# CENTENNIAL HIGH SCHOOL AQUATIC CENTER

## Initial Study and Mitigated Negative Declaration (IS/MND)

*CEQA Analysis Prepared for:*

**Corona-Norco Unified School District**
2820 Clark Avenue
Norco, CA 92860
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*Prepared by:*

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**October 2023**

Project No. 7218

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## PROJECT INFORMATION SHEET

| | |
|---|---|
| **1. Project Title** | Centennial High School Aquatic Center |
| **2. CEQA Lead Agency** | **Corona-Norco Unified School District**<br>2820 Clark Avenue<br>Norco, CA 92860<br>Attn: Jacquelyn Roberts<br>Construction Director – Facilities Division<br>E: Jacquelyn.Roberts@cnusd.k12.ca.us |
| **3. Project Applicant** | **Corona-Norco Unified School District**<br>2820 Clark Avenue<br>Norco, CA 92860<br>Attn: Jacquelyn Roberts<br>Construction Director – Facilities Division |
| **4. Project Location** | 1820 Rimpau Avenue<br>Corona, CA 92881 |
| **5. Assessor's Parcel Numbers** | APN 107-140-032 |
| **6. Project Site General Plan Designation(s)** | S - School |
| **7. Project Site Zoning Designation(s)** | S - School |
| **8. Surrounding Land Uses and Setting** | The school campus is surrounded by a mix of residential and commercial uses, including a mobile home park to the immediate north of the proposed project location. The proposed project is surrounded by other school campus facilities to the west, south and east. |
| **9. Description of Project** | The project would demolish the existing Aquatic Center, which was built in 1993, and associated infrastructure and utilities. The project would construct a 50-meter athletic pool, oriented north-south. Two new buildings would be constructed – Building A would house locker rooms, offices, restrooms, pool equipment and storage and Building B would include concessions and restrooms as well as covered bleachers. |
| **11. Selected Agencies whose Approval is Required** | Corona-Norco Unified School District |
| **12. Have California Native American tribes traditionally and culturally affiliated with the project area** | Letters were sent by the Corona-Norco Unified School District (the Lead Agency) on August 9, 2023 to local Native American tribes asking if they |

| | |
|---|---|
| **requested consultation pursuant to Public Resources Code § 21080.3.1? If so, has consultation begun?** | wished to participate in AB 52 consultation concerning the proposed project in the City of Corona. Tribes had up to 30 days in which to respond to notification of the project. For the proposed project, those tribe(s) that requested consultation were contacted by the District per Public Resources Code § 21074. The consultation status will be updated following the conclusion of AB 52 consultation between the District and the tribes. |
| **13. Other Public Agencies** | Agencies that will review the proposed project include the following:<br>• California Office of Planning and Research – State Clearinghouse<br>• California Department of Education<br>• Native American Heritage Commission<br>• California Department of Conservation<br>• California Department of Fish and Wildlife<br>• California Department of Health Services<br>• Office of Emergency Services<br>• California Water Resources Control Board<br>• California Department of Toxic Substance Control<br>• Riverside County Fire Authority<br>• City of Corona Development Services Department<br>• City of Corona Police Department<br>• City of Corona Utilities Division – Water Department<br>• Riverside County Health Care Agency |

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## ACRONYMS AND ABBREVIATIONS

| Acronym/ Abbreviation | Term |
|---|---|
| AAQS | ambient air quality standards |
| AB 32 | California Global Warming Solutions Act of 2006 (Assembly Bill 32) |
| AB 52 | Assembly Bill 52 |
| ACM(s) | Asbestos-Containing Material(s) |
| ADA | Americans with Disabilities Act |
| AFY | Acre-feet per year |
| AIA | Airport Influence Area |
| AMI | Area Median Income |
| amsl | above mean sea level |
| APE | Area of Potential Effect |
| APN | Assessor's Parcel Number |
| AQA | Air Quality Analysis |
| AQMP | Air Quality Management Plan |
| AR4 | Fourth Assessment Report |
| ARB | California Air Resources Board |
| BAU | business as usual |
| BIOS | Biogeographic Information and Observation System |
| BMPs | Best Management Practices |
| CAAQS | California Ambient Air Quality Standards |
| CalEEMod | California Emissions Estimator Model |
| CAL FIRE | California Department of Forestry and Fire Protection |
| CAL Green | California Green Building Standards |
| Caltrans | California Department of Transportation |
| CAO(s) | Cleanup and Abatement Order(s) |
| CAPCOA | California Air Pollution Control Officers Association |
| CASGEM | California Statewide Groundwater Elevation Monitoring |
| CAT | Climate Action Team |
| CBC | California Building Code |
| CCAA | California Clean Air Act |
| CCR | California Code of Regulations |
| CDO(s) | Cease and Desist Order(s) |
| CDFW | California Department of Fish and Wildlife |
| CEQA | California Environmental Quality Act |
| CERCLA | Comprehensive Environmental Response, Compensation, and Liability Act |
| CESA | California Endangered Species Act |
| CFD | Corona Fire Department |
| CPD | Corona Police Department |
| CFGC | California Fish and Game Code |
| cfs | cubic feet per second |
| CGS | California Geological Survey |
| $CH_4$ | methane |
| CHRIS | California Historic Resources Inventory System |
| City | City of Corona |

| Acronym/ Abbreviation | Term |
|---|---|
| CIWMP | Countywide Integrated Waste Management Plan |
| CMP | Congestion Management Program |
| CMP | corrugated metal pipe |
| CMPHS | CMP Highway System |
| CNEL | Community Noise Equivalent Level |
| CNPS | California Native Plant Society |
| CNUSD | Corona-Norco Unified School District |
| CO | carbon monoxide |
| $CO_2$ | carbon dioxide |
| $CO_2e$ | carbon dioxide equivalent |
| CPL | Corona Public Library |
| CRC | California Residential Code |
| CWA | Clean Water Act |
| DAMP | Drainage Area Management Plan |
| dB | decibel |
| dBA | A-weighted decibel scale |
| DOC | California Department of Conservation |
| DOSH | California Division of Safety and Health |
| DTSC | Department of Toxic Substances Control |
| du/ac | Dwellling units per acre |
| DWP | Corona City Department of Water and Power |
| DWR | Department of Water Resources |
| EIC | Eastern Information Center |
| EIR | Environmental Impact Report |
| EMS | Emergency Medical Services |
| EO | Executive Order |
| EPA | Environmental Protection Agency |
| ESA | Endangered Species Act |
| ESA | Environmental Site Assessment |
| ESRL | Earth System Research Laboratory |
| EV | electric vehicle |
| EVCS | electric vehicle charging station |
| °F | degrees Fahrenheit |
| FAR | floor area ratio |
| FEMA | Federal Emergency Management Agency |
| FIRM | Flood Insurance Rate Map |
| FHSZ | Fire Hazard Severity Zones |
| FMMP | Farmland Mapping and Monitoring Program |
| FTA | Federal Transit Administration |
| GHG | greenhouse gases |
| GIS | Geographic Information System |
| GPCD | gallons per capita per day |
| gpd | gallons per day |
| GWP | global warming potential |
| HABS | Historic American Building Survey |

| Acronym/ Abbreviation | Term |
|---|---|
| HCP | Habitat Conservation Plan |
| HFCs | hydroflourocarbons |
| HU | Hydrologic Unit |
| HVAC | heating, ventiliation and air conditioning |
| IPCC | Intergovernmental Panel on Climate Change |
| ISA | International Society of Arboriculture |
| IS/MND | Initial Study/Mitigated Negative Declaration |
| ITE | Institute of Transportation Engineers |
| $L_{90}$ | noise level that is exceeded 90% of the time |
| $L_{eq}$ | equivalent noise level |
| LBP | Lead-Based Paint |
| LID | Low Impact Development |
| $L_{max}$ | root mean square maximum noise level |
| LOS | Level of Service |
| LRA | Local Responsibility Area |
| LSTs | Localized Significance Thresholds |
| LUST | Leaking Underground Storage Tank |
| MBTA | Migratory Bird Treaty Act |
| mgd | million gallons per day |
| MLD | Most Likely Descendant |
| MM(s) | mitigation measure(s) |
| MMRP | Mitigation Monitoring and Reporting Program |
| $MMTCO_2e$ | million metric tons of CO2e |
| MND | Mitigated Negative Declaration |
| MPAH | Master Plan of Arterial Highways |
| MRZ | Mineral Resource Zone |
| MS4 | Municipal Separate Storm Sewer permit |
| MT | Metric tons |
| MWD | Metropolitan Water District of Southern California |
| $N_2O$ | nitrous oxide |
| NAAQS | National Ambient Air Quality Standards |
| NAHC | Native American Heritage Commission |
| National Core | National Community Renaissance |
| NASA | National Aeronautics and Space Administration |
| NCCP | Natural Communities Conservation Plan |
| ND | Negative Declaration |
| NO | nitric oxide |
| $NO_x$ | nitrogen oxides |
| $NO_2$ | nitrogen dioxide |
| NPDES | National Pollutant Discharge Elimination System |
| $O_3$ | Ozone |
| OPR | Governor's Office of Planning and Research |
| OSHA | Occupational Safety and Health Administration |
| Pb | lead |
| PCB | polychlorinated biphenyl |

| Acronym/ Abbreviation | Term |
|---|---|
| PEA | Preliminary Endangerment Assessment |
| PFCs | perfluorocarbons |
| PM | particulate matter |
| $PM_{10}$ | respirable particulate matter |
| $PM_{2.5}$ | fine particulate matter |
| POP | Placentia Operations Plan |
| PPD | Placentia Police Department |
| ppm | parts per million |
| PPV | peak particle velocity |
| R-1 | Single-family Residential zoning designation |
| R-3 | High Density Residential zoning designation |
| RCRA | Resource Conservation and Recovery Act |
| RECs | Recognized Environmental Condition(s) |
| R-G | Medium Density Residential zoning designation |
| RHNA | Regional Housing Needs Allocation |
| RMS | root mean square |
| ROG | Reactive organic gases |
| ROW | Right-of-way |
| RPS | Renewables Portfolio Standard |
| RWQCB | Regional Water Quality Control Board |
| RivCo | Riverside County |
| § | section |
| SB | Senate Bill |
| SCAB | South Coast Air Basin |
| SCAG | Southern California Association of Governments |
| SCAQMD | South Coast Air Quality Management District |
| SCE | Southern California Edison Company |
| $SF_6$ | sulfur hexafluoride |
| SIP | State Implementation Plan |
| SLF | Sacred Lands File |
| SMARA | Surface Mining and Reclamation Act |
| $SO_2$ | sulfur dioxide |
| SoCalGas | Southern California Gas Company |
| SR-55 | State Route 55 |
| SR-91 | State Route 91 |
| SRA | State Responsibility Area |
| SRAs | source receptor areas |
| SRRE | Source Reduction and Recycling Element |
| STIP | Statewide Transportation Improvement Program |
| SUSMP | Standard Urban Stormwater Mitigation Plan |
| SWPPP | Stormwater Pollution Prevention Plan |
| SWRCB | State Water Resources Control Board |
| TAPs | Transportation Assembly Points |
| TCRs | Tribal Cultural Resources |
| TMP | Traffic Management Plan |

| Acronym/ Abbreviation | Term |
|---|---|
| UFPO | Urban Forest Protection Ordinance |
| UEI | UltraSystems Environmental, Inc. |
| U.S. | United States |
| USDA | United States Department of Agriculture |
| USEPA | United States Environmental Protection Agency |
| VdB | vibration decibels |
| VCP | vitrified clay pipe |
| VHFHSZ(s) | very high fire hazard severity zone(s) |
| VMT | vehicle miles traveled |
| VOC | volatile organic compound |
| WEG | wind erodibility group |
| WQMP | Water Quality Management Plan |
| WM | Waste Management |
| WMWD | Western Municipal Water District |
| WRI | World Resources Institute |
| WOUS | Waters of the United States |
| ybp | years before present |

# 1.0 INTRODUCTION

## 1.1 Proposed Project

The Corona-Norco Unified School District (District) is processing a request to implement a series of discretionary actions that would ultimately allow for the improvement and modernization of the existing pool facility at Centennial High School, located at 1820 Rimpau Avenue in Corona, California. The proposed project would facilitate and enhance the functionality of the pool facility located on the school's 39.51-acre campus. The project site is located at the north edge of campus, west of a parking area and east of the school's football field.

### 1.1.1 Project Components

The proposed project would consist of:

**Proposed Buildings**

The construction of two new buildings:

- Building A would house locker rooms, offices, restrooms, pool equipment, and storage in a single-story, 6,623-square-foot building on the east side of the site.
- Building B, on the west side of the site, would include concessions and restrooms in a single-story, 991-square-foot structure,
- Additionally, covered bleachers with a seating capacity of 281 would be constructed.

**Open Space and Recreational Amenities**

- A new 50-meter athletic pool, oriented north-south
- A scoreboard and Wall of Fame near the south end of the pool.
- A high wall at the north end of the pool (screening from the adjacent street)

**Parking**

- Development of the project may require a minor reduction in the number of existing parking spaces in the lot to the immediate east of the project.

**Utilities**

- The proposed project does not include utility improvements, except for a new fire water line and the possible relocation of a storm drain.

**Landscaping**

- The proposed project does not include major landscape features. Existing planters in the current facility will be removed. There is the potential for a small amount of landscaping in this project but it will be very minimal.

### 1.1.2 Estimated Construction Schedule

Project construction would begin in December 2023 and end in February 2025. Construction activities for the proposed pool project are anticipated to last approximately 307 work days. Refer to **Section 3.0** for details. A complete construction schedule, from pre-construction through completion, can be found in **Appendix A1**Lead Agencies – Environmental Review Implementation

The Corona-Norco Unified School District (CNUSD) is the Lead Agency for the proposed project. Pursuant to the California Environmental Quality Act (CEQA) and its implementing regulations,[1] the Lead Agency has the principal responsibility for implementing and approving a project that may have a significant effect on the environment.

## 1.2 CEQA Overview

### 1.2.1 Purpose of CEQA

All discretionary projects within California are required to undergo environmental review under CEQA. A Project is defined in CEQA Guidelines § 15378 as the whole of the action having the potential to result in a direct physical change or a reasonably foreseeable indirect change to the environment and is any of the following:

- An activity directly undertaken by any public agency including but not limited to public works construction and related activities, clearing or grading of land, improvements to existing public structures, enactment and amendment of zoning ordinances, and the adoption and amendment of local General Plans or elements.

- An activity undertaken by a person which is supported in whole or in part through public agency contracts, grants, subsidies, loans, or other forms of assistance from one or more public agencies.

- An activity involving the issuance to a person of a lease, permit, license, certificate, or other entitlement for use by one or more public agencies.

CEQA Guidelines § 15002 lists the basic purposes of CEQA as follows:

- Inform governmental decision makers and the public about the potential, significant environmental effects of proposed activities.

- Identify the ways that environmental damage can be avoided or significantly reduced.

- Prevent significant, avoidable damage to the environment by requiring changes in projects through the use of alternatives or mitigation measures (MMs) when the governmental agency finds the changes to be feasible.

- Disclose to the public the reasons why a governmental agency approved the project in the manner the agency chose if significant environmental effects are involved.

1 Public Resources Code §§ 21000 - 21177 and California Code of Regulations Title 14, Division 6, Chapter 3.

### 1.2.2 Authority to Mitigate under CEQA

CEQA establishes a duty for public agencies to avoid or minimize environmental damage where feasible. Under CEQA Guidelines § 15041 a Lead Agency for a project has the authority to require feasible changes in any or all activities involved in the project in order to substantially lessen or avoid significant effects on the environment, consistent with applicable constitutional requirements such as the "nexus"[2] and "rough proportionality"[3] standards.

CEQA allows a Lead Agency to approve a project even though the project would cause a significant effect on the environment if the agency makes a fully informed and publicly disclosed decision that there is no feasible way to lessen or avoid the significant effect. In such cases, the Lead Agency must specifically identify expected benefits and other overriding considerations from the project that outweigh the policy of reducing or avoiding significant environmental impacts of the project.

## 1.3 Purpose of Initial Study

The CEQA process begins with a public agency making a determination as to whether the project is subject to CEQA at all. If the project is exempt, the process does not need to proceed any further. If the project is not exempt, the Lead Agency takes the second step and conducts an Initial Study to determine whether the project may have a significant effect on the environment.

The purposes of an Initial Study as listed in § 15063(c) of the CEQA Guidelines are to:

- Provide the Lead Agency with information necessary to decide if an Environmental Impact Report (EIR), Negative Declaration (ND), or Mitigated Negative Declaration (MND) should be prepared.
- Enable a Lead Agency to modify a project to mitigate adverse impacts before an EIR is prepared, thereby enabling the project to qualify for an ND or MND.
- Assist in the preparation of an EIR, if required, by focusing the EIR on adverse effects determined to be significant, identifying the adverse effects determined not to be significant, explaining the reasons for determining that potentially significant adverse effects would not be significant and identifying whether a program EIR or other process, can be used to analyze adverse environmental effects of the project.
- Facilitate an environmental assessment early during project design.
- Provide documentation in the ND or MND that a project would not have a significant effect on the environment.
- Eliminate unnecessary EIRs.
- Determine if a previously prepared EIR could be used for the Project.

2 A nexus (i.e., connection) must be established between the mitigation measure and a legitimate governmental interest.

3 The mitigation measure must be "roughly proportional" to the impacts of the Project.

In cases where no potentially significant impacts are identified, the Lead Agency may issue an ND, and no MMs would be needed. Where potentially significant impacts are identified, the Lead Agency may determine that MMs would adequately reduce these impacts to less than significant levels. The Lead Agency would then prepare an MND for the proposed project. If the Lead Agency determines that individual or cumulative effects of the proposed project would cause a significant adverse environmental effect that cannot be mitigated to less than significant levels, then the Lead Agency would require an EIR to further analyze these impacts.

## 1.4 Review and Comment by Other Agencies

Other public agencies are provided the opportunity to review and comment on the IS/MND. Each of these agencies is described briefly below.

- A Responsible Agency (14 CCR § 15381) is a public agency, other than the Lead Agency, that has discretionary approval power over the Project, such as permit issuance or plan approval authority.

- A Trustee Agency[4] (14 CCR § 15386) is a state agency having jurisdiction by law over natural resources affected by a project that is held in trust for the people of the State of California.

- Agencies with Jurisdiction by Law (14 CCR § 15366) are any public agencies who have the authority (1) to grant a permit or other entitlement for use; (2) to provide funding for the project in question; or (3) to exercise authority over resources which may be affected by the project. Furthermore, a city or county will have jurisdiction by law with respect to a project when the city or county having primary jurisdiction over the area involved is: (1) the site of the project; (2) the area in which the major environmental effects will occur; and/or (3) the area in which reside those citizens most directly concerned by any such environmental effects.

## 1.5 Impact Terminology

The following terminology is used to describe the level of significance of potential impacts:

- A finding of ***no impact*** is appropriate if the analysis concludes that the project would not affect the particular environmental threshold in any way.
- An impact is considered ***less than significant*** if the analysis concludes that the project would cause no substantial adverse change to the environment and requires no mitigation.
- An impact is considered ***less than significant with mitigation incorporated*** if the analysis concludes that the project would cause no substantial adverse change to the environment with the inclusion of environmental commitments, or other enforceable measures, that would be adopted by the lead agency.
- An impact is considered potentially significant if the analysis concludes that the project could have a substantial adverse effect on the environment.

An EIR is required if an impact is identified as ***potentially significant***.

4 The four Trustee Agencies in California listed in CEQA Guidelines § 15386 are California Department of Fish and Wildlife, State Lands Commission, State Department of Parks and Recreation, and University of California.

## 1.6 Organization of Initial Study

This document is organized to satisfy CEQA Guidelines § 15063(d), and includes the following sections:

- **Section 1.0 - Introduction**, which identifies the purpose and scope of the IS/MND.
- **Section 2.0 - Environmental Setting**, which describes the location, existing site conditions, land uses, zoning designations, topography, and vegetation associated with the project site and surroundings.
- **Section 3.0 - Project Description**, which provides an overview of the project, a description of the proposed development, project phasing during construction, and discretionary actions for project approval.
- **Section 4.0 - Environmental Checklist**, which presents checklist responses for each resource topic to identify and assess impacts associated with the proposed project, and proposes MMs, as needed, to reduce potential environmental impacts to less than significant.
- **Section 5.0 - References**, which includes a list of documents cited in the IS/MND.
- **Section 6.0 - List of Preparers**, which identifies the primary authors and technical experts that prepared the IS/MND.

Technical studies and other documents, which include supporting information or analyses used to prepare the IS/MND, are included in the following appendices:

- Appendix A Project Plans
- Appendix B1 CalEEMod Input and Results for Air Quality Analysis
- Appendix B2 CalEEMod Input and Results for Greenhouse Gas Emissions Analysis
- Appendix C1 Biological Resources Evaluation
- Appendix D1 Cultural Resources Report
- Appendix D2 Paleontological Records Search
- Appendix E Geotechnical Report
- Appendix F1 Phase I Environmental Site Assessment
- Appendix F2 ACM and LBP Report
- Appendix F3 Preliminary Endangerment Assessment
- Appendix H Noise Data
- Appendix I VMT Memo

## 1.7 Findings from the Initial Study

### 1.7.1 No Impact or Impacts Considered Less than Significant

Based on IS findings, the project would have no impact or a less than significant impact on the following environmental categories listed in Appendix G of the CEQA Guidelines.

- Aesthetics
- Agriculture and Forestry Resources

- Air Quality
- Energy
- Greenhouse Gas Emissions
- Hazards and Hazardous Materials
- Hydrology and Water Quality
- Land Use and Planning
- Mineral Resources
- Population and Housing
- Public Services
- Recreation
- Transportation and Traffic
- Utilities and Service Systems
- Wildfire

### 1.7.2 Impacts Considered Less than Significant with Mitigation Measures

Based on IS findings, the project would have a less than significant impact on the following environmental categories listed in Appendix G of the CEQA Guidelines when proposed MMs are implemented.

- Biological Resources
- Cultural Resources
- Geology and Soils
- Noise
- Mandatory Findings of Significance
- Tribal Cultural Resources

# 2.0 ENVIRONMENTAL SETTING

## 2.1 Project Location

The proposed Centennial High School Aquatic Center Project is located at 1820 Rimpau Avenue in the City of Corona, California. Refer to **Figure 2.1-1**, which shows the project's location in a regional context. Local surface streets adjacent to the site include Rimpau Avenue to the east, Ridgewood Drive to the south, and Fullerton Avenue to the west. **Figure 2.1-2** depicts an aerial photo of the project site and the surrounding land.

## 2.2 Project Setting

The Centennial High School campus, of which the project site is a part, is comprised of one parcel, APN 107-140-032. Centennial High School, a traditional comprehensive high school, opened in 1989; enrollment in the 2022-23 school year was 3,037 (CDE, 2023). The campus is approximately 40 acres in area. See **Figure 2.2-1**, which depicts the topography of the site, and surrounding area. Topography within the project site is relatively flat (Google Earth, 2023). Site photographs are provided in **Figure 2.2-2**.

### 2.2.1 Land Use and Zoning

The land use, zoning, and specific plan designations of the project site and its immediate vicinity are listed in **Table 2.2-1**. The project site has a General Plan land use designation of Schools (S) and a zoning designation of Schools (City of Corona, 2014a; City of Corona, 2014b).

**Table 2.2-1**
**SUMMARY OF EXISTING LAND USE, ZONING AND SPECIFIC PLAN DESIGNATIONS**

| Location | General Plan Designation | Zoning Designation | Existing Development |
|---|---|---|---|
| Project Site | Schools (S) | Schools | Centennial High School |
| North | Medium Density Residential 6-15 du/ac (MDR) | High Density Residential | A mix of single- and multi-family homes |
| South | Low Density Residential 3-6 du/ac (LDR) | Single Family Residential | Single-family homes |
| East | Light Industrial (LI) and High Density Residential (HDR) | Light Industrial and High Density Residential | Industrial uses and multi-family homes |
| West | Office Professional (OP) | Mixed Use and Commercial | Commercial uses and multi-family homes |

Source: City of Corona, 2014a; City of Corona, 2014b; Google Earth Pro, 2023

**Figure 2.2-1**
**REGIONAL LOCATION**

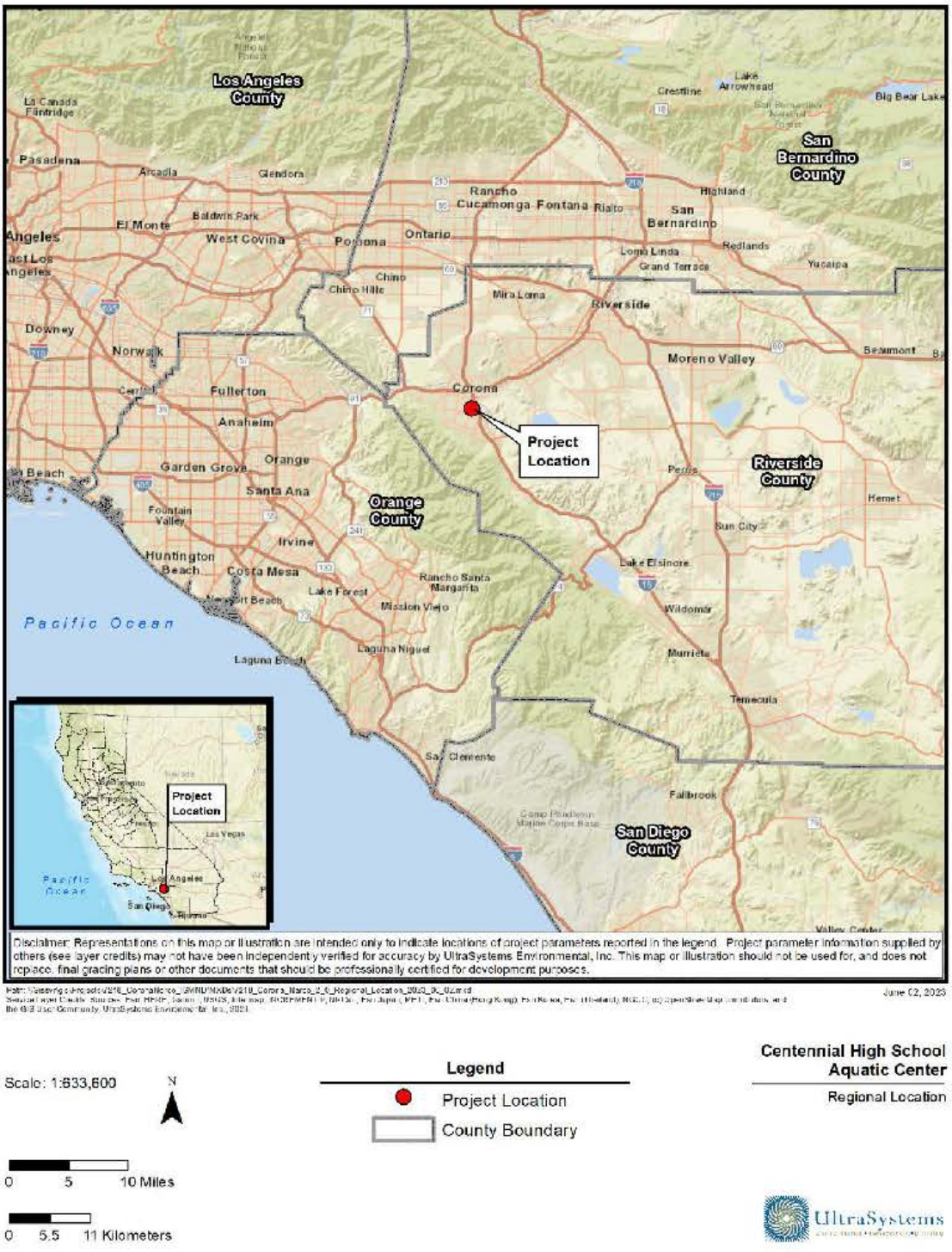


**Figure 2.2-2**
**PROJECT LOCATION**

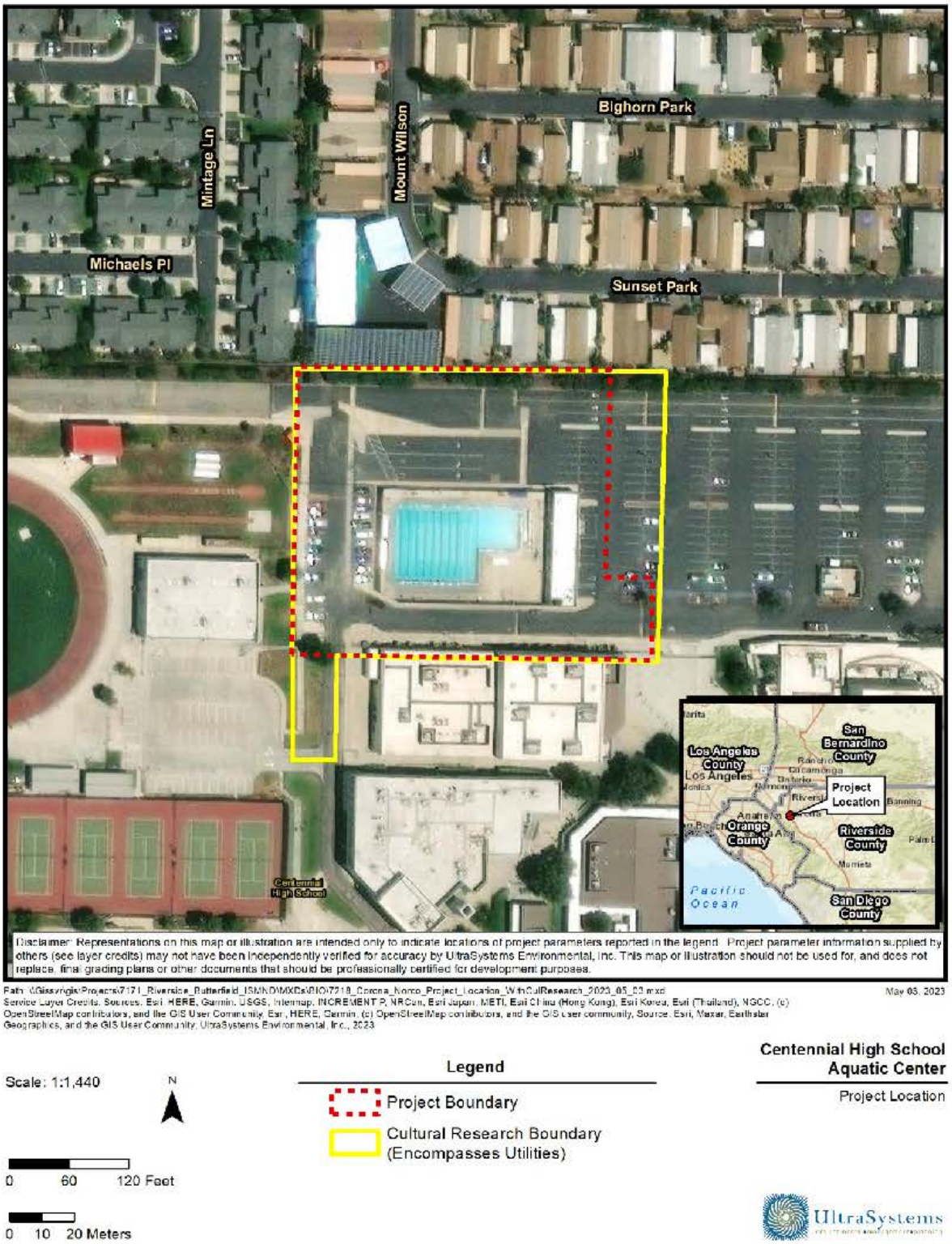


**Figure 2.2-3**
**TOPOGRAPHIC MAP**

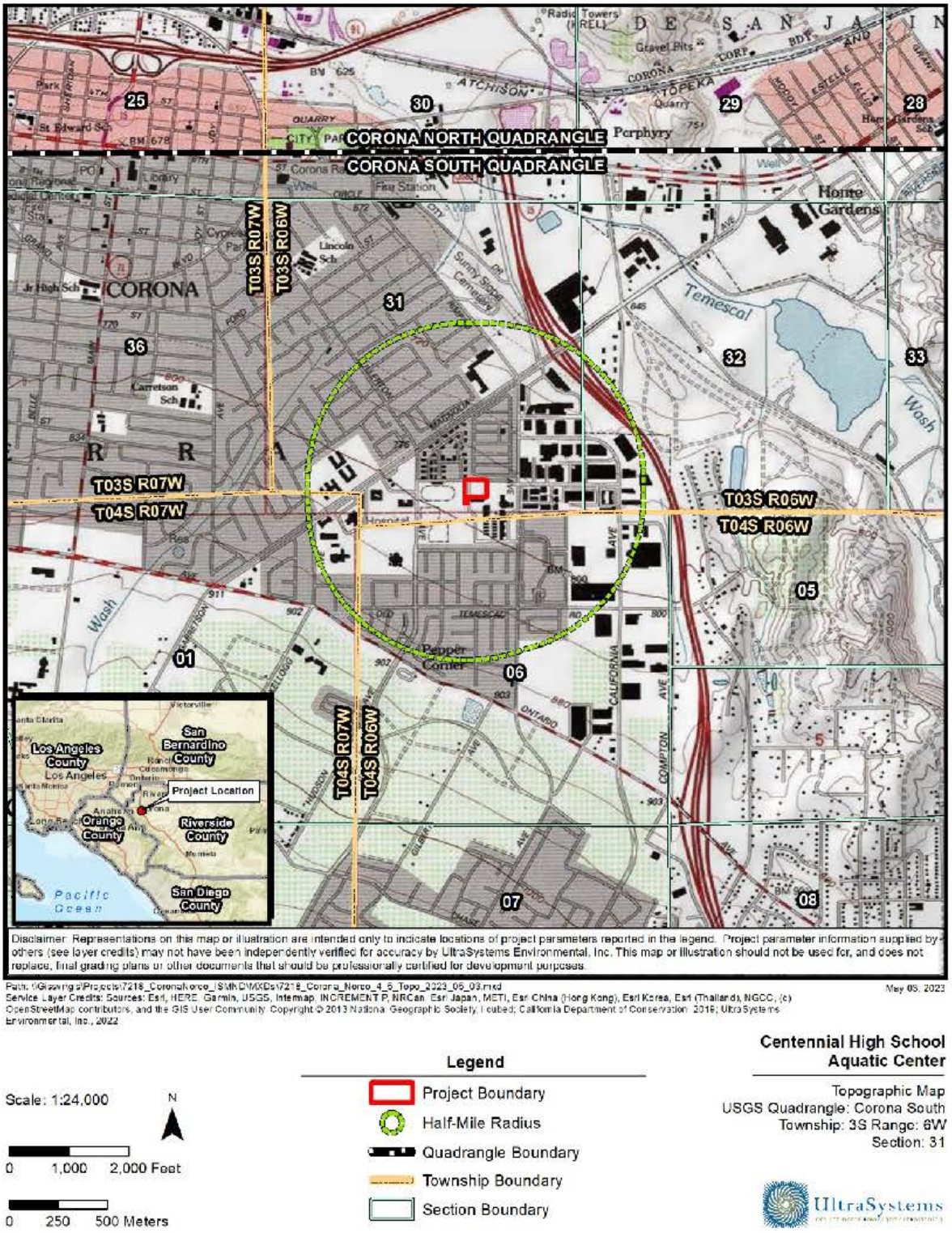


**Figure 2.2-4**
**PROJECT SITE PHOTOGRAPHS**



**Photo 1: View of the west side of the project site.**




**Photo 2: View of the east side of the project site.**



**Photo 3: View of the southern portion of the project site.**



**Photo 4: View of the northern portion of the project site.**

## 2.3 Existing Characteristics of the Site

### 2.3.1 Climate and Air Quality

The project site is located within the South Coast Air Basin (SCAB), a 6,600-square-mile area encompassing the non-desert portions of Los Angeles, Riverside, and San Bernardino counties and all of Orange County. A persistent high-pressure area that commonly resides over the eastern Pacific Ocean largely dominates regional meteorology. The distinctive climate of this area is determined primarily by its terrain and geographic location. Local climate is characterized by warm summers, mild winters, infrequent rainfall, moderate daytime onshore breezes, and moderate humidity. Ozone ($O_3$) and pollutant concentrations tend to be lower along the coast, where the onshore breeze disperses pollutants toward the inland valleys of the SCAB and adjacent deserts. However, as a whole, the SCAB fails to meet National Ambient Air Quality Standards (NAAQS) for $O_3$ and fine particulate matter ($PM_{2.5}$), and is classified as a "nonattainment area" for those pollutants (SCAQMD, 2022b).

### 2.3.2 Geology and Soils

Topography within the project site is relatively flat. The existing surface elevation at the proposed project site ranges from approximately 787 feet to 790 feet above mean sea level. Surface topography is a northeast slope of approximately 3.5% grade. The project site is not within an Alquist-Priolo Earthquake Fault Zone, liquefaction zone, or landslide zone (DOC, 2023a).

### 2.3.3 Hydrology

The project site is fully developed with an existing swimming pool, swimming pool building, and parking lot. Surface drainage by sheet flow is generally to the south. The project is within FEMA Map 06065C1356G (08/28/2008). The site is entirely within Zone X, which is an area of minimal flood hazard (FEMA, 2008).

### 2.3.4 Biology

The project site is located in an urbanized area, which provides low habitat value for special-status plant and wildlife species. The project site contains ornamental landscaping. Further biological resource information is detailed in **Section 4.4**, Biological Resources.

### 2.3.5 Public Services

The City is served by a full range of public services. Fire services for the City of Corona is provided by the Corona Fire Department (CFD (City of Corona, 2023a); police services are provided by the Corona Police Department (City of Corona 2023b); and school services are provided by the Corona-Norco Unified School District (CNUSD) (CNUSD, 2023).

### 2.3.6 Utilities

The Corona Department of Water and Power (DWP) provides sewer, sanitation, and water to the project site; Waste Management Inc. (WMI) provides solid waste collection services to the project site; Southern California Edison provides electricity to the project site; and Southern California Gas Company provides natural gas to the project site (Placeworks, 2019, p. 4-6).

# 3.0 PROJECT DESCRIPTION

## 3.1 Project Overview

The Corona-Norco Unified School District (District) proposes the improvement and modernization of the existing pool facility located at Centennial High School in Corona, California. The proposed project would facilitate and enhance the functionality of the pool facility located on the school campus.

Centennial High School has a total staff count of 229 and serves a 2022-2023 student population of 3,037 in grades 9 through 12 (CDE, 2023). The project would not increase student capacity at the school and would not involve temporary relocation of students or staff during construction. The school was opened in 1989. The campus covers an area of 39.51 acres.

The campus has 14 permanent buildings and 38 portable buildings. In addition to classroom buildings and administrative offices, this high school has the following facilities:

- Football field
- Track and field facilities
- Outdoor pool (Fall and Winter water polo, Spring swimming)
- 6 tennis courts
- 2 baseball fields, 2 softball fields, 2 soccer fields
- 2 outdoor basketball half courts
- Wrestling room
- Weight-lifting room
- Gymnasium and performing arts center which includes a drama, choir and band room.
- Dance room
- Library/media center
- TV Studio

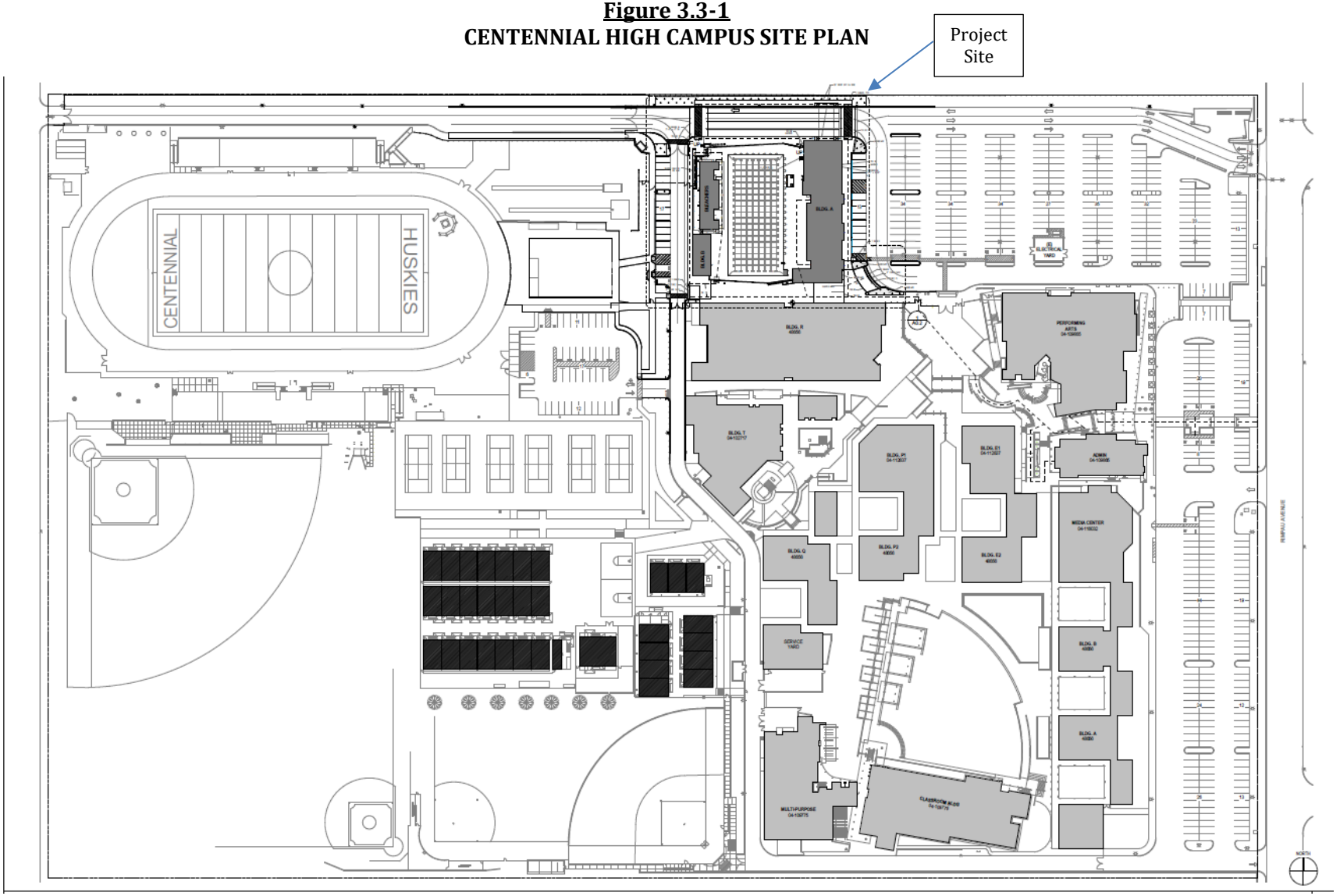
## 3.2 Project Location

The City of Corona is an incorporated city in Riverside County, California. Centennial High School is located at 1820 Rimpau Avenue in Corona (APN 107-140-032). Regional access to the school is via the Interstate 15 (I-15) freeway via Magnolia Avenue and Rimpau Avenue. The school is located in an urban area and is surrounded by a mix of commercial and residential uses, The project site is located at the north edge of campus, west of a parking area and east of the school's football field.

Refer to **Section 2.0** for a detailed description of the project's existing environmental setting.

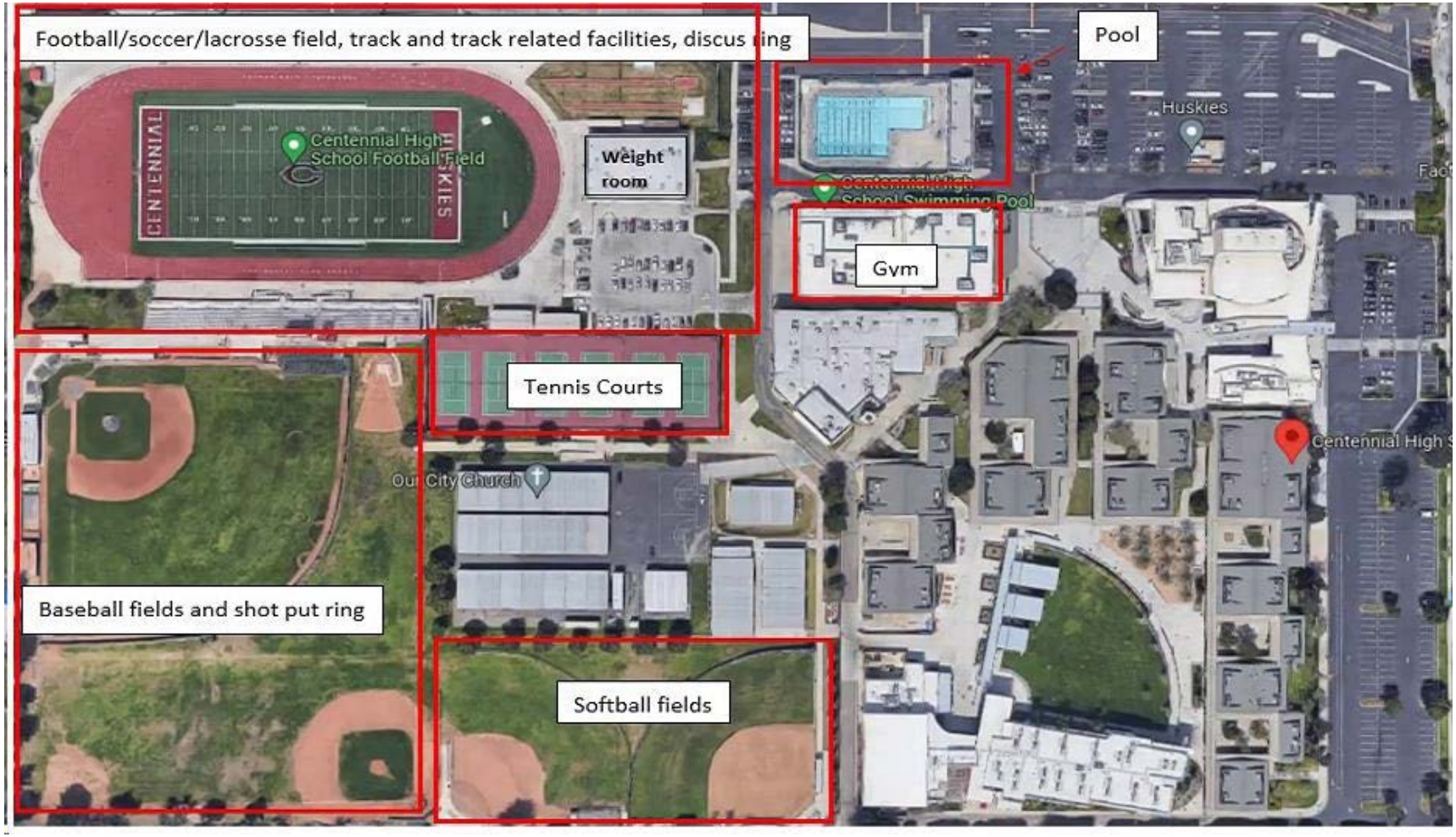
**Figure 3.3-1** depicts the project site location and full campus site plan for Centennial High School. **Figure 3.3-2** identifies the locations of various athletic facilities, including the existing pool that will be demolished as part of the proposed project.

**Figure 3.3-1**
**CENTENNIAL HIGH CAMPUS SITE PLAN**




**Source**: PBK Architects, 100% Design Development Plans, February 2023

**Figure 3.3-2**
**ATHLETIC FACILITY LOCATIONS ON CENTENNIAL HIGH SCHOOL CAMPUS**




Source: Centennial High School

## 3.3 Proposed Project

### 3.3.1 Demolition

The project would demolish the existing Aquatic Center, which was built in 1993, and associated infrastructure and utilities. In addition to demolition of the pool and foundations, this phase of the project includes demolition of existing planters, concrete pavement, asphalt pavement, concrete curb, concrete curb and gutter, retaining wall and foundations, chain link fence and footings, concrete swale, existing 2,808 square foot accessory building and foundations, existing catch basin, and existing light pole and concrete foundation. Existing gas lines will also be removed. **Figure 3.3-3** shows the layout of the existing pool facility and the demolition plan.

### 3.3.2 New Athletic Pool

The District proposes to replace the existing pool facility that is oriented east-west. The project would construct a 50-meter athletic pool, oriented north-south. Overall surface area of the pool would be 12,380 square feet, with a total perimeter of 490 feet and pool depth between 3.50 feet and 8.25 feet. The pool volume would be 689,776 gallons, with a six-hour turnover rate of 1,916 gallons per minute.

The north-south length of the pool would be 50 meters (8 lanes, Olympic size) and the east-west width of the pool would be 25 yards (17 lanes, high school competition). The pool can accommodate two water polo courts.

A scoreboard and Wall of Fame will be placed near the south end of the pool, with a high wall at the north end, screening the view of the pool from the adjacent street area which is used for drop off.

### 3.3.3 New Buildings

Two new buildings would be constructed – Building A would house locker rooms, offices, restrooms, pool equipment and storage in a single-story, 6,623 square foot building on the east side of the site, while Building B, on the west side of the site, would include concessions and restrooms in a single-story, 991 square foot structure, as well as covered bleachers with a seating capacity of 281.

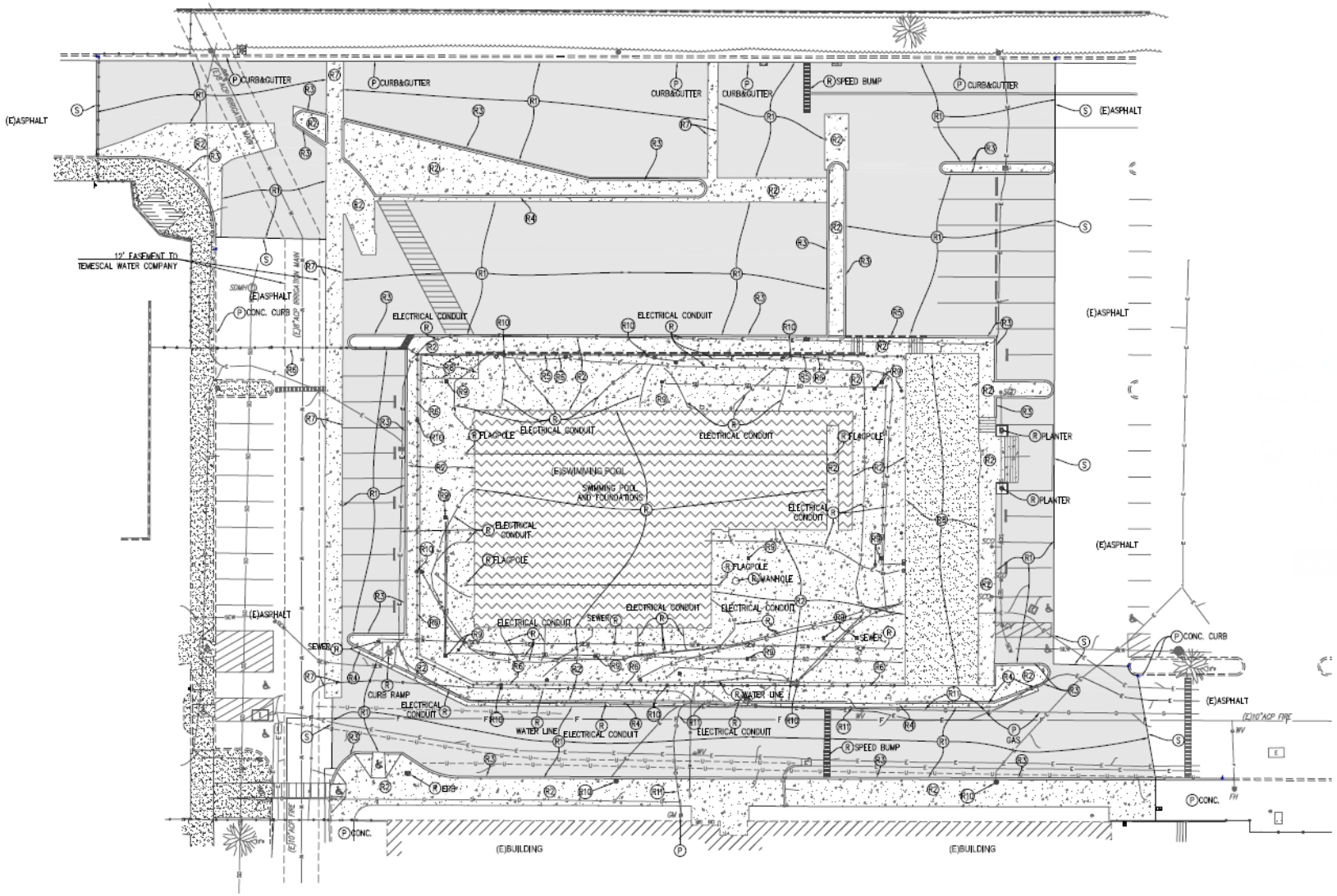
**Figure 3.3-4** shows the layout of the proposed project, including the 50-meter pool and the other project components.

Overall floorplans of the two buildings are shown in **Figure 3.3-5. Figure 3.3-6** shows an aerial view rendering of the project and **Figure 3.3-7** shows the locker room floor plan in Building A.

Elevations and renderings of the overall project and individual buildings are shown in **Figures 3.3-8** to **3.3-11**.

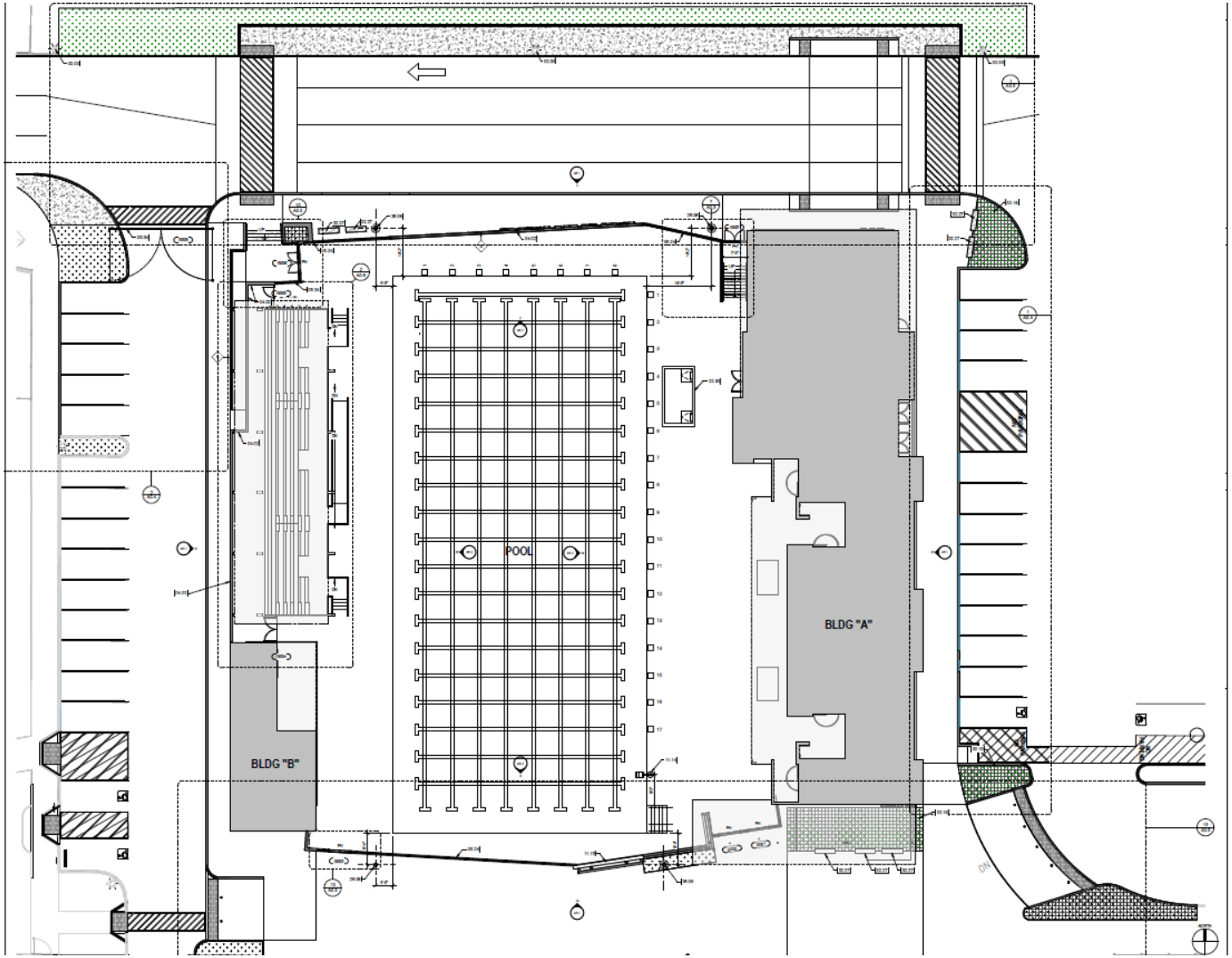
A complete set of plans and drawings for the proposed facility can be found in **Appendix A2.**

**Figure 3.3-3**
**CURRENT SITE LAYOUT AND DEMOLITION PLAN**



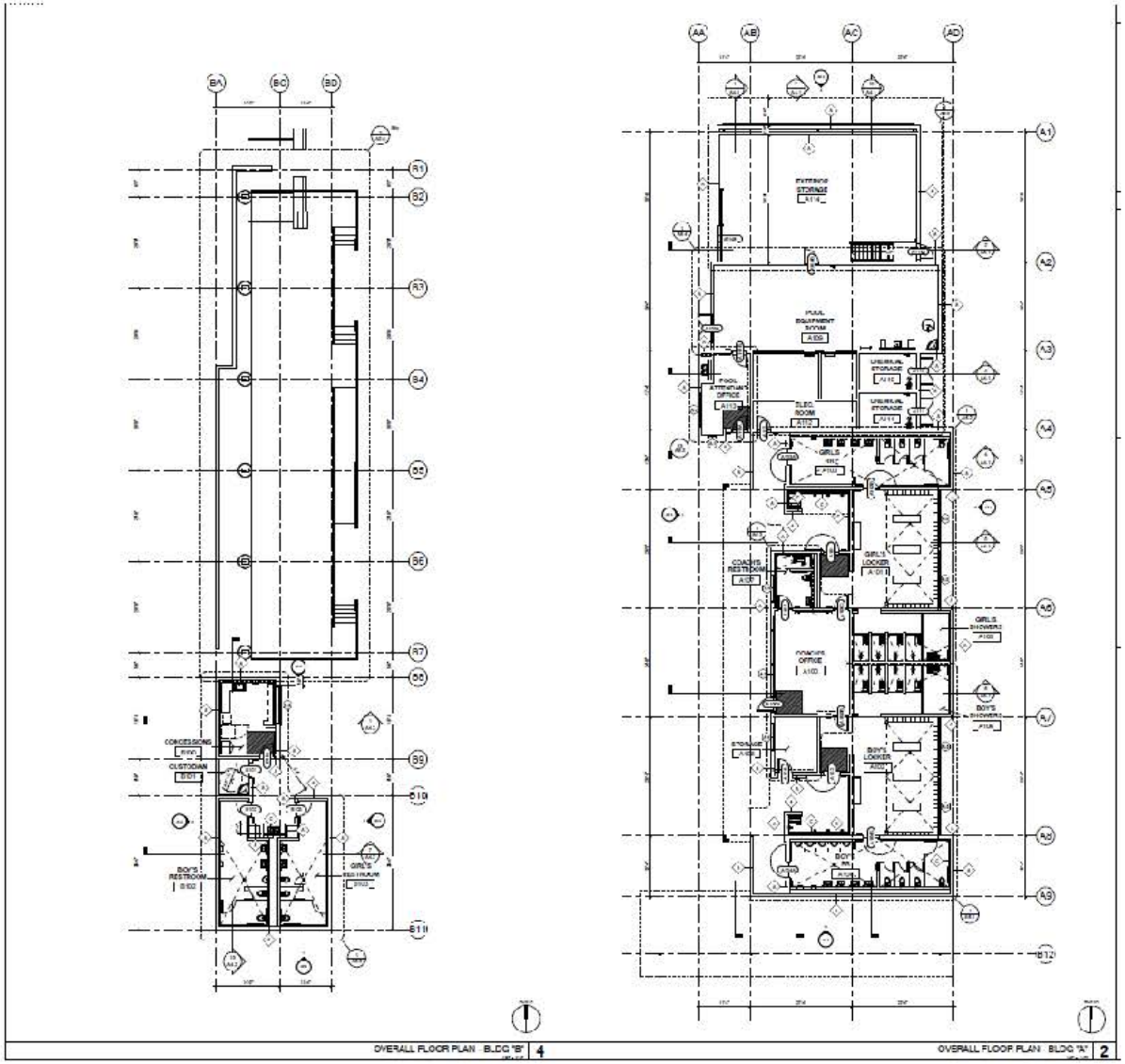

Source: PBK Architects, 100% Design Development Plans, February 2023

**Figure 3.3-4**
**PROPOSED SITE LAYOUT**



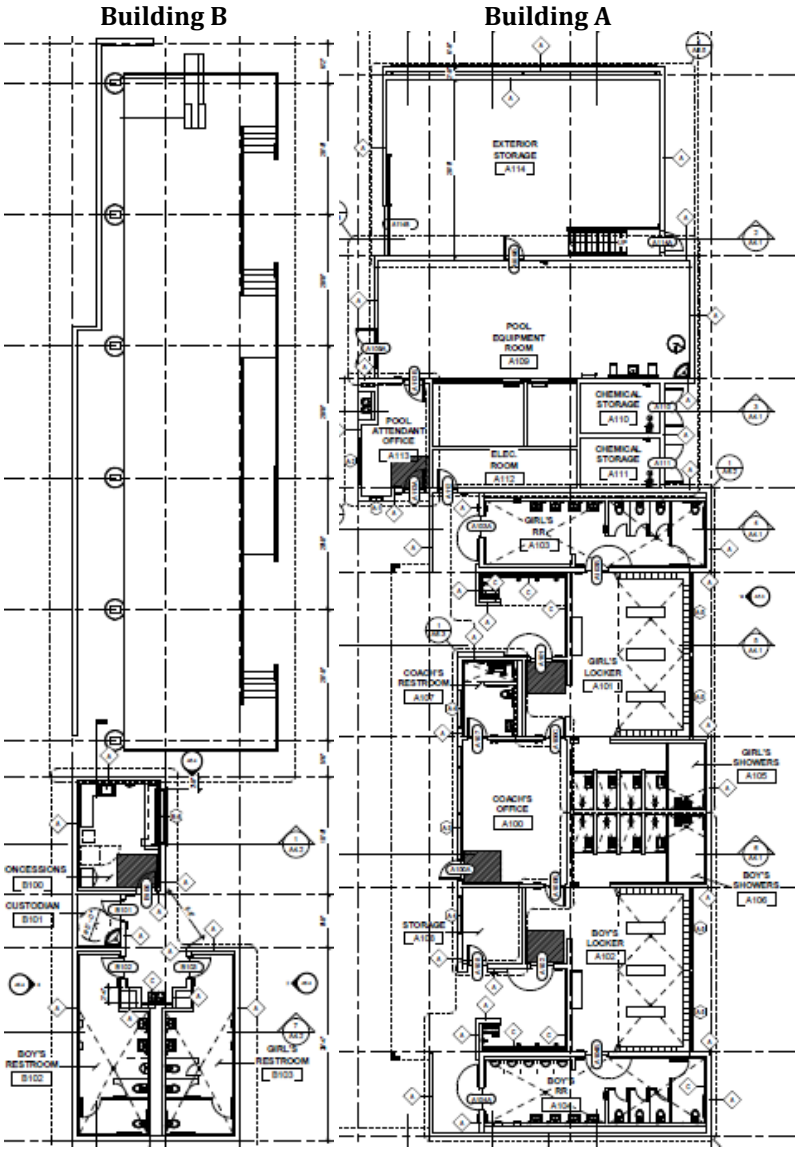

Source: PBK Architects, 100% Design Development Plans, February 2023

**Figure 3.3-5**
**PROPOSED BUILDINGS A & B FLOORPLANS**




Source: PBK Architects, 100% Design Development Plans, February 2023

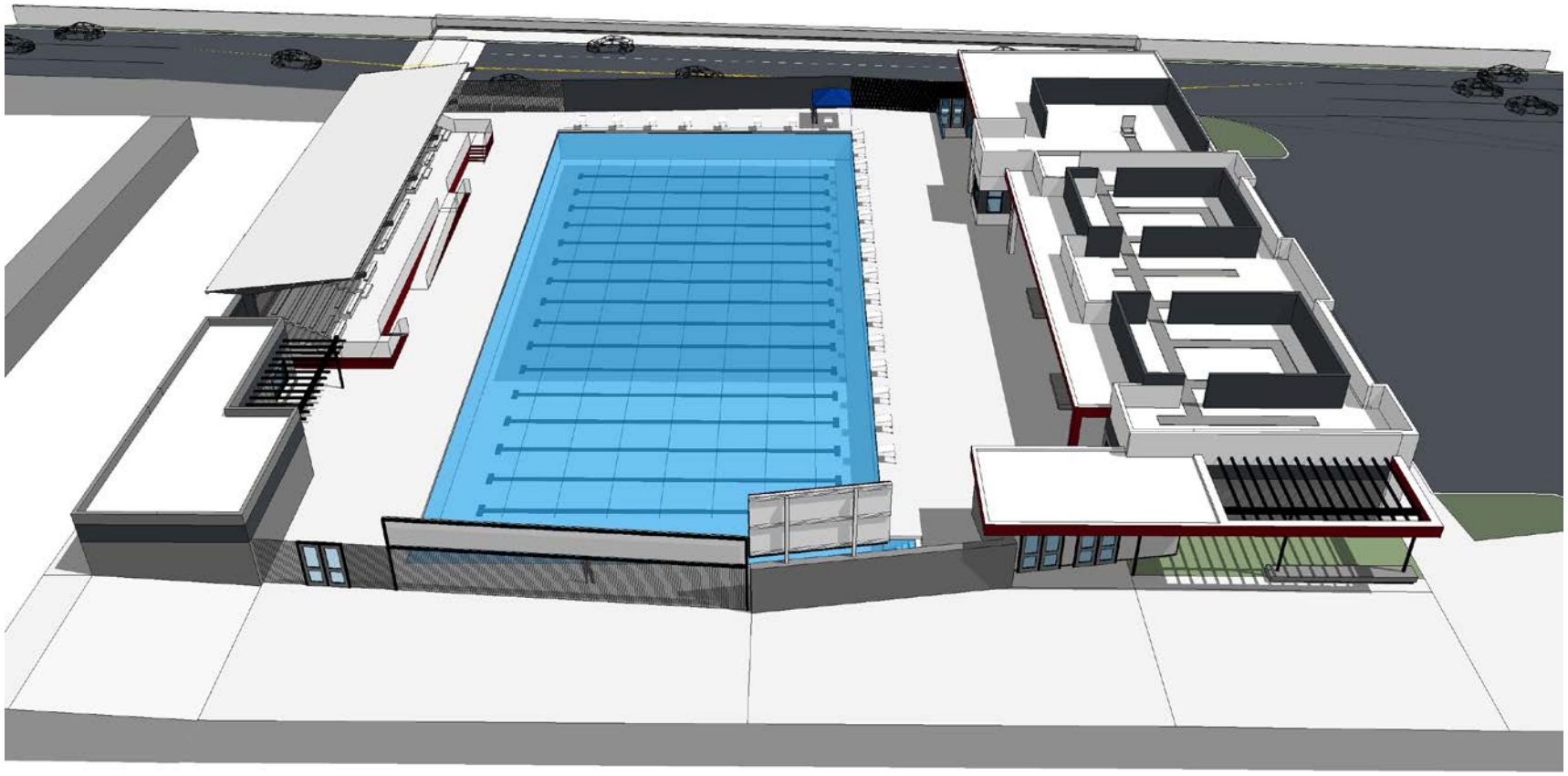
**Figure 3.3-5**
**PROPOSED BUILDINGS A & B FLOORPLANS**




Source: PBK Architects, 100% Design Development Plans, February 2023

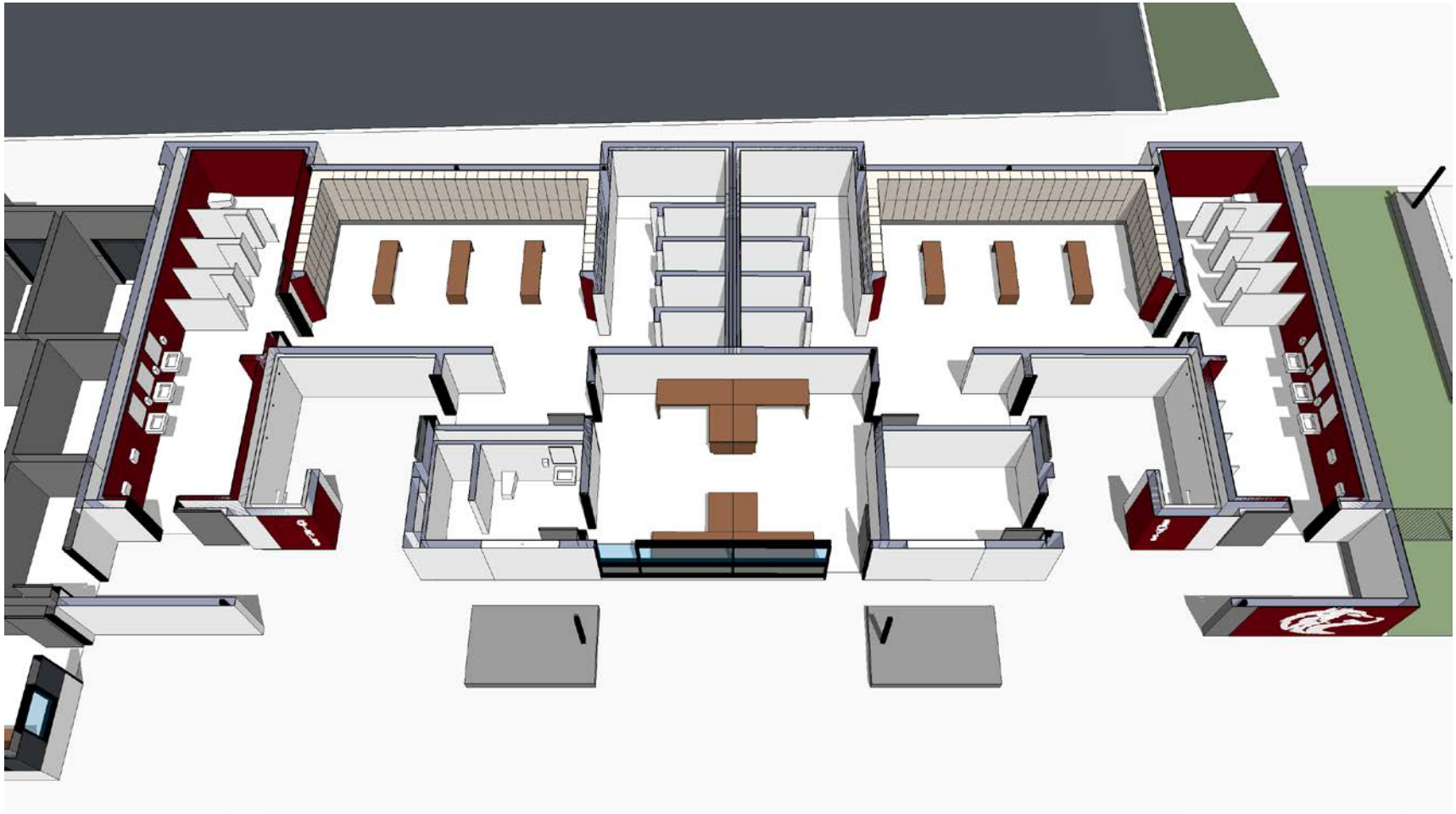
**Figure 3.3-6**
**PROJECT SOUTH AERIAL VIEW**

**Building B** **Building A**



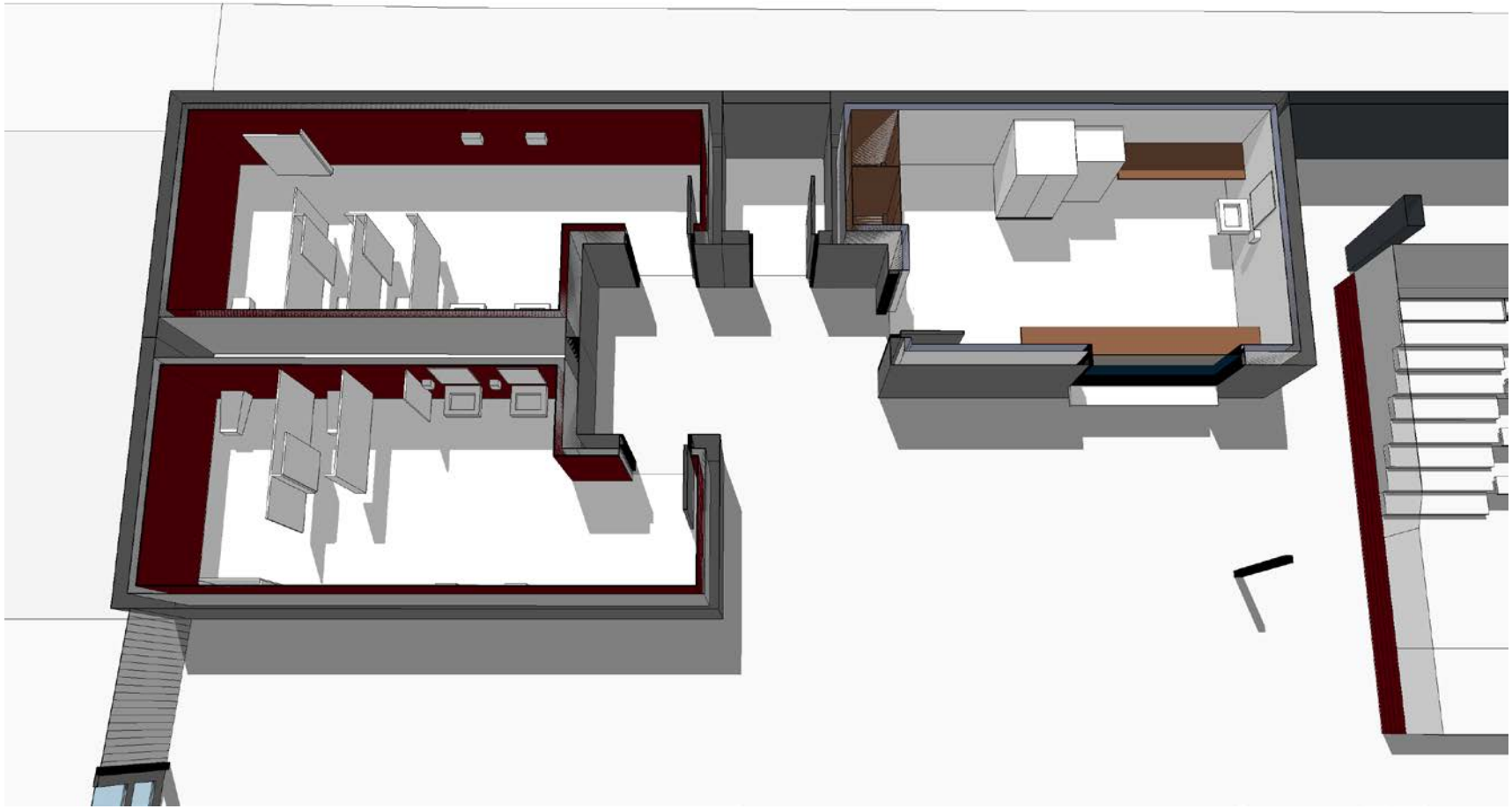
**Source**: PBK Architects, Project Renderings, December 9, 2023

**Figure 3.3-7**
**LOCKER ROOM FLOOR PLAN**



Source: PBK Architects, Project Renderings, December 9, 2023

**Figure 3.3-8**
**CONCESSIONS/REST ROOMS FLOOR PLAN**



Source: PBK Architects, Project Renderings, December 9, 2023

**Figure 3.3-9**
**BUILDING A EASTERN WALL ELEVATION**



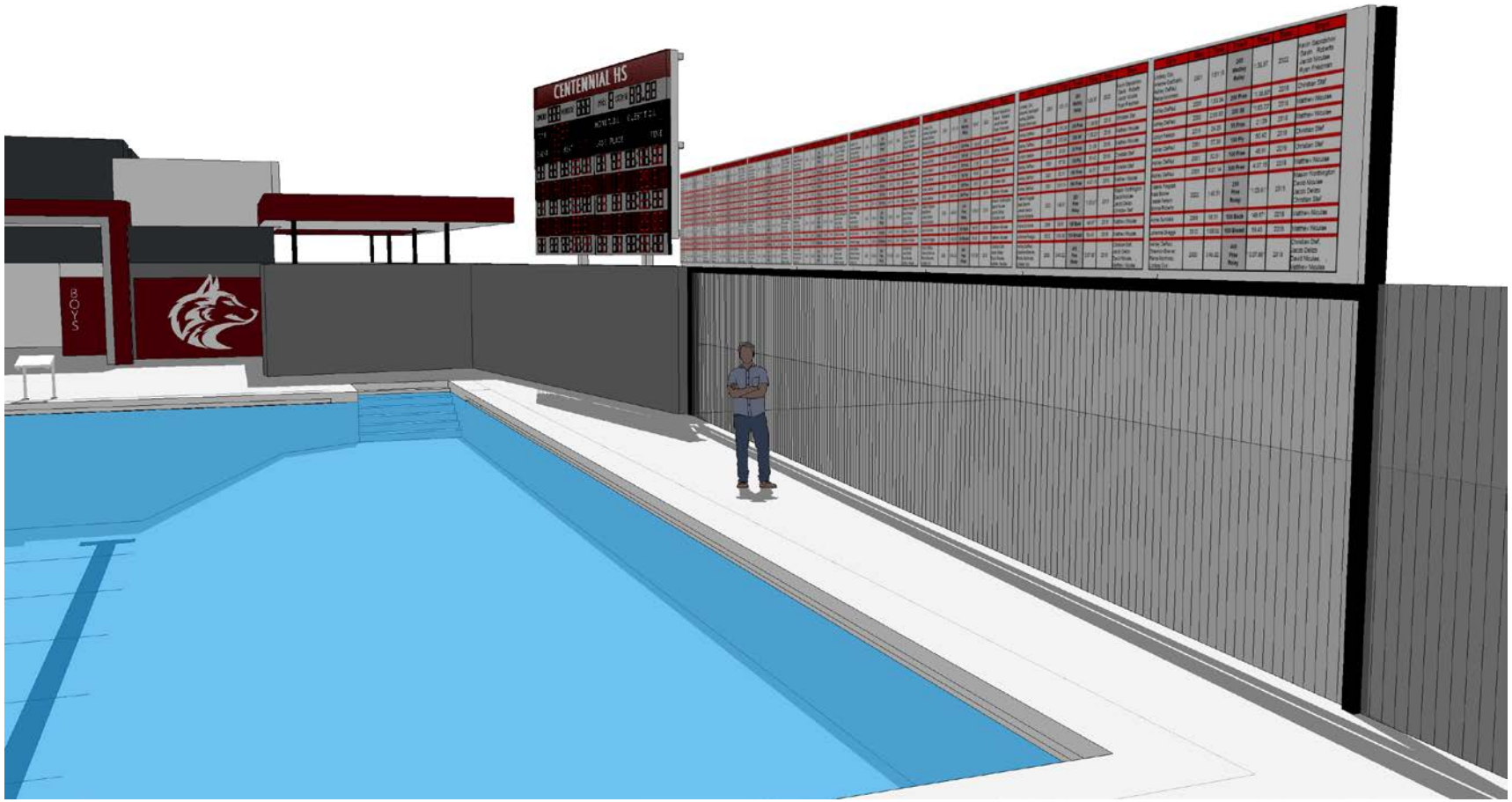

Source: PBK Architects, Project Renderings, December 9, 2023

**Figure 3.3-10**
**BUILDING A WESTERN WALL ELEVATION**



Source: PBK Architects, Project Renderings, December 9, 2023

**Figure 3.3-11**
**SCOREBOARD/WALL OF FAME**




**Source**: PBK Architects, Project Renderings, December 9, 2023

### 3.3.4 Electronic Scoreboard

An electronic scoreboard will be installed on poles on the southeast portion of the pool deck facing towards the bleachers. The Scoreboard itself is part of a fully integrated system by Colorado Time Systems. It is essentially a large LED screen capable of illustrating still pictures, moving pictures, or software driven character layouts with events/times etc. A Wall of Fame, calling out accomplishments of the school's aquatics programs, will also be installed on the south wall of the complex, immediately west of the scoreboard.

### 3.3.5 Pool Lighting

To provide lighting for the proposed project, Musco fixtures will be mounted on four 60-foot light poles covering the pool area. Fixtures will be mounted at 60 feet for competition lights and 50 feet for egress. A total of 16 fixtures, including 12 at 880 watts (104,000 lumens) and four at 540 watts (67,000 lumens) will be placed on the poles. Electro-Voice SX600 High Output Two-way loudspeakers will be mounted on the two poles near the northeast and northwest corners of the pool.

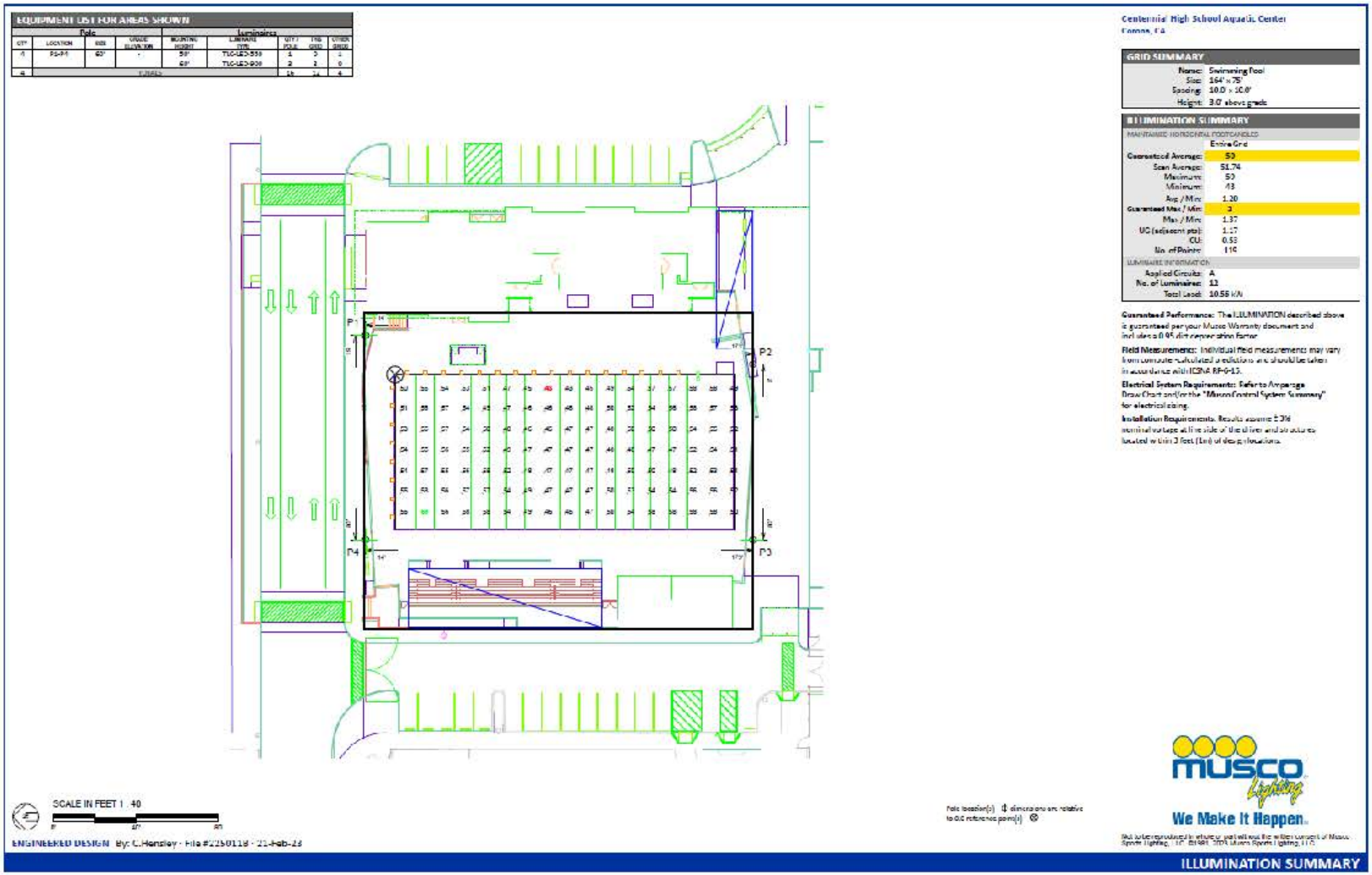
A summary of the type and quantity of light fixtures is in **Table 3.3-1**. **Figure 3.3-12** shows the locations of the proposed light poles and the lighting plan.

**Table 3.3-1**
**POOL LIGHTING SYSTEM SUMMARY**

| Pole | | | Luminaires | | |
|---|---|---|---|---|---|
| **Quantity** | **Location** | **Height (ft)** | **Mounting Heights (ft)** | **Lamp Type** | **Fixture Quantity** |
| 4 | P1-P4 | 60 | 60<br>50 | TLC-LED-900<br>TLC-LED-550 | 12<br>4 |
| 4 | **Totals** | | | | 16 |

Source: Musco Lighting, 2023

**Figure 3.3-12**
**PROPOSED POOL ILLUMINATION PLAN**




### 3.3.6 Source: Musco Lighting, February 21. 2023

### 3.3.7 Landscaping

The proposed project does not include landscaping. Existing planters in the current facility will be demolished during the demolition phase of construction.

### 3.3.8 Utility Improvements

The proposed project includes installation of the following utility laterals: storm water; domestic water; sanitary sewer; natural gas; electrical power; communications; unknown utility; and fire water. Connection points and line locations are shown on **Figure 3.3-13**.

### 3.3.9 Project Access and Parking

Development of the project may require a minor reduction in the number of existing parking spaces in the lot to the immediate east of the project. The current facility utilizes existing parking lots on campus, and that will not change. Ample parking spaces would be available within existing surface parking lots located on campus to accommodate the parking needs of the project.

Public access patterns to the high school campus will remain as they are. The drop off area to the north of the proposed project will include two eastbound lanes closest to the project site, and two westbound lanes to the immediate north of the eastbound lanes.

## 3.4 Construction Activities and Schedule

Construction activities for the proposed pool project are anticipated to last approximately 15 months, from December 2023 through February 2025; a summary construction schedule is shown below in Table 3.4-1. Note that many of the construction phases would overlap. Following demolition and site preparation, construction of the various components of the project (pool, buildings, bleachers and accessory structures) will be staged at appropriate times, with most components being constructed concurrently.

A complete construction schedule, from pre-construction through move-in, can be found in **Appendix A1.**

**Table 3.4-1**
**SUMMARY CONSTRUCTION SCHEDULE**

| Construction Phase | | Duration, months | Beginning month | Ending month |
|---|---|---|---|---|
| Drain pool; demolition | | 1 | December 2023 | January 2024 |
| Grading | | 2 weeks | January 2024 | January 2024 |
| Utilities installation | | 7 | January 2024 | September 2024 |
| Locker Room Building | Foundation | 1 | February 2024 | March 2024 |
| | Exterior Envelope | 11 | March 2024 | February 2025 |
| | Interior Construction | 5 | July 2024 | December 2024 |
| Concession Stand Building | Foundation | 1 | February 2024 | March 2024 |
| | Exterior Envelope | 11 | March 2024 | February 2025 |
| | Interior Construction | 3 | May 2024 | August 2024 |
| Bleachers | | 3 | March 2024 | May 2024 |
| Pool Construction | | 9 | March 2024 | December 2024 |

| Construction Phase | Duration, months | Beginning month | Ending month |
|---|---|---|---|
| Site Work (install lights; walls, fencing, and gates; paving; and landscaping) | 4 | March 2024 | July 2024 |
| Project Completion (testing, cleaning, punch lists, etc.) | 3 | December 2024 | February 2025 |

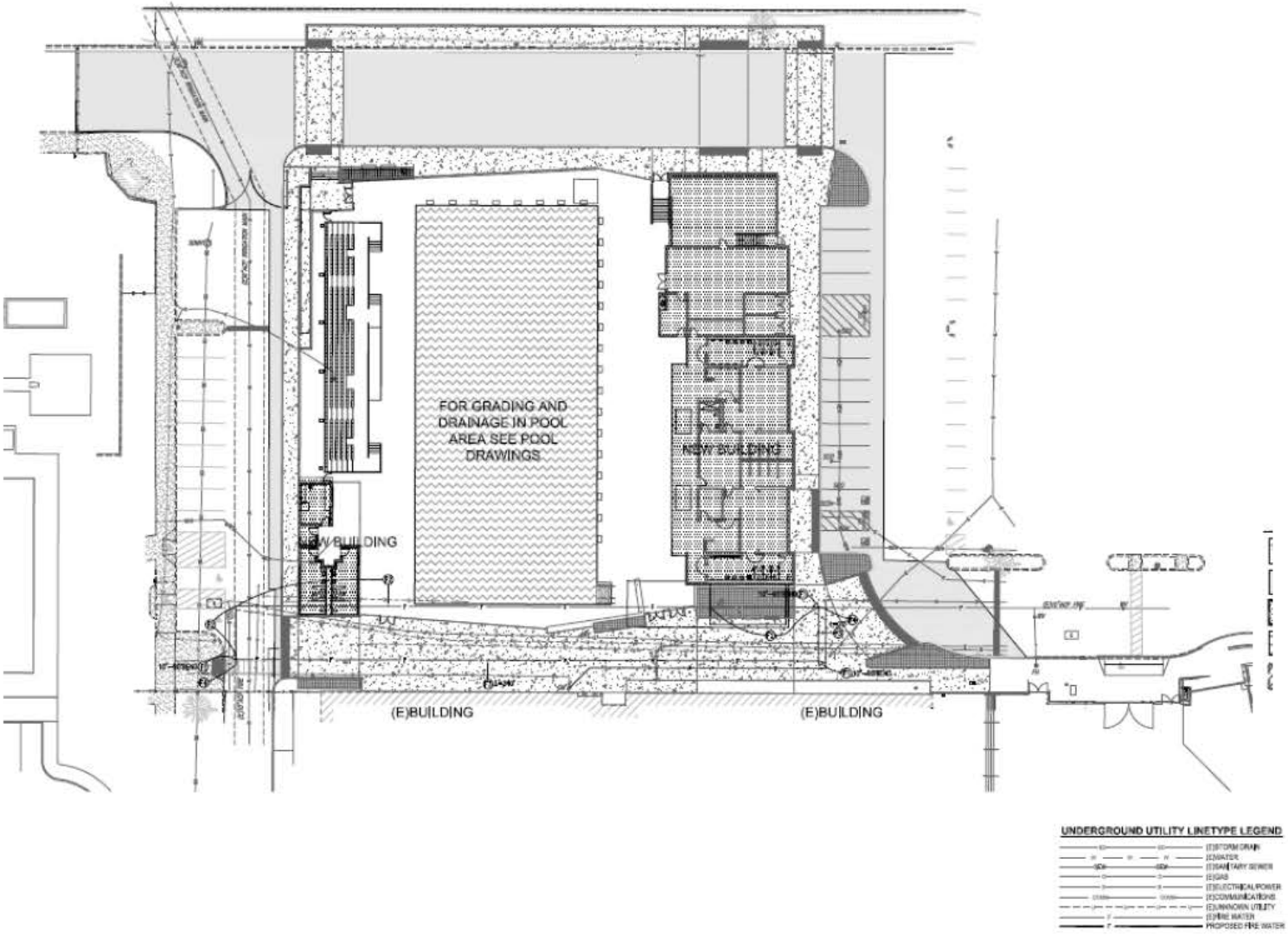
Source: Erickson-Hall Construction, 2023

The project would begin with the removal/demolition of the existing pool and associated improvements. Debris would be disposed of at an appropriate landfill or recycling facility that accepts construction and demolition waste. Subsequently, grading/excavation activities would occur. Following this, the new pool, associated improvements, and lighting would be constructed.

Construction access would be provided through the existing surface streets adjacent to the project site. Construction equipment would include a skid steer, back hoe, excavator, crane, concrete truck, concrete pump, and drilling rig. Three or more tractor trailers would be used to haul away the demolition waste. Construction staging would occur within the boundaries of the site and would be separated from the rest of the school campus by construction fencing (See **Figure 3.3-14**). The District's construction contractor would prepare and comply with a Storm Water Pollution Prevention Plan (SWPPP), including site-specific best management practices (BMPs) for erosion and sediment control, as required by the State Water Resources Control Board's General Construction Permit.

Construction is anticipated to occur during 2023, 2024, and 2025. The proposed project would be designed, approved and constructed in accordance with the requirements of the Division of the State Architect (DSA) and the 2022 California Building Code (CBC) for the construction of public school buildings and the recommendations outlined in the DSA's Interpretation of Regulations (IR). The IRs were created by DSA for compliance with applicable building codes and regulations including structural design, relocatable buildings, fire-resistive building materials, fire alarms, fire suppression equipment, safe occupant egress, and firefighting equipment access. Compliance with these standards and code requirements would ensure implementation of structural safety, fire protection, energy efficient design, water conservation measures, and will aid in the reduction of greenhouse gas emissions. The California Geological Survey reviews and approves geotechnical investigation reports for public school construction projects.

**Figure 3.3-13**
**UTILITY PLAN**




**Source:** PBK Architects, 100% Design Development Plans, February 2023

## 3.5 Reviewing Agencies

The following agencies would be provided an opportunity to review the IS/MND for compliance with applicable requirements, and to submit written comments, if any, to the Lead Agency.

**State**

- California Office of Planning and Research – State Clearinghouse
- California Department of Education
- Native American Heritage Commission
- Department of Conservation
- California Department of Fish and Wildlife
- Department of Health Services
- Office of Emergency Services
- State Water Resources Control Board
- State Department of Toxic Substance Control

**Regional and Local**

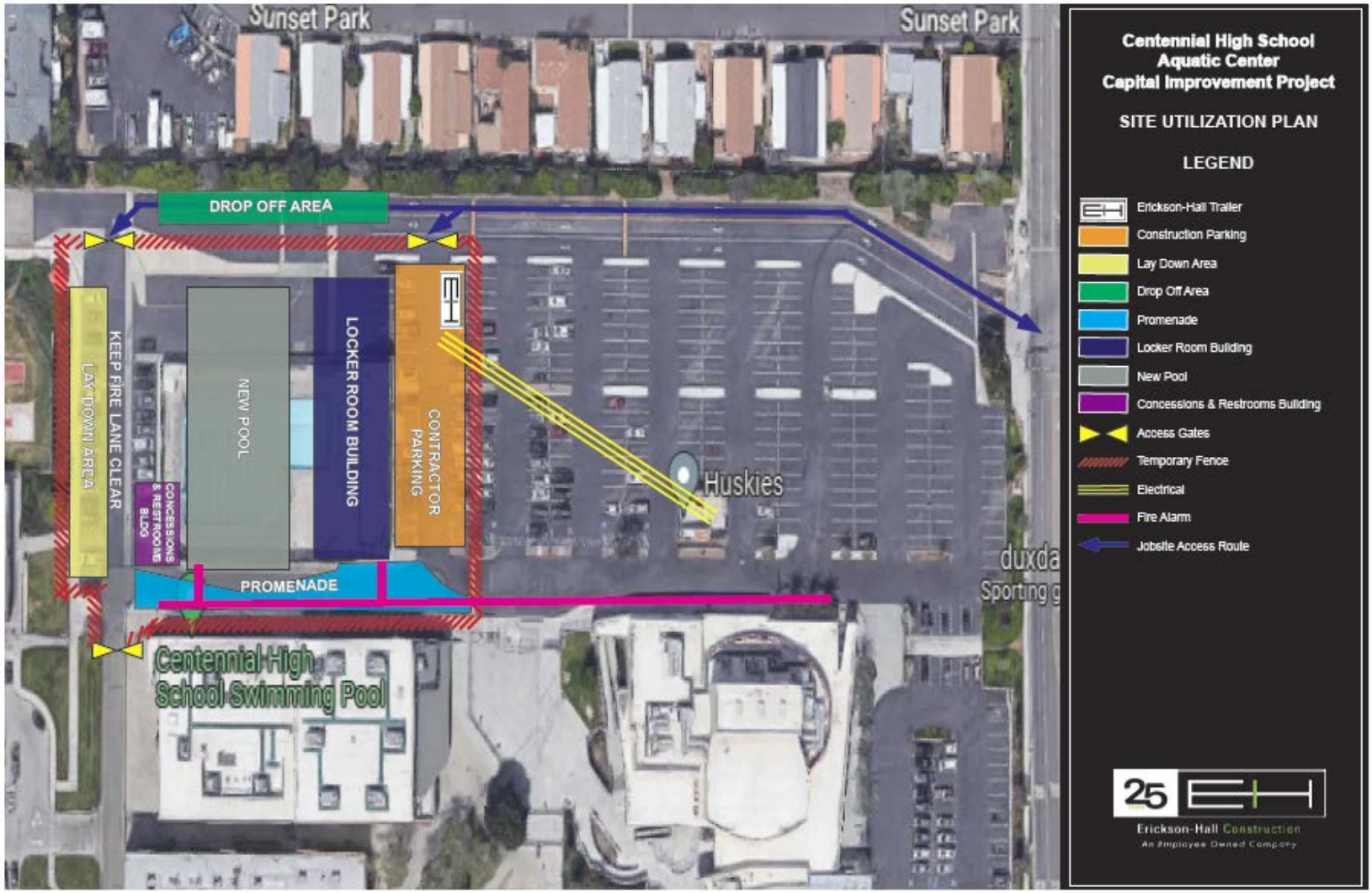
- Corona Fire Department
- City of Corona Development Services Department
- City of Corona Police Department
- City of Corona Utilities Division – Water Department
- Riverside County Health Care Agency

## 3.6 Discretionary Actions

Following CNUSD approval of this IS/MND (refer to **Section 1.0**), the following approvals would be required prior to construction.

| AGENCY | PERMIT OR APPROVAL |
|---|---|
| California Division of the State Architect | Approval of plans and specifications |
| California Geological Society | Review of geotechnical information |
| South Coast Air Quality Management District | Issuance of applicable air quality permits |
| Riverside County Health Department | Permit |
| California Department of Education | Approval of Plans |

**Figure 3.3-14**
**SITE UTILIZATION PLAN**




**Source**: Erickson-Hall Construction

## 4.0 ENVIRONMENTAL CHECKLIST

### Environmental Factors Potentially Affected

The environmental factors checked below would be potentially affected by this project, involving at least one impact that is a "Potentially Significant Impact" or as a "Potentially Significant Unless Mitigation Incorporated," as indicated by the checklist on the following pages.

| | | |
|---|---|---|
| ☐ Aesthetics | ☐ Agricultural and Forest Resources | ☐ Air Quality |
| ☐ Biological Resources | ☒ Cultural Resources | ☐ Energy |
| ☒ Geology / Soils | ☐ Greenhouse Gas Emissions | ☐ Hazards & Hazardous Materials |
| ☐ Hydrology / Water Quality | ☐ Land Use / Planning | ☐ Mineral Resources |
| ☒ Noise | ☐ Population / Housing | ☐ Public Services |
| ☐ Recreation | ☐ Transportation | ☒ Tribal Cultural Resources |
| ☐ Utilities/Service Systems | ☐ Wildfire | ☒ Mandatory Findings of Significance |

### Determination (To Be Completed by the Lead Agency)

On the basis of this initial evaluation:

☐ I find that the proposed project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION will be prepared.

☒ I find that although the proposed project could have a significant effect on the environment, there will not be a significant effect in this case because revisions in the project have been made by or agreed to by the project proponent. A MITIGATED NEGATIVE DECLARATION will be prepared.

☐ I find that the proposed project MAY have a significant effect on the environment, and an ENVIRONMENTAL IMPACT REPORT is required.

☐ I find that the proposed project MAY have a "potentially significant impact" or "potentially significant unless mitigated" impact on the environment, but at least one effect (1) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and (2) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. An ENVIRONMENTAL IMPACT REPORT is required, but it must analyze only the effects that remain to be addressed.

☐ I find that although the proposed project could have a significant effect on the environment, because all potentially significant effects (a) have been analyzed adequately in an earlier EIR or NEGATIVE DECLARATION pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier EIR or NEGATIVE DECLARATION, including revisions or mitigation measures that are imposed upon the proposed project, nothing further is required.

Signature — Date: 10/23/2023

Jacquelyn Roberts — Corona-Norco Unified School District
Printed Name

## Evaluation of Environmental Impacts

(1) A brief explanation is required for all answers except "No Impact" answers that are adequately supported by the information sources a lead agency cites in the parentheses following each question. A "No Impact" answer is adequately supported if the referenced information sources show that the impact simply does not apply to projects like the one involved (e.g., the project falls outside a fault rupture zone). A "No Impact" answer should be explained where it is based on project-specific factors, as well as general standards (e.g., the project would not expose sensitive receptors to pollutants, based on a project-specific screening analysis).

(2) All answers must take into account the whole action involved, including offsite as well as onsite, cumulative as well as project-level, indirect as well as direct, and construction as well as operational impacts.

(3) Once the lead agency has determined that a particular physical impact may occur then the checklist answers must indicate whether the impact is potentially significant, less than significant with mitigation, or less than significant. "Potentially Significant Impact" is appropriate if there is substantial evidence that an effect may be significant. If there are one or more "Potentially Significant Impact" entries when the determination is made, an EIR is required.

(4) "Negative Declaration: Less than Significant with Mitigation Incorporated" applies where the incorporation of mitigation measures has reduced an effect from "Potentially Significant Impact" to a "Less than Significant Impact." The lead agency must describe the mitigation measures and briefly explain how they reduce the effect to less than significant level.

(5) Earlier analyses may be use where, pursuant to the tiering, Program EIR, or other CEQA process, an affect has been adequately analyzed in an earlier EIR or negative declaration. (See Section 15063(c)(3)(D) of the CEQA Guidelines. In this case, a brief discussion should identify the following:

(a) Earlier Analyses Used. Identify and state where the earlier analysis available for review.

(b) Impacts Adequately Addressed. Identify which effects from the above checklist were within the scope of and adequately analyzed in an earlier document pursuant to applicable legal standards, and state whether such effects were addressed by mitigation measures based on the earlier analysis.

(c) Mitigation Measures. For effects that are "Less than Significant with Mitigation Measures Incorporated," describe the mitigation measures that were incorporated or refined from the earlier document and the extent to which they address site-specific conditions for the project.

(6) Lead agencies are encouraged to incorporate into the checklist references to information sources for potential impacts (e.g., general plans, zoning ordinances). Reference to a previously prepared or outside document should, where appropriate, include a reference

to the page or pages where the statement is substantiated. A source list should be attached and other sources used or individuals contacted should be cited in the discussion.

(7) Supporting Information Sources: A source list should be attached, and other sources used or individuals contacted should be cited in the discussion.

(8) This is only a suggested form, and lead agencies are free to use different formats; however, lead agencies should normally address the questions from this checklist that are relevant to a project's environmental effects in whatever format is selected.

(9) The explanation of each issue should identify:

(a) The significance criteria or threshold, if any, used to evaluate each question; and

(b) The mitigation measure identified, if any, to reduce the impact to less than significant.

## 4.1 Aesthetics

| Would the project: | Potentially Significant Impact | Less than Significant Impact with Mitigation Incorporated | Less than Significant Impact | No Impact |
|---|---|---|---|---|
| a) Have a substantial adverse effect on a scenic vista? | | | **X** | |
| b) Substantially damage scenic resources, including, but not limited to, trees, outcroppings, and historic buildings within a state scenic highway? | | | | **X** |
| c) In non-urbanized areas, substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage point). If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality? | | | **X** | |
| d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area? | | | **X** | |

A "visual environment" includes the built environment (development patterns, buildings, parking areas, and circulation elements) and natural environment (such as hills, vegetation, rock outcroppings, drainage pathways, and soils) features. Visual quality, viewer groups and sensitivity, duration, and visual resources characterize views.

- Visual quality refers to the general aesthetic quality of a view, such as vividness, intactness, and unity.
- Viewer groups identify who is most likely to experience the view. High-sensitivity land uses include residences, schools, playgrounds, religious institutions, and passive outdoor spaces such as parks, playgrounds, and recreation areas.
- Duration of a view is the amount of time that a particular view can be seen by a specific viewer group.
- Visual resources refer to unique views, and views identified in local plans, from scenic highways, or of specific unique structures or landscape features.

**a) Would the project have a substantial adverse effect on a scenic vista?**

**Less than Significant Impact**

Scenic vistas generally include extensive panoramic views of natural features, unusual terrain, or unique urban or historic features, for which the field of view can be wide and extend into the distance, and focal views that focus on a particular object, scene or feature of interest. The City of Corona General Plan Environmental Impact Report (EIR) lists the following scenic vistas: Prado Basin views from Sierra del Oro, views south to the Santa Ana Mountains from the I-15/SR-91 freeway interchange; southern view of the foothills from major streets south of Ontario Avenue; and views of the San Gabriel Mountains from higher elevations south of Ontario Avenue (Placeworks, 2020, p. CD 17). The project site is not located within any of the scenic vista locations aforementioned, is located in a highly developed area, and would develop a building that is of similar size to the existing swimming pool building. Therefore, impacts would be less than significant and no mitigation is required.

**b) Would the project substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?**

**No Impact**

The California Department of Transportation (Caltrans) designates state scenic highways. The nearest officially designated state scenic highway to the project site is a portion of State Route 91 (SR-91), approximately 12.5 miles west of the project site (Caltrans, 2023). Due to the large distance between the project site and SR-91, construction and implementation of the project would have no impacts on state scenic highways. The City's General Plan EIR provides a map of the City designated scenic corridors (Placeworks, 2020, p. CD 19). The project site is not located along any scenic corridor. The closest scenic corridor to the project site is a portion of the Interstate-15 (I-15) freeway, approximately 0.45 mile northeast of the project site. Due to the distance and the large amount of intervening development between the project site and the freeway, there would be no impacts.

**c) In non-urbanized areas, would the project substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage point). If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?**

**Less than Significant Impact**

The project site is located in a highly urbanized portion of the City. Therefore, impact analysis would be based on if the project would conflict with applicable zoning and other regulations governing scenic quality. **Table 4.1-1**, *Project Compliance with Applicable City of Corona General Plan Policies Regarding Scenic Quality*, details the applicable aesthetics policies from the City General Plan and how the project would adhere to them.

**Table 4.1-1**
**PROJECT COMPLIANCE WITH APPLICABLE CITY OF CORONA GENERAL PLAN POLICIES REGARDING SCENIC QUALITY**

| Policies | Compliance |
|---|---|
| **Policy LU-2.4:** Maintain and reinforce the City's urban form and pattern of viable commercial and business centers and residential neighborhoods; prevent incompatibilities in land uses that could detract from the appearance, quality, or functioning of each area | The project site is south of a residential neighborhood. The project would redevelop an existing pool building that would be allowed under the Schools General Plan land use and zoning designation. Therefore, the project would comply with this policy. The proposed project would be screened by a wall; the existing pool and buildings are screened by a fence; both are out of view from public vantage points. |
| **Policy LU-5.1:** Promote development and revitalization of neighborhoods, commercial and industrial districts, and public places that are distinguished by their physical design, image, effectiveness in nurturing community socialization and economic activity, and perception as valued places | The project would redevelop the outdated Centennial High School swimming pool building, which would improve the design, image, and value of the project area. Therefore, the project would comply with this policy. |
| **Policy LU-5.15:** Require that new and rehabilitated structures be designed, built, and maintained in a manner that promotes their physical longevity, and at the same time provide architectural details consistent with the City's design guidelines and other applicable codes and ordinances. | The project would adhere to the City's design guidelines. Therefore, the project would comply with this policy. |
| **Policy LU-15.4:** Ensure that the City's public buildings, sites, and infrastructure are designed to be compatible in scale, mass, character, and architecture with the district and neighborhood in which they are located and pertinent design and development characteristics specified by this plan. | The project would adhere to the City's design guidelines. Therefore, the project would comply with this policy. |

**Source**: Placeworks, 2023, p. LU-17 to LU-40.

Based on the analysis above, the project would not conflict with applicable General Plan policies governing scenic quality. Additionally, the project would adhere to all applicable zoning regulations. Therefore, impacts would be less than significant.

**d) Would the project create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?**

**Less Than Significant Impact**

Construction and operation of the project would adhere to the City's Municipal Code Section 17.84.070, which would ensure that light and glare from project components would be less than significant (City of Corona Municipal Code 2023).

## 4.2 Agriculture and Forestry Resources

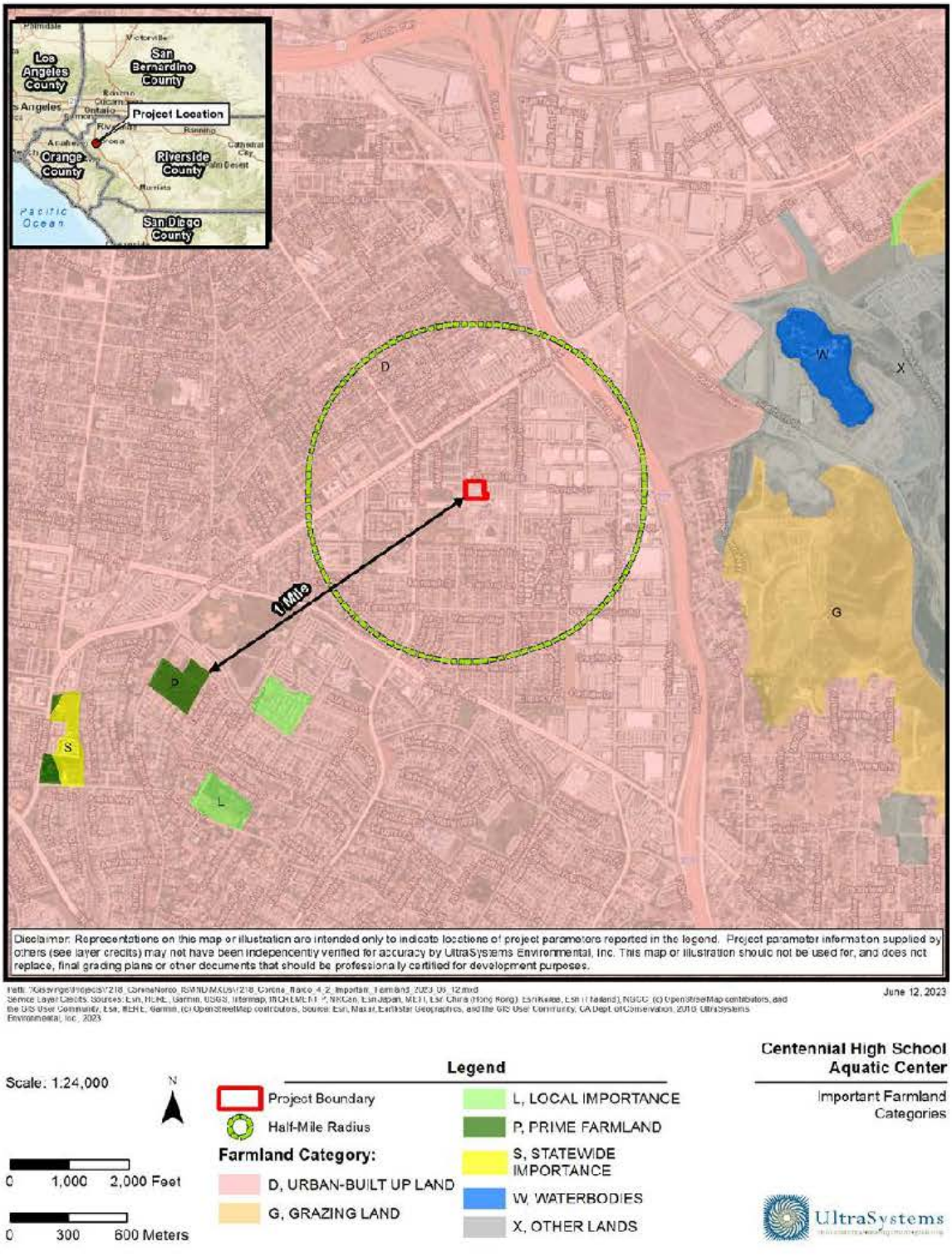
| Would the project: | Potentially Significant Impact | Less than Significant Impact with Mitigation Incorporated | Less than Significant Impact | No Impact |
|---|---|---|---|---|
| a) Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use? | | | | **X** |
| b) Conflict with existing zoning for agricultural use, or a Williamson Act contract? | | | | **X** |
| c) Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code § 12220(g)), timberland (as defined by Public Resources Codes § 4526), or timberland zoned Timberland Production (as defined by Government Code § 51104(g))? | | | | **X** |
| d) Result in the loss of forest land or conversion of forest land to non-forest use? | | | | **X** |
| e) Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use? | | | | **X** |

**a) Would the project convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?**

**No Impact**

The project site and surrounding uses are designated by the Division of Land Resource Protection (DLRP) as "Urban and Built-up Land" and the nearest Prime Farmland is located one mile to the southwest of the Project site (see **Figure 4.2-1** below). Urban and Built-up Land is used for residential, industrial, commercial, construction, institutional, public administration, and other developed purposes (DOC, 2023). Therefore, no farmland would be converted to non-agricultural use and no impacts would occur.

**Figure 4.2-1**
**IMPORTANT FARMLAND CATEGORIES**



**b) Would the project conflict with existing zoning for agricultural use, or a Williamson Act contract?**

**No Impact**

The project site is zoned Quasi-Public (QP), and is not zoned for agricultural use. Quasi-Public districts are used for government or other public serving uses necessary to the City's residents, such as fire stations, schools, post offices, libraries, recreation centers, and government centers (Corona Municipal Code, 2023). Williamson Act contracts restrict the use of privately-owned land to agriculture and compatible open-space uses under contract with local governments; in exchange, the land is taxed based on actual use rather than potential market value. Williamson Act contracts are made only on land within agricultural reserves; the project site is not within an agricultural reserve. Therefore, the project would not conflict with existing zoning for agricultural use or a Williamson Act contract and no impact would occur.

**c) Would the project (c) conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code § 12220(g)), timberland (as defined by Public Resources Codes § 4526), or timberland zoned Timberland Production (as defined by Government Code § 51104(g))?**

**No Impact**

The project site is zoned Quasi-Public (QP); the site is not zoned for forest, timberland, or timberland production use. Therefore, project development would not conflict with zoning for forest land or timberland, and no impact would occur.

**d) Would the project result in the loss of forest land or conversion of forest land to non-forest use?**

**No Impact**

The project site and surroundings are built out as part of a high school campus and are not cultivated for forest resources. Therefore, project development would not result in the loss of forest land or conversion of forest land to non-forest use, and no impact would occur.

**e) Would the project involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use?**

**No Impact**

The project site is built out as part of a high school campus and is surrounded by residences to the north and south, and to the east opposite Rimpau Avenue. No important farmland is near the project site; the nearest such farmland is Prime Farmland approximately one mile to the southwest. No forest land is present on or near the project site. Therefore, project development would not indirectly cause conversion of farmland to non-agricultural use or conversion of forest land to non-forest use, and no impacts would occur.

## 4.3 Air Quality

| Would the project: | Potentially Significant Impact | Less than Significant Impact with Mitigation Incorporated | Less than Significant Impact | No Impact |
|---|---|---|---|---|
| a) Conflict with or obstruct implementation of the applicable air quality plan? | | | **X** | |
| b) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is nonattainment under an applicable federal or state ambient air quality standard? | | | **X** | |
| c) Expose sensitive receptors to substantial pollutant concentrations? | | | **X** | |
| d) Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people? | | | **X** | |

### 4.3.1 Pollutants of Concern

Criteria pollutants are air pollutants for which acceptable levels of exposure can be determined and an ambient air quality standard has been established by the U.S. Environmental Protection Agency (USEPA) and/or the California Air Resources Board (ARB). The criteria air pollutants of concern are nitrogen dioxide ($NO_2$), carbon monoxide (CO), particulate matter ($PM_{10}$ and $PM_{2.5}$), sulfur dioxide ($SO_2$), lead (Pb), and ozone, and their precursors, such as reactive organic gases (ROG) (which are ozone precursors). Since the Centennial High School Aquatic Center Project (project) would not generate appreciable $SO_2$ or Pb emissions,[5] it is not necessary for the analysis to include those two pollutants. Presented below is a description of the remaining air pollutants of concern and their known health effects.

The project is in the western Riverside County portion of the South Coast Air Basin (SCAB), in which the South Coast Air Quality Management District (SCAQMD) is substantially responsible for air pollution control.

**Table 4.3-1** shows the attainment status of the SCAB for each criteria pollutant for both the National Ambient Air Quality Standards (NAAQS) and California Ambient Air Quality Standards (CAAQS). Presented below is a description of the relevant air pollutants of concern and their known health effects.

5 Sulfur dioxide emissions will be below 0.03 pound per day during construction.

**Table 4.3-1**
**FEDERAL AND STATE ATTAINMENT STATUS**

| Pollutants | Federal Classification | State Classification |
|---|---|---|
| Ozone ($O_3$) – 1-hour standard | Nonattainment (Extreme) | Nonattainment |
| Ozone ($O_3$) – 8-hour standard | Nonattainment (Extreme) | |
| Particulate Matter ($PM_{10}$) | Maintenance (Serious) | Nonattainment |
| Fine Particulate Matter ($PM_{2.5}$) | Nonattainment (Serious) | Nonattainment |
| Carbon Monoxide (CO) | Maintenance (Serious) | Attainment |
| Nitrogen Dioxide ($NO_2$) | Maintenance (Primary) | Attainment |
| Sulfur Dioxide ($SO_2$) | Unclassified | Attainment |
| Sulfates | No Federal Standards | Attainment |
| Lead (Pb) | | Attainment |
| Hydrogen Sulfide ($H_2S$) | Unclassified | |
| Visibility Reducing Particles | | |

**Sources**: ARB, 2020, USEPA, 2022a

***Nitrogen oxides*** ($NO_X$) serve as integral participants in the process of photochemical smog production and are precursors for certain particulate compounds that are formed in the atmosphere and for ozone. A precursor is a directly emitted air contaminant that, when released into the atmosphere, forms, causes to be formed, or contributes to the formation of a secondary air contaminant for which an ambient air quality standard (AAQS) has been adopted, or whose presence in the atmosphere will contribute to the violation of one or more AAQSs. When $NO_X$ and ROG are released in the atmosphere, they can chemically react with one another in the presence of sunlight to form ozone. The two major forms of $NO_X$ are nitric oxide (NO) and $NO_2$. NO is a colorless, odorless gas formed from atmospheric nitrogen and oxygen when combustion takes place under high temperature and/or high pressure. $NO_2$ is a reddish-brown pungent gas formed by the combination of NO and oxygen. $NO_2$ acts as an acute respiratory irritant and eye irritant and increases susceptibility to respiratory pathogens (USEPA, 2011).

***Carbon monoxide*** is a colorless, odorless non-reactive pollutant produced by incomplete combustion of fossil fuels. CO is emitted almost exclusively from motor vehicles, power plants, refineries, industrial boilers, ships, aircraft and trains. In urban areas, such as the project location, automobile exhaust accounts for most CO emissions. CO is a non-reactive air pollutant that dissipates relatively quickly; therefore, ambient CO concentrations generally follow the spatial and temporal distributions of vehicular traffic. CO concentrations are influenced by local meteorological conditions, primarily wind speed, topography, and atmospheric stability. CO from motor vehicle exhaust can become locally concentrated when surface-based temperature inversions are combined with calm atmospheric conditions, a typical situation at dusk in urban areas between November and February. The highest levels of CO typically occur during the colder months of the year when inversion conditions are more frequent. In terms of health, CO competes with oxygen, often replacing it in the blood, thus reducing the blood's ability to transport oxygen to vital organs. The results of

excess CO exposure can be dizziness, fatigue, and impairment of central nervous system functions. High concentrations are lethal (USEPA, 2010).

***Particulate matter*** (PM) consists of finely divided solids or liquids, such as soot, dust, aerosols, fumes and mists. Primary PM is emitted directly into the atmosphere from activities such as agricultural operations, industrial processes, construction and demolition activities, and entrainment of road dust into the air. Secondary PM is formed in the atmosphere from predominantly gaseous combustion by-product precursors, such as sulfur oxides, $NO_X$, and ROGs.

Particle size is a critical characteristic of PM that primarily determines the location of PM deposition along the respiratory system (and associated health effects) as well as the degradation of visibility through light scattering. In the United States, federal and state agencies have focused on two types of PM. $PM_{10}$ corresponds to the fraction of PM no greater than 10 micrometers in aerodynamic diameter and is commonly called respirable particulate matter, while $PM_{2.5}$ refers to the subset of $PM_{10}$ of aerodynamic diameter smaller than 2.5 micrometers, which is commonly called fine particulate matter.

$PM_{10}$ and $PM_{2.5}$ deposition in the lungs results in irritation that triggers a range of inflammation responses, such as mucus secretion and bronchoconstriction, and exacerbates pulmonary dysfunctions, such as asthma, emphysema, and chronic bronchitis. Sufficiently small particles may penetrate the bloodstream and impact functions such as blood coagulation, cardiac autonomic control, and mobilization of inflammatory cells from the bone marrow. Individuals susceptible to higher health risks from exposure to airborne $PM_{10}$ pollution include children, the elderly, smokers, and people of all ages with low pulmonary/cardiovascular function. For these individuals, adverse health effects of $PM_{10}$ pollution include coughing, wheezing, shortness of breath, phlegm, bronchitis, and aggravation of lung or heart disease, leading, for example, to increased risks of hospitalization and mortality from asthma attacks and heart attacks (USEPA, 2022b).

***Reactive organic gases*** (ROG) are defined as any compound of carbon, excluding CO, carbon dioxide, carbonic acid, metallic carbides or carbonates, and ammonium carbonate, which participates in atmospheric photochemical reactions. It should be noted that there are no state or national ambient air quality standards for ROG because ROGs are not classified as criteria pollutants. They are regulated, however, because a reduction in ROG emissions reduces certain chemical reactions that contribute to the formation of ozone. ROGs are also transformed into organic aerosols in the atmosphere, which contribute to higher $PM_{10}$ and lower visibility. The term "ROG" is used by the ARB for this air quality analysis and is defined the same as the federal term "volatile organic compound" (VOC).

***Ozone*** is a secondary pollutant produced through a series of photochemical reactions involving ROG and $NO_X$. Ozone creation requires ROG and $NO_X$ to be available for approximately three hours in a stable atmosphere with strong sunlight. Because of the long reaction time, peak ozone concentrations frequently occur downwind of the sites where the precursor pollutants are emitted. Thus, ozone is considered a regional, rather than a local, pollutant. The health effects of ozone include eye and respiratory irritation, reduction of resistance to lung infection and possible aggravation of pulmonary conditions in persons with lung disease. Ozone is also damaging to vegetation and untreated rubber (USEPA, 2022c).

### 4.3.2 Climate/Meteorology

Air quality is affected by both the rate and location of pollutant emissions, and by meteorological conditions that influence movement and dispersal of pollutants. Atmospheric conditions such as wind speed, wind direction, and air temperature gradients, along with local topography, provide the link between air pollutant emissions and air quality.

The project site is located wholly within the SCAB, which includes all of Orange County, as well as the non-desert portions of Los Angeles, Riverside, and San Bernardino Counties. The distinctive climate of the SCAB is determined by its terrain and geographical location. The SCAB is in a coastal plain with connecting broad valleys and low hills, bounded by the Pacific Ocean in the southwest quadrant with high mountains forming the remainder of the perimeter. The general region lies in the semi-permanent high-pressure zone of the eastern Pacific. Thus, the climate is mild, tempered by cool sea breezes. This usually mild climatological pattern is interrupted infrequently by periods of extremely hot weather, winter storms, or Santa Ana winds (SCAQMD, 1993).

The average annual maximum and minimum temperatures in the project area, as determined from the nearest meteorological station, Corona (#042031; latitude 33.883333°; longitude - 117.55°) (WRCC, 2023), which is approximately 1.65 miles north of the project site, are 78.2 degrees Fahrenheit (°F) and 48.3°F, respectively. Average winter (December, January, and February) high and low temperatures are approximately 66.6°F and 40.4°F, respectively, and average summer (June, July, and August) high and low temperatures are approximately 90.0°F and 56.6°F, respectively. The annual average of total precipitation is approximately 12.71 inches, which occurs mostly during the winter and relatively infrequently during the summer. Monthly precipitation averages approximately 2.5 inches during the winter (December, January, and February), approximately 1.1 inches during the spring (March, April, and May), approximately 0.6 inch during the fall (September, October, and November), and approximately 0.1 inch during the summer (June, July, and August).

### 4.3.3 Local Air Quality

The SCAQMD has divided the SCAB into source receptor areas (SRAs), based on similar meteorological and topographical features. The project site is in SCAQMD's Corona/Norco air monitoring area (SRA 22) in the Riverside Valley, and is served by the SCAQMD's Mira Loma (Van Buren) air monitoring station, approximately 10 miles north-northeast at 9501 Jurupa Road in Riverside. This station monitors $NO_2$, ozone and $PM_{2.5}$. The Norco station, 4.6 miles north-northwest at 1999 Fourth Street in Norco, monitors only $PM_{10}$. All stations in the SCAB ceased monitoring CO in 2012. The ambient air quality data in the project vicinity as recorded from 2019 through 2021, along with applicable standards, are shown in **Table 4.3-2**.

**Table 4.3-2**
**AMBIENT AIR QUALITY MONITORING DATA**

| Air Pollutant | Standard/Exceedance | 2019 | 2020 | 2021 |
|---|---|---|---|---|
| Ozone – Mira Loma Van Buren | Max. 1-hour Concentration (0.12 ppm)<br>Max. 8-hour Concentration (0.07 ppm)<br># Days > Federal 8-hour Std. of 0.12 ppm<br># Days > California 1-hour Std. of 0.09 ppm<br># Days > California 8-hour Std. of 0.070 ppm | 0.131<br>0.100<br>0<br>26<br>65 | 0.140<br>0.117<br>6<br>51<br>96 | 0.116<br>0.095<br>0<br>20<br>59 |
| $PM_{10}$ – Norco-Norconian | Max. 24-hour Concentration (150 µg/m³)<br>Est. # Days > Fed. 24-hour Std. of 150 µg/m³<br>Federal Annual Arithmetic Mean (50 µg/m³) | 94.5<br>ND<br>24.9 | 97.9<br>ND<br>39.6 | 106.4<br>0<br>29.6 |
| $PM_{2.5}$ – Mira Loma Van Buren | Max. 24-hour Concentration (35 µg/m³)<br># Days > Fed. 24-hour Std. of 35 µg/m³<br>State Annual Average (12 µg/m³) | 54.7<br>10.1<br>12.6 | 60.9<br>12.1<br>16.4 | 77.6<br>13.5<br>16.5 |
| $NO_2$ – Mira Loma Van Buren | Max. 1-hour Concentration (ppm)<br>State Annual Average (0.030 ppm)<br># Days > California 1-hour Std. of 0.18 ppm | 0.056<br>0.012<br>0 | 0.058<br>0.0142<br>0 | 0.053<br>0.011<br>0 |

**Source**: ARB, 2023.
ND - There were insufficient (or no) data available to determine the value.

### 4.3.4 Air Quality Management Plan (AQMP)

The SCAQMD is required to produce plans to show how air quality will be improved in the region. The California Clean Air Act (CCAA) requires that these plans be updated triennially to incorporate the most recent available technical information.[6] A multi-level partnership of governmental agencies at the federal, state, regional, and local levels implement the programs contained in these plans. Agencies involved include the USEPA, ARB, local governments, Southern California Association of Governments (SCAG), and SCAQMD. The SCAQMD and SCAG are responsible for formulating and implementing the Air Quality Management Plan (AQMP) for the SCAB. The SCAQMD updates its AQMP every three years.

The 2022 AQMP (SCAQMD, 2022b) was adopted by the SCAQMD Board on December 2, 2022. It focuses on reducing ozone by limiting the emissions of $NO_x$, which is a key reactant in ozone formation. The $NO_x$ reductions are through extensive use of zero emission technologies across all stationary and mobile sources categories. The majority of $NO_x$ emissions are from heavy-duty trucks, ships and other state and federally regulated mobile sources that are mostly beyond the SCAQMD's control. The SCAQMD's primary authority is over stationary sources, which account for approximately 20 percent of the SCAB's $NO_x$ emissions.

The AQMP incorporates updated emission inventory methodologies for various source categories and incorporates the 2020-2045 Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS) prepared by SCAG (2020). The 2020-2045 RTP/SCS was determined to conform to the federally mandated State Implementation Plan for the attainment and maintenance of the NAAQS.

[6] CCAA of 1988.

### 4.3.5 Sensitive Receptors

Some people, such as individuals with respiratory illnesses or impaired lung function because of other illnesses, persons over 65 years of age, and children under 14, are particularly sensitive to certain pollutants. A sensitive receptor means any residence including private homes, condominiums, apartments, and living quarters, schools, preschools, daycare centers, and health facilities such as hospitals or retirement and nursing homes, long term care hospitals, hospices, prisons, and dormitories or similar live-in housing (SCAQMD, 2012). Commercial and industrial facilities are not included in the definition of sensitive receptor, because employees typically are present for shorter periods of time, such as eight hours. Therefore, applying a 24-hour standard for $PM_{10}$ is appropriate not only because the averaging period for the state standard is 24 hours, but because the sensitive receptor would be present at the location for the full 24 hours.

The nearest sensitive receptors to the project site include the school campus that the pool is located within, Centennial High School at 1820 Rimpau Avenue, and the multi-family residences across from the project site about 120 feet away, the Villa Corona Mobile Home Community.

### 4.3.6 Applicable South Coast Air Quality Management District Rules

**Rule 403 (Fugitive Dust Rule)**

During construction, the project would be subject to SCAQMD Rule 403 (fugitive dust). SCAQMD Rule 403 does not require a permit for construction activities, per se; rather, it sets forth general and specific requirements for all construction sites (as well as other fugitive dust sources) in the SCAB. The general requirement prohibits a person from causing or allowing emissions of fugitive dust from construction (or other fugitive dust source) such that the presence of such dust remains visible in the atmosphere beyond the property line of the emissions source. SCAQMD Rule 403 also prohibits construction activity from causing an incremental $PM_{10}$ concentration impact, as the difference between upwind and downwind samples, at the property line of more than 50 micrograms per cubic meter as determined through $PM_{10}$ high-volume sampling. The concentration standard and associated $PM_{10}$ sampling do not apply if specific measures identified in the rules are implemented and appropriately documented.

Other requirements of Rule 403 include no track-out extending 25 feet or more in cumulative length and all track-out to be removed at conclusion of each workday; and using the applicable best available control measures included in Table 1 of Rule 403.

**Rule 1113 (Architectural Coatings)**

Construction of this project will include the application of architectural coatings and be subject to SCAQMD Rule 1113 (Architectural Coatings). Among other applicable entities, Rule 1113 requires anyone who applies, stores at a worksite, or solicits the application of architectural coatings to use coatings that contain VOC less than or equal to the VOC limits specified in Table 1 of the rule.

### 4.3.7 Impact Analysis

**a) Would the project conflict with or obstruct implementation of the applicable air quality plan?**

**Less than significant Impact**

The South Coast 2022 AQMP, discussed above, incorporates land use assumptions from local general plans and regional growth projections developed by SCAG to estimate stationary and mobile air emissions associated with projected population and planned land uses. If the proposed land use is consistent with the local general plan, then the impact of the project is presumed to have been accounted for in the AQMP. This is because the land use and transportation control sections of the AQMP are based on the SCAG regional growth forecasts, which incorporate projections from local general plans.

The proposed project is in compliance with the City's General Plan and Zoning designations. The project site has a General Plan land use designation of Schools (S) and has zoning designation of Schools (City of Corona, 2014a, 2014b). Therefore, no General Plan amendment or Zone Change is required. The land use would continue to be consistent with the local plans and the impacts of the project are still accounted for in the AQMP.

Another measurement tool in evaluating consistency with the AQMP is to determine whether a project would generate population and employment growth and, if so, whether that growth would exceed the growth rates forecasted in the AQMP and how the project would accommodate the expected increase in population or employment. The project would create minimal to negligible increase in population and overall vehicle miles traveled (VMT), which would be included in the growth rates forecasted in the AQMP.

Additionally, to assist the implementation of the AQMP, projects must not create regionally significant emissions of regulated pollutants from either short-term construction or long-term operations. The SCAQMD has developed criteria in the form of emissions thresholds for determining whether emissions from a project are regionally significant (SCAQMD, 2019). They are useful for estimating whether a project is likely to result in a violation of the NAAQS and/or whether the project is in conformity with plans to achieve attainment. SCAQMD's significance thresholds for criteria pollutant emissions during construction activities and project operation are summarized in **Table 4.3-3**. A project is considered to have a regional air quality impact if emissions from its construction and/or operational activities exceed the corresponding SCAQMD significance thresholds.

**Table 4.3-3**
**SCAQMD THRESHOLDS OF SIGNIFICANCE**

| Pollutant | Construction Thresholds (lbs./day) | Operational Thresholds (lbs./day) |
|---|---|---|
| Volatile Organic Compounds (VOC) | 75 | 55 |
| Nitrogen Oxides ($NO_x$) | 100 | 55 |
| Carbon Monoxide (CO) | 550 | 550 |
| Sulfur Oxides ($SO_x$) | 150 | 150 |
| Particulate Matter ($PM_{10}$) | 150 | 150 |
| Fine Particulate Matter ($PM_{2.5}$) | 55 | 55 |

**Note**: lbs. = pounds.
**Source**: SCAQMD, 2019.

**Regional Construction Emissions**

Construction activities for the project are anticipated to begin in October 2023 and end in December 2024 and would have six construction phases:

- Demolition
- Site Preparation
- Grading
- Building Construction
- Paving
- Architectural Coating

The total demolition of the pool, foundations, existing planters, concrete pavement, asphalt pavement, concrete curb, concrete curb and gutter, retaining wall and foundations, chain link fence and footings, concrete swale, existing 2,808-square-foot building and foundations, existing catch basin, and existing light pole and concrete foundation was assumed to comprise 72,500 square feet as a worst-case.

**Table 4.3-4** shows the project schedule used for the air quality, GHG emissions, and noise analyses.

**Table 4.3-4**
**CONSTRUCTION SCHEDULE**

| Construction Phase | Start | End |
|---|---|---|
| Demolition | October 2, 2023 | November 10, 2023 |
| Site Preparation | November 11, 2023 | November 24, 2023 |
| Grading | November 25, 2023 | December 22, 2023 |
| Building Construction | December 23, 2023 | September 27, 2024 |
| Paving | September 28, 2024 | October 29, 2024 |
| Architectural Coating | October 30, 2024 | December 2, 2024 |

**Source:** Calculated by UltraSystems with CalEEMod (Version 2022.1.13) (CAPCOA, 2023).

These construction activities would temporarily create emissions of dusts, fumes, equipment exhaust, and other air contaminants. Mobile sources (such as diesel-fueled equipment onsite and traveling to and from the project site) would primarily generate $NO_X$ emissions. The quantity of emissions generated daily would vary, depending on the amount and types of construction activities occurring at the same time

Estimated criteria pollutant emissions from the project's onsite and offsite project construction activities were calculated using the California Emissions Estimator Model (CalEEMod), (Version 2022.1.13). CalEEMod is a planning tool for estimating emissions related to land use projects. Model-predicted project emissions are compared with applicable thresholds to assess regional air quality impacts. CalEEMod defaults were used for off-road and on-road construction traffic inputs.

As shown in **Table 4.3-5**, construction emissions would not exceed SCAQMD regional thresholds. Therefore, the project's short-term regional air quality impacts would be less than significant. Refer to **Appendix B1** of this document for air quality calculations.

**Table 4.3-5**
**MAXIMUM DAILY REGIONAL CONSTRUCTION EMISSIONS**

| Construction Activity | Maximum Emissions (lbs/day) | | | | |
|---|---|---|---|---|---|
| | ROG | $NO_x$ | CO | $PM_{10}$ | $PM_{2.5}$ |
| Maximum Emissions, 2023 | 1.32 | 12.6 | 11.9 | 6.01 | 3.14 |
| Maximum Emissions, 2024 | 0.62 | 5.71 | 7.48 | 0.44 | 0.26 |
| *SCAQMD Significance Thresholds* | *75* | *100* | *550* | *150* | *55* |
| **Significant? (Yes or No)** | **No** | **No** | **No** | **No** | **No** |

**Source**: Calculated by UltraSystems with CalEEMod (Version 2022.1.13) (CAPCOA, 2023).

**Regional Operational Emissions**

The project proposes the improvement and modernization of the existing pool facility located at Centennial High School in Corona, California. Centennial High School has a total staff of 229 and serves a 2022-2023 student population of 3,037 in grades 9 through 12 (CDE, 2023). The project would not increase student capacity at the school and would not involve temporary relocation of students or staff during construction.

Operational emissions generated by area sources, motor vehicles and energy demand would result from normal day-to-day activities of the aquatic center. However, the project will not result in an increase in activity, resulting in negligible net changes in operational emissions at the project site. Thus, the operational emissions were not calculated for the project.

**b) Would the project result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?**

**Less Than Significant Impact**

Since the SCAB is currently in nonattainment for ozone, related projects may exceed an air quality standard or contribute to an existing or projected air quality exceedance. The SCAQMD neither recommends quantified analyses of construction and/or operational emissions from multiple development projects, nor provides methodologies or thresholds of significance to be used to assess the cumulative emissions generated by multiple cumulative projects. Instead, the District recommends that a project's potential contribution to cumulative impacts be assessed by utilizing the same significance criteria as those for project-specific impacts. Furthermore, the SCAQMD states that if an individual development project generates less-than-significant construction or operational emissions impacts, then the development project would not contribute to a cumulatively considerable increase in emissions for those pollutants for which the Basin is in nonattainment.

As discussed above, the mass daily construction emissions generated by the project would not exceed any of the SCAQMD's significance thresholds. Also, as discussed below, localized emissions generated

by the Project would not exceed the SCAQMD's Localized Significance Thresholds (LSTs). Therefore, the project would not contribute a cumulatively considerable increase in emissions for the pollutants which the SCAB is in nonattainment, and thus, cumulative air quality impacts associated with the project would be less than significant.

**c) Would the project expose sensitive receptors to substantial pollutant concentrations?**

**Less than Significant Impact**

Construction of the project would generate short-term and intermittent emissions. Following the SCAQMD's *Final Localized Significance Threshold Methodology* (Chico and Koizumi, 2008), only onsite construction emissions were considered in the localized significance analysis. The nearest sensitive receptors to the project site include Centennial High School, the school that the pool is located within.[7] LSTs for projects in Source Receptor Area 22 (Corona/Norco) were obtained from tables in Appendix C of the aforementioned methodology. **Table 4.3-7** shows the results of the localized significance analysis for the project. Localized short-term air quality impacts from construction of the project would be less than significant.

**Table 4.3-7**
**RESULTS OF UNMITIGATED LOCALIZED SIGNIFICANCE ANALYSIS**

| Nearest Sensitive Receptor | Maximum Onsite Construction Emissions (pounds/day) | | | |
|---|---|---|---|---|
| | $NO_X$ | CO | $PM_{10}$ | $PM_{2.5}$ |
| Maximum daily unmitigated emissions | **12.6** | **11.4** | **0.6** | **0.6** |
| *SCAQMD LST for 1 acre @ 25 meters* | *118* | *674* | *4* | *3* |
| **Significant (Yes or No)** | **No** | **No** | **No** | **No** |

**d) Would the project result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?**

**Less than Significant Impact**

A project-related significant adverse effect could occur if construction of the proposed project would result in generation of odors that would be perceptible in adjacent sensitive areas. According to the SCAQMD *CEQA Air Quality Handbook* (SCAQMD, 1993), land uses and industrial operations that are associated with odor complaints include agricultural uses, wastewater treatment plants, food processing plants, chemical plants, composting, refineries, landfills, dairies, and fiberglass molding. Potential sources that may emit odors during construction activities include equipment exhaust. Odors from these sources would be localized and generally confined to the immediate area

7 According to SCAQMD guidance, if the project site is less than one acre, it may be assumed to be one acre as a worst-case scenario and if a receptor closer than 25 meters to the source may be assumed to be 25 meters away (Chico and Koizumi, 2008, p. 3-3). The Project fits these criteria.

surrounding the project. The project would use typical construction techniques, and the odors would be typical of most construction sites and temporary in nature.

The project would not create substantial objectionable odors and this impact would be less than significant.

## 4.4 Biological Resources

| Would the project: | Potentially Significant Impact | Less than Significant with Mitigation Incorporated | Less than Significant Impact | No Impact |
|---|---|---|---|---|
| a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service? | | | **X** | |
| b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the California Department of Fish and Game or US Fish and Wildlife Service? | | | | **X** |
| c) Have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means? | | | | **X** |
| d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native nursery sites? | | | **X** | |
| e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance? | | | | **X** |
| f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan? | | | | **X** |

### Methodology

UltraSystems biologists researched readily available information, including relevant literature, databases, agency websites, various previously completed reports and management plans, GIS data, maps, aerial imagery from public domain sources, and in-house records to identify the following: 1) habitats, special-status plant and wildlife species, jurisdictional waters, critical habitats, and wildlife corridors that may occur in and near the project site; and 2) local or regional plans, policies, and

regulations that may apply to the project. Sources accessed by UltraSystems for analysis of potential impacts within this Initial Study included:

- United States Geological Survey (USGS) 7.5-Minute Topographic Map *Corona South* Quadrangle and current aerial imagery (USGS, 2002; Google Earth Pro, 2023).
- The Web Soil Survey, provided by the United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) (Soil Survey Staff, 2023).
- California Department of Fish and Wildlife (CDFW) BIOS Habitat Connectivity Viewer (CDFW, 2023).
- CDFW Natural Communities List (CDFW, 2022)
- California Natural Diversity Database (CNDDB), provided by the CDFW (CNDDB, 2023a).
- Information, Planning and Conservation (IPaC), provided by the United States Fish and Wildlife Service (USFWS) (USFWS, 2023a).
- National Wetlands Inventory (NWI), provided by the USFWS (USFWS, 2023b).
- Inventory of Rare and Endangered Plants of California, 8th Edition, provided by the California Native Plant Society (CNPS, 2023a).
- A Manual of California Vegetation, Online Edition (CNPS, 2023b).
- National Hydrography Dataset, provided by the USGS (USGS, 2023).
- California Invasive Plant Inventory, provided by the California Invasive Plant Council (Cal-IPC, 2006)
- eBird online database of bird distribution and abundance, provided by Cornell Lab of Ornithology (eBird, 2023).
- eFlora, provided by the Jepson Herbarium (University of California Berkeley; Jepson Flora Project, 2023)
- Sawyer, J.O., T. Keeler-Wolf, J.M. Evens, 2009. A Manual of California Vegetation, Second Edition, provided by California Native Plant Society Press.
- EPA Waters GeoViewer, provided by United States Environmental Protection Agency (USEPA, 2023).
- Western Riverside County Multiple Species Habitat Conservation Plan (MSHCP), prepared by Dudek, and MSHCP Information Map, provided by the Western Riverside County Regional Conservation Authority (Riverside County, 2003; RCA, 2023)

### 4.4.1 Discussion of Impacts

**a) Would the project have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?**

**Less Than Significant**

Plant and wildlife species listed under the federal Endangered Species Act (ESA) or under the California Endangered Species Act (CESA) are referred to as "listed species" in this Section. Plant and wildlife species not listed under ESA or CESA but still protected by federal agencies, state agencies, local or regional plans such as the MSHCP, and/or nonprofit resource organizations, such as the California Native Plant Society (CNPS), are referred to as "sensitive species" in this Section. The term "special-status species" is used when collectively referring to both listed and sensitive species.

**Environmental Setting**

The City of Corona is in northwestern Riverside County, California. Residential developments, paved roadways, landscaped areas, and other Centennial High School facilities/areas surround the project site and compose the biological study area (BSA), shown in **Figure 4.4-1**. The project site is located in a suburban area, and provides low-value habitat for special status plant and wildlife species. The project site itself has a relatively flat topography; elevations on the project site range from 781 feet to 808 feet above mean sea level (AMSL).

**Desktop Literature Review**

UltraSystems Environmental, Inc (UltraSystems) biologists conducted a desktop study to assess the existing conditions of the BSA with regard to biological resources (see **Methodology** above). One land cover type (developed/ornamental) was mapped within the BSA (see **Figure 4.4-2),** which is comprised of paved areas, residential and school structures, ornamental (landscaped) areas, and recreational areas (e.g., baseball fields). There is one tree within the southwest corner of the project site, and multiple trees within the BSA.

**Figure 4.4–1**
**PROJECT LOCATION AND BIOLOGICAL STUDY AREA**



**Figure 4.4–2**
**LAND COVER MAP**



**Impacts to Special Status Plants**

The BSA is comprised of entirely developed/ornamental areas (**See Figure 4.4-2**). The project site contains existing Centennial High School facilities including the aquatic center and a paved parking lot; additional school facilities (including athletic facilities), residential development, paved roadways, associated infrastructure, and associated landscaped areas containing ornamental species. The BSA does not provide suitable habitat for any of the plant species evaluated in the literature review.

Based on a literature review and query in publicly available databases (hereafter, plant inventory; USFWS 2023a; CNDDB 2023a; CNPS, 2023a), there were 32 special-status (8 listed and 24 sensitive) plant species identified within 10 miles of the BSA. These special-status species were identified by one of the following means: reported in the plant inventory, recognized as occurring based on previous surveys or knowledge of the area, or observed during the habitat assessment survey or other surveys. One species, chaparral sand-verbena (*Abronia villosa* var. *aurita*; CRPR 1B.1) has been recorded within a two-mile radius of the BSA; however, this area is now developed and this occurrence of chaparral sand-verbena has likely been extirpated (see **Figure 4.4-3**).

None of the 32 species identified in the database search were determined to have the potential to occur in the BSA; all species that were evaluated for their occurrence potential are listed in **Appendix C**, *Special-Status Species Inventory and Potential Occurrence Determination*.

Because none of the special-status plant species were determined to have the potential to occur within the BSA, it is anticipated that construction of the project will incur no impacts to special-status plant species within the BSA.

**Impacts to Special-Status Wildlife**

**Literature Review Results and Discussion**

Based on a literature review and query from publicly available databases (hereafter, wildlife inventory; USFWS 2023a; CNDDB, 2023a) for reported occurrences, there were 48 special-status (19 listed and 29 sensitive) wildlife species recorded within a 10-mile radius of the BSA. These special-status wildlife species were identified by one of the following means: reported in the wildlife inventory, recognized as occurring based on previous surveys or knowledge of the area, or observed during the habitat assessment survey or other surveys.

Twelve special-status species have been recorded within two miles of the BSA (see **Figure 4.4-4).** Four special-status wildlife species were determined to have a low potential to occur in the BSA: monarch butterfly (*Danaus plexippus* pop. 1); Cooper's hawk (*Accipiter cooperii*); western mastiff bat (*Eumops perotis californicus*); and pallid bat (*Antrozous pallidus*) were determined to have a low potential to occur within the BSA. All species that were evaluated for their occurrence potential are listed in **Appendix C**, *Special-Status Species Inventory and Potential Occurrence Determination*. Therefore, it is anticipated that construction of the project will have less than a significant impact to these special-status wildlife species.

The BSA is developed and is surrounded by developed areas, which significantly limits the availability of foraging habitat for wildlife species within the BSA. In addition, the high level of traffic and traffic noise may render the area as uninhabitable for many special-status species. However, project construction could result in dust, noise, and vibration which may cause indirect impacts to nesting and foraging behavior birds protected under the Migratory Bird Treaty Act (MBTA). The BSA contains large trees and other physical features that could provide foraging, nesting, and cover

habitats that could support various bird species (year-round residents, seasonal residents, and migrants). Birds that may breed within the BSA are protected by the MBTA and Fish and Game Code § 3503, § 3503.5, and § 3513. Project design feature(**PDFBIO-1,** *Pre-Construction Breeding Bird Survey*) would further minimize or avoid potential project impacts to breeding birds to a less than significant level.

**Project Design Feature PDF BIO-1: Pre-Construction Breeding Bird Survey**

To maintain compliance with the MBTA and Fish and Game Code, and to avoid impacts to or take of migratory non-game breeding birds, their nests, young, and eggs, the following Project Design Feature (PDF) will be implemented. This PDF will further minimize or avoid potential direct and indirect construction-related impacts to migratory non-game breeding birds to less than significant levels.

- Project activities that will remove or disturb potential nest sites, such as open ground, trees, shrubs, grasses, or burrows, during the breeding season would be a potentially significant impact if migratory non-game breeding birds are present. Project activities that will remove or disturb potential nest sites will be scheduled outside the breeding bird season to avoid potential direct impacts to breeding birds protected by the MBTA and Fish and Game Code. The breeding bird nesting season is typically from February 15 through September 15, but can vary slightly from year to year, usually depending on weather conditions. Removal of trees, shrubs, etc. that could potentially serve as nest sites will prevent birds from nesting within the project site during the breeding season and during construction activities.

- If project activities cannot be avoided from February 15 through September 15, a qualified biologist will conduct a pre-construction breeding bird survey for breeding birds and active nests or potential nesting sites within the limits of project disturbance. The survey will be conducted at least seven days prior to the onset of scheduled activities, such as mobilization and staging. It will end no more than three days prior to vegetation, substrate, and structure removal and/or disturbance.

- If no breeding birds or active nests are observed during the pre-construction surveys, or they are observed but will not be impacted, project activities may begin and no mitigation will be required.

**Figure 4.4-3**
**CNDDB KNOWN OCCURRENCES PLANT SPECIES AND HABITATS**

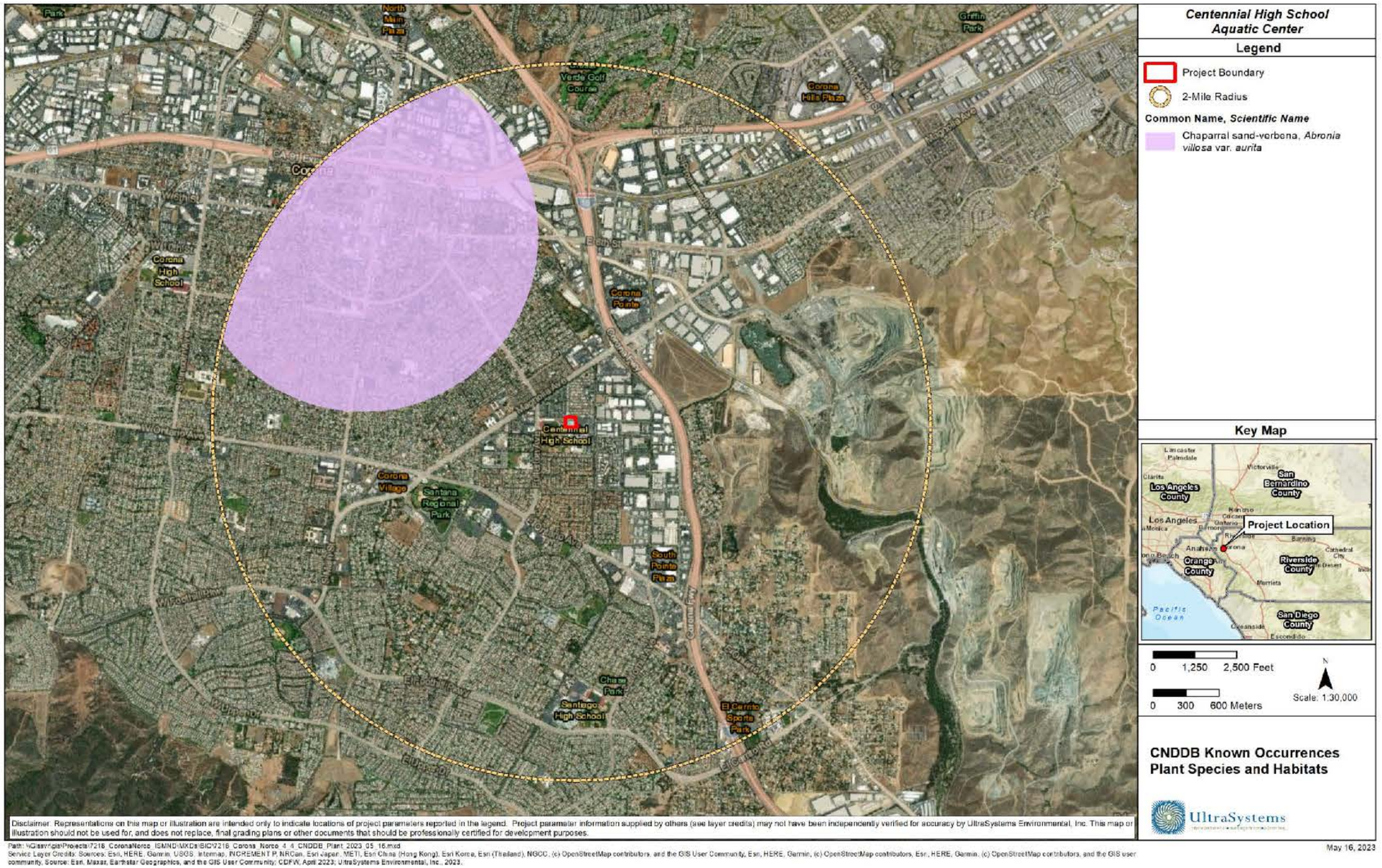
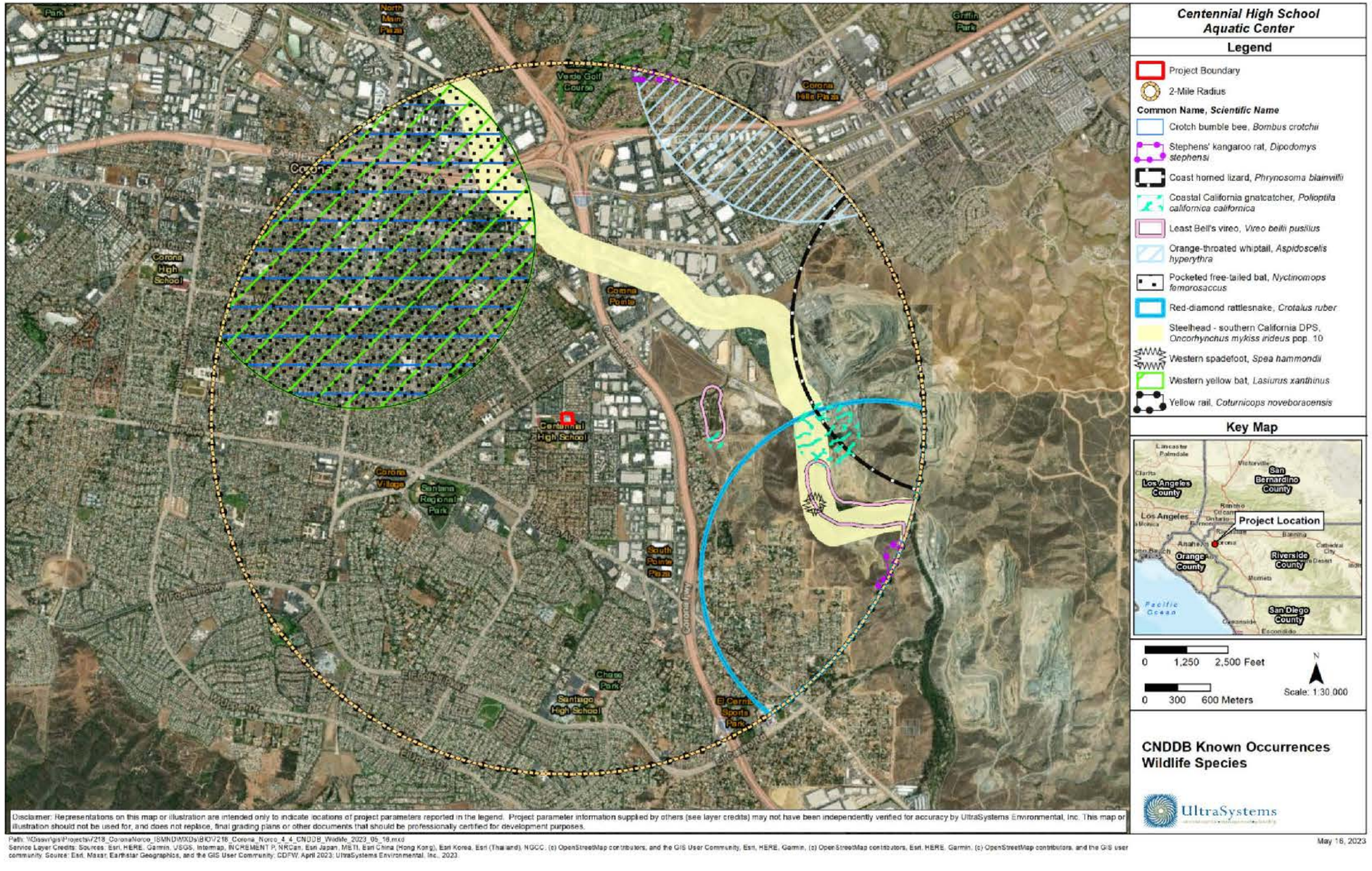


**Figure 4.4-4**
**CNDDB KNOWN OCCURRENCES WILDLIFE SPECIES**



- If a breeding bird territory or an active bird nest is located during the pre-construction survey and would be impacted, the site(s) will be mapped on engineering drawings and a no-activity buffer zone will be marked (fencing, stakes, flagging, orange snow fencing, etc.) a minimum of 100 feet in all directions for birds and 500 feet in all directions for raptors. The biologist will determine the appropriate buffer size based on the type of activities planned near the nest and the species of bird that created the nest. Some bird species are more tolerant than others of noise and activities occurring near their nest. This no-activity buffer zone will not be disturbed until a qualified biologist has determined that the nest is inactive, the young are no longer being fed by the parents, the young have fledged, the young have left the area, or the young will no longer be impacted by project activities. Periodic monitoring by a biologist will be performed to determine when nesting cycle is complete. Once the nesting cycle has finished, project activities may begin within the buffer zone(s).

- If special-status bird species are observed within the project site during the pre-construction survey, the biologist will immediately map the area and notify the appropriate resource agency to determine suitable protection measures and/or mitigation measures, and determine if additional surveys or focused protocol surveys are necessary. Project activities may begin within the area once concurrence is received from the appropriate resource agency.

- Birds or their nests will not be disturbed, captured, handled, or moved. Active nests cannot be removed or disturbed. Inactive nests can be removed or disturbed by a qualified biologist if the nest is determined to be inactive.

**b) Would the project have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?**

**No Impact**

**Land Cover Type Mapping**

One land cover type, Developed/Ornamental, was mapped within the BSA (see **Figure 4.4-2** *Land Cover Types*). This land cover type is not classified as sensitive in the CDFW *California Natural Community List* (CDFW, 2022) or other local or regional plans, policies, or regulations, nor is it a riparian habitat.

***Developed/Ornamental***: Developed/ornamental land cover type may generally include man-made structures such as houses, sidewalks, buildings, parks, water tanks, flood control channels, transportation infrastructure (roads, bridges), and ornamental landscaping consisting of exotic or non-native plant species that occurs in parks, gardens, buildings, and parking lots. Ornamental trees are those propagated for aesthetic purposes typically in landscape design projects and gardens. Approximately 34.84 acres of developed/ornamental land cover were mapped within the BSA (Google Earth Pro, 2023).

The BSA does not support riparian habitat or other sensitive natural communities (CDFW, 2022; Google Earth, 2023). Therefore, construction of the project would not result in impacts to riparian

habitat or sensitive natural communities identified in local, regional state, or federal plans, policies, or regulations. No impact would occur and mitigation is not proposed.

**c) Would the project have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?**

**No Impact**

The BSA does not contain drainages, depressions, or wetlands (USEPA, 2023; USFWS, 2023b). No impact would occur and mitigation is not required.

**d) Would the project interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?**

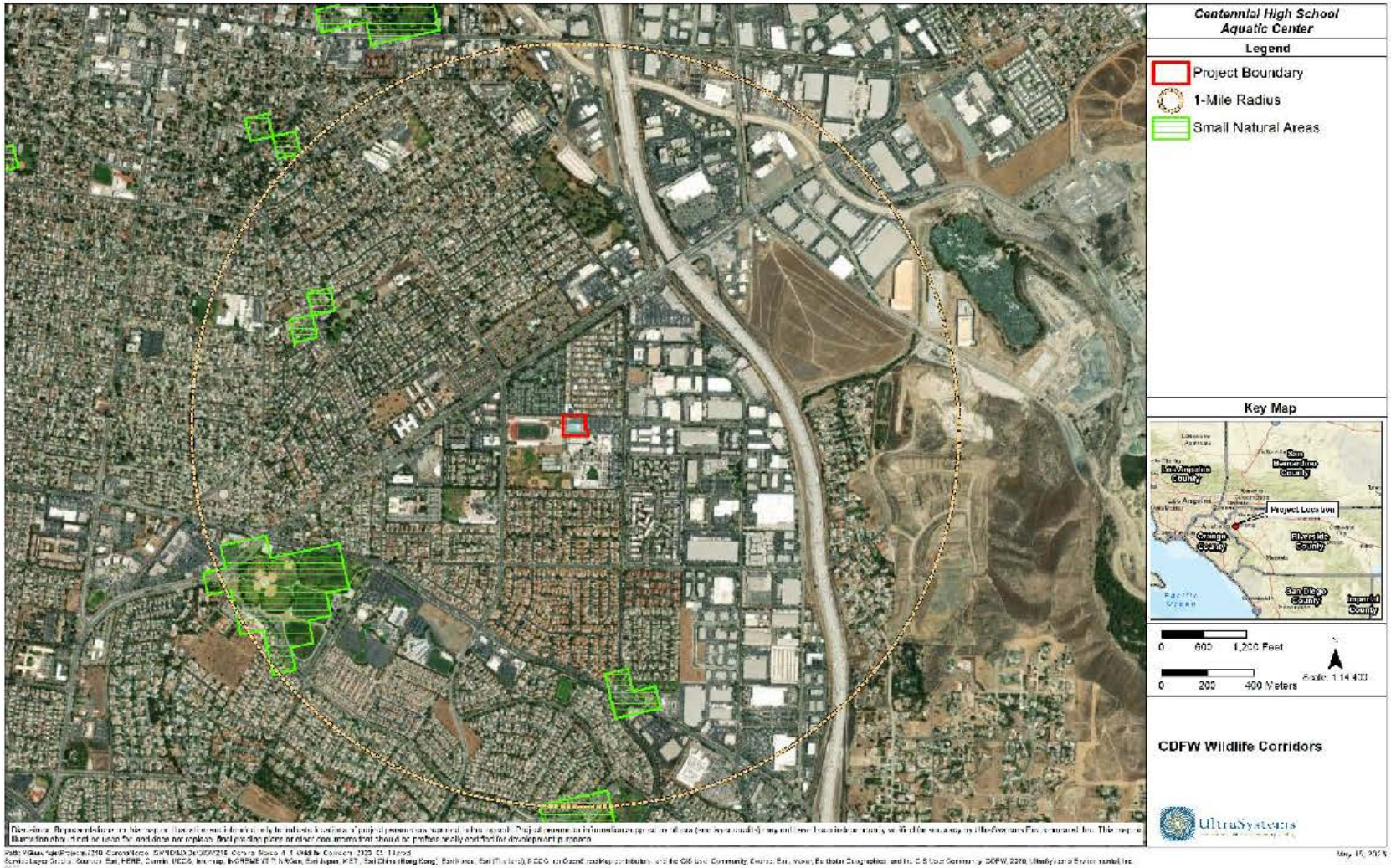
**Less Than Significant Impact**

Reports, information, and databases associated with the MSHCP and the Western Riverside County – Regional Conservation Authority (RCA) MSHCP Information Map (MSHCP Information Map) located on the RCA website were used to identify criteria areas within the BSA (RCA, 2023). Per the MSHCP Information Map, the project site is not within a proposed/existing core, habitat block, or linkage. Existing Core Area A is located approximately 7.5 miles northwest of the project site, and consists of Prado Basin and the Santa Ana River, located in the northwest region of the Plan Area. Proposed Constrained Linkage 4 is located approximately 1.4 miles east of the project site, and is comprised of the portion of Temescal Wash extending from Indiana Avenue to El Cerrito Road (Riverside County, 2003). In addition, the BSA does not overlap with Essential Connectivity Areas or other CDFW Wildlife Corridors (CDFW, 2023). See **Figure 4.4-5**.

The project is in a developed area and, while the project site does not function as a wildlife corridor, it may function as a local movement corridor for larger mammals (e.g., coyote [*Canis latrans*]) for hunting and foraging; however, project development would not impede the use of the BSA as a local movement corridor. Construction and operation of the proposed project would not interfere with the movement of native resident or migratory fish or wildlife species or with native resident or migratory wildlife corridors. No impact would occur, and mitigation is not proposed.

The project site and BSA do not contain habitat suitable to support wildlife nursery sites, and impacts to native wildlife nursery sites are not anticipated as a result of the project. The project would not result in impacts to native nursery sites, and mitigation is not required.

**Figure 4.4-5**
**CDFW WILDLIFE CORRIDORS**



**e) Would the project conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?**

**No Impact**

The project site contains one tree in the southwest corner; however, as designed, this tree is not within project demolition or grading plans and no impacts to this tree are anticipated. The project would not conflict with local policies or ordinances, such as the Corona Code of Ordinances, Chapter 12.22 Community Urban Forest and Landscape Guidelines or the Urban Forest Management Plan (City of Corona; 2021b, c). No impact would occur and mitigation is not required.

**f) Would the project conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?**

**No Impact**

The project site is located within the Temescal Canyon Area Plan of the Western Riverside County MSHCP (RCA, 2023). Each project located within the plan area must be consistent with the MSHCP. **Table 4.4-1** provides a list of MSHCP conditions that were considered for this analysis. As indicated, none of the listed conditions are present.

**Table 4.4-1**
**MSHCP PROJECT REVIEW CHECKLIST**

| MSHCP Conditions | Yes | No |
|---|---|---|
| Are riverine/riparian/wetland habitats or vernal pools present? | | ✓ |
| Is the project located in Narrow Endemic Plant Species Survey Area? | | ✓ |
| Is the project located in a Criteria Area or Public/Quasi-Public Land? | | ✓ |
| Is the project located in Criteria Amphibian Survey Area? | | ✓ |
| Is the project located in Criteria Burrowing Owl Survey Area? | | ✓ |
| Is the project located in Criteria Mammal Survey Area? | | ✓ |
| Is the project located adjacent to MSHCP Conservation Areas? | | ✓ |

**Source**: MSHCP Information Map, provided by the Western Riverside County Regional Conservation Authority (RCA, 2023)

**MSHCP Plant and Wildlife Species**

Based on the results of a literature review and desktop study, UltraSystems biologists determined that construction of the project would not impact MSHCP plant and wildlife species due to lack of natural habitat to support special-status plants and wildlife, or native vegetation communities, nor does the BSA contain riverine, riparian, or wetland habitats (including vernal pools).

**MSHCP Vernal Pools**

The BSA was assessed for areas that would meet the MSHCP's definition of vernal pools and fairy shrimp habitat during the habitat assessment and other field surveys. It was determined that the BSA does not contain vernal pools or wetlands that could support fairy shrimp species and none are expected to occur on the project site; therefore, listed fairy shrimp such as the Riverside fairy shrimp, Santa Rosa Plateau fairy shrimp, and vernal pool fairy shrimp are not expected to be present within the BSA. No impact to MSHCP vernal pools is anticipated, and therefore no mitigation is proposed.

**MSHCP Resources**

As indicated above in **Table 4.4-1**, the BSA is not located within riparian/wetland areas, Public/Quasi-Public Land or Criteria Areas.[8] In addition, the BSA is not located within MSHCP Survey Areas for amphibians, burrowing owl, narrow endemic plants, or mammals. Lastly, the BSA is not located within or adjacent to MSHCP Conservation Areas. No impact to the abovementioned MSHCP resources is anticipated, and therefore no mitigation is proposed.

[8] While the District is a public agency, the Centennial High School campus is only open to District students, parents, faculty, and staff. Therefore, the campus is not considered public or quasi-public land.

## 4.5 Cultural Resources

| Would the project: | Potentially Significant Impact | Less than Significant Impact with Mitigation Incorporated | Less than Significant Impact | No Impact |
|---|---|---|---|---|
| a) Cause a substantial adverse change in the significance of a historical resource pursuant to in § 15064.5? | | | | **X** |
| b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to § 15064.5? | | **X** | | |
| c) Disturb any human remains, including those interred outside of formal cemeteries? | | **X** | | |

Information from UltraSystems' Draft Cultural Resources Inventory Report, dated August 9 2023 (see **Appendix D1**), prepared for the Centennial High School Aquatics Center Corona-Norco Unified School District (District), City of Corona has been included within this section.

### 4.5.1 Methodology

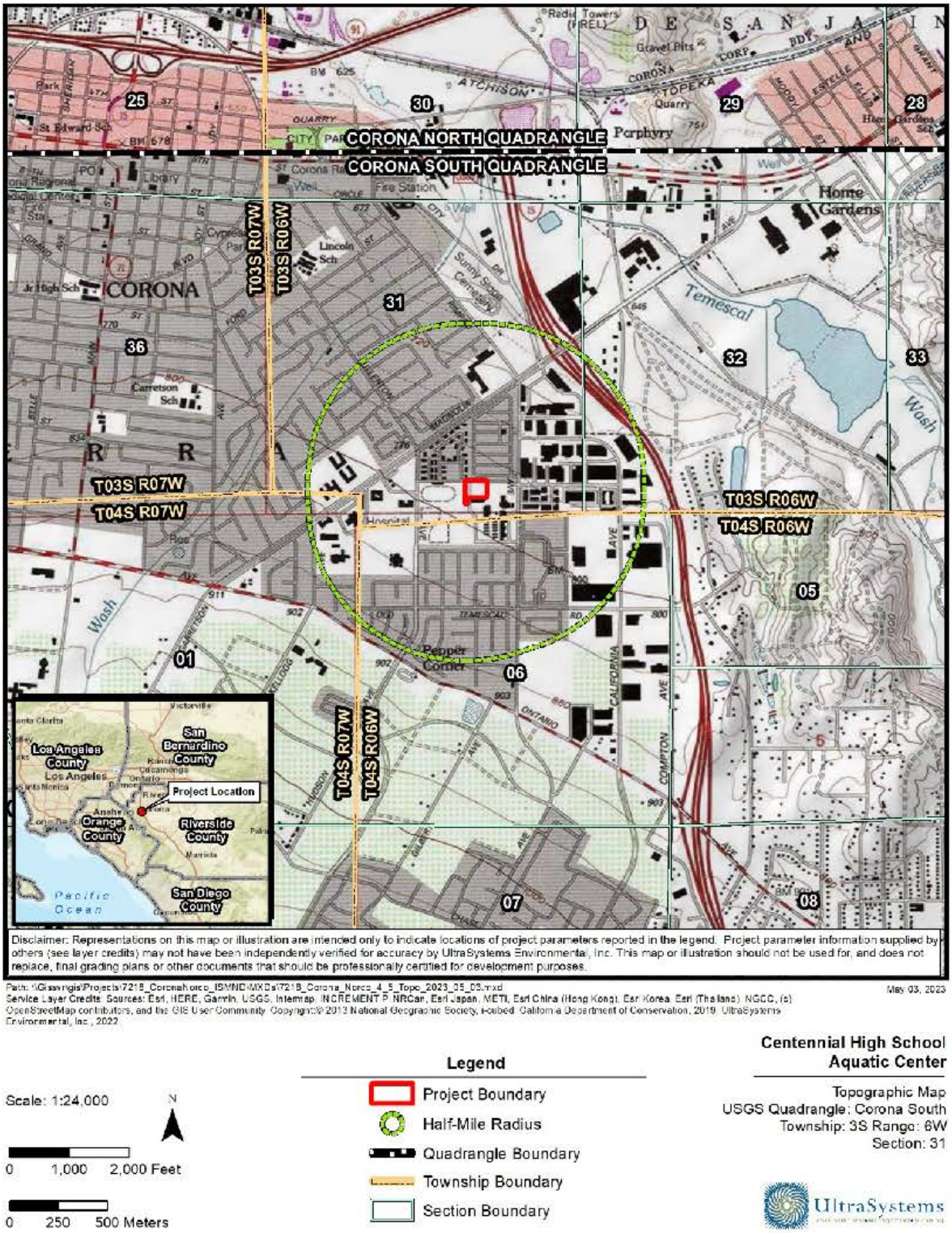
A cultural resources inventory was requested April 14, 2023, for the Centennial High School Aquatics Center Corona-Norco Unified School District site (**Figure 4.5-1,** *Topographic Map*) that would include a California Historic Resources Inventory System (CHRIS) records and literature search at the Eastern Information Center (EIC) at the University of California Riverside, a search by the Native American Heritage Commission (NAHC) of their Sacred Lands File (SLF) for potential traditional cultural properties as well as to provide a list of local Native American tribal organizations to contact; and a pedestrian survey of the project site.

The EIC records search request was made May 3, 2023 for the area within the project boundary (the Area of Potential Effect [APE] and a 0.5-mile buffer surrounding the APE) and the results were received August 2, 2023. The NAHC request was made on May 5, 2023, and a reply was received on June 1, 2023; letters were sent to the listed tribes on June 2, 2023 and follow-up telephone calls were conducted following conclusion of the 30-day response period on July 12, 2023. A pedestrian field survey of the project site was conducted on July 12, 2023.

### 4.5.2 Existing Conditions

A cultural resources records search was requested from the EIC, the local California Historical Resources Information System facility, on March 3, 2023, and the results were received August 2, 2023. There are no prehistoric or historic sites recorded with the project APE (see **Section 4.1** and **Tables 4.1-1** and **Table 4.1-2** in **Appendix D1**). The result of the pedestrian survey was negative for both prehistoric and historic sites and isolates (see **Section 4.3** in **Appendix D1**).

**Figure 4.5-1**
**TOPOGRAPHIC MAP**



### 4.5.3 Impact Analysis

**g) Would the project cause a substantial adverse change in the significance of a historical resource pursuant to in § 15064.5?**

**No Impact**

A historical resource is defined in § 15064.5(a)(3) of the *CEQA Guidelines* as any object, building, structure, site, area, place, record, or manuscript determined to be historically significant or significant in the architectural, engineering, scientific, economic, agricultural, educational, social, political, military, or cultural annals of California. Historical resources are further defined as being associated with significant events, important persons, or distinctive characteristics of a type, period or method of construction; representing the work of an important creative individual; or possessing high artistic values. Resources listed in or determined eligible for the California Register, included in a local register, or identified as significant in a historic resource survey are also considered as historical resources under CEQA.

Similarly, the National Register criteria (contained in Code of Federal Regulations Title 36 Section 60.4) are used to evaluate resources when complying with Section 106 of the National Historic Preservation Act. Specifically, the National Register criteria state that eligible resources comprise districts, sites, buildings, structures, and objects that possess integrity of location, design, setting, materials, workmanship, feeling, and association, and that (a) 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 possess high artistic values, or that represent a significant distinguishable entity whose components may lack individual distinction; or (d) that have yielded or may be likely to yield, information important to history or prehistory.

A substantial adverse change in the significance of an historical resource, as a result of a project or development, is considered a significant impact on the environment. Substantial adverse change is defined as physical demolition, relocation, or alteration of a resource or its immediate surroundings such that the significance of the historical resource would be materially impaired. Direct impacts are those that cause substantial adverse physical change to a historic property. Indirect impacts are those that cause substantial adverse change to the immediate surroundings of a historic property, such that the significance of a historical resource would be materially impaired.

The project site and area remained orchard farm land until approximately 1980 when the Centennial High School was built. No structures on the high school campus are 50 years or older.

It was determined through the cultural resources records search conducted by the EIC that there are no historic sites with the project APE. Within the 0.5-mile buffer area of the project site there is the Corona Historic District (33-6444), centered on Lincoln Avenue in the old downtown district of Corona; this touches upon the project's buffer area to the northwest but does not include the Centennial High School campus (see **Table 4.1-1** in **Appendix D1**).

**h) Would the project cause a substantial adverse change in the significance of an archaeological resource pursuant to § 15064.5?**

**Less than Significant Impact with Mitigation Incorporated**

An archaeological resource is defined in § 15064.5(c) of the CEQA Guidelines as a site, area or place determined to be historically significant as defined in § 15064(a) of the CEQA Guidelines, or as a unique archaeological resource defined in § 21083.2 of the Public Resources Code as an artifact, object, or site that contains information needed to answer important scientific research questions of public interest or that has a special and particular quality such as being the oldest or best example of its type, or that is directly associated with a scientifically-recognized important prehistoric or historic event or person.

The past singular use of the project site for agriculture suggests that ground on the project site had been minimally disturbed until the school and pool facilities were installed which involved extensive grading. When the CHRIS records search results are received an updated IS/MND will use the results to describe any potential for encountering undisturbed unique archeological resources on the project site during this new construction work.

As noted, a cultural resources records search was requested from the EIC, the local CHRIS facility, on March 3, 2023, and the results were received on August 2, 2023 from Administrative Coordinator Assistant Eulices Lopez. It was determined that there are no prehistoric or historic sites with the project APE. Also, there are no known prehistoric sites within the 0.5-mile buffer of the project. The Corona Historic District (33-6444), centered on Lincoln Avenue in the old downtown district of Corona, does touch upon the project's buffer area to the northwest but does not include the Centennial High School campus (see **Table 4.1-1** in **Appendix D1**).

A NAHC SLF search for the presence of a recorded traditional cultural property was conducted within the area of the Project site. The NAHC letter of June 1, 2023 indicated the result of the search was negative. Thirty six representatives of 24 Native American tribes were contacted requesting a reply if they have knowledge of cultural resources in the area that they wished to share and asking if they had any questions or concerns regarding the project. These tribes included:

- Agua Caliente Band of Cahuilla Indians
- Augustine Band of Cahuilla Mission Indians
- Cabazon Band of Mission Indians
- Cahuilla Band of Indians
- Gabrieleno Band of Mission Indians - Kizh Nation
- Gabrieleno/Tongva San Gabriel Band of Mission Indians
- Gabrielino /Tongva Nation
- Gabrielino Tongva Indians of California Tribal Council
- Gabrielino-Tongva Tribe
- Juaneño Band of Mission Indians
- Juaneño Band of Mission Indians Acjachemen Nation
- Juaneño Band of Mission Indians Acjachemen Nation 84A
- La Jolla Band of Luiseño Indians
- Los Coyotes Band of Cahuilla and Cupeño Indians
- Morongo Band of Mission Indians
- Santa Rosa Band of Mission Indians
- Pala Band of Mission Indians
- Pauma Band of Luiseño Indians – Pauma & Yuima Reservation
- Pechanga Band of Mission Indians
- Quechan Tribe of the Fort Yuma Reservation
- Ramona Band of Cahuilla
- Soboba Band of Luiseño Indians
- Rincon Band of Luiseño Indians
- Torres-Martinez Desert Cahuilla Indians

There have been seven responses from the 24 tribes to the outreach contacts. Xitlaly Madrigal, Cultural Resources Analyst for the Agua Caliente Band of Cahuilla Indians replied by email on June 5, 2023 indicating that this project is not located within the Tribe's Traditional Use Area and deferring to the other tribes in the area. Ana Rios, Administrative Assistant for the Augustine Band of Cahuilla Mission Indians replies by email on June 2, 2023 with an attached letter from Geramy Martin, Tribal Secretary on behalf of Chairperson Amanda Vance indicating that the tribe is unaware of specific cultural resources that may be affected by the proposed project and if discovery of any cultural resources are encountered during the development of this project to contact them. An email response was received from the Gabrieleno Band of Mission Indians - Kizh Nation on June 5, 2023 asking for the lead agencies contact information; this information was provided on the same day. Christina Conley, Cultural Resource Administrator for the Gabrielino Tongva Indians of California Tribal Council responded by email on June 2, 2023 on behalf of Chairperson Robert Dorame indicating that the tribe defers their comments to sister tribes. Dorothy Willis with the Los Coyotes Band of Cahuilla and Cupeño Indians responded by email on June 5, 2023 on behalf of Chairperson Ray Chapparosa indicating that an official response is pending but due to the location, most likely the tribe will defer to the local tribe. John Pepper, Lead Cultural Resources Monitor with the Pala Band of Mission Indians responded by email on June 8, 2023 with a letter from Shasta Gaughen, THPO indicating that the project as described is not within the boundaries of the recognized Pala Indian Reservation, and it is also beyond the boundaries of the territory that the tribe considers its Traditional Use Area. Jill McCormick, Historic Preservation Officer Quechan Tribe of the Fort Yuma Reservation responded by email on June 5, 2023 on behalf of President Jordan Joaquin and Acting Chairman Manfred Scott indicating that they do not wish to comment on this Project and defer to the more local Tribes. Shuuluk Linton, Tribal Historic Preservation Officer with Rincon Band of Luiseño Indians the responded by email on June 13, 2023 on behalf of Tribal Council Joseph Linton, and THPO Cheryl Madrigal indicating that the project area is within the Traditional Use Area of the Luiseño people and within the Tribe's specific Area of Historic Interest but that they have no cultural resource information to provide at this time and have no comments.

Following up the letter and email contacts, telephone calls were conducted on July 12, 2022 to those tribes who had not previously replied by email or letter and had provided telephone numbers. These calls were to the 21 tribal contacts who had not already responded to UltraSystems' mailing and email. Thirteen of the telephone calls got no answer and so messages were left describing the project and requesting a response. These were to Chairperson Doug Welmas with the Cabazon Band of Mission Indians, Chairperson Daniel Salgado with the Cahuilla Band of Indians, Chairperson Anthony Morales with the Gabrieleno/Tongva San Gabriel Band of Mission Indians, Chairperson Heidi Lucero with the Juaneño Band of Mission Indians Acjachemen Nation 84A, Tribal Manager Joyce Perry with the Juaneño Band of Mission Indians Acjachemen Nation, Chairperson Norma Contreras with the La Jolla Band of Luiseño Indians, Chairperson Robert Martin with the Morongo Band of Mission Indians, THPO Ann Brierty with the Morongo Band of Mission Indians, Chairperson Temet Aguilar with the Pauma Band of Luiseño Indians-Pauma & Yuima Reservation, Cultural Resources Manager Paul Macarro with the Pechanga Band of Mission Indians, Chairperson Mark Macarro with Pechanga Band of Mission Indians, Chairperson Joseph Hamilton with the Ramona Band of Cahuilla, and Environmental Coordinator John Gomez with the Ramona Band of Cahuilla. In a call to Chairperson Sandonne Goad with the Gabrielino/Tongva Nation, a call was made and no message was left because the voicemailbox was full. A call to Chairperson Charles Alvarez with the Gabrielino-Tongva Tribe was not completed as the phone line was disconnected. In a call to the Torres-Martinez Desert Cahuilla Indians Cultural Committee there was no answer and there was no answering machine available to leave a message. For Chairperson Sonia Johnston with the Juaneño Band of Mission Indians no phone number was provided. In a call to Tribal Chair Lovina Redner with the Santa Rosa

Band of Mission Indians the tribal receptionist indicated that Tribal Chair Redner was not in the office and the best way to contact her is through email.

In a call to Cultural Resource Director Sam Dunlap with the Gabrielino-Tongva Tribe, he indicated that he does not have a specific concern for this project. In a call to Joseph Ontiveros with the Cultural Resource Department for Soboba Band of Luiseño Indians, Mr. Ontiveros indicated that the tribe has no concerns with this project.

An email from Laura Chatterton, Cultural Resource Specialist with the Morongo Band of Mission Indians, was received by S. O'Neil on August 8, 2023 stating that the project is within Cahuilla and Serrano ancestral territory and traditional use area and that the area is regarded as highly sensitive for cultural resources. The email stated they want to have AB 52 consultation with the Lead Agency and provided a list of items they will request at that time. The email was acknowledged by Mr. O'Neil on August 9, 2023 noting that the Lead Agency is the Corona-Norco Unified School District, and the email was forwarded to the District that same day.

There have been no further responses to date (see contact record table in **Attachment C**, **Appendix D1**).

A pedestrian field survey of the project site was conducted on July 12, 2023. The site is dominated by the current facilities, with driveways along the south and east sides; the west side also has a driveway and some parking spaces, while to the north is a large parking area. The only surface soil available for inspection was situated on the far side of the east driveway consisting of a landscape bed with a sidewalk along the edge of a school building, and along the west edge of the driveway on the west side of the facility. There was no ground surface visibility during this survey. During the survey it was observed that the land in the area of the current pool facilities and surrounding parking lot had been heavily graded in the past to make it flat for the high school campus construction an area of hilly topography. The result of the pedestrian survey was negative for both prehistoric and historic sites and isolates.

Grading activities could cause new subsurface disturbance and may result in the unanticipated discovery of prehistoric and/or historic archeological resources. Mitigation Measure **MM CUL-1** addresses this issue.

**Mitigation Measure**

**MM CUL-1** If archaeological resources are discovered during construction activities, the contractor will halt construction activities in the immediate area and notify the District. The project applicant shall retain an archaeologist who meets the Secretary of the Interior's Professional Qualifications Standards for Archaeology who will be notified and afforded the necessary time to recover, analyze, and curate the find(s). The qualified archaeologist will recommend the extent of archaeological monitoring necessary to ensure the protection of any other resources that may be in the area. Any identified cultural resources shall be recorded on the appropriate DPR 523 (A-L) form and filed with the Eastern Information Center. Construction activities may continue on other parts of the project site while evaluation and treatment of prehistoric archaeological resources takes place.

**Level of Significance After Mitigation**

With implementation of Mitigation Measure **MM CUL-1** above, the project would result in less than significant impacts to archeological resources.

**i) Would the project disturb any human remains, including those interred outside of formal cemeteries?**

**Less than Significant Impact with Mitigation Incorporated**

As previously discussed in **Section 4.5.b)** above**,** the project would be built on highly disturbed land that has not been previously graded and is in a suburban area. No human remains have been previously identified or recorded onsite.

The project proposes grading activities for the installation of a new pool structure and associated facilities. Grading would involve new subsurface disturbance and could result in the unanticipated discovery of unknown human remains, including those interred outside of formal cemeteries. In the unlikely event of an unexpected discovery, implementation of mitigation measure **CUL-2** would ensure that impacts related to the accidental discovery of human remains would be less than significant.

California Health and Safety Code § 7050.5 specifies the procedures to follow during the unlikely discovery of human remains. CEQA § 15064.5 describes determining the significance of impacts on archeological and historical resources. California Public Resources Code § 5097.98 stipulates the notification process during the discovery of Native American human remains, descendants, disposition of human remains, and associated grave goods. Mitigation Measure **MM CUL-2** addresses this issue.

**Mitigation Measure**

**MM CUL-2** If human remains are encountered during excavations associated with this project, all work will stop within a 30-foot radius of the discovery and the Riverside County Coroner will be notified (§ 5097.98 of the Public Resources Code). The Coroner will determine whether the remains are recent human origin or older Native American ancestry. If the coroner, with the aid of the supervising archaeologist, determines that the remains are prehistoric, they will contact the NAHC. The NAHC will be responsible for designating the Most Likely Descendant (MLD). The MLD (either an individual or sometimes a committee) will be responsible for the ultimate disposition of the remains, as required by § 7050.5 of the California Health and Safety Code. The MLD will make recommendations within 24 hours of their notification by the NAHC. These recommendations may include scientific removal and nondestructive analysis of human remains and items associated with Native American burials (§ 7050.5 of the Health and Safety Code).

**Level of Significance After Mitigation**

With adherence to applicable codes and regulations protecting cultural resources and with implementation of Mitigation Measure **MM CUL-2** above, the proposed project would result in less than significant impacts to human remains.

## 4.6 Energy

| Would the project: | Potentially Significant Impact | Less than Significant Impact with Mitigation Incorporated | Less than Significant Impact | No Impact |
|---|---|---|---|---|
| a) Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation? | | | X | |
| b) Conflict with or obstruct a state or local plan for renewable energy or energy efficiency? | | | X | |

**a) Would the project result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?**

**Less than Significant Impact**

According to CEQA Guidelines § 15126.2(d), "uses of nonrenewable resources during the initial and continued phases of the project may be irreversible since a large commitment of such resources makes removal or nonuse thereafter unlikely. Primary impacts and, particularly, secondary impacts (such as highway improvement that provides access to a previously inaccessible area) generally commit future generations to similar uses. Also, irreversible damage can result from environmental accidents associated with the project. Irretrievable commitments of resources should be evaluated to assure that such current consumption is justified." Therefore, the purpose of this analysis is to identify any significant irreversible environmental effects of project implementation that cannot be avoided.

**Electricity**

**Construction Use**

Southern California Edison (SCE) will provide electric power for the proposed project. Temporary electric power for as-necessary lighting and electronic equipment would be provided by SCE. The amount of electricity used during construction would be minimal, as demand would stem primarily from use of electrically powered hand tools. The electricity used for construction activities would be temporary and minimal; project construction would not result in wasteful, inefficient, or unnecessary consumption of electricity. Therefore, impacts would be less than significant.

**Operational Use**

Project operation would require electricity for multiple purposes including, but not limited to, building heating and cooling, lighting, appliances, and electronics. Additionally, the supply, conveyance, treatment, and distribution of water used by the project would indirectly result in electricity usage. However, the project will not result in an increase in the number of students or

faculty or use of the pool facility; as a result, there will be a negligible change in operational electricity use at the project site. Thus, operational electricity use was not calculated for the project.

**Natural Gas**

**Construction Use**

Southern California Gas Company (SoCalGas) will provide natural gas for the proposed project. Construction activities, including the construction of new buildings and facilities, typically do not involve the consumption of natural gas. Any minor amounts of natural gas that may be consumed as a result of project construction would be temporary and negligible and would not have an adverse effect; therefore, construction would not result in wasteful, inefficient, or unnecessary consumption of natural gas, and impacts would be less than significant.

**Operational Use**

Natural gas consumption during operation would be required for various purposes, including building heating and cooling. However, the project will not result in an increase in swimming pool activity, resulting in negligible changes in operational natural gas at the project site. Thus, operational natural gas use was not calculated for the project.

**Petroleum**

**Construction Use**

Petroleum-based fuel consumed by construction equipment would be the primary energy resource expended over the course of construction. Transportation of construction materials and construction workers would also result in petroleum consumption. Heavy-duty construction equipment, vendor trucks, and haul trucks would use diesel fuel. Construction workers would likely travel to and from the project area in gasoline-powered vehicles. Construction for the proposed project is anticipated to take about 14 months, from October 2023 to December 2024. Because of the short-term nature of construction and relatively small scale of the project, the project's petroleum consumption would be negligible when compared to California's daily total use of approximately 1.8 million barrels of petroleum.

During project construction, trucks and construction equipment would be required to comply with the ARB's anti-idling regulations. The ARB's In-Use Off-Road Diesel Fueled Fleets regulation would also apply (ARB, 2016). Vehicles driven to or from the project site (delivery trucks, construction employee vehicles, etc.) are subject to fuel efficiency standards established by the Federal Government. Therefore, project construction activities regarding fuel use would not result in wasteful, inefficient, or unnecessary consumption, and impacts would be less than significant.

**Operational Use**

During operations, the majority of fuel consumption resulting from the project would involve the use of motor vehicles traveling to and from the project site, as well as fuels used for alternative modes of transportation that may be used by employees and visitors to the project site. However, the project will not result in an increase in activity, resulting in negligible changes in vehicle miles traveled. Thus, operational fuel use was not calculated for the project.

**b) Would the project conflict with or obstruct a state or local plan for renewable energy or energy efficiency?**

**Less than Significant Impact**

The proposed project would be in compliance with the California Green Building Standards (CALGreen) Code (California Code of Regulations, Title 24, Part 11), which includes mandatory measures for both residential and nonresidential site development, energy efficiency, water efficiency and conservation, material conservation and resource efficiency, and environmental quality (CDHCD, 2021). Therefore, the proposed project would not conflict with or obstruct an applicable state or local plan for renewable energy or energy efficiency, and there would be a less than significant impact in this regard.

## 4.7 Geology and Soils

| Would the project: | Potentially Significant Impact | Less than Significant Impact with Mitigation Incorporated | Less than Significant Impact | No Impact |
|---|---|---|---|---|
| a) Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving: | | | | |
| i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42. | | | **X** | |
| ii) Strong seismic ground shaking? | | | **X** | |
| iii) Seismic-related ground failure, including liquefaction? | | | **X** | |
| iv) Landslides? | | | | **X** |
| b) Result in substantial soil erosion or the loss of topsoil? | | | **X** | |
| c) Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on or off-site landslide, lateral spreading, subsidence, liquefaction or collapse? | | **X** | | |
| d) Be located on expansive soil, as defined in Table 18-1 B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property? | | **X** | | |
| e) Have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water? | | | | **X** |
| f) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature? | | **X** | | |

The information in this section is based on the following technical report:

- Geotechnical Investigation Report, Proposed Aquatic Center Project, Centennial High School, Assessor's Parcel Number (APN): 107-140-032, 1820 Rimpau Avenue, City of Corona,

Riverside County, California 92881. Prepared by Leighton Consulting, Inc. (LCI). Dated September 2, 2022, revised February 15, 2023. Prepared for Corona-Norco Unified School District. A complete copy of this report is included as **Appendix E1** to this IS/MND.

**1) Would the project directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:**

**i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.**

**Less than Significant Impact**

The Alquist-Priolo Zones Special Studies Act defines active faults as those that have experienced surface displacement or movement during the last 11,000 years. As shown in **Figure 4.7-1**, **t**he project site is located 2.7 miles from the nearest Alquist-Priolo Earthquake Fault Zone (Main Street Fault).

One of the primary seismic hazards for this region is surface fault rupture. The California Geological Survey (CGS) and Riverside County have both mapped the site to be outside of an Alquist-Priolo Earthquake Fault Zone. Additionally, published geologic mapping has not indicated faults transecting or trending towards the site and no mapped faults or Alquist-Priolo zones transect or project through the project site. The closest mapped active or potentially active fault traces are the Chino section (located 2.4 miles from the project site), and the Glen Ivy and Whittier sections (located 3.0 miles from the project site) of the Elsinore fault zone (LCI 2023, pp. 8-9). Project development would not exacerbate risks from surface rupture of a known active fault. Impacts would be less than significant and no mitigation is required.

**ii) Strong seismic ground shaking?**

**Less than Significant Impact**

As shown in **Figure 4.7-2**, the project is located within a seismically active region of Southern California, and all structures in the region are susceptible to collapse, buckling of walls, and damage to foundations from strong ground shaking. Several active or potentially active faults have been mapped in the region. The site is located approximately 2.4 miles northeast of the Chino section and approximately 3.0 miles east of the Whittier section of the Elsinore fault zone. The site is also located approximately 26.6 miles southwest of the closest section of the San Andreas fault zone (LCI 2023, p. 5).

**Figure 4.7-1**
**ALQUIST PRIOLO EARTHQUAKE FAULT ZONES**

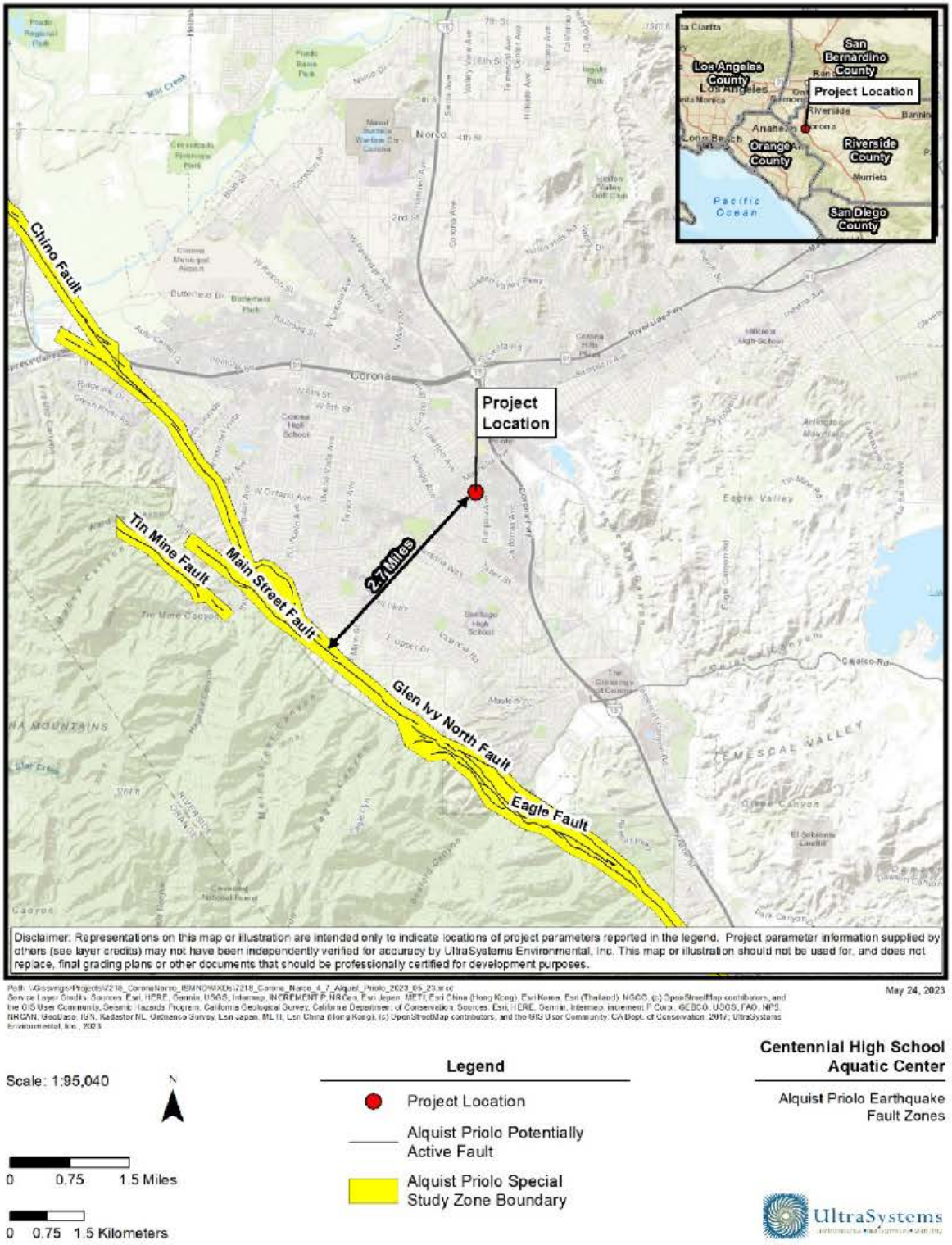
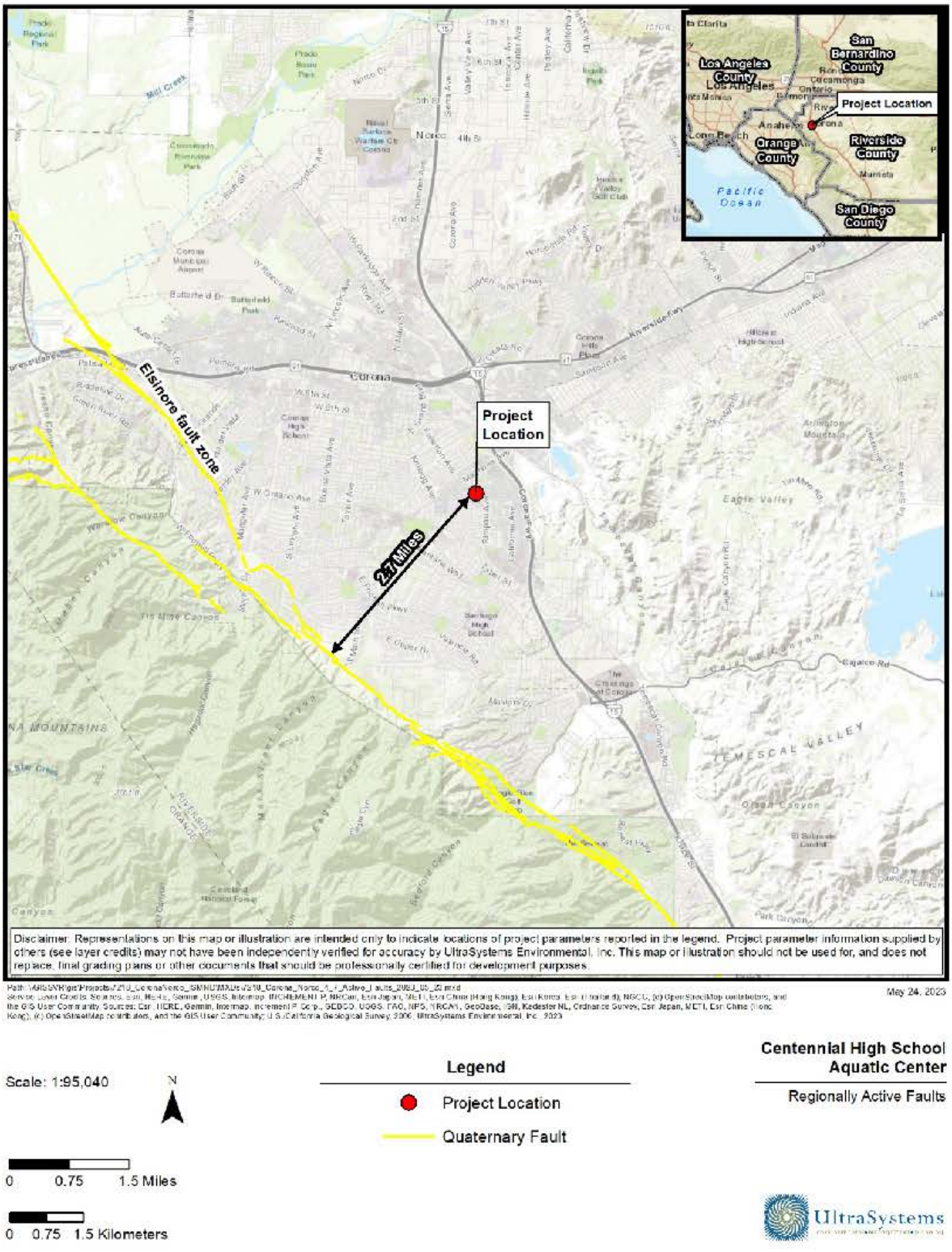


**Figure 4.7-2**
**REGIONALLY ACTIVE FAULTS**



The project would be constructed in accordance with the applicable current (2022) California Building Code (CBC) issued by the California Building Standards Commission and used throughout the state (California Code of Regulations, Title 24). In addition, the CBC is adopted as § 15.04 of the city's Municipal Code (City of Corona Building Code) and provides minimum standards to protect property and for public welfare by regulating the design and construction of excavations, foundations, building frames, retaining walls, and other building elements to mitigate the effects of seismic shaking and adverse soil conditions. The CBC contains provisions for earthquake safety based on factors including occupancy type, the types of soil and rock onsite, and the strength of ground motion with specified probability of occurring at the site.

Although the project site is susceptible to occasional moderate/high ground shaking from active fault zones in the project region, design and construction in accordance with the CBC would address issues related to potential ground shaking at the site. For these reasons, impacts from strong ground shaking would be less than significant and mitigation is not proposed.

**iii) Seismic-related ground failure, including liquefaction?**

**Less than Significant Impact**

General types of ground failures that might occur as a consequence of severe ground shaking typically include landslides, ground subsidence, ground lurching and shallow ground rupture. The probability of occurrence of each type of ground failure depends on the severity of the earthquake, distance from the faults, topography, subsoils and relatively shallow groundwater tables (approximately 50 feet or less below ground surface [bgs]), in addition to other factors.

Liquefaction typically occurs when saturated or partially saturated soils behave like a liquid, as a result of losses in strength and stiffness in response to an applied stress such as that caused by ground shaking.

The project site is in an area that has not been evaluated for liquefaction (see **Figure 4.7-3**). Riverside County has mapped the site to be in an area with a low liquefaction susceptibility (Riverside County Mapping Portal, 2019).

A liquefaction evaluation was performed using geotechnical data obtained from a bore sample and based on adjusted peak ground acceleration data. Groundwater was not encountered in subsurface exploration to depths of up to approximately 51.5 feet bgs during the geotechnical investigation (LCI 2023, p. 8). The evaluation used historical high groundwater levels of about 148 feet bgs based on available groundwater data from nearby water monitoring wells (LCI 2023, p, 12). Based on the LCI analysis, potentially liquefiable layers were not encountered at the project site. Due to the relatively dense nature of the underlying soils and deep historic groundwater elevations, the potential for liquefaction onsite (including effects of liquefaction, such as lateral spreading) is considered very low (LCI 2023, p, 12).

LCI estimated the potential for seismically induced settlement, taking into consideration the maximum considered earthquake (MCE) peak ground acceleration ($PGA_M$). Design/historic high groundwater levels of 148 feet bgs were used in the analysis. Based on the analysis, a potential for approximately 1.5 inches of seismic settlement is estimated at the site; however, based on over excavation recommendations presented in the geotechnical report, the maximum estimated potential seismic settlement is reduced to approximately 1.0 inch. Results of the seismic settlement

analysis is presented in Appendix D of the LCI Geotechnical Investigation Report (LCI, 2023; see **Appendix E1**).

Compliance with federal, state, and local regulations, including the 2022 CBC and the City's Municipal Code, would minimize hazards from potential seismic-related ground failure, including liquefaction, that could be exacerbated by project development. Impacts would be less than significant, and mitigation is not proposed.

**iv) Landslides?**

**No Impact**

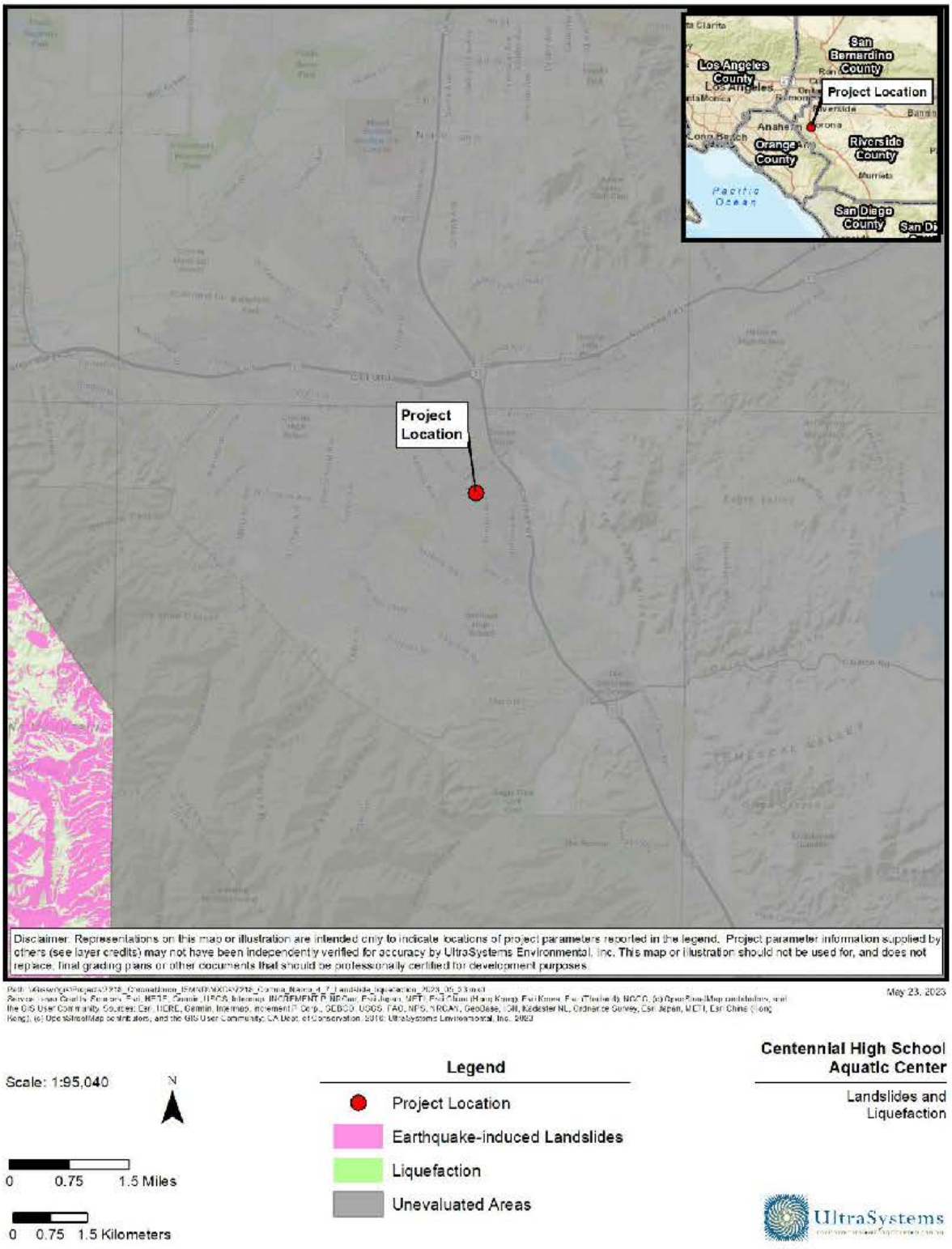
Seismically induced landslides and other slope failures are common occurrences during or soon after earthquakes. Topography within the project site is relatively flat. The existing surface elevation at the proposed project site ranges from approximately 781 feet to 808 feet above mean sea level. The project site and surroundings have a northeast slope of about 3.5 percent grade. The project site and immediate surroundings are built out as part of the Centennial High School campus. Therefore, slope stability evaluation is not warranted for this project (LCI, 2023; pg. 14). The potential for seismically induced landslide hazard is very low and mitigation is not proposed. Impacts would be less than significant.

**b) Would the project result in substantial soil erosion or the loss of topsoil?**

**Less than Significant Impact**

The geotechnical investigation onsite encountered artificial fill materials underlain by native Quaternary Young Alluvial Fan Deposits on the project site. Artificial fill was encountered within borings underlying existing pavement sections at the site, and typically ranged from 2.5 to 5 feet below existing ground surface.

**Figure 4.7-3**
**LANDSLIDES AND LIQUEFACTION**



Young Alluvial Fan Deposits encountered underlying undocumented artificial fill generally consisted of stiff to hard sandy silts, clays, and medium dense to very dense gravels, sands, and clayey sands. These soils were visually described as slightly moist to moist to the maximum depths explored. (LCI 2023, p. 6).

One soil unit, *Garretson gravelly very fine sandy loam, 2 to 8 percent slopes* (GdC) was mapped on the project site by the Web Soil Survey (Soil Survey Staff, 2023). This soil type is assessed as moderately susceptible to erosion by water, and to erosion by wind, by the Natural Resources Conservation Service (NRCS, 2023).

**Construction**

The project site would be most susceptible to erosion during the construction phase, when soil is exposed. To minimize the potential for water and wind erosion, the project would adopt construction best management practices (BMPs) in accordance with the City of Corona Municipal Code Chapter 15.36.060, which states that all work requiring a grading permit shall be required to have an approved Erosion Control Plan. The project would also be required to implement site-specific construction stormwater BMPs designed to avoid or minimize wind- and water erosion, as described in the required Storm Water Pollution Prevention Plan (SWPPP; refer to **Section 4.10** of this document).

**Operation**

As designed, the project would be developed with impervious surfaces which would limit the soil erosion to a negligible level during project operations. With the implementation of soil erosion and sedimentation BMPs during the construction phase and the proposed combination of impervious surfaces during the operational phase, the project would have less than significant impacts related to soil erosion or loss of topsoil and mitigation is not proposed.

**3) Would the project be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?**

**Less than Significant Impact with Mitigation Incorporated**

The proposed project site consists of two geologic units described above in Section 4.7.b. Impacts related to liquefaction and landslides would be less than significant after regulatory compliance, as substantiated above in **Section 4.7 a)**.

**Lateral Spreading**

Lateral spreading is the downslope movement of surface sediment due to liquefaction in a subsurface layer due to gravity and earthquake shaking combined. The potential for lateral spreading to occur onsite is considered very low due to the very low potential for liquefaction in subsurface site soils. Impacts would be less than significant.

**Collapsible Soils**

Soil compressibility refers to a soil's potential for settlement when subjected to increased loads, as from a new structure or fill surcharge. The project geotechnical investigation determined that the near-surface alluvial soils in the proposed structure locations are considered slightly compressible,

becoming less compressible with depth. Partial removal and re-compaction of this material will further reduce the potential for adverse total and differential settlement of the proposed improvements. Collapse potential (moisture sensitivity, sometimes referred to as 'hydrocollapse') refers to the potential settlement of a soil upon being wetted under existing stresses. Based on the relatively dense nature of the near surface soil, soils are expected to have a low collapse potential (LCI, 2023; pg. 6-7) The Geotechnical Evaluation Report (see **Appendix E1)** recommends removal of existing soil to depth of five feet below existing ground surface; and replaced with engineered, moistened, and compacted fill soils (LCI, 2023, p. 18). Project site grading and project design and construction would comply with recommendations of the report as detailed in mitigation measure **GEO-1** below, and project development would not exacerbate hazards arising from collapsible soils.

**Subsidence**

Soil subsidence (shrinkage) during grading due to heavy equipment processing is estimated at about 0.1 foot (LCI, 2023, p. 19). Subsidence would be compensated for during grading by placement of fill soils onsite. Project development would not exacerbate hazards related to ground subsidence. Impacts would be less than significant after implementation of mitigation measure **GEO-1,** to comply with the recommendations of the Geotechnical Investigation Report. Mitigation measure **GEO-1** is recommended to reduce potential impacts from settlement, subsidence, or collapse.

**Mitigation Measure**

**MM GEO-1** To minimize potential impacts resulting from unstable soils, prior to the issuance of a certificate of occupancy, the project applicant shall implement applicable recommendations provided in Section 3.0 *Conclusions and Recommendations* of the Geotechnical Evaluation Report prepared by LCI, dated September 2, 2022 and revised February 15, 2023 for the proposed project (LCI, 2023).

**Level of Significance After Mitigation**

Impacts resulting from unstable soils would be less than significant after implementation of mitigation measure **GEO-1**.

**4) Would the project be located on expansive soil, as defined in Table 18-1 B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property?**

**Less than Significant Impact with Mitigation Incorporated**

Expansive soils shrink and swell with changes in soil moisture. Soil moisture may change from landscape irrigation, rainfall, and utility leakage. Based on laboratory test results of near surface soils, onsite soils are expected to have a very low expansion potential. Recommendations in Section 3.0 of the Geotechnical Investigation Report in **Appendix E1** of this document (see **MM GEO-1**) are based on the onsite soil conditions and soils with a very low expansion potential.

**5) Would the project have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?**

**No Impact**

The project site would connect to the City's existing sewer system; the project would not use septic tanks or alternative wastewater disposal systems. For this reason, no impacts associated with septic tanks or alternative waste water disposal systems would occur, and mitigation is not required.

**6) Would the project directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?**

**Less than Significant Impact with Mitigation Incorporated**

The project site boundary is encompassed entirely by a single geological deposit, young alluvial fan deposits consisting of gravel (Qyf1g) (Morton and Miller, 2006). This deposit consists of sand and silt of valleys and floodplains and dates to the Holocene Epoch (11,650 years before present [ybp] to the present).

A paleontology records search by the Western Science Center (WSC) yielded no records of fossil localities in the project area or within a one-mile radius. The Center reports that the geologic units underlying this project are mapped as a mix of alluvial gravel from the Holocene and late Pleistocene epochs (Stoneburg, 2023). Holocene alluvial units are considered to be of high preservation value, but material found is unlikely to be fossil material due to the relatively young age of the deposits. Pleistocene alluvial units are considered to be of high preservation value and are likely to contain fossils.

Fossils could be present in site soils. Project site preparation, grading, and construction could damage fossils. This impact would be significant. In the event of an unexpected discovery, implementation of mitigation measure **GEO-2** would ensure paleontological resources or unique geologic features are not significantly affected.

**Mitigation Measure**

**MM GEO-2** Prior to the issuance of building/grading permit, the project applicant shall retain a qualified paleontologist, to remain on-call during project ground-disturbing activities. If paleontological resources are uncovered during project construction, the contractor shall halt construction activities within 50 feet of the find and notify the District. The on-call paleontologist shall be notified and afforded the necessary time and funds to recover, analyze, and curate the find(s). The paleontologist shall curate the find(s) at an accredited repository for paleontological resources such as Western Science Center. Subsequently, the monitor shall remain onsite for the duration of the ground disturbance to ensure the protection of any other resources that are found during construction on the project site.

**Level of Significance After Mitigation**

With implementation of **MM GEO-2**, potential impacts to paleontological resources would be reduced to a less than significant level.

## 4.8 Greenhouse Gas Emissions

| Would the project: | Potentially Significant Impact | Less than Significant Impact with Mitigation Incorporated | Less than Significant Impact | No Impact |
|---|---|---|---|---|
| a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment? | | | **X** | |
| b) Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases? | | | **X** | |

### 4.8.1 Background Information on Greenhouse Gas Emissions

Life on earth depends on energy coming from the sun. About half the light reaching Earth's atmosphere passes through the air and clouds to the surface, where it is absorbed and then radiated upward in the form of infrared heat. About 90 percent of this heat is then absorbed by carbon dioxide ($CO_2$) and other greenhouse gases (GHG) and radiated back toward the surface, which is warmed to a life-supporting average of 59 degrees Fahrenheit (°F) (NASA, 2023).

Human activities are changing the natural greenhouse. Over the last century, the burning of fossil fuels such as coal and oil has increased the concentration of atmospheric $CO_2$. This happens because the coal or oil burning process combines carbon in the fuel with oxygen in the air to make $CO_2$. To a lesser extent, the clearing of land for agriculture, industry, and other human activities has increased concentrations of GHGs (NASA, 2023).

GHGs are defined under the California Global Warming Solutions Act of 2006 (AB 32) as $CO_2$, methane ($CH_4$), nitrous oxide ($N_2O$), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs) and sulfur hexafluoride ($SF_6$). Associated with each GHG species is a "global warming potential" (GWP), which is a value used to compare the abilities of different GHGs to trap heat in the atmosphere. GWPs are based on the heat-absorbing ability of each gas relative to that of $CO_2$, as well as the decay rate of each gas (the amount removed from the atmosphere over a given number of years). The GWPs of $CH_4$ and $N_2O$ are 25 and 298, respectively (GMI, 2023). "Carbon dioxide equivalent" ($CO_2e$) emissions are calculated by weighting each GHG compound's emissions by its GWP and then summing the products. HFCs, PFCs, and $SF_6$ will not be emitted in significant amounts by Centennial High School Aquatic Center.

**Carbon Dioxide ($CO_2$)** is a colorless, odorless gas consisting of molecules made up of two oxygen atoms and one carbon atom. $CO_2$ is produced when an organic carbon compound (such as wood) or fossilized organic matter (such as coal, oil, or natural gas) is burned in the presence of oxygen. Since the industrial revolution began in the mid-1700s, industrial activities have increased in scale and distribution. Prior to the industrial revolution, $CO_2$ concentrations were stable at a range of 275 to 285 parts per million (ppm) (IPCC, 2007). The National Oceanic and Atmospheric Administration (NOAA's) Earth System Research Laboratory (ESRL) indicates that global concentration of $CO_2$ was

409.09 ppm in October 2019. (ESRL, 2023). These concentrations of $CO_2$ exceed by far the natural range over the last 650,000 years (180 to 300 ppm) as determined from ice cores.

**Methane ($CH_4$)** is a colorless, odorless non-toxic gas consisting of molecules made up of four hydrogen atoms and one carbon atom. $CH_4$ is combustible, and is the main constituent of natural gas, a fossil fuel. $CH_4$ is released when organic matter decomposes in low-oxygen environments. Natural sources include wetlands, swamps and marshes, termites, and oceans. Anthropogenic sources include the mining of fossil fuels and transportation of natural gas, digestive processes in ruminant animals such as cattle, rice paddies, and the buried waste in landfills. Over the last 50 years, human activities such as growing rice, raising cattle, using natural gas, and mining coal have added to the atmospheric concentration of $CH_4$. Other anthropogenic sources include fossil-fuel combustion and biomass burning.

**Nitrous Oxide ($N_2O$)** is a colorless, non-flammable gas with a sweetish odor, commonly known as "laughing gas," and sometimes used as an anesthetic. $N_2O$ is naturally produced in the oceans and in rainforests. Manmade sources of $N_2O$ include the use of fertilizers in agriculture, nylon and nitric acid production, cars with catalytic converters and the burning of organic matter. Concentrations of $N_2O$ also began to rise at the beginning of the industrial revolution.

**Chlorofluorocarbons (CFCs)** are gases formed synthetically by replacing all hydrogen atoms in $CH_4$ or ethane with chlorine and/or fluorine atoms. CFCs are nontoxic, nonflammable, insoluble, and chemically un-reactive in the troposphere (the level of air at the Earth's surface). CFCs have no natural source but were first synthesized in 1928. They were used for refrigerants, aerosol propellants, and cleaning solvents. Because of the discovery that they can destroy stratospheric ozone, an ongoing global effort to halt their production was undertaken and has been extremely successful, so much so that levels of the major CFCs are now remaining steady or declining. However, their long atmospheric lifetimes mean that some of the CFCs will remain in the atmosphere for over 100 years. The project is not expected to emit any CFCs.

**Hydrofluorocarbons (HFCs)** are synthesized chemicals that are used as a substitute for CFCs. Out of all the GHGs, HFCs are one of three groups with the highest GWP. HFCs are synthesized for applications such as automobile air conditioners and refrigerants. The project is not expected to emit any HFCs.

**Perfluorocarbons (PFCs)** have stable molecular structures and do not break down through the chemical processes in the lower atmosphere. High-energy ultraviolet rays about 60 kilometers above Earth's surface can destroy the compounds. Because of this, PFCs have very long lifetimes, between 10,000 and 50,000 years. The two main sources of PFCs are primary aluminum production and semiconductor manufacture. The project is not expected to emit any PFCs.

**Sulfur Hexafluoride ($SF_6$)** is an extremely potent greenhouse gas. $SF_6$ is very persistent, with an atmospheric lifetime of more than a thousand years. Thus, a relatively small amount of $SF_6$ can have a significant long-term impact on global climate change. $SF_6$ is human-made, and the primary user of $SF_6$ is the electric power industry. Because of its inertness and dielectric properties, it is the industry's preferred gas for electrical insulation, current interruption, and arc quenching (to prevent fires) in the transmission and distribution of electricity. $SF_6$ is used extensively in high voltage circuit breakers and switchgear, and in the magnesium metal casting industry. The project is not expected to emit $SF_6$.

### 4.8.2 Regulatory Setting

GHGs are regulated at the national, state, and air basin level; each agency has a different degree of control. The United States Environmental Protection Agency (USEPA) regulates at the national level; the California Air Resources Board (ARB) regulates at the state level; and the South Coast Air Quality Management District (SCAQMD) regulates at the air basin level in the Centennial High School Aquatic Center Project area.

#### 4.8.2.1 Federal Regulations

The USEPA collects several types of GHG emissions data. These data help policy makers, businesses, and the USEPA track GHG emissions trends and identify opportunities for reducing emissions and increasing efficiency. The USEPA has been maintaining a national inventory of GHG emissions since 1990 and in 2009 established mandatory reporting of GHG emissions from large GHG emissions sources.

EPA is also getting GHG reductions through partnerships and initiatives, evaluating policy options, costs, and benefits, advancing the science, partnering internationally and with states, localities, and tribe, and helping communities adapt

**Corporate Average Fuel Economy (CAFE) Standards**

In May 2010, the USEPA finalized the first-ever national GHG emissions standards under the Clean Air Act, and the National Highway Traffic Safety Administration (NHTSA) finalized Corporate Average Fuel Economy (CAFE) standards under the Energy Policy and Conservation Act (USEPA, 2022d). The 2010 CAFE standards were for model year 2012 through 2016 light-duty vehicles. In April 2020, NHTSA and USEPA amended the CAFE and GHG emissions standards for passenger cars and light trucks and established new less stringent standards, covering model years 2021 through 2026 (USEPA, 2022d). However, in December 2021, EPA finalized revised national greenhouse gas (GHG) emissions standards for passenger cars and light trucks for Model Years 2023- 2026. The final standards would achieve significant GHG emissions reductions along with reductions in other criteria pollutants and would result in substantial public health and welfare benefits, while providing consumers with savings from lower fuel costs (USEPA, 2021).

**Safer Affordable Fuel-Efficient (SAFE) Vehicles Rule**

On September 27, 2019, the USEPA and the NHTSA published the Safer Affordable Fuel-Efficient (SAFE) Vehicles Rule Part One: One National Program (NHTSA, 2020), revoked California's authority to set its own GHG emissions standards and set zero emission vehicle (ZEV) mandates in California. The loss of the ZEV sales requirements would likely result in additional gasoline-fueled vehicles being sold in the State and criteria emissions increasing. On April 30, 2020, USEPA and NHTSA issued the Final SAFE Rule, (USEPA, 2023) which relaxed the federal GHG emissions and CAFE standards resulting in the probable increase of $CO_2$ emissions. However, this regulation was repealed on December 21, 2021 by the Biden administration (NHTSA, 2021).

### 4.8.2.2 State Regulations

**Executive Order (EO) S 3-05**

On June 1, 2005, the governor issued EO S 3-05, which set the following GHG emission reduction targets:

- By 2010, reduce GHG emissions to 2000 levels;
- By 2020, reduce GHG emissions to 1990 levels;
- By 2050, reduce GHG emissions to 80 percent below 1990 levels.

To meet these targets, the Climate Action Team (CAT)[9] prepared a report to the Governor in 2006 that contained recommendations and strategies to help ensure that the targets in EO S-3-05 are met.

**Assembly Bill 32 (AB 32)**

In 2006, the California State Legislature enacted the California Global Warming Solutions Act of 2006, also known as AB 32. AB 32 focuses on reducing GHG emissions in California. GHGs, as defined under AB 32, include $CO_2$, $CH_4$, $N_2O$, HFCs, PFCs, and $SF_6$. AB 32 required that GHGs emitted in California be reduced to 1990 levels by the year 2020. The ARB is the state agency charged with monitoring and regulating sources of emissions of GHGs that cause global warming. AB 32 also required that by January 1, 2008, the ARB determine what the statewide GHG emissions level was in 1990, and it must approve a statewide GHG emissions limit, so it may be applied to the 2020 benchmark. The ARB approved a 1990 GHG emissions level of 427 million metric tons of $CO_2e$ ($MMTCO_2e$), on December 6, 2007, in its Staff Report. Therefore, in 2020, emissions in California were required to be at or below 427 $MMTCO_2e$.

Under the "business as usual or (BAU)" scenario established in 2008, statewide emissions were increasing at a rate of approximately one percent per year as noted below. It was estimated that the 2020 estimated BAU of 596 $MMTCO_2e$ would have required a 28 percent reduction to reach the 1990 level of 427 $MMTCO_2e$.

**Climate Change Scoping Plan**

The first AB 32 Scoping Plan (ARB, 2008) contained the main strategies to achieve the 2020 emissions cap. The plan was developed by the ARB with input from the Climate Action Team and proposed a comprehensive set of actions designed to reduce overall carbon emissions in California, improve the environment, reduce oil dependency, diversify energy sources, and enhance public health while creating new jobs and improving the state's economy. The GHG reduction strategies contained in the AB 32 Scoping Plan included direct regulations, alternative compliance mechanisms, monetary and non-monetary incentives, voluntary actions, and market-based mechanisms such as a cap-and-trade system.

In May 2014, the ARB adopted the First Update to the AB 32 Scoping Plan (ARB, 2014). This update identified the next steps for California's leadership on climate change. It described progress made to

[9] The Climate Action Team (CAT) members are state agency secretaries and the heads of agencies, boards, and departments, led by the Secretary of the California Environmental Protection Agency (Cal/EPA). They coordinate statewide efforts to implement global warming emission reduction programs and the state's Climate Adaptation Strategy.

meet the near-term objectives of AB 32 and defined California's climate change priorities and activities for the next several years. It also framed activities and issues facing the state as it develops an integrated framework for achieving both air quality and climate goals in California beyond 2020.

In the original AB 32 Scoping Plan, the ARB approved a total statewide GHG 1990 emissions level and 2020 emissions limit of 427 million metric tons (MT) of $CO_2e$. As part of the update, the ARB revised the 2020 Statewide limit to 431 million MT of $CO_2e$, an approximately one percent increase from the original estimate. The 2020 Business as Usual forecast in the update is 509 million MT of $CO_2e$. The state would need to reduce those emissions by 15.3 percent to meet the 431 million MT of $CO_2e$ 2020 limit.

In November 2017, the ARB published the 2017 AB 32 Scoping Plan (ARB, 2017), which built upon the former AB 32 Scoping Plan and Updates by outlining priorities and recommendations for the state to achieve its 2030 GHG target of a 40 percent reduction in GHGs by 2030, compared to 1990 levels. The major elements of the framework proposed were: enhancement of the Renewables Portfolio Standard (RPS) and the Low Carbon Fuel Standard (LCFS); a Mobile Source Strategy, Sustainable Freight Action Plan, Short Lived Climate Pollutant Reduction Strategy, Sustainable Communities Strategies, and a Post 2020 Cap and Trade Program; a 20 percent reduction in GHG emissions from the refinery sector; and an Integrated Natural and Working Lands Action Plan.

On November 16, 2022, the ARB circulated its Final 2022 Scoping Plan for Achieving Carbon Neutrality (ARB, 2022). It identifies a technologically feasible, cost-effective path to achieve carbon neutrality by 2045 or earlier. Through the lens of carbon neutrality, the plan expands the scope to more meaningfully consider how our natural and working lands (NWL) contribute to our long-term climate goal.

**Renewables Portfolio Standard (Scoping Action E-3)**

The California Energy Commission estimates that in 2000 about 12 percent of California's retail electric load was met with renewable resources. Renewable energy includes (but is not limited to) wind, solar, geothermal, small hydroelectric, biomass, anaerobic digestion, and landfill gas. California's current RPS is intended to increase that share to 33 percent by 2020. Increased use of renewables will decrease California's reliance on fossil fuels, thus reducing emissions of GHGs from the electricity sector. Most recently, Governor Brown signed into legislation Senate Bill (SB) 350 in October 2015, which requires retail sellers and publicly-owned utilities to procure 50 percent of their electricity from eligible renewable energy resources by 2030**.**

**Senate Bill 375 (SB 375)**

Senate Bill (SB) 375 passed the Senate on August 30, 2008, and was signed by the Governor on September 30, 2008. Per SB 375, the transportation sector is the largest contributor of GHG emissions and contributes approximately 45 percent of the GHG emissions in California, with automobiles and light trucks alone contributing almost 30 percent. SB 375 indicates that GHGs from automobiles and light trucks can be reduced by new vehicle technology. However, significant reductions from changed land use patterns and improved transportation also are necessary. SB 375 states, "Without improved land use and transportation policy, California will not be able to achieve the goals of AB 32." SB 375 does the following: (1) requires metropolitan planning organizations to include sustainable community strategies in their regional transportation plans for reducing GHG emissions; (2) aligns planning for transportation and housing; and (3) creates specified incentives for the implementation of the strategies.

**Executive Order B-30-15**

On April 29, 2015, the Governor issued EO B-30-15 which added an interim target of GHG emissions reductions to help ensure the State meets its 80 percent reduction by 2050, as set in EO S-3-05. The interim target is reducing GHG emissions by 40 percent by 2030. It also directs State agencies to update the Scoping Plan, update Adaptation Strategy every three years, and take climate change into account in their planning and investment strategies. Additionally, it requires the State's Five-Year Infrastructure Plan will take current and future climate change impacts into account in all infrastructure projects**.**

**Title 24**

Although not originally intended to reduce GHGs, California Code of Regulations Title 24 Part 6: California's Building Energy Efficiency Standards for Residential and Nonresidential Buildings, was first adopted in 1978 in response to a legislative mandate to reduce California's energy consumption. The standards are updated periodically to allow consideration and possible incorporation of new energy efficient technologies and methods. The 2016 standards have been published and became effective July 1, 2017. The requirement for when the 2008 standards must be followed is dependent on when the application for the building permit is submitted. Energy efficient buildings require less electricity; therefore, increased energy efficiency reduces fossil fuel consumption and decreases GHG emissions. The 2019 Standards improve upon the 2016 Standards for new construction of, and additions and alterations to, residential and nonresidential buildings. Buildings whose permit applications are dated on or after January 1, 2020, must comply with the 2019 Standards. The 2019 Standards is a major step towards meeting the Zero Net Energy goal by the year 2030 and is the last of three updates to move California towards achieving that goal. The California Energy Commission updates the standards every three years. The 2022 Energy Code, adopted August 11, 2021 by the CEC and approved by the California Building Standards Commission in December 2021, will take effect for all buildings whose permit applications are applied for on or after January 1, 2023

### 4.8.2.3 Local Regulations

The City of Corona has an adopted climate action plan, which was updated in 2019 (City of Corona, 2019b). The Plan includes a GHG emission inventory, emission reduction goals, and emission reduction measures.

The City completed a baseline year 2008 GHG inventory as part of the Corona Climate Action Plan (CAP) that was adopted in 2012. The city emitted approximately 1.7 million metric tons carbon dioxide equivalent (MMT $CO_2e$) in 2008. The 2016 inventory indicated that the city emitted approximately 1.1 MMT $CO_2e$, which is approximately 35 percent lower than 2008 levels of emissions. The largest portion of emissions in the 2016 inventory came from the transportation sector which was 46 percent of the city's total GHG emissions.

GHG reduction targets were identified for 2020, 2030, and 2040. The City has established the following reduction targets that are consistent with current regulation. Consistent with the State's adopted AB 32 GHG reduction target, the City set a goal to reduce emissions to 1990 levels by the year 2020. This target was calculated as a 15-percent decrease from 2008 levels, as recommended in the AB 32 Scoping Plan. An interim goal for the city was created for 2030, which was to reduce emissions to 49 percent below 2008 levels. A longer-term goal was established for 2040, which was to reduce emissions to 66 percent below 2008 levels. The interim and longer-term goals would put the Corona on a path toward the State's long-term goal to reduce emissions 80 percent below 1990 levels by 2050, as shown in **Table 4.8-1**.

**Table 4.8-1**
**MASS GHG REDUCTION TARGET FOR COMMUNITY EMISSIONS**

| Strategy | Target |
|---|---|
| 2020 Target | 15% below 2008 levels |
| 2020 Emissions Goal (MT $CO_2e$) | 1,483,963 |
| 2030 Target | 49% below 2008 levels |
| 2030 Emissions Goal (MT $CO_2e$) | 890,378 |
| 2040 Target | 66% below 2008 levels |
| 2040 Emissions Goal (MT $CO_2e$) | 593,585 |

Source: City of Corona, 2019 p.4.
MT $CO_2e$ = metric tons of carbon dioxide equivalent.

The City implements additional local reduction measures which encourage energy efficiency, water conservation, alternative transportation, solid waste reduction, and clean energy. **Table 4.8-2** summarizes the reductions resulting from measures that would be implemented to meet the community GHG reduction goals for 2030 and 2040.

**Table 4.8-2**
**FUTURE GHG REDUCTIONS RESULTING FROM LOCAL MEASURES**

| Goals and Measures | 2030 Emission Reductions (MT $CO_2e$)[c] | 2040 Emission Reductions (MT $CO_2e$) |
|---|---|---|
| **Goal 1: Increase Energy Efficiency in Existing Residential Units** | | |
| 1.1: Energy Efficiency Training, Education, and Recognition in the Residential Sector | Supporting Measure[a] | |
| 1.2: Increase Community Participation in Existing Energy Efficiency Programs | 3,715 | 3,885 |
| 1.3: Home Energy Evaluations | Supporting Measure[a] | |
| 1.4: Residential Home Energy Renovations | 2,276 | 2,380 |
| **Goal 2: Increase Energy Efficiency in New Residential Units** | | |
| 2.1: Exceed Energy Efficiency Standards | 3,918 | 4,097 |
| **Goal 3: Increase Energy Efficiency in Existing Commercial Units** | | |
| 3.1: Energy Efficiency Training, Education, and Recognition in Commercial Sector | Supporting Measure[a] | |
| 3.2: Increase Business Participation in Existing Energy Efficiency Programs | 7,031 | 7,557 |
| 3.3: Nonresidential Building Energy Audits | Supporting Measure[a] | |
| **Goal 4: Increase Energy Efficiency in New Commercial Units** | | |
| 4.1: Exceed Energy Efficiency Standards | 5,742 | 6,172 |
| **Goal 5: Increase Energy Efficiency through Water Efficiency** | | |
| 5.1: Water Efficiency through Enhanced Implementation of Senate Bill X7-7 | 1,524 | 1,607 |
| 5.2: Exceed Water Efficiency Standards | Supporting Measure[a] | |
| **Goal 6: Decrease Energy Demand through Reducing Urban Heat Island Effect per Title 24 Requirements** | | |
| 6.1: Tree Planting for Shading and Energy Saving | Supporting Measure[a] | |
| 6.2: Light-Reflecting Surfaces for Energy Saving | 601 | 633 |
| **Goal 7: Decrease Greenhouse Gas Emissions through Reducing Vehicle Miles Traveled** | | |
| 7.1: Alternative Transportation Options | 53,944 | 57,849 |
| 7.2: Implement Bicycle Master Plan to Expand Bike Routes around the City | 482 | 517 |
| **Goal 8: Decrease Greenhouse Gas Emissions through Reducing Solid Waste Generation** | | |

| Goals and Measures | 2030 Emission Reductions ($MT CO_2e$)[c] | 2040 Emission Reductions ($MT CO_2e$) |
|---|---|---|
| 8.1: Reduce Waste to Landfills | 20,271 | 21,378 |
| **Goal 9: Decrease Greenhouse Gas Emissions through Increasing Clean Energy Use** | | |
| 9.1: Clean Energy | 21,999 | 21,999 |
| **Total Community Measures without CCA** | **159,096** | **168,481** |
| **Goal 9: Decrease Greenhouse Gas Emissions through Increasing Clean Energy Use** | | |
| 9.2: Join CCA[b] Program | 214,052 | 230,348 |
| **Total Community Measures with CCA** | **373,148** | **398,829** |

**Source**: City of Corona, 2019b, p. 6.
[a]Supporting measures are measures that will reduce emissions but cannot be quantified. These measures enhance the quantifiable measures through education and outreach programs.
[b]CCA: Community Choice Aggregation (See pages 13 and 40 of the CAP for explanation of CCA).
[c]MT $CO_2e$ = metric tons of carbon dioxide equivalent.

The City has developed adaptation strategies to reduce potential impacts and build resiliency among the communities. The adaptation strategies focus on public health and safety, electricity demand, water availability, infrastructure damage, wildfire, and social equity.

### 4.8.3 Impact Thresholds

The following thresholds of significance are based on criteria in **Appendix G** of the State CEQA Guidelines. A project has the potential to create a significant environmental impact if it would:

- Generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment; or
- Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing emissions of GHG.

### 4.8.4 Impact Analysis

**a) Would the project generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?**

**Less Than Significant Impact**

California has enacted several pieces of legislation that relate to GHG emissions and climate change. Much of this legislation sets aggressive goals for GHG reductions within the state. Per Senate Bill 97, the California Natural Resources Agency adopted amendments to the CEQA Guidelines, which address the specific obligations of public agencies when analyzing GHG emissions under CEQA to determine a project's effects on the environment. However, neither a threshold of significance nor any specific mitigation measures are included or provided in these CEQA Guideline amendments.

**GHG Significance Threshold**

Neither the City of Corona, the SCAQMD nor the State CEQA Guidelines Amendments has adopted quantitative thresholds of significance for addressing a school project's GHG emissions. Nonetheless, § 15064.4 of the CEQA Guidelines serves to assist lead agencies in determining the significance of the

impacts of GHGs. As required in § 15064.4 of the CEQA Guidelines, this analysis includes an impact determination based on the following: (1) an estimate of the amount of greenhouse gas emissions resulting from the Centennial High School Aquatic Center Project; (2) a qualitative analysis or performance based standards; (3) a quantification of the extent to which the project increases greenhouse gas emissions as compared to the existing environmental setting; and (4) the extent to which the Centennial High School Aquatic Center Project complies with regulations or requirements adopted to implement a statewide, regional, or local plan for the reduction or mitigation of greenhouse gas emissions.

SCAQMD's guidance uses a tiered approach rather than a single numerical emissions threshold. If a project's GHG emissions "fail" the non-significance of a given tier, then one goes to the next one.

The threshold selected for this analysis is Tier 3, which establishes a screening significance threshold level to determine significance using a 90 percent emission capture rate. For Tier 3, the SCAQMD estimated that at a threshold of approximately 3,000 metric tons (tonnes) $CO_2e$ per year emissions would capture 90 percent of the GHG emissions from new residential or commercial projects (SCAQMD, 2008).

The present analysis uses 3,000 tonnes of $CO_2e$ per year as the significance threshold under the first impact criterion in **Section 4.8.3**.

**Construction GHG Emissions**

Construction is an episodic, temporary source of GHG emissions. Emissions are generally associated with the operation of construction equipment, import or export of soil, and the disposal of construction waste. To be consistent with the guidance from the SCAQMD for calculating criteria pollutants from construction activities, only GHG emissions from onsite construction activities and offsite hauling and construction worker commuting are considered as project-generated. As explained by the California Air Pollution Control Officers Association (CAPCOA) in its 2008 white paper (CAPCOA, 2008), the information needed to characterize GHG emissions from manufacture, transport, and end-of-life of construction materials would be speculative at the CEQA analysis level; CEQA does not require an evaluation of speculative impacts (*CEQA Guidelines* § 15145). Therefore, the construction analysis does not consider such GHG emissions, but does consider non-speculative onsite construction activities, and offsite hauling and construction worker trips. All GHG emissions are identified on an annual basis.

Estimated criteria pollutant emissions from the Centennial High School Aquatic Center Project's onsite and offsite project construction activities were calculated using the California Emissions Estimator Model (CalEEMod), Version 2022.1.1.14 (CAPCOA, 2023), which was described in **Section 4.3.7**. The results of this analysis are presented in **Table 4.8-3**. The total construction GHG emissions would be **206.7 metric tons**. Consistent with SCAQMD recommendations and to ensure that construction emissions are assessed in a quantitative sense, construction GHG emissions have been amortized over a 30-year period. The amortized value for the project is **6.89 MTCO$_2$e**.

Modeling results are in **Appendix B.** For each construction year, annual GHG emissions would be far below the threshold of 3,000 MT of $CO_2e$ per year and therefore would be less than significant. No mitigation is necessary**.**

**Table 4.8-3**
**PROJECT CONSTRUCTION-RELATED GHG EMISSIONS**

| Year | Annual Emissions (MT) | | | |
|---|---|---|---|---|
| | $CO_2$ | $CH_4$ | $N_2O$ | $CO_2e$ |
| 2023 | 65.2 | <0.005 | <0.005 | 66.7 |
| 2024 | 140 | 0.01 | <0.005 | 140 |
| **Total** | **205.2** | **0.01** | **0** | **206.7** |

**Source:** Calculated by UltraSystems with CalEEMod (Version 2022.1.1.14) (CAPCOA, 2023).

**Operational GHG Emission**

The project will not result in an increase in activity associated with the swimming facility, resulting in negligible changes in operational emissions at the project site. Thus, operational emissions were not calculated for the project.

**b) Would the project conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of GHG?**

**Less than Significant Impact**

The City of Corona Climate Action Plan Update (CAP Update) includes an interim goal of reducing GHG emissions to 49 percent below 2008 levels by the year 2030, and a longer-term GHG reduction goal of 66 percent below 2008 levels by 2040. It has identified measures that it can take to reduce GHG emissions from City operations and from development in its jurisdiction. While none of these measures is directly relevant to the project, the project does not conflict with any of them.

Another approach to identifying potential conflict with GHG reduction plans, policies, or regulations is to examine General Plan provisions that prescribe or enable GHG emissions control. The City of Corona: 2020-2040 General Plan (City of Corona, 2020a p. ER-44 - ER-47) lists policies that reduce GHG emissions and help to quantify emissions reductions. However, the policies prescribe actions to be taken by the City, and not measures to be implemented by a project proponent. Nevertheless, the proposed project would not conflict with any of the GHG emission reduction policies. The proposed project would have less than significant impacts in relation to consistency with local land use plans, policies, or regulations. Therefore, the project would not hinder the GHG emission reductions of the General Plan Update.

Finally, as noted in **Section 3.4**, energy efficient design, water conservation measures, and aid in the reduction of greenhouse gas emissions would be incorporated into building design to comply with the provisions of the California Green Building Code, Title 24 of the California Code of Regulations. Title 24 requires new structures to incorporate a variety of mandatory features to promote green buildings as means to improve energy efficiency, reduce water demand, promote recycling, and other measures. These will help reduce GHG emissions.

## 4.9 Hazards and Hazardous Materials

| Would the project: | Potentially Significant Impact | Less than Significant Impact with Mitigation Incorporated | Less than Significant Impact | No Impact |
|---|---|---|---|---|
| a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials? | | | **X** | |
| b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment? | | | **X** | |
| c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one quarter mile of an existing or proposed school? | | | **X** | |
| d) Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment? | | | **X** | |
| e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard or excessive noise for people residing or working in the project area? | | | | **X** |
| f) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan? | | | **X** | |
| g) Expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires? | | | | **X** |

The analysis for this section refers to the Phase I Environmental Site Assessment (referred as Phase I or Phase I ESA) by EEC Environmental dated September 2, 2022 (EEC Environmental, 2022) (Refer to **Appendix F1**) and the Preliminary Endangerment Assessment (PEA) Report by EEC Environmental dated July 13, 2023 (EEC Environmental, 2023) (Refer to **Appendix F3**). A Phase I report presents information conducted from a site reconnaissance of the project area, historical developments of the project site, and a comprehensive database search to determine if the project site contains potentially Recognized Environmental Conditions (RECs). The Phase I determined that

arsenic and organochlorine pesticides may remain in site soils from past agricultural use and constitute an REC. A PEA was carried out to access shallow soil at the project site for the potential environmental concerns.

**a) Would the project create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?**

And

**b) Would the project create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?**

**Less than Significant Impact**

**Construction**

Phase I ESA (EEC Environmental, 2022) concluded that the project site does not contain any RECs (EEC Environmental, 2022, p. 2). A Preliminary Endangerment Assessment (PEA) was conducted and results of the assessment, as well as the Department of Toxic Substances Control (DTSC) approval of the report, can be found in **Appendix F3**. The PEA investigated whether arsenic and organochlorine pesticides are present in site soils in concentrations that could pose hazards to persons onsite. The Phase I ESA noted two previous soil investigations conducted at the school, and that the Department of Toxic Substances Control issued No Further Action letters in 2001 and 2009, respectively, regarding those investigations. The Phase I ESA also noted a hydraulic lift and clarifier approximately 530 feet south of the project site, and mentioned that such equipment can degrade over time. The PEA conducted four shallow soil borings and determined that the soil did not exceed any screening thresholds and has no special or handling or disposal restrictions.

Project construction would involve transport, storage, and use of chemical agents, solvents, paints, and other hazardous materials commonly associated with construction activities. Chemical transport, storage, and use would comply with Resource Conservation and Recovery Act (RCRA); Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA); Occupational Safety and Health Administration (OSHA); California hazardous waste control law (California Health and Safety Code, Division 20, Chapter 6.5, Hazardous Waste Control); California Division of Safety and Health (DOSH); SCAQMD; and Riverside County Department of Environmental Health (RCDEH) requirements. The construction contractor would maintain equipment and supplies onsite for containing and cleaning up small spills of hazardous materials, and in the event of a release of hazardous materials of quantity and/or toxicity that onsite workers could not safely contain and clean up, would notify the RCDEH immediately.[10] Compliance with applicable laws and regulations during project construction would reduce the potential for accidental releases of hazardous materials, and construction hazards impacts would be less than significant.

[10] The Riverside County Department of Environmental Health (RCDEH) is the Certified Unified Program Agency (CUPA) for most of Riverside County including the City of Corona; the Certified Unified Program coordinates and makes consistent enforcement of several state and federal regulations governing hazardous materials. The RCDEH is also one of the agencies providing emergency responses to hazardous materials incidents in Riverside County.

**Operation**

The project would require the transport, storage, use, and disposal of certain chemicals typically used for cleaning and landscaping purposes, such as commercial cleansers, paints, and lubricants for maintenance and upkeep of the proposed buildings and landscaping, as well as chemicals associated with the swimming pool. These materials would be stored, handled, and disposed of in accordance with applicable regulations. The proposed project would not involve the routine transport, use, or disposal of quantities of hazardous materials that may create a significant hazard to the public or environment. Therefore, hazardous materials impacts from project operation would be less than significant.

**c) Would the project emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?**

**Less than Significant Impact**

The project site is on the campus of Centennial High School, and John Stallings Elementary School is within 0.25 mile of the project site. The analysis of the use, storage, transport, and disposal of hazardous materials above under thresholds a) and b) applies to hazardous materials impacts on people at both the specified schools. Impacts would be less than significant.

**d) Would the project be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?**

**Less than Significant Impact**

Government Code § 65962.5 requires the DTSC to compile and update, at least annually, lists of the following:

- Hazardous waste and substances sites from the DTSC EnviroStor database.
- Leaking Underground Storage Tank (LUST) sites by county and fiscal year in the State Water Resources Control Board (SWRCB) GeoTracker database.
- Solid waste disposal sites identified by SWRCB with waste constituents above hazardous waste levels outside waste management units.
- SWRCB Cease and Desist Orders (CDOs), and Cleanup and Abatement Orders (CAOs).
- Hazardous waste facilities subject to corrective action pursuant to § 25187.5 of the Health and Safety Code, identified by DTSC.

These lists are collectively referred to as the "Cortese List." The project site is listed as an active site under the DTSC to access the possible impacts from historical agricultural use of the site (see the discussion of the PEA above in Section 4.9.3.a). An amendment request has been submitted to DTSC

to reduce the acreage of the site from the entire school to just the pool site (Envirostor, 2023). As detailed in the threshold 4.9a) and 4.9b), there could be the possibility of RECs in other parts of the school campus. However, soils testing at the project site found no contaminants (EEC Environmental, 2022, p. 1-2). Therefore, the active site listing would not create significant hazardous impacts regarding the proposed project. Impacts would be less than significant.

**e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard or excessive noise for people residing or working in the project area?**

**No Impact**

The nearest public-use airport to the project site is Corona Municipal Airport, approximately four miles to the northwest (Google Earth Pro, 2023) (**Figure 4.9-1**). The project site is outside of the airport's compatibility zones, airspace plan, and noise contours (RCALUC, 2004). Therefore, project development would not cause airport-related hazards, or excessive noise, to persons at the project site. No impact would occur and no mitigation is required.

**f) Would the project impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?**

**Less than Significant Impact**

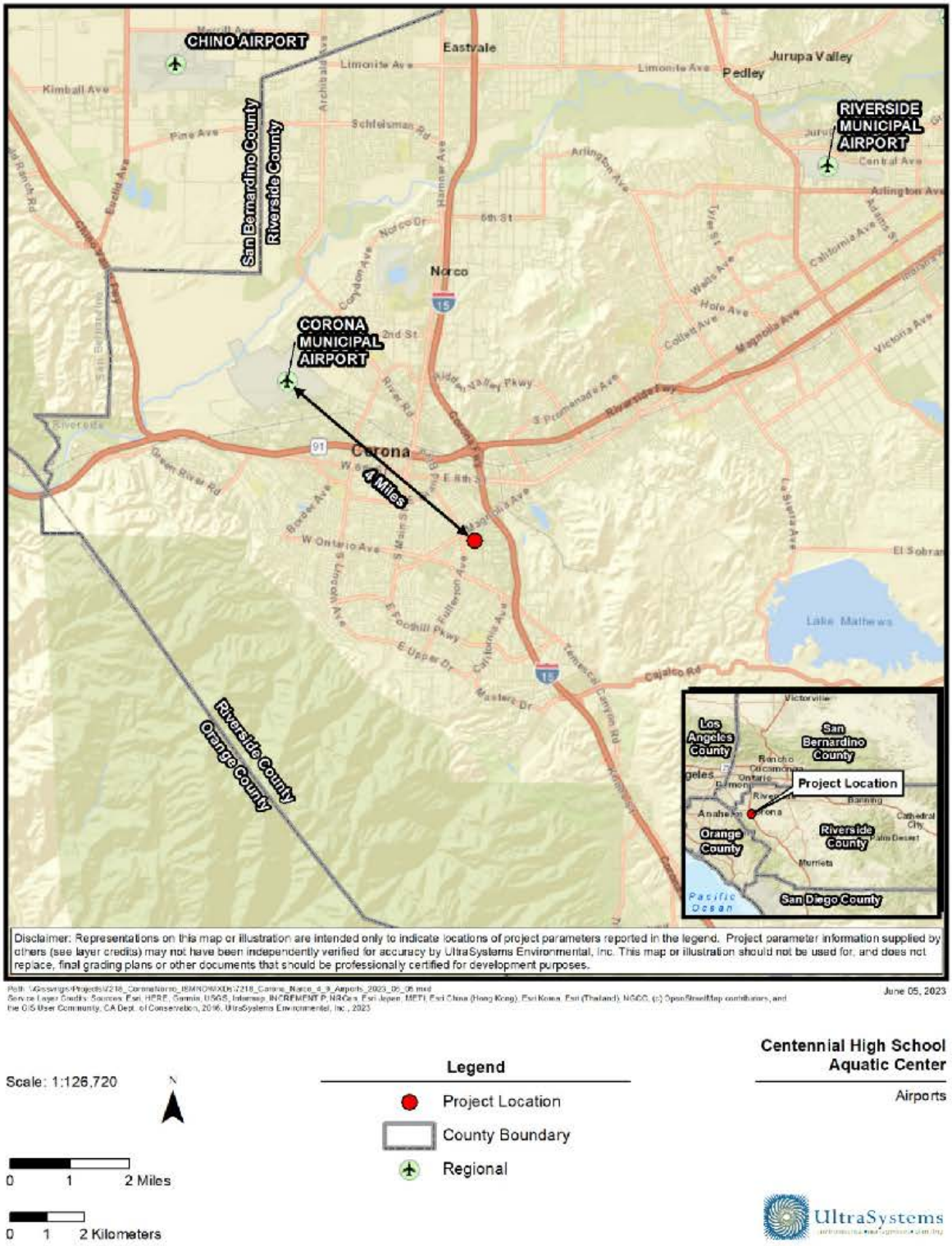
**Construction**

The City of Corona Local Hazard Mitigation Plan (LHMP) was adopted by the City Council in 2023 (City of Corona, 2023c). As further detailed in **Section 4.17**, *Transportation,* project construction could temporarily impact circulation around the northern campus parking lot. However, compliance with city requirements for traffic management during construction in the public right-of-way would ensure that the project would have a less than significant impact.

**Operation**

Project operation would not block traffic within the school campus or surrounding local roadways. The project would provide emergency access to the proposed buildings compliant with California Fire Code § 503. Therefore, impacts would be less than significant.

**Figure 4.9-1**
**AIRPORTS IN THE PROJECT REGION**



**g) Would the project expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires?**

**No Impact**

The California Department of Forestry and Fire Protection (CAL FIRE) developed Fire Hazard Severity Zones (FHSZ) for State Responsibility Areas (SRA) and Local Responsibility Areas (LRA).

Very High Fire Hazard Severity Zone (VHFHSZ) designation refers to either:

**7)** wildland areas supporting high-to-extreme fire behavior resulting from fuels typified by well-developed surface fuel profiles (e.g., mature chaparral) or forested systems where crown fire is likely. Additional site elements include steep and mixed topography and climate/fire weather patterns that include seasonal extreme weather conditions of strong winds and dry fuel moistures. Burn frequency is typically high, and should be evidenced by numerous historical large fires in the area. Firebrands from both short- (<200 yards) and long-range sources are often abundant.

OR

**8)** developed/urban areas typically with high vegetation density (>70% cover) and associated high fuel continuity, allowing for frontal flame spread over much of the area to progress. Often where tree cover is abundant, these areas look very similar to adjacent wildland areas. Developed areas may have less vegetation cover and still be in this class when in the immediate vicinity (0.25 mile) of wildland areas zoned as Very High (see above).

The project site is not in or near a fire hazard severity zone (FHSZ) mapped by CAL FIRE within a Local Responsibility Area (LRA, that is, where cities and counties are responsible for the costs of wildfire prevention and suppression), or within a State Responsibility Area (SRA) (see **Figures 4.9-2** and **4.9-3**, respectively). The project site is surrounded by urban development. Project development would not expose people or structures to substantial hazards from wildfire, and impacts would be less than significant.

**Figure 4.9-2**
**FIRE HAZARD SEVERITY ZONES – LOCAL RESPONSIBILITY AREA**

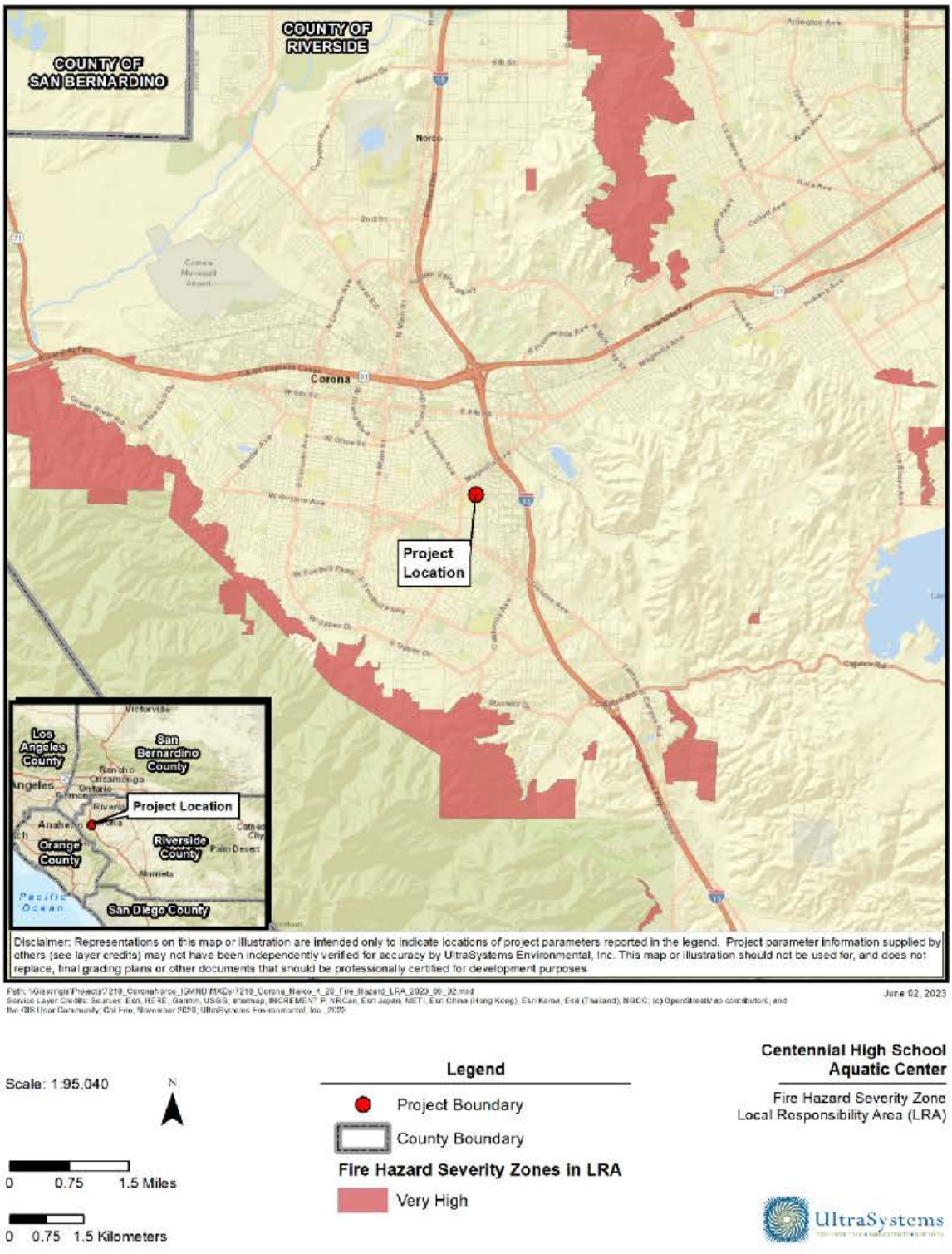
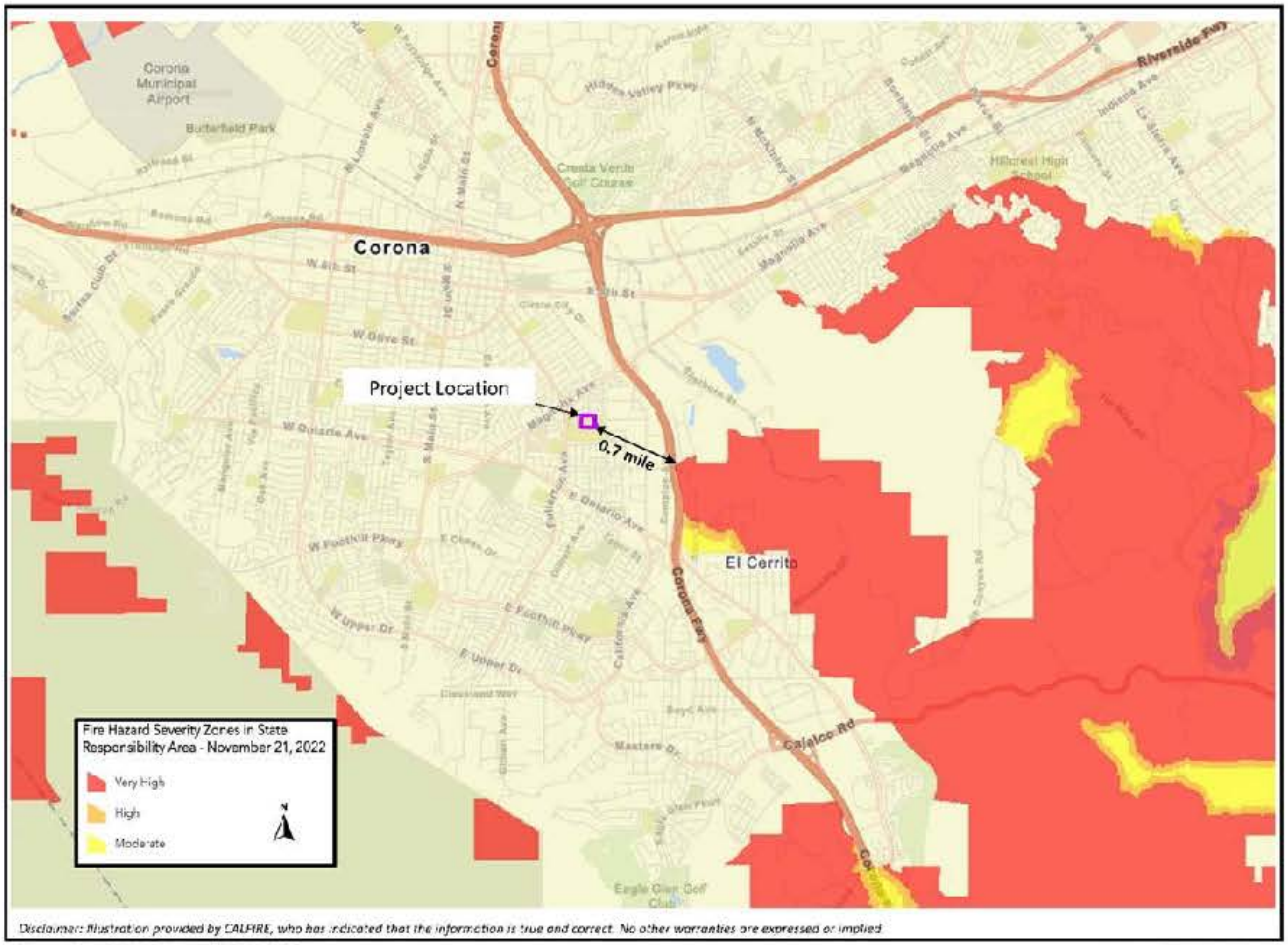


**Figure 4.9-3**
**FIRE HAZARD SEVERITY ZONES – STATE RESPONSIBILITY AREA**




Source: CALFIRE FRAP, November 21, 2022.

UltraSystems

Centennial High School Aquatic Center
Fire Hazard Severity Zone
State Responsibility Area (SRA)

## 4.10 Hydrology and Water Quality

| Would the project: | Potentially Significant Impact | Less than Significant Impact with Mitigation Incorporated | Less than Significant Impact | No Impact |
|---|---|---|---|---|
| a) Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality? | | | X | |
| b) Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin? | | | X | |
| c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would: | | | | |
| i) result in substantial erosion or siltation on or offsite; | | | X | |
| ii) substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or offsite; | | | X | |
| iii) create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff; or | | | X | |
| iv) impede or redirect flood flows? | | | | X |
| d) In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation? | | | | X |
| e) Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan? | | | | X |

### a) Would the project violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality?

**Less than Significant Impact**

The California State Water Resources Control Board requires its nine Regional Water Quality Control Boards (RWQCBs) to develop water quality control plans (Basin Plans) designed to preserve and enhance water quality and protect the beneficial uses of all Regional waters. Specifically, Basin Plans

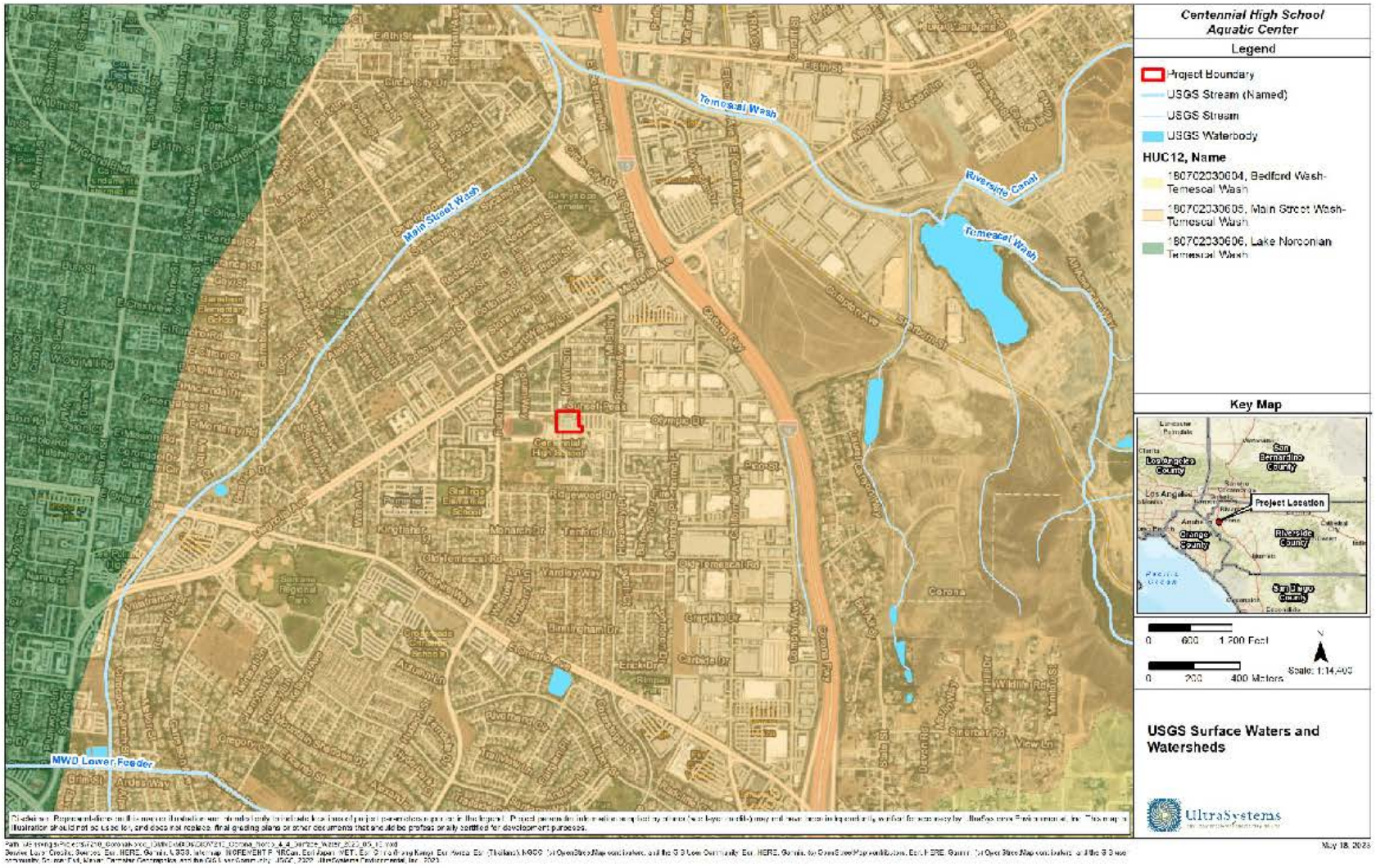
designate beneficial uses for surface waters and groundwater, set narrative and numerical objectives that must be attained or maintained to protect the designated beneficial uses and conform to the State antidegradation policy, and describe implementation programs to protect all waters in the Regions (RWQCB 1995, as amended). In addition, Basin Plans incorporate by reference all applicable State and Regional Board plans and policies, and other pertinent water quality policies and regulations. The proposed project is under the jurisdiction of the Santa Ana (Region 8) RWQCB. The Basin Plan for the Santa Ana Basin, which includes the project site, was updated in 2019.

As shown in **Figure 10.4-1,** *USGS Surface Waters and Watersheds*, the project site is located within the USGS Main Street Wash-Temescal Wash hydrologic unit (HU; HU Code 180702030605), which drains an area of approximately 58 square miles. The Main Street Wash-Temescal Wash HU is located within the larger Temescal Wash HU (1807020306) , which spans about 252 square miles. Temescal Wash is a tributary of the Santa Ana River, which discharges into the Pacific Ocean near the City of Huntington Beach, approximately 39 miles southwest of the project site (USEPA, 2023). Under existing conditions, stormwater generated on the project site drains east toward Rimpau Avenue, and enters the existing storm drain. The storm drain on Rimpau Avenue discharges into Temescal Wash, which is a tributary of the Santa Ana River (USEPA, 2022).

Development of the project has the potential to result in two types of water quality impacts: (1) short-term impacts due to construction-related discharges; and (2) long-term impacts from operation. Temporary soil disturbance would occur during project construction, due to earth-moving activities such as excavation and trenching for foundations and utilities, soil compaction and moving, cut and fill activities, and grading. Disturbed soils are susceptible to high rates of erosion—that is, detaching of soil particles from the ground surface via wind and rain resulting in sediment transport via stormwater runoff from the project area (sedimentation). Erosion and sedimentation affect water quality of receiving waters through interference with photosynthesis, oxygen exchange, and respiration, growth, and reproduction of aquatic species. Runoff from construction sites may include sediments and contaminants such as oils, fuels, paints, and solvents. Additionally, other pollutants such as nutrients, trace metals, and hydrocarbons can attach to sediment and be carried by stormwater into storm drains which discharge eventually to the Pacific Ocean.

Spills and mishandling of construction materials and waste may also potentially leave the project site and impact water quality of receiving waters. The use of construction vehicles and equipment may potentially result in contamination from leaks of petroleum products, hydraulic fluids, and introduction of heavy metals. Contamination from building materials such as paints and solvents, and landscaping materials such as fertilizers, pesticides, and herbicides may also potentially degrade water quality during project construction. Trash and demolition debris may also be carried into storm drains and discharged into receiving waters.

**Figure 4.10-1**
**USGS SURFACE WATERS AND WATERSHEDS**



**Construction Pollutants Control**

The project proponent is required by the California State Water Resources Control Board (SWRCB) to obtain coverage under a General Permit for Discharges of Storm Water Associated with Construction Activity (Construction General Permit Order 2009-0009-DWQ, as authorized by § 402 CWA, NPDES for projects which will disturb one or more acres of soil during construction). A Storm Water Pollution Prevention Plan (SWPPP) has been developed by FPL & Associates, Inc. (FPL) to satisfy the requirements of the Construction General Permit, which requires potential dischargers of pollutants into Waters of the United States (WOUS) to prepare a site-specific SWPPP. The SWPPP establishes enforceable limits on discharges, requires effluent monitoring, designates reporting requirements, and requires construction stormwater and non-stormwater best management practices (BMPs) to reduce or eliminate point and non-point source discharges of pollutants. Additionally, BMPs must be maintained, inspected before and after each precipitation event, and repaired or replaced as necessary. Because the project is required by the SWRCB to comply with all applicable conditions of Construction General Permit Order 2009-0009-DWQ, potential violations of water quality standards or waste discharge requirements during project construction would be less than significant.

**Operational Pollutant Controls**

The *municipal stormwater permit for the portion of Riverside County within the Santa Ana Region* (Order No. R8-2010-0033, NPDES No. CAS618033) regulates the discharge of pollutants into waters of the U.S. through stormwater and urban runoff conveyance systems, including flood control facilities (RWQCB 2010). These conveyance systems are commonly referred to as municipal separate storm sewer systems (MS4s), or storm drains. This NPDES Permit is also referred to as an MS4 Permit.

Pursuant to the MS4 Permit, Principal Permittees and Co-Permittees (the City of Corona is a Co-Permittee) must regulate discharges of pollutants in urban runoff from man-made sources into storm water conveyance systems within their jurisdiction (RWRCB, 2010).

New development and redevelopment can significantly increase pollutant loads in stormwater and urban runoff, because increased population density results in proportionately higher levels of vehicle emissions, vehicle maintenance wastes, municipal sewage wastes, household hazardous wastes, fertilizers, pet waste, trash, and other pollutants. The Riverside County MS4 Permit requires new development and significant redevelopment projects to incorporate post construction low impact development (LID) BMPs into project design through the preparation of a project-specific Water Quality Management Plan (WQMP) to reduce or eliminate the quantity, and improve the quality of, stormwater being discharged from the project site. LID uses site design and stormwater management to maintain the site's pre-development runoff rates and volumes. The goal of LID is to mimic a site's predevelopment hydrology by using design techniques that infiltrate, filter, store, evaporate, and detain runoff close to the source of rainfall. The MS4 requires the implementation of LID features (or BMPs) to ensure that most stormwater runoff is treated and retained onsite. Requirements for LID BMP design are set forth in the Design Handbook for Low Impact Development Best Management Practices issued by the Riverside County Flood Control and Water Conservation District in 2011 (RCFCWCD, 2011).

Structural BMPs include stenciling and signage for the storm drain system; design and construction of trash and waste storage areas to reduce pollution introduction; use of efficient irrigation systems and landscape design, water conservation, smart controllers, and source control; and the finishing of

the grade of landscaped areas at a minimum of one to two inches below top of curb, sidewalk, or pavement. Additionally, LIDs include minimization of impervious areas, maximization of infiltration capacity, and preservation of the existing drainage patterns to mitigate the impacts of runoff and stormwater pollution as close to the source as possible. These facilities are highly effective at removing water pollutants such as sediment, nutrients, trash, metals, bacteria, oil and grease, and organic compounds while reducing the volume and intensity of stormwater flow leaving a site.

Non-structural source control BMPs include BMP maintenance, local water quality ordinances, spill contingency plan, litter/debris control program, employee training, catch basin inspection program, vacuum sweeping of private streets and parking lots, and compliance with the NPDES permits.

**City Swimming Pool Discharge Guidelines**

Guidelines have been established regarding the discharge of pool water in the City of Corona to protect storm drains, channels, creeks, and bays. Prior to the drainage of the swimming pool, the City Public Works Department should be contacted. An Inspector will visit the site to test the level of chlorination in the pool water. Based on the testing and facilities in the area, the Inspector will direct the project proponent to discharge to either the storm drain or sewer. Sewer discharge may include pumping to in-ground sewer clean-out, if safe and accessible.

Where the discharge of pool water to the sanitary sewer is not feasible, federal law allows the release of dechlorinated swimming pool water into the storm drain system. In general, the guideline for such releases requires pool owners to ensure that all the following criteria are met (City of Corona, 2023e):

- *The residual chlorine does not exceed 0.1 mg/l (parts per million);*
- *The pH is between 6.5 and 8.5;*
- *The water is free of any unusual coloration;*
- *There is no discharge of filter media;*
- *There is no discharge of acid cleaning wastes;*
- *The discharge will not cause erosion; and*
- *The discharge will not cause transport of pollutants such as: motor oil; pet waste; trash and other debris into the storm drain system.*

The Inspector will then advise the best method. Acquisition of a permit is not necessary; however, the pool water must be tested before discharging (City of Corona, 2023e).

With implementation of construction and operational BMPs and adherence to the City Swimming Pool Discharge Guidelines, potential impacts to water quality would be less than significant and mitigation is not proposed.

**b) Would the project substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?**

**Less than Significant Impact**

The project site overlies the Upper Santa Ana Valley Groundwater Basin (Basin ID 8-002), within the Temescal subbasin (Subbasin ID 8-2.09). The subbasin covers approximately 37 square miles and is bounded by the Chino Subbasin, marked by the Santa Ana River and a set of low hills of crystalline rock near Norco. The eastern part of the subbasin is bounded by non-water-bearing crystalline rocks

of the El Sobrante de San Jacinto and La Sierra Hills. The subbasin is bounded on the west by the Santa Ana Mountains and the south by the Elsinore Groundwater Basin at a constriction in the alluvium of Temescal Wash (DWR, 2003; Google Earth, 2022).

Corona's water supply is a blend of local groundwater production wells and water that is imported from the Metropolitan Water District of Southern California (MWD; City of Corona, 2023d).

MWD has determined that it has supply capabilities sufficient to meet expected demands from 2025 through 2045 under a single dry year condition and a period of drought lasting five consecutive water years (MWD, 2020).

As detailed in **Section 4.19,** *Utilities and Service Systems*, the project would not substantially deplete groundwater supplies or result in a substantial net deficit in the aquifer volume or lowering of the local groundwater table. The project would have a less than significant impact in this regard and mitigation is not required.

**c) Would the project substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would:**

**i) Result in substantial erosion or siltation on- or offsite;**

**Less Than Significant Impact**

The project site is relatively flat, with elevations ranging from approximately 781 to 808 feet above mean sea level (amsl; Google Earth, 2023). Ephemeral, intermittent, or perennial streams or rivers are not located on the project site. As detailed in Section **4.10 a),** the District would be required to develop a SWPPP prepared by a certified qualified SWPPP developer. The required SWPPP would be project specific and would prescribe site specific stormwater and non-stormwater BMPs which would be designed to minimize or avoid soil erosion and transport from the site via water or wind, and siltation in receiving waters.

Implementation of the project-specific SWPPP and proper maintenance and replacement of required stormwater and non-stormwater BMPs (as necessary) would minimize erosion or siltation, and impacts would be less than significant. No mitigation is proposed.

**Construction**

As described in **Section 4.10 a)**, construction would involve extensive soil disturbance. With the implementation of the BMPs provided in the SWPPP, the risk of sedimentation would be low. Implementation of the required SWPPP BMPs, including installation, maintenance, and replacement of BMPs, as discussed in **Section 4.10 a**) would minimize or avoid potential impacts resulting from on- or offsite erosion and siltation to a level that is less than significant.

**Operation**

As detailed in **Section 4.10 a)**, LID BMPs that would be incorporated as part of project design would minimize or avoid on- or offsite erosion and siltation by a combination of maintaining drainage patterns, installation of landscaping, and installation of LID BMPs which would prevent or minimize

erosion and sedimentation. Applicable regulations (e.g., the MS4 permit and the Design Handbook for LID BMPs), would limit pollutant discharges from development of the project.

Erosion control BMPs are a source control measure designed to prevent soil particles from detaching and becoming transported in the storm water runoff. Erosion Control BMPs protect the soil surface by covering and/or binding the soil particles. All inactive soil disturbed areas on the project site, and most active areas prior to the onset of rain, must be protected from erosion. Soil disturbed areas may include relatively flat areas as well as slopes. Inactive areas include areas of construction activity that have been disturbed but are not currently being worked on and are not scheduled to be re-disturbed for at least 14 days. This project will incorporate minimum temporary soil stabilization requirements, temporary erosion control/soil stabilization measures required by the contract documents, and other measures selected by the Contractor. This construction project will implement the following practices to assure effective temporary and final erosion control during construction (FPL, 2023; pg. 21).

Sediment controls are structural measures that are intended to complement and enhance the soil stabilization/erosion control measures and reduce sediment discharges from construction areas. Sediment controls are designed to intercept and filter out soil particles that have been detached and transported by the force of water. This project will incorporate minimum temporary sediment control requirements, temporary sediment control measures required by the contract documents, and other measures selected by the contractor. Temporary sediment control materials will be maintained on-site throughout the duration of the project, to allow implementation of temporary sediment controls in the event of predicted rain, and for rapid response to failures or emergencies, in conformance with requirements and as described in this SWPPP. This includes implementation requirements for active areas and non-active areas before the onset of anticipated rain events (FPL, 2023; pg. 23).

Tracking controls shall be considered and implemented year-round and throughout the duration of the project, at all access (ingress/egress) points to the project site where vehicles and/or equipment may track sediment from the construction site onto public or private roadways (FPL, 2023; pg. 25).

Wind erosion control BMPs shall be considered and implemented year-round and throughout the duration of the project on all disturbed soils on the project site that are subject to wind erosion, and when significant wind and dry conditions are anticipated during project construction. The objective of wind controls is to prevent the transport of soil from soil-disturbed areas of the project site, off-site by wind (FPL, 2023; pg. 25).

All efforts will be made to the project to reduce or eliminate non-storm water discharges from the site with the use of Non-Storm Water Management BMPs, Materials and Waste Management BMPs, in addition to good housekeeping measures (FPL, 2023; pg. 26).

Waste management consists of implementing procedural and structural BMPs for collecting, handling, storing and disposing of wastes generated by a construction project to prevent the release of waste materials into storm water discharges. Wastes are going to be generated during construction; however, the methods in which the wastes are collected, stored, and removed will determine the success of the waste management activities. Construction site wastes can range from residues collected from non-storm water discharges (i.e., paint removal) to general site litter and debris (FPL, 2023; pg. 29).

Non-structural controls are practices that are specifically intended to reduce or prevent the generation of storm water pollutants. They are generally implemented to address the problem at the source and do not require any structural changes to the facility. Structural control measures may be necessary to control any pollutants that are still present in the storm water after the nonstructural controls have been implemented. These types of controls are physical features that control and prevent storm water pollution. They can range from preventive measures to treatment systems. Structural controls require the construction of a physical feature or barrier. This project will not be utilizing a post-construction structural BMP for storm water retention (FPL 2023; pg. 31).

The project's adherence to existing requirements would reduce erosion and siltation during operation; therefore, impacts resulting from operation of the project would be less than significant. **Table 4.10-1** provides details of all BMPs as included in the project-specific SWPPP.

**Table 4.10-1**
**SWPPP BMPs**

| BMP No. and Name | Description |
|---|---|
| **Erosion Control BMPs** | |
| **EC-1 Scheduling** | Perimeter sediment controls, including controls along the physical site perimeter and at active storm drain inlets and sediment basins, shall be implemented before the start of construction for each major active area of construction, and maintained throughout the duration of construction activities for each area. Additional sediment control measures will be taken during the rainy season including additional temporary debris basins and stockpiling of emergency gravel bags. Perimeter controls will be added as new active construction areas come online. Schedule major grading operations during dry months when practical. Allow sufficient time prior to the onset of rainfall to stabilize the soil with vegetation or physical means or to install sediment trapping devices. When rainfall is predicted, adjust the construction schedule to allow the implementation of soil stabilization and sediment treatment controls on all disturbed areas prior to the onset of rain. |
| **EC-2 Preservation of Existing Vegetation** | Some of the existing trees will be protected in place, others will be removed as noted on the site demolition plan |
| **Sediment Control BMPs** | |
| **SE-5 Fiber Rolls** | Fiber rolls are placed at the toe and on the face of slopes along the contours, intercepting runoff, reducing flow velocity, releasing runoff as sheet flow, removing sediment from runoff, and reducing sheet and rill erosion until vegetation is established. |
| **SE-6 Gravel Bag Berms** | Gravel bag berms shall be used below the toe of exposed slopes, as sediment traps at culvert/pipe outlets, along the site perimeter, around temporary stockpiles, parallel to roadways, chevrons in streets, or as check dams along mildly sloping construction roads. May be utilized in lieu of or in conjunction with Fiber Rolls (SE-5) |
| **SE-7 Street Sweeping and Vacuuming** | Visible sediment tracking onto public and private streets from the project site shall be swept on a daily basis, |

| BMP No. and Name | Description |
|---|---|
| | particularly at points of egress, to prevent sediments from entering storm drains and receiving waters. |
| **SE-10 Storm Drain Inlet Protection** | Active storm drain inlets shall be protected prior to the start of construction and maintained throughout the duration of construction activities. Secondary sediment control measures, such as chevrons, are usually required upstream of the inlet to maximize the effectiveness of this BMP. Fiber Rolls (SE-6), and Gravel Bag Berms (SE-7) may be utilized for inlet protection. |
| **Tracking Control BMPs** | |
| **TC-1 Stabilized Construction Entrance/Exit** | Construction entrances shall be stabilized at all points of site ingress and egress. The pad of aggregate will have minimum dimensions of 25 feet in length and 20 feet in width. Rumble racks (i.e. shaker plates) will be included to provide additional sediment removal. |
| **TC-3 Entrance/Outlet Tire Wash** | If tracking is a continued problem, the construction site entrance will be equipped with a wheel wash facility to remove excess soil and debris from truck tires prior to leaving the site. |
| **Wind Erosion Control BMPs** | |
| **WE-1 Wind Erosion Control** | Dust control measures shall be used to stabilize soil from wind erosion, primarily in the form of construction watering (i.e. wet suppression). This BMP should be considered in the following areas of activity: (1) construction vehicle traffic on unpaved roads, (2) drilling and blasting activities, (3) soil and debris storage piles, (4) batch drop from front-end loaders, (5) unstabilized soil, and (6) final grading. The project site should be inspected daily to determine the need to implement this BMP and water trucks will be on-site during all active grading activities. In addition, wind screen fencing will be implemented along the perimeter of the project site. |
| **Non-Storm Water Management BMPs** | |
| **NS-1 Water Conservation Practices** | Water conservation practices shall be implemented to prevent erosion and the transport of pollutants off-site. Water equipment shall be maintained in good working order, water truck filling area will be stabilized, water leaks shall be repaired promptly, and vehicle / equipment washing is discouraged. |
| **NS-3 Paving and Grinding Operations** | In order to reduce the potential for the transport of pollutants in storm water runoff from paving operations, paving shall be avoided within 72 hours of a forecast significant storm event. Paving and grinding materials shall be stored away from drainage courses. Train employees and subcontractors in pollution prevention and reduction. Disposal of PCC (Portland cement concrete) and AC (asphalt concrete) waste should be in conformance with WM-8, Concrete Waste Management. |
| **NS-6 Illicit Connection/Discharge** | The contractor shall regularly inspect the project site for illicit connections and discharges off-site (quarterly at a minimum). Notify the owner of any illicit connections and illegal dumping or discharge incidents at the time of |

| BMP No. and Name | Description |
|---|---|
| | discovery and document in SWPPP. For illicit connections or discharges to the storm drain system, notify the local storm water management agency. For illegal dumping, notify the local law enforcement agency. |
| **NS-7 Potable Water/Irrigation** | Managing the discharge of potential pollutants generated during discharges from irrigation water lines, landscape irrigation, lawn or garden watering, planned and unplanned discharges from potable water sources, water line flushing, and hydrant flushing. Discharges from water line flushing should be reused for landscaping purposes where feasible. Shut off the water source to broken lines, sprinklers, or valves as soon as possible to prevent excess water flow. Adjust watering times and schedules to ensure that the appropriate amount of water is being used and to minimize runoff. |
| **NS-8 Vehicle and Equipment Cleaning** | Vehicles and equipment will be washed off-site at a proper wash facility. The contractor should not permit any vehicle or equipment washing at the job site, unless the wash water can be appropriately captured and treated. Cleaning of vehicles and equipment with soap, solvents or steam should not occur on the project site unless resulting wastes are fully contained and disposed of. Resulting wastes should not be discharged or buried, and must be captured and recycled or disposed according to the requirements of WM-10, Liquid Waste Management or WM-6, Hazardous Waste Management, depending on the waste characteristics. Minimize use of solvents. Use of diesel for vehicle and equipment cleaning is prohibited. |
| **NS-10 Vehicle and Equipment Maintenance** | Vehicles and equipment will be repaired off-site at a proper maintenance facility. If on-site repair is the only practical alternative, it will be conducted within designated maintenance areas (at least 50 feet away from drainage facilities and watercourses) in order to enable careful management. Drip pans/ tarp will be placed under vehicles and equipment not in use for long periods. For long-term projects, consider using portable tents or covers over maintenance areas if maintenance cannot be performed offsite. |
| **NS-12 Concrete Curing** | Avoid over spraying of curing compounds. Should runoff be generated, cure water shall be directed away from inlets to areas for infiltration or collection and disposal. Protect drain inlets prior to the application of curing compounds. See WM-8 Concrete Waste Management. |
| **NS-13 Concrete Finishing** | Should runoff be generated, water from blasting operations shall be directed away from inlets to areas for infiltration or collection and disposal. Debris from blasting operations should be swept up at the end of each shift. Refer to WM-8, Concrete Waste Management for disposal of concrete debris. Protect inlets during sandblasting operations. Refer to SE-10, Storm Drain Inlet Protection. |
| **Material and Waste Management BMPs** | |

| BMP No. and Name | Description |
|---|---|
| **WM-1 Material Delivery and Storage** | All construction materials will be delivered to and stored in designated areas at the construction site. The main loading, unloading, and access areas shall be located away from storm drain facilities and drainage courses. The contractor will construct enclosures or flow barriers around these areas to prevent storm water flows and pollutants from entering storm drains or receiving waters. Berms, palettes, secondary containment measures and/or storage sheds shall be used where applicable. |
| **WM-2 Material Use** | All materials shall be used according to the directions provided on their labels. Manufacturer's instructions shall be followed and employees will be provided training on proper material use. Material Safety Data Sheets (MSDS) should be available on-site for all materials stored that have the potential to effect water quality. Do not over-apply fertilizers, herbicides, and pesticides. Prepare only the amount needed. Follow the recommended usage instructions. Dispose of latex paint and paint cans, used brushes, rags, absorbent materials, and drop cloths, when thoroughly dry and are no longer hazardous, with other construction debris. Mix paint indoors or in a containment area. Never clean paintbrushes or rinse paint containers into a street, gutter, storm drain, or watercourse. Dispose of any paint thinners, residue, and sludge(s) that cannot be recycled, as hazardous waste. Keep ample supplies of spill cleanup material near use areas in accordance with WM-4, Spill Prevention and Control. |
| **WM-3 Stockpile Management** | Sediment stockpiles will be located away from drainage courses (minimum of 50 ft separation recommended) and protected from run-on using temporary sediment barriers such as fiber rolls (SE-5), or gravel bags (SE-6). Refer to the individual fact sheet for each of these controls for installation information. During the rainy season, soil stockpiles will be covered at all times when not in use. During the dry season, they shall be covered prior to the onset of precipitation. Construction bagged materials stockpiles, such as cold mix, will be covered and placed on pallets and under cover. |
| **WM-4 Spill Prevention and Control** | Spills will be cleaned up immediately. Hazardous materials will be stored in covered containers. Spill and cleanup kits should be readily available on-site. Proper spill cleanup procedures and spill reporting instructions shall be posted in an accessible and visible location. Hosing down of spills is prohibited. Use a rag for small spills on paved surfaces, a damp mop for general cleanup, and absorbent material for larger spills. If the spilled material is hazardous, then the used cleanup materials are also hazardous and must be sent to either a certified laundry (rags) or disposed of as hazardous waste. |
| **WM-5 Solid Waste Management** | Waste collection areas shall be designate on-site and the areas Solid Waste should provide covers or secondary containment. Trash and debris Management should also |

| BMP No. and Name | Description |
|---|---|
| | be collected on a daily basis. The disposal of liquid or hazardous wastes in this area should not be allowed. Trash receptacles will also be provided throughout the project site to prevent littering. Arrange for regular waste collection before containers overflow. Do not hose out dumpsters on the construction site. Leave dumpster cleaning to the trash hauling contractor. |
| **WM-6 Hazardous Waste Management** | Wastes should be stored in sealed containers constructed of a suitable material and should be labeled as required by Title 22 CCR, Division 4.5 and 49 CFR Parts 172, 173, 178, and 179. Hazardous wastes shall be disposed of in accordance to federal, state, and local regulations. Temporary containment facility should provide for a spill containment volume equal to 1.5 times the volume of all containers able to contain precipitation from a 25 year storm event, plus the greater of 10% of the aggregate volume of all containers or 100% of the capacity of the largest tank within its boundary, whichever is greater. Paint washouts will be provided where painting activities occur. Employees will be trained appropriately on hazardous waste management. |
| **WM-7 Contaminated Soil Management** | Minimize onsite storage of contaminated soils. Contaminated soils should be disposed of properly in accordance with all applicable regulations. If temporary stockpiling is necessary, cover the stockpile with plastic sheeting or tarps, install a berm around the stockpile to prevent runoff from leaving the area, and do not stockpile in or near storm drains or watercourses. Implement WM-4, Spill Prevention and Control, to prevent leaks and spills as much as possible. |
| **WM-8 Concrete Waste Management** | Whenever possible, concrete trucks will be washed out off-site in designated areas. If washout must occur on-site, wash water will be contained in a temporary washout facility. Washout should be lined so there is no discharge into the underlying soil. Upon completion of the concrete work, the contractor will break up, remove, and haul away solid concrete that has accumulated in the washout pit. Stockpile concrete demolition waste in accordance with BMP WM3, Stockpile Management. |
| **WM-9 Sanitary/Septic Waste Management** | All sanitary wastes will be collected and managed through the use of portable toilet facilities. Portable toilets will be transported to and from the construction site by a licensed contractor. Portable toilets shall be located away from drainage coursed (recommended minimum of 50 ft), and equipped with containment. No sanitary wastes will be disposed of onsite. If a spill does occur from a temporary sanitary facility, follow federal, state and local regulations for containment and cleanup. |
| **WM-10 Liquid Waste Management** | Liquid wastes generated as part of an operational procedure should be contained and not allowed to flow into drainage channels or receiving waters prior to treatment. Liquid wastes should be contained in a controlled area such as a holding pit, sediment basin, roll- |

| BMP No. and Name | Description |
|---|---|
| | off bin, or portable tank. Containment devices must be structurally sound, leak free, and of sufficient quantity or volume to completely contain the liquid wastes generated. Containment areas or devices should not be located where accidental release of the contained liquid can threaten health or safety or discharge to water bodies, channels, or storm drains. Implement WM-4, Spill Prevention and Control, to prevent leaks and spills as much as possible. |
| **Non-Structural Source Control BMPs** | |
| **Education** | Educational materials and training will be provided including education materials and restrictions to reduce pollutants from reaching the storm drain system. |
| **Activity Restrictions** | Activity restrictions will be developed that include those that have the potential to create adverse impacts on water quality. Activities include, but are not limited to: handling and disposal of contaminants, fertilizer and pesticide application restrictions, litter control and pick-up, vehicle or equipment repair and maintenance and animal facility uses. |
| **Common Area Landscape Management** | Responsible party shall verify that irrigation timing and cycle lengths are adjusted in accordance with water demands, given time of year, weather, and day or night time temperatures. |
| **Common Area Litter Control** | The owner will implement a litter control plan and work to control areas litter and center trash management as needed. |
| **Catch Basin Inspection** | All on-site catch basins, grate inlets, and drainage facilities shall be inspected and cleaned when necessary, prior to the rainy season, no later than October 1, each year. |
| **Street Sweeping Private Streets and Parking Lots** | Private streets and parking areas within the project shall be swept at a minimum frequency of once per month |
| **Efficient Irrigation System and Landscape Design** | In conjunction with maintenance activities, verify that landscape design continues to function properly to eliminate overspray to hardscape areas, and to verify that irrigation timing and cycle lengths are adjusted in accordance with water demands, given time of year, weather, and day or nighttime temperatures. |

**Source**: BMPs from the SWPPP for the Centennial High School Aquatic Center (FPL, 2023; pgs. 22-33) .

**ii) Substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or offsite;**

**iii) Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?**

**Less than Significant Impact**

The WQMP prepared for this project would fulfill the applicable standards and requirements of the Santa Ana Region Basin Plan (RWQCB 1995, as amended). The WQMP would maintain consistency

with existing drainage patterns and LID BMPs, as required by the MS4, and would mitigate the post-construction increase in peak flow of runoff from the site for the 2-, 5-, and 10-year storm events.

The project would not substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or offsite, create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems, or provide substantial additional sources of polluted runoff. The proposed project design would incorporate operational LID BMPs in compliance with the MS4 permit requirements. The MS4 requires the implementation of water quality LID BMPs to ensure that runoff is treated prior to discharge into native soils (infiltration), storm drains or other regional conveyance facilities, as described above. Impacts would be less than significant; no mitigation is proposed.

**iv) Impede or redirect flood flows?**

**No Impact**

The project site is located on the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM) for Riverside County, California and Incorporated Areas (Map Number 06059C0225J), effective August 20, 2008). The project site is located within Flood Hazard Zone X, defined on this FIRM as *Areas of minimal flood hazard* (FEMA, 2008). The areas of minimal flood hazard, such as Zone X, are outside of the Special Flood Hazard Area (SFHA) and higher than the elevation of the 500-year flood areas. The project site is located outside the nearest floodplain and the proposed project would not impede or redirect flood flows. No impact would occur, and mitigation is not required.

**d) In flood hazard, tsunami, or seiche zones, would the project risk release of pollutants due to project inundation?**

**No Impact**

Three dams or reservoirs are located within a five-mile radius of the project site: Mathews, Oak Street, and Mabey Canyon; the project is not located within the dam breach inundation areas of the abovementioned dams or reservoirs (DWR, 2023) and would not be at risk of flood hazards due to dam breaches. As discussed previously, the project site is located outside the 500-year floodplain and would not be at risk of inundation by flood hazards.

The tsunami inundation area nearest to the project site is the City of Newport Beach, located approximately 28 miles southwest of the project site (Google Earth, 2023; CEMA, CGS, and USC, 2009), and therefore the site would not be at risk of inundation by tsunami.

A seiche is an oscillating wave, formed by earthquakes or winds, in an enclosed or partially enclosed waterbody. The nearest waterbodies in which a seiche could form are Lake Mathews located approximately five miles east from the project, a reservoir located approximately 1.2 miles northeast from the project, and a lake located approximately three miles southeast from the project. The project site is not within the dam breach inundation areas mapped for these waterbodies (DWR, 2023), and the project would not be at risk of inundation by seiche.

The proposed project would not be at risk of inundation by flood hazards, tsunami, or seiche, and would therefore not be at risk of release of pollutants due to inundation. No impact would occur, and mitigation is not required.

**e) Would the project conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?**

**No Impact**

The nearest water well (CASGEM Well ID: 46728 [State Well Number not available]) is located approximately 1.26 miles northwest of the project. This active well is designated for irrigation use; the depth of this well is unknown (CASGEM 2023).

As discussed in **Section 4.10 a)**, the proposed project would comply with the Construction General Permit by developing and implementing a site-specific SWPPP (see **Table 4.10-1**) and construction stormwater BMPs throughout the construction phase (refer to **Table 4.10-1**). The proposed project would also comply with the MS4 Permit by incorporating LID BMPs into project design, which would avoid or minimize the amount and type of pollutants leaving the project, entering receiving waters, and impacting water quality and beneficial uses defined for these waters by the Basin Plan (RWQCB, 1995, as amended). In addition, LID BMPs would allow stormwater infiltration into the local aquifer and minimize or avoid impacts to groundwater quality, and to beneficial uses of the Upper Santa Ana Valley Groundwater Basin (RWQCB, 1995).

The Groundwater Sustainability Plan for the Temescal Subbasin (GSP) was issued by the cities of Corona and Norco and the Home Gardens County Water District in 2022. The GSP establishes a water budget for the subbasin, and specifies projects and management actions to achieve the sustainability goal (Corona et. al., 2022), The proposed project would not include a groundwater well, and the project would not demand water at a rate exceeding what the City of Corona could supply in accordance with the GSP (see **Section 4.19**, *Utilities and Service Systems*, for discussion of project water demands relative to water supplies). The proposed project would not conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan; no impact would occur, and mitigation is not required.

## 4.11 Land Use and Planning

| Would the project: | Potentially Significant Impact | Less than Significant Impact with Mitigation Incorporated | Less than Significant Impact | No Impact |
|---|---|---|---|---|
| a) Physically divide an established community? | | | | **X** |
| b) Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect? | | | | **X** |

### a) Would the project physically divide an established community?

**No Impact**

The project is located within the Centennial High School campus. The project would redevelop the project site within the campus and would not extend into any adjacent private property or public right-of-way (ROW). Project development would not physically divide an established community, and no impact would occur.

### b) Would the project cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?

**No Impact**

The project site has a General Plan land use designation of Schools (S) (City of Corona, 2014a) (refer to **Figure 4.11-1** below). The project site is zoned Schools (City of Corona, 2014b) (see **Figure 4.11-2**). The proposed replacement of the Centennial High School aquatics would not conflict with any applicable regulations regarding its land use and zoning designation.

A consistency analysis of the proposed project respecting relevant City of Corona General Plan Land Use Element goals and policies is provided below in **Table 4.11-1**. No adverse impact would occur.

**Table 4.11-1**
**CONSISTENCY ANALYSIS: PROPOSED PROJECT COMPARED TO RELEVANT CITY OF CORONA GENERAL PLAN LAND USE ELEMENT GOALS AND POLICIES**

| Goals and Policies | Consistency Analysis |
|---|---|
| **Goal LU-15: A mix of governmental service, institutional, educational, recreational, and utility facilities that support the needs of Corona's residents and businesses and improve the quality of life in the community.** | |
| **Policy LU-15.1:** Accommodate existing schools, parks, government, fire and police facilities, utility, and institutional uses suited to serving the local needs of Corona residents and business in accordance with the land use plan's designations and applicable design and development policies. | **Consistent:** The school's pool facilities are outdated and do not meet the students' needs. The aquatic center replacement is proposed to meet the needs of the school and students. Therefore, the project would be consistent with this policy. |
| **Policy LU-15.2:** Allow for the development of new schools, parks, government, fire and police facilities, utility, and institutional uses in any location of the City, regardless of the land use plan's designation, provided the use is environmentally suitable and compatible with adjoining land uses, and adequate infrastructure can be provided. | **Consistent:** As analyzed throughout this entire document, there would be no significant environmental impacts due to the development of the proposed project. Additionally, the project is suitable to the surroundings because the project would redevelop the existing pool facilities. Therefore, the project would be consistent with this policy. |
| **Policy LU-15-4:** Ensure that the City's public buildings, sites, and infrastructure are designed to be compatible in scale, mass, character, and architecture with the district and neighborhood in which they are located and pertinent design and development characteristics specified by this plan. | **Consistent:** The proposed project would adhere to applicable General Plan and Municipal Code development regulations. Therefore, the project would be consistent with this policy. |

**Source:** Placeworks, 2019, p. LU-40

**Figure 4.11-1**
**GENERAL PLAN LAND USE DESIGNATION**

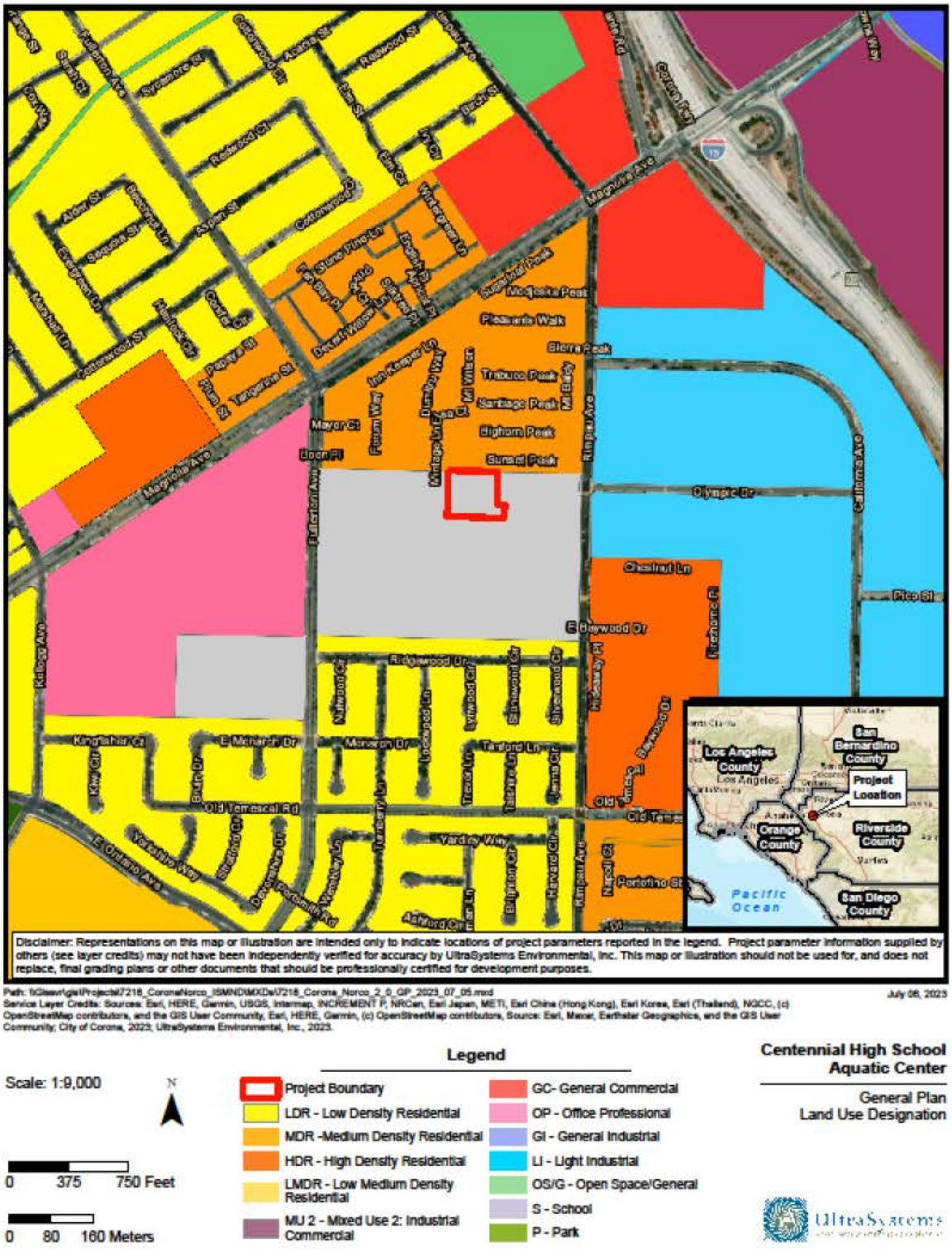
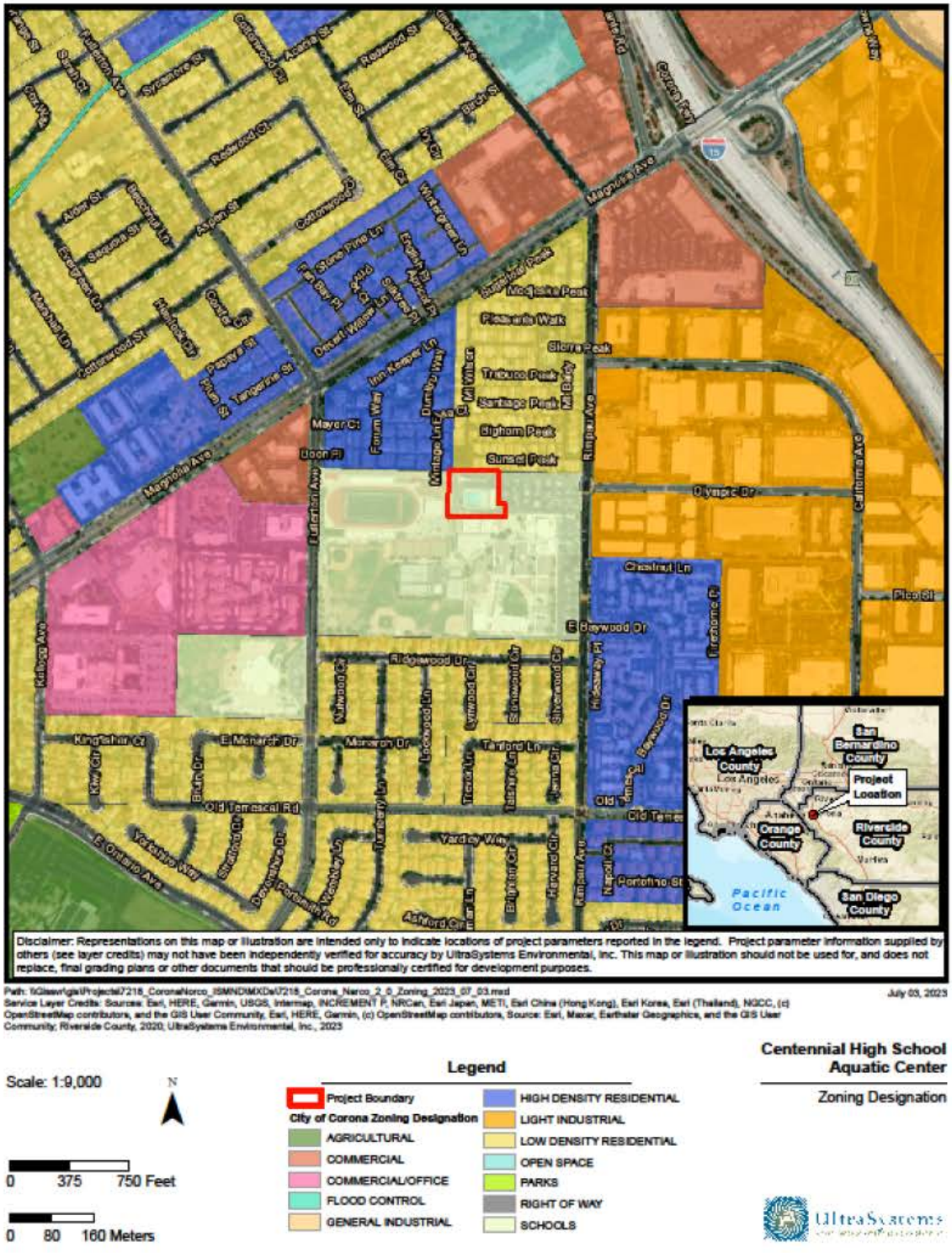


**Figure 4.11-2**
**ZONING DESIGNATION**



## 4.12 Mineral Resources

| Would the project: | Potentially Significant Impact | Less than Significant Impact with Mitigation Incorporated | Less than Significant Impact | No Impact |
|---|---|---|---|---|
| a) Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state? | | | | **X** |
| b) Result in the loss of availability of a locally-important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan? | | | | **X** |

**a) Would the project result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?**

**and**

**b) Would the project result in the loss of availability of a locally important mineral resource recovery site delineated on a local general plan, specific plan, or other land use plan?**

**No Impact**

The proposed project site is located within Mineral Resource zone 3 (MRZ-3) as shown in **Figure 4.12-1**. MRZ-3 designates areas containing known or inferred mineral occurrences of undetermined resource significance. The project site is part of a built-out high school campus that is surrounded by residential and commercial uses, and is therefore unavailable for mining.

According to the 'Well Finder' tool provided by the California Department of Conservation Division of Oil, Gas, & Geothermal Resources, the project site is not located near (within three miles of) any oil or gas wells. The nearest active oil or gas well is located about 7.5 miles to the northwest, as shown in **Figure 4.12-2.**

Therefore, the project site is not an important local mineral resource recovery site and the project would have no significant impact on the availability of known mineral resources of value to the region or state residents, and on any locally important mineral resource recovery sites.

**Figure 4.12-1**
**DESIGNATED MINERAL RESOURCE ZONES**

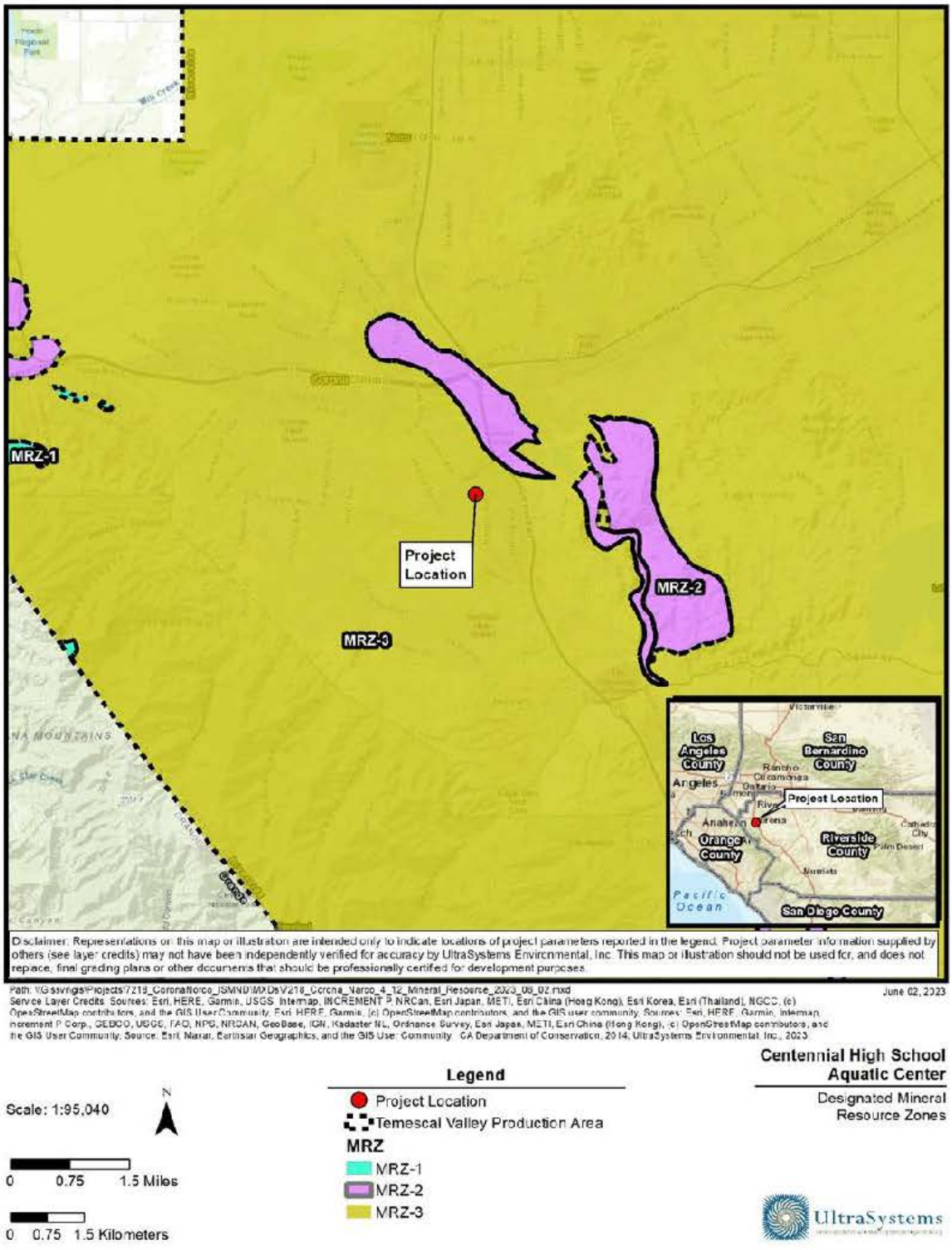
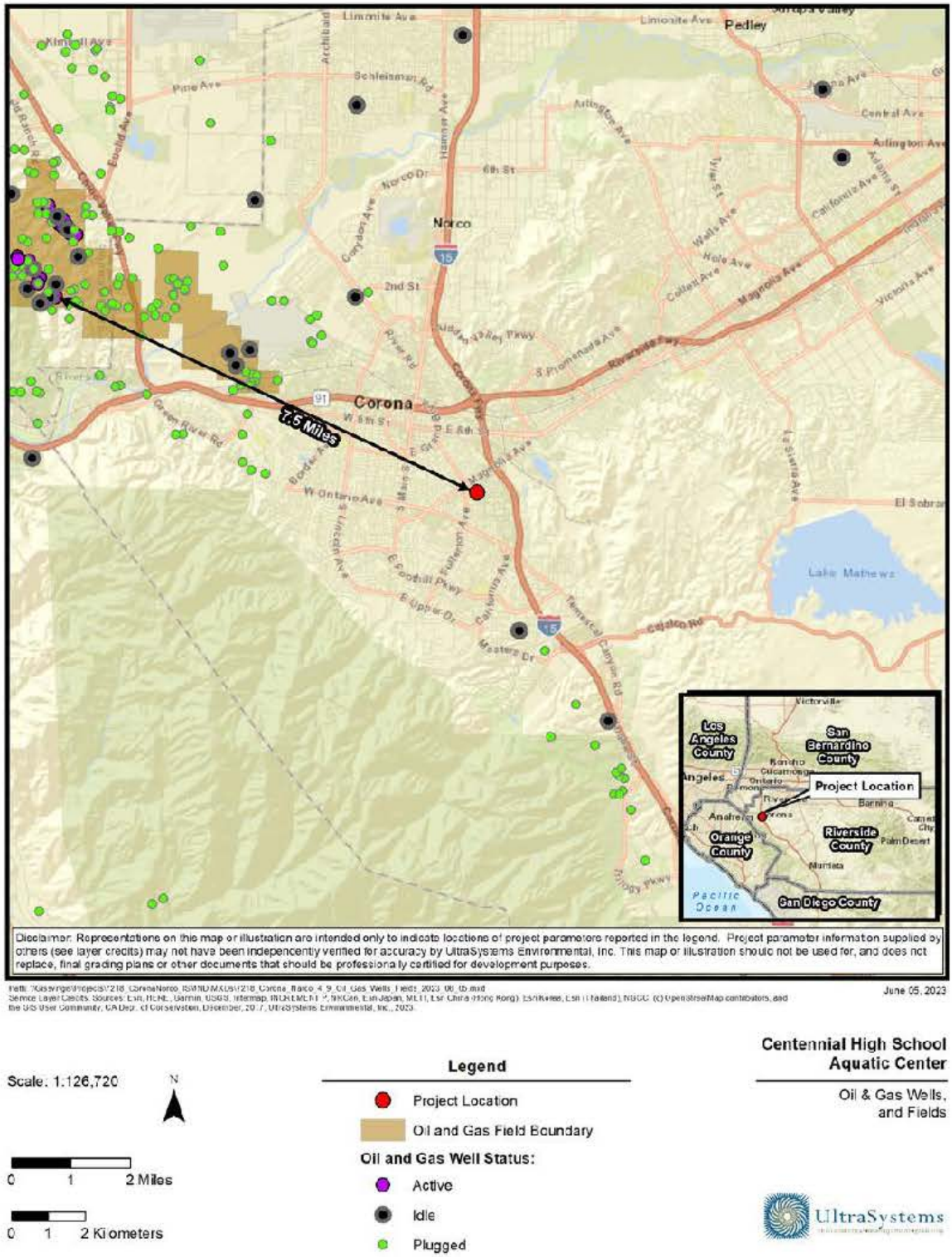


**Figure 4.12-2**
**OIL & GAS WELLS, AND FIELDS**



## 4.13 Noise

| Would the project result in: | Potentially Significant Impact | Less than Significant Impact with Mitigation Incorporated | Less than Significant Impact | No Impact |
|---|---|---|---|---|
| a) Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies? | | **X** | | |
| b) Generation of excessive groundborne vibration or groundborne noise levels? | | **X** | | |
| c) For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels? | | | | **X** |

### 4.13.1 Characteristics of Sound

Sound is a pressure wave transmitted through the air. It is described in terms of loudness or amplitude (measured in decibels), frequency or pitch (measured in hertz or cycles per second), and duration (measured in seconds or minutes). The decibel (dB) scale is a logarithmic scale that describes the physical intensity of the pressure vibrations that make up any sound. The pitch of the sound is related to the frequency of the pressure vibration. Because the human ear is not equally sensitive to all frequencies, a special frequency-dependent rating scale is used to relate noise to human sensitivity. The A-weighted decibel scale (dBA) provides this compensation by discriminating against upper and lower frequencies in a manner approximating the sensitivity of the human ear. The scale is based on a reference pressure level of 20 micro pascals (zero dBA). The scale ranges from zero (for the average least perceptible sound) to about 130 (for the average human pain level).

### 4.13.2 Noise Measurement Scales

Several rating scales have been developed to analyze the adverse effects of community noise on people. Since environmental noise fluctuates over time, these scales consider that the effect of noise on people depends largely upon the total acoustical energy content of the noise, as well as the time of day when the noise occurs. Those that are applicable to this analysis are as follows:

- $L_{eq}$, the equivalent noise level, is an average sound level over a defined time period (such as 1 minute, 15 minutes, 1 hour or 24 hours). Thus, the $L_{eq}$ of a time-varying noise and that of a steady noise are the same if they deliver the same acoustic energy to the ear during exposure.
- $L_{90}$ is a noise level that is exceeded 90 percent of the time at a given location; it is often used as a measure of "background" noise.

- $L_{max}$ is the root mean square (RMS) maximum noise level during the measurement interval. This measurement is calculated by taking the RMS of all peak noise levels within the sampling interval. $L_{max}$ is distinct from the peak noise level, which only includes the single highest measurement within a measurement interval.
- CNEL, the Community Noise Equivalent Level, is a 24-hour average $L_{eq}$ with a 4.77-dBA "penalty" added to noise during the hours of 7:00 p.m. to 10:00 p.m., and a 10-dBA penalty added to noise during the hours of 10:00 p.m. to 7:00 a.m. to account for noise sensitivity in the evening and nighttime (Hendriks, 2013). The logarithmic effect of these additions is that a 60-dBA 24-hour $L_{eq}$ would result in a calculation of 66.7 dBA CNEL.
- $L_{dn}$, the day-night average noise, is a 24-hour average $L_{eq}$ with an additional 10-dBA "penalty" added to noise that occurs between 10:00 p.m. and 7:00 a.m. The $L_{dn}$ metric yields values within 1 dBA of the CNEL metric. As a matter of practice, $L_{dn}$ and CNEL values are considered to be equivalent and are treated as such in this assessment.

### 4.13.3 Existing Noise

The City of Corona's municipal code lists "sensitive land uses" as locations where human populations (especially children, senior citizens, and sick persons) are present, and may be subject to stress or significant interference from noise (City of Corona Municipal Code, 2023). Sensitive receivers located within the city of Corona include residential uses (particularly those in the vicinity of I-15 and I-215 Freeways), schools, hospitals, churches, convalescent homes and parks. Additionally, the City's municipal code has applicable noise standards in regard to construction noise, interior noise, and exterior noise (City of Corona Municipal Code, 2023). The closest sensitive receivers to the project site include the single-family neighborhoods directly north, south, and northwest of the project site; the single-family homes across Rimpau Avenue east of the project site; Vintage Terrace Senior Apartments west of the project site; and John Stalling Elementary School, southwest of the project site (Google Earth Pro, 2021). Centennial High School is also considered an onsite sensitive receiver so construction noise exposure levels at the nearest classroom are also taken into account. Sensitive receivers are shown in **Figure 4.13-1**. **Table 4.13-1** summarizes information about them.

**Table 4.13-1**
**SENSITIVE RECEIVERS IN PROJECT AREA**

| Description | Location | Distance From Site Boundary (feet) | Nearest Ambient Sampling Point[b] |
|---|---|---|---|
| Single-family Residence | 1781 Mintage Lane | 14 | 1 |
| Single-family Residence | 1550 Rimpau Avenue | 48 | 2 |
| Single-family Residence | 1116 Chestnut Avenue | 624 | 3 |
| Vintage Terrace Senior Apartments | 1942 Fullerton Avenue | 987 | 4 |
| Single-family Residence | 1027 Ridgewood Drive | 802 | 5 |
| John Stalling Elementary School | 1980 Fullerton Avenue | 475 | 6 |
| Centennial High School | 1820 Rimpau Avenue | N/A | None |

[a] These are not necessarily the distances used in the construction noise calculations. See **Section 4.13.6**.
[b] See **Figure 4.13-2** for locations of ambient noise sampling points.

**Figure 4.13-1**
**SENSITIVE RECEIVERS NEAR THE PROJECT SITE**



On May 18, 2023, UltraSystems obtained 15-minute ambient noise level samples at six locations in the general area of the project. Sampling locations are shown in **Figure 4.13-2** (see **Appendix J**). Measurements were made between 11:36 a.m. and 4:27 p.m. As shown in **Table 4.13-2,** average short-term ambient noise levels ($L_{eq}$) ranged from 49.6 to 71.8 dBA $L_{eq}$. The 71.8-dBA noise level was along Rimpau Avenue, behind a single-family building. All monitored noise levels were within the range considered typical for the nearby land uses.

**Table 4.13-2**
**AMBIENT NOISE MEASUREMENT RESULTS**

| Point | Data Set | Sampling Time | Address | Sound Level (dBA) | | | Notes |
|---|---|---|---|---|---|---|---|
| | | | | $L_{eq}$ | $L_{max}$ | $L_{90}$ | |
| **1** | S006 | 1504-1519 | 1781 Mintage Lane | 49.6 | 62.5 | 43.0 | In front of a single-family residence northwest of project site. |
| **2** | S003 | 1136-1151 | 1550 Rimpau Avenue | 53.3 | 72.9 | 45.6 | In Centennial High School parking lot behind a single-family residence. |
| **3** | S008 | 1612-1627 | 1116 Chestnut Avenue | 71.8 | 88.9 | 58.9 | Behind single-family residence east of the project site. |
| **4** | S007 | 1540-1555 | 24 Jefferson Avenue | 66.7 | 80.0 | 60.1 | On the sidewalk behind a single-family residence east of the project site. |
| **5** | S005 | 1314-1329 | 1027 Ridgewood Drive | 54.4 | 72.5 | 42.0 | In front of a single-family residence south of the project site. |
| **6** | S004 | 1231-1246 | 1980 Fullerton Avenue | 64.2 | 75.9 | 49.9 | On the sidewalk of John Stalling Elementary School west of the project site. |

**Source**: UltraSystems, 2023.

**Figure 4.13-2**
**AMBIENT NOISE MEASUREMENT LOCATIONS**



### 4.13.4 Regulatory Setting

**State of California**

The California Department of Health Services (DHS) Office of Noise Control has studied the correlation of noise levels with effects on various land uses[11]. The most current guidelines prepared by the state noise officer are contained in the "General Plan Guidelines" issued by the Governor's Office of Planning and Research in 2003 and reissued in 2017 (Governor's Office of Planning and Research, 2017). These guidelines establish four categories for judging the severity of noise intrusion on specified land uses:

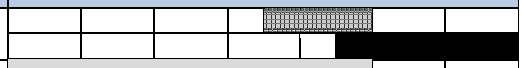
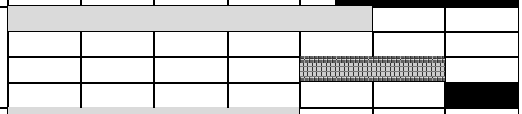
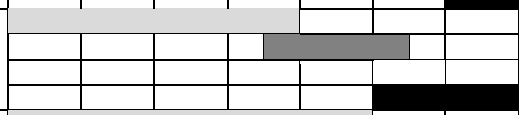
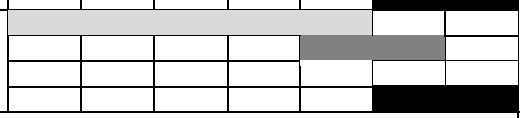
- **Normally Acceptable**: Is generally acceptable, with no mitigation necessary.
- **Conditionally Acceptable**: May require some mitigation, as established through a noise study.
- **Normally Unacceptable**: Requires substantial mitigation.
- **Clearly Unacceptable**: Probably cannot be mitigated to a less-than-significant level.

The types of land uses addressed by the state standards, and the acceptable noise categories for each, are presented in **Table 4.13-3**. There is some overlap between categories, which indicates that some judgment is required in determining the applicability of the numbers in a given situation.

**Table 4.13-3**
**CALIFORNIA LAND USE COMPATIBILITY FOR COMMUNITY NOISE SOURCES**

| Land Use Category | Noise Exposure (dBA, CNEL) | | | | | | |
|---|---|---|---|---|---|---|---|
| | 55 | 60 | 65 | 70 | 75 | 80 | |
| Residential – Low-Density Single-Family, Duplex, Mobile Homes | | | | | | | |
| Residential – Multiple Family | | | | | | | |
| Transient Lodging – Motel, Hotels | | | | | | | |
| Schools, Libraries, Churches, Hospitals, Nursing Homes | | | | | | | |
| Auditoriums, Concert Halls, Amphitheaters | | | | | | | |
| Sports Arena, Outdoor Spectator Sports | | | | | | | |
| | | | | | | | |

[11] The Office of Noise Control no longer exists.

| Land Use Category | Noise Exposure (dBA, CNEL) |
|---|---|
| Playgrounds, Neighborhood Parks |  |
| Golf Courses, Riding Stables, Water Recreation, Cemeteries |  |
| Office Buildings, Business Commercial and Professional |  |
| Industrial, Manufacturing, Utilities, Agriculture |  |

| | |
|---|---|
| | **Normally Acceptable**: Specified land use is satisfactory, based upon the assumption that any buildings involved are of normal conventional construction without any special noise insulation requirements. |
| | **Conditionally Acceptable**: New construction or development should be undertaken only after a detailed analysis of the noise reduction requirements is made and needed noise insulation features included in the design. Conventional construction, but with closed windows and fresh air supply system or air conditioning will normally suffice. |
| | **Normally Unacceptable**: New construction or development should generally be discouraged. If new construction or development does proceed, a detailed analysis of the noise reduction requirements must be made and needed noise insulation features included in the design. |
| | **Clearly Unacceptable**: New construction or development should generally not be undertaken. |

**Source**: Governor's Office of Planning and Research, 2017.

### City of Corona General Plan Noise Element

The Noise Element of the City of Corona General Plan, adopted by the city in June 2020 and amended in November 2021 and March 2023 (City of Corona, 2020a), identifies sources of noise in the city and provides objectives and policies that ensure that noise from various sources would not create an unacceptable noise environment. **Table 4.13-3** above shows that according to state standards, noise levels of 75 CNEL or below are normally acceptable for water recreation land uses such as the proposed project. As shown in **Table 4.13-4** below, the City of Corona has slightly more stringent standards for similar land uses such as a sports club, with desirable noise levels of 65 CNEL or less.

The General Plan Noise Element has the following applicable goals and associated policies for addressing noise issues in the community (City of Corona, 2020a):

***Goal N-1: Protect residents, visitors, and noise-sensitive land uses from the adverse human health and environmental impacts created by excessive noise levels from transportation sources by requiring proactive mitigation.***

Policy N-1.4 Require municipal vehicles and noise-generating mechanical equipment purchased or used by the City to comply with noise performance standards consistent with the latest available noise reduction technology to the extent practicable and cost-effective.

**Table 4.13-4**
**CITY OF CORONA NOISE LEVELS AND LAND USE COMPATIBILITY GUIDELINES**

| Land Use Category | | Community Noise Equivalent Level (CNEL) | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Categories** | **Uses** | **<55** | **60** | **65** | **70** | **75** | **80>** | |
| Residential | Single Family, Duplex | A | A | B | B | D | D | D |
| | Multiple Family | A | A | B | B | C | D | D |
| | Hotel, Motel Lodging | A | A | B | C | C | D | D |
| Commercial Regional, District | Commercial Retail, Bank, Restaurant, Movie Theatre | A | A | B | B | C | C | D |
| Commercial Regional, Village District, Special | Commercial Retail, Bank, Restaurant, Movie Theatre | A | A | A | A | B | B | C |
| Commercial Office, Institution | Office Building, R&D, Professional Offices, City Office Building | A | A | A | B | B | C | D |
| Recreation, Institutional, Civic Center | Amphitheatre, Concert Auditorium, Meeting Hall | B | B | C | C | D | D | D |
| Commercial Recreation | Amusement Park, Miniature Golf, Sports Club, Equestrian Center | A | A | A | B | B | D | D |
| Commercial, General, Special, Industrial, and Institutional | Auto Service Station, Auto Dealer, Manufacturing, Warehousing, Wholesale, Utilities | A | A | A | A | B | B | B |
| Institutional General | Hospital, Church, Library, Schools' Classroom | A | A | B | C | C | D | D |
| Open Space | Local, Community, and Regional Parks | A | A | A | B | C | D | D |
| Open Space | Golf Course, Cemetery, Nature Centers Wildlife Reserves and Habitat | A | A | A | A | B | C | C |

**Zone A:** Clearly Compatible: Specified land use is satisfactory, based on the assumption that any buildings involved are of conventional construction without any special noise insulation requirements.
**Zone B:** Normally Compatible: New construction should be undertaken only after detailed analysis of the noise reduction requirements and needed noise insulation features are determined. Conventional construction, with closed windows and fresh air supply or air conditioning, will normally suffice.
**Zone C:** Normally Incompatible: New construction or development should generally be discouraged. If new construction or development does proceed, a detailed analysis of noise reduction requirements must be made and needed noise insulation features included in the design.
**Zone D:** Clearly Incompatible: New development should generally not be undertaken.

**Source**: City of Corona General Plan, 2020a

***Goal N-2: Prevent and mitigate the adverse impacts of excessive ambient noise exposure, including vibration on residents, employees, visitors, and "noise sensitive" land uses.***

Policy N-2.1: Consider noise and vibration levels in land use planning decisions to prevent future noise and vibration and land use incompatibilities. Considerations may include, but not necessarily be limited to, standards that specify acceptable noise limits for various land uses, noise reduction features, acoustical design in new construction, and enforcement of the California Standards Building Code provisions for indoor and outdoor noise levels.

Policy N-2.2: Require that in areas where existing or future ambient noise levels exceed an exterior noise level of 65 dBA CNEL, all development of new housing, health care facilities, schools, libraries, religious facilities, and other "noise sensitive" uses shall include site design, building enhancements, buffering, and/or mitigation to reduce noise exposure to within acceptable limits.

Policy N-2.4: Require development in all areas where the existing or future ambient noise level exceeds 65 dBA CNEL to conduct an acoustical analysis and incorporate special design measures in their construction to reduce interior noise levels to the 45 dBA CNEL level.

Policy N-2.5: Encourage existing "noise sensitive uses," including schools, libraries, health care facilities, and residential uses, in areas where existing or future noise levels exceed 65 dBA CNEL to incorporate fences, walls, landscaping, and/or other noise buffers and barriers, where appropriate and feasible.

Policy N-2.7: N-2.7 Require construction activities that occur in close proximity to existing "noise sensitive" uses, including schools, libraries, health care facilities, and residential uses, to limit the hours and days of operation in accordance with the City Noise Ordinance.

To the extent that the foregoing applies to the proposed project, the project design and operational characteristics are compatible with the Noise Element's goals, objectives and policies.

**City of Corona Municipal Code**

The City of Corona's regulations with respect to noise are included in Municipal Code §§ 17.84.040 (Noise).

**City of Corona Municipal Code §§ 17.84.040**

**A. Stationary Noise Sources.** The City of Corona exterior and interior stationary noise source standards are shown in **Table 4.13-5**.

**Table 4.13-5**
**CITY OF CORONA INTERIOR AND EXTERIOR NOISE STANDARDS FOR STATIONARY SOURCES**

| Designated Noise Zone Land Use (Receptor Property) | Maximum Allowable Noise Levels | | | |
|---|---|---|---|---|
| | Exterior Noise Levels | | Interior Noise Levels | |
| | 7 a.m. – 10 p.m. | 10 p.m. – 7 a.m. | 7 a.m. – 10 p.m. | 10 p.m. – 7 a.m. |
| Single-, Double- and Multi- Family Residential | 55 dBA | 50 dBA | 45 dBA | 35 dBA |
| Other Sensitive Land Uses[12] | 55 dBA | 50 dBA | 45 dBA | 35 dBA |
| Commercial Uses | 65 dBA | 60 dBA | Not applicable | Not applicable |
| Industrial, Manufacturing or Agricultural | 75 dBA | 70 dBA | Not applicable | Not applicable |

1) Each of the noise limits specified here shall be reduced by 5 dBA for impulse or simple tone noises; provided, however, that if the ambient noise level exceeds the resulting standards, the ambient shall be the standard.

2) If the measurement location is on the boundary between two different zones, the lower noise level standard applicable to the zone shall apply.

3) If the intruding noise is continuous and cannot be reasonably discontinued or stopped for a time period whereby the ambient noise level can be determined, the measured noise level obtained while the source is in operation shall be compared directly to the allowable noise level standards as specified respective to the measurement location's designated land use and for the time of the day the noise level is measured. The reasonableness of temporarily discontinuing the noise generation by an intruding noise source shall be determined by the Code Enforcement Officer for the purpose of establishing the existing ambient noise level at the measurement location.

**B. Additional Exterior Noise Standards**. No person shall operate or cause to be operated, any source of sound at any location within the City or allow the creation of any noise on property owned, leased, occupied or otherwise controlled by a person that causes the noise level, when measured on any other property to exceed the exterior noise standards below. In the event the ambient noise level exceeds any of the first four noise limit categories, the cumulative period applicable to the category shall be increased to reflect the ambient noise level. In the event the ambient noise level exceeds the fifth noise category, the maximum allowable noise level under said category shall be increased to reflect the maximum ambient noise level.

12 "Sensitive land uses" are land uses which have associated human activities that may be subject to stress or significant interference from noise. These include single and multi-family residential, churches, hospitals and similar health care institutions, convalescent homes, libraries and school classroom areas.

1. **Standard No. 1**: the exterior noise level which shall not be exceeded for a cumulative period of more than thirty minutes in any hour. Standard No. 1 may be the applicable noise level from **Table 4.13-5**.

2. **Standard No. 2:** the exterior noise level which shall not be exceeded for a cumulative period of more than fifteen minutes in any hour. Standard No. 2 shall be the applicable noise level from **Table 4.13-5**, plus five dB.

3. **Standard No. 3:** the exterior noise level which shall not be exceeded for a cumulative period of more than five minutes in any hour. Standard No. 3 shall be the applicable noise level from **Table 4.13-5,** plus ten dB.

4. **Standard No. 4:** the exterior noise level which shall not be exceeded for a cumulative period of more than one minute in any hour. Standard No. 4 shall be the applicable noise level from **Table 4.13-5,** plus fifteen dB.

5. **Standard No. 5:** the exterior noise level which shall not be exceeded for any period of time. Standard No. 5 shall be the applicable noise level from **Table 4.13-5,** plus twenty dB.

**C. Additional Interior Noise Standards.** It shall be unlawful for any person at any location within the incorporated area of the city to create any noise or to allow the creation of any noise on property owned, leased, occupied or otherwise controlled by such a person which causes the noise level when measured within any other residential dwelling unit or sensitive land use to exceed:

1. **Standard No. 1**: the interior noise level which shall not be exceeded for a cumulative period of more than five minutes in any hour. Standard No. 1 may be the applicable noise level from **Table 4.13-5**.

2. **Standard No. 2:** the interior noise level which shall not be exceeded for a cumulative period of more than one minute in any hour. Standard No. 2 shall be the applicable noise level from **Table 4.13-5**, plus five dB.

3. **Standard No. 3:** the interior noise level, or the maximum measured ambient, which shall not be exceeded for any period of time. Standard No. 3 shall be the applicable noise level from **Table 4.13-5,** plus ten dB.

**D. Special Provisions.**

1. **Construction noise.** Construction noise is prohibited between the hours of 8:00 p.m. to 7:00 a.m., Monday through Saturday and 6:00 p.m. to 10:00 a.m. on Sundays and federal holidays. Construction noise is defined as noise which is disturbing, excessive or offensive and constitutes a nuisance involving discomfort or annoyance to persons of normal sensitivity residing in the area, which is generated by the use of any tools, machinery or equipment used in connection with construction operations.

2. **Noise Devices.** No loudspeaker, bells, gongs, buzzers, mechanical equipment or other sounds, attention-attracting or communication device associated with any use adjacent to residential or sensitive land uses shall be discernible beyond the boundary line of the parcel,

except fire protection devices, burglar alarms and church bells. Noise generated by these sources shall be enforced by the Police Department.

**E. Exceptions.** The following activities shall be exempt from these noise standards:

1. Special events pursuant to an approved special use permit. Noise impacts shall be evaluated and conditioned as part of the special use permit.

2. Activities conducted on public parks, public playgrounds and public or private school grounds, including school athletic and entertainment events that are conducted under the sanction of the school or which a license or permit has been duly issued pursuant to any provision of city code.

3. Noise sources associated with the maintenance of real property, provided the activities take place between the hours of 7:00 a.m. to 8:00 p.m. on any day except Sunday or between the hours of 9:00 a.m. to 8:00 p.m. on Sunday.

4. Any activity to the extent regulation thereof has been preempted by state or federal law.

5. Repairs to and replacement of mechanical equipment in residential zones installed by permit prior to May 20, 1993 shall be exempt from the requirements in division (D) of this section.

6. Noise variances granted pursuant to subsection (H)(1) below.

7. Short-term, non-continuous operations associated with government and public utility facilities that are necessary to maintain the delivery of services for the benefit of public health and safety.

**F. Noise level measurements.** All noise shall be measured in accordance with the following standards. Measurements shall be taken of the ambient noise level and any alleged offensive noise. If the measurement location is on the boundary of two different noise zones, the lower noise level standard shall apply.

1. **Sound level meter.** A sound level meter shall mean an instrument meeting the American National Standards Institute's S1.4 - 1971 for Type 1 sound level meters or an instrument and the associated recording and analyzing equipment which will provide equivalent data.

2. **Ambient noise.** A measurement of the ambient noise level shall be taken according to the procedures in this chapter. If the ambient noise level exceeds the standard, the ambient level shall be the standard. If an alleged intruding noise source is continuous and cannot be reasonably discontinued or stopped for a time period whereby the ambient noise level can be determined, the measured noise level obtained while the alleged intruding noise source is in operation shall be compared directly to the applicable noise level standard.

**G. Noise studies required.** As referenced in division (A) of this section, there are essentially two different types of noise sources that have been identified in Corona and each has its own noise metrics as well as its own required noise studies. The noise metrics used for transportation related noise sources is the CNEL which is a 24-hour time weighted average noise level. The noise metrics used for stationary sources are defined as noise levels that cannot be exceeded for certain percentages of time.

1. **Predevelopment noise studies**. A predevelopment noise study is performed prior to development and is designed to project future noise levels and recommend mitigation measures to be implemented in project development. All noise studies shall be prepared by a registered noise engineer as approved by the city. Noise studies will be required for the construction of master planned roadways, for development adjacent to master planned roadways, when a noise generating use, such as a factory, is proposed in proximity to residential uses and when residential uses are proposed in proximity to an existing noise source. The need for a noise study will be determined at development plan review. Predevelopment noise studies shall project future noise levels based on proposed uses, traffic volumes and other relevant future conditions. Existing and projected noise shall be evaluated pursuant to the noise standards within this chapter and the noise element of the General Plan. Mitigation measures shall be proposed to bring noise levels into compliance with these standards. Mitigation measures may consist of walls, berms, setbacks, landscaping, building materials, construction methods and any other means whereby noise can be reduced to the maximum amounts within this chapter.

2. **Studies of existing stationary noise.** At times it will be necessary to study the noise generated by an existing source, either due to alleged violations of the noise ordinance or for monitoring purposes. These noise studies shall be prepared by a registered noise engineer as approved by the city in accordance with the standards in **Table 4.13-5.**

**H. Noise variance.**

1. The owner or operator of a noise or vibration source which violates any of the provisions of this chapter may file an application with the Community Development Department for a variance from the provisions thereof wherein said owner or operator shall set forth all actions taken to comply with the provisions, the reasons why immediate compliance cannot be achieved, a proposed method of achieving compliance and a proposed time schedule for its accomplishment. The application shall be accompanied by a fee as determined by City Council resolution. A separate application shall be filed for each noise source; provided, however, that several fixed sources on a single property may be combined into one application. An application for a variance shall remain subject to prosecution under the terms of this chapter until a variance is granted.

2. The Board of Zoning Adjustment shall evaluate all applications for variance from the requirements of this chapter and may grant the variances with respect to time for compliance, subject to such terms, conditions and requirements as it may deem reasonable to achieve maximum compliance with the provisions of this chapter. The terms, conditions and requirements may include, but shall not be limited to, limitations on noise levels and operating hours. Each such variance shall set forth in detail the approved method of achieving maximum compliance and a time schedule for its accomplishment. In its determinations, the Board shall consider the following:

   (a) The magnitude of the nuisance caused by the offensive noise
   (b) The uses of property within the area of impingement by the noise
   (c) The time factors related to study, design, financing and construction of remedial work
   (d) The economic factors related to age and useful life of the equipment
   (e) The general public interest, welfare and safety

3. Any variance granted by the Board shall be by resolution and shall be transmitted to the Code Enforcement Officer for enforcement. Any violation of the terms of the variance shall be unlawful and enforced pursuant to division (I) of this section.

**I. Enforcement.**

1. It shall be unlawful for any person at any location within the City of Corona to create any exterior noise or to allow the creation of any noise on property owned, leased, occupied or otherwise controlled by such person, which causes the noise level when measured according to this chapter to exceed the maximum allowable noise levels in **Table 4.13-5**.

2. No person shall interfere with, oppose or resist any authorized person charged with the enforcement of this chapter while such person is engaged in the performance of his or her duty.

3. Any person violating any provision of the municipal codes shall be deemed guilty of a misdemeanor.

4. The operation or maintenance of any device, instrument, vehicle or machinery in violation of any noise standard identified in this chapter is declared to be a public nuisance and may be abated pursuant to the nuisance abatement procedure in Chapter 8.32[13] of the Corona Municipal code.

5. Pursuant to § 1.08.020(A) of Corona Municipal code, each person shall be deemed guilty of a separate offense for each and every day during any portion of which any violation of any provision of this chapter is committed, continued or permitted by such person and shall be punished accordingly.

**City of Corona Municipal Code § 1.08.020**

**A.** No person shall violate any provisions or fail to comply with any of the requirements of this code. Unless a different penalty is prescribed for violation of a specific provision of this code, every act prohibited or declared unlawful and every failure to perform an act made mandatory by this code is punishable as a misdemeanor. Each person shall be deemed guilty of a separate offense for each and every day during any portion of which any violation of any provision of this code is committed, continued or permitted by such person and shall be punishable accordingly.

**B.** In addition to the penalties provided in this section, any condition caused or permitted to exist in violation of any of the provisions of this code is a public nuisance and may be, by this city, abated as such. Each day such condition continues shall be regarded as a new and separate offense.

### 4.13.5 Significance Thresholds

Two criteria were used for judging noise impacts. First, noise levels generated by the proposed project must comply with all applicable relevant federal, state, and local standards and regulations. Noise impacts on the surrounding community are limited by local noise ordinances, which are

13 City of Corona Municipal Codes, Chapter 8.32 Property Maintenance, https://codelibrary.amlegal.com/codes/corona/latest/corona_ca/0-0-0-40170#JD_Chapter8.32 .

implemented through investigations in response to nuisance complaints. It is assumed that all existing regulations for the construction and operation of the proposed project will be enforced. In addition, the proposed project should not produce noise levels that are incompatible with adjacent noise-sensitive land uses.

The second measure of impact used in this analysis is a significant increase in noise levels above existing ambient noise levels as a result of the introduction of a new noise source. An increase in noise level due to a new noise source has a potential to adversely impact people. The proposed project would have a significant noise impact if it would:

- Expose persons to or generate noise levels in excess of standards prescribed by the City of Corona Municipal Code; or
- Include construction activities within the hours prohibited by the Municipal Code, without a permit; or
- Increase short-term noise exposures at sensitive receivers during construction by 5 dBA $L_{eq}$ or more; or
- Contribute, with other local construction projects, to a significant cumulative noise impact; or
- Increase operational exposures at sensitive receivers (mainly because of an increase in traffic flow) by 5 dBA CNEL or more.

### 4.13.6 Impact Analysis

**a) Would the project result in generation of substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?**

**Less than Significant Impact with Mitigation Incorporated**

Noise impacts associated with school water sports facilities include short-term and long-term impacts. Construction activities, especially heavy equipment operation, would create noise effects on and adjacent to the construction site. Long-term noise impacts include project-generated onsite and offsite operational noise sources. Onsite (stationary) noise sources from the swimming pool and surrounding structures would include operation of mechanical equipment such as air conditioners and pool or building maintenance. Offsite noise would be attributable to project-induced traffic, which would cause an incremental increase in noise levels within and near the project vicinity.

**Construction**

Noise impacts from construction activities are a function of the noise generated by the operation of construction equipment and onroad delivery and worker commuter vehicles, the location of equipment, and the timing and duration of the noise-generating activities. For the purpose of this analysis, it was estimated that the proposed project would be built in six phases listed in **Table 4.13-6**. Construction is anticipated to run 1.25 years, from early October 2023 to December 2024.

The types and numbers of pieces of equipment to be deployed during each construction phase were determined as part of the air quality and greenhouse gas emissions analyses for this project.[14] For each equipment type, **Table 4.13-6** shows an average noise emission level (in dB at 50 feet, unless otherwise specified) and a "usage factor," which is an estimated fraction of operating time that the equipment would be producing noise at the stated level.

**Table 4.13-6**
**CONSTRUCTION EQUIPMENT CHARACTERISTICS**

| Main Phase | Equipment Type | Horse-power | No. of Pieces | Usage Factor | dBA @ 50 Feet |
|---|---|---|---|---|---|
| 1 - Demolition | Concrete/Industrial Saws | 87 | 1 | 0.20 | 90 |
| | Rubber Tired Dozers | 247 | 1 | 0.40 | 79 |
| | Tractor/Loader/Backhoes | 85 | 2 | 0.37 | 85 |
| 2 – Site Preparation | Graders | 187 | 1 | 0.41 | 85 |
| | Tractor/Loader/Backhoes | 97 | 2 | 0.37 | 85 |
| 3- Grading | Graders | 187 | 1 | 0.41 | 85 |
| | Rubber Tired Dozers | 247 | 1 | 0.40 | 79 |
| | Tractor/Loader/Backhoes | 97 | 2 | 0.37 | 85 |
| 4 – Building Construction | Cranes | 367 | 1 | 0.08 | 83 |
| | Forklift | 82 | 2 | 0.30 | 67 |
| | Tractor/Loader/Backhoes | 97 | 2 | 0.37 | 85 |
| 5 - Paving | Cement and Mortar Mixers | 10 | 4 | 0.40 | 85 |
| | Pavers | 81 | 1 | 0.50 | 77 |
| | Rollers | 36 | 1 | 0.10 | 71 |
| | Tractor/Loader/Backhoes | 97 | 2 | 0.37 | 85 |
| 6- Architectural Coating | Air Compressors | 37 | 1 | 0.48 | 81 |

Using calculation methods published by the Federal Transit Administration,[15] UltraSystems estimated the average hourly exposures at the nearest sensitive receiver for each construction phase. The receivers evaluated included single-family residences to the north, west and south of the project site, along with senior apartments and an elementary school to the southeast. (see **Figure 4.13-1**). The distances used for the calculation were measured from the receivers to the approximate center of activity of each construction phase, since that would be the average location of construction equipment most of the time.

**Table 4.13-7** summarizes the estimated construction-related short-term noise exposures at the nearest sensitive receiver for each construction phase. In four out of the six cases intervening buildings are between a noise source and a receiver, and in one other case there is a 5.5-foot-high wall. The calculated noise attenuation by intervening buildings in the four cases would provide 3.5

14 See **Section 4.3** and **Section 4.8**.
15 Transit Noise and Vibration Impact Assessment Manual. Federal Transit Administration, Office of Planning and Environment, Washington, DC, FTA Report No. 0123. September 2018. Internet: https://www.transit.dot.gov/sites/fta.dot.gov/files/docs/research-innovation/118131/transit-noise-and-vibration-impact-assessment-manual-fta-report-no-0123_0.pdf.

to 9.5 dBA of attenuation for single-family residences, and 3.5 dBA of attenuation for the elementary school. The calculated noise attenuation by the existing 5.5-foot-high wall would provide 5 dBA of attenuation for the single-family receivers during construction. Residential noise exposures due to construction activities would be about 55 to 74 dBA $L_{eq}$. These relatively high values are due mainly to the fact that the sensitive receivers are immediately adjacent to the project site, and some of the construction activities would be near the project boundary.

**Table 4.13-7**
**ESTIMATED ONE-HOUR CONSTRUCTION NOISE EXPOSURES AT NEAREST OFFSITE SENSITIVE RECEIVERS**

| Phase | Receiver[a] | Distance (feet) | Ambient (dBA $L_{eq}$) | Construction (dBA $L_{eq}$)[b] | New Total (dBA $L_{eq}$) | Increase (dBA $L_{eq}$) |
|---|---|---|---|---|---|---|
| Demolition | SF | 269 | 53.3 | 72.1 | 72.2 | **18.9** |
| Site Preparation | SF | 269 | 53.3 | 69.3 | 69.4 | **16.1** |
| Grading | SF | 269 | 53.3 | 69.8 | 69.9 | **16.6** |
| Building Construction | SF | 269 | 53.3 | 69.4 | 69.5 | **16.2** |
| Paving | SF | 269 | 53.3 | 73.5 | 73.5 | **20.2** |
| Architectural Coating | SF | 269 | 53.3 | 63.2 | 63.6 | **10.3** |

[a] Sensitive receiver type.
[b] Construction-generated noise.

**Table 4.13-8** summarizes the onsite noise exposure levels of several classroom buildings on the Centennial High School campus and lists which construction phases exceed the 55 dBA limit, along with the estimated construction noise levels corresponding to those phases. The exposure values were adjusted for shielding by school buildings between the construction area and the classrooms, according to Caltrans guidance (ICF Jones and Stokes, 2009, p. 2-35), Receiver buildings A, B, and D exceed the 55 dBA limit during all construction phases, while receiver buildings E and F exceed the 55 dBA limit during all construction phases except for architectural coating. Receiver building C exceeds the 55 dBA limit during the demolition, grading, and paving phases and receiver building G exceeds the 55 dBA limit during the demolition and paving phases. As a result, mitigation will have to be implemented during the exceeding construction phases.

**Table 4.13-8**
**ONSITE SCHOOL EXPOSURES (WITHOUT MITIGATION)**

| Classroom Building | Classroom Number | Construction Phases with ≥ 55 dBA | Construction Phase Noise Levels (dBA $L_{eq}$)[a] |
|---|---|---|---|
| A | 820-831 Up, 811-820 Down | All Phases | Demolition: 67.5<br>Site Preparation: 64.8<br>Grading: 65.4<br>Building Construction: 65.0<br>Paving: 69.0<br>Architectural Coating: 59.3 |
| B | 304, 305, 307, 308 | All Phases | Demolition: 65.5<br>Site Preparation: 62.9<br>Grading: 63.4<br>Building Construction: 62.9<br>Paving: 66.8<br>Architectural Coating: 57.7 |
| C | 405, 406 | Demolition<br>Site Preparation<br>Grading<br>Building Construction<br>Paving | Demolition: 57.5<br>Site Preparation: 55.7<br>Grading: 56.0<br>Building Construction: 55.7<br>Paving: 58.6 |
| D | 419-425 | All Phases | Demolition: 61.6<br>Site Preparation: 59.3<br>Grading: 59.7<br>Building Construction: 59.3<br>Paving: 62.9<br>Architectural Coating: 55.1 |
| E | 408-410 | Demolition<br>Site Preparation<br>Grading<br>Building Construction<br>Paving | Demolition: 61.1<br>Site Preparation: 58.9<br>Grading: 59.3<br>Building Construction: 58.9<br>Paving: 62.5 |
| F | 207-212 | Demolition<br>Site Preparation<br>Grading<br>Building Construction<br>Paving | Demolition: 60.4<br>Site Preparation: 58.2<br>Grading: 58.6<br>Building Construction: 58.3<br>Paving: 61.8 |
| G | 118-121 | Demolition<br>Paving | Demolition: 55.8<br>Paving: 56.7 |

[a] Construction-generated noise. Attenuation from school buildings between the construction noise sources and the classroom buildings was taken into account.

During the all of the construction phases, short-term exposures of some nearby residents would exceed limits prescribed in the Municipal Code, and the increase in noise exposures at sensitive receivers would exceed 5 dBA. During most of the construction phases, short-term exposures of onsite receivers would exceed the limits prescribed in the Municipal Code as well. However, Construction noises would be less than significant after implementation of mitigation measures **N-1**, **N-2**, **N-3 and (only if warranted) N-4** below.

**Mitigation Measures**

**MM N-1** Project applicants shall require by contract specifications that the following construction best management practices (BMPs) be implemented by contractors to reduce construction noise levels:

- Ensure that construction equipment is properly muffled according to industry standards and in good working condition.
- Place noise-generating construction equipment and locate construction staging areas away from sensitive uses, where feasible.
- Schedule high noise-producing activities between the hours of 7:00 AM and 7:00 PM to minimize disruption on sensitive uses.
- Implement noise attenuation measures to the extent feasible, which may include, but are not limited to, temporary noise barriers or noise blankets around stationary construction noise sources.
- Use electric air compressors and similar power tools rather than diesel equipment, where feasible.
- Construction-related equipment, including heavy-duty equipment, motor vehicles, and portable equipment, shall be turned off when not in use for more than 30 minutes.
- Construction hours, allowable workdays, and the phone number of the job superintendent shall be clearly posted at all construction entrances to allow for surrounding owners and residents to contact the job superintendent. If the City or the job superintendent receives a complaint, the superintendent shall investigate, take appropriate corrective action, and report the action taken to the reporting party. Contract specifications shall be included in the proposed project construction documents, which shall be reviewed by the City prior to issuance of a grading permit.

**MM N-2** Project applicants shall require by contract specifications that heavily loaded trucks used during construction be routed away from residential streets to the extent feasible. Contract specifications shall be included in the proposed project construction documents, which shall be reviewed by the City prior to issuance of a grading permit.

**MM N-3** The District will select one classroom from rooms 811-820 for noise exposure monitoring on days when construction takes place. The north side of the classroom shall have windows, which must be closed during noise monitoring. One sound level meter meeting the requirements of City of Corona Municipal Code §17.84.040(F)(1) shall be placed on a tripod so that the microphone is four feet above the floor and at least five feet from any vertical surface. Noise should be measured at the "slow" rate. Each classroom use session shall be considered as one event. The meter shall start recording at the beginning of an event and stop recording at the end of an event. After the last event of the school day, the results of each recording session shall be

downloaded from the measurement device and archived. The $L_{eq}$ and $L_{90}$ values for all events of the day shall be entered into a spreadsheet. If, after five consecutive occupied classroom days, the majority of the events measured have an $L_{90}$ exceeding 45 dBA, then **MM N-4** shall be implemented.

**MM N-4** **If and only if conditions enumerated in MM N-3 are present, then this mitigation measure shall be implemented.** Construct and deploy throughout all the construction phases analyzed in this section, and during hours of classroom instruction, a 220-foot-long temporary noise barrier on the north side of the paved area immediately south of the pool complex construction area. The barrier must be at least 13.5 feet high, except during paving, in which it must be at least 15.5 feet high. Alternative physical forms of this barrier may include:

- A **noise barrier wall** of AC plywood, lined on the construction side with glass fiber or mineral wool noise-absorbing material at least two inches thick, supported by wire mesh or perforated sheets that have at least 30 percent open area and provide for water drainage. Instead of using this configuration, the contractor may substitute a pre-assembled noise barrier wall having a rating of STC-25 or greater, based on certified sound transmission loss data obtained according to ASTM[16] E90 and a noise reduction coefficient (NRC) rating of NRC-0.70 or greater, based on certified sound absorption coefficient data taken according to ASM C423.

- A **moveable noise barrier** that has the same construction as the aforementioned noise barrier wall, but comes in sections that can be assembled or disassembled as needed. Barrier units may be joined flush or by overlapping, with no gaps between sections or between any section and the ground. The moveable noise barrier shall have the same sound attenuation ratings as the noise barrier wall.

- A **noise curtain** with the same sound attenuation ratings as the noise barrier wall.

**Level of Significance After Mitigation**

With implementation of Mitigation Measures **N-1**, **N-2, N-3 and (only if warranted) MM N-4** above, project construction would result in less than significant impacts to sensitive receivers. **Table 4.13-9** shows on-campus exposures after mitigation.

[16] ASTM International, formerly known as American Society of Testing and Materials.

**Table 4.13-9**
**ONSITE SCHOOL EXPOSURES (WITH MITIGATION)**

| Classroom Building | Classroom Number | Construction Phase Noise Levels (dBA $L_{eq}$)[a] |
|---|---|---|
| A | 820-831 Up, 811-820 Down | Demolition: 54.9<br>Site Preparation: 53.7<br>Grading: 53.9<br>Building Construction: 53.8<br>Paving: 54.9<br>Architectural Coating: 52.3 |
| B | 304, 305, 307, 308 | Demolition: 54.4<br>Site Preparation: 53.3<br>Grading: 53.5<br>Building Construction: 53.4<br>Paving: 55.1<br>Architectural Coating: 52.2 |
| C | 405, 406 | Demolition: 52.2<br>Site Preparation: 52.0<br>Grading: 52.0<br>Building Construction: 52.0<br>Paving: 52.3<br>Architectural Coating: 51.8 |
| D | 419-425 | Demolition: 53.4<br>Site Preparation: 52.7<br>Grading: 52.8<br>Building Construction: 52.8<br>Paving: 53.9<br>Architectural Coating: 52.0 |
| E | 408-410 | Demolition: 52.9<br>Site Preparation: 52.4<br>Grading: 52.5<br>Building Construction: 52.5<br>Paving: 53.3<br>Architectural Coating: 52.0 |
| F | 207-212 | Demolition: 52.8<br>Site Preparation: 52.3<br>Grading: 52.4<br>Building Construction: 52.3<br>Paving: 53.1<br>Architectural Coating: 51.9 |
| G | 118-121 | Demolition: 52.0<br>Site Preparation: 51.9<br>Grading: 51.9<br>Building Construction: 51.9<br>Paving: 52.1<br>Architectural Coating: 51.8 |

**Operational Noise**

**Onsite**

Onsite noise sources from the proposed pool renovation project would include operation of mechanical equipment such as air conditioners, lawnmowers, leaf blowers, and building maintenance equipment; and motor vehicles accessing, driving on, and exiting the parking lot. Noise levels associated with operation of the project are expected to be comparable to those of nearby residential areas. Since this is a pool replacement project, frequency of use, number of attendees, and additional sounds associated with water recreation are not expected to change. Therefore, noise from onsite sources would be less than significant.

**Mobile Sources**

The pool replacement project will not increase student enrollment or faculty size, nor will the number of swimming events change greatly, so the traffic will not increase. Therefore, there will be no significant increase in noise from mobile sources.

**b) Would the project result in generation of excessive groundborne vibration or groundborne noise levels?**

**Less than Significant Impact**

Vibration is sound radiated through the ground. Vibration can result from a source (e.g., subway operations, vehicles, machinery, equipment, etc.) causing the adjacent ground to move, thereby creating vibration waves that propagate through the soil to the foundations of nearby buildings. This effect is referred to as groundborne vibration. The peak particle velocity (PPV) or the RMS velocity is usually used to describe vibration levels. PPV is defined as the maximum instantaneous peak of the vibration level, while RMS is defined as the square root of the average of the squared amplitude of the level. PPV is typically used for evaluating potential building damage, while RMS velocity in dB is typically more suitable for evaluating human response.

The background vibration velocity level in residential areas is usually around 50 vibration decibels (VdB). The vibration velocity level threshold of perception for humans is approximately 65 VdB. A vibration velocity level of 75 VdB is the approximate dividing line between barely perceptible and distinctly perceptible levels for most people. Most perceptible indoor vibration is caused by sources within buildings such as operation of mechanical equipment, movement of people, or the slamming of doors. Typical outdoor sources of perceptible groundborne vibration are construction equipment, steel-wheeled trains, and traffic on rough roads. If a roadway is smooth, the groundborne vibration from traffic is rarely perceptible. The range of interest is from approximately 50 VdB to 100 VdB, which is the general threshold where minor damage can occur in fragile buildings.

**Construction Vibration**

Construction activities for the project have the potential to generate low levels of groundborne vibration. The operation of construction equipment generates vibrations that propagate though the ground and diminish in intensity with distance from the source. Vibration impacts can range from no perceptible effects at the lowest vibration levels, to low rumbling sounds and perceptible vibration at moderate levels, to slight damage of buildings at the highest levels. The construction activities

associated with the project could have an adverse impact on both sensitive structures (i.e., building damage) and populations (i.e., annoyance).

Pile drivers or other major vibration sources will not be used for construction of the Centennial High School Aquatic Center project. The question is whether the equipment that will be deployed will have significant vibration impacts. The FTA (2018) has published standard vibration levels for construction equipment operations, at a distance of 25 feet. The construction-related vibration levels for the nearest sensitive receivers for major construction phases are shown in **Table 4.13-10** These calculations were based on the distances from the construction activity to the closest sensitive receivers.

**Table 4.13-10**
**VIBRATION LEVELS OF TYPICAL CONSTRUCTION EQUIPMENT**

| Equipment | PPV at 25 feet (in/sec) | Vibration Decibels at 25 feet (VdB) | PPV at 44 feet (in/sec) | Vibration Decibels at 44 feet (VdB) | PPV at 63 feet (in/sec) | Vibration Decibels at 63 feet (VdB) |
|---|---|---|---|---|---|---|
| Loaded trucks | 0.076 | 86 | | | 0.028 | 74 |
| Small bulldozer | 0.003 | 58 | 0.0016 | 50.9 | | |
| Large bulldozer | 0.089 | 87 | 0.048 | 79.9 | | |

**Sources**: Data at 25 feet from (FTA, 2006, p. 12-12); calculations by UltraSystems.

As shown in **Table 4.13-10**, the PPV of construction equipment at the nearest sensitive receiver (44 feet) is at most 0.048 inch per second, which is less than the FTA damage threshold of 0.12 inch per second PPV for fragile historic buildings. The maximum VdB is 79.9 VdB, which is below the FTA threshold for human annoyance of 80 VdB. Note that large bulldozers are not planned to be used in work in the area near the closest sensitive vibration receivers, and no heavier equipment is planned for that area. Vibration impacts would therefore be less than significant and no mitigation is necessary.

**Operational Vibration**

The project involves the operation of a swimming pool and structures such as locker rooms and a concession stand. They would not involve the use of stationary equipment that would result in high vibration levels, which are more typical for large manufacturing and industrial projects. Groundborne vibrations at the project site and immediate vicinity currently result from heavy-duty vehicular travel (e.g., refuse trucks and transit buses) on the nearby local roadways, and the project would not result in a substantive increase of these heavy-duty vehicles on the public roadways. Therefore, vibration impacts associated with operation of the project would be less than significant.

**h) For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or**

**public use airport, would the project expose people residing or working in the project area to excessive noise levels?**

**No Impact**

The closest active public airport is the Corona Municipal Airport, located approximately 3.9 miles northwest of the project site (Google Earth Pro, 2022). The project site is located outside of the airport's influence area boundary and noise contours (City of Corona, 2019c). Therefore, no impact related to the exposure of people residing or working in the proposed project area to excessive airport-related noise levels is anticipated.

## 4.14 Population and Housing

| Would the project: | Potentially Significant Impact | Less than Significant Impact with Mitigation Incorporated | Less than Significant Impact | No Impact |
|---|---|---|---|---|
| a) Induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)? | | | X | |
| b) Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere? | | | | X |

### a) Would the project induce substantial unplanned growth in an area either directly (for example, by proposing new homes and business) or indirectly (for example, through extension of roads or other infrastructure)?

**Less than Significant Impact**

Existing and forecasted demographic data for the City of Corona for 2016 and 2045 are shown below in **Table 4.14-1**. The population in the city is forecast to increase approximately 11 percent and the number of households 11 percent, and employment is forecast to increase 15 percent during that period (SCAG, 2020).

The proposed project would not induce direct population growth, as it only involves improvement and modernization of the existing pool facility at Centennial High School. The proposed improvements are also not anticipated to motivate people to move in to the project region. As the project consists of replacement of some existing facilities at the school, it is not expected to generate operational employment.

**Table 4.14-1**
**CITY OF CORONA DEMOGRAPHIC FORECAST**

| | 2016 | 2045 | Difference (2016 – 2045) | Percent Difference (2016 – 2045) |
|---|---|---|---|---|
| Population | 165,800 | 185,100 | 19,300 | 11.0 % |
| Households | 46,900 | 52,400 | 5,500 | 11.0 % |
| Employment | 79,200 | 92,800 | 13,600 | 15.8 % |

**Sources**: SCAG, 2020

Project construction would generate a small number of temporary construction jobs. The unemployment rate in Riverside County in May 2023 was 4.4% (EDD, 2023). It is expected that construction employment would be absorbed from the regional labor force and would not attract new workers into the region The project would not develop any housing, however, the proposed

increase in housing would be within regional growth forecast for the city; therefore, impacts would be less than significant.

**b) Would the project displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?**

**No Impact**

No housing exists onsite and no one currently resides on the project site. Therefore, the project would not displace any housing or people and the project would not necessitate the construction of replacement housing. No impact would occur.

## 4.15 Public Services

| Would the project: | Potentially Significant Impact | Less than Significant Impact with Mitigation Incorporated | Less than Significant Impact | No Impact |
|---|---|---|---|---|
| Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, the need for new or physically altered governmental facilities, construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services: | | | | |
| a) Fire protection? | | | | **X** |
| b) Police protection? | | | | **X** |
| c) Schools? | | | | **X** |
| d) Parks? | | | | **X** |
| e) Other public facilities? | | | **X** | |

### a) Fire protection?

**No Impact**

Corona Fire Department (CFD) is made up of two Divisions: Administrative and Operations. The Fire Department Administration Division consists of the Fire Chief, Deputy Fire Chief, Public Safety Administrative Supervisor, Executive Assistant, and clerical support staff. This division provides developmental oversight and planning, sets direction and policy, controls and evaluates the department, and provides direction and oversight for all personnel matters. The Fire Department Operations Division provides a full-service emergency response force. This includes the protection of life and property from the destructive forces of fire and the protection of life, environment, and property from hazardous materials releases. It also provides advanced and basic life support in medical emergencies, participates in search and rescue operations, responds to catastrophic events, and provides other life-saving measures as needed (City of Corona, 2023a).

The CFD is made up of 104 firefighters, 10 fire prevention staff, one emergency management staff, four professional staff, and eight fire cadets and volunteers (City of Corona, 2022a). The CFD operates the Fire Department Headquarters and seven fire stations throughout the City. The nearest existing fire station to the project site is Fire Station #1 at 540 Magnolia Avenue, approximately 1.5 miles to the west, and is equipped with a paramedic engine company, water tender, and reserve engine with multiple personnel (City of Corona, 2023a). The average response time to the project site is estimated to be approximately four minutes including travel time and turn-out time. Response times to the project site will not be impacted and the project does not require the construction or modification of fire protection facilities. Therefore, there would be no impact on fire protective services, and no mitigation is required.

**Police protection?**

**No Impact**

The Corona Police Department (CPD) is located at 730 Public Safety Way, approximately three miles to the northwest of the project site. The CPD is comprised of three divisions: Field Services, Investigative Services, and Support Services. The majority of the police department's staffing is dedicated to patrol operations. Many of the special assignment teams, such as the Homeless Outreach and Psychological Evaluation Team (HOPE), Canine, FLEX, Special Response Team, and Mobile Field Force work within the Field Services Division. Support Services include the Records Bureau, Dispatch, and Animal Services and Enforcement. Investigative Services consist of the Detective Bureau, Traffic Bureau, School Resource Officers, and the Youth Services Team (Corona, 2023b).

The CPD is made up of 164 sworn police officers, 85 full-time professional staff, 36 part-time staff, and 40 volunteers (City of Corona, 2022b). The CPD's target response time is five minutes; 90% of the response times were 4:47 or less for 2022 (City of Corona, 2022b). Response times to the project site will not be impacted and the project does not require the construction or modification of police protection facilities. Therefore, there would be no impact on police protective services, and no mitigation is required.

**b) Schools?**

**No Impact**

The project site is within and is part of, a high school campus of the Corona-Norco Unified School District (CNUSD). CNUSD consists of thirty-one elementary schools, eight intermediate/middle schools, five comprehensive high schools, a middle college high school, and three alternative schools. The District serves over 53,000 students in the diverse communities of Corona, Norco, Eastvale, and Temescal Valley. CNUSD is the largest school district in Riverside County and the ninth-largest district in California (CNUSD, 2023).

The project site is part of the Centennial High School campus. The proposed project serves to allow for the improvement and modernization of the existing pool facility. The project is not expected to generate any additional students. Project development would have a slightly favorable impact on athletic facilities at Centennial High School. No adverse impact would occur and no mitigation is required.

**c) Parks?**

**No Impact**

The City of Corona has 40 parks totaling more than 394 acres, with sports fields, basketball courts, playgrounds, tennis courts, two skateparks, and an outdoor pool. Project development is not expected to add residents to the city and not increase the City's population.[17] The current ratio is 2.2 acres of park per 1,000 residents and does not include private parks or school district property (City of Corona, 2021, p. 11) The ratio of parkland to population after project development would remain the same as the current ratio. The project proposes the improvement and modernization of the

[17] See **Section 4.14**, *Population and Housing*, for further discussion of project population impacts.

existing pool facility for students and faculty of Centennial High School. Therefore, there would be no impact on park facilities, and no mitigation is required.

**d) Other Public Facilities?**

**No Impact**

**Library**

The Corona Public Library (CPL) is at is at 650 South Main Street, approximately 2.3 miles northwest of the project site; CPL has a collection of approximately 159,053 items and circulates 338,975 items per year serving a population of 164,659 (Libraries, 2023). Project development would not increase the number of residents and subsequently not increase the use of and demands for services provided by the CPL. Therefore, there would be no impact on public library facilities, and no mitigation is required.

**Hospitals**

The nearest hospital to the project site is Corona Regional Medical Center, comprised of a 160-bed acute care hospital and a 78-bed rehabilitation campus. It is located at 800 S. Main Street, approximately 2.1 miles northwest. Project development is not predicted to add residents to the City. Project development would not require the construction of new or expanded hospitals. Impacts would be less than significant.

## 4.16 Recreation

| Would the project: | Potentially Significant Impact | Less than Significant Impact with Mitigation Incorporated | Less than Significant Impact | No Impact |
|---|---|---|---|---|
| a) Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated? | | | X | |
| b) Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment? | | | | X |

### a) Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?

**Less than Significant Impact**

Recreational services in the City of Corona are provided by the City's Community Services Department, which has 35 public parks with sports fields, basketball courts, playgrounds, tennis courts, two skateparks and an outdoor pool (City of Corona General Plan, 2020). The City's Park acreage standard is at least three acres of public park land per 1,000 residents. The city currently has approximately 352 acres total in parks and land for public use, enough to meet this performance standard (City of Corona General Plan, 2020). Existing parks within four miles of the project site are:

- **Border Park** at 2400 Border Avenue, which spans 2.3 acres; facilities include volleyball courts, pickleball courts, picnic area, playground, and restrooms.
- **Citrus Park,** 1250 Santana Way, 1.2 miles to the south; encompasses 20 acres; facilities include baseball fields, picnic area, soccer fields, playground, splash pad, and restrooms.
- **Lincoln Park,** 1810 S. Lincoln Avenue, 3.6 miles to the northwest; spans 5.4 acres; facilities include jogging course, picnic area, playground, and restrooms.

Demand for parks is generated by the population in the parks' service areas; no additional population would be added to the area as the result of the Project. Therefore, project development would not generate demand for park facilities. The proposed aquatics center replacement would enhance the existing pool facility and various athletic facilities. Project impacts on parkland and park facilities would be less than significant.

**b) Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?**

**No Impact**

No proposed new or expanded recreational facilities would have potential adverse effects on the environment. No impacts would occur.

## 4.17 Transportation

| Would the project: | Potentially Significant Impact | Less than Significant Impact with Mitigation Incorporated | Less than Significant Impact | No Impact |
|---|---|---|---|---|
| a) Conflict with a program plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities? | | | **X** | |
| b) Would the project conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b)? | | | **X** | |
| c) Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)? | | | **X** | |
| d) Result in inadequate emergency access? | | | **X** | |

The following analysis is based on the Vehicle Miles Traveled (VMT) Screening Analysis for the proposed Centennial High School Aquatics Center project conducted by RK Engineering Group, dated May 1, 2023. (refer to **Appendix I**)

### a) Would the project conflict with a program plan, ordinance or policy addressing circulation system, including transit, roadway, bicycle and pedestrian facilities?

**Less than Significant Impact**

The project consists of replacing and upgrading the existing pool and aquatics facility at Centennial High School, part of the Corona-Norco Unified School District, located at 1820 Rimpau Avenue in the City of Corona. The usage of the new aquatics center is anticipated to remain relatively the same as the existing facility. The project is not expected to result in a significant increase in average daily traffic or vehicle miles traveled (RK Engineering, 2023).

The Technical Advisory on Evaluating Transportation Impacts In California Environmental Quality Act (CEQA), dated December 2018, prepared by the State of California Governor's Office of Planning and Research (OPR), was used to assess the project impacts. The OPR Technical Advisory indicates that projects generating less than 110 daily vehicle trips may be presumed to have a less than significant impact absent substantial evidence to the contrary. Since the operations of the new aquatics center are anticipated to generally remain the same after the remodel, the project is not expected to generate more than 110 net daily trips.

**Applicable Plans, Ordinances, and Policies**

**Statewide Transportation Improvement Program (STIP)**

The Statewide Transportation Improvement Program (STIP) is a multi-year capital improvement program of transportation projects on and off the State Highway System, funded with revenues from the State Highway Account and other funding sources. The proposed project development is not a transportation project and would not conflict with the STIP.

**Riverside County Congestion Management Program**

The Riverside County Congestion Management Program (CMP) is included as Chapter IX of the Riverside County Long Range Transportation Study issued by the Riverside County Transportation Commission (RCTC) in 2019. The Congestion Management Program Roadway System includes all state highways in Riverside County; routes defined as Principal Arterials by Caltrans; and facilities linking cities/communities (interregional facilities), and major activity centers (shopping malls, major industrial/business parks, stadiums, etc. (RCTC, 2019). The project would not conflict with the Riverside County Congestion Management Plan.

**Caltrans Active Transportation Plan 2022 District 8 (ATP)**

The Caltrans District 8 Active Transportation Plan (ATP) identifies pedestrian and bicycle needs on and across the State Highway System and prioritizes highway segments and crossings to inform future investments. The Plan's main outputs are lists and maps of location-based needs, prioritized highway segments, and prioritized highway crossings. The Caltrans Active Transportation Plan 2022 District 8 ATP is used to implement infrastructure improvements for better connectivity throughout the region by providing safe and comfortable walking and bicycling linkages. The proposed project would not create or conflict with walking or bicycling linkages, and therefore the proposed project would not conflict with ATP. The project would not conflict with the Caltrans District 8 Active Transportation Plan.

The proposed project would not conflict with a program plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities, and would have a less than significant effect in this regard.

**b) Would the project conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b)**

**Less than Significant Impact**

CEQA Guidelines section 15064.3(b) pertains to the use of Vehicle Miles Traveled (VMT) as a method of determining the significance of transportation impacts. The City of Corona has provided a memorandum Draft City of Corona CEQA Assessment – VMT Analysis Guidelines, dated January 11, 2019, prepared by Fehr & Peers, to provide recommendations in the form of thresholds of significance and methodology for identifying VMT-related impacts. The memorandum identifies screening thresholds that may quickly identify whether or not a project should be expected to have a less than significant impact without conducting a detailed project-level assessment. For Land use projects, projects may screen out using one of the following screening types:

- Transit Priority Area (TPA) Screening

- Low VMT Area Screening
- Project Type Screening

Although not explicitly stated in the City's VMT Guidelines, small projects that generate fewer than 110 daily trips can be presumed to have a less than significant impact absent substantial evidence to the contrary, as detailed in the Technical Advisory on Evaluating Transportation Impacts in CEQA, dated December 2018, prepared by OPR.

Since the typical daily operations of the new aquatics center are anticipated to generally remain the same after the remodel, the project is not expected to generate more than 110 new daily trips. It should be noted that although the aquatics facility would be utilized to host local and regional swim meets, these conditions would be considered special events and would therefore not impact the number of average daily trips (RK Engineering, 2023, p. 2). Since the project is expected to generate fewer than 110 new trips per day, the project may be presumed to have a less than significant VMT impact under CEQA.

**c) Would the project substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?**

**Less than Significant Impact**

Centennial High School is bounded on the east by Rimpau Avenue, a four-lane roadway with sidewalks on both sides of the roadway. The school is bounded on the west by Fullerton Avenue, a four-lane roadway with sidewalks on both sides of the roadway and a Class II (striped and signed) bike lane on the east northbound) side of the roadway. A three-lane school driveway forms the north campus boundary and is the access route to the project site. The intersection of Rimpau Avenue with the aforementioned driveway is signalized. The Riverside Transit Agency (RTA) provides bus transit service in western Riverside County. The nearest RTA route to the project site is Route 1 on Magnolia Avenue approximately 0.3 mile to the northwest.

The proposed project would not alter the surrounding roadways. Vehicular access to the project would not be altered and would not cause hazards due to a geometric design feature proposed by the project. The project's circulation system, including driveways and parking areas, would be designed to meet the District's standards and would not result in uses or design features that would create traffic hazards. Therefore, impacts regarding increases in hazards due to geometric design features or incompatible uses would be less than significant.

**d) Would the project result in inadequate emergency access?**

**Less than Significant Impacts**

**Construction**

Project construction could involve the temporary closure of a segment of a lane on a local roadway or an entire segment of the roadway. Any plans for construction activity in the roadway right-of-way would require an encroachment permit from the City of Corona. The City of Corona would review any encroachment permit applications to ensure that such construction did not impede emergency response to the project site or nearby properties, and did not create traffic hazards. Compliance with any conditions outlined in an encroachment permit is mandatory for the permit approval. Impacts

would be less than significant after City review and after project conformance with conditions outlined in an approved encroachment permit.

**Operation**

The proposed project would be designed, approved and constructed in accordance with the requirements of the Division of the State Architect (DSA) and the 2022 California Building Code (CBC) for the construction of public-school buildings DSA review of site plans and building plans for public school construction projects includes firefighting equipment access. The site design includes access and fire lanes that would accommodate emergency ingress and egress by fire trucks, police units, and ambulance/paramedic vehicles. Onsite access would comply with all applicable design requirements. The review process and compliance with applicable regulations and standards would ensure that adequate emergency access would be provided. Therefore, the project would not result in inadequate emergency access and there would be less than significant impacts.

## 4.18 Tribal Cultural Resources

| Would the project: | Potentially Significant Impact | Less than Significant Impact with Mitigation Incorporated | Less than Significant Impact | No Impact |
|---|---|---|---|---|
| a) Cause a substantial adverse change in the significance of a tribal cultural resource that is listed or eligible for listing in the California Register of Historical Resources or in a local register of historical resources as defined in Public Resources Code § 5020.1(k)? | | | | **X** |
| b) Cause a substantial adverse change in the significance of a tribal cultural resource that is determined to be a significant resource to a California Native American tribe pursuant to the criteria set forth in subdivision (c) of Public Resource Code § 5024.1(c)? | | | | **X** |

Information from UltraSystems' Phase I Cultural Resources Inventory, dated July, 2023 for the proposed project (refer to **Appendix C**) is included in the analysis below.

**a) Would the project cause a substantial adverse change in the significance of a tribal cultural resource that is listed or eligible for listing in the California Register of Historical Resources or in a local register of historical resources as defined in Public Resources Code § 5020.1(k)?**

**No Impact**

No traditional cultural sites within a half-mile buffer of the project boundary have been documented in the Native American Heritage Commission's (NAHC) Sacred Lands File (SLF) search. No resources as defined by Public Resources Code § 21074 have been identified (refer to **Attachment C**: "Native American Heritage Commission Records Search and Native American Contacts" in **Appendix C** to this IS/MND). Additionally, the project site has not been recommended for historic designation for prehistoric and tribal cultural resources (TCRs). No specific tribal resources have been identified by local tribes responding to inquiries for the Cultural Resources Inventory.

The result of the pedestrian survey was negative for both prehistoric and historic sites and isolates (see **Section 4.3** in **Appendix D1**).

A cultural resources records search was requested from the Eastern Information Center (the local California Historical Resources Information System facility) and the results were received August 2, 2023. There are no prehistoric sites recorded within the project APE or the 0.5-muile buffer around the APE (see **Section 4.1** and **Tables 4.1-1** in **Appendix D1**).

**b) Would the project cause a substantial adverse change in the significance of a tribal cultural resource that is determined to be a significant resource to a California Native American tribe pursuant to the criteria set forth in subdivision (c) of Public Resource Code § 5024.1(c)?**

**No Impact**

Assembly Bill 52 (AB 52) requires meaningful consultation with California Native American Tribes on potential impacts on TCRs, as defined in Public Resources Code § 21074. TCRs are sites, features, places, cultural landscapes, sacred places, and objects with cultural value to a California Native American tribe that are either eligible or listed in the California Register of Historical Resources or local register of historical resources (CNRA, 2007).

As part of the AB 52 process, Native American tribes must submit a written request to the lead agency to be notified of projects within their traditionally and culturally affiliated area. The lead agency must provide written, formal notification to those tribes within 14 days of deciding to undertake a project. The tribe must respond to the lead agency within 30 days of receiving this notification if they want to engage in consultation on the project, and the lead agency must begin the consultation process within 30 days of receiving the tribe's request. Consultation concludes when either (1) the parties agree to mitigation measures to avoid a significant effect on a tribal cultural resource, or (2) a party, acting in good faith and after reasonable effort, concludes mutual agreement cannot be reached.

The Corona-Norco Unified School District (the lead agency) initiated AB 52 outreach to local tribes for the Centennial High School Aquatics Center project. The District prepared and sent letters via email on June 27, 2023 from Jacquelyn Roberts, Construction Director – Facilities Division, to the several tribes listed below for AB 52 contact, informing them of the project. The letters were sent via certified mail to the two tribes without email addresses – La Jolla Band and the Los Coyotes Band of Cahuilla and Cupeno Indians. The letters conveyed that the recipient has 30 days from the receipt of the letter to request AB 52 consultation regarding the project.

- Agua Caliente Band of Cahuilla Indians
- Augustine Band of Cahuilla Mission Indians
- Cabazon Band of Mission Indians
- Cahuilla Band of Indians
- Gabrieleno Band of Mission Indians-Kizh Nation
- Gabrieleno/Tongva San Gabriel Band of Mission Indians
- Gabrielino /Tongva Nation
- Gabrielino Tongva Indians of California Tribal Council
- Gabrielino-Tongva Tribe
- Juaneño Band of Mission Indians
- Juaneño Band of Mission Indians Acjachemen Nation
- Juaneño Band of Mission Indians Acjachemen Nation 84A
- La Jolla Band of Luiseno Indians
- Los Coyotes Band of Cahuilla and Cupeño Indians
- Morongo Band of Mission Indians
- Pala Band of Mission Indians
- Pauma Band of Luiseno Indians
- Pechanga Band of Indians
- Quechan Tribe of the Fort Yuma Reservation
- Ramona Band of Cahuilla
- Rincon Band of Luiseno Indians
- Santa Rosa Band of Cahuilla Indians
- Soboba Band of Luiseño Indians
- Torres-Martinez Desert Cahuilla Indians

On August 9, 2023, the letter was also sent by certified mail to the 18 tribes that had not yet responded. These include the Augustine Band of Cahuilla Mission Indians, Cabazon Band of Mission Indians, Cahuilla Band of Indians, Gabrieleno Band of Mission Indians-Kizh Nation, Gabrieleno/Tongva San Gabriel Band of Mission Indians, Gabrielino /Tongva Nation, Juaneño Band of Mission Indians, Juaneño Band of Mission Indians Acjachemen Nation, Juaneño Band of Mission Indians Acjachemen Nation 84A, Pala Band of Mission Indians, Pauma Band of Luiseno Indians, Pechanga Band of Indians, Ramona Band of Cahuilla, Rincon Band of Luiseno Indians, Santa Rosa Band of Cahuilla Indians, Soboba Band of Luiseño Indians, and Torres-Martinez Desert Cahuilla Indians.

The Ft. Yuma Quechan Indian Tribe responded via email on June 27, 2023. Ms. Jill McCormick, Historic Preservation Officer for the tribe, stated that the tribe does not wish to comment on this project and that they defer to the more local Tribes and support their determinations on this matter.

The District received a reply from the Agua Caliente Band of Cahuilla Indians via email on June 27, 2023. Ms. Xitlaly Madrigal, Cultural Resources Analyst for the tribe, indicated that this project is not located within the Tribe's Traditional Use Area and that they defer to the other tribes in the area.

Also on June 27, 2023, Christina Conley, on behalf of the Gabrielino Tongva Indians of California, responded via email stating that they have no comment concerning the project.

An email received August 8, 2023 from Laura Chatterton, Cultural Resource Specialist with the Morongo Band of Mission Indians stated that the project is within Cahuilla and Serrano ancestral territory and traditional use area and that the area is regarded as highly sensitive for cultural resources. Ms. Chatterton stated they will request AB 52 consultation with the Lead Agency and provided a list of items they will request at that time. These include: copies of the CHRIS records search results, tribal monitors to be present during the pedestrian survey if this had not yet been conducted, a copy of the related Phase I study, shape files of the Project APE, a geotechnical report, and the current Project design and Mass Grading Maps. The email was acknowledged by S. O'Neil on August 9, 2023 noting that the Lead Agency is the District, and the email was forwarded to the District that same day. On August 10, 2023 Ms. Roberts responded via email to Ms. Chatterton providing several of the requested documents and asking if they had any further questions.

The Rincon Band of Luiseño Indians responded via email on September 8, 2023. Shuuluk Linton, Tribal Historic Preservation Coordinator for the tribe, stated that the project boundary is within the tribe's Traditional Use Area and asked to be provided with copies of project documents, including the cultural survey, archaeological site records, shape files, archaeological record search results, geotechnical report, and the grading plans. Coordinator Linton then indicated that following their review they will determine if AB52 consultation will be needed. Ms. Roberts sent the Geotechnical report, Phase I Cultural Resources Inventory Report and project drawings to Coordinator Linton on September 11, 2023. The coordinator responded on October 6, 2023 requesting a copy of the Cultural Resources Survey Report and site records as well as providing potential dates for a consultation meeting. To date no meeting has taken place between the tribe and Ms. Roberts.

An email received August 18, 2023 from Geramy Martin, Tribal Secretary for the Augustine Band of Cahuilla Indians stated that the tribe is unaware of specific cultural resources that may be affected by the proposed project but if any cultural resources are encountered during the project the Band wished to be contacted.

The Gabrieleno Band of Mission Indians - Kizh Nation responded via email on August 22, 2023 indicating their interest in consulting on this project. A consultation phone call took place between Chairman Salas and Ms. Roberts on September 21, 2023. Further background information about the tribe was provided by the Kizh nation on the same day. After reviewing the geotechnical report, Ms. Roberts provided the depth of fill for the pool area and indicated that in past school projects the district would send the tribe a notice a couple of weeks prior to grading and soil work so if the tribe wants to send out monitors to observe the soil work they are able to do that. She further asked if that was a suitable solution for this project.

[The results of potential further consultation shall be placed in an updated IS/MND. This text will be updated once the AB 52 consultation has been concluded between the City the tribes.]

Land at the project site had remained relatively undisturbed as rural farm into the early 1980's. The Centennial High School and facilities were constructed in 1989. The project proposes grading and excavation activities for the installation of a new swimming pool and associated facilities. Grading would involve new subsurface disturbance and could result in the unanticipated discovery

No human remains have been previously identified or recorded onsite. During the archaeological pedestrian survey, it was observed that the land in the area of the current pool facilities and surrounding parking lot had been heavily graded in the past to make it level for the high school campus construction in an area of hilly topography. The cultural resources records search conducted by the EIC indicated there are no prehistoric sites recorded within the project APE or surrounding 0.5-mile buffer. Therefore, the potential for subsurface prehistoric cultural deposits is considered to be low. The high school campus, however, is in a region known to have been heavily used for habitation and natural resource gathering by the local Tongva and Luiseño tribes (see **Section 2.2.2** in **Appendix D1**) which suggests the potential for the presence of cultural material.

Grading activities associated with development of the project would involve new subsurface disturbance and could result in the unanticipated discovery of unknown human remains, including those interred outside of formal cemeteries. In the unlikely event of an unexpected discovery, implementation of mitigation measure . . .

Potential mitigation measures will be added upon the conclusion of consultation. These may include **TCR-1** [dealing with human remains] and **TCR-2** [dealing with associated funerary objects] may be recommended to ensure that impacts related to the accidental discovery of human remains would be less than significant. Other potential TCR MMs may be added by the District and/or consulting tribes as a result of the AB 52 consultation process.

**Mitigation Measures**

**MM TCR-1:** [To Be Determined.] Mitigation measure TCR 1 is yet to be determined, and if needed will be added following AB 52 consultation.

**MM TCR-2:** [To Be Determined.] Mitigation measure TCR 2 is yet to be determined, and if needed will be added following AB 52 consultation.

**Level of Significance After Mitigation**

With implementation of **MM TCR-1 and MM TCR-2** above, the proposed project would result in less than significant impacts to human remains and associated funerary objects.

## 4.19 Utilities and Service Systems

| Would the project: | Potentially Significant Impact | Less than Significant Impact with Mitigation Incorporated | Less than Significant Impact | No Impact |
|---|---|---|---|---|
| a) Require or result in the relocation or construction of new or expanded water wastewater treatment or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects? | | | **X** | |
| b) Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years? | | | **X** | |
| c) Result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments? | | | **X** | |
| d) Generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals? | | | **X** | |
| e) Comply with federal, state, and local management and reduction statutes and regulations related to solid waste? | | | **X** | |

### a) Would the project require or result in the relocation or construction of new or expanded water, wastewater treatment or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects?

**Less than Significant Impact**

The proposed project would use existing underground connections for the following utility lines and facilities: stormwater, domestic water, sanitary sewer, natural gas, electrical power, fire water and communications.

**Wastewater Treatment and Conveyance** – The City is the primary provider of sewer and sanitation services to the City. The City's Department of Water and Power (DWP), Wastewater Division, serves a population of approximately 168,000 people over 38.5 square miles. The City's sewer system is composed of 13 sewer lift stations and associated force mains, three water reclamation facilities, and

a network of gravity sewer pipes of approximately 368 miles; the effluent produced meets criteria for discharge to percolation ponds, Temescal Creek, and California Title 22 reuse.[18] The project would not increase school enrollment at Centennial High School and development would utilize existing sewer connections onsite which connect to an existing sewer main. Therefore, no new facilities for Wastewater Treatment and Conveyance would be required and the project would have a less than significant impact.

**Domestic Water** – As detailed in **Threshold 4.19 b)** below, the project site is within the City of Corona Utilities Department's service area. The City of Corona's water supply consists of imported water purchased from the Western Municipal Water District; local groundwater from the Temescal and Bedford-Coldwater groundwater basins, and recycled wastewater. The City's water supplies in 2020 consisted of approximately 38 percent imported water, 35 percent groundwater, and 27 percent recycled wastewater. The City forecasts that its water sources in 2045 will be comprised of about 46 percent imported water, 33 percent groundwater, and 22 percent recycled wastewater (City of Corona, 2021b, p. 6-29). Recycled wastewater is used for landscaping irrigation, toilet flushing via dual plumbed systems, firefighting, dust control, and various construction uses (City of Corona, 2021a, p. 6-17).

The proposed project would not increase school enrollment, and result only in a nominal increase in water demand compared to existing conditions, therefore, the project would have a less than significant impact on domestic water supplies.

**Fire-Water -** The project proposes to connect to an existing fire water main on site. The project would not increase school enrollment, and the development would not increase fire hazards onsite so no increase in fire water demands would occur. Therefore, the project would have a less than significant impact on fire water supplies.

**Water Treatment** – Imported water is treated at the Mills Water Filtration Plant in the City of Riverside, which has a capacity of 220 mgd; and two City of Corona water treatment plants: Lester, which has a capacity of 30 mgd, and Sierra del Oro, with a capacity of nine mgd (City of Corona, 2021a, p. 6-3). The project would not increase school enrollment, and the development would have only a nominal effect on water demands at Centennial High School and would not require the construction of new or expanded water treatment facilities. Therefore, impacts would be less than significant on water treatment.

**Stormwater** – The City of Corona has established regulatory guidelines regarding the discharge of pool water. The City of Corona Public Works Department is required to test the level of chlorination prior to any pool water discharge. In general, the guideline for such releases requires that all the following criteria are met:

- The residual chlorine does not exceed 0.1 mg/l (parts per million);
- The pH is between 6.5 and 8.5;
- The water is free of any unusual coloration;
- There is no discharge of filter media;
- There is no discharge of acid-cleaning wastes;
- The discharge will not cause erosion; and

[18] California Code of Regulations Title 22 sets forth permitted uses for treated and recycled water.

- The discharge will not cause the transport of pollutants such as motor oil; pet waste; trash and other debris into the storm drain system (City of Corona, 2023e).

The project would follow all established regulations concerning the discharge of pool water. Additionally, the proposed project does not include storm drain improvements, except for the possible rerouting of a storm drain. The project impacts regarding stormwater would be less than significant.

**Electric Power:** Electric power for the City of Corona is provided by Southern California Edison (SCE) (PlaceWorks, 2019, p 4-6). The proposed project is in a developed campus area, and existing connections will be utilized. The project does not propose new electrical connections and the existing infrastructure for providing electric power to the project is well established. The project would not increase school enrollment, would be constructed in accordance with applicable Title 24 regulations, and would not necessitate the construction or relocation of electric power facilities. Therefore, a less than significant impact would occur.

**Natural Gas:** Natural Gas for the City of Corona is provided by Southern California Gas (SoCalGas) (PlaceWorks, 2019, p 4-6). The proposed project is in a developed campus area, and existing connections will be utilized. Water heating for the pool and the locker rooms will be by natural gas. The project would not increase school enrollment and would be constructed in accordance with applicable Title 24 regulations so not to necessitate the construction or relocation of natural gas facilities. Therefore, a less than significant impact would occur.

**Telecommunications Facilities:** Telecommunication providers currently offer services to the project campus. It is expected that the services would continue to be provided to the project site from existing on-site connections. The proposed project would not interfere with the operation of telecommunications facilities, and therefore a less than significant impact would occur.

**b) Would the project have sufficient water supplies available to serve the and reasonably foreseeable future development during normal, dry and multiple dry years?**

**Less than Significant Impact**

**Water Supplies and Demands**

The City of Corona has a diverse water supply portfolio including imported water from Western Municipal Water District (WMWD), groundwater from two local basins (Temescal Basin and Bedford-Coldwater Basin), and reclaimed water for landscape irrigation and other non-potable uses. There are three "Year" categories included in the water service reliability assessment; these are Normal Year, Single Dry Year, and Five Consecutive Dry Years (City of Corona, 2021a).

The retail water supply resiliency for the City of Corona was assessed in all three categories and projected through 2045. The Projected Supply was compared to the Projected Demand under normal and drought conditions to demonstrate an adequate water supply. **Table 4.19-1** establishes that the City's sources of water are projected to have surplus supply through 2045 in normal and drought conditions (City of Corona, 2020, p. 7-7).

**Table 4.19-1**
**CITY OF CORONA RETAIL WATER SUPPLIES AND DEMANDS, AFY**

| Supply Source | 2025 | 2030 | 2035 | 2040 | 2045 |
|---|---|---|---|---|---|
| **Projected Supply** | | | | | |
| Imported Water | 21,110 | 21,110 | 21,110 | 21,110 | 21,110 |
| Temescal Basin (groundwater) | 13,000 | 13,000 | 13,000 | 13,000 | 13,000 |
| Bedford-Coldwater Basin (groundwater) | 2,112 | 2,112 | 2,112 | 2,112 | 2,112 |
| Reclaimed Water | 10,000 | 10,000 | 10,000 | 10,000 | 10,000 |
| Total | **46,222** | **46,222** | **46,222** | **46,222** | **46,222** |
| **Projected Demand** | | | | | |
| Normal Year | 37,555 | 37,768 | 38,017 | 38,216 | 38,351 |
| Single Dry Year | 39,358 | 39,581 | 39,842 | 40,051 | 40,192 |
| Five Consecutive Dry Years | | | | | |
| Year One | 38,382 | 38,599 | 38,854 | 39,057 | 39,195 |
| Year Two | 40,635 | 40,865 | 41,135 | 41,350 | 41,496 |
| Year Three | 42,212 | 42,452 | 42,731 | 42,955 | 43,107 |
| Year Four | 41,987 | 42,225 | 42,503 | 42,726 | 42,877 |
| Year Five | 38,757 | 38,977 | 39,234 | 39,439 | 39,579 |
| **Projected Surplus** | | | | | |
| Normal Year | **8,667** | **8,454** | **8,205** | **8,206** | **7,871** |
| Single Dry Year | **6,864** | **6,641** | **6,380** | **6,171** | **6,030** |
| **Five Consecutive Dry Years** | | | | | |
| Year One | **7,840** | **7,623** | **7,368** | **7,165** | **7,027** |
| Year Two | **5,587** | **5,357** | **5,087** | **4,872** | **4,726** |
| Year Three | **4,010** | **3,770** | **3,491** | **3,267** | **3,115** |
| Year Four | **4,235** | **3,997** | **3,719** | **3,496** | **3,345** |
| Year Five | **7,465** | **7,245** | **6,988** | **6,783** | **6,643** |

Source: City of Corona 2020 Urban Water Management Plan (UWMP)
*Includes all sources of water supply including recycled water and any acquisitions, transfers, etc.

The proposed Olympic-sized swimming pool (pool) would hold 689,776 gallons of water. The pool would require water to initially fill and maintain adequate water levels. Pool pumps and equipment would recycle water, but pool water would be lost daily due to evaporation. The amount of water used by the proposed project in the long term would result in a minor increase over the existing water use of Centennial High School as a whole, including the existing swimming pool. The project would not increase school enrollment but would result in long-term use of water, however, it is considered a minor increase in the current water use of the School. As the City of Corona provides for the water needs throughout the City to account for both residential and commercial growth, the project is considered to have sufficient water supplies available and is not expected to significantly contribute to any water shortages during normal, dry, or multiple dry years; therefore, a less than significant impact is anticipated.

**c) Would the project result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?**

**Less than Significant Impact**

As described under **Threshold 4.19a** above, there would be sufficient capacity available at the City of Corona's three water reclamation facilities to meet the wastewater treatment demands of the project. The project would not increase school enrollment, and the existing wastewater treatment facilities could accommodate the additional wastewater estimated to be generated. Therefore, the project would have a less than significant impact.

**d) Would the project generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?**

**Less than Significant Impact**

The city contracts with Waste Management (WM) for the collection and disposal of the city's solid waste. Solid waste collected by WM within the City is disposed of at El Sobrante Landfill located approximately two miles south of the City of Corona. El Sobrante Landfill, which is permitted through 2025, has a maximum daily capacity of 16,054 tons and a total remaining capacity of 143,977,170 cubic yards (see **Table 4.19-3**) (CalRecycle, 2023b).

**Table 4.19-2**
**LANDFILLS SERVING THE CITY OF CORONA**

| Facility & Nearest City/Community | Remaining Capacity, cubic yards | Daily Permitted Disposal Capacity, tons | Actual Daily Disposal, tons* | Residual Daily Disposal Capacity, tons | Estimated Closing Date |
|---|---|---|---|---|---|
| El Sobrante Landfill | 143,977,170 | 16,054 | 11,398 | 4,656 | 2051 |

*Daily disposal calculated based on annual disposal tonnage assuming 300 operating days per year (6 days/week, minus holidays)
Source: CalRecycle. 2023b.

**Construction**

Materials generated during the construction of the project would include paper, cardboard, metal, plastics, glass, concrete, lumber scraps, and other materials. Title 24[19] requires that at least 65 percent of the nonhazardous construction and demolition waste be recycled or salvaged for reuse, or meet a local construction and demolition waste management ordinance, whichever is more stringent. Therefore, project impacts during construction would be less than significant.

**Operation**

Project operation would not expand enrollment at Centennial High School. The proposed aquatics center would be used for occasional swim meets that would be new uses, but such meets would only be occasional. Therefore, the proposed project would slightly increase the generation of solid waste; however, this increase would not be substantial and could be accommodated by the current landfill

[19] 2022 California Code of Regulations, Title 24, Part 11

capacities. The project is located on a developed school campus and within the City's refuse collection area. The project would not increase school enrollment, and would not generate solid waste in excess of State or local standards or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals. Therefore, project impacts during operation would be less than significant.

**e) Would the project comply with federal, state, and local management and reduction statutes and regulations related to solid waste?**

**Less Than Significant Impact**

The County of Riverside's (RivCo) Countywide Integrated Waste Management Plan (CIWMP) was prepared in accordance with AB 939. AB 939 redefined solid waste management in terms of both objectives and planning responsibilities for local jurisdictions and the state. AB 939 was adopted to reduce the volume and toxicity of solid waste that is landfilled and incinerated by requiring local governments to prepare and implement plans to improve the management of waste resources. AB 939 required each of the cities and unincorporated portions of counties throughout the state to divert a minimum of 25 percent by 1995 and 50 percent of the solid waste landfilled by the year 2000.

The City of Corona is a participant in the CIWMP, and thus the proposed project would be in conformance with AB 939 requirements.

Assembly Bill 341 (AB 341; Chapter 476, Statutes of 2011), as previously mentioned, increases the statewide waste diversion goal to 75 percent by 2020 and mandates recycling for commercial and multi-family residential land uses. The project would include storage areas for recyclable materials in accordance with AB 341.Assembly Bill 1826 (AB 1826; California Public Resources Code §§ 42649.8 et seq.) requires the recycling of organic matter by businesses and multifamily residences of five or more units generating such wastes in amounts over certain thresholds. Organic waste means food waste, green waste, landscape and pruning waste, nonhazardous wood waste, and food-soiled paper waste that is mixed in with food waste. Multifamily residences are not required to have a food waste diversion program. The project would include the recycling of organic waste as required for County operations and community organizations under AB 1826. The proposed project would comply with AB 1826.

Senate Bill 1383 (SB 1383; California Health and Safety Code §§ 39730.5 et seq.) set targets to achieve a 50 percent reduction in the level of the statewide disposal of organic waste from the 2014 level by 2020 and a 75 percent reduction by 2025. The law is intended to reduce emissions of methane, a short-lived climate pollutant, from the decomposition of organic waste in landfills, for the protection of people in at-risk communities as well as to reduce GHG emissions. The project would include the recycling of organic waste as required under SB 1383.

Assembly Bill 827 (AB 827; California Public Resources Code §§ 42649.1 et seq.) requires that recycling and organic waste containers be made available to customers.

Section 5.408 (Construction Waste Reduction, Disposal, and Recycling) of Title 24 requires that at least 65 percent of the nonhazardous construction and demolition waste from nonresidential construction operations be recycled and/or salvaged for reuse. Demolition and construction during project development would comply with Section 5.408 requirements.

The proposed project would comply with all applicable local, state, and federal solid waste disposal standards, therefore, would have a less than significant impact.

## 4.20 Wildfire

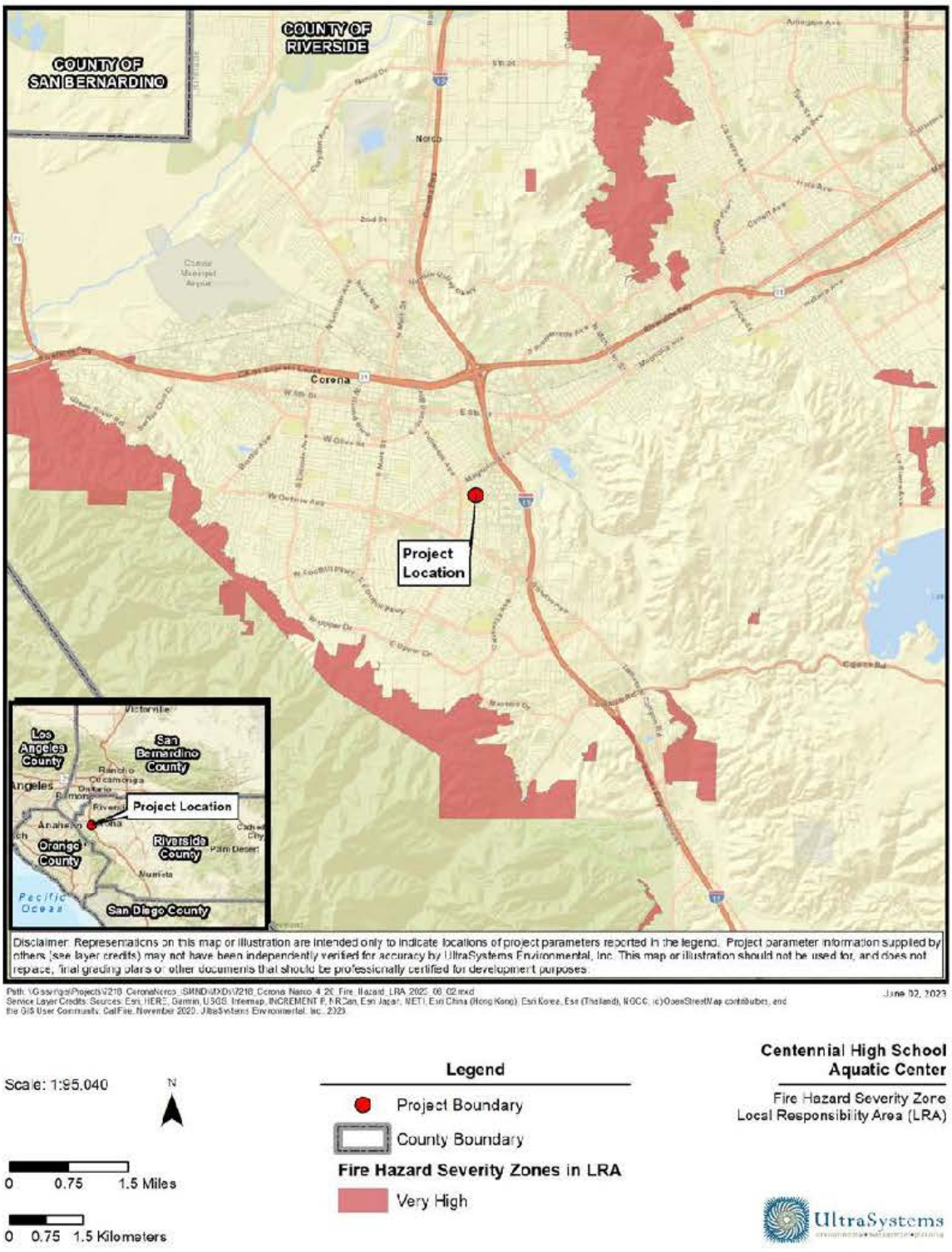
| If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project: | Potentially Significant Impact | Less than Significant Impact with Mitigation Incorporated | Less than Significant Impact | No Impact |
|---|---|---|---|---|
| a) Substantially impair an adopted emergency response plan or emergency evacuation plan? | | | | **X** |
| b) Due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to, pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire? | | | **X** | |
| c) Require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment? | | | | **X** |
| d) Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes? | | | | **X** |

### a) If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project substantially impair an adopted emergency response plan or emergency evacuation plan?

**No Impact**

As shown in **Figure 4.20-1**, the project site is not located in a Very High Fire Hazard Severity Zone (VHFHSZ) within a Local Responsibility Area (LRA), that is, where cities or counties are responsible for the costs of wildfire prevention and suppression. The nearest VHFHSZ in LRA to the project site is about 3.0 miles to the south, in the City of Corona. The project site is not located in a State Responsibility Area (SRA), i.e., where the State is responsible for the costs of wildfire prevention and suppression. Therefore, the proposed project would have no impact in this regard.

**FIGURE 4.20-1**
**FIRE HAZARD SEVERITY ZONE LOCAL RESPONSIBILITY AREA**



**b) If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to, pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?**

**Less than Significant Impact**

The project site is not located in or near a VHFHSZ. No slopes which could exacerbate wildfire risks are on or near the project site. Hot, dry winds occur occasionally in Corona, typically between June to September (CAL FIRE, 2021a). However, Corona is no more prone to winds than are most other lowland places in southern California. Thus, the project would not expose project occupants to pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire. Therefore, the proposed project would have a less than significant impact in this regard.

**c) If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?**

**No Impact**

The project site is not located in an SRA, nor is the project site in or near a VHFHSZ. The project site is in a built-out urban area, and project development would not require the installation or maintenance of infrastructure that may exacerbate fire risk. Therefore, the proposed project would have no impact in this regard.

**d) If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?**

**No Impact**

The project site is not located in or near state responsibility areas or lands classified as very high fire hazard severity zones. The proposed project would not expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes. The project site is flat, is not in an area with high slopes or unstable ground conditions, and is not within a landslide hazard zone. Therefore, the project would have no impact in this regard.

## 4.21 Mandatory Findings of Significance

| Would the project have: | Potentially Significant Impact | Less than Significant Impact with Mitigation Incorporated | Less than Significant Impact | No Impact |
|---|---|---|---|---|
| a) Does the project have the potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory? | | | **X** | |
| b) Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)? | | | **X** | |
| c) Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly? | | **X** | | |

**a) Would the project have the potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?**

**Less Than Significant Impact with Mitigation Incorporated**

The project site is located in a suburban area and provides low-value habitat for special status plants and wildlife species. The project site itself has a relatively flat topography; elevations on the project site range from 781 feet to 808 feet above mean sea level (amsl). The Biological Study Area (BSA) contains existing Centennial High School facilities including the aquatic center and a paved parking lot, additional school facilities (including recreation areas), residential development, paved roadways, associated infrastructure, and associated landscaped areas containing ornamental

species. The BSA does not provide suitable habitat for any of the plant species evaluated in **Section 4.4** of this Initial Study, therefore, the project would have no impact on endangered plants.

As noted above, the BSA is developed and is surrounded by developed areas, which significantly limits the availability of foraging habitats for wildlife species within the BSA. In addition, the high level of traffic and traffic noise may render the area uninhabitable for many special-status species. However, project construction could result in dust, noise, and vibration which may cause indirect impacts on the nesting and foraging behavior of birds protected under the Migratory Bird Treaty Act. The BSA contains large trees and other physical features that could potentially provide foraging, nesting, and cover habitats that could support various bird species. Potential impacts would be less than significant. Implementation of Project Design Feature **PDF BIO-1**, requiring a *Pre-Construction Breeding Bird Survey* would further minimize or avoid potential project impacts to breeding birds to less than significant, and mitigation would not be required

Impacts on archaeological resources that may be buried in site soils were determined to be potentially significant without mitigation. Such impacts would be less than significant after the implementation of mitigation measure **CUL-1**. Impacts on human remains that may be buried in site soils were determined to be potentially significant without mitigation. Implementation of mitigation measure **CUL-2** would reduce that impact to less than significant.

**b) Would the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)?**

**Less than Significant Impact**

In the short term, there would be a potential for cumulative effects on traffic, air quality, and noise if other development projects were implemented concurrently with the project. There are no projects listed on the City of Corona –Projects Updates, dated July 12, 2023, within 0.5 miles of the project site. (City of Corona, 2023f)

**c) Would the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?**

**Less than Significant Impact with Mitigation Incorporated**

Archaeological resources may be buried in site soils and could be damaged by project ground-disturbing activities. This impact would be significant without mitigation. Implementation of mitigation measure **CUL-1** would reduce this impact to less than significant. Impacts on human remains that may be buried in site soils were determined to be significant without mitigation. Implementation of mitigation measure **CUL-2** would reduce that impact to less than significant. **TCR-MM Placeholder**

Based on LCI's investigation and laboratory testing, the near-surface alluvial soils in the proposed structure locations are considered slightly compressible, becoming less compressible with depth. The Geotechnical Evaluation Report (see Appendix E1) recommends the removal of existing soil to a depth of five feet below the existing ground surface and replacement with engineered, moistened, and compacted fill soils. Mitigation measure **GEO-1**, as detailed in **Section 4.7** of this Initial Study, is recommended to reduce potential impacts from settlement, subsidence, or collapse. Impacts related

to unstable soils would be less than significant after the implementation of mitigation measure **GEO-1**.

Fossils could be buried in site soil. Project ground-disturbing activities could damage fossils. Implementation of mitigation measure **GEO-2** would reduce this impact to less than significant.

In Phase I, during the grading, offsite improvements, and building construction subphases, short-term exposures of nearby residents would exceed limits prescribed in the Municipal Code, and the increase in noise exposures at sensitive receivers would exceed 5 dBA. Implementation of mitigation measure **N-1** would reduce this impact to less than significant.

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# 7.0 MITIGATION MONITORING AND REPORTING PROGRAM

The Mitigation Monitoring and Reporting Program (MMRP) has been prepared in conformance with § 21081.6 of the Public Resources Code and § 15097 of the CEQA Guidelines, which require all state and local agencies to establish monitoring or reporting programs whenever approval of a project relies upon an MND or an EIR. The MMRP ensures the implementation of the measures being imposed to mitigate or avoid the significant adverse environmental impacts identified through the use of monitoring and reporting. Monitoring is generally an ongoing or periodic process of project oversight; reporting generally consists of a written compliance review that is presented to the decision-making body or authorized staff person.

It is the intent of the MMRP to: (1) provide a framework for documenting implementation of the required mitigation; (2) identify monitoring/reporting responsibility; (3) provide a record of the monitoring/reporting; and (4) ensure compliance with those MMs that are within the responsibility of the City and/or Applicant to implement.

The following table lists impacts, mitigation measures adopted by the Corona Norco Unified School District in connection with approval of the proposed project, level of significance after mitigation, responsible and monitoring parties, and the project phase in which the measures are to be implemented.

Only those environmental topics for which mitigation is required are listed in this Mitigation Monitoring and Reporting Program.

## Table 7.0-1
## MITIGATION MONITORING AND REPORTING PROGRAM

| TOPICAL AREA IMPACT | MITIGATION MEASURE | RESPONSIBLE PARTY | MONITORING ACTION | 1. ENFORCEMENT AGENCY<br>2. MONITORING AGENCY<br>3. MONITORING PHASE |
|---|---|---|---|---|
| **4.5 Cultural Resources** | | | | |
| **Threshold 4.5 b)** Cause a substantial adverse change in the significance of an archaeological resource pursuant to § 15064.5. | **MM CUL-1** If archaeological resources are discovered during construction activities, the contractor will halt construction activities in the immediate area and notify the District. The project applicant shall retain an archaeologist who meets the Secretary of the Interior's Professional Qualifications Standards for Archaeology who will be notified and afforded the necessary time to recover, analyze, and curate the find(s). The qualified archaeologist will recommend the extent of archaeological monitoring necessary to ensure the protection of any other resources that may be in the area. Any identified cultural resources shall be recorded on the appropriate DPR 523 (A L) form and filed with the Eastern Information Center. Construction activities may continue on other parts of the project site while evaluation and treatment of prehistoric archaeological resources takes place. | Qualified Archaeologist and Project Contractor | Field Verification | 1. CNUSD<br>2. CNUSD<br>3. During construction activities |
| **Threshold 4.5 c):** Disturb any human remains, including those interred outside of formal cemeteries. | **MM CUL-2** If human remains are encountered during excavations associated with this project, all work will stop within a 30-foot radius of the discovery and the Riverside County Coroner will be notified (§ 5097.98 of the Public Resources Code). The Coroner will determine whether the remains are recent human origin or older Native American ancestry. If the coroner, with the aid of the supervising archaeologist, determines that the remains are prehistoric, they will contact the NAHC. The NAHC will be responsible for designating the Most Likely Descendant (MLD). The MLD (either an individual or sometimes a committee) will be responsible for the ultimate disposition of the remains, as required by § 7050.5 of the California Health and Safety Code. The MLD will make recommendations within 24 hours of their notification by the NAHC. These recommendations may include scientific removal and nondestructive analysis of human remains and items associated with Native American burials (§ 7050.5 of the Health and Safety Code). | Project Construction Contractor | Field Verification | 1. CNUSD<br>2. CNUSD<br>3. During project construction activities |

| TOPICAL AREA IMPACT | MITIGATION MEASURE | RESPONSIBLE PARTY | MONITORING ACTION | 1. ENFORCEMENT AGENCY<br>2. MONITORING AGENCY<br>3. MONITORING PHASE |
|---|---|---|---|---|
| **4.7 Geology and Soils** | | | | |
| **Threshold 4.7 c):** Would the project be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?<br>-and-<br>**Threshold 4.7 d)**: Would the project be located on expansive soil, as defined in Table 18-1 B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property? | **MM GEO-1**<br>To minimize potential impacts resulting from unstable soils, prior to the issuance of a certificate of occupancy, the project applicant shall implement applicable recommendations provided in Section 3.0 Conclusions and Recommendations of the Geotechnical Evaluation Report prepared by LCI, dated September 2, 2022, and revised February 15, 2023, for the proposed project (LCI, 2023). | Project Applicant, Project Architect, and Project Construction Contractor | Implement Recommendations | 1. CNUSD<br>2. CNUSD<br>3. During project design and project construction activities |
| **Threshold 4.7 f):** Would the project directly or indirectly destroy a unique paleontological resource or site or unique geologic feature? | **MM GEO-2**<br>Prior to the issuance of building/grading permit, the project applicant shall retain a qualified paleontologist, to remain on-call during project ground-disturbing activities. If paleontological resources are uncovered during project construction, the contractor shall halt construction activities within 50 feet of the find and notify the District. The on-call paleontologist shall be notified and afforded the necessary time and funds to recover, analyze, and curate the find(s). The paleontologist shall curate the find(s) at an accredited repository for paleontological resources such as Western Science Center. Subsequently, the monitor shall remain onsite for the duration of the ground disturbance to ensure the protection of any other resources that are found during construction on the project site. | Project Applicant, Qualified Paleontologist, and Construction Contractor | Monitoring, Assessment, Recovery, and Curation | 1. CNUSD<br>2. CNUSD<br>3. During project construction activities |

| TOPICAL AREA IMPACT | MITIGATION MEASURE | RESPONSIBLE PARTY | MONITORING ACTION | 1. ENFORCEMENT AGENCY<br>2. MONITORING AGENCY<br>3. MONITORING PHASE |
|---|---|---|---|---|
| **4.13 Noise** | | | | |
| **Threshold 4.13 a):** Exposure of persons to or generation of noise level in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies. | **MM N-1**<br>Project applicants shall require by contract specifications that the following construction best management practices (BMPs) be implemented by contractors to reduce construction noise levels:<br>• Ensure that construction equipment is properly muffled according to industry standards and in good working condition.<br>• Place noise-generating construction equipment and locate construction staging areas away from sensitive uses, where feasible.<br>• Schedule high noise-producing activities between the hours of 8:00 AM and 7:00 PM to minimize disruption on sensitive uses.<br>• Implement noise attenuation measures to the extent feasible, which may include, but are not limited to, temporary noise barriers or noise blankets around stationary construction noise sources.<br>• Use electric air compressors and similar power tools rather than diesel equipment, where feasible.<br>• Construction-related equipment, including heavy-duty equipment, motor vehicles, and portable equipment, shall be turned off when not in use for more than 30 minutes.<br>• Construction hours, allowable workdays, and the phone number of the job superintendent shall be clearly posted at all construction entrances to allow for surrounding owners and residents to contact the job superintendent. If the City or the job superintendent receives a complaint, the superintendent shall investigate, take appropriate corrective action, and report the action taken to the reporting party. Contract specifications shall be included in the proposed project construction documents, which shall be reviewed by the City prior to issuance of a grading permit. | Project Applicant and Project Construction Contractor | Contract Specifications | 1. CNUSD<br>2. CNUSD<br>3. During construction |
| | **MM N-2**<br>Project applicants shall require by contract specifications that heavily loaded trucks used during construction would be routed away from residential streets to the extent feasible. Contract specifications shall be included in the proposed project construction documents, which shall be reviewed by the City prior to issuance of a grading permit. | Project Applicant | Contract Specifications | 1. CNUSD<br>2. CNUSD<br>3. During construction |

| TOPICAL AREA IMPACT | MITIGATION MEASURE | RESPONSIBLE PARTY | MONITORING ACTION | 1. ENFORCEMENT AGENCY<br>2. MONITORING AGENCY<br>3. MONITORING PHASE |
|---|---|---|---|---|
| | **MM N-3**<br>The District will select one classroom from rooms 811-820 for noise exposure monitoring on days when construction takes place. The north side of the classroom shall have windows, which must be closed during noise monitoring. One sound level meter meeting the requirements of City of Corona Municipal Code §17.84.040(F)(1) shall be placed on a tripod so that the microphone is four feet above the floor and at least five feet from any vertical surface. Noise should be measured at the "slow" rate. Each classroom use session shall be considered as one event. The meter shall start recording at the beginning of an event and stop recording at the end of an event. After the last event of the school day, the results of each recording session shall be downloaded from the measurement device and archived. The $L_{eq}$ and $L_{90}$ values for all events of the day shall be entered into a spreadsheet. If, after five consecutive occupied classroom days, the majority of the events measured have an $L_{90}$ exceeding 45 dBA, then MM N-4 shall be implemented. | Centennial High School administrative staff and Project Construction Contractor | Contract Specifications | 1. CNUSD<br>2. CNUSD<br>3. During construction |
| | **MM N-4**<br>**If and only if conditions enumerated in MM N-3 are present, then this mitigation measure shall be implemented.**<br><br>Construct and deploy throughout all the construction phases, and during hours of classroom instruction, a 220-foot-long temporary noise barrier on the north side of the paved area immediately south of the pool complex construction area. The barrier must be at least 13.5 feet high, except during paving, in which it must be at least 15.5 feet high. Alternative physical forms of this barrier may include:<br><br>•A noise barrier wall of AC plywood, lined on the construction side with glass fiber or mineral wool noise-absorbing material at least two inches thick, supported by wire mesh or perforated sheets that have at least 30 percent open area and provide for water drainage. Instead of using this configuration, the contractor may substitute a pre-assembled noise barrier wall having a rating of STC-25 or greater, based on certified sound transmission loss data obtained according to ASTM E90 and a noise reduction coefficient (NRC) rating of NRC-0.70 or greater, based on certified sound absorption coefficient data taken according to ASM C423. | Centennial High School administrative staff and Project Construction Contractor | Contract Specifications | 1. CNUSD<br>2. CNUSD<br>3. During construction |

| TOPICAL AREA IMPACT | MITIGATION MEASURE | RESPONSIBLE PARTY | MONITORING ACTION | 1. ENFORCEMENT AGENCY<br>2. MONITORING AGENCY<br>3. MONITORING PHASE |
|---|---|---|---|---|
| | •A moveable noise barrier that has the same construction as the aforementioned noise barrier wall, but comes in sections that can be assembled or disassembled as needed. Barrier units may be joined flush or by overlapping, with no gaps between sections or between any section and the ground. The moveable noise barrier shall have the same sound attenuation ratings as the noise barrier wall.<br><br>•A noise curtain with the same sound attenuation ratings as the noise barrier wall. | | | |
| 4.18 Tribal Cultural Resources | | | | |
| **Threshold 4.182 b):** Would the project cause a substantial adverse change in the significance of a tribal cultural resource that is determined to be a significant resource to a California Native American tribe pursuant to the criteria set forth in subdivision (c) of Public Resource Code § 5024.1(c)? | **TCR-1**<br>[To Be Determined.] Mitigation measure TCR 1 is yet to be determined, and if needed will be added following AB 52 consultation. | | | 1. CNUSD<br>2. CNUSD<br>3. During project construction activities |
| | **TCR-2**<br>[To Be Determined.] Mitigation measure TCR 2 is yet to be determined, and if needed will be added following AB 52 consultation. | | | 1. CNUSD<br>2. CNUSD<br>3. During project construction activities |

# APPENDICES

# APPENDIX A1

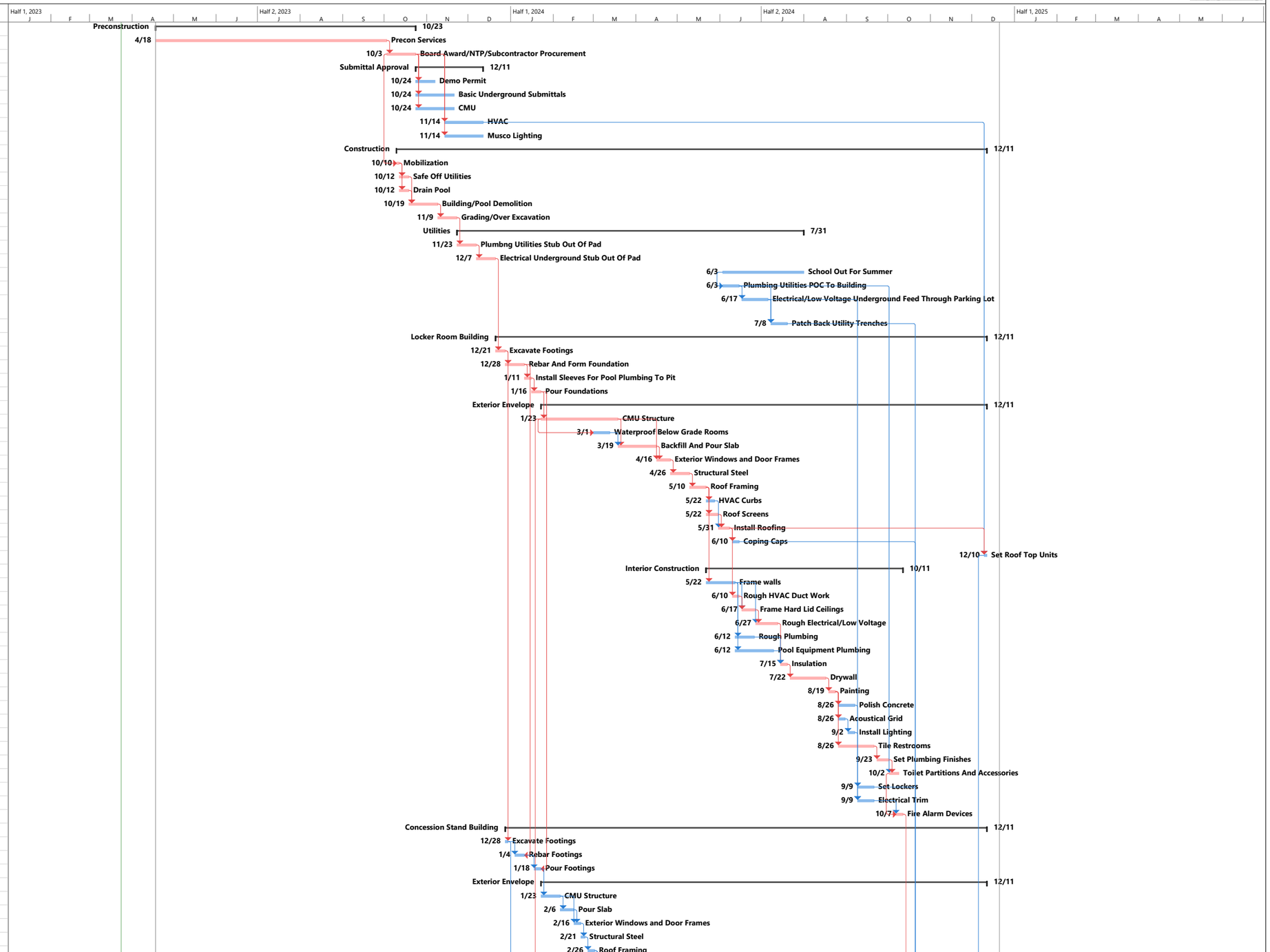
# PROJECT CONSTRUCTION SCHEDULE

Erickson-Hall Construction

CENTENNIAL HS AQUATICS CENTER
Proposal Schedule
Together We Can, Together We Will

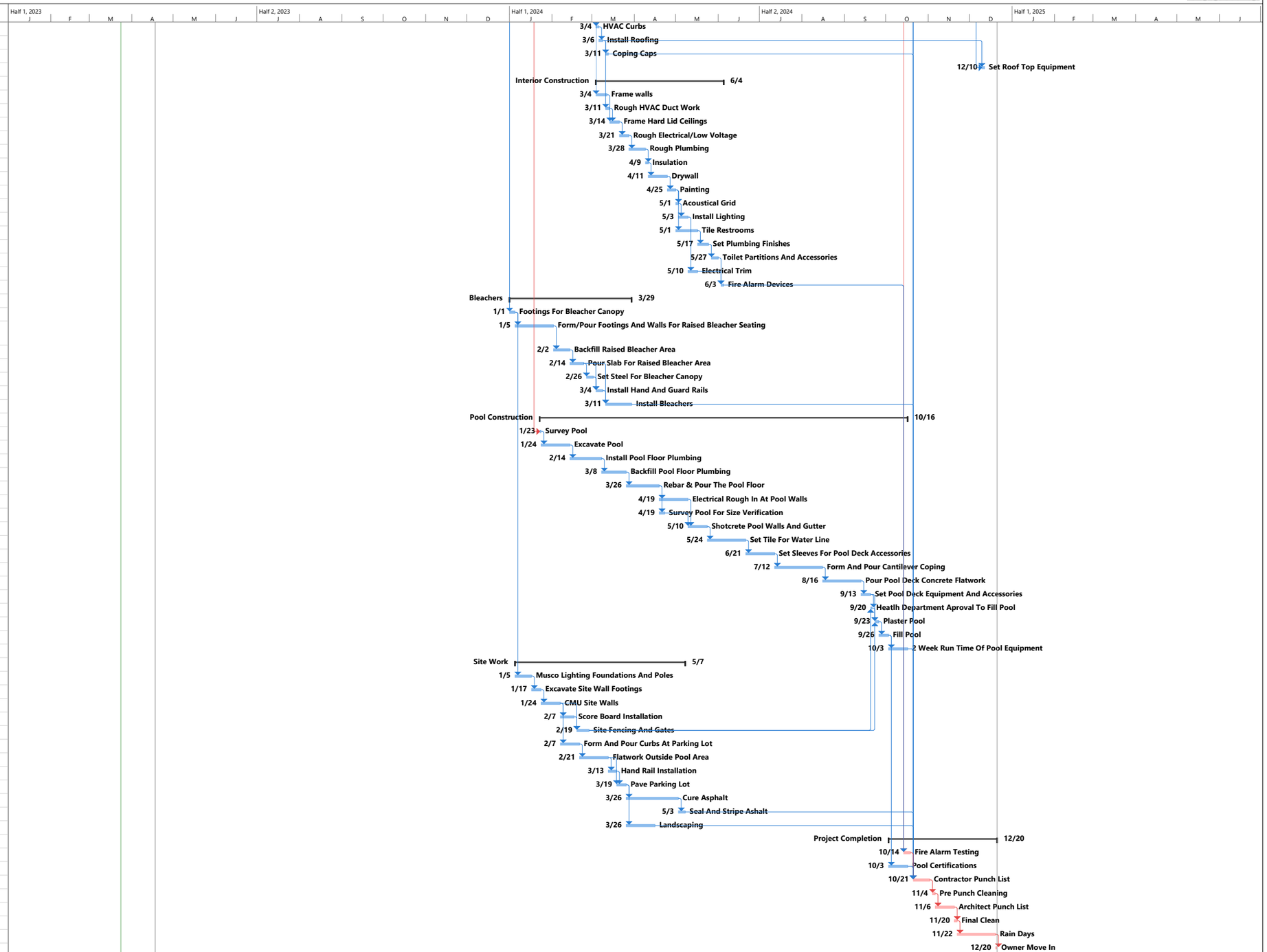
CORONA-NORCO UNIFIED SCHOOL DISTRICT - HUSKIES

| ID | Task Mode | Task Name | Duration | Start | Finish |
|---|---|---|---|---|---|
| 1 | | **Preconstruction** | **133 days** | **4/18/23** | **10/23/23** |
| 2 | | Precon Services | 118 days | 4/18/23 | 10/2/23 |
| 3 | | Board Award/NTP/Subcontractor Procurement | 15 days | 10/3/23 | 10/23/23 |
| 4 | | **Submittal Approval** | **35 days** | **10/24/23** | **12/11/23** |
| 5 | | Demo Permit | 10 days | 10/24/23 | 11/6/23 |
| 6 | | Basic Underground Submittals | 20 days | 10/24/23 | 11/20/23 |
| 7 | | CMU | 20 days | 10/24/23 | 11/20/23 |
| 8 | | HVAC | 20 days | 11/14/23 | 12/11/23 |
| 9 | | Musco Lighting | 20 days | 11/14/23 | 12/11/23 |
| 10 | | **Construction** | **307 days** | **10/10/23** | **12/11/24** |
| 11 | | Mobilization | 2 days | 10/10/23 | 10/11/23 |
| 12 | | Safe Off Utilities | 5 days | 10/12/23 | 10/18/23 |
| 13 | | Drain Pool | 5 days | 10/12/23 | 10/18/23 |
| 14 | | Building/Pool Demolition | 15 days | 10/19/23 | 11/8/23 |
| 15 | | Grading/Over Excavation | 10 days | 11/9/23 | 11/22/23 |
| 16 | | **Utilities** | **180 days** | **11/23/23** | **7/31/24** |
| 17 | | Plumbng Utilities Stub Out Of Pad | 10 days | 11/23/23 | 12/6/23 |
| 18 | | Electrical Underground Stub Out Of Pad | 10 days | 12/7/23 | 12/20/23 |
| 19 | | School Out For Summer | 43 days | 6/3/24 | 7/31/24 |
| 20 | | Plumbing Utilities POC To Building | 10 days | 6/3/24 | 6/14/24 |
| 21 | | Electrical/Low Voltage Underground Feed Through Parking Lot | 15 days | 6/17/24 | 7/5/24 |
| 22 | | Patch Back Utility Trenches | 10 days | 7/8/24 | 7/19/24 |
| 23 | | **Locker Room Building** | **255 days** | **12/21/23** | **12/11/24** |
| 24 | | Excavate Footings | 5 days | 12/21/23 | 12/27/23 |
| 25 | | Rebar And Form Foundation | 10 days | 12/28/23 | 1/10/24 |
| 26 | | Install Sleeves For Pool Plumbing To Pit | 3 days | 1/11/24 | 1/15/24 |
| 27 | | Pour Foundations | 5 days | 1/16/24 | 1/22/24 |
| 28 | | **Exterior Envelope** | **232 days** | **1/23/24** | **12/11/24** |
| 29 | | CMU Structure | 40 days | 1/23/24 | 3/18/24 |
| 30 | | Waterproof Below Grade Rooms | 8 days | 3/1/24 | 3/12/24 |
| 31 | | Backfill And Pour Slab | 20 days | 3/19/24 | 4/15/24 |
| 32 | | Exterior Windows and Door Frames | 8 days | 4/16/24 | 4/25/24 |
| 33 | | Structural Steel | 10 days | 4/26/24 | 5/9/24 |
| 34 | | Roof Framing | 8 days | 5/10/24 | 5/21/24 |
| 35 | | HVAC Curbs | 4 days | 5/22/24 | 5/27/24 |
| 36 | | Roof Screens | 7 days | 5/22/24 | 5/30/24 |
| 37 | | Install Roofing | 6 days | 5/31/24 | 6/7/24 |
| 38 | | Coping Caps | 5 days | 6/10/24 | 6/14/24 |
| 39 | | Set Roof Top Units | 2 days | 12/10/24 | 12/11/24 |
| 40 | | **Interior Construction** | **103 days** | **5/22/24** | **10/11/24** |
| 41 | | Frame walls | 15 days | 5/22/24 | 6/11/24 |
| 42 | | Rough HVAC Duct Work | 5 days | 6/10/24 | 6/14/24 |
| 43 | | Frame Hard Lid Ceilings | 8 days | 6/17/24 | 6/26/24 |
| 44 | | Rough Electrical/Low Voltage | 12 days | 6/27/24 | 7/12/24 |
| 45 | | Rough Plumbing | 10 days | 6/12/24 | 6/25/24 |
| 46 | | Pool Equipment Plumbing | 20 days | 6/12/24 | 7/9/24 |
| 47 | | Insulation | 5 days | 7/15/24 | 7/19/24 |
| 48 | | Drywall | 20 days | 7/22/24 | 8/16/24 |
| 49 | | Painting | 5 days | 8/19/24 | 8/23/24 |
| 50 | | Polish Concrete | 10 days | 8/26/24 | 9/6/24 |
| 51 | | Acoustical Grid | 5 days | 8/26/24 | 8/30/24 |
| 52 | | Install Lighting | 5 days | 9/2/24 | 9/6/24 |
| 53 | | Tile Restrooms | 20 days | 8/26/24 | 9/20/24 |
| 54 | | Set Plumbing Finishes | 7 days | 9/23/24 | 10/1/24 |
| 55 | | Toilet Partitions And Accessories | 5 days | 10/2/24 | 10/8/24 |
| 56 | | Set Lockers | 10 days | 9/9/24 | 9/20/24 |
| 57 | | Electrical Trim | 10 days | 9/9/24 | 9/20/24 |
| 58 | | Fire Alarm Devices | 5 days | 10/7/24 | 10/11/24 |
| 59 | | **Concession Stand Building** | **250 days** | **12/28/23** | **12/11/24** |
| 60 | | Excavate Footings | 2 days | 12/28/23 | 12/29/23 |
| 61 | | Rebar Footings | 5 days | 1/4/24 | 1/10/24 |
| 62 | | Pour Footings | 3 days | 1/18/24 | 1/22/24 |
| 63 | | **Exterior Envelope** | **232 days** | **1/23/24** | **12/11/24** |
| 64 | | CMU Structure | 10 days | 1/23/24 | 2/5/24 |
| 65 | | Pour Slab | 8 days | 2/6/24 | 2/15/24 |
| 66 | | Exterior Windows and Door Frames | 3 days | 2/16/24 | 2/20/24 |
| 67 | | Structural Steel | 3 days | 2/21/24 | 2/23/24 |
| 68 | | Roof Framing | 5 days | 2/26/24 | 3/1/24 |




Critical | Critical Split | Critical Progress | Task | Split | Task Progress | Baseline | Baseline Split | Baseline Milestone | Milestone | Summary Progress | Summary | Project Summary

| ID | Task Mode | Task Name | Duration | Start | Finish |
|---|---|---|---|---|---|
| 69 | | HVAC Curbs | 2 days | 3/4/24 | 3/5/24 |
| 70 | | Install Roofing | 3 days | 3/6/24 | 3/8/24 |
| 71 | | Coping Caps | 2 days | 3/11/24 | 3/12/24 |
| 72 | | Set Roof Top Equipment | 2 days | 12/10/24 | 12/11/24 |
| 73 | | **Interior Construction** | **67 days** | **3/4/24** | **6/4/24** |
| 74 | | Frame walls | 6 days | 3/4/24 | 3/11/24 |
| 75 | | Rough HVAC Duct Work | 3 days | 3/11/24 | 3/13/24 |
| 76 | | Frame Hard Lid Ceilings | 5 days | 3/14/24 | 3/20/24 |
| 77 | | Rough Electrical/Low Voltage | 5 days | 3/21/24 | 3/27/24 |
| 78 | | Rough Plumbing | 8 days | 3/28/24 | 4/8/24 |
| 79 | | Insulation | 2 days | 4/9/24 | 4/10/24 |
| 80 | | Drywall | 10 days | 4/11/24 | 4/24/24 |
| 81 | | Painting | 4 days | 4/25/24 | 4/30/24 |
| 82 | | Acoustical Grid | 2 days | 5/1/24 | 5/2/24 |
| 83 | | Install Lighting | 5 days | 5/3/24 | 5/9/24 |
| 84 | | Tile Restrooms | 12 days | 5/1/24 | 5/16/24 |
| 85 | | Set Plumbing Finishes | 6 days | 5/17/24 | 5/24/24 |
| 86 | | Toilet Partitions And Accessories | 5 days | 5/27/24 | 5/31/24 |
| 87 | | Electrical Trim | 5 days | 5/10/24 | 5/16/24 |
| 88 | | Fire Alarm Devices | 2 days | 6/3/24 | 6/4/24 |
| 89 | | **Bleachers** | **65 days** | **1/1/24** | **3/29/24** |
| 90 | | Footings For Bleacher Canopy | 4 days | 1/1/24 | 1/4/24 |
| 91 | | Form/Pour Footings And Walls For Raised Bleacher Seating | 20 days | 1/5/24 | 2/1/24 |
| 92 | | Backfill Raised Bleacher Area | 8 days | 2/2/24 | 2/13/24 |
| 93 | | Pour Slab For Raised Bleacher Area | 8 days | 2/14/24 | 2/23/24 |
| 94 | | Set Steel For Bleacher Canopy | 5 days | 2/26/24 | 3/1/24 |
| 95 | | Install Hand And Guard Rails | 5 days | 3/4/24 | 3/8/24 |
| 96 | | Install Bleachers | 15 days | 3/11/24 | 3/29/24 |
| 97 | | **Pool Construction** | **192 days** | **1/23/24** | **10/16/24** |
| 98 | | Survey Pool | 1 day | 1/23/24 | 1/23/24 |
| 99 | | Excavate Pool | 15 days | 1/24/24 | 2/13/24 |
| 100 | | Install Pool Floor Plumbing | 17 days | 2/14/24 | 3/7/24 |
| 101 | | Backfill Pool Floor Plumbing | 12 days | 3/8/24 | 3/25/24 |
| 102 | | Rebar & Pour The Pool Floor | 18 days | 3/26/24 | 4/18/24 |
| 103 | | Electrical Rough In At Pool Walls | 15 days | 4/19/24 | 5/9/24 |
| 104 | | Survey Pool For Size Verification | 2 days | 4/19/24 | 4/22/24 |
| 105 | | Shotcrete Pool Walls And Gutter | 10 days | 5/10/24 | 5/23/24 |
| 106 | | Set Tile For Water Line | 20 days | 5/24/24 | 6/20/24 |
| 107 | | Set Sleeves For Pool Deck Accessories | 15 days | 6/21/24 | 7/11/24 |
| 108 | | Form And Pour Cantilever Coping | 25 days | 7/12/24 | 8/15/24 |
| 109 | | Pour Pool Deck Concrete Flatwork | 20 days | 8/16/24 | 9/12/24 |
| 110 | | Set Pool Deck Equipment And Accessories | 5 days | 9/13/24 | 9/19/24 |
| 111 | | Heatlh Department Aproval To Fill Pool | 1 day | 9/20/24 | 9/20/24 |
| 112 | | Plaster Pool | 3 days | 9/23/24 | 9/25/24 |
| 113 | | Fill Pool | 5 days | 9/26/24 | 10/2/24 |
| 114 | | 2 Week Run Time Of Pool Equipment | 10 days | 10/3/24 | 10/16/24 |
| 115 | | **Site Work** | **88 days** | **1/5/24** | **5/7/24** |
| 116 | | Musco Lighting Foundations And Poles | 8 days | 1/5/24 | 1/16/24 |
| 117 | | Excavate Site Wall Footings | 5 days | 1/17/24 | 1/23/24 |
| 118 | | CMU Site Walls | 10 days | 1/24/24 | 2/6/24 |
| 119 | | Score Board Installation | 8 days | 2/7/24 | 2/16/24 |
| 120 | | Site Fencing And Gates | 7 days | 2/19/24 | 2/27/24 |
| 121 | | Form And Pour Curbs At Parking Lot | 10 days | 2/7/24 | 2/20/24 |
| 122 | | Flatwork Outside Pool Area | 15 days | 2/21/24 | 3/12/24 |
| 123 | | Hand Rail Installation | 4 days | 3/13/24 | 3/18/24 |
| 124 | | Pave Parking Lot | 5 days | 3/19/24 | 3/25/24 |
| 125 | | Cure Asphalt | 28 days | 3/26/24 | 5/2/24 |
| 126 | | Seal And Stripe Ashalt | 3 days | 5/3/24 | 5/7/24 |
| 127 | | Landscaping | 15 days | 3/26/24 | 4/15/24 |
| 128 | | **Project Completion** | **57 days** | **10/3/24** | **12/20/24** |
| 129 | | Fire Alarm Testing | 5 days | 10/14/24 | 10/18/24 |
| 130 | | Pool Certifications | 10 days | 10/3/24 | 10/16/24 |
| 131 | | Contractor Punch List | 10 days | 10/21/24 | 11/1/24 |
| 132 | | Pre Punch Cleaning | 2 days | 11/4/24 | 11/5/24 |
| 133 | | Architect Punch List | 10 days | 11/6/24 | 11/19/24 |
| 134 | | Final Clean | 2 days | 11/20/24 | 11/21/24 |
| 135 | | Rain Days | 20 days | 11/22/24 | 12/19/24 |
| 136 | | Owner Move In | 1 day | 12/20/24 | 12/20/24 |




Critical | Critical Split | Critical Progress | Task | Split | Task Progress | Baseline | Baseline Split | Baseline Milestone | Milestone | Summary Progress | Summary | Project Summary

# APPENDIX A2

# PROJECT PLANS

# CNUSD

# CENTENNIAL HIGH SCHOOL AQUATICS CENTER

## CONSTRUCTION DOCUMENTS

5/5/2023




**OWNER**

**Corona-Norco Unified School District**
2820 Clark Ave.
Norco, CA 92860
t: 951-736-5047
Contact: Jacquelyn Roberts

**ARCHITECT**

**PBK Architects**
8163 Rochester Avenue
Rancho Cucamonga, CA 91730
t: 909.987.0909
Contact: Gilbert Baez
David Blain
Oliver Nicolas

**CIVIL ENGINEER**

**FPL & Associates**
30 Corporate Park, Suite 401
Irvine, CA 92606
t: 949-252-1688 EX: 203
Contact: Ron Canedy

**STRUCTURAL ENGINEER**

**R.M. Byrd Miyamoto**
1047 W. 6th St. Suite A
Ontario, CA 91762
t: 909-983-5599
Contact: Frank Rice
Matt Shear

**MEPT ENGINEER**

**LEAF Engineers**
8163 Rochester Ave #100
Rancho Cucamonga, CA 91730
t: 909-987-0909
Contact: Rex Wang

**POOL DESIGN**

**AQUATIC DESIGN GROUP**
2226 Faraday Ave.
Carlsbad, CA 92008
t: 760-438-8400
Contact: Dennis Berkshire

**BLEACHER**

**SOUTHERN BLEACHER CO.**
P.O. Box 1
Graham, TX 76450
t: 916-817-9349
Contact: Ryan Hoy

**SPORTS LIGHTING**

**MUSCO SPORTS LIGHTING, LLC**
P.O. Box 808, 100 1st Ave West
Oskaloosa, IA 52577
t: 714-614-0863
Contact: Mike Higgins

PBK

CENTENNIAL HIGH SCHOOL AQUATICS CENTER

PROJECT ADDRESS:
1920 RIMPAU AVE.
CORONA, CA 92881

CONSTRUCTION DOCUMENTS

Architect
LICENSED ARCHITECT
David T. Blain
No. C-28451
EXPIRES 11-30-2024
STATE OF CALIFORNIA
FOR PLAN CHECK ONLY

COVER SHEET

G0.0

G0.1 - INDEX, ABBREVIATIONS, CENVENTIONS, MAP & NOTES

0" 1"

# DRAWING CONVENTIONS

PROPERTY LINE

AREA DRAIN

EXISTING ELEVATION

FINISH GRADE ELEVATION

NORTH SYMBOL

COLUMN LINE

FLOOR LINE

MATCH LINE

SECTION CALLOUT SYMBOL

EXTERIOR ELEVATION SYMBOL

INTERIOR ELEVATION SYMBOL

DOOR DESIGNATION

WINDOW DESIGNATION

PARTITION TYPE

EXISTING PARTITION

NEW PARTITION

REVISION NUMBER

DETAIL ENLARGED

PLAN OR DETAIL ENLARGED

DETAIL SECTIONS AND VERTICAL SECTIONS

DIMENSIONS

*NOTE: all dimensions to face of wall unless otherwise noted*

SPOT ELEVATION

SPOT COORDINATE

SHEET NUMBER ON WHICH CONTINUATION IS FOUND

FENCING (WITH POSTS)

BREAK LINE

KEY NOTE

ROOM NAME AND NUMBER

FIRE HOSE CABINET (RECESSED AND SURFACE MOUNTED)

FIRE EXTINGUISHER CABINET (RECESSED AND SURFACE MOUNTED)

EQUIPMENT DESIGNATION

TOILET ACCESSORY SYMBOL

SHOWER HEAD

FLOOR SINK

FLOOR DRAIN

OVERFLOW DRAIN AND ROOF DRAIN

ROOF TOP UNIT
REFER TO MECHANICAL FOR TYPE

GRAPHIC SCALE

# ABBREVIATIONS

| | | | |
|---|---|---|---|
| A.D. | AREA DRAIN | ELEV | ELEVATION (DRAWING) |
| A.D.A. | AMERICANS WITH DISABILITIES ACT | EQUIP | EQUIPMENT |
| A.F.F. | ABOVE FINISH FLOOR | EXIST | EXISTING |
| A.F.G. | ABOVE FINISH GRADE | EXP | EXPANSION |
| A.H.J. | ATHORITY HAVING JURISDICTION | EXT | EXTERIOR |
| A/C | AIR CONDITIONING | F.E. | FIRE EXTINGUISHER |
| ACP. | ACOUSTICAL PANEL | F.E.C. | FIRE EXTINGUISHER CABINET |
| ACT. | ACOUSTICAL TILE | F.H.C. | FIRE HOSE CABINET |
| ADJ. | ABADJUSTABLE | F.O.S. | FACE OF STUD |
| ALT. | ALTERNATE | FB. | FACE BRICK |
| ALUM. | ALUMINUM | FD. | FLOOR DRAIN |
| ARCH'L | ARCHITECTURAL | FIN. | FINISH (ED) |
| ASPH. | ASPHALT | FIXT. | FIXTURE |
| ∠ | ANGLE | FLR. | FLOOR (ING) |
| | | FLSHG. | FLASHING |
| B.U.R. | BUILT-UP ROOF | FLUOR | FLUORESCENT |
| BD. | BOARD | | |
| BLDG. | BUILDING | G.B. | GRAB BAR |
| BLK. | BLOCK | G.I. | GALVANIZED IRON |
| BM. | BEAM | GA. | GAUGE |
| | | GALV. | GALVANIZED |
| C | CHANNEL | GCMU | GLAZED CONCRETE MASONRY UNIT |
| C.J. | CONTROL JOINT | GEN. | GENERAL |
| C.M.U. | CONCRETE MASONRY UNIT | GEN. | GENERAL |
| C.W. | COLD WATER | GL. | GLASS / GLAZING |
| CAB. | CABINET | GL. | GLASS |
| CFMF | COLD FORMED METAL FRAMING | GR. | GRADE |
| | | GTP. | GLAZED TILE PAVER |
| CL | CENTERLINE | GYP. | GYPSUM DRYWALL |
| CLG. | CEILING | | |
| CLR | CLEAR | H.W. | HOT WATER |
| COL. | COLUMN | HM | HOLLOW METAL FRAME |
| COMP. | COMPRESSIBLE | HORIZ. | HORIZONTAL |
| CONC. | CONCRETE | HT. | HEIGHT |
| COND. | CONDITION | | |
| CORR. | CORRIDOR | I.D. | INSIDE DIAMETER |
| CPT. | CARPET (ED) | I.P.S. | IRON PIPE SIZE |
| CT. | CERAMIC TILE | INSUL | INSULATE (ED), (ION) |
| CTG | CLEAR TEMPERED GLAZING | INT. | INTERIOR |
| CTSK. | COUNTER SINK | ISA | INTERNATIONL SYMBOL OF ACCESSIBILITY |
| D | DRYER | | |
| D.F. | DRINKING FOUNTAIN | JT. | JOINT |
| D.P. | DAMPPROOFING | | |
| D.S. | DOWN SPOUT | L.P. | LIGHT POLE |
| DIA. | DIAMETER | LAM. | LAMINATE (D) |
| DIM. | DIMENSION | LAV. | LAVATORY |
| DTL. | DETAIL | LT. | LIGHT |
| DWG. | DRAWING | LT. WT. | LIGHTWEIGHT |
| E.J. | EXPANSION JOINT | M.O. | MASONRY OPENING |
| E.Q. | EQUAL | MAS. | MASONRY |
| EA. | EACH | MATL. | MATERIAL (S) |
| EDF | ELECTRIC DRINKING FOUNTAIN | MAX. | MAXIMUM |
| | | MB. | MARKER BOARD |
| EL. | ELEVATION (HEIGHT) | MECH. | MECHANICAL |
| ELECT. | ELECTRICAL | MEM | MEMBRANE |

| | | | |
|---|---|---|---|
| MEM. WP. | MEMBRANE WATERPROOFING | RSS. | ROD STOCK AND SEALANT |
| MEP | MECHANICAL, ELECTRICAL AND PLUMBING | S.C. | SEALED CONCRETE |
| | | S.D. | SOAP DISPENSER |
| MEZZ. | MEZZANINE | SCHED | SCHEDULE |
| MFR. | MANUFACTURE (R) | SCPL | SOLID CORE PLASTIC LAMINATE |
| MH. | MANHOLE | | |
| MIN. | MINIMUM | SECT | SECTION |
| MISC. | MISCELLANEOUS | SHT | SHEET |
| MOD | MODULAR | SIM | SIMILAR |
| MTL | METAL | SPC | SPECIAL COATING SYSTEM |
| MTP. | METAL TOILET PARTITION | SPEC | SPECIFICATION (S) |
| | | SQ. | SQUARE |
| N.D. | NAPKIN DISPOSAL | SS. | SOUND STRIP |
| N.I.C. | NOT IN CONTRACT | SS. STL. | STAINLESS STEEL |
| N.R. | NOT RATED | STD | STANDARD |
| N.T.S. | NOT TO SCALE | STL | STEEL |
| N.V. | NAPKIN VENDOR | STRUC | STRUCTURAL |
| NO. | NUMBER | SUSP | SUSPENDED |
| | | SVDF | SHEET VINYL DANCE FLOORING |
| O.C. | ON CENTER (S) | | |
| O.C.E.W. | ON CENTER EACH WAY | SYS | SYSTEM |
| O.D. | OUTSIDE DIAMETER | | |
| O.F.C.I. | OWNER FURNISHED, CONTRACTOR INSTALLED | T.B. | TACK BOARD |
| | | T.D.R. | TOWEL DISPENSER AND RECEPTACL |
| O.H. | OPPOSITE HAND | | |
| OPNG. | OPENING | T.O. | TOP OF |
| OPP. | OPPOSITE | T.O.B. | TOP OF (WOOD) BLOCKING |
| | | T.O.M. | TOP OF MASONRY |
| P. LAM. | PLASTIC LAMINATE | T.O.S. | TOP OF STEEL |
| P.C. | PRECAST | T.T.D. | TOILET TISSUE DISPENSER |
| P.H. | PAPER HOLDER | TCNA | TILE COUNCIL OF NORTH AMERICA |
| P.L. | PROPERTY LINE | | |
| P.P. | POWER POLE | TEL | TELEPHONE |
| P.W.B. | PREFINISHED WALL BOARD | TERR | TERRAZZO |
| PL. | PLATE | THK | THICK (NESS) |
| PLUMB. | PLUMBING | TYP | TYPICAL |
| PLYWD. | PLYWOOD | | |
| POL. | POLISHED | U.N.O. | UNLESS NOTED OTHERWISE |
| PR. | PAIR | UR. | URINAL |
| PREFIN. | PRE-FINISHED | | |
| PT. | POINT | V | VENT |
| PTD. | PAINTED | V.C.T. | VINYL COMPOSITION TILE |
| | | V.I.F. | VERIFY IN FIELD |
| Q.T. | QUARRY TILE | VENT. | VENTILATING, VENTILATED |
| | | VER. | VERIFY |
| R / RAD | RADIUS | VERT. | VERTICAL |
| RCP | REFLECTED CEILING PLAN | VGB | (PREFINISHED) VINYL CLAD GYPSUM BOARD |
| RD | ROOF DRAIN | | |
| RE. , REF. | REFER TO / REFERENCE / SEE | VWC | VINYL WALL COVERING |
| RECP. | RECEPTACLE | W | WASHING MACHINE |
| REINF. | REINFORCE (D), (ING) | W.P. | WATER PROOFING |
| REQ'D. | REQUIRED | W.S. | WEATHERSTRIP |
| RES. | RESILIENT | W.W. | WATER WELL |
| REV. | REVISION (S), REVISED | W.W.F | WELDED WIRE FABRIC |
| RF | RECREATIONAL RESILIENT FLOORING | W/ | WITH |
| | | WC | WATER CLOSET |
| RPG. | RELOCATABLE PAINTED GYPSUM BOARD | WD | WOOD |
| | | WDW | WINDOW |
| | | WT | WEIGHT |

# STATEMENT OF GENERAL CONFORMANCE

FOR ARCHITECTS/ENGINEERS WHO UTILIZE PLANS, INCLUDING BUT NOT LIMITED TO SHOP DRAWINGS, PREPARED BY OTHER LICENSED DESIGN PROFESSIONALS AND/OR CONSULTANTS
(Application No. 04-122208 File No. 33-H4)

☑ The drawings or sheets listed on the cover or index sheet (see asterisk *)
This drawing, page of specifications/calculations

have been prepared by other design professionals or consultants who are licensed and/or authorized to prepare such drawings in this state. It has been examined by me for:

1) design intent and appears to meet the appropriate requirements of Title 24, California Code of Regulations and the project specifications prepared by me, and
2) coordination with my plans and specifications and is acceptable for incorporation into the construction of this project.

The Statement of General Conformance "shall not be construed as relieving me of my rights, duties, and responsibilities under Sections 17302 and 81138 of the Education Code and Sections 4-336, 4-341 and 4-344" of Title 24, Part 1. *(Title 24, Part 1, Section 4-317 (b))*

I certify that: ☑ The drawings or sheets listed on the cover or index ☐ This drawing or page

| | |
|---|---|
| ☑ is/are in general conformance and | ☐ is/are in general conformance and |
| ☑ have been coordinated | ☐ have been coordinated |
| Signature / Date | Signature / Date |
| Architect or Engineer designated to be in general responsible charge | Architect or Engineer deligated responsibility for this portion of the work |
| Print Name | Print Name |
| License Number / Expiration Date | License Number / Expiration Date |

# DSA NOTES

1. ALL WORK SHALL CONFORM TO 2022 EDITION TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)
2. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY A CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PART I, TITLE 24, CCR
3. A PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-32, PART 1, TITLE 24, CCR; CLASS 1

# SCOPE OF WORK

ALL CONSTRUCTION AND SERVICES REQUIRED TO PROVIDE... REPLACEMENT OF EXISTING AQUATIC CENTER WITH THE FOLLOWING...

1. 50 METER POOL
2. LOCKER ROOM BUILDING
3. CONCESSIONS & SPECTATOR RESTROOM BUILDING
4. PERMANENT ELEVATED SPECTATOR BLEACHERS
5. NON-PC, STEEL-FRAMED SHADE CANOPY
6. STUDENT DROP-OFF

SITE IMPROVEMENTS INCLUDE, BUT ARE NOT LIMITED TO; WALKWAYS, UTILITIES, LANDSCAPING AND DRIVEWAYS/FIRE LANES

**NOTE:**
FIRE SAFETY DURING DEMOLITION AND/OR CONSTRUCTION SHALL COMPLY WITH 2022 CFC CHAPTER 33

# GENERAL NOTES

1. CONSTRUCTION DOCUMENTS DESCRIBE THE PRODUCTS, SYSTEMS, QUANTITIES, CONFIGURATION AND PERFORMANCE SPECIFICATIONS THAT DELIVER THE OVERALL DESIGN INTENT OF THE PROJECT.
2. THE CONSTRUCTION DOCUMENT DRAWINGS AND SPECIFICATIONS ARE COMPLIMENTARY, AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY BOTH.
3. PERFORMANCE BY THE CONSTRUCTION TEAM SHALL BE CONSISTENT WITH THE CONSTRUCTION DRAWINGS AND SPECIFICATIONS AS NECESSARY TO DELIVER THE INDICATED RESULTS OF THE DESIGN INTENT.
4. IF CONFLICTS ARISE BETWEEN DRAWINGS AND SPECIFICATIONS, NOTIFY ARCHITECT IMMEDIATELY FOR DETERMINATION BEFORE PROCEEDING, OTHERWISE THE MOST STRINGENT REQUIREMENTS SHALL GOVERN.
5. ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH ALL GOVERNING CODES, ORDINANCES, REGULATIONS AND LAWS.
6. THE DESIGN ADEQUACY AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS AND SCAFFOLDING IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
7. WHERE ANY CONFLICT OCCURS BETWEEN THE REQUIREMENTS OF LAWS, CODES, ORDINANCES, RULES AND REGULATIONS, THE MOST STRINGENT SHALL GOVERN.
8. ENACT ALL MEASURES TO PROTECT AND SAFEGUARD ALL EXISTING ELEMENTS TO REMAIN FROM BEING DAMAGED. REPLACE OR REPAIR EXISTING ELEMENTS DAMAGED BY THE EXECUTION OF THIS CONTRACT TO EQUAL OR BETTER CONDITION.
9. CUTTING, BORING, SAWCUTTING OR DRILLING THROUGH THE EXISTING OR NEW STRUCTURAL ELEMENTS SHALL NOT BE STARTED UNTIL THE DETAILS HAVE BEEN REVIEWED AND APPROVED BY THE ARCHITECT, AND STRUCTURAL ENGINEER OF RECORD.
10. VERIFY DIMENSIONS AND EXISTING CONDITIONS BEFORE COMMENCING WORK. REPORT DISCREPANCIES TO THE ARCHITECT PRIOR TO PROCEEDING WITH AFFECTED WORK.
11. REFLECTED CEILING PLAN DIMENSIONS ARE REFERENCED FROM FINISHED SURFACES UNLESS NOTED OTHERWISE. CEILING HEIGHTS ARE DIMENSIONED FROM FLOOR TO FINISHED CEILING HEIGHT.
12. DIMENSIONS NOTED AS "FIELD VERIFY" SHALL BE CHECKED AT THE SITE BY THE CONTRACTOR AND REVIEWED WITH THE ARCHITECT BEFORE INCORPORATING INTO THE WORK.
13. DO NOT SCALE DRAWING. WRITTEN DIMENSIONS TAKE PRECEDENCE. IF CLARIFICATION IS REQUIRED IN ORDER TO DETERMINE THE INTENT OF THE CONTRACT DOCUMENTS, CONTACT THE ARCHITECT.
14. NOTES OR DIMENSIONS LABELED "TYPICAL" SHALL APPLY TO SITUATIONS THAT ARE THE SAME OR SIMILAR.
15. ALL DIMENSIONS ARE TO FACE OF STUD, UNLESS NOTED OTHERWISE.
16. ALL SPACES WITH FLOOR DRAINS TO HAVE FINISHED FLOORS SLOPED TO DRAIN NOT TO EXCEED ONE IN FIFTY.
17. ALL FLOORS FINISH CHANGES SHALL OCCUR AT THE CENTERLINE OF DOORS UNLESS NOTED OTHERWISE. ALL FLOOR FINISH CHANGES SHALL HAVE THRESHOLDS OR REDUCER STRIPS.
18. COORDINATE HOUSEKEEPING PAD DIMENSIONS AND LOCATIONS WITH EQUIPMENT TO BE INSTALLED.
19. ALL DOORS IN INTERIOR GYP. BD STUD WALLS SHALL BE SET 4" OFF THE PERP. ADJ. WALL ON THE HINGE SIDE OF THE DOOR UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL CONTACT THE ARCHITECT IF ANY CONFLICTS OCCUR.
20. ALUM. THRESHOLDS TO BE SET IN FULL BED OF SEALANT AT ALL EXT. DOORS.
21. COORDINATE ROOF DRAIN LEADER LOCATIONS WITH FLOOR PLAN PRIOR TO SLAB CONSTRUCTION.
22. PROVIDE VINYL REDUCER AT ALL DISSIMILAR FLOOR MATERIALS UNLESS OTHERWISE NOTED.
23. UNLESS OTHERWISE NOTED, ALL ELECTRICAL AND MECHANICAL OPERABLE DEVICES SHALL BE MOUNTED WITH THE HIGHEST OPERABLE CONTROL AT MAX. OF 40" AFF.
24. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE DSA APPROVED DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS, A CONSTRUCTION CHANGE DOCUMENT, OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED REPAIR WORK, SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE REPAIR WORK, PER CAC, 2013, 4-317(c)

# PROJECT DATA

**PROJECT ADDRESS:**

**1820 RIMPAU AVE.**
**CORONA, CA. 92881**

**OCCUPANCY: MIXED, NON-SEPARATED; A-5, B, E, S-1, S-2**
**CONSTRUCTION TYPE: V-B**
**AUTOMATIC FIRE SPRINKLER: NONE**
**NUMBER OF STORIES: 1**
**ACTUAL SQUARE FOOTAGE: 14,057**
**ALLOWABLE SQUARE FOOTAGE: 18,000**

# DEFERRED APPROVAL ITEMS

1. **NONE**

# CODES & STANDARDS

**PARTIAL LIST OF APPLICABLE CODES**

**2022 California Administrative Code (CAC)** ..... (Part 1, Title 24, CCR)
**2022 California Building Code (CBC)** ..... (Part 2, Title 24, CCR)
**2022 California Electrical Code (CEC)** ..... (Part 3, Title 24, CCR)
**2022 California Mechanical Code (CMC)** ..... (Part 4, Title 24, CCR)
**2022 California Plumbing Code (CPC)** ..... (Part 5, Title 24, CCR)
**2022 California Energy Code (CEC)** ..... (Part 6, Title 24, CCR)
**2022 California Fire Code (CFC)** ..... (Part 9, Title 24, CCR)
**2022 California Existing Building Code (CEBC)** ..... (Part 10, Title 24, CCR)
**2022 California Green Building Standards Code (CAL Green)** ..... (Part 11, Title 24, CCR)
**2022 California Referenced Standards Code** ..... (Part 12, Title 24, CCR)
**Title 19 CCR, Public Safety, State Fire Marshall Regulations**
**2019 ASME A17.1/CSA B44-13 Safety Code For Elevators and Escalators (per 2022 CBC Part 2, Ch 35)**
Note: Cal/OSHA Elevator Unit enforces CCR Title 8 and uses the 2004 ASME A17.1 by adoption

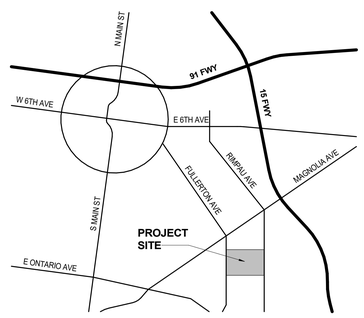
**PARTIAL LIST OF APPLICABLE STANDARDS**

**NFPA 13** Automatic Fire Sprinkler Systems ..... (2022 Edition)
**NFPA 14** Standpipe and Hose Systems ..... (2019 Edition)
**NFPA 17** Dry Chemical Extinguishing Systems ..... (2021 Edition)
**NFPA 17a** Wet Chemical Extinguishing Systems ..... (2021 Edition)
**NFPA 20** Stationary Pumps for Fire Protection ..... (2019 Edition)
**NFPA 24** Standard for the Installation of Private Fire Service Mains & their Appurtenances (CA amended) ..... (2019 Edition)
***NFPA 25** Standard for Inspection, Testing and Maintenance of Water-Based Fire Protection Systems (CA amended)* ..... *(2013 Edition)*
**NFPA 72** National Fire Alarm & Signaling Code (CA amended) ..... (2022 Edition)
**NFPA 80** Fire Doors and Other Opening Protectives ..... (2019 Edition)
**NFPA 92** Standard for Smoke Control Systems ..... (2018 Edition)
**NFPA 253** Critical Radiant Flux of Floor Covering Systems ..... (2019 Edition)
**NFPA 2001** Clean Agent Fire Extinguishing Systems (CA amended) ..... (2018 Edition)
**ICC 300** ICC Stds on Bleachers, Folding and Telescoping Seating and Grand stands ..... (2017 Edition)
**UL 300** Fire Testing of Fire Extinguishing Sys for Protection of Restaurant Cooking Areas ..... 2005 (R2010)
**UL 464** Audible Signal Appliances ..... (2003 Edition)
**UL 521** Heat Detectors for Fire Protective Signaling Systems ..... (1999 Edition)

For a complete list of applicable NFPA standards refer to 2022 CBC (SFM) Chapter 35 and California Fire Code Chapter 80

See California Building Code Chapter 35 for State of California amendments to the NFPA Standards.

# VICINITY MAP




# SHEET NUMBERING

A2.1

**SEQUENCE (.1 - .99.....etc.)**

**DISCIPLINE**
G - GENERAL
C - CIVIL
L - LANDSCAPE
D - DEMO
A - ARCHITECTURAL
S - STRUCTURAL
M - MECHANICAL
E - ELECTRICAL
P - PLUMBING
T - TECHNOLOGY
FA - FIRE ALARM
AQ - AQUATICS

**SHEET DISCIPLINE TYPE**
0 - SITE PLANS & DETAILS
1 - FLOOR PLANS
2 - REFLECTED CEILING PLANS & DETAILS
3 - ROOF PLANS & DETAILS
4 - BUILDING SECTIONS
5 - BUILDING EXTERIOR ELEVATIONS
6 - ENLARGED INTERIOR PLANS & ELEVATIONS
7 - DETAILS
8 - PARTITION TYPES & DETAILS
9 - WINDOWS, DOORS, FRAME ELEVATIONS, SCHEDULES & DETAILS
10 - FINISH PLANS, SCHEDULES & DETAILS

# DRAWING INDEX

## GENERAL

| | |
|---|---|
| G0.0 | COVER SHEET |
| G0.1 | INDEX, ABBREVIATIONS, CENVENTIONS, MAP & NOTES |
| G0.2 | ACCESSIBILITY SITE PLAN |
| G0.3 | CODE ANALYSIS - SITE PLAN |
| G0.4 | BUILDING EXIT ANALYSIS & SIGN - BLDG A & B |
| G0.5 | FIRE ACCESS SITE PLAN |
| G0.6 | ACCESSIBILITY DETAILS |
| G0.7 | SIGNAGE DETAILS |

SHEET COUNT: 8 SHEETS

## CIVIL *

| | |
|---|---|
| C0.00 | SITE IMPROVEMENT SHEET |
| C1.00 | DEMOLITION PLAN |
| C2.01 | GRADING AND DRAINAGE PLAN |
| C3.00 | DETAIL SHEET |
| C2.02 | GRADING AND DRAINAGE PLAN |
| C2.03 | GRADING AND DRAINAGE PLAN |
| C2.04 | GRADING AND DRAINAGE PLAN |
| C3.01 | DETAIL SHEET |
| C5.00 | DETAIL SHEET |
| C4.00 | SITE UTILITY PLAN |

SHEET COUNT: 10 SHEETS

## LANDSCAPE

| | |
|---|---|
| L-1 | LANDSCAPE SITE PLAN |
| L-2 | ENLARGED LANDSCAPE SITE PLANS |

SHEET COUNT: 2 SHEETS

## ARCHITECTURAL

| | |
|---|---|
| A0.1 | SITE PLAN - ENLARGED AREA VIEW |
| A0.2 | SITE PLAN - ENLARGED PAVING PLAN |
| A0.3 | SITE PLAN - DROP OFF & PROMENADE AREA |
| A0.4 | SITE PLAN - PARKING AREAS'S & DETAILS |
| A0.5 | SITE PLAN - EXTERIOR GATES & FENCE |
| A0.6 | POOL ENCLOSURE FENCING & DETAILS |
| A0.7 | SITE PLAN - ENLARGED BLEACHER'S PLAN & SECTION |
| A0.8 | SITE PLAN - RAMP & STAIR DETAILS |
| A0.9 | GATES AT BLEACHER |
| A1.0 | SLAB PLAN - BLDG'S A & B |
| A1.1 | FLOOR PLAN - OVERALL BLDG'S A & B |
| A2.1 | RCP - OVERALL BLDG'S A & B |
| A2.2 | RCP - DETAILS |
| A3.1 | ROOF PLAN - OVERALL BLDG'S A & B |
| A3.2 | ROOF DETAILS |
| A4.1 | SECTIONS - BLDG A |
| A4.2 | SECTIONS - BLDG B |
| A5.1 | EXTERIOR ELEV. - SITE |
| A5.2 | EXTERIOR POOL DECK ELEV. |
| A5.3 | EXTERIOR ELEV. - BLDG A |
| A5.4 | EXTERIOR ELEV. - BLDG A |
| A5.5 | EXTERIOR ELEV. - BLDG B |
| A6.1 | ENLARGED BLDG "A" FLOOR PLAN - BOY'S RESTROOM & LOCKERS |
| A6.2 | ENLARGED BLDG "A" FLOOR PLAN - GIRL'S LOCKERS/RESTROOMS |
| A6.3 | ENLARGED BLDG "A" FLOOR PLAN - COACH'S & CUSTODIAN'S ROOM |
| A6.4 | ENLARGED BLDG "A" FLOOR PLANS - MISC. |
| A6.5 | ENLARGED BLDG "A" FLOOR PLAN - STORAGE |
| A6.6 | ENLARGED BLDG "B" FLOOR PLAN - RESTROOMS & CONCESSIONS |
| A7.1 | DETAILS - CEILING, SOFFIT & WALL CONNECTION |
| A7.2 | DETAILS - CASEWORK & LOCKERS |
| A8.1 | WALL TYPES |
| A8.2 | WALL SECTIONS |
| A8.3 | WALL SECTIONS |
| A8.4 | WALL SECTIONS |
| A8.5 | WALL SECTIONS |
| A8.6 | WALL - DETAILS |
| A9.1 | DOORS & WINDOWS - FRAMES, ELEVATIONS & SCHEDULES |
| A9.2 | DOORS & WINDOWS - DETAILS |
| A9.3 | DOORS & WINDOWS - DETAILS |
| A10.1 | FINISH PLAN - BLDG'S A & B |
| A10.2 | FINISH SCHEDULES - BLDG'S A & B |

SHEET COUNT: 41 SHEETS

## STRUCTURAL *

| | |
|---|---|
| S0.1 | GENERAL NOTES AND TYPICAL DETAILS |
| S0.2 | FOUNDATION AND TYPICAL DETAILS |
| S0.3 | TYPICAL STEEL AND MISC. DETAILS |
| S0.4 | METAL STUD AND MISC. DETAILS |
| S0.5 | METAL STUD, METAL DECK AND MISC. DETAILS |
| S0.6 | TYP. MASONRY AND MISC. DETAILS |
| S0.7 | TYP. MASONRY AND MISC. DETAILS |
| S0.8 | MECHANICAL AND MISC. DETAILS |
| SA1.1 | BUILDING A FOUNDATION/ROOF FRAMING PLAN |
| SA2.1 | SECTIONS |
| SA2.2 | SECTIONS |
| SA2.3 | SECTIONS |
| SA2.4 | SECTIONS |
| SA3.1 | WALL ELEVATIONS |
| SA3.2 | WALL ELEVATIONS |
| SB1.1 | BUILDING B FOUNDATION/ROOF FRAMING PLAN |
| SB2.1 | SECTIONS |
| SB2.2 | SECTIONS |
| SB3.1 | WALL ELEVATIONS |

SHEET COUNT: 19 SHEETS

## MECHANICAL

| | |
|---|---|
| M0.0 | MECHANICAL SHEET INDEX, LEGEND AND NOTES |
| M0.1 | MECHANICAL TITLE 24 |
| M0.2 | MECHANICAL TITLE 24 |
| M0.3 | MECHANICAL TITLE 24 |
| M0.4 | MECHANICAL TITLE 24 |
| M0.5 | MECHANICAL TITLE 24 |
| M2.1 | MECHANICAL FLOOR PLANS - BLDG "A" & BLDG "B" |
| M4.1 | MECHANICAL ROOF PLANS - BLDG "A" & BLDG "B" |
| M5.1 | MECHANICAL SCHEDULES |
| M5.2 | MECHANICAL SCHEDULES |
| M6.1 | MECHANICAL DETAILS |
| M6.2 | MECHANICAL DETAILS |
| M7.1 | MECHANICAL CONTROLS |

SHEET COUNT: 13 SHEETS

## ELECTRICAL

| | |
|---|---|
| E0.0 | ELECTRICAL SYMBOLS, NOTES, AND ABBREVIATIONS |
| E0.1 | ELECTRICAL TITLE 24 |
| E0.2 | ELECTRICAL TITLE 24 |
| E0.3 | ELECTRICAL TITLE 24 |
| E1.1 | ELECTRICAL SITE PLAN |
| E2.1 | ELECTRICAL FLOOR PLANS - BLDG "A" & BLDG "B" |
| E3.1 | LIGHTING PLANS - BLDG "A" & BLDG "B" |
| E4.1 | ELECTRICAL ROOF PLANS - BLDG "A" & BLDG "B" |
| E5.1 | ELECTRICAL SINGLE LINE DIAGRAM |
| E6.1 | ELECTRICAL SCHEDULES |
| E7.1 | ELECTRICAL DETAILS |

SHEET COUNT: 11 SHEETS

## PLUMBING

| | |
|---|---|
| P0.0 | PLUMBING SHEET INDEX, LEGEND AND NOTES |
| P1.2 | PLUMBING ENLARGED SITE PLAN |
| P2.1 | OVERALL PLUMBING FLOOR PLANS - BLDG "A" & BLDG "B" - WASTE & VENT |
| P2.2 | OVERALL PLUMBING FLOOR PLANS - BLDG "A" & BLDG "B" - WATER & GAS |
| P3.1 | ENLARGED PLUMBING PLANS - BLDG "A" |
| P3.2 | ENLARGED PLUMBING PLANS - BLDG "B" |
| P4.1 | OVERALL PLUMBING ROOF PLANS - BLDG "A" & BLDG "B" |
| P5.1 | PLUMBING SCHEDULES |
| P6.1 | PLUMBING DETAILS |
| P6.2 | PLUMBING DETAILS |

SHEET COUNT: 10 SHEETS

## TECHNOLOGY

| | |
|---|---|
| T0.0 | TECHNOLOGY SYMBOLS, NOTES & ABBREVIATIONS |
| T1.1 | TECHNOLOGY SITE PLAN |
| T1.2 | TECHNOLOGY ENLARGED SITE PLAN |
| T2.1 | OVERALL TECHNOLOGY FLOOR PLANS - BLDG "A" & BLDG "B" |
| T6.1 | TECHNOLOGY DETAILS |

SHEET COUNT: 5 SHEETS

## FIRE ALARM

| | |
|---|---|
| FA0.0 | FIRE ALARM SCHEDULE, NOTES AND ABBREVIATIONS |
| FA1.1 | FIRE ALARM SITE PLAN |
| FA2.1 | OVERALL FIRE ALARM FLOOR PLANS - BLDG "A" & BLDG "B" |
| FA6.1 | FIRE ALARM DETAILS, PARTIAL RISER DIAGRAM AND CALCULATIONS |

SHEET COUNT: 4 SHEETS

## AQUATICS*

| | |
|---|---|
| AQ.0 | SWIMMING POOL DECK PLAN |
| AQ.1 | SWIMMING POOL LAYOUT PLAN (SWIMMING) |
| AQ.2 | SWIMMING POOL LAYOUT PLAN (WATERPOLO) |
| AQ.3 | SWIMMING POOL PIPING PLAN |
| AQ.4 | SWIMMING POOL UNDERWATER LIGHT / TIMING SYSTEM PLAN |
| AQ.5 | SWIMMING POOL SECTIONS |
| AQ.6 | DETAILS |
| AQ.7 | DETAILS |
| AQ.8 | DETAILS |
| AQ.9 | DETAILS |
| AQ.10 | DETAILS |
| AQ.11 | DETAILS |
| AQ.12 | DETAILS |
| AQ.13 | MECHANICAL ROOM LAYOUT PLAN |
| AQ.14 | MECHANICAL ROOM SECTIONS |
| AQ.15 | DETAILS |
| AQ.16 | DETAILS |
| AQ.17 | DETAILS |
| AQ.18 | DETAILS |
| AQ.19 | DETAILS |
| AQ.20 | DETAILS |

SHEET COUNT: 21 SHEETS

## BLEACHER *

| | |
|---|---|
| B1 | COVER PAGE |
| B2 | GENERAL NOTES |
| B3 | CONCRETE LAYOUT |
| B4 | UNDERSTRUCTURE LAYOUT |
| B5 | ENLARGED EXIT UNDERSTRUCTURE LAYOUTS |
| B6 | SECTION VIEWS |
| B7 | SIDE VIEWS |
| B8 | SEATING LAYOUT |
| B9 | EXIT ELEVATIONS |
| B10 | SEAT BRACKET LAYOUT |
| B11 | PLANK DETAILS |
| B12 | EXIT DETAILS |
| B13 | EXIT DETAILS |
| B14 | GRANDSTAND DETAILS |
| B15 | GRANDSTAND DETAILS |

SHEET COUNT: 15 SHEETS

## SPORTS LIGHTING *

| | |
|---|---|
| MT1 | NOTES, FOUNDATION DETAIL |
| MS1 | POLE DETAIL |
| MS2 | POLE DETAIL |
| MD1 | ATTACHMENT DETAILS |
| MD2 | ATTACHMENT DETAILS |
| MD3 | ATTACHMENT DETAILS |

SHEET COUNT: 6 SHEETS

**TOTAL SHEET COUNT: 165 SHEETS**

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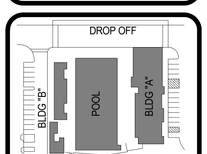
**CENTENNIAL HIGH SCHOOL AQUATICS CENTER**

**PROJECT ADDRESS:**
1820 RIMPAU AVE.
CORONA, CA 92881

**CONSTRUCTION DOCUMENTS**
FILE #: 33-H4 DSA APPLICATION #: 04-122208




Consultant

Architect

LICENSED ARCHITECT
David T. Blain
No. C-36551
FOR PLAN CHECK ONLY
EXPIRATION DATE 11-30-2024
STATE OF CALIFORNIA

CLIENT
CNUSD

| DATE | PROJECT NUMBER |
|---|---|
| 5/5/2023 | 220306 |

REVISIONS

| No. | Description | Date |
|---|---|---|
| | | |

**CONSTRUCTION DOCUMENTS**

**INDEX, ABBREVIATIONS, CENVENTIONS, MAP & NOTES**

**G0.1**

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G0.2 - ACCESSIBILITY SITE PLAN

0" 1"

## PATH OF TRAVEL

**DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT:**
THE POT INDENTIFIED IN THESE CONSTRUCTION DOCUMENTS IS COMPLIANT WITH THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE ACCESSIBILITY PROVISIONS FOR **PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS.** AS PART OF THE DESIGN OF THIS PROJECT, THE POT WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WERE DETERMINED TO BE NONCOMPLIANT 1) HAVE BEEN IDENTIFIED AND 2) THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECTS WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NONCOMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE SO INDICATED IN THESE CONSTRUCTION DOCUMENTS. DURING CONSTRUCTION, IF POT ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CODE COMPLIANT ARE FOUND TO BE NONCONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THEY SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS A PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.

## PARKING CALCULATION

**(E) PARKING LOT 1 (STUDENT):**
STANDARD STALLS ..... 186
VAN ACCESSIBLE STALLS ..... 1
STD ACCESSIBLE STALLS ..... 5

TOTAL P-LOT 1 STALLS ..... **192**

**(E) PARKING LOT 2 (STAFF / VISITOR):**
STANDARD STALLS ..... 245
VAN ACCESSIBLE STALLS ..... 2
STD ACCESSIBLE STALLS ..... 5

TOTAL P-LOT 2 STALLS ..... **252**

**(E) PARKING LOT 3 (NOT IN CONTRACT):**
STANDARD STALLS ..... 14
VAN ACCESSIBLE STALLS ..... 1
STD ACCESSIBLE STALLS ..... 1

TOTAL P-LOT 2 STALLS ..... **16**

**(E) PARKING LOT 4 (NOT IN CONTRACT):**
STANDARD STALLS ..... 44
VAN ACCESSIBLE STALLS ..... 1
STD ACCESSIBLE STALLS ..... 1

TOTAL P-LOT 3 STALLS ..... **46**

**TOTAL STALLS ON SITE** ..... **558**

## DSA CERTIFICATION LIST

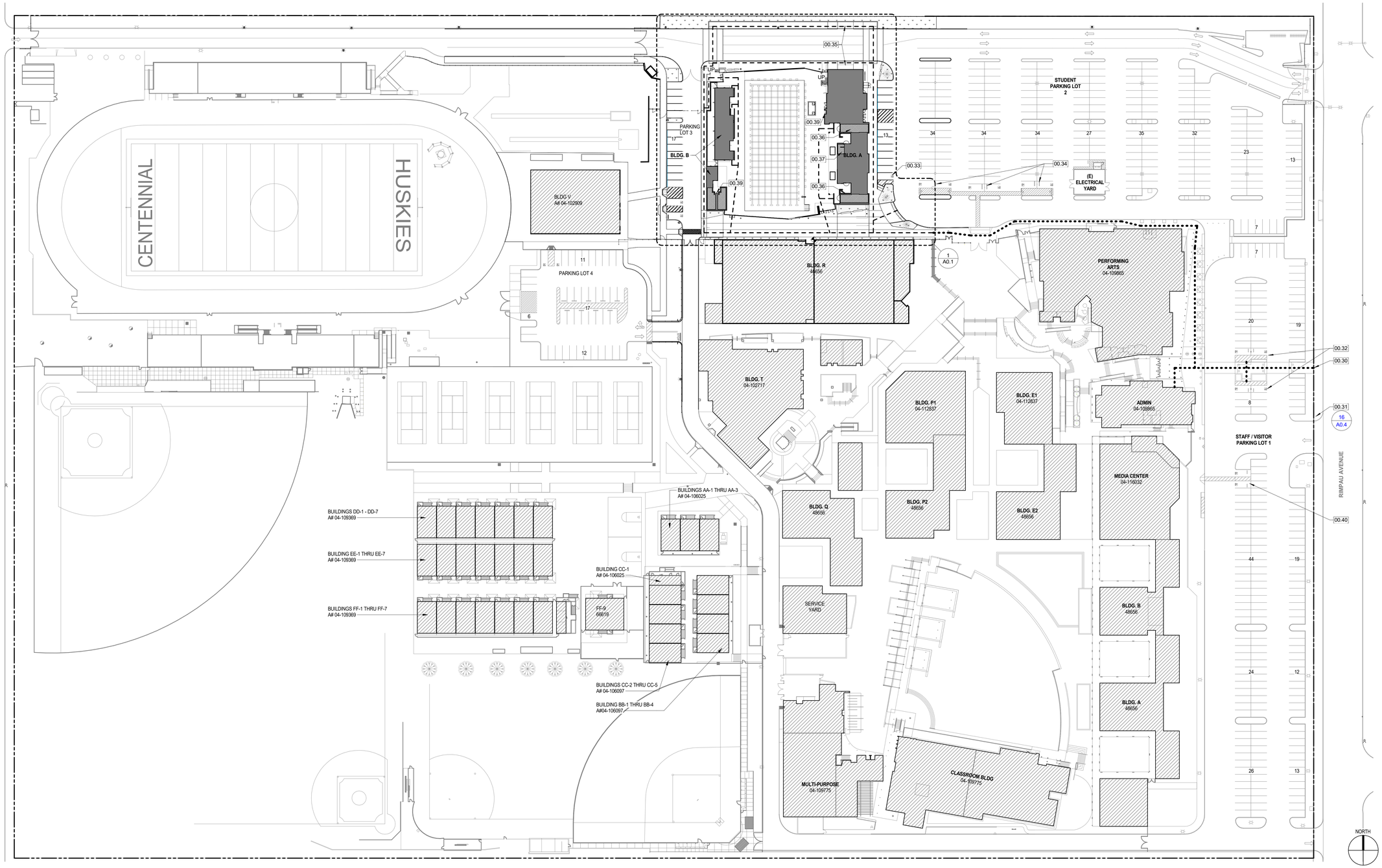
1. THE FOLLOWING PROJECT... **A# 04- =109865** CLOSED WITH DSA CERTIFICATION ON 1/29/15
2. THE FOLLOWING PROJECT... **A# 04-112837** CLOSED WITH DSA CERTIFICATION ON 3/19/15
3. THE FOLLOWING PROJECT... **A# 04-109775** CLOSED WITH DSA CERTIFICATION ON 1/2/13
4. THE FOLLOWING PROJECT... **A# 04-102717** CLOSED WITH DSA CERTIFICATION ON 12/31/03
5. THE FOLLOWING PROJECT... **A# 04-116032** CLOSED WITH DSA CERTIFICATION ON 3/6/19
6. THE FOLLOWING PROJECT... **A# 04-109369** CLOSED WITH DSA CERTIFICATION ON 11/25/09
7. THE FOLLOWING PROJECT... **A# 04-106025** CLOSED WITH DSA CERTIFICATION ON 12/8/06
8. THE FOLLOWING PROJECT... **A# 04-106097** CLOSED WITH DSA CERTIFICATION ON 10/26/04
9. THE FOLLOWING PROJECT **A# 04-121957** IS APPROVED BUT NOT YET CONSTRUCTED. DSA CERTIFICATION OF THIS PROJECT **A# 04-122208** SHALL BE CONTINGENT UPON DSA CERTIFICATION OF PROJECT **A# 04-112957**

## ACCESSIBILITY LEGEND

- PATH OF TRAVEL
- (E) AOR VERIFIED PATH OF TRAVEL
- PROPERTY LINE
- EXISTING BUILDING NOT IN SCOPE
- NEW BUILDING
- ACCESSIBLE TOILET ROOMS

## ACCESSIBILITY KEYED NOTES

| # | Description |
|---|---|
| 00.31 | SITE ACCESS SIGN |
| 00.32 | (E) ACCESSIBLE PARKING PER A#04-116032 |
| 00.33 | ACCESSIBLE PARKING TO BE PROVIDED AS PART OF THIS CONTRACT |
| 00.34 | ACCESSIBLE PARKING TO BE PROVIDED BY OTHERS PER A#04-121957 |
| 00.35 | ACCESSIBLE LOADING ZONE TO BE PROVIDED AS PART OF THIS CONTRACT |
| 00.36 | ACCESSIBLE STUDENT TOILETS TO BE PROVIDED AS PART OF THIS CONTRACT |
| 00.37 | ACCESSIBLE STAFF TOILET TO BE PROVIDED AS PART OF THIS CONTRACT |
| 00.39 | ACCESSIBLE DRINKING FOUNTAIN TO BE PROVIDED AS PART OF THIS CONTRACT |
| 00.40 | |




OVERALL SITE PLAN
1" = 50'-0"
1

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PBK


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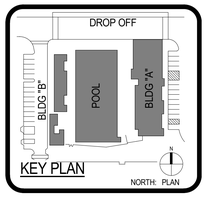
# CENTENNIAL HIGH SCHOOL AQUATICS CENTER

PROJECT ADDRESS:
1820 RIMPAU AVE.
CORONA, CA 92881

CONSTRUCTION DOCUMENTS
FILE #: 33-H4 DSA APPLICATION #: 04-122208




Consultant

Architect

LICENSED ARCHITECT
David T. Blair
No. C-26454
REN. 11-30-2024
STATE OF CALIFORNIA

FOR PLAN CHECK ONLY

CLIENT
CNUSD

| DATE | PROJECT NUMBER |
|---|---|
| 5/5/2023 | 220306 |

REVISIONS

| No. | Description | Date |
|---|---|---|
| | | |

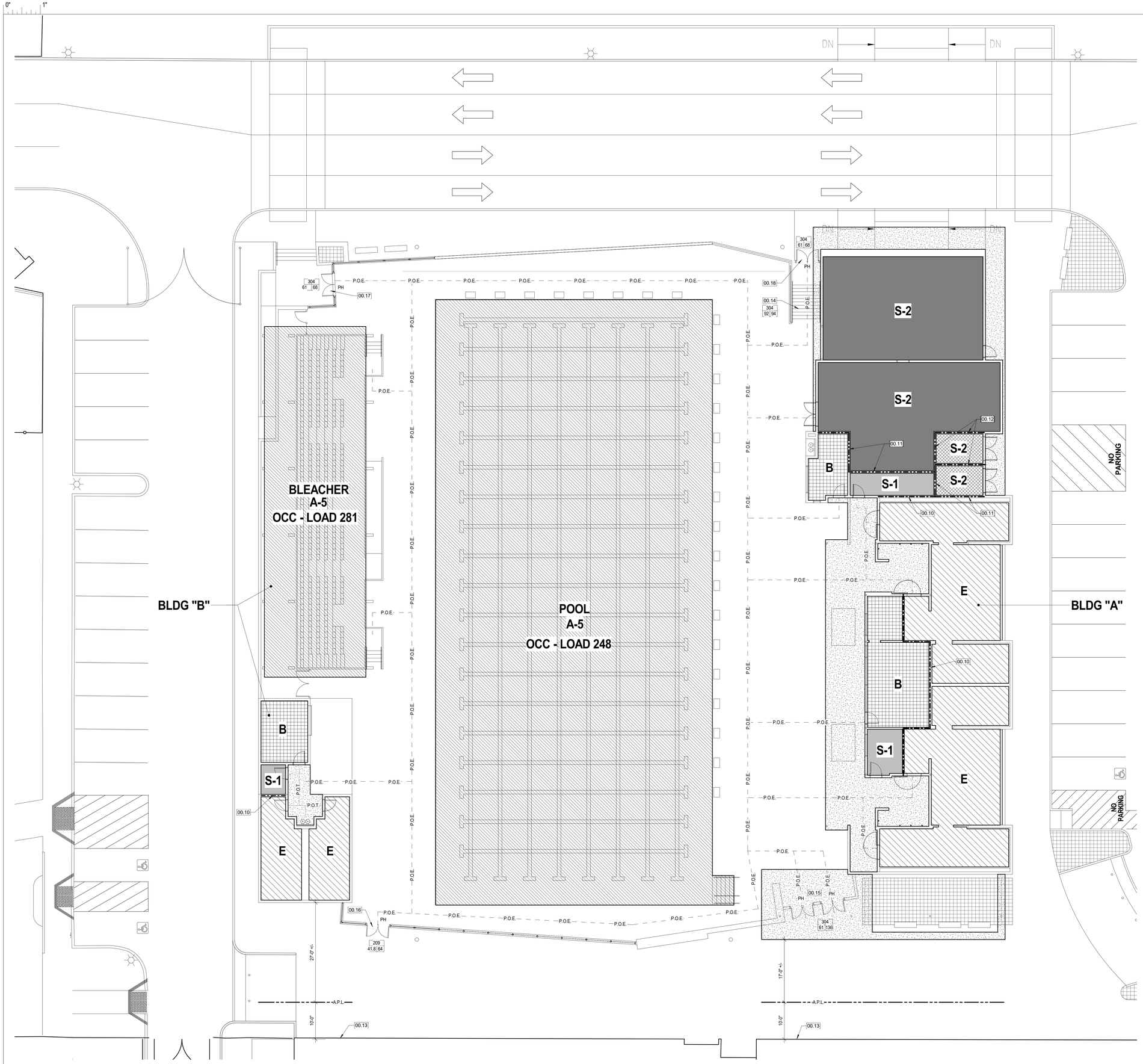
CONSTRUCTION DOCUMENTS

## ACCESSIBILITY SITE PLAN

G0.2

G0.3 - CODE ANALYSIS - SITE PLAN

0" 1"




# CONSTRUCTION KEYED NOTES

| # | Description |
|---|---|
| 00.10 | ONE HOUR OCCUPANCY SEPARATION WALL PER 2022 CBC TABLE 508.4 |
| 00.11 | TWO HOUR OCCUPANCY SEPARATION WALL PER 2022 CBC TABLE 508.4 |
| 00.12 | ONE HOUR CONTROL AREA FIRE BARRIER PER 2022 CFC TABLE 500.8.3.2 |
| 00.13 | EXISTING GYMNASIUM BUILDING |
| 00.14 | EXTERIOR EXIT STAIRWAY PER 2022 CBC 1027 |
| 00.15 | EXIT #1 |
| 00.16 | EXIT #2 |
| 00.17 | EXIT #3 |
| 00.18 | EXIT #4 |

# CODE ANALYSIS & LEGEND

**BUILDING 'A':** LOCKER ROOMS / OFFICES / RR / POOL EQUIP / STORAGE

OCCUPANCY: *MIXED, NON-SEPARATED... B, E, S-1, S-2*
- B: ..... **784** SF
- E: ..... **2,740** SF
- S-1: ..... **286** SF
- S-2: ..... **2,813** SF
- COVERED AREA: ..... **3,358** SF

CONSTRUCTION TYPE: ..... **VB**
FLOOR AREA: ..... **9,981 SF** *(INCLUDES COVERED AREAS)*
TABULAR ALLOWANCE: ... **9,000 SF** *(OCC. B & S-1 GOVERN)*
FRONTAGE INCREASE: 50% *(EAST & NORTH SIDES)*; AREA FACTOR = **0.25**
FRONTAGE CALC: 9,000 + (9,000 x 0.25) PER 2022 CBC 506.2.2
TOTAL ALLOWABLE: ..... **11,250 SF**
NUMBER OF STORIES: ..... **1**
BUILDING HEIGHT: ..... **20'-0"** *(40'-0" ALLOWED)*
SPRINKLERED: ..... **NO**

**BUILDING 'B':** CONCESSIONS / RR / BLEACHER

OCCUPANCY: *MIXED, NON-SEPARATED... A-5, B, E, S-1*
- A-5: ..... **2,612** SF
- B: ..... **252** SF
- E: ..... **675** SF
- S-1: ..... **64** SF
- COVERED AREA: ..... **115** SF

CONSTRUCTION TYPE: ..... **VB**
FLOOR AREA: ..... **3,718 SF** *(INCLUDES COVERED AREAS)*
TABULAR ALLOWANCE: ... **9,000 SF** *(OCC. B GOVERNS)*
FRONTAGE INCREASE: ..... **NOT REQUIRED**
TOTAL ALLOWABLE: ..... **9,000 SF**
NUMBER OF STORIES: ..... **1**
BUILDING HEIGHT: ..... **21'-0"** *(SHADE CANOPY; 40'-0" ALLOWED)*
SPRINKLERED: ..... **NO**

- A-5 — POOL & BLEACHERS: A-5 OCCUPANCY
- B — OFFICES / CONCESSIONS: B OCCUPANCY
- E — LOCKER ROOMS / RR: E OCCUPANCY
- S-1 — MODERATE HAZARD STORAGE: S-1 OCCUPANCY
- S-2 — LOW HAZARD STORAGE: S-2 OCCUPANCY
- S-2 — LOW HAZARD "CONTROLLED AREA": S-2 OCCUPANCY
- COVERED AREA
- 1 HOUR WALL
- 2 HOUR WALL
- ASSUMED PROPERTY LINE
- P.O.E. — PATH OF EGRESS
- 20 — TOTAL OCCUPANTS EXITING FROM ROOM
- 100 / 6.6 | 36 — COMBINED EXIT LOAD; PROVIDED EXIT WIDTH (IN INCHES); REQUIRED EXIT WIDTH (IN INCHES)
- PH — PANIC HARDWARE

**OCCUPANT LOADS:**

| | | |
|---|---|---|
| BUILDING 'A': | 95 | *REFER TO DRAWING* |
| BUILDING 'B': | 3 | *REFER TO DRAWING* |
| BLEACHER: | 281 | *REFER TO DRAWING* |
| POOL: | 248 | *PER CALCULATION BELOW* |
| POOL DECK: | 588 | *PER CALCULATION BELOW* |
| TOTAL: | **1,215** | |

2 G0.6 | 4 G0.6 | - --

**LOAD CALCULATIONS:**
POOL..... 12,375 SF / 50 = 248 *(PER 2022 CBC TABLE 1004.5)*
POOL DECK..... 8,818 SF / 15 = 588 *(PER 2022 CBC TABLE 1004.5)*

NUMBER OF EXITS REQUIRED = **4** *(PER 2022 CBC 1006.2.1.1)*

OCCUPANT LOAD AT EACH EXIT... 1,215 / 4 = **304**

MIN REQUIRED CLEAR EGRESS WIDTH AT EXITS 1, 2 & 3... 304 x .2 = **61"** *(PER 2022 CBC 1005.3.2)*

MIN REQUIRED CLEAR EGRESS WIDTH AT EXIT 4 (STAIR)... 304 x .3 = **92"** *(PER 2022 CBC 1005.3.1)*

**PHOTOVOLTAIC [PV] & BATTERY STORAGE CALCULATIONS:**

CLIMATE ZONE..... 10 *(per California Energy Commission Climate Zone Map)*
PV FACTOR..... 1.63 *(per 2022 CEC, Table 140.10-A)*
CONDITIONED FLOOR AREA [CFA]..... 2,098
PV CALC... (2,098 x 1.63)/1,000 = ..... 3.420 KWpvdc
PV NOT REQUIRED PER 2022 CEC 140.10-A, EXCEPTION #2 *(less than 4kWdc)*

BATTERY STORAGE NOT REQUIRED PER 2022 CEC 140.10-C, EXCEPTION #3 *(less than 5,000 sf CFA)*

**SHADE TREES:**
NOT REQUIRED. PARKING LOT PV ARRAY (DSA APPROVED A# 121957), BUILT IN CONJUCTION WITH THIS PROJECT SHALL MEET THE SHADING REQUIREMENT IN LIEU OF SHADE TREES PER 2022 CAL GREEN 5.106.12.3, EXCEPTION #1

**ELECTRIC VEHICLE [EV] CHARGING:**
NOT REQUIRED WHERE ADDITIONAL PARKING IS NOT PROVIDED. THIS PROJECT INCLUDES A NET REDUCTION OF PARKING STALLS FROM 288 TO 269. SEE DRAWING A0.1 FOR PARKING CALC.

SITE PLAN - CODE ANALYSIS
1" = 10'-0"
2


PBK

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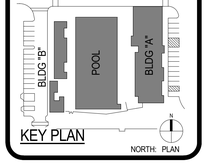
RANCHO CUCAMONGA
8163 Rochester Avenue, Suite 100
Rancho Cucamonga
California 91730
P 909-987-0909


**CENTENNIAL HIGH SCHOOL AQUATICS CENTER**

**PROJECT ADDRESS:**
1820 RIMPAU AVE.
CORONA, CA 92881

**CONSTRUCTION DOCUMENTS** DSA APPLICATION #: **04-122208**
FILE #: **33-H4**



KEY PLAN
NORTH: PLAN

Consultant

Architect
LICENSED ARCHITECT David T. Blank No. C-26454 FOR PLAN CHECK ONLY 11-30-23 STATE OF CALIFORNIA

CLIENT
CNUSD

| DATE | PROJECT NUMBER |
|---|---|
| 5/5/2023 | 220306 |

REVISIONS

| No. | Description | Date |
|---|---|---|
| | | |

**CONSTRUCTION DOCUMENTS**

**CODE ANALYSIS - SITE PLAN**

**G0.3**

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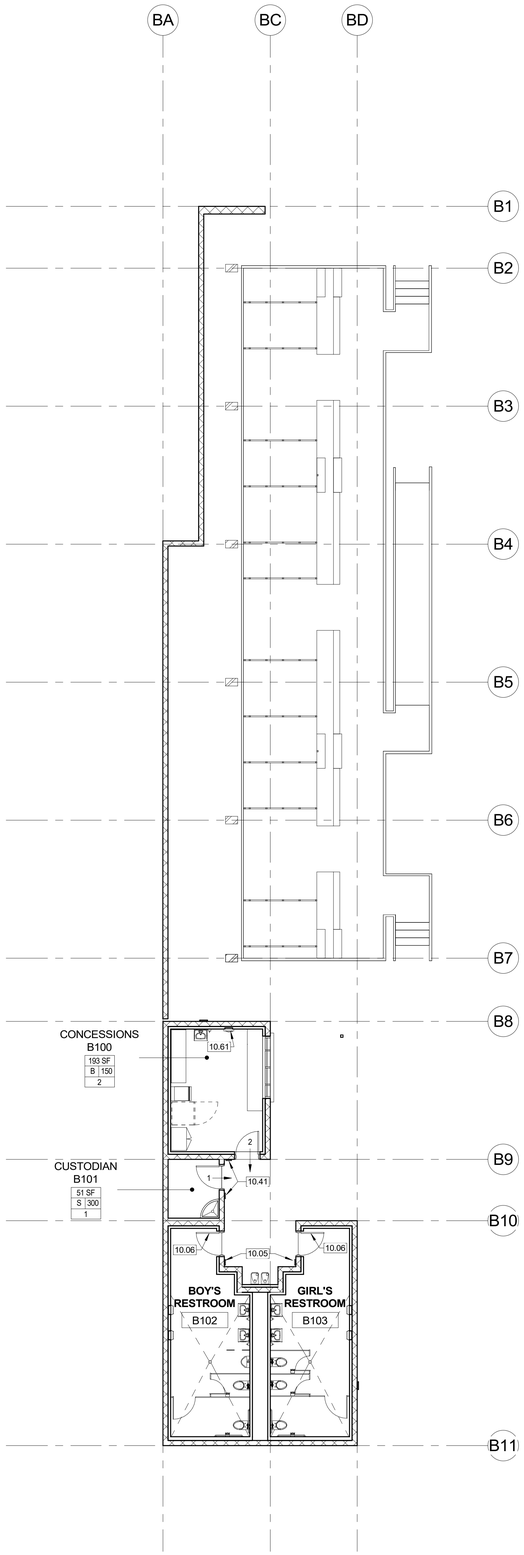
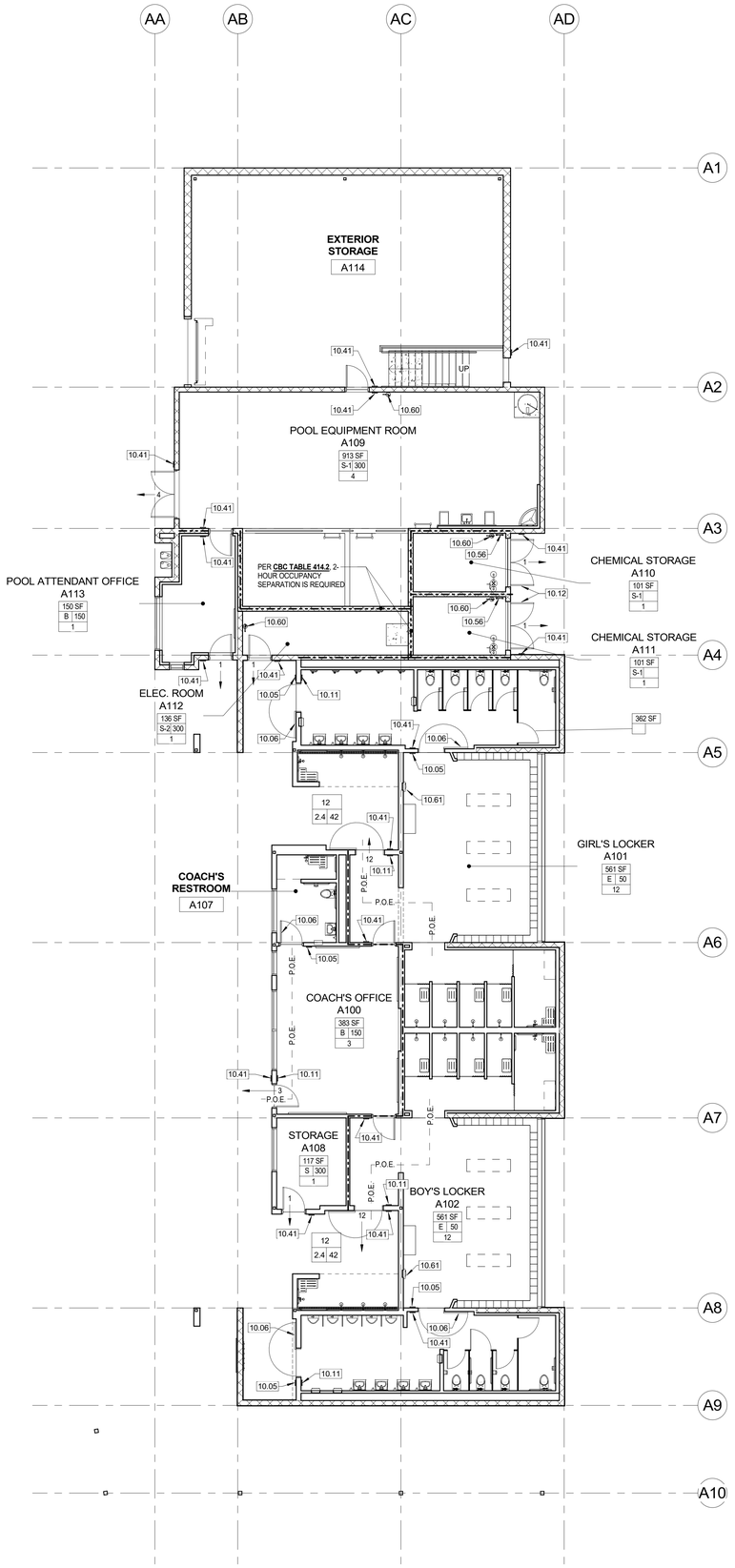
G0.4 - BUILDING EXIT ANALYSIS & SIGN - BLDG A & B

0" 1"




NORTH

BUILDING 'B' CODE AND SIGNAGE PLAN 4
1/8" = 1'-0"




NORTH

BUILDING 'A' CODE AND SIGNAGE PLAN 2
1/8" = 1'-0"

## CONSTRUCTION KEYED NOTES

| # | Description |
|---|---|
| 10.05 | RESTROOM WALL SIGNAGE |
| 10.06 | RESTROOM DOOR SIGNAGE |
| 10.11 | TACTILE EXIT SIGNAGE |
| 10.12 | HAZARDOUS INFORMATION SIGNAGE, RE: AQ DWGS. |
| 10.41 | WALL MOUNTED ROOM IDENTIFICATION SIGNAGE |
| 10.56 | SIGNAGE PER DETAIL L1/G0.9 |
| 10.60 | SURFACE MOUNTED FIRE EXTINGUISHER |
| 10.61 | SEMI-RECESSED FIRE EXTINGUISHER CABINET |

## WALL LEGEND

- 8" CONCETE MASONRY UNIT WALL (CMU WALL) - ALL EXTERIOR SURFACES TO BE SEALED
- METAL FRAMED NON-BEARING WALL
- 1 HOUR RATED WALL
- 2 HOUR RATED WALL

PBK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California 91730
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**CENTENNIAL HIGH SCHOOL AQUATICS CENTER**

**PROJECT ADDRESS:**
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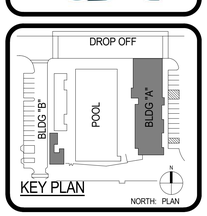
**CONSTRUCTION DOCUMENTS**
FILE #: **33-H4** DSA APPLICATION #: **04-122208**




Consultant

Architect

LICENSED ARCHITECT
David T. Blair
No. C-26464
REN. 11-30-2024
STATE OF CALIFORNIA

FOR PLAN CHECK ONLY

CLIENT
CNUSD

| DATE | PROJECT NUMBER |
|---|---|
| 5/5/2023 | 220306 |

REVISIONS

| No. | Description | Date |
|---|---|---|
| | | |

**CONSTRUCTION DOCUMENTS**

# BUILDING EXIT ANALYSIS & SIGN - BLDG A & B

# G0.4

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G0.5 - FIRE ACCESS SITE PLAN

0" 1"

# DSA 810

## FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

Division of the State Architect (DSA) documents referenced within this publication are available on the DSA Forms or DSA Publications webpages.

To facilitate the Division of the State Architect's (DSA) fire and life safety plan review of project site conditions, DSA requires the design professional to provide the following information at time of project submittal for projects consisting of construction of a new campus, construction of new building(s), additions to existing buildings, and for site alternate design means for fire department emergency vehicle access, and fire suppression water supply.

Information associated with compliance items 1 through 3 below is to be provided for all project types indicated above. Information associated with items 4 through 7 is to be completed when an alternate means is utilized. Acknowledgement by the school district and signature from the Local Fire Authority (LFA) is only required when an alternate design means is being requested.

The Project Information and Fire & Life Safety Information sections are to be completed for all projects and Imaged onto the fire access site plan. When an alternate design/means is proposed, all sections on pages 1 and 2 are to be completed and imaged on the fire access site plan.

For additional information refer to the instructions at the end of this form and DSA Policy *PL 09-01: Fire Flow for Buildings*.

| PROJECT INFORMATION | |
|---|---|
| School District/Owner: | Corona-Norco Unified School District |
| Project Name/School: | Centennial High School Aquatics Center |
| Project Address: | 1820 Rimpau Ave, Corona, CA 92881 |

| FIRE & LIFE SAFETY INFORMATION | | | | |
|---|---|---|---|---|
| 1. | Has a fire hydrant flow test been performed within the past 12 months? *(If yes, provide a copy of the test data.)* | Yes ☑ | | No ☐ |
| 2. | Was fire hydrant water flow test performed as part of this LFA review? | Yes ☑ | | No ☐ |
| 3. | Is the project located within a designated fire hazard severity zone (FHSZ) as established by Cal-Fire? *(If yes, indicate FHSZ classification below.)* | Yes ☐ | | No ☑ |
| | Refer to the following website for FHSZ locations: http://egis.fire.ca.gov/FHSZ/ | Moderate ☐ | High ☐ | Very High ☐ |
| | Wildland Interface Area (WIFA) *(If any designations are checked, project design must meet the requirements of CBC Chapter 7A.)* | | | WIFA ☐ |

DGS DSA 810 (revised 12/29/20) DEPARTMENT OF GENERAL SERVICES Page 1 of 4
DIVISION OF THE STATE ARCHITECT STATE OF CALIFORNIA

DSA 810
FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

| CONDITION MEANS AND METHODS RESOLUTION | | ALTERNATE ACCEPTED | | | |
|---|---|---|---|---|---|
| | | Yes | No | N/A | N/R |
| 4. | Emergency vehicle access roadways do not meet CFC requirements. | | | ✓ | |
| 4a. | **Acceptable Alternate:** Emergency vehicle and personnel access as proposed by the project architect is acceptable for providing fire suppression and protection of life and property. | | | | |
| 5. | **Fire Hydrants:** Number and spacing does not meet CFC requirements. | | | ✓ | |
| 5a. | **Acceptable Alternate:** Number of fire hydrants and spacing as proposed by the project architect is acceptable for fire suppression and protection of life and property. | | | | |
| 6. | **Fire Hydrants:** Water flow and pressure are less than CFC minimum. | | | ✓ | |
| 6a. | **Acceptable Alternate:** The available flow and pressure is acceptable for providing fire suppression and protection of life and property. | | | | |
| 7. | Location of fire department connection(s) serving fire sprinkler systems or standpipe systems does not meet CFC requirements. | | | ✓ | |
| 7a. | **Acceptable Alternate:** The location of fire department connection serving the fire sprinkler system and/or standpipe system is acceptable for providing fire suppression and protection of life and property. | | | | |

**School District Acceptance of Acceptable Design Alternates**

By signing this form, the school district acknowledges and accepts the proposed design as an alternative to California Building Code (CBC) and California Fire Code (CFC) minimum requirements, as indicated by one or more of the conditions indicated at items 4a, 5a, 6a or 7a, for providing fire and life safety protection of life and property.

Accepted by: Jacquelyn Roberts Title: Construction Director I, Facilities

Signature: [signature] Date: 03/30/23

| LOCAL FIRE AUTHORITY (LFA) INFORMATION | | | |
|---|---|---|---|
| LFA Agency Name: | Corona Fire Department | | |
| LFA Review Official: | Lindi Schmidt | | |
| Title: | Fire Marshal | Work Phone: | 951-736-2414 |
| Work Email: | Cyndi.Schmidt@coronaca.gov | | |

LFA Reviewer's Signature: [signature] Date: 4-12-23

DGS DSA 810 (revised 12/29/20) DEPARTMENT OF GENERAL SERVICES Page 2 of 4
DIVISION OF THE STATE ARCHITECT STATE OF CALIFORNIA

**SoCal Flow Testing**
**3741 Rose Dr, Yorba Linda, CA 92886**
**714-261-5716**
**email: info@socalflowtest.com**

**Hydrant Flow Test Report**

Project **CNUSD Centennial HS** Test date **11/30/22**
Address **1820 Rimpau Ave** Test time **08:15**
City **Corona** State **CA** File no.

Test hydrant location **Center-south of north parking lot** Hydr # Elev (ft +/-) **Grade**
Flow hydrant location **West fire lane, by tennis courts** Hydr # Elev (ft +/-) **Grade**

Static Pressure **108** PSI Report Date **11/30/22**

| Outlet | C-value | Diam | Pitot | | Volume | |
|---|---|---|---|---|---|---|
| A | 0.9 | 2.0 | **0** | PSI | **0** | GPM |
| B | 0.9 | 2.5 | **62** | PSI | **1321** | GPM |
| C | 0.9 | 3.0 | **0** | PSI | **0** | GPM |
| D | 0.83 | 4.0 | **0** | PSI | **0** | GPM |

Residual Pressure **105** PSI at an observed volume of **1321** GPM

Projected Pressure **20** PSI calculates to a volume of **8191** GPM

Although the results are accurate for the date and time given, they may not accurately reflect higher or lower readings which vary due to seasonal conditions and time of day.
Per NFPA 24-10, Table C.4.10.1(a), note 1, $Q=29.84 \times d(d^2)^{0.5}$
Per NFPA 24-10, Paragraph C.4.10.1.2, $Q_r = Q_t \times (h_r/h_t)^{0.54}$

Test by: Hildebrandt

Witness Jacquelyn Roberts
Cell: (951) 230-3267

Client Jacquelyn Roberts
Corona-Norco USD
2820 Clark Ave
Norco, CA 92860

cc: Jacquelyn.Roberts@cnusd.k12.ca.us
Oliver.Nicolas@pbk.com

Symbols
= Test hydrant
= Flow hydrant

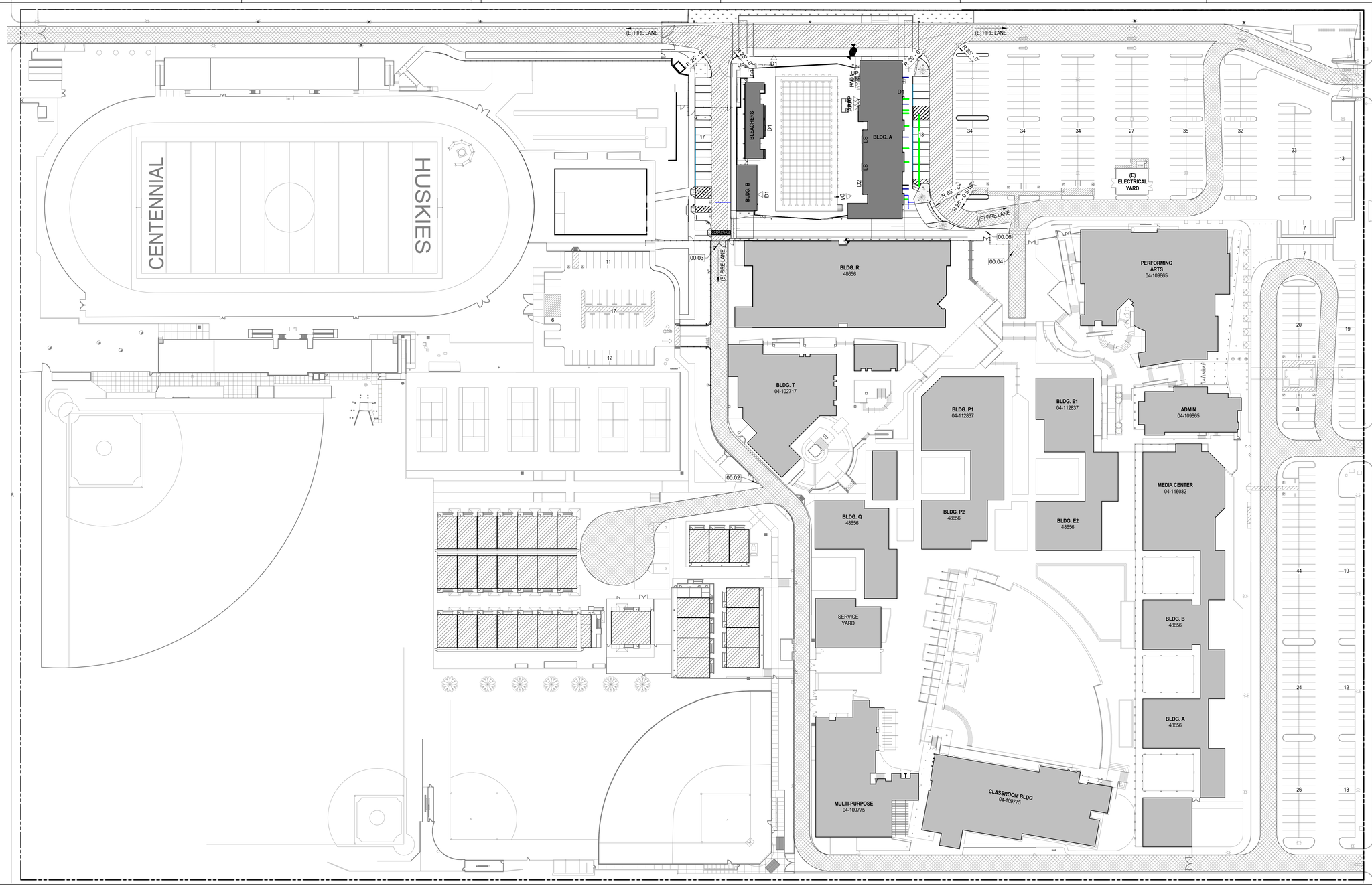



## FIRE ACCESS LEGEND

- PROPERTY LINE
- (E) BUILDING NOT IN SCOPE
- PROPOSED BUILDING
- (E) FIRE ACCESS LANE
- FIRE ACCESS LANE

## FIRE ACCESS KEYED NOTES

| # | Description |
|---|---|
| 00.02 | (E) FIRE HYDRANT |
| 00.03 | (E) ACCESS GATE W/ KNOX BOX |
| 00.04 | (E) ROLLING GATE |
| 00.06 | (E) FIRE HYDRANT PER STD 416, FLOW TESTED |




SITE PLAN - FIRE ACCESS 1
1" = 50'-0"

FILE PATH: Z:\Projects\...
5/3/2023 3:20:01 PM

PBK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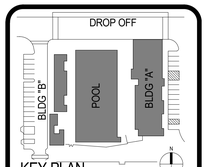
PBK.com
RANCHO CUCAMONGA
8163 Rochester Avenue, Suite 100
Rancho Cucamonga
California 91730
P 909-987-0909


**CENTENNIAL HIGH SCHOOL**
**AQUATICS CENTER**

**PROJECT ADDRESS:**
1820 RIMPAU AVE.
CORONA, CA 92881

**CONSTRUCTION DOCUMENTS**
FILE #: **33-H4** DSA APPLICATION #: **04-122208**

DROP OFF




KEY PLAN NORTH: PLAN

Consultant

Architect

LICENSED ARCHITECT
David T. Blann
No. C-36464
EXP. 11-30-202_
STATE OF CALIFORNIA

FOR PLAN CHECK ONLY

CLIENT
CNUSD

| DATE | PROJECT NUMBER |
|---|---|
| 5/5/2023 | 220306 |

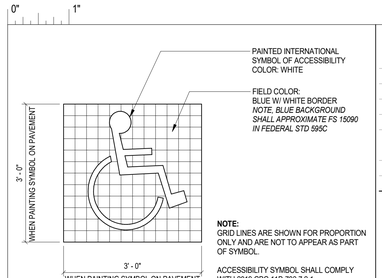
REVISIONS

| No. | Description | Date |
|---|---|---|
| | | |

**CONSTRUCTION DOCUMENTS**

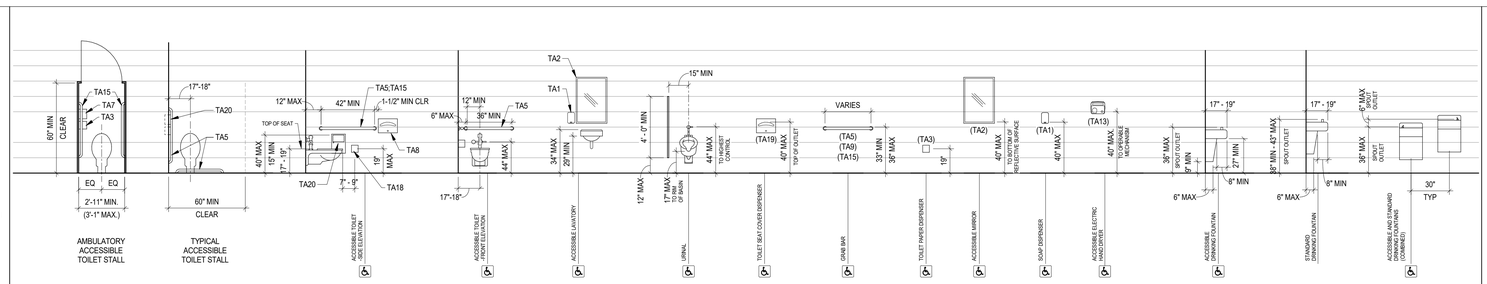
**FIRE ACCESS SITE PLAN**

**G0.5**




321723.01-S

ISA 30
3/4" = 1'-0"

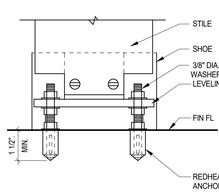



ACCESSIBILITY STANDARDS 26
1/4" = 1'-0"

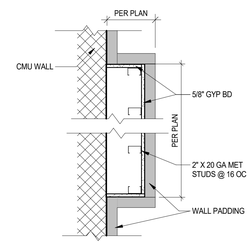
| LABEL | DESCRIPTION | REMARKS |
|---|---|---|
| TA1 | SOAP DISPENSER | |
| TA2 | MIRROR (U.N.O) | |
| TA3 | TOILET PAPER DISPENSER | JUMBO ROLL @ STAFF |
| TA5 | GRAB BARS AT TYPICAL ACCESSIBLE TOILET STALLS | |
| TA9 | GRAB BARS AT ACCESSIBLE SHOWER | |
| TA10 | FOLDING SHOWER BENCH | |
| TA11 | CLOTHES HOOK | STUDENT SHOWER ONLY |
| TA13 | ELECTRIC HAND DRYER, SEMI-RECESSED | STUDENT RRS ONLY |
| TA14 | PAPER TOWEL DISPENSER/TRASH COMBO UNIT | G.N. RR ONLY |
| TA15 | GRAB BAR AT AMBULATORY ACCESSIBLE TOILET STALL | |
| TA17 | TRASH RECEPTACLE (RECESSED) | |
| TA17A | 12" DIA TRASH CAN (OWNER FURNISHED) | |
| TA18 | NOT USED | |
| TA19 | TOILET SEAT COVER DISPENSER | |
| TA20 | SANITARY NAPKIN DISPOSAL (RECESSED) | |

**NOTES:**
1. DIMENSIONS INDICATED BY AN ASTERISK SHALL BE 17" MIN. - 18" MAX. FROM CENTERLINE OF FIXTURE TO FINISH FACE OF WALL.
2. FROM MINIMUM REQUIRED ACCESSIBLE CLEARANCES, STANDARDS AND TOILET ACCESSORY MOUNTING HEIGHTS, REF DETAIL

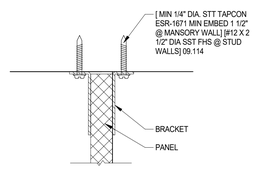
TOILET ACCESSORIES 25
1/4" = 1'-0"



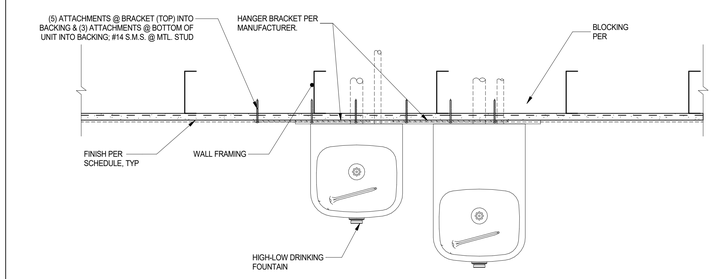

TOILET PARTITION TO FLOOR 23
1/2" = 1'-0"



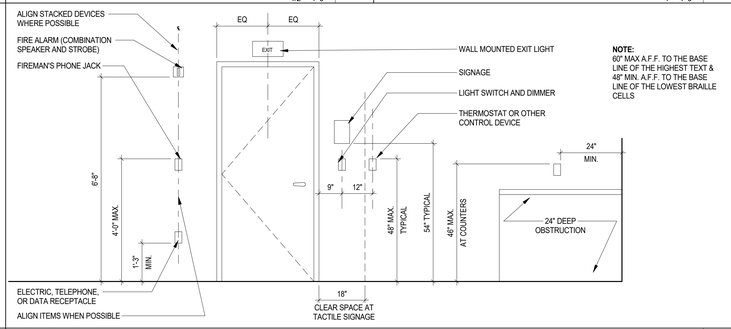

PLASTER FURRING DETAIL 22
1" = 1'-0"



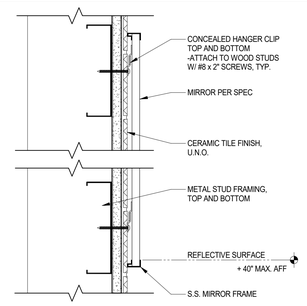

URINAL SCREEN TO WALL 21
1/2" = 1'-0"




DRINKING FOUNTAIN ATTACHMENT DETAIL 19
1 1/2" = 1'-0"

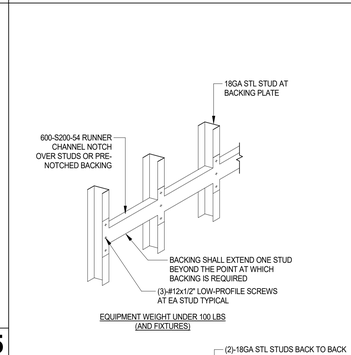



MISC. MOUNTING HEIGHTS 16
1/2" = 1'-0"

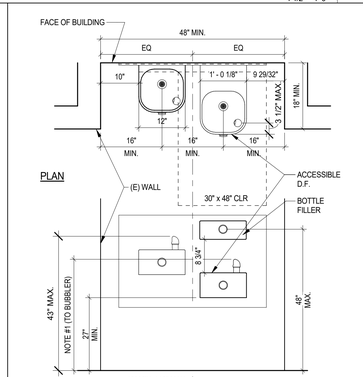



102813.02-S Rev 10/17

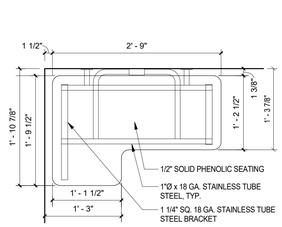
TOILET ROOM MIRROR MOUNTING DETAIL 15
3" = 1'-0"



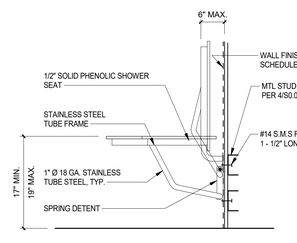

TYP WALL BACKING 8
1/4" = 1'-0"




ACCESSIBLE EXTERIOR D.F. 7
3/4" = 1'-0"

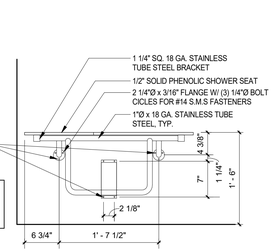



PLAN VIEW



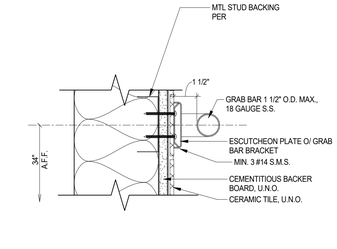

SIDE VIEW

STRUCTUAL STRENGTH OF FOLDING BENCH SHALL COMPLY WITH CBC 11B-610.4



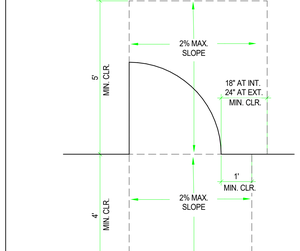

FRONT VIEW

ACCESSIBLE FOLDING BENCH 4
1" = 1'-0"

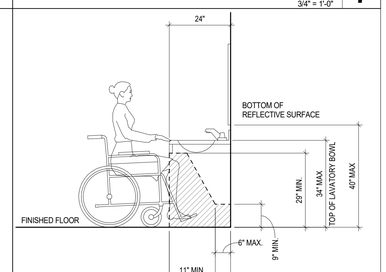



101400.06-S Rev 09/16

GRAB BAR MOUNT 3
3" = 1'-0"




DOOR CLEARANCE DETAIL 2
1/2" = 1'-0"




ACCESSIBLE LAVATORY 1
1/2" = 1'-0"

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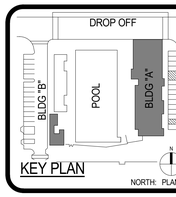
PBK
ARCHITECT PBK Architects, Inc.
PBK.com
RANCHO CUCAMONGA
8163 Rochester Avenue, Suite 100
Rancho Cucamonga
California 91730
P 909-987-0909

**CENTENNIAL HIGH SCHOOL AQUATICS CENTER**

PROJECT ADDRESS:
1820 RIMPAU AVE.
CORONA, CA 92881

CONSTRUCTION DOCUMENTS
FILE #: 33-H4 DSA APPLICATION #: 04-122208






Consultant

Architect
LICENSED ARCHITECT David T. Bilin No. C-26454 REN 11-30-2024 STATE OF CALIFORNIA
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CLIENT
CNUSD

| DATE | PROJECT NUMBER |
|---|---|
| 5/5/2023 | 220306 |

REVISIONS

| No. | Description | Date |
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CONSTRUCTION DOCUMENTS

ACCESSIBILITY DETAILS

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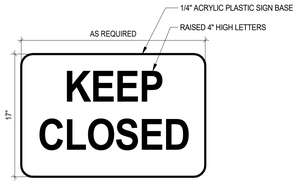
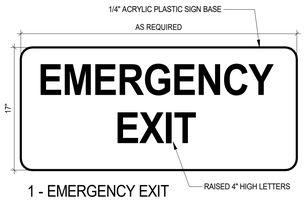
0" 1"

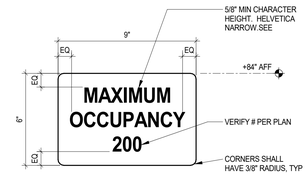



2 - POOL ENCLOSED



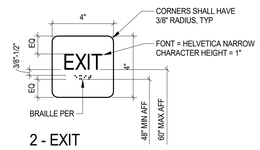

1 - EMERGENCY EXIT

## K POOL ENCLOSURE

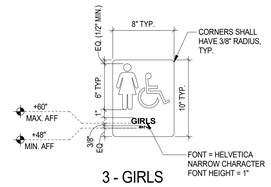



NOTES:
1. SIGN MATERIAL SHALL BE 1/4" THICK PLASTIC
2. MOUNT W/ VANDAL RESISTANT FASTENERS

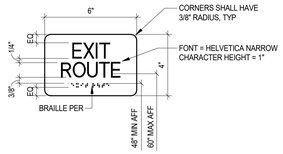
## G MAXIMUM OCCUPANCY SIGN



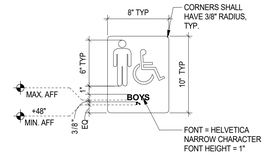

2 - EXIT




3 - GIRLS

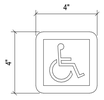


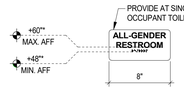

1 - EXIT ROUTE




2 - BOYS

## F TACTILE EXIT SIGN

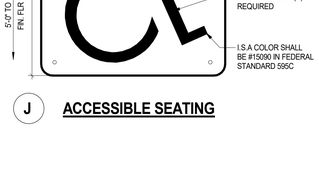



1 - GENDER NEUTRAL RESTROOM

## B WALL SIGNAGE

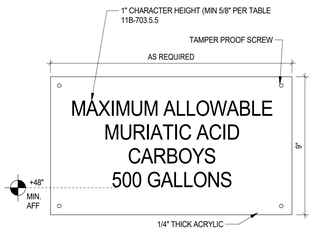
60" MAX A.F.F. TO THE BASE LINE OF THE HIGHEST TEXT & 48" MIN. A.F.F. TO THE BASE LINE OF THE LOWEST BRAILLE CELLS



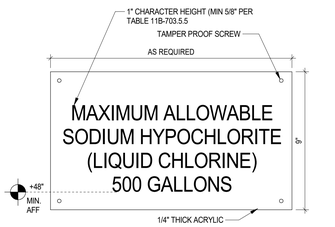

## M FIRE ALARM SIGN




## J ACCESSIBLE SEATING




2 - MURIATIC ACID CARBOYS

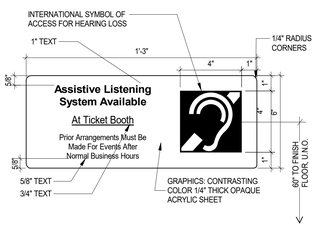



1 - LIQUID CHLORINE

## L CHEMICAL ROOM SIGN

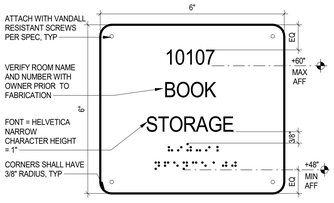



## I ACCESSIBLE ROUTE SIGN




NOTES:
1. SEE PLANS FOR LOCATIONS.
2. PROVIDE MINIMUM OF 2 DEVICES (PER CBC 11B-219 - MUST BE 4% OF TOTAL # OF SEATS AND NOT LESS THAN 2) 3. 25% MIN. OF RECEIVERS PROVIDED, BUT NO FEWER THAN (2) SHALL BE HEARING-AID COMPATIBLE IN ACCORDANCE WITH CBC SECTION 11B-706.3.

## H ASSISTIVE LISTENING SIGN




NOTE:
1.60" MAX A.F.F. TO THE BASE LINE OF THE HIGHEST TEXT & 48" MIN. A.F.F. TO THE BASE LINE OF THE LOWEST BRAILLE CELLS

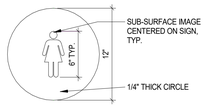
2. VERIFY ROOM NAME AND NUMBER WITH OWNER PRIOR TO FABRICATION

## C ROOM ID SIGN

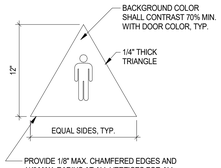



**NOTE:** SIGNAGE TO BE MOUNTED ON WALL, DOOR OR GLASS AS NECESSARY PER DESIGN. IF MOUNTED ON GLASS, APPLY BLANK SIGN TO THE OPPOSITE SIDE.

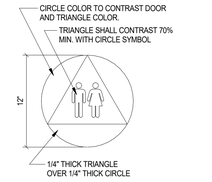
## D ROOM NUMBER SIGN




3 - GIRLS



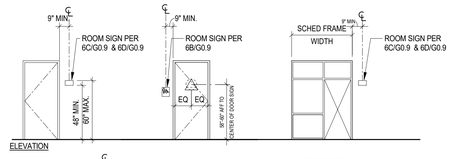

2 - BOYS

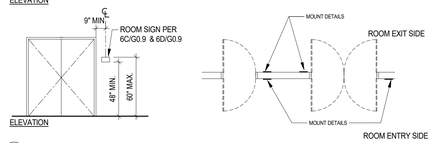



1 - GENDER NEUTRAL

GEOMETRIC SYMBOLS AT ENTRANCES TO TOILET AND BATHING ROOMS SHALL BE MOUNTED AT 58" MIN AND 60" MAX ABOVE THE FINISH FLOOR OR GROUND SURFACE MEASURED FROM THE CENTERLINE OF THE SYMBOL. WHERE A DOOR IS PROVIDED THE SYMBOL SHALL BE MOUNTED WITHIN 1 INCH OF THE VERTICAL CENTERLINE OF THE DOOR

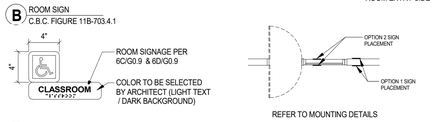
## A RESTROOM DOOR SIGN




## B ROOM SIGN

C.B.C. FIGURE 11B-703.4.1




## A BUILDING ENTRY ROOM SIGN

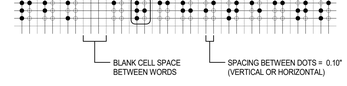
NOTES:

1. FOR CHARACTER TYPE & BRAILLE, AND
2. SIGN MATERIAL SHALL BE PAINTED, 1/8" THICK ES PLASTIC USING GRAPHIC PROCESS SAND-CARVED W/ 3/32" RAISED GRAPHIC AND LETTERS. PROVIDE MECHANICAL MOUNTING W/ COUNTERSUNK, VANDAL RESISTANT #8 FASTENERS. MOUNT ON GLAZING WITH CLEAR SILICONE ADHESIVE AND A SECOND SIGN OR BLANK ALIGNED ON THE OTHER SIDE OF GLAZING TO MASK THE ADHESIVE.
3. PROVIDE ONE SIGN WHERE INDICATED ON PLANS OR SCHEDULE.
4. WHERE A TACTILE SIGN IS PROVIDED AT A DOOR, THE SIGN SHALL BE LOCATED ALONGSIDE THE DOOR AT THE LATCH SIDE. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH ONE ACTIVE LEAF, THE SIGN SHALL BE LOCATED ON THE INACTIVE LEAF. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH TWO ACTIVE LEAFS, THE SIGN SHALL BE LOCATED TO THE RIGHT OF THE RIGHT HAND DOOR. WHERE THERE IS NO WALL SPACE AT THE LATCH SIDE OF A SINGLE DOOR OR AT THE RIGHT SIDE OF DOUBLE DOORS, SIGNS SHALL BE LOCATED ON THE NEAREST ADJACENT WALL. SIGNS CONTAINING TACTILE CHARACTERS SHALL BE LOCATED SO THAT A CLEAR FLOOR SPACE OF 18 INCHES MINIMUM BY 18 INCHES MINIMUM, CENTERED ON THE TACTILE CHARACTERS, IS PROVIDED BEYOND THE ARC OF ANY DOOR SWING BETWEEN THE CLOSED POSITION AND 4 DEGREE OPEN POSITION. WHERE PROVIDED, SIGNS IDENTIFYING PERMANENT ROOMS AND SPACES SHALL BE LOCATED AT THE ENTRANCE TO, AND OUTSIDE OF THE ROOM OR SPACE. WHERE PROVIDED, SIGNS IDENTIFYING EXITS SHALL BE LOCATED AT THE EXIT DOOR WHEN APPROACHED IN THE DIRECTION OF EGRESS TRAVEL.
5. 60" MAX A.F.F. TO THE BASE LINE OF THE HIGHEST TEXT & 48" MIN. A.F.F. TO THE BASE LINE OF THE LOWEST BRAILLE CELLS

## ROOM ID SIGN 1 1/2" = 1'-0" 20

**BRAILLE REQUIREMENTS PER 2016 CBC 11B-703.3:**

5. CONTRACTED CALIFORNIA GRADE 2 BRAILLE SHALL BE USED WHEREVER BRAILLE IS REQUIRED
6. BRAILLE DOTS SHALL HAVE A DOMED OR ROUNDED SHAPE
7. DOT BASE DIAMETER = 0.059 TO 0.063 INCHES
8. DOT HEIGHT = 0.025 TO 0.037 INCHES
9. SPACING BETWEEN DOTS AND CELLS PER BELOW...




## BRAILLE STANDARDS 6" = 1'-0" 14

CHARACTER REQUIREMENTS:

**A. CHARACTER REQUIREMENTS FOR ALL SIGNS PER 2019 CBC 11B-703:**

1. 3 CHARACTERS SHALL BE UPPERCASE.
2. CHARACTERS SHALL BE SANS SERIF (ARIAL FONT). CHARTERS SHALL NOT BE ITALLIC, OBLIQUE, SCRIPT, HIGHLY DECORATIVE, OR OF OTHER UNUSUAL FORMS.
3. CHARACTER SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 60 PERCENT MINIMUM AND 110 PERCENT MAXIMUM OF THE HEIGHT OF THE UPPERCASE LETTER "I".
4. SPACING BETWEEN THE BASELINES OF SEPARATE LINES OF RAISED CHARACTERS WITHIN A MESSAGE SHALL BE 135 PERCENT MINIMUM AND 170 PERCENT MAXIMUM OF THE CHARACTER HEIGHT.
5. TEXT SHALL BE IN HORIZONTAL FORMAT.
6. CHARACTERS AND THEIR BACKGROUND SHALL HAVE A NON-GLARE FINISH AND CONTRAST WITH ONE ANOTHER

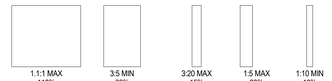
**B. RAISED CHARACTER REQUIREMENTS FOR SIGNS WITH BRAILLE PER 2019 CBC 11B-703.2:**

1. RAISED CHARACTERS SHALL COMPLY WITH REQUIREMENTS NOTED IN PARAGRAPH 'A' ABOVE
2. RAISED CHARACTERS SHALL BE 1/32 INCH MIN ABOVE BACKGROUND.
3. RAISED CHARACTER HEIGHT MEASURED VERTICALLY FROM THE BASELINE OF THE CHARACTER SHALL BE 5/8 INCH MINIMUM AND 2 INCHES MAXIMUM BASED ON THE HEIGHT OF THE UPPERCASE LETTER 'I'.
4. STROKE THICKNESS OF THE UPPERCASE LETTER "I" SHALL BE 10 PERCENT MINIMUM AND 15 PERCENT MAXIMUM OF THE HEIGHT OF THE CHARACTER.
5. CHARACTER SPACING BETWEEN INDIVIDUAL RAISED LETTERS SHALL BE 1/8 INCH MINIMUM AND FOUR (4) TIMES THE RAISED CHARACTER STROKE WIDTH MAXIMUM.
6. ALL EDGES ON GEOMETRIC SYMBOLS SHALL BE EASED OR ROUNDED AT 1/16 INCH MINIMUM. VERTICES SHALL BE RADIUSED BETWEEN 1/8" INCH MINIMUM AND 1/4 INCH MAXIMUM.

**C. VISUAL CHARACTER REQUIREMENTS FOR SIGNS WITHOUT BRAILLE PER 2019 CBC 11B-703.5:**

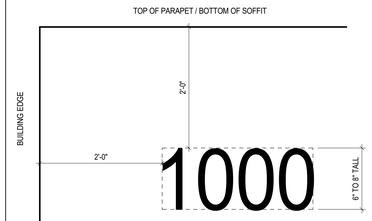
1. VISUAL CHARACTERS SHALL COMPLY WITH REQUIREMENTS NOTED IN PARAGRAPH 'A' ABOVE
2. MINIMUM CHARACTER HEIGHT SHALL CONFORM TO 2019 CBC TABLE 11B-703.5.5 BUT IN NO CASE SHALL BE LESS THAN 5/8 INCH.
3. HEIGHT FROM FINISH FLOOR SHALL BE NO LESS THAN 40 INCHES.
4. STROKE THICKNESS OF THE UPPERCASE LETTER "I" SHALL BE 10 PERCENT MINIMUM AND 20 PERCENT MAXIMUM OF THE HEIGHT OF THE CHARACTER.
5. SPACING BETWEEN INDIVIDUAL CHARACTERS SHALL BE 10 PERCENT MINIMUM AND 35 PERCENT MAXIMUM OF CHARACTER HEIGHT.

**CHARACTER AND STROKE WIDTH TO HEIGHT PROPORTIONS.**



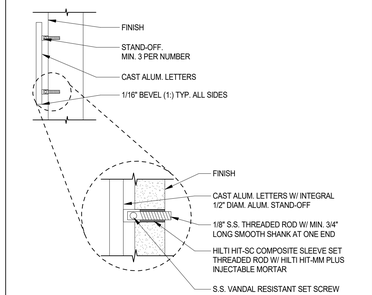

## CHARACTER REQUIREMENTS 1" = 1'-0" 2

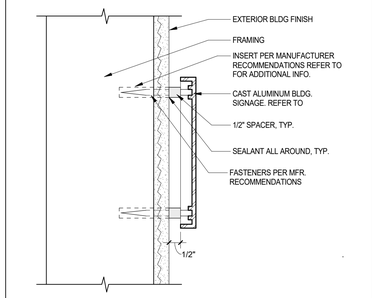
## EXTERIOR BLDG SIGNAGE 1" = 1'-0" 25




**NOTE:**
- EXTERIOR NUMBERS TO BE INSTALLED ON BUILDINGS 1000, 2000, 3000, 4000.
- EXISTING LETTERS ON THE BUILDINGS TO BE REMOVED AND REPLACED WITH 12" CAST ALUMINUM NUMBERS, MANUFACTURED BY ANDCO. INDUSTRIES CORP, OR EQUAL.
- FONT TO BE HELVETICA MEDIUM, FUTURA444 OR RIBBON 555, 556 OR 557.
- FINISH SHALL BE TYPE HANODIC BLACK. FASTEN TO WALL WITH 4-TAMPER PROOF ROUND HEAD SCREWS, ONE AT EACH CORNER OF SIGN.
- PROVIDE PLASTIC ANCHORS
- REFER TO & & FOR ADDITIONAL ATTACHMENT INFO.

## EXTERIOR BLDG SIGNAGE ATTACH. 3" = 1'-0" 19

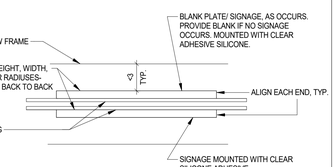


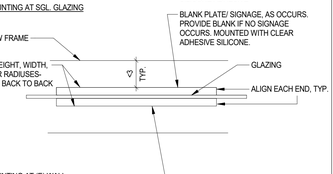

## EXTERIOR BLDG SIGNAGE-SECTION 3" = 1'-0" 13

NOTE:
PROVIDE SPACES AS NEEDED SO SIGNAGE IS WITHIN 3" OF WINDOW FRAME

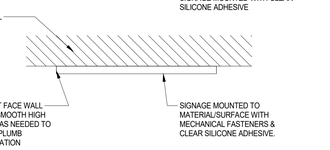
MOUNTING AT DBL. GLAZING




MOUNTING AT SGL. GLAZING




MOUNTING AT (E) WALL




## ROOM ID SIGNAGE 3" = 1'-0" 1

PBK
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RANCHO CUCAMONGA
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Rancho Cucamonga
California 91730
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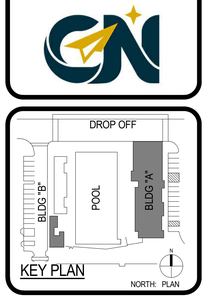
**CENTENNIAL HIGH SCHOOL AQUATICS CENTER**

**PROJECT ADDRESS:** 1820 RIMPAU AVE. CORONA, CA 92881

**CONSTRUCTION DOCUMENTS** FILE #: 33-H4 DSA APPLICATION #: 04-122208




Consultant

Architect

LICENSED ARCHITECT David T. Blair No. C-26464 REN. 11-30-2024 STATE OF CALIFORNIA

FOR PLAN CHECK ONLY

CLIENT
CNUSD

| DATE | PROJECT NUMBER |
|---|---|
| 5/5/2023 | 220306 |

REVISIONS

| No. | Description | Date |
|---|---|---|

CONSTRUCTION DOCUMENTS

**SIGNAGE DETAILS**

**G0.7**

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# SITE IMPROVEMENT PLANS
## FOR
# CENTENNIAL HIGH SCHOOL AQUATICS CENTER

## GENERAL NOTES FOR GRADING

1. ALL WORK SHALL CONFORM WITH THE "GREENBOOK" STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC), 2021 EDITION AND THE LATEST REVISIONS THERETO, THE WORK AREA TRAFFIC CONTROL HANDBOOK (W.A.T.C.H. MANUAL), A.D.A. TITLE 24 REQUIREMENTS, AND 2022 C.B.C. UNLESS SPECIFIED OTHERWISE IN THE CONTRACT SPECIFICATIONS.
2. A COPY OF THE DIVISION OF STATE ARCHITECT APPROVED GRADING PLANS MUST BE IN THE POSSESSION OF A RESPONSIBLE PERSON AND AVAILABLE AT THE JOB SITE AT ALL TIMES.
3. AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCING CONSTRUCTION, THE CONTRACTOR SHALL CONTACT THE REGIONAL NOTIFICATION CENTER (UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA - U.S.A. AT 811) TO OBTAIN AN INQUIRY IDENTIFICATION NUMBER AND TO REQUEST THE UTILITY OWNERS TO MARK OR OTHERWISE INDICATE THE LOCATION OF THEIR SUBSURFACE FACILITIES. THE CONTRACTOR SHALL DETERMINE THE LOCATION AND DEPTH OF ALL UTILITIES, INCLUDING ALL SERVICE CONNECTIONS, WHICH HAVE BEEN MARKED BY THE RESPECTIVE OWNERS AND WHICH MAY AFFECT OR BE AFFECTED BY ITS OPERATIONS. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO PROTECT ALL UTILITIES AND ALL STRUCTURES FOUND AT THE SITE.
4. ALL PERMITS NECESSARY PRIOR TO BEGINNING CONSTRUCTION SHALL BE OBTAINED BY THE CONTRACTOR.
5. THROUGHOUT ALL PHASES OF CONSTRUCTION, INCLUDING SUSPENSION OF WORK, UNTIL FINAL ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL KEEP THE WORK SITE CLEAN AND FREE FROM RUBBISH AND DEBRIS. THE CONTRACTOR SHALL ALSO ABATE DUST NUISANCE BY CLEANING, SWEEPING AND SPRINKLING WITH WATER AND USING DUST FENCES OR OTHER METHODS AS DIRECTED BY THE CONSTRUCTION MANAGER OR FIELD INSPECTOR THROUGHOUT THE CONSTRUCTION OPERATION AND SHALL INCORPORATE IN BASE BID.
6. THE CONTRACTOR SHALL KEEP A STRICT RECORD OF ALL CHANGES THAT OCCUR DURING CONSTRUCTION PRACTICES AND SUBMIT THIS RECORD TO THE SCHOOL DISTRICT & DSA CERTIFIED AS "RECORD DRAWING" PLANS.
7. ALL DAMAGE CAUSED TO PUBLIC STREETS, INCLUDING HAUL ROUTES, ALLEYS, SIDEWALKS, CURBS OR STREET FURNISHINGS, OR TO PRIVATE PROPERTY SHALL BE REPAIRED AT THE SOLE EXPENSE OF THE CONTRACTOR TO THE ENGINEER'S SATISFACTION.
8. THE CONTRACTOR SHALL REMOVE AND REPLACE ANY BROKEN OR DAMAGED SIDEWALK, CURB, GUTTER OR ASPHALT PAVING AND TURF (PATCH, REPAIR OR OVERLAY) CAUSED BY THEIR WORK ON THIS PROJECT AT THE DIRECTION OF THE OWNER.
9. ALL UNDERGROUND SEWER, STORM DRAIN, AND WATER PIPELINES, ELECTRIC POWER, TELEPHONE OR CABLE TV CONDUITS AND CABLE AND GAS PIPELINES SHALL BE INSTALLED PRIOR TO CONSTRUCTION OF CURBS, GUTTERS, SIDEWALKS AND PAVEMENT.
10. WHERE JOINING THE EXISTING PAVEMENT, SAWCUT TO SOUND PAVEMENT AND OVERLAY AS REQUIRED TO PROVIDE PROPER GRADE AND 2% MAX. CROSS-SLOPE OR 5% MAX. RUNNING SLOPE AS NOTED ON PLANS. ANY UNSOUND PAVEMENT SHALL BE REPLACED AS REQUIRED BY THE ENGINEER.
11. AT LEAST TWO (2) WORKING DAYS BEFORE COMMENCING EXCAVATION, THE CONTRACTOR SHALL POTHOLE AND EXPOSE THE EXISTING UTILITIES AT ALL CROSSINGS AND AT THE POINT OF TIE-IN; THEN CONTACT THE ENGINEER TO VERIFY THE ELEVATION OF THE EXISTING FACILITIES.
12. SURVEY MONUMENTS SHALL BE PRESERVED AND REFERENCED BEFORE CONSTRUCTION AND RE-PLACED AFTER CONSTRUCTION PURSUANT TO SECTION 2-9 OF THE S.S.P.W.C. (GREENBOOK).
13. ALL UNSUITABLE MATERIAL SHALL BE REMOVED, AS DIRECTED BY THE SOILS ENGINEER, FROM ALL AREAS ALL UNSUITABLE MATERIAL SHALL BE REMOVED, AS DIRECTED BY THE SOILS ENGINEER, FROM ALL AREAS TO RECEIVE COMPACTED FILL OR DRAINAGE STRUCTURES, TO RECEIVE COMPACTED FILL OR DRAINAGE STRUCTURES.
14. ALL DELETERIOUS MATERIAL (I.E. LUMBER, LOGS, BRUSH, RUBBISH, ETC.) SHALL BE REMOVED FROM ALL AREAS TO RECEIVE COMPACTED FILL AND HAULED TO DUMP-SITE APPROVED BY THE ENGINEER.
15. ALL AREAS TO RECEIVE COMPACTED FILL SHALL BE INSPECTED AND APPROVED BY THE SOILS ENGINEER AFTER REMOVAL OF UNSUITABLE MATERIAL AND EXCAVATION OF KEYWAYS AND BENCHES, AND PRIOR TO PLACEMENT OF SUBSURFACE DRAINAGE SYSTEMS OR ANY FILLS.
16. ALL SOILS OR ROCK MATERIALS DEEMED UNSUITABLE FOR PLACEMENT IN COMPACTED FILL SHALL BE REMOVED FROM THE SITE. ANY IMPORTED MATERIAL SHALL BE APPROVED BY THE SOILS ENGINEER PRIOR TO USE IN COMPACTED FILL. BLOCKY MATERIAL SHALL BE BROKEN INTO SUITABLE PARTICLE SIZES, BEFORE BEING USED AS FILL IN CONFORMANCE WITH THE CITY STANDARDS.
17. ALL TREE ROOTS, ABANDONED IRRIGATION LINES, UTILITY SERVICES AND SIMILAR MATERIALS ENCOUNTERED DURING EXCAVATION SHALL BE REMOVED FROM THE SITE AND VOIDS CREATED THEREBY SHALL BE PROPERLY FILLED AND COMPACTED AS DIRECTED BY THE SOILS ENGINEER.
18. ALL EXCAVATED BACK SLOPES AND KEYS FOR BUTTRESS FILLS MUST BE EXAMINED BY THE ENGINEERING GEOLOGIST AND SOILS ENGINEER TO INSURE ALL POTENTIAL PLANES OF FAILURE HAVE BEEN EXPOSED IN THE EXCAVATION AND WILL BE ADEQUATELY SUPPORTED BY THE PROPOSED BUTTRESS FILLS.
19. THE SOILS ENGINEER SHALL SUBMIT RECOMMENDATIONS FOR CORRECTIVE WORK TO INSURE SLOPE STABILITY WHERE UNSTABLE MATERIAL IS EXPOSED AT THE TOP OF CUTS.
20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING STORM DAMAGE PREVENTION MEASURES OR EROSION CONTROL DEVICES AND/OR TO PERFORM CERTAIN GRADING TO PREVENT SOIL OR EXCESS RUNOFF FROM FLOWING INTO PUBLIC STREETS OR ADJACENT PROPERTIES. IN THE EVENT OF SUCH AN OCCURRENCE, CLEANUP SHALL COMMENCE IMMEDIATELY. SHOULD CITY FORCES OR THE CITY CONTRACTOR PERFORM ANY CLEANUP RESULTING FROM THIS DEVELOPMENT, THE CONTRACTOR SHALL PAY THE COST INCURRED WITHIN TEN (10) WORKING DAYS UPON RECEIPT OF BILLING.
21. EITHER WATER OR DUST PALLIATIVE, OR BOTH, MUST BE APPLIED FOR THE ALLEVIATION OR PREVENTION OF EXCESSIVE DUST RESULTING FROM THE LOADING OR TRANSPORTATION OF EARTH FROM OR TO THE PROJECT SITE OR PRIVATE AND PUBLIC ROADWAYS.
22. NO OVERSIZE OR OVERWEIGHT LOADS ARE PERMITTED WITHOUT A SEPARATE MOVING PERMIT.
23. ALL EQUIPMENT USED TO HAUL EXCAVATION OR FILL MATERIAL FROM OR TO THE SITE SHALL FOLLOW A DESIGNATED ROUTE OR ROUTES IN GOING TO AND FROM THE SITE. THE CONTRACTOR SHALL BE ENTITLED TO THE DESIGNATION OF A ROUTE PROVIDING ACCESS TO A SPECIFIED PLACE OTHER THAN THE SITE, AFTER SHOWING TO THE SATISFACTION OF THE CITY BUILDING OFFICIAL THAT SUCH SPECIFIED PLACE IS A PLACE WHERE EXCAVATION MATERIAL MAY BE REASONABLY DEPOSITED OR FILL MATERIAL MAY BE OBTAINED. A SEPARATE ENCROACHMENT PERMIT IS REQUIRED WHEN IT IS NECESSARY TO FLAG TRAFFIC OR INSTALL ANY TRAFFIC CONTROL DEVICES ON CITY RIGHT-OF-WAY.
24. ANY EARTH ROCK, GRAVEL, SAND, STONE OR OTHER EXCAVATED MATERIAL DEPOSITED OR CAUSED TO ROLL, FLOW OR WASH UPON ANY PUBLIC PLACE OR PRIVATE PROPERTY SHALL BE REMOVED FROM SUCH PUBLIC PLACE OR PRIVATE PROPERTY BY THE END OF THE WORKDAY BY THE CONTRACTOR RESPONSIBLE FOR THE DEPOSITION. IF AN ADVERSE CONDITION IS CAUSED BY DEPOSIT, THE CONDITION SHALL BE CORRECTED IMMEDIATELY.
25. EVERY EFFORT SHOULD BE MADE TO ELIMINATE THE DISCHARGE OF NON-STORMWATER FROM THE PROJECT SITE AT ALL TIMES.
26. ALL TRUCKS HAULING DIRT, SAND, OIL, OR OTHER LOOSE MATERIALS ARE TO BE COVERED OR SHOULD MAINTAIN AT LEAST TWO FEET OF FREEBOARD IN ACCORDANCE WITH THE REQUIREMENTS OF CVC SECTION 23114.
27. ADJUST UTILITY BOXES TO BE FLUSH WITH ULTIMATE FINISH SURFACE IN PAVING SCOPE OF WORK AREAS.
28. CONTRACTOR SHALL HIRE A LICENSED SURVEYOR TO STAKE ALL CATCH BASINS, STORM DRAIN PIPE, SAW-CUT LINES, BUILDING PADS, FINISH FLOORS, SWALES AND GRADE BREAKS. TWO STAKES SHALL BE PROVIDED FOR ALL CATCH BASINS.
29. IN ORDER TO MITIGATE THE IMPACTS ON CULTURAL RESOURCES OR LANDSCAPING, IF CULTURAL MATERIAL SUGGESTIVE OF PREHISTORIC OR HISTORIC ORIGIN IS ENCOUNTERED, WORK IN THE VICINITY OF THE FIND SHALL BE STOPPED, AND THE OWNER SHALL BE NOTIFIED. GRADING, CONSTRUCTION OR LANDSCAPING SHALL NOT RESUME UNTIL THE FIND IS EVALUATED AND IT IS DETERMINED WHETHER THE MATERIAL IS ARCHAEOLOGICALLY SIGNIFICANT AND ADDITIONAL MITIGATION IS REQUIRED.
30. NO PERSON SHALL, WHEN HAULING ANY EARTH, SAND, GRAVEL, ROCK, STONE OR OTHER EXCAVATED MATERIAL OR DEBRIS OVER ANY PUBLIC STREET, ALLEY OR OTHER PUBLIC PLACE, ALLOW SUCH MATERIAL TO BLOW OR SPILL OVER UPON SUCH STREET, ALLEY OR PUBLIC PLACE OR ADJACENT PRIVATE PROPERTY OR ANY WATER BODIES, CREEKS OR STREAMS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CLEANUP AND REMOVAL OF ANY CONSTRUCTION OR SOILS MATERIALS DEPOSITED ON THE PUBLIC RIGHT-OF-WAY, PUBLIC WATERS OR ADJACENT PRIVATE PROPERTY.

## GENERAL NOTES TO CONTRACTOR

1. THE CONTRACTOR'S ATTENTION IS DIRECTED TO SECTION 7-10, PUBLIC CONVENIENCE AND SAFETY, OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (GREENBOOK), IN REGARDS TO SAFETY ORDERS.
2. SCOPE OF WORK:

   A. PROVIDE ALL LABOR, SUPERVISION, MATERIALS, EQUIPMENT & FACILITIES NECESSARY TO FURNISH, FABRICATE, DELIVER, STORE AND INSTALL ALL WORK NOTED ON THE DRAWINGS.

   B. THE CONTRACTOR SHALL FURNISH & INSTALL ALL WORK NECESSARY TO MAKE A COMPLETE SYSTEM WHETHER OR NOT SUCH DETAILS ARE MENTIONED IN THESE SPECIFICATIONS OR SHOWN ON THE PLANS, BUT WHICH ARE OBVIOUSLY NECESSARY TO MAKE A COMPLETE SYSTEM, EXCEPTING ONLY THOSE PORTIONS THAT ARE SPECIFICALLY MENTIONED HEREIN OR PLAINLY MARKED ON THE ACCOMPANYING DRAWINGS AS BEING INSTALLED UNDER ANOTHER SECTION OF THE SPECIFICATION.
3. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY AVAILABLE SPACES FOR INSTALLING THE WORK.
4. COORDINATION: THE DRAWINGS ARE DIAGRAMMATIC & INTENDED TO SHOW SCOPE. CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES TO PROVIDE BEST ARRANGEMENT OF ALL DUCT, PIPES, CONDUIT, ETC.
5. WORKMANSHIP: THE WORK SHALL BE ACCOMPLISHED BY THE USE OF COMPETENT MECHANICS SKILLED IN THEIR TRADE. THE ENGINEER AND ARCHITECT SHALL HAVE THE RIGHT TO INTERPRET COMPLIANCE OF WORKMANSHIP WITH THE CONTRACT DOCUMENTS.
6. MATERIALS: ALL MATERIALS, APPLIANCES & EQUIPMENT SHALL BE NEW & THE BEST OF THEIR RESPECTIVE KIND. FREE FROM ALL DEFECTS AND OF THE MAKE, BRAND, AND QUANTITY SPECIFIED.
7. CLEAN-UP: UPON COMPLETION OF THE WORK UNDER THIS SECTION THE CONTRACTOR SHALL REMOVE ALL SURPLUS MATERIALS. EQUIPMENT & DEBRIS INCIDENTAL TO THIS WORK & LEAVE THE PREMISES CLEAN AND ORDERLY TO THE SATISFACTION OF THE ARCHITECT / OWNER.

## STORM WATER POLLUTION CONTROL NOTES:

1. APPROPRIATE BMP'S FOR CONSTRUCTION-RELATED MATERIALS, WASTE, SPILLS OR RESIDUES SHALL BE IMPLEMENTED AND RETAINED ON SITE TO MINIMIZE TRANSPORT FROM THE SITE TO STREETS, DRAINAGE FACILITIES, OR ADJOINING PROPERTY BY WIND OR RUNOFF.
2. SEDIMENT FROM AREAS DISTURBED BY CONSTRUCTION SHALL BE RETAINED ON SITE USING STRUCTURAL CONTROLS TO THE MAXIMUM EXTENT PRACTICABLE.
3. STOCKPILES OF SOIL SHALL BE PROPERLY CONTAINED TO MINIMIZE SEDIMENT TRANSPORT FROM THE SITE TO STREETS, DRAINAGE FACILITIES OR ADJACENT PROPERTIES VIA RUNOFF, VEHICLE TACKING, OR WIND.
4. ALL REMOVABLE EROSION PROTECTIVE DEVICES SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN THE 5-DAY RAIN PROBABILITY FORECAST EXCEEDS 50%.
5. RUNOFF FROM EQUIPMENT AND VEHICLE WASHING SHALL BE CONTAINED AT CONSTRUCTION SITES UNLESS TREATED TO REDUCE OR REMOVE SEDIMENT AND OTHER POLLUTANTS.
6. ALL CONSTRUCTION CONTRACTOR AND SUBCONTRACTOR PERSONNEL ARE TO BE MADE AWARE OF THE REQUIRED BEST MANAGEMENT PRACTICES AND GOOD HOUSEKEEPING MEASURES FOR THE PROJECT SITE AND ANY ASSOCIATED CONSTRUCTION STAGING AREAS.
7. AT THE END OF EACH DAY OF CONSTRUCTION ACTIVITY ALL CONSTRUCTION DEBRIS AND WASTE MATERIALS SHALL BE COLLECTED AND PROPERLY DISPOSED IN TRASH OR RECYCLE BINS.
8. CONSTRUCTION SITES SHALL BE MAINTAINED IN SUCH A CONDITION THAT AN ANTICIPATED STORM DOES NOT CARRY WASTES OR POLLUTANTS OFF THE SITE. DISCHARGES OF MATERIAL OTHER THAN STORMWATER ONLY WHEN NECESSARY FOR PERFORMANCE AND COMPLETION OF CONSTRUCTION PRACTICES AND WHERE THEY DO NOT: CAUSE OR CONTRIBUTE TO A VIOLATION OF ANY WATER QUALITY STANDARD; CAUSE OR THREATEN TO CAUSE POLLUTION, CONTAMINATION, OR NUISANCE; OR CONTAIN A HAZARDOUS SUBSTANCE IN A QUANTITY REPORTABLE UNDER FEDERAL REGULATIONS 40 CFR PARTS 117 AND 302.
9. POTENTIAL POLLUTANTS INCLUDE BUT ARE NOT LIMITED TO: SOLID OR LIQUID CHEMICAL SPILLS; WASTES FROM PAINTS, STAINS, SEALANTS, GLUES, LIMES, PESTICIDES, HERBICIDES, WOOD PRESERVATIVES AND SOLVENTS; ASBESTOS FIBERS, PAINT FLAKES OR STUCCO FRAGMENTS; FUELS, OILS, LUBRICANTS, AND HYDRAULIC, RADIATOR OR BATTERY FLUIDS; FERTILIZERS, VEHICLE/EQUIPMENT WASH WATER AND CONCRETE WASH WATER; CONCRETE, DETERGENT OR FLOATABLE WASTES; WASTES FROM ANY ENGINE/EQUIPMENT STEAM CLEANING OR CHEMICAL DEGREASING AND SUPERCHLORINATED POTABLE WATER LINE FLUSHING. DURING CONSTRUCTION, PERMITTEE SHALL DISPOSE OF SUCH MATERIALS IN A WASHOUT BIN OR SPECIFIED AND CONTROLLED TEMPORARY AREA ON-SITE PHYSICALLY SEPARATED FROM POTENTIAL STORMWATER RUNOFF, WITH ULTIMATE DISPOSAL IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REQUIREMENTS.
10. DEWATERING OF CONTAMINATED GROUNDWATER, OR DISCHARGING CONTAMINATED SOILS VIA SURFACE EROSION IS PROHIBITED. DEWATERING OF NON-CONTAMINATED GROUNDWATER REQUIRES A NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT FROM THE RESPECTIVE STATE REGIONAL WATER QUALITY CONTROL BOARD.
11. GRADED AREAS ON THE PERMITTED AREA PERIMETER MUST DRAIN AWAY FROM THE FACE OF SLOPES AT THE CONCLUSION OF EACH WORKING DAY. DRAINAGE IS TO BE DIRECTED TOWARD DESILTING FACILITIES.
12. THE CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATER CREATES A HAZARDOUS CONDITION.
13. THE CONTRACTOR SHALL INSPECT THE EROSION CONTROL WORK AND INSURE THAT THE WORK IS IN ACCORDANCE WITH THE APPROVED PLANS.
14. THE GENERAL CONTRACTOR SHALL NOTIFY ALL SUBCONTRACTORS & MATERIAL SUPPLIERS: THAT DUMPING OF CHEMICALS INTO THE STORM DRAIN SYSTEM OR THE WATERSHED IS PROHIBITED.
15. EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON. NECESSARY MATERIALS SHALL BE AVAILABLE ON SITE AND STOCKPILED AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES WHEN RAIN IS IMMINENT.

THE FOLLOWING BMPs AS OUTLINED IN, BUT NOT LIMITED TO, THE STORMWATER BEST MANAGEMENT PRACTICE HANDBOOK, CONSTRUCTION, CALIFORNIA STORMWATER QUALITY ASSOCIATION, LATEST EDITION, MAY APPLY DURING CONSTRUCTION (ADDITIONAL MEASURES MAY BE REQUIRED IF DEEMED APPROPRIATE BY INSPECTOR):

| NON-STORMWATER MANAGEMENT & MATERIAL MANAGEMENT BMPs | EROSION & SEDIMENTAL CONTROL BMPs |
|---|---|
| NS-1 - WATER CONSERVATION PRACTICES | EC-1 - SCHEDULING |
| NS-2 - DEWATERING OPERATIONS | EC-2 - PRESERVATION OF EXISTING VEGETATION |
| NS-3 - PAVING AND GRINDING OPERATIONS | EC-7 - GEOTEXTILES & MATS |
| NS-6 - ILLICIT CONNECTION/DISCHARGE | EC-9 - EARTH DIKES AND DRAINAGE SWALES |
| NS-7 - POTABLE WATER/IRRIGATION | EC-11 - SLOPE DRAINS |
| NS-8 - VEHICLE AND EQUIPMENT CLEANING | SE-1 - SILT FENCE |
| NS-10 - VEHICLE AND EQUIPMENT MAINTENANCE | SE-2 - SEDIMENT BASIN |
| NS-12 - CONCRETE CURING | SE-3 - SEDIMENT TRAP |
| NS-13 - CONCRETE FINISHING | SE-4 - CHECK DAM |
| NS-14 - MATERIAL AND EQUIPMENT USE | SE-5 - FIBER ROLLS |
| WM-1 - MATERIAL DELIVERY AND STORAGE | SE-6 - GRAVEL BAG BERM |
| WM-2 - MATERIAL USE | SE-7 - STREET SWEEPING AND VACUUMING |
| WM-3 - STOCKPILE MANAGEMENT | SE-8 - SANDBAG BARRIER |
| WM-4 - SPILL PREVENTION AND CONTROL | SE-9 - STRAW BALE BARRIER |
| WM-5 - SOLID WASTE MANAGEMENT | SE-10 - STORM DRAIN INLET PROTECTION |
| WM-6 - HAZARDOUS WASTE MANAGEMENT | WE-1 - WIND EROSION CONTROL |
| WM-7 - CONTAMINATED SOIL MANAGEMENT | TC-1 - STABILIZED CONSTRUCTION ENTRANCE/EXIT |
| WM-8 - CONCRETE WASTE MANAGEMENT | TC-2 - STABILIZED CONSTRUCTION ROADWAY |
| WM-9 - SANITARY/SEPTIC WASTE MANAGEMENT | TC-3 - ENTRANCE/OUTLET TIRE WASH |
| WM-10 - LIQUID WASTE MANAGEMENT | |

**RECOMMENDATIONS AND CONCLUSIONS OF SOILS REPORT No. 136324.001, DATED SEPTEMBER 2, 2022 BY LEIGHTON CONSULTING, INC. SHALL BE THOROUGHLY COMPLIED WITH. WHERE CONFLICTING INFORMATION BETWEEN THIS GRADING PLAN AND/OR THE PROJECT EARTHWORK SPECIFICATIONS & THE MENTIONED REPORT OCCUR, NOTIFY THE ARCHITECT.**

**EARTHWORK NOTICE TO CONTRACTOR: NO EARTHWORK ANALYSIS HAS BEEN COMPLETED WITH RESPECT TO VOLUMES OF SOILS TO BE EXCAVATED, PLACED, OR IMPORTED IN ORDER TO PROVIDE THE FINISHED GRADES SHOWN ON THE PLANS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR VERIFYING THE EARTHWORK QUANTITIES NECESSARY TO COMPLETE THE PROJECT.**

**GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.**

## HORIZONTAL CONTROL

A CAD GEOMETRIC ELECTRONIC FILE SHALL BE MADE AVAILABLE TO THE CONTRACTOR UPON REQUEST FOR THE CONTRACTOR'S SURVEYOR TO LAYOUT THE CONSTRUCTION STAKING OF THE PROJECT. THE SURVEYOR OR CONTRACTOR WILL NEED TO SIGN A WAIVER FORM BEFORE RELEASE OF ANY CAD ELECTRONIC DRAWINGS.

## BASIS OF BEARINGS

THE BASIS OF BEARINGS FOR THIS PROJECT IS THE CALIFORNIA COORDINATE SYSTEM, ZONE 5 GRID, EPOCH 2020.750.

LOCALLY DEFINED BY GPS COORDINATES.

## BENCHMARK

CITY OF CORONA BENCHMARK C-C132 ELEVATION 775.638 FEET
"A 2-1/2" BRASS DISK STAMPED "C-132" SET IN THE TOP OF CURB, LOCATED 5' NORTH OF THE B.C.R. OF THE NORTHEASTERLY CURB RETURN OF THE INTERSECTION OF MAGNOLIA STREET AND FULLERTON AVENUE."

**NOTE TO CONTRACTOR: BEFORE DEMOLITION OCCURS, THE CONTRACTOR SHALL COMPLETE HIS OWN UNDERGROUND UTILITY MAPPING SURVEY OF THE PROJECT SITE TO DETERMINE WERE EXISTING UTILITIES ARE AND WHERE POSSIBLE UNDERGROUND CONFLICTS MAY OCCUR WITH NEW CONSTRUCTION ACTIVITIES.**

**NOTE: CONTRACTOR IS REQUIRED TO RESTORE ALL EXISTING IMPROVEMENTS TO THE SAME CONDITION, THAT ARE NOT PART OF THIS PROJECT, THAT EXISTED PRIOR TO STARTING CONSTRUCTION.**

**NPDES STORM WATER CONSTRUCTION GENERAL PERMIT 2009-0009-DWQ (AS AMENDED BY 2010-0014-DWQ & 2012-006-DWQ):**
**BEFORE CONSTRUCTION ACTIVITY CAN COMMENCE A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) MUST BE IN PLACE AT THE CONSTRUCTION SITE AND A WASTE DISCHARGE IDENTIFICATION NUMBER (WDID#) OBTAINED FROM THE STATE WATER BOARD. THE CONTRACTOR IS RESPONSIBLE FOR THE PREPARATION OF THE SWPPP & OBTAINING THE WDID #. THE CONTRACTOR IS RESPONSIBLE FOR THE IMPLEMENTATION OF THE SWPPP BY UTILIZING A QUALIFIED SWPPP PRACTITIONER (QSP) AS DEFINED IN THE CONSTRUCTION GENERAL PERMIT. THIS INCLUDES MAINTENANCE OF EROSION AND SEDIMENT CONTROL DURING THE LIFE OF THE PROJECT AND SUBMITTAL OF THE ANNUAL REPORTS.**

## SHEET INDEX


| SHEET | DESIGNATION |
|---|---|
| C0.00 | SITE IMPROVEMENT PLAN TITLE SHEET |
| C1.00 | SITE DEMOLITION PLAN |
| C2.01 | GRADING PLAN |
| C2.02 | GRADING PLAN |
| C2.03 | GRADING PLAN |
| C2.04 | GRADING PLAN |
| C3.00 | DETAIL SHEET |
| C3.01 | DETAIL SHEET |
| C4.00 | SITE UTILITY PLAN |
| C5.00 | SITE UTILITY DETAIL SHEET |


## EXISTING UNDERGROUND STRUCTURES

THE LOCATIONS OF THE EXISTING UNDERGROUND UTILITIES, AS SHOWN ON THIS PLAN, WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. NO REPRESENTATION IS MADE AS TO THE ACCURACY OR COMPLETENESS OF SAID UTILITY INFORMATION. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE LOCATIONS OF SUCH UNDERGROUND UTILITIES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNERS OF THE UTILITIES OR STRUCTURES CONCERNED BEFORE STARTING WORK. CONTRACTOR SHALL VERIFY LOCATIONS OF EXISTING UTILITIES PRIOR TO ANY EXCAVATION OR IMPROVEMENT. THE CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN TO BE PROTECTED HEREON AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN HEREON.

## ABBREVIATIONS

| | | | |
|---|---|---|---|
| ABND | ABANDONED | MH | MANHOLE |
| AC | ASPHALT PAVEMENT | NG | NATURAL GROUND |
| ACP | ASBESTOS CEMENT PIPE (TRANSITE) | N.I.C. | NOT IN CONTRACT |
| BLDG | BUILDING | P.C.C. | PORTLAND CEMENT CONRETE |
| BC | BEGINNING OF CURVE | ℄ | PROPERTY LINE |
| BW | BACK OF WALK | PIV | POST INDICATOR VALVE |
| ℄ | CENTERLINE | PP | POWER POLE |
| CB | CATCH BASIN | RCE | REGISTERED CIVIL ENGINEER |
| CF | CURB FACE HEIGHT | RR | RAILROAD |
| CLF | CHAIN LINK FENCE | S | SLOPE |
| CONC | CONCRETE | SD | STORM DRAIN |
| DCV | DETECTOR CHECK VALVE | SDMH | STORM DRAIN MANHOLE |
| DESC | DESCRIBED | SL | STREET LIGHT |
| D/W | DRIVEWAY | SMH | SEWER MANHOLE |
| DI | DROP INLET | S.P.P.W.C. | STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION (2021 EDITION). |
| EP | EDGE OF PAVEMENT | S.S.P.W.C. | STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (GREEN BOOK), 2021 EDITION |
| EC | END OF CURVE | SW | SIDEWALK |
| EX | EXISTING | TC | TOP OF CURB |
| FDC | FIRE DEPARTMENT CONNECTION | TELE | TELEPHONE |
| FH | FIRE HYDRANT | TG | TOP OF GRATE |
| FL | FLOWLINE | TCO | TOP OF CLEANOUT |
| FS | FINISH SURFACE | TS | TRAFFIC SIGN |
| GA | GUY ANCHOR | TW | TOP OF WALL |
| GB | GRADE BREAK | TYP. | TYPICAL |
| GP | GUARD POST | UDG | UNDERGROUND CONDUIT |
| GV | GAS VALVE | UTIL | UTILITY |
| HB | HOSE BIBB | WM | WATER METER |
| HP | HIGH POINT | WV | WATER VALVE |
| ICV | IRRIGTION CONTROL VALVE | W VLT | WATER VAULT |
| INV | INVERT | VIF | VERIFY IN FIELD |
| IP | IRON PIPE | VLT | VAULT |
| L | LENGTH | | |
| LIP | LIP OF GUTTER | | |
| LP | LIGHT POLE | | |
| L T & T | LEAD TACK AND TAG | | |

## LEGEND

- SEWER MANHOLE
- STORM DRAIN MANHOLE
- TELEPHONE MANHOLE
- FIRE HYDRANT
- SEWER CLEANOUT
- WATER VALVE
- GAS VALVE
- WATER METER
- GAS METER
- WATER VAULT
- GAS VAULT
- TELEPHONE VAULT
- ELECTRIC VAULT
- WELL
- ELECTRIC PULLBOX
- GUY WIRE
- LIGHT
- OVERHANG POST
- SIGN POST
- WIRE FENCE
- CHAIN LINK FENCE
- BLOCK WALL
- TREE
- FLOW DIRECTION
- FS FINISHED SURFACE
- FF FINISHED FLOOR
- (785.0) EXISTING CONTOUR ELEVATION
- 785.0 PROPOSED CONTOUR ELEVATION
- IRRIGATION VALVE
- GRATE
- CF CURB FACE
- INV INVERT

### UTILITY LINETYPE LEGEND

- SEW — NEW SANITARY SEWER
- SD — NEW STORM DRAIN
- W — NEW DOMESTIC WATER
- SD — (E)STORM DRAIN
- W — (E)WATER
- SEW — (E)SANITARY SEWER
- G — (E)GAS
- E — (E)ELECTRICAL/POWER
- COMM — (E)COMMUNICATIONS
- U — (E)UNKNOWN UTILITY
- F — (E)FIRE WATER


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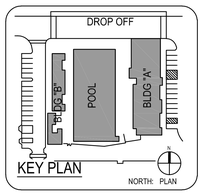
CENTENNIAL HIGH SCHOOL AQUATICS CENTER

PROJECT ADDRESS:
1820 RIMPAU AVE,
CORONA, CA 92881

CONSTRUCTION DOCUMENTS
FILE #: 33-44 DSA APPLICATION #: 04-122208




Consultant




Architect

CLIENT
CNUSD

| DATE | PROJECT NUMBER |
|---|---|
| 4/28/2023 | 220306 |

REVISIONS

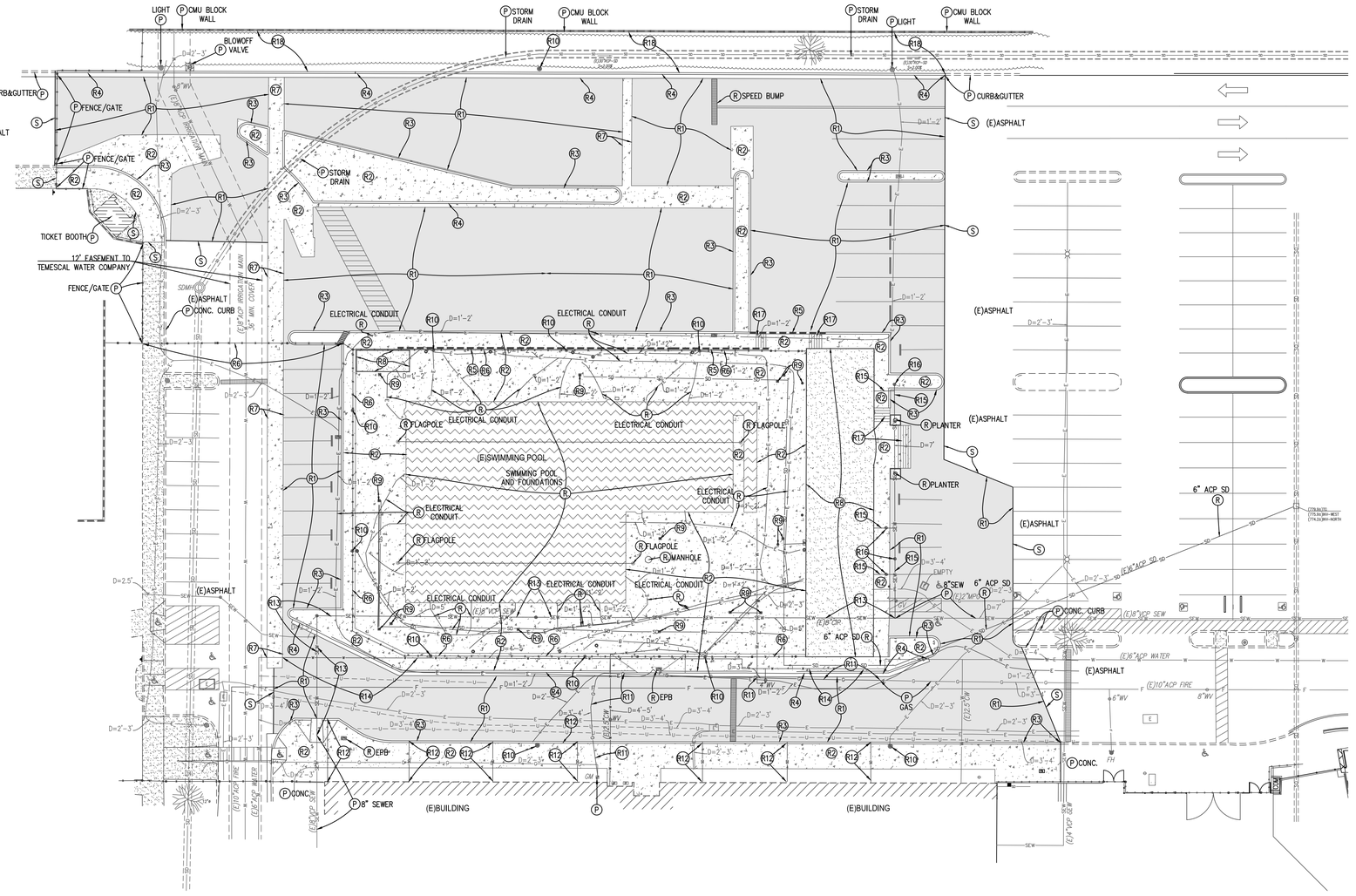
| No. | Description | Date |
|---|---|---|
| | | |

CONSTRUCTION DOCUMENTS

**SITE IMPROVEMENT PLAN TITLE SHEET**

**C0.00**


Plot Date: 5/2/2023 11:18:24 AM Last Save By: ron.conedy Login: Ron Conedy S:\Jobs\2777 - PBK\2777h - Centennial High School\Civil\Centennial HS C0.00 - Title Sheet.dwg




## GENERAL DEMOLITION NOTES

1. ALL ITEMS, SHOWN ON THIS PLAN TO BE REMOVED, SHALL BE VERIFIED BY THE SCHOOL DISTRICT PRIOR TO DEMOLITION. THE CONTRACTOR SHALL MEET WITH THE SCHOOLS REPRESENTATIVE PRIOR TO CLEARING AND GRUBBING.
2. THE CONTRACTOR SHALL VERIFY THE LOCATION AND QUANTITY OF EXISTING SURFACE STRUCTURES AND SHALL BE SOLELY RESPONSIBLE FOR ANY UNIDENTIFIED UTILITIES, IMPROVEMENTS, TREES, ETC., TO BE DEMOLISHED AND REMOVED WITHIN THE DEMOLITION LIMIT LINE, INCLUDING APPURTENANT FOUNDATIONS OR SUPPORTS.
3. REMOVAL OF LANDSCAPING SHALL INCLUDE ROOTS AND ORGANIC MATERIAL.
4. ALL CONCRETE & CMU BLOCK WALLS & PLANTERS SHOWN ON THIS PLAN TO BE REMOVED SHALL INCLUDE WALL FOOTINGS & FOUNDATIONS IN THEIR REMOVAL.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR A SITE INSPECTION TO FIELD VERIFY AND FULLY ACKNOWLEDGE THE EXTENT OF THE DEMOLITION WORK. ALL ITEMS TO BE REMOVED SHALL BE MARKED BY THE CONTRACTOR PRIOR TO DEMOLITION.
6. DAMAGE TO ANY EXISTING UTILITIES AND SERVICES WHICH ARE TO REMAIN SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL REPAIR AND/OR REPLACE IN KIND.
7. TEMPORARY EROSION CONTROL MEASURES SHALL BE IMPLEMENTED TO PREVENT DEBRIS AND UNSUITABLE MATERIALS FROM ENTERING STORM DRAIN, SANITARY SEWERS AND STREETS.
8. DUST CONTROL SHALL BE IMPLEMENTED DURING DEMOLITION.
9. THE PROVISIONS OF CALIFORNIA FIRE CODE CHAPTER 14 AND CALIFORNIA BUILDING CODE CHAPTER 37 SHALL BE ENFORCED ON THIS PROJECT.
10. THE CONTRACTOR SHALL PREPARE HIS OWN UNDERGROUND UTILITY MAPPING SURVEY OF THE SITE AND MARK, WITH PAINT, THE LOCATIONS OF ALL EXISTING UTILITIES FOUND PRIOR TO DEMOLITION.
11. THE CONTRACTOR SHALL DEMOLISH AND REMOVE ALL LANDSCAPING WATERING SYSTEMS WITHIN THE DEMOLITION LIMIT LINE UNLESS DESIGNATED TO REMAIN IN PLACE ON THE PLANS. WHERE THE DEMOLITION IMPACTS EXISTING LANDSCAPE TO REMAIN, MODIFY THE EXISTING IRRIGATION SYSTEM, INCLUDING ADDING IRRIGATION HEADS AS NECESSARY TO MAINTAIN COMPLETE AND FULL COVERAGE OF EXISTING PLANNING.
12. CONTRACTOR SHALL NOT DAMAGE ANY PUBLIC SIDEWALK DURING THE COURSE OF HIS WORK. THE USE OF SHORING ON SCHOOL PROPERTY WILL BE REQUIRED TO PROTECT THE PUBLIC SIDEWALK IF NECESSARY.
13. THE CONTRACTOR SHALL BACKFILL SOIL IN THE EXCAVATED TREE ROOT PITS AND THE TRENCHES FOR REMOVED EXISTING UNDERGROUND STRUCTURES, UTILITIES, AND IMPROVEMENTS.
14. THE CONTRACTOR SHALL NOT ABANDON-IN-PLACE ANY EXISTING UNDERGROUND STRUCTURE, UTILITY, OR IMPROVEMENT SO DESIGNATED FOR REMOVAL ON THE PROJECT PLANS UNLESS DIRECTED TO BY THE OWNER.
15. CONTRACTOR TO SAWCUT ALL EXISTING A.C. AND CONCRETE PAVEMENT AT DEMOLITION LIMIT LINE. CONTRACTOR SHALL REMOVE SIDEWALK, CURB & GUTTER TO THE NEAREST JOINT.
16. CONTRACTOR SHALL REPLACE ALL EXISTING IMPROVEMENTS OUTSIDE THE DEMOLITION LIMIT LINE THAT ARE DAMAGED DURING CONSTRUCTION TO MATCH EXISTING, INCLUDING PERMANENT TRENCH RESURFACING.
17. CONTRACTOR SHALL FIELD VERIFY THAT THE REMOVAL OF EXISTING UTILITIES WILL NOT IMPACT AREA OPERATIONS.
18. BEFORE EXCAVATING ANY TRENCH 5 FEET OR MORE IN DEPTH, THE CONTRACTOR SHALL SUBMIT A DETAILED PLAN TO THE SCHOOL SHOWING THE DESIGN OF SHORING, BRACING, SLOPING, OR OTHER PROVISIONS TO BE MADE FOR THE WORKERS' PROTECTION FROM THE HAZARD OF CAVING GROUND DURING THE EXCAVATION OF SUCH TRENCH. IF THE PLAN VARIES FROM THE SHORING SYSTEM STANDARDS, THE PLAN SHALL BE PREPARED BY A REGISTERED CIVIL ENGINEER. NO EXCAVATION SHALL START UNTIL THE SCHOOL HAS ACCEPTED THE PLAN AND THE CONTRACTOR HAS OBTAINED A PERMIT FROM THE STATE DIVISION OF INDUSTRIAL SAFETY.
19. CONTRACTOR IS RESPONSIBLE TO KEEP ALL UTILITES OPERATIONAL THAT SERVES FACILITIES OUTSIDE THE SCOPE OF THE DEMOLITION ZONE. CONTRACTOR IS ALSO RESPONSIBLE TO REROUTE UTILITIES IF NECESSARY TO COMPLETE DEMOLITION.
20. CONTRACTOR SHALL INSTALL A TEMPORARY MINIMUM 8' HIGH CHAIN LINK CONSTRUCTION FENCE, WITH GREEN SCREEN, AROUND PERIMETER OF DEMOLITION AREA.
21. ALL EXISTING DRAINAGE STRUCTURES ON SITE SHALL BE PROTECTED AND REMAIN FUNCTIONAL DURING DEMOLITION AND THROUGH THE CONSTRUCTION PERIOD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THESE STRUCTURES, OR DAMAGE CAUSED TO ADJACENT PROPERTIES DUE TO THE OBSTRUCTION OF THESE STRUCTURES.

**NOTE TO CONRACTOR: REFER TO SECTION 3.2.2 OF THE PROJECT GEOTECHNICAL REPORT FOR REMOVALS, OVEREXCAVATION AND REMEDIAL GRADING REQUIREMENTS FOR THE NEW BUILDINGS AND SWIMMING POOL.**

**NOTE TO CONTRACTOR: BEFORE DEMOLTION OR TRENCHING OCCURS, THE CONTRACTOR SHALL COMPLETE AN UNDERGROUND UTILITY MAPPING SURVEY OF THE ENTIRE LIMITS OF WORK TO DETERMINE WERE EXISTING UTILITIES ARE AND WHERE POSSIBLE UNDERGROUND CONFLICTS MAY OCCUR.**

20 10 0 20 40 60

SCALE: 1" = 20'

## SITE DEMOLITION NOTES

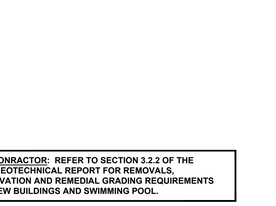
- (A) ADJUST EXISTING UTILITY BOX TO BE FLUSH WITH ULTIMATE FINISH SURFACE.
- (P) PROTECT EXISTING IMPROVEMENT IN PLACE.
- (P1) PROTECT EXTERIOR WALLS OF EXISTING BUILDING.
- (R) REMOVE & DISPOSE OF EXISTING IMPROVEMENT.
- (R1) REMOVE & DISPOSE OF EXISTING ASPHALT PAVEMENT.
- (R2) REMOVE & DISOSE OF EXISTING CONCRETE PAVEMENT.
- (R3) REMOVE & DISPOSE OF EXISTING CONCRETE CURB.
- (R4) REMOVE & DISPOSE OF EXISTING CONCRETE CURB AND GUTTER.
- (R5) REMOVE & DISPOSE OF EXISTING RETAINING WALL AND FOUNDATIONS.
- (R6) REMOVE & DISPOSE OF EXISTING CHAINLINK FENCE AND FOOTINGS.
- (R7) REMOVE & DISPOSE OF EXISTING CONCRETE SWALE.
- (R8) REMOVE & DISPOSE OF EXISTING BUILDING AND FOUNDATIONS.
- (R9) REMOVE & DISPOSE OF EXISTING CATCH BASIN.
- (R10) REMOVE & DISPOSE OF EXISTING LIGHT POLE CONCRETE FOUNDATION. SALVAGE & PROTECT EXISTING LIGHT POST AND FIXTURE
- (R11) REMOVE EXISTING GAS LINE.
- (R12) REMOVE & DISPOSE OF EXISTING 4" ROOF DRAIN UNDER SIDEWALK.
- (R13) REMOVE & DISPOSE OF EXISTING 8" SANITARY SEWER VITRIFIED CLAY PIPE.
- (R14) REMOVE & DISPOSE OF EXISTING 6" TRANSITE WATER LINE.
- (R15) REMOVE & DISPOSE OF EXISTING 4" / 6" SANITARY SEWER VITRIFIED CLAY PIPE.
- (R16) REMOVE & DISPOSE OF EXISTING SEWER CLEANOUT.
- (R17) REMOVE & DISPOSE OF EXISTING CONCRETE STAIRS.
- (R18) REMOVE & DISPOSE OF EXISTING LANDSCAPE / TREES & TREE ROOTS.
- (S) SAWCUT EXISTING PAVEMENT WITH CLEAN EDGE.

## UNDERGROUND UTILITY LINETYPE LEGEND

- SD — (E)STORM DRAIN
- W — (E)WATER
- SEW — (E)SANITARY SEWER
- G — (E)GAS
- E — (E)ELECTRICAL/POWER
- COMM — (E)COMMUNICATIONS
- U — (E)UNKNOWN UTILITY
- F — (E)FIRE WATER

## HATCH LEGEND:

- = REMOVE EXISTING CONCRETE PAVING (R2)
- = REMOVE EXISTING ASPHALT PAVING (R1)
- = PROTECT EXISTING CONCRETE
- = EXISTING BUILDING

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# CENTENNIAL HIGH SCHOOL AQUATICS CENTER

PROJECT ADDRESS:
1820 RIMPAU AVE.
CORONA, CA 92881

CONSTRUCTION DOCUMENTS
FILE #: 33-414 DSA APPLICATION #: 04-122268

Consultant

REGISTERED PROFESSIONAL ENGINEER ALAN WING-CHI LEE CIVIL STATE OF CALIFORNIA

FOR PLAN CHECK ONLY

Architect

CLIENT
CNUSD

| DATE | PROJECT NUMBER |
|---|---|
| 4/28/2023 | 220306 |

REVISIONS

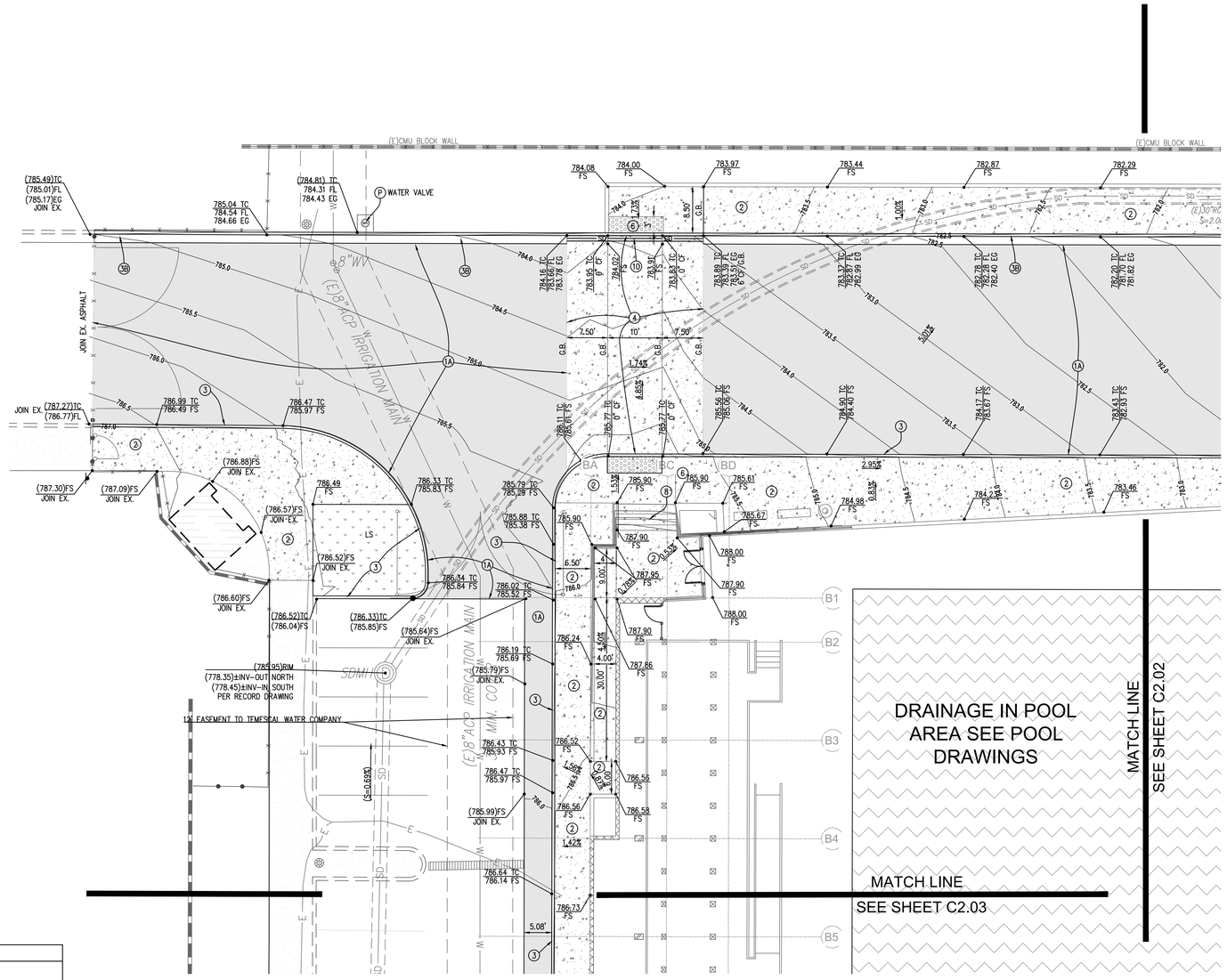
| No. | Description | Date |
|---|---|---|
| | | |

CONSTRUCTION DOCUMENTS

## DEMOLITION PLAN

C1.00

Plot Date: 5/2/2023 12:30:22 PM Last Save By: ron.conedy Login: Ron Conedy S:\Jobs\2777 - PBK\2777h - Centennial High School\Civil\Centennial HS C1.00 - Demolition Plan.dwg




## SITE CONSTRUCTION NOTES

| | |
|---|---|
| P | PROTECT EXISTING IMPROVEMENT IN PLACE. |
| 1 | CONSTRUCT ASPHALT PAVEMENT, TYPE I USE, PER TABLE 1 / C3.00. |
| 1A | CONSTRUCT ASPHALT PAVEMENT, TYPE II USE, PER TABLE 1 / C3.00. |
| 2 | CONSTRUCT CONCRETE PAVEMENT , TYPE I USE, PER TABLE 2 / C3.00. |
| 2A | CONSTRUCT CONCRETE PAVEMENT , TYPE II USE, PER TABLE 2 / C3.00. |
| 3 | CONSTRUCT CONCRETE CURB PER DETAIL 3 / C3.00. |
| 3A | CONSTRUCT CONCRETE ROLLED CURB PER DETAIL 3A / C3.01. |
| 3B | CONSTRUCT CONCRETE CURB & GUTTER PER DETAIL 3B / C3.01. |
| 4 | CONSTRUCT CONCRETE SPEED TABLE PER DETAIL 4 / C3.01. |
| 5 | CONSTRUCT CONCRETE RAMP PER GRADES SHOWN HEREON. |
| 6 | INSTALL TRUNCATED DOMES PER DETAIL 15/A0.4. |
| 7 | CONSTRUCT ROLLED CURB TRANSITION PER DETAIL 7 /C3.01. |
| 8 | CONSTRUCT CONCRETE STAIRS PER ARCHITECTURAL DETAIL 12/A0.3. |
| 9 | CONSTRUCT CONCRETE STAIRS PER ARCHITECTURAL DETAIL 9/A0.3. |
| 10 | INSTALL CURB-O-LET STEEL CULVERT, MODEL CP-SP312H FULL LENGTH OF SPEED CHANNEL, PER DETAIL 10/C3.01. BOTTOM OF CHANNEL SHALL BE FLUSH WITH CONCRETE GUTTER TO ALLOW STORM WATER TO PASS UNDER SPEED CHANNEL. |
| 0A | CONSTRUCT 10" SDR-35 PVC PIPE PER APPLICABLE TRENCHING DETAIL ON C3.00 |
| 0B | CONSTRUCT 4" SDR-35 PVC PIPE PER APPLICABLE TRENCHING DETAIL ON C3.00 |
| 0C | CONSTRUCT 8" SDR-35 PVC PIPE PER APPLICABLE TRENCHING DETAIL ON C3.00 |
| 01 | CONSTRUCT 24" SQUARE CATCH BASIN WITH TRAFFIC RATED, HEEL PROOF GRATE PER DETAIL D1/C3.01 |
| 02 | CONSTRUCT 24" SQUARE CATCH BASIN WITH PARKWAY RATED, ADA GRATE PER DETAIL D2/C3.01 |
| 03 | CONNECT STORM DRAIN TO EXISTING CATCH BASIN WITH APPROPRIATE FITTINGS. |
| 04 | STAINLESS STEEL COUPLING OR APPROVED EQUAL. |
| 05 | |

= PROPOSED CONCRETE PAVING
= PROPOSED ASPHALT PAVING
= PROPOSED BUILDING
= NEW SWIMMING POOL
= EXISTING BUILDING

(E)STORM DRAIN
(E)WATER
(E)SANITARY SEWER
(E)GAS
(E)ELECTRICAL/POWER
(E)COMMUNICATIONS
(E)UNKNOWN UTILITY
(E)FIRE WATER

**NOTE TO CONRACTOR:** REFER TO SECTION 3.2.2 OF THE PROJECT GEOTECHNICAL REPORT FOR REMOVALS, OVEREXCAVATION AND REMEDIAL GRADING REQUIREMENTS FOR THE NEW BUILDINGS AND SWIMMING POOL.

**NOTE TO CONTRACTOR:** BEFORE DEMOLTION OR TRENCHING OCCURS, THE CONTRACTOR SHALL COMPLETE AN UNDERGROUND UTILITY MAPPING SURVEY OF THE ENTIRE LIMITS OF WORK TO DETERMINE WERE EXISTING UTILITIES ARE AND WHERE POSSIBLE UNDERGROUND CONFLICTS MAY OCCUR.

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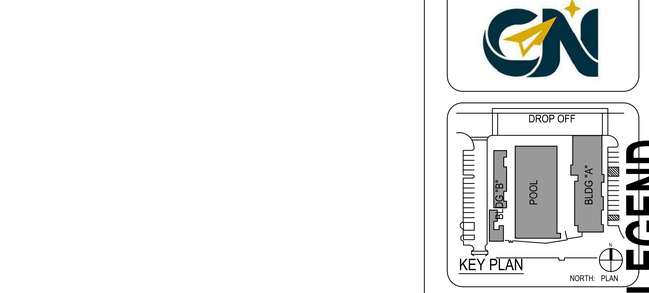
# CENTENNIAL HIGH SCHOOL AQUATICS CENTER

PROJECT ADDRESS:
1820 RIMPAU AVE.
CORONA, CA 92881

CONSTRUCTION DOCUMENTS
FILE #: 33-44 DSA APPLICATION #: 04-122308




Consultant
ALAN WING-CHI LEE
No. C 49 RENEWAL 08/31/2024
CIVIL
STATE OF CALIFORNIA
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Architect

CLIENT
CNUSD

| DATE | PROJECT NUMBER |
|---|---|
| 4/28/2023 | 220306 |

REVISIONS

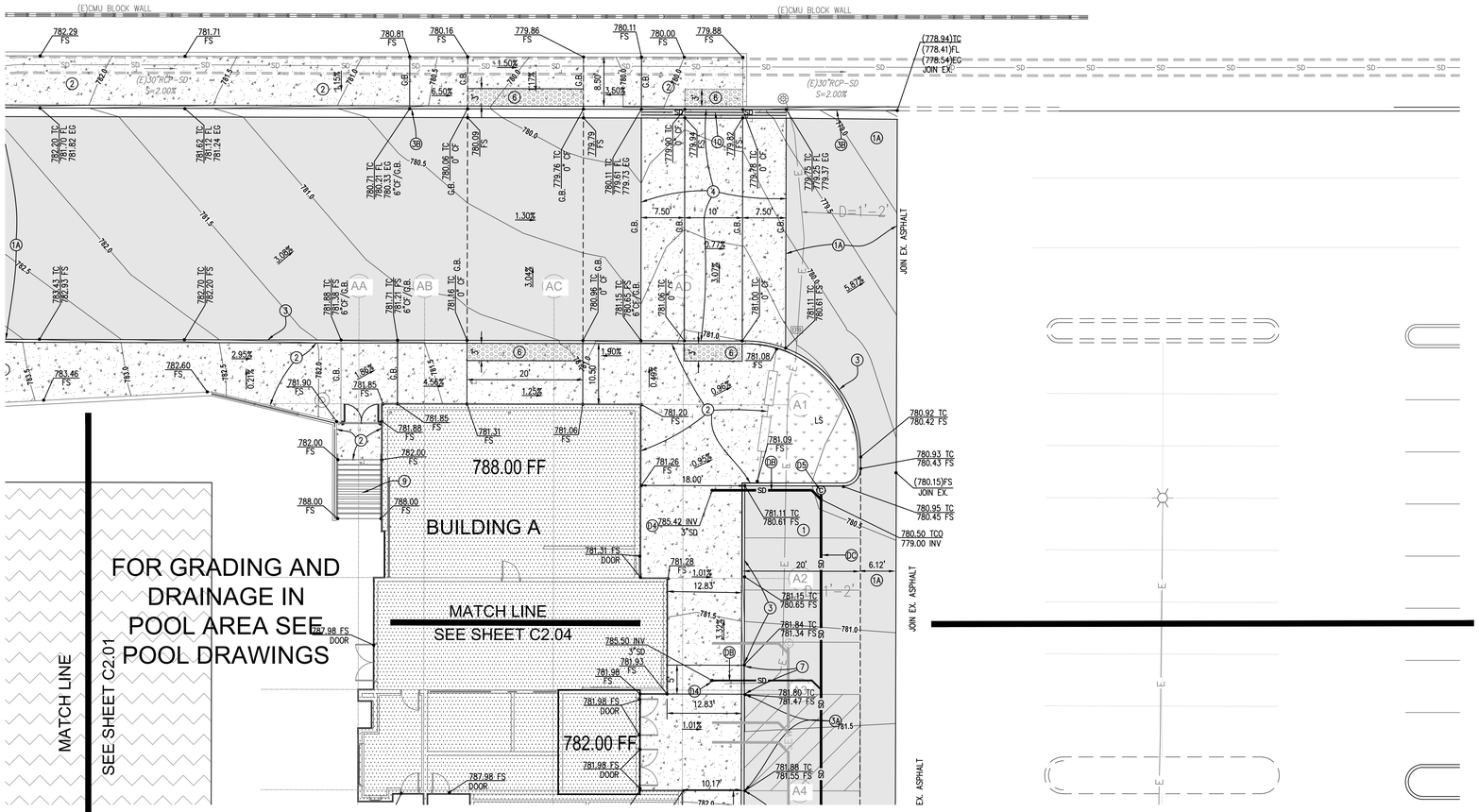
| Description | Date |
|---|---|
| | |

# GRADING & DRAINAGE PLAN

C2.01

UNDERGROUND UTILITY LINE LEGEND

Plot Date: 5/2/2023 2:26:38 PM Last Save By: colin.tsui Login: Colin Tsui S:\Jobs\2777 – PBK\2777tt – Centennial High School\Civil\Centennial HS C2.01 – Grading Plan.dwg









## SITE CONSTRUCTION NOTES

- (P) PROTECT EXISTING IMPROVEMENT IN PLACE.
- (1) CONSTRUCT ASPHALT PAVEMENT, TYPE I USE, PER TABLE 1 / C3.00.
- (1A) CONSTRUCT ASPHALT PAVEMENT, TYPE II USE, PER TABLE 1 / C3.00.
- (2) CONSTRUCT CONCRETE PAVEMENT , TYPE I USE, PER TABLE 2 / C3.00.
- (2A) CONSTRUCT CONCRETE PAVEMENT , TYPE II USE, PER TABLE 2 / C3.00.
- (3) CONSTRUCT CONCRETE CURB PER DETAIL 3 / C3.00.
- (3A) CONSTRUCT CONCRETE ROLLED CURB PER DETAIL 3A / C3.01.
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- (10) INSTALL CURB-O-LET STEEL CULVERT, MODEL CP-SP312H FULL LENGTH OF SPEED CHANNEL, PER DETAIL 10/C3.01, BOTTOM OF CHANNEL SHALL BE FLUSH WITH CONCRETE GUTTER TO ALLOW STORM WATER TO PASS UNDER SPEED CHANNEL.

## STORM DRAIN CONSTRUCTION NOTES

- (DA) CONSTRUCT 10" SDR-35 PVC PIPE PER APPLICABLE TRENCHING DETAIL ON C3.00
- (DB) CONSTRUCT 4" SDR-35 PVC PIPE PER APPLICABLE TRENCHING DETAIL ON C3.00
- (DC) CONSTRUCT 8" SDR-35 PVC PIPE PER APPLICABLE TRENCHING DETAIL ON C3.00
- (D1) CONSTRUCT 24" SQUARE CATCH BASIN WITH TRAFFIC RATED, HEEL PROOF GRATE PER DETAIL D1/C3.01
- (D2) CONSTRUCT 24" SQUARE CATCH BASIN WITH PARKWAY RATED, ADA GRATE PER DETAIL D2/C3.01
- (D3) CONNECT STORM DRAIN TO EXISTING CATCH BASIN WITH APPROPRIATE FITTINGS.
- (D4) CONNECT TO BUILDING STORM DRAIN WITH ANACO-HUSKY 2000 STAINLESS STEEL COUPLING OR APPROVED EQUAL.
- (D5) CONSTRUCT STORM DRAIN CLEANOUT & YARD BOX PER DETAIL S6/C5.00.

**HATCH LEGEND:**

- = PROPOSED CONCRETE PAVING
- = PROPOSED ASPHALT PAVING
- = PROPOSED BUILDING
- = NEW SWIMMING POOL
- = EXISTING BUILDING

**UNDERGROUND UTILITY LINETYPE LEGEND**

- (E)STORM DRAIN
- (E)WATER
- (E)SANITARY SEWER
- (E)GAS
- (E)ELECTRICAL/POWER
- (E)COMMUNICATIONS
- (E)UNKNOWN UTILITY
- (E)FIRE WATER
- PROPOSED FIRE WATER
- PROPOSED SANITARY SEWER
- PROPOSED STORM DRAIN

**NOTE TO CONRACTOR:** REFER TO SECTION 3.2.2 OF THE PROJECT GEOTECHNICAL REPORT FOR REMOVALS, OVEREXCAVATION AND REMEDIAL GRADING REQUIREMENTS FOR THE NEW BUILDINGS AND SWIMMING POOL.

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# CENTENNIAL HIGH SCHOOL AQUATICS CENTER

**PROJECT ADDRESS:**
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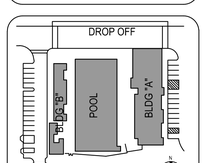
**CONSTRUCTION DOCUMENTS**
FILE #: 33-44 DSA APPLICATION #: 04-122208




Consultant

REGISTERED PROFESSIONAL ENGINEER ALAN WYNG-CHI LEE CIVIL STATE OF CALIFORNIA
FOR PLAN CHECK ONLY

Architect

CLIENT
CNUSD

| DATE | PROJECT NUMBER |
|---|---|
| 4/28/2023 | 220306 |

REVISIONS

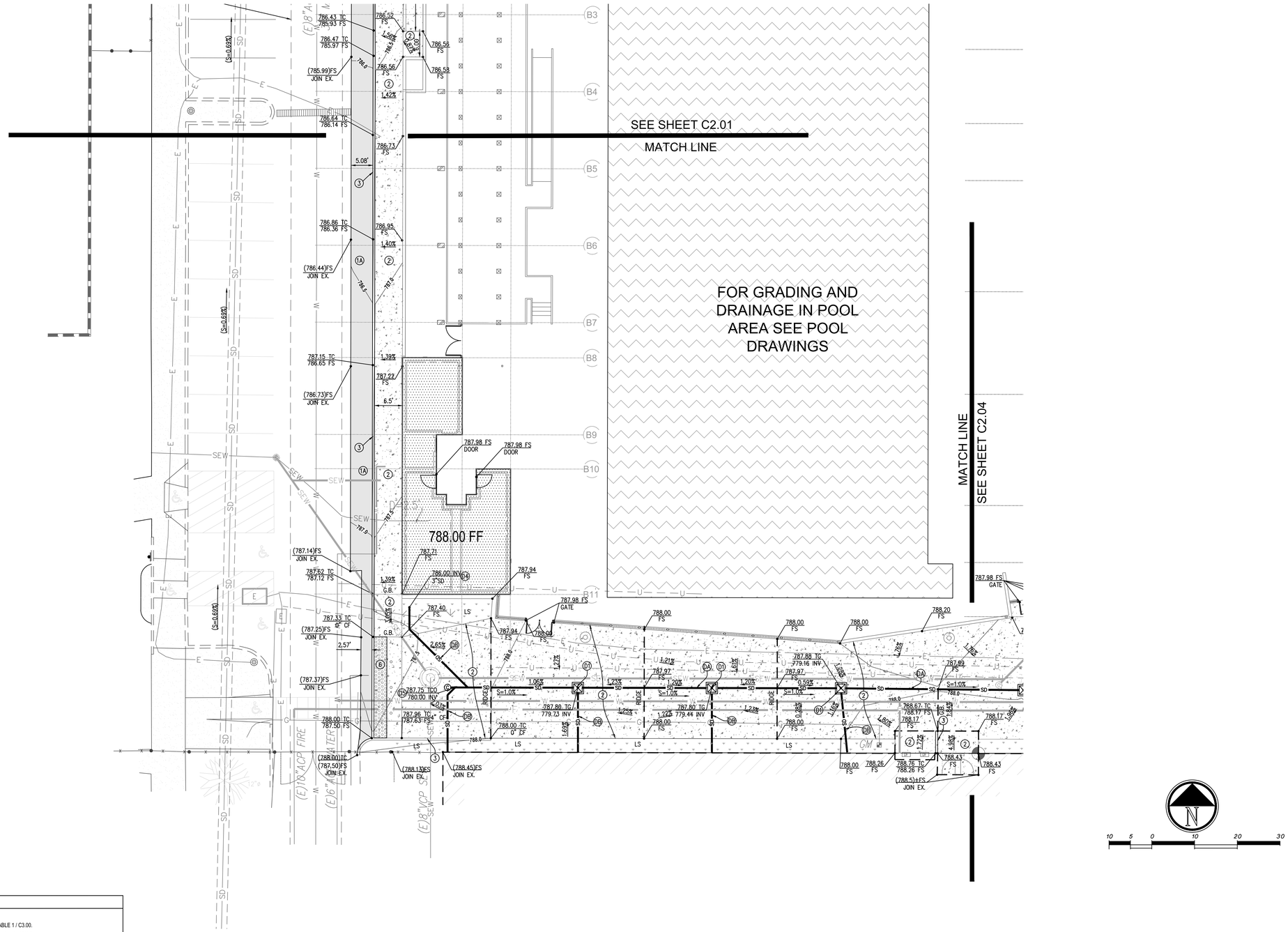
| | Description | Date |
|---|---|---|
| | | |

## GRADING & DRAINAGE PLAN

C2.02

FOR GRADING AND


Plot Date: 5/16/2023 9:36:12 AM Last Save By: colin.tsui Login: Colin Tsui S:\Jobs\2777 - PBK\2777tt - Centennial High School\Civil\Centennial HS C2.02 - Grading Plan.dwg

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| D3 | CONNECT STORM DRAIN TO EXISTING CATCH BASIN WITH APPROPRIATE FITTINGS. |
| D4 | STAINLESS STEEL COUPLING OR APPROVED EQUAL. |
| D5 | |

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PROPOSED FIRE WATER
PROPOSED STORM DRAIN
PROPOSED WATER

**NOTE TO CONRACTOR: REFER TO SECTION 3.2.2 OF THE PROJECT GEOTECHNICAL REPORT FOR REMOVALS, OVEREXCAVATION AND REMEDIAL GRADING REQUIREMENTS FOR THE NEW BUILDINGS AND SWIMMING POOL.**

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FILE #: 33-44 DSA APPLICATION #: 04-122208

DROP OFF
BLDG "B"
POOL
BLDG "A"
KEY PLAN
NORTH: PLAN

Consultant
REGISTERED PROFESSIONAL ENGINEER ALAN WING-CHI LEE CIVIL STATE OF CALIFORNIA
FOR PLAN CHECK ONLY
NOT FOR CONSTRUCTION
Alan Wing-Chi Lee

Architect

CLIENT
CNUSD

| DATE | PROJECT NUMBER |
|---|---|
| 4/28/2023 | 220306 |

REVISIONS

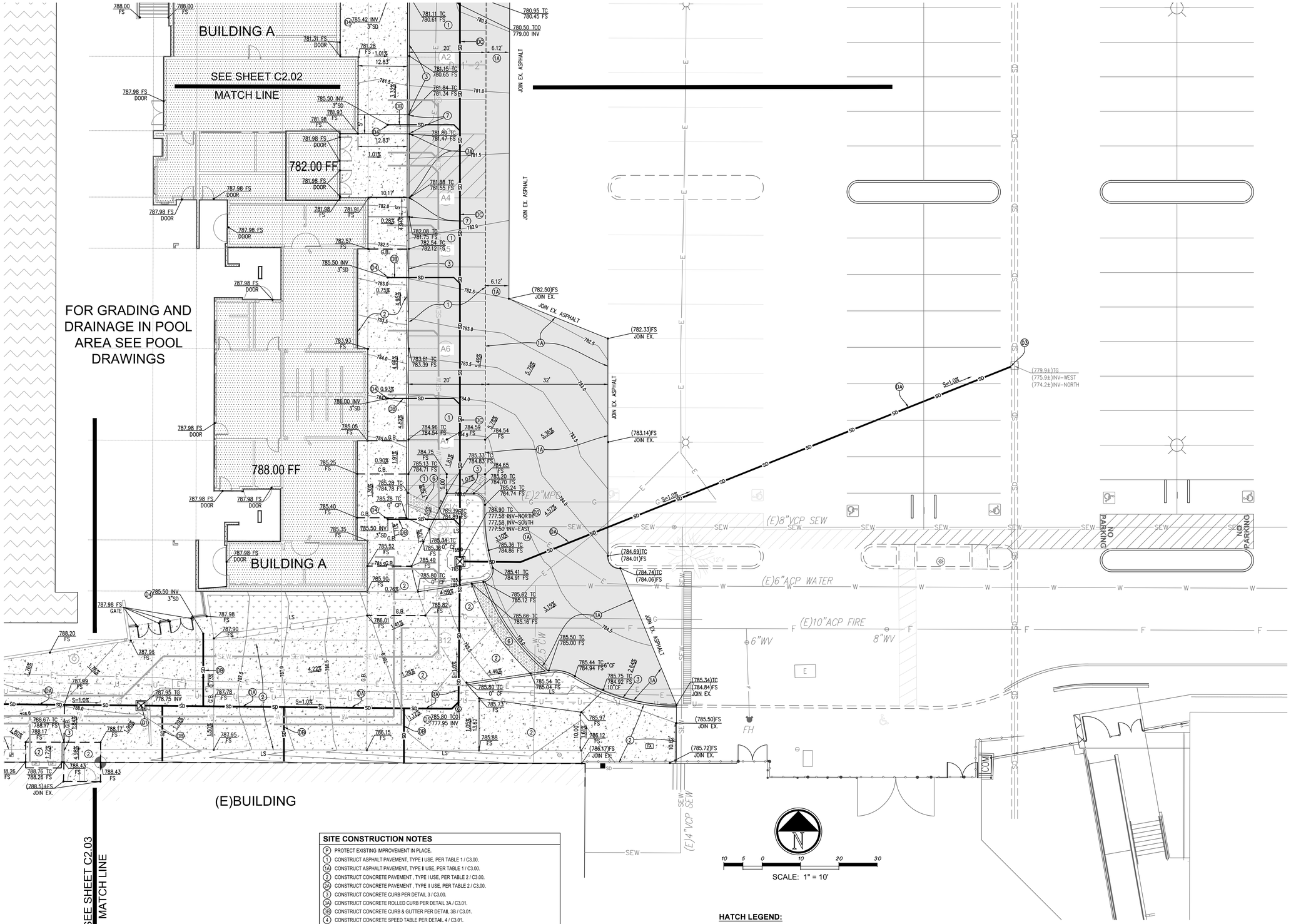
| Description | Date |
|---|---|
| | |

# GRADING & DRAINAGE PLAN

# C2.03

UNDERGROUND UTILITY LINE LEGEND

Plot Date: 5/2/2023 2:31:31 PM Last Save By: colin.tsui Login: Colin Tsui S:\Jobs\2777 - PBK\2777tt - Centennial High School\Civil\Centennial HS C2.03 - Grading Plan.dwg




## SITE CONSTRUCTION NOTES

- (P) PROTECT EXISTING IMPROVEMENT IN PLACE.
- (1) CONSTRUCT ASPHALT PAVEMENT, TYPE I USE, PER TABLE 1 / C3.00.
- (1A) CONSTRUCT ASPHALT PAVEMENT, TYPE II USE, PER TABLE 1 / C3.00.
- (2) CONSTRUCT CONCRETE PAVEMENT , TYPE I USE, PER TABLE 2 / C3.00.
- (2A) CONSTRUCT CONCRETE PAVEMENT , TYPE II USE, PER TABLE 2 / C3.00.
- (3) CONSTRUCT CONCRETE CURB PER DETAIL 3 / C3.00.
- (3A) CONSTRUCT CONCRETE ROLLED CURB PER DETAIL 3A / C3.01.
- (3B) CONSTRUCT CONCRETE CURB & GUTTER PER DETAIL 3B / C3.01.
- (4) CONSTRUCT CONCRETE SPEED TABLE PER DETAIL 4 / C3.01.
- (5) CONSTRUCT CONCRETE RAMP PER GRADES SHOWN HEREON.
- (6) INSTALL TRUNCATED DOMES PER DETAIL 15/A0.4.
- (7) CONSTRUCT ROLLED CURB TRANSITION PER DETAIL 7 /C3.01.
- (8) CONSTRUCT CONCRETE STAIRS PER ARCHITECTURAL DETAIL 12/A0.3.
- (9) CONSTRUCT CONCRETE STAIRS PER ARCHITECTURAL DETAIL 9/A0.3.
- (10) INSTALL CURB-O-LET STEEL CULVERT, MODEL CP-SP312H FULL LENGTH OF SPEED CHANNEL, PER DETAIL 10/C3.01, BOTTOM OF CHANNEL SHALL BE FLUSH WITH CONCRETE GUTTER TO ALLOW STORM WATER TO PASS UNDER SPEED CHANNEL.

## STORM DRAIN CONSTRUCTION NOTES

- (DA) CONSTRUCT 10" SDR-35 PVC PIPE PER APPLICABLE TRENCHING DETAIL ON C3.00
- (DB) CONSTRUCT 4" SDR-35 PVC PIPE PER APPLICABLE TRENCHING DETAIL ON C3.00
- (DC) CONSTRUCT 8" SDR-35 PVC PIPE PER APPLICABLE TRENCHING DETAIL ON C3.00
- (D1) CONSTRUCT 24" SQUARE CATCH BASIN WITH TRAFFIC RATED, HEEL PROOF GRATE PER DETAIL D1/C3.01
- (D2) CONSTRUCT 24" SQUARE CATCH BASIN WITH PARKWAY RATED, ADA GRATE PER DETAIL D2/C3.01
- (D3) CONNECT STORM DRAIN TO EXISTING CATCH BASIN WITH APPROPRIATE FITTINGS.
- (D4) CONNECT TO BUILDING STORM DRAIN WITH ANACO-HUSKY 2000 STAINLESS STEEL COUPLING OR APPROVED EQUAL.
- (D5) CONSTRUCT STORM DRAIN CLEANOUT & YARD BOX PER DETAIL S6/C5.00.

## HATCH LEGEND:

- = PROPOSED CONCRETE PAVING
- = PROPOSED ASPHALT PAVING
- = PROPOSED BUILDING
- = NEW SWIMMING POOL
- = EXISTING BUILDING

## UNDERGROUND UTILITY LINETYPE LEGEND

- (E)STORM DRAIN
- (E)WATER
- (E)SANITARY SEWER
- (E)GAS
- (E)ELECTRICAL/POWER
- (E)COMMUNICATIONS
- (E)UNKNOWN UTILITY
- (E)FIRE WATER
- PROPOSED FIRE WATER
- PROPOSED SANITARY SEWER
- PROPOSED STORM DRAIN

**NOTE TO CONRACTOR:** REFER TO SECTION 3.2.2 OF THE PROJECT GEOTECHNICAL REPORT FOR REMOVALS, OVEREXCAVATION AND REMEDIAL GRADING REQUIREMENTS FOR THE NEW BUILDINGS AND SWIMMING POOL.

**NOTE TO CONTRACTOR:** BEFORE DEMOLITION OR TRENCHING OCCURS, THE CONTRACTOR SHALL COMPLETE AN UNDERGROUND UTILITY MAPPING SURVEY OF THE ENTIRE LIMITS OF WORK TO DETERMINE WERE EXISTING UTILITIES ARE AND WHERE POSSIBLE UNDERGROUND CONFLICTS MAY OCCUR.

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# CENTENNIAL HIGH SCHOOL AQUATICS CENTER

PROJECT ADDRESS:
1820 RIMPAU AVE.
CORONA, CA 92881

CONSTRUCTION DOCUMENTS
FILE #: 33-44 DSA APPLICATION #: 04-122208

DROP OFF
POOL
BLDG "A"
KEY PLAN
NORTH: PLAN

Consultant
REGISTERED PROFESSIONAL ENGINEER ALAN WING-CHI LEE CIVIL STATE OF CALIFORNIA
FOR PLAN CHECK ONLY
Alan Wing-Chi Lee

Architect

CLIENT
CNUSD

| DATE | PROJECT NUMBER |
|---|---|
| 4/28/2023 | 220306 |

REVISIONS

| Description | Date |
|---|---|
| | |

GRADING & DRAINAGE PLAN

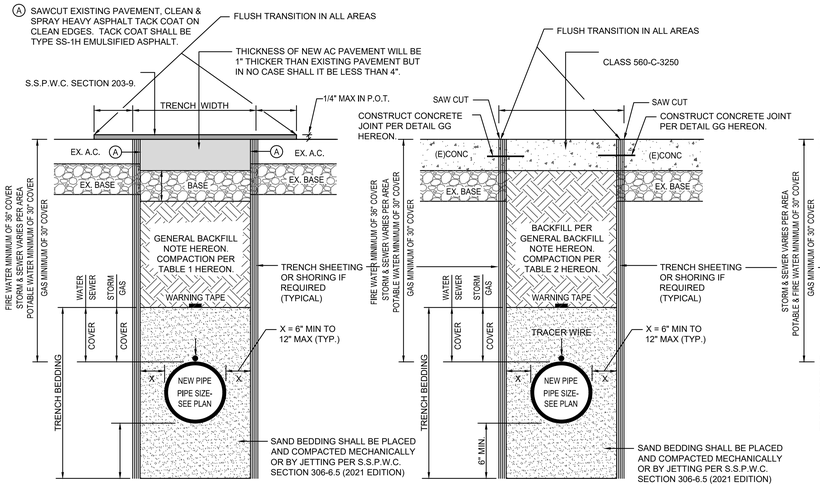
C2.04

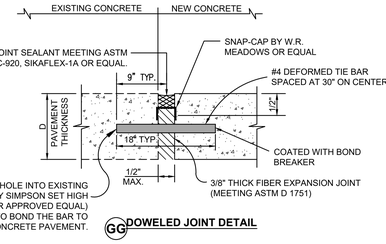
UNDERGROUND UTILITY LINE PLEGEND

Plot Date: 5/16/2023 9:27:51 AM Last Save By: colin.tsui Login: Colin Tsui S:\Jobs\2777 - PBK\2777tt - Centennial High School\Civil\Centennial HS C2.04 - Grading Plan.dwg

# UTILITY TRENCHING DETAILS

NOT TO SCALE




GG **DOWELED JOINT DETAIL**

**TRACER WIRE NOTES:**

COPPER TRACER WIRE SHALL BE INSTALLED ON ALL NON-METALLIC PIPELINES, 2" AND GREATER, JUST ABOVE THE HORIZONTAL CENTERLINE OF THE PIPE. THE COPPER WIRE SHALL BE TYPE THWN #12 AWG GAUGE FOR SEWER, STORM & POTABLE WATER, #14 AWG GAUGE FOR IRRIGATION PIPES AND #18 AWG GAUGE FOR POLYETHYLENE GAS LINES. ALL TRACER WIRE SHALL HAVE HEAT AND MOISTURE RESISTANT INSULATION.

**TRENCH EXCAVATION, BEDDING, & BACKFILL NOTES:**

EXCAVATION NOTE: THE 2019 CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH REGULATIONS (CAL/OSHA) WILL REQUIRE A PERMIT FOR THE CONSTRUCTION OF TRENCHES OR EXCAVATIONS WHICH ARE FIVE (5) FEET OR DEEPER AND INTO WHICH A PERSON IS REQUIRED TO DESCEND. FOR PERMIT PURPOSES, "DESCEND" MEANS TO ENTER ANY PART OF THE TRENCH OR EXCAVATION ONCE THE EXCAVATION HAS ATTAINED A DEPTH OF 5 FEET OR MORE. FOR REGULATIONS RELATING TO PERMITS FOR EXCAVATIONS AND TRENCHES, REFER TO THE CALIFORNIA CODE OF REGULATIONS TITLE 8, CHAPTER 3.2, ARTICLE 2, SECTION 341 OF THE CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH REGULATIONS (CAL/OSHA)

THE CONTRACTOR SHALL SUBMIT A DETAIL SHOWING THE DESIGN OR SHORING; BRACING SLOPING OR OTHER PROVISIONS TO BE MADE FOR WORKER PROTECTION FROM THE HAZARDS OF CAVING GROUND DURING THE EXCAVATION. THE PLAN SUBMITTED SHALL BE SIGNED BY A REGISTERED CIVIL OR STRUCTURAL ENGINEER CERTIFIED THAT THE PLAN COMPLIES WITH ALL OSHA CONSTRUCTION SAFETY ORDERS.

BEDDING MATERIAL SHALL BE COARSE SAND WITH SAND EQUIVALENT OF 40 OR GREATER. NO ANGULAR STONES OR PEA GRAVELS WILL BE ALLOWED IN PIPE BEDDING.

COMPACTION METHODS: ALL BEDDING & BACKFILL COMPACTION SHALL BE BY HAND-OPERATED, PLATE-TYPE, VIBRATORY, OR OTHER SUITABLE HAND-TAMPERS IN AREAS NOT ACCESSIBLE TO LARGER ROLLERS OR COMPACTERS. EXTREME CARE SHALL BE TAKEN TO AVOID DAMAGE TO CONDUITS, PIPES, AND ANY APPURTENANCES. BACKFILL DENSIFICATION BY INUNDATION OR JETTING SHALL NOT BE PERMITTED WITHOUT PRIOR WRITTEN APPROVAL FROM CIVIL ENGINEER. SAND BEDDING SHALL BE PLACED AND COMPACTED MEETING S.S.P.W.C. SECTION 306-6.5 PLACEMENT AND COMPACTION, 2021 EDITION.

SHEETING: WHEN EXCAVATION DEPTHS OR SOIL CONDITIONS REQUIRE SHORING OR USE OF A TRENCH BOX, THE BOTTOM OF THE SHORING OR TRENCH BOX SHOULD BE PLACED NO LOWER THEN THE TOP OF THE PIPE. THIS PREVENTS DISRUPTION OF THE BACKFILL ENVELOPE WHEN REMOVING THE SHORING OR TRENCH BOX. IF THIS PRACTICE CANNOT BE FOLLOWED, CONSIDERATION SHOULD BE GIVEN TO LEAVING THE SHORING IN PLACE.

**GENERAL BACKFILL NOTES:**

AND STONES LARGER THAN 3-INCHES IN ANY DIMENSION. INSTALL BACKFILL MATERIALS IN LAYERS NOT TO EXCEED 8 TO 10-INCHES IN THICKNESS AND COMPACT TO A MINIMUM 90% OF THE MAXIMUM DENSITY. IN LIEU OF USING NATIVE MATERIAL IN PAVED AREAS, THE USE OF A SLURRY BACKFILL MAY BE SUBSTITUTED. SAND SLURRY SHALL CONSIST OF 1 SACK PORTLAND CEMENT (CLASS 100-E-100) PER CUBIC YARD OF SAND SLURRY MIX. THE CONTRACTOR IS RESPONSIBLE FOR DISPOSAL OF ANY EXCESS BACKFILL MATERIAL FROM THE SITE.

**WARNING TAPE NOTES (POTABLE WATER):**

A METALLIC LINED TAPED FOR UNDERGROUND PIPES, MARKED "CAUTION BURIED WATER LINE BELOW", IN POLYETHYLENE FILM COLOR BLUE, INSTALLED ABOVE PIPE, MINIMUM 2" WIDE.

**WARNING TAPE NOTES (GAS):**

A METALLIC LINED TAPED FOR UNDERGROUND PIPES, MARKED "CAUTION GAS LINE BELOW", IN POLYETHYLENE FILM COLOR YELLOW, INSTALLED ABOVE PIPE, MINIMUM 2" WIDE.

**WARNING TAPE NOTES (STORM DRAIN):**

A METALLIC LINED TAPED FOR UNDERGROUND PIPES, MARKED "CAUTION STORM DRAIN LINE BELOW", IN POLYETHYLENE FILM COLOR GREEN, INSTALLED ABOVE PIPE, 6" WIDE.

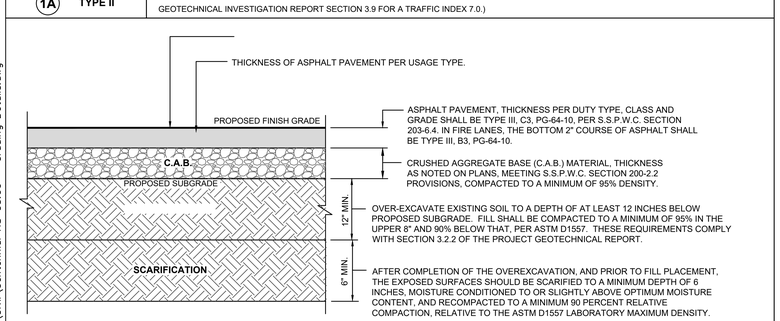
**WARNING TAPE NOTES (SANITARY SEWER):**

A METALLIC LINED TAPED FOR UNDERGROUND PIPES, MARKED "CAUTION BURIED SEWER LINE BELOW", IN POLYETHYLENE FILM COLOR GREEN, INSTALLED ABOVE PIPE, 6" WIDE.

**WARNING TAPE NOTES (FIRE WATER):**

A METALLIC LINED TAPED FOR UNDERGROUND PIPES, MARKED "CAUTION FIRE LINE BELOW", IN POLYETHYLENE FILM COLOR RED, INSTALLED ABOVE PIPE, MINIMUM 2" WIDE.

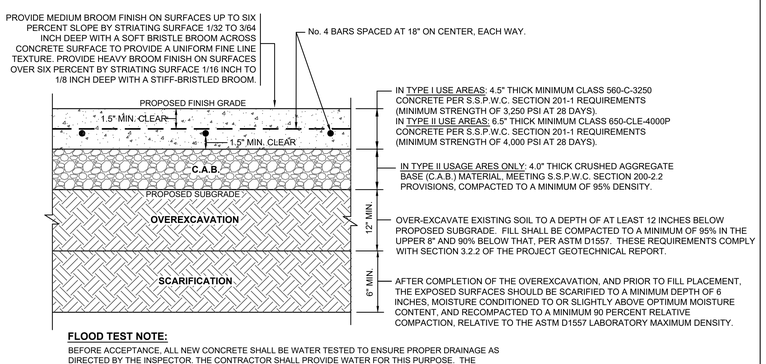
| DUTY TYPE | TABLE 1: ASPHALT PAVEMENT STRUCTURAL SECTION |
|---|---|
| 1 TYPE I | 3.0" THICK ASPHALT PAVEMENT OVER 4.0" THICK C.A.B. PER DETAIL BELOW. (THIS PAVEMENT SECTION COMPLIES WITH THE PROJECT'S GEOTECHNICAL INVESTIGATION REPORT SECTION 3.9 FOR A TRAFFIC INDEX 5.0 OR LESS.) |
| 1A TYPE II | GEOTECHNICAL INVESTIGATION REPORT SECTION 3.9 FOR A TRAFFIC INDEX 7.0.) |




**FLOOD TEST NOTE:**

BEFORE ACCEPTANCE, ALL NEW ASPHALT SHALL BE WATER TESTED TO ENSURE PROPER DRAINAGE AS DIRECTED BY THE INSPECTOR. THE CONTRACTOR SHALL PROVIDE WATER FOR THIS PURPOSE. THE FLOODING SHALL BE DONE BY WATER TANK TRUCK. DEPRESSIONS WHERE THE WATER PONDS TO A DEPTH OF MORE THAN 0.01 FOOT SHALL BE FILLED WITH TYPE E ASPHALT MIX OR THE SLOPE CORRECTED TO PROVIDE PROPER DRAINAGE. THE EDGES OF THE FILL SHALL BE FEATHERED AND SMOOTHED SO THAT THE JOINT BETWEEN THE FILL AND THE ORIGINAL SURFACE IS INVISIBLE. PRACTICAL FIELD MEASUREMENT: 0.01 FOOT = TWO QUARTERS STACKED. NO STANDING WATER SHALL REMAIN AFTER 60 MINUTES ON A 70 DEGREE F (OR WARMER) DAY. INSTALL FIRST COAT OF SEAL COAT ON ASPHALT BEFORE FLOOD TESTING OCCURS.

| DUTY TYPE | TABLE 2: CONCRETE PAVEMENT STRUCTURAL SECTION |
|---|---|
| 2 TYPE I | 4.5" THICK CONCRETE PAVEMENT OVER COMPACTED SUBGRADE PER DETAIL BELOW. (THIS PAVEMENT SECTION COMPLIES WITH THE PROJECT'S GEOTECHNICAL INVESTIGATION REPORT, SECTION 3.9, FOR CONCRETE FLATWORK.) |
| 2A TYPE II | 6.5" THICK CONCRETE PAVEMENT OVER 4.0" THICK C.A.B. PER DETAIL BELOW. (THIS PAVEMENT SECTION COMPLIES WITH THE PROJECTS GEOTECHNICAL INVESTIGATION REPORT, SECTION 3.9, FOR VEHICULAR TRAFFIC.) |

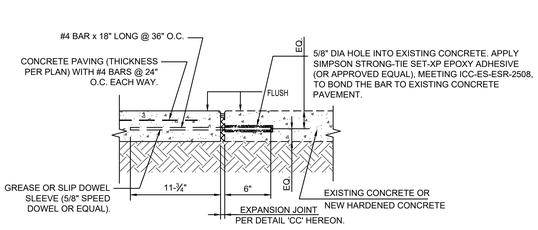



**FLOOD TEST NOTE:**

BEFORE ACCEPTANCE, ALL NEW CONCRETE SHALL BE WATER TESTED TO ENSURE PROPER DRAINAGE AS DIRECTED BY THE INSPECTOR. THE CONTRACTOR SHALL PROVIDE WATER FOR THIS PURPOSE. THE FLOODING SHALL BE DONE BY WATER TANK TRUCK. DEPRESSIONS WHERE THE WATER PONDS TO A DEPTH OF MORE THAN 0.01 FOOT SHALL BE FILLED OR THE SLOPE CORRECTED TO PROVIDE PROPER DRAINAGE. THE EDGES OF THE FILL SHALL BE FEATHERED AND SMOOTHED SO THAT THE JOINT BETWEEN THE FILL AND THE ORIGINAL SURFACE IS INVISIBLE. PRACTICAL FIELD MEASUREMENT: 0.01 FOOT = TWO QUARTERS STACKED. NO STANDING WATER SHALL REMAIN AFTER 60 MINUTES ON A 70 DEGREE F (OR WARMER) DAY.

NOTE TO CONTRACTOR:
A. THE CONTRACTOR SHALL INSTALL EXPANSION AND CONTROL JOINTS IN CONCRETE FLATWORK AT LOCATIONS NOTED ON THE ARCHITECTURAL PLANS FOLLOWING DETAILS 'AA' THRU 'CC' HEREON.
B. CONTRACTOR SHALL FOLLOW DETAILS 'DD' THRU 'FF' HEREON WHEN CONSTRUCTING CONCRETE FLATWORK EDGE TREATMENTS.

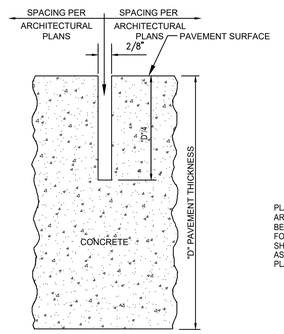
**NOTE: FOR JOINT DETAILS IN POOL DECK SEE SHEET SP.12**




NOTE: 1. VERTICAL CHANGE IN ELEVATION ALONG ACCESSIBLE PATH OF TRAVEL CANNOT EXCEED 1/4" PER CBC 11B-303.2

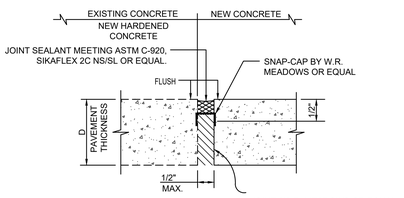
2. LEVEL CHANGE BETWEEN 1/4"-1/2" MUST BE BEVELED AT 1:2 MAX PER CBC 11B-303.3

AA **EXPANSION JOINT (E.J.) WITH REBAR**
NOT TO SCALE

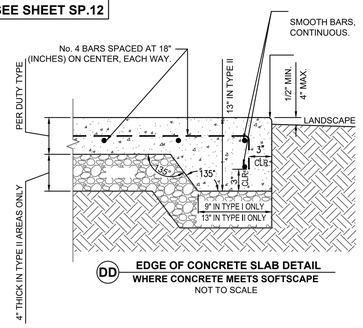



BB **CONTROL JOINT (C.J.)**
NOT TO SCALE

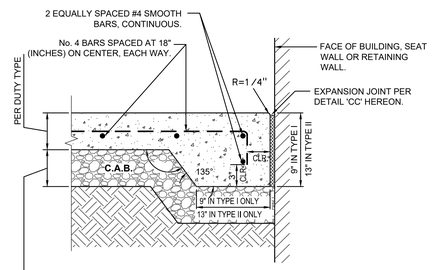
**NOTE: FOR JOINT DETAILS IN POOL DECK SEE SHEET SP.12**



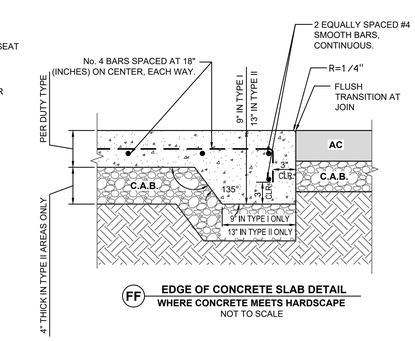

CC **EXPANSION JOINT (E.J.)**
NOT TO SCALE



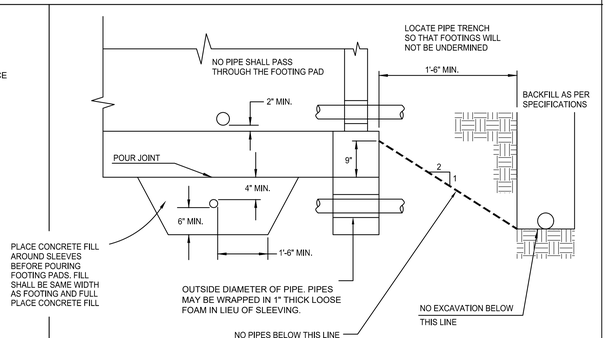

DD **EDGE OF CONCRETE SLAB DETAIL**
**WHERE CONCRETE MEETS SOFTSCAPE**
NOT TO SCALE




EE **EDGE OF CONCRETE SLAB DETAIL**
**WHERE CONCRETE MEETS FACE OF BUILDING OR WALLS**
NOT TO SCALE

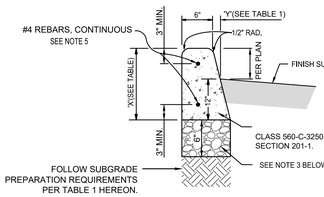



FF **EDGE OF CONCRETE SLAB DETAIL**
**WHERE CONCRETE MEETS HARDSCAPE**
NOT TO SCALE




**TYPICAL PIPE TRENCH / FOOTING DETAIL**

| CURB FACE | | 2" | 4" | | | |
|---|---|---|---|---|---|---|
| "X" | 12" | 14" | 16" | 17" | 18" | 20" |
| "Y" | 0" | 0.5" | 1" | 1.25" | 1.5" | 2" |




3 **CONCRETE CURB DETAIL**

1. ALL EXPOSED EDGES SHALL HAVE A 1/2" RADIUS.
2. EXPANSION JOINTS AT 30' INTERVALS, AND AT DRIVE APPROACHES, B.C.'S, E.C.'S, CROSS GUTTERS AND CATCH BASIN TRANSITIONS PER JOINT DETAILS ON HEREON.
3. A 6" THICK LAYER OF CRUSHED AGGREGATE BASE SHALL BE PLACED UNDER ALL CURB. MINIMUM COMPACTION OF 95% OFF AGGREGATE BASE IS REQUIRED UNLESS WAIVED BY THE CIVIL ENGINEER.
4. CONCRETE CURB SHALL BE MINIMUM CLASS 560-C-3250 PER S.S.P.W.C. SECTION 201-1.
5.


PBK

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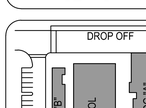
**CENTENNIAL HIGH SCHOOL AQUATICS CENTER**

**PROJECT ADDRESS:** 1820 RIMPAU AVE CORONA, CA 92881

**CONSTRUCTION DOCUMENTS** DSA APPLICATION #: 04-122206
FILE #: 33-44




Consultant




Architect

CLIENT
CNUSD

DATE 4/28/2023
PROJECT NUMBER 220306

REVISIONS

| | Description | Date |
|---|---|---|
| | | |

**DETAIL SHEET**

**C3.00**

THICK C.A.B. PER DETAIL BELOW

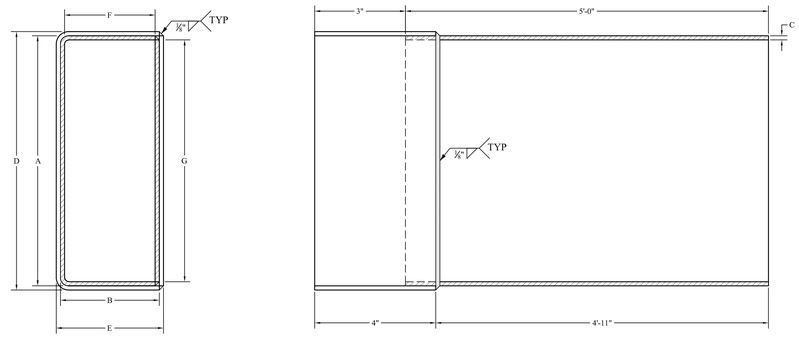
THIS PAVEMENT OVER 4.0" THICK ASPHALT PAVEMENT OVER 4.0"


Plot Date: 5/1/2023 2:37:53 PM Last Save By: ron.canedy Login: Colin Tsui S:\Jobs\2777 – PBK\2777kt – Centennial High School\Civil\Centennial HS C3.00 – Grading Details.dwg

# RECTANGULAR CHANNEL DETAIL

APPROVED BY THE CITY OF LOS ANGELES
BUREAU OF ENGINEERING/PUBLIC WORKS

CP - SP305H / CP - SP308H /
CP - SP312H / CP - SP414H




| PRODUCT SPECIFICATION - HUB PIPE | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| PRODUCT LIST | | | | PRODUCT DIMENSIONS | | | | | | |
| MODEL | DIMENSIONS | ROUND EQUIV | ROUND TRANSVERSE AREA (SQ. IN.) | A | B | C | D | E | F | G |
| CP-SP305H | 3" X 5" X 5' | 4" | 12.724 | 5.269" | 3.269" | 10 GA. | 5.50" | 3.5" | 3" | 5" |
| CP-SP308H | 3" X 8" X 5' | 5" | 20.040 | 8.269" | 3.269" | 10 GA. | 8.50" | 3.5" | 3" | 8" |
| CP-SP312H | 3" X 12" X 5' | 6" | 28.886 | 12.269" | 3.269" | 10 GA. | 12.50" | 3.5" | 3" | 12" |
| CP-SP414H | 4" X 14" X 5' | 8" | 50.014 | 14.269" | 4.269" | 10 GA. | 14.50" | 4.5" | 4" | 14" |

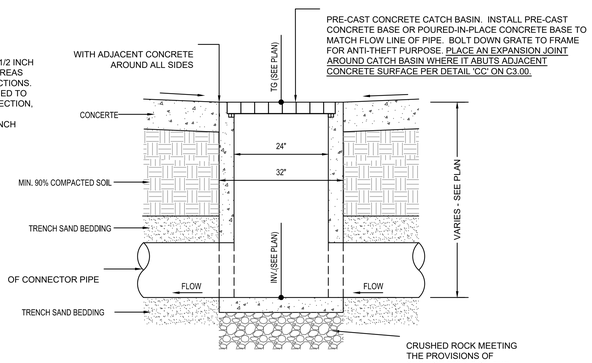
MATERIAL: 10 GAUGE GALVANIZED A653 G90, MEETS ASTM A-653. TENSILE STRENGTH 50,000. YIELD 36,000. ALL WELDS WILL BE SPRAYED, ROLLED OR BRUSHED WITH GALVANIZED #95 COATING. RECTANGULAR CONNECTION: MASTIC (MUST MEET OR EXCEED ASTM D-4586), CAULKING, EPOXY OR OTHER CITY OF LOS ANGELES APPROVED METHOD. ROUND CONNECTION: CAST IRON/ PLASTIC PIPE CONNECTION USE CAST IRON OR PLASTIC TO STEEL COUPLINGS. CONTACT BUREAU OF CONTRACT ADMINISTRATION MATERIAL CONTROL SECTION AT (213) 485-5080 FOR FABRICATION INSPECTION

**10 STEEL CULVERT DETAIL**
NOT TO SCALE

| | |
|---|---|
| NOTES | NOT TO SCALE |
| FINISH | GALVANIZED |
| DRAWN FOR: | Curb-O-Let® Thru The Curb Drain |
| DESCRIPTION | RECTANGULAR CHANNEL DETAIL |
| PROJECT NAME | CURB-O-LET |
| DRAWN BY | FSV |
| DATE DRAWN | 12/11/2018 |
| JOB No. | |
| DRG No. | S-01 |

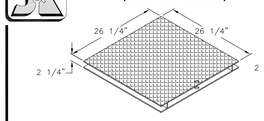
Curb-O-Let, Inc.
9421 Montgrey Ave.
Bellflower, CA 90706

**GRATE OPENING NOTICE TO CONTRACTOR:**
GRATES SHALL HAVE OPENINGS NOT EXCEEDING 1/2 INCH IN ANY DIRECTION IN MULTI-DIRECTIONAL PLAZA AREAS WHERE PEDESTRIAN TRAFFIC FLOWS IN ALL DIRECTIONS. IN AREAS WHERE PEDESTRIAN FLOW IS DETERMINED TO TRAVEL IN THE EAST/WEST OR NORTH/SOUTH DIRECTION, ELONGATED GRATE OPENINGS ARE ACCEPTABLE PROVIDED THESE OPENINGS ARE LIMITED TO 1/2 INCH MAXIMUM IN THE DIRECTION OF TRAVEL.

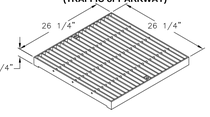


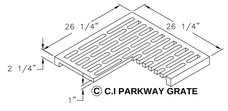

**D1 CATCH BASIN DETAIL**

**A SOLID STEEL COVER (TRAFFIC or PARKWAY)**

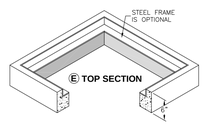



**B STEEL GRATE (TRAFFIC or PARKWAY)**

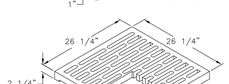


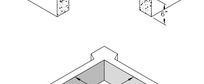

**C C.I PARKWAY GRATE**



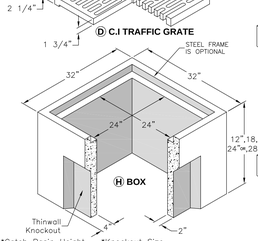

**E TOP SECTION**



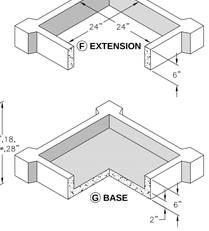

**D C.I TRAFFIC GRATE**




**F EXTENSION**




**H BOX**

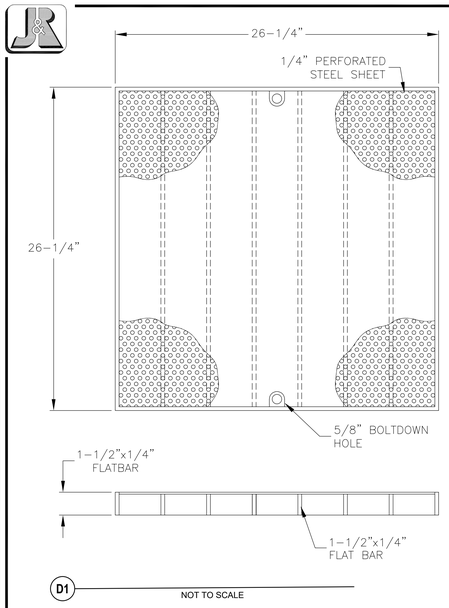



**G BASE**

*Catch Basin Height *Knockout Size
12" High.....14"W X 7"H
18" High.....14"W X 11"H
24" High.....14"W X 17"H
28" High.....14"W X 22"H

NOTES
1. Steel Traffic Frames W/ Steel TFC Covers Or Steel TFC Grates Are Designed For AASHTO H-20 Wheel Loading, But Are Not Intended For Direct Traffic Installations.
2. Steel Frames W/ Steel Parkway Covers Or Steel Parkway Grates, Are Designed For A Live Load Of 300 p.s.f.
3. Cast Iron Traffic Grates Are Designed For AASHTO H-10 Wheel Loading, But Are Not Intended For Direct Traffic Installations.
4. Cast Iron Parkway Grates Are Designed For 300 p.s.f Wheel Loading.

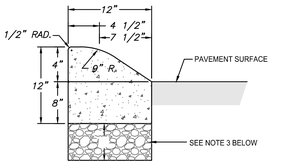
**CB2424 SERIES**
**24" X 24" CATCH BASIN**




D1 NOT TO SCALE

**24" X 24" STEEL HEEL-PROOF BOLTDOWN TRAFFIC GRATE**

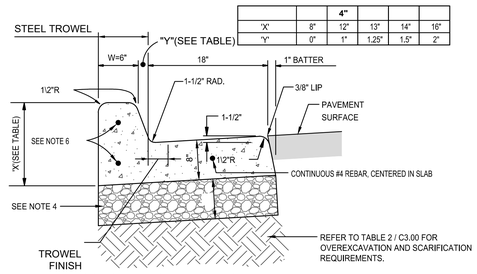
NOTES
1. Steel Traffic Frames W/ Steel TFC Covers Or Steel TFC Grates Are Designed For AASHTO H-20 Wheel Loading, But Are Not Intended For Direct Traffic Installations.




**3A CONCRETE ROLLED CURB DETAIL**
NOT TO SCALE

1. ALL EXPOSED EDGES SHALL HAVE A 1/2" RADIUS.
2. EXPANSION JOINTS AT 30' INTERVALS, AND AT DRIVE APPROACHES, B.C.'S, E.C.'S, CROSS GUTTERS AND CATCH BASIN TRANSITIONS.
3. A MINIMUM 6" THICK LAYER OF CRUSHED AGGREGATE BASE SHALL BE PLACED UNDER ALL CONCRETE ROLLED CURB, COMPACTED TO A MINIMUM 95% RELATIVE DENSITY.
4. CONCRETE CURB SHALL BE MINIMUM CLASS 560-C-3250 PER S.S.P.W.C. SECTION 201-1.

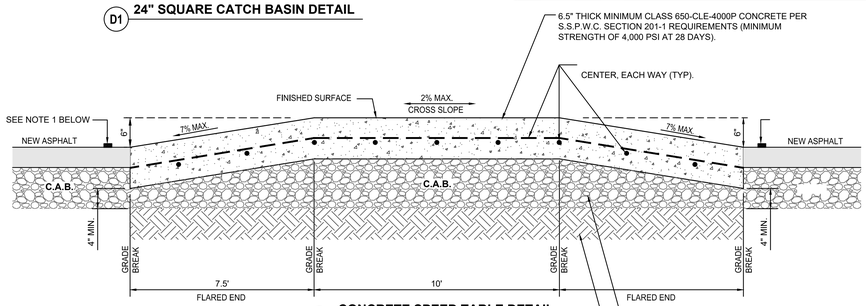
| | | 4" | | | |
|---|---|---|---|---|---|
| 'X' | 8" | 12" | 13" | 14" | 16" |
| 'Y' | 0" | 1" | 1.25" | 1.5" | 2" |



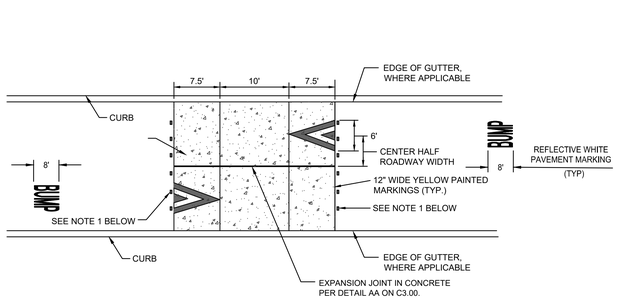

**3B CONCRETE CURB AND GUTTER DETAIL**
NOT TO SCALE

GENERAL NOTES
1. ALL EXPOSED EDGES SHALL HAVE A 1/2" RADIUS EXCEPT THE GUTTER FLOW LINE SHALL BE 1-1/2" RADIUS.
2. GUTTER SHALL HAVE A FINE-BROOM FINISH EXCEPT WHERE STEEL TROWEL FINISH IS INDICATED.
3. CONTROL JOINTS SHALL BE PLACED IN CURBING AT REGULAR INTERVALS OF 10'. EXPANSION JOINTS AT 30' INTERVALS PER JOINT DETAILS ON C1.07.
4. A 6" THICK LAYER OF CRUSHED AGGREGATE BASE SHALL BE PLACED UNDER ALL CURB AND GUTTER. MINIMUM COMPACTION OF 95% IS REQUIRED.
5. CONCRETE CURB AND GUTTER SHALL BE MINIMUM CLASS 560-C-3250 PER S.S.P.W.C. SECTION 201-1.
6. PLACE CONTINUOUS #4 REBARS, 3" MINIMUM FROM TOP AND 3" MINIMUM FROM BOTTOM OF CURB AND GUTTER.

**D1 24" SQUARE CATCH BASIN DETAIL**

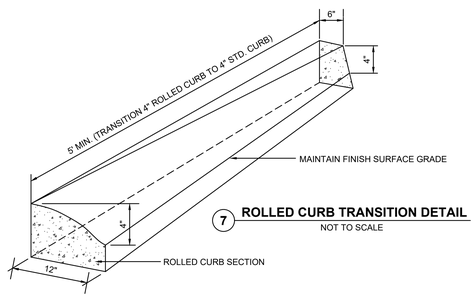



**4 CONCRETE SPEED TABLE DETAIL**
NOT TO SCALE




**4 SIGNING & STRIPING DETAIL**
NOT TO SCALE

**CONCRETE SPEED TABLE NOTES:**
1. INSTALL ONE-WAY YELLOW RETROREFLECTIVE RAISED PAVEMENT MARKERS (ABRASION RESISTANT) TO ASPHALT PAVEMENT USING STANDARD SET EPOXY ADHESIVE FOR PAVEMENT MARKERS, 24" APART TYPICAL. APPROVED MATERIALS: 3M SERIES 290, APEX UNIVERSAL INC. (MODEL 921AR) OR ENNIS PAINT, INC. (MODEL C88).




**7 ROLLED CURB TRANSITION DETAIL**
NOT TO SCALE

PBK

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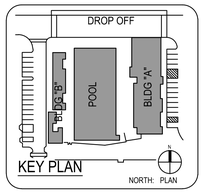
www.FPLandAssociates.com

# CENTENNIAL HIGH SCHOOL AQUATICS CENTER

PROJECT ADDRESS:
1820 RIMPAU AVE.
CORONA, CA 92881

CONSTRUCTION DOCUMENTS
FILE #: 33-H4 DSA APPLICATION #: 04-122208




Consultant

REGISTERED PROFESSIONAL ENGINEER ALAN WING-CHI LEE CIVIL STATE OF CALIFORNIA
FOR PLAN CHECK ONLY
EXPIRATION DATE: 12/31/2024

Architect

CLIENT
CNUSD

| DATE | PROJECT NUMBER |
|---|---|
| 4/28/2023 | 220306 |

REVISIONS

| Description | Date |
|---|---|
| | |

DETAIL SHEET

C3.01

Plot Date: 5/1/2023 2:38:44 PM Last Save By: colin.tsui Login: Colin Tsui S:\Jobs\2777 - PBK\2777tt - Centennial High School\Civil\Centennial HS C3.01 - Grading Details.dwg

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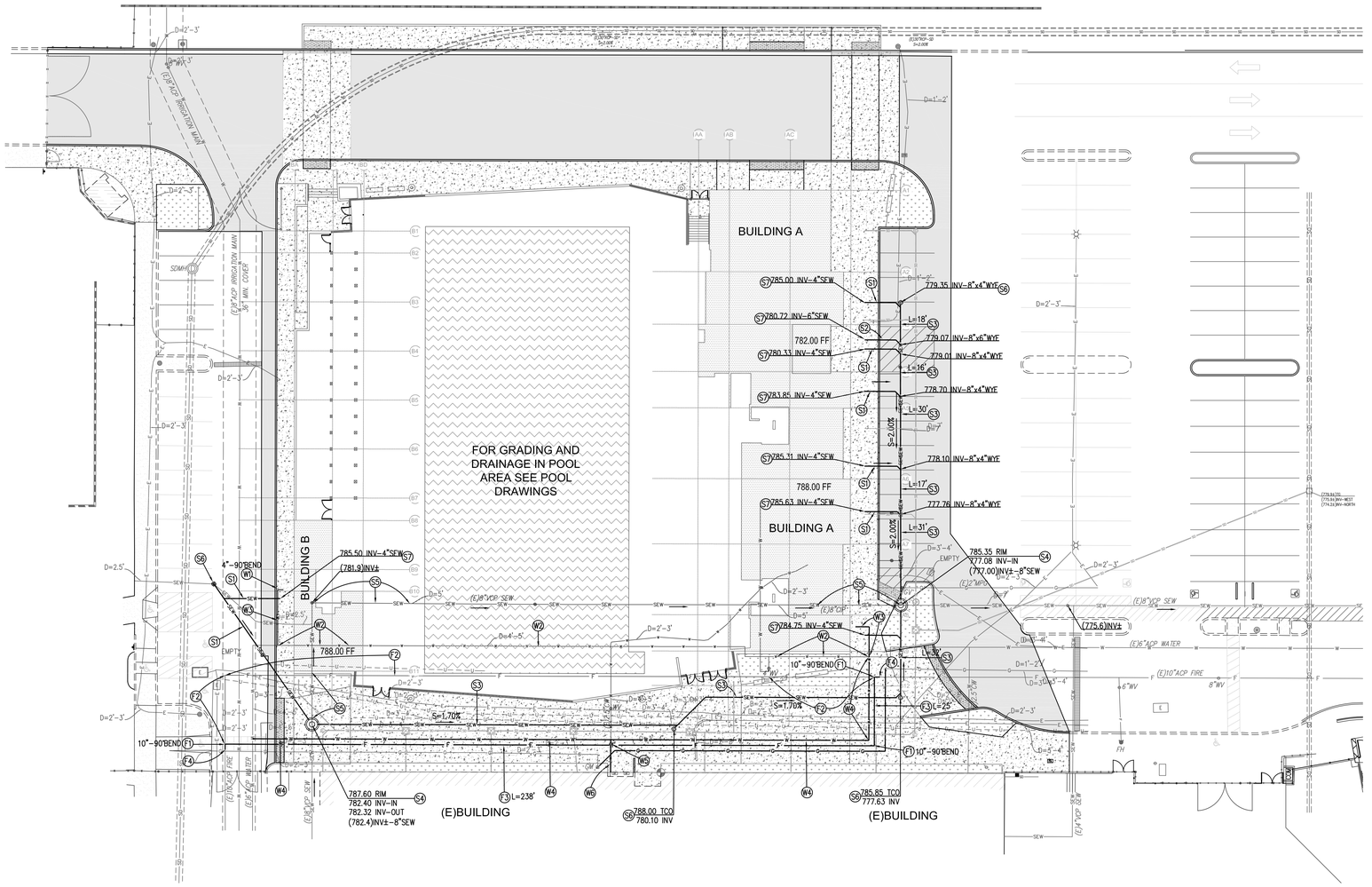


## DOMESTIC WATER GENERAL NOTES:

1. WATER VALVE BOXES SHALL BE SET FLUSH WITH ULTIMATE FINISH SURFACE.
2. AFTER PROJECT INSPECTOR HAS INSPECTED INSTALLATION, PERFORM CONNECTIONS TO SERVICING WATER LINES. SCHEDULE SERVICE SHUTDOWN FOR CONNECTING NEW SYSTEM AT A TIME CAUSING MINIMUM DISRUPTION.
3. WHEN WATER PIPING HAS BEEN INSTALLED AND PRESSURE TESTED, STERILIZE SYSTEM BEFORE USE AND/OR SUBSTANTIAL COMPLETION.
4. INJECT SOLUTION OF LIQUID CHLORINE OR SODIUM HYPOCHLORITE AND WATER CONTAINING AT LEAST 50 PPM OF FREE CHLORINE INTO A SYSTEM IN A MANNER TO ENSURE THAT ENTIRE SYSTEM IS COMPLETELY FILLED WITH SOLUTION. DURING THIS PROCEDURE OPERATE VALVES AND TEST OUTLETS FOR RESIDUAL CHLORINE. CONTINUE INJECTION UNTIL OUTLETS INDICATE AT LEAST 59 PPM OF FREE CHLORINE.
5. AFTER INJECTION, ISOLATE SYSTEM AND HOLD SOLUTION IN RETENTION FOR A PERIOD OF AT LEAST 8 HOURS. PERFORM TESTS FOR RESIDUAL CHLORINE AFTER RETENTION. IF SUCH TESTS INDICATE LESS THAN 50 PPM OF RESIDUAL CHLORINE, REPEAT ENTIRE PROCEDURE. AFTER SATISFACTORY STERILIZATION HAS BEEN VERIFIED, FLUSH ENTIRE SYSTEM UNTIL TRACES OF CHLORINE HAVE BEEN REMOVED OR UNTIL CHLORINE CONTENT IS NO GREATER THAN IN EXISTING WATER SUPPLY.
6. PRESSURE TESTING: BEFORE PRESSURE TEST, FILL PORTION OF PIPING BEING TESTED WITH WATER FOR A MINIMUM OF 24 HOURS. PROVIDE HYDROSTATIC PRESSURE OF 50 PSI GREATER THAN THE MAXIMUM WORKING PRESSURE OF TESTED SYSTEM. PROVIDE AND MAINTAIN HYDROSTATIC TEST PRESSURE FOR AT LEAST 2 HOURS TO ENSURE NO LEAKAGE OF ANY PORTION OF PIPING OR APPURTENANCES UNDER PRESSURE TEST.

## SANITARY SEWER GENERAL NOTES

1. SANITARY SEWER PIPING SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE 2021 EDITION OF THE "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION - GREEN BOOK", AND THE 2022 CALIFORNIA PLUMBING CODE WITH AMENDMENTS.
2. CLEANOUT LIDS SHALL BE SET FLUSH WITH ULTIMATE FINISH GRADE. CLEANOUTS SHALL BE INSTALLED AS SHOWN ON THE PLANS AND IN ACCORDANCE TO SECTIONS 707 AND 719 OF THE 2022 CALIFORNIA PLUMBING CODE.
3. THE CONTRACTOR SHALL VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL UTILITY CROSSINGS AND POINTS OF CONNECTION TO THE EXISTING SEWER SYSTEM PRIOR TO CONSTRUCTION OF THE SEWER LINES.
4. ALL SEWER MAINS, CLEANOUT, AND HOUSE CONNECTION LATERALS SHALL BE STAKED BY A LICENSED SURVEYOR IF SLOPE OF GRADE IS LESS THAN 2%, AND A COMPLETE SET OF CUT SHEETS SHALL BE SUPPLIED TO THE INSPECTOR.
5. NO FACILITY IS TO BE BACKFILLED UNTIL INSPECTED BY THE INSPECTOR.
6. IN ORDER TO PREVENT ACCIDENTAL USE OF THE NEW SEWER PRIOR TO COMPLETION AND ACCEPTANCE OF THE WORK, THE OUTLET OR INLET TO EXISTING TIE-IN CLEANOUT(S) SHALL BE SEALED WITH BROKEN BRICK AND MORTAR. INSTALLATION OF THESE PLUGS SHALL BE APPROVED BY THE INSPECTOR. PLUGS SHALL BE REMOVED ONLY AT THE DIRECTION OF INSPECTOR.
7. NEW SEWER LINES SHALL NOT BE CONNECTED TO THE EXISTING SEWER SYSTEM UNTIL THE NEW LINES HAVE BEEN TESTED PER SECTION 712.0 OF THE 2022 CALIFORNIA PLUMBING CODE. THE LINES SHALL BE TESTED AND CLEANED TO THE INSPECTORS APPROVAL BEFORE THEY ARE CONNECTED TO THE EXISTING SITE SEWER LINES.
8. AFTER PRESSURE TESTING AND CLEANING, BUT PRIOR TO FINAL ACCEPTANCE, SEWER LINES 4" AND ABOVE SHALL HAVE A VIDEOTAPE RECORD OF THEIR INTERIOR PERFORMED. TAPE SHALL BE DELIVERED TO THE INSPECTOR OF RECORD AT THE TIME OF TAPING.

**NOTE TO CONTRACTOR: BEFORE DEMOLTION OR TRENCHING OCCURS, THE CONTRACTOR SHALL COMPLETE AN UNDERGROUND UTILITY MAPPING SURVEY OF THE ENTIRE LIMITS OF WORK TO DETERMINE WERE EXISTING UTILITIES ARE AND WHERE POSSIBLE UNDERGROUND CONFLICTS MAY OCCUR.**

## HATCH LEGEND:

- = PROPOSED CONCRETE PAVING
- = PROPOSED ASPHALT PAVING
- = PROPOSED BUILDING
- = NEW SWIMMING POOL
- = EXISTING BUILDING

## UNDERGROUND UTILITY LINETYPE LEGEND

| | |
|---|---|
| SD | (E)STORM DRAIN |
| W | (E)WATER |
| SEW | (E)SANITARY SEWER |
| G | (E)GAS |
| E | (E)ELECTRICAL/POWER |
| COMM | (E)COMMUNICATIONS |
| U | (E)UNKNOWN UTILITY |
| F | (E)FIRE WATER |
| F | PROPOSED FIRE WATER |
| SEW | PROPOSED SANITARY SEWER |
| W | PROPOSED COLD WATER |
| SD | PROPOSED STORM DRAIN |

SCALE: 1" = 20'

## FIRE WATER CONSTRUCTION NOTES

(F1) CONSTRUCT CONCRETE THRUST BLOCK PER DETAIL F1/C5.0.
(F2) REMOVE & DISPOSE OF EXISTING 10" ACP (TRANSITE) FIRE WATER PIPE.
(F3) CONSTRUCT 10" A.W.W.A. C900 P.V.C. PIPE, DR 18, PER APPLICABLE TRENCHING DETAIL ON SHEET C3.00.
(F4) CONNECT NEW 10" FIRE WATER TO EXISTING WITH 10" EBAA IRON 3800 MEGA-COUPLING.

## SEWER CONSTRUCTION NOTES

(S1) CONSTRUCT 4" SDR-35 PVC PIPE PER APPLICABLE TRENCHING DETAILS ON C3.00.
(S2) CONSTRUCT 6" SDR-35 PVC PIPE PER APPLICABLE TRENCHING DETAILS ON C3.00.
(S3) CONSTRUCT 8" SDR-35 PVC PIPE PER APPLICABLE TRENCHING DETAILS ON C3.00.
(S4) CONSTRUCT PRECAST CONCRETE SEWER MANHOLE PER DETAIL 200-3 ON C5.00 WITH 30" DIAMETER FRAME AND COVER.
(S5) REMOVE & DISPOSE OF EXISTING 8" VITRIFIED CLAY SANITARY SEWER PIPE.
(S6) CONSTRUCT SEWER CLEANOUT & YARD BOX PER DETAIL S6/C5.00.
(S7) CONNECT TO BUILDING SEWER WITH ANACO-HUSKY 2000 STAINLESS STEEL COUPLING OR APPROVED EQUAL.

## COLD WATER CONSTRUCTION NOTES

(W1) CONSTRUCT CONCRETE THRUST BLOCK PER DETAIL F1/C5.0.
(W2) REMOVE & DISPOSE OF EXISTING 6" ACP (TRANSITE) WATER PIPE.
(W3) CONSTRUCT 4" A.W.W.A. C900 P.V.C. PIPE, DR 18, PER APPLICABLE TRENCHING DETAIL ON SHEET C3.00.
(W4) CONSTRUCT 6" A.W.W.A. C900 P.V.C. PIPE, DR 18, PER APPLICABLE TRENCHING DETAIL ON SHEET C3.00.
(W5) CONSTRUCT WATER SHUT-OFF VALVE AND YARD BOX PER DETAIL WV/C5.00.
(W6) CONSTRUCT 2.5" WATER SERVICE. CONNECT INTO EXISTING 2.5" WATER WITH APPLICABLE COUPLINGS.


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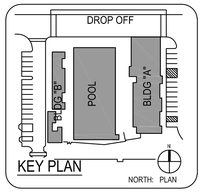
# CENTENNIAL HIGH SCHOOL AQUATICS CENTER

PROJECT ADDRESS:
1820 RIMPAU AVE.
CORONA, CA 92881

CONSTRUCTION DOCUMENTS
FILE #: 33-414 DSA APPLICATION #: 04-122208






Consultant




Architect

CLIENT
CNUSD

| DATE | PROJECT NUMBER |
|---|---|
| 4/28/2023 | 220306 |

REVISIONS

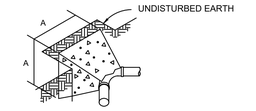
| No. | Description | Date |
|---|---|---|
| | | |

CONSTRUCTION DOCUMENTS

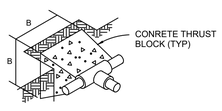
**SITE UTILITY PLAN**

**C4.00**

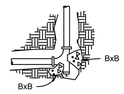

Plot Date: 5/2/2023 12:39:29 PM Last Save By: ron.conedy Login: Ron Conedy S:\Jobs\2777 - PBK\2777H - Centennial High School\Civil\Centennial HS C4.00 - Utility Plan.dwg



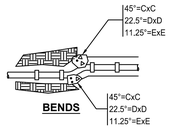

THRUST BLOCK AT 90° ELBOW



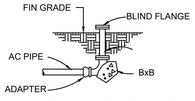

THRUST BLOCK AT TEE



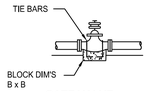

PLUGGED TEE




BENDS




CONDITION AT DEAD END / STUB




GATE VALVE

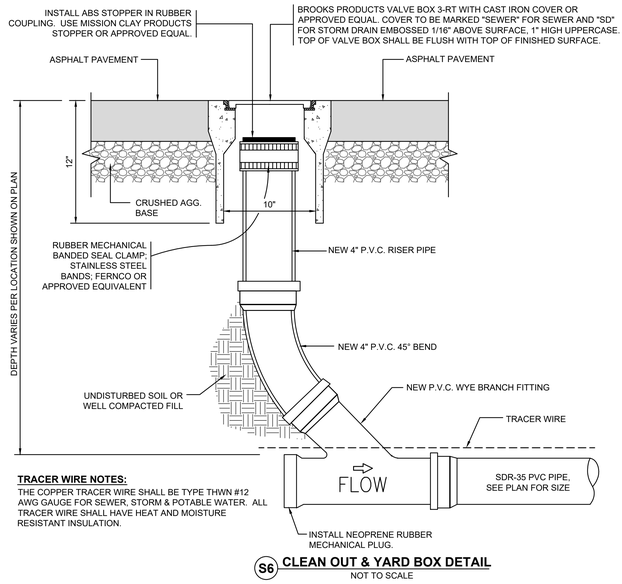
GATE VALVES WHICH ARE FLANGED TO TEES OR CROSSES WHICH HAVE THRUST BLOCKS.

NOT TO SCALE

| PIPE SIZE | | TEE / STUB | 45° BEND | 22.5° BEND | 11.25° BEND |
|---|---|---|---|---|---|
| | | | | | E |
| 2 | 14" | 12" | 10" | 8" | 6" |
| 3 | 20" | 17" | 15" | 11" | 8" |
| 4 | 28" | 23" | 20" | 15" | 10" |
| 6 | 39" | 33" | 29" | 21" | 15" |

**THRUST BLOCK GENERAL NOTES:**

1. ALL DUCTILE IRON FITTINGS BURIED UNDERGROUND SHALL BE PROTECTED WITH PLASTIC FILM WRAP IN ACCORDANCE WITH AWWA C105. WRAP SHALL BE A LOOSE 8"-MIL-THICK POLYETHYLENE TUBE. ALL JOINTS BETWEEN PLASTIC TUBES SHALL BE WRAPPED WITH 2-INCH-WIDE POLYETHYLENE ADHESIVE TAPE, POLYKEN 900, SCOTCH WRAP 50, OR APPROVED EQUAL.
2. SOIL BEARING PRESSURE & SIZED PER N.F.P.A. 24, TABLES A.10.6.1(a) and A.10.6.1(b), 2016 EDITION.
3. ALL BOLTS AND STUDS SHALL BE TYPE 316 STAINLESS STEEL PER ASTM A193 GRADE B8M. NUTS AND WASHERS SHALL BE TYPE 316 STAINLESS STEEL PER ASTM A194 GRADE 8M.
4. THRUST BLOCKS SHALL BE INSTALLED AT EVERY CHANGE OF DIRECTION.
5. ALL THRUST BLOCKS SHOULD, WHERE POSSIBLE, BE PLACED AGAINST UNDISTURBED SOIL. WHERE IT IS NOT POSSIBLE TO PLACE THE BEARING SURFACE AGAINST UNDISTURBED SOIL, THE FILL BETWEEN THE BEARING SURFACE AND UNDISTURBED SOIL MUST BE COMPACTED TO AT LEAST 90% STANDARD PROCTOR DENSITY PER N.F.P.A. 24, ANNEX A.10.6.1, 2016 EDITION. THEY SHALL BE CENTERED VERTICALLY AND HORIZONTALLY ABOUT THE DIRECTION OF THE THRUST.
6. SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 2021EDITION, SECTION 201-1 WITH TYPE II CEMENT.
7. WHERE WATER MAIN DEAD ENDS ARE BLIND FLANGED OR CAPPED, THE THRUST BLOCK SHALL EXTEND A MINIMUM DISTANCE OF 6" INTO BOTH SIDES OF THE TRENCH.
8. CONCRETE POURED AGAINST PIPE FITTINGS SHALL BE PLACED SO THAT VALVES AND FITTINGS ARE ACCESSIBLE FOR REPAIR.
9. ACI HOOKED ENDS. WHEN TIE BARS ARE NOT EMBEDDED IN CONCRETE THEY SHALL BE COATED WITH KOPPERS CO. BITUMASTIC NO. 5O OR EQUIVALENT.
10. ALL EXPOSED FLANGES AND OTHER METAL SURFACES AND ALL DAMAGED COATINGS SHALL BE COATED AFTER ASSEMBLY WITH A MASTIC, PER SPECIFICATIONS.
11.

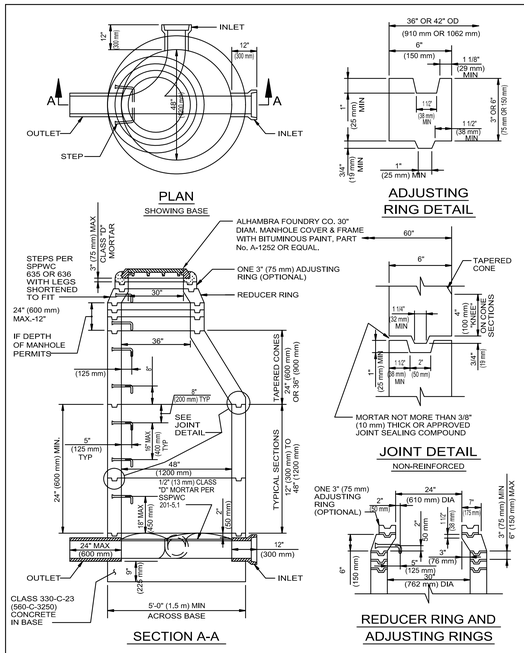



**TRACER WIRE NOTES:**

THE COPPER TRACER WIRE SHALL BE TYPE THWN #12 AWG GAUGE FOR SEWER, STORM & POTABLE WATER. ALL TRACER WIRE SHALL HAVE HEAT AND MOISTURE RESISTANT INSULATION.

S6 **CLEAN OUT & YARD BOX DETAIL**

NOT TO SCALE




PLAN
SHOWING BASE




ADJUSTING
RING DETAIL




SECTION A-A




JOINT DETAIL
NON-REINFORCED




REDUCER RING AND
ADJUSTING RINGS

NOTES:

1. EXCEPT AS NOTED HEREON, THE PRECAST UNITS SHALL BE MANUFACTURED AND TESTED IN ACCORDANCE WITH ASTM C 478. AS AN ALTERNATE CURING METHOD, THE UNITS MAY BE CURED USING SATURATED STEAM FOR A MINIMUM OF 12 HOURS FOLLOWED BY 6 DAYS OF WATER CURING OR MEMBRANE CURING. IF THE UNITS ARE CURED BY THE ALTERNATE METHOD, THEY SHALL NOT BE SHIPPED PRIOR TO 8 DAYS AFTER CASTING NOR UNTIL THE CONCRETE HAS ATTAINED A STRENGTH OF 3500 PSI (25 MPa).
2. MANHOLE STEPS SHALL CONFORM TO SPPWC 635 TYPE 1 OR 3 OR SPPWC 636. THE MANHOLE STEPS SHALL BE UNIFORMLY SPACED AT A MAXIMUM OF 16" (400 mm). THE LOWEST STEP SHALL BE PLACED NOT LESS THAN 8" (200 mm) NOR MORE THAN 18" (450 mm) ABOVE THE SHELF. THE STEPS SHALL PROJECT 5" (125 mm) INSIDE THE MANHOLE.
3. RISER SECTIONS MAY BE REINFORCED OR UNREINFORCED. REINFORCED SECTIONS SHALL BE REINFORCED IN ACCORDANCE WITH ASTM C 478 AND SHALL HAVE A MINIMUM WALL THICKNESS OF 5" (125 mm). UNREINFORCED RISER SECTIONS SHALL HAVE A MINIMUM WALL THICKNESS OF 6" (150 mm).
4. THE 30"x48" ECCENTRIC CONES MAY BE REINFORCED OR UNREINFORCED. IF REINFORCED, THE WALL THICKNESS SHALL BE NOT LESS THAN 5" (125 mm), IF UNREINFORCED, THE WALL THICKNESS SHALL NOT BE LESS THAN 6" (150 mm).
5. JOINTS SHALL BE TONGUE AND GROOVE. JOINTS FOR REINFORCED STRUCTURES SHALL CONFORM WITH ASTM C 478 SECTION 14.
6. PRECAST UNITS SHALL BE ASSEMBLED USING CLASS B" MORTAR.
7. FOR REINFORCED PRECAST STRUCTURES, ALL REINFORCEMENT SHALL HAVE A MINIMUM OF 2" (50 mm) OF COVER OVER THE STEEL ON THE INSIDE FACE.
8. THE TOP OPENING OF THE MANHOLE AND THE STEPS SHALL BE PLACED DIRECTLY OVER THE OUTLET OF THE STRUCTURE EXCEPT AS OTHERWISE NOTED ON PLANS.
9. CONCRETE BASE AND STUB WALLS SHALL BE POURED IN ONE OPERATION TO A POINT 2" (50 mm) ABOVE THE INLET AND OUTLET PIPES. ALL PIPES SHALL BE RIGIDLY SUPPORTED BY TEMPORARY PIERS OR OTHER METHODS DURING THE OPERATION. CONCRETE SHALL SET FOR 24 HOURS BEFORE PLACING PRECAST UNITS.

| STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION | | STANDARD PLAN |
|---|---|---|
| | PRECAST CONCRETE SEWER MANHOLE | 200-3 |
| | USE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION | SHEET 1 OF 2 |

| STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION | STANDARD PLAN |
|---|---|
| PRECAST CONCRETE SEWER MANHOLE | 200-3 |
| | SHEET 2 OF 2 |

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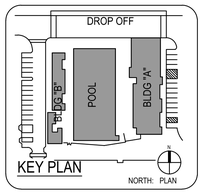
**CENTENNIAL HIGH SCHOOL AQUATICS CENTER**

PROJECT ADDRESS:
1820 RIMPAU AVE.
CORONA, CA 92881

CONSTRUCTION DOCUMENTS
FILE #: 33-44 DSA APPLICATION #: 04-122208




Consultant

REGISTERED PROFESSIONAL ENGINEER ALAN WING-CHI LEE No. C 34615 CIVIL STATE OF CALIFORNIA

FOR PLAN CHECK ONLY

Architect

CLIENT
CNUSD

| DATE | PROJECT NUMBER |
|---|---|
| 4/28/2023 | 220306 |

REVISIONS

| | Description | Date |
|---|---|---|
| | | |

**DETAIL SHEET**

**CONCRETE THRUST BLOCK DETAILS**

**C5.00**

Plot Date: 5/1/2023 2:44:02 PM Last Save By: ron.conedy Login: Colin Tsui S:\Jobs\2777 – PBK\2777tt – Centennial High School\Civil\Centennial HS C5.00 – Utility Details.dwg

L-1 - LANDSCAPE SITE PLAN

0" 1"

3686.33 SQ. FT.

32.19

25 L-2

19 L-2

1 L-2

331.52 SQ. FT.

2 L-2

22.88 SQ. FT.

3 L-2

294.08 SQ. FT.

15 L-2

96.30 SQ. FT.

BLEACHERS

POOL

BLDG "A"

BLDG "B"

4 L-2

359.49 SQ. FT.

13 L-2

339.83 SQ. FT.

5 L-2

223.64 SQ. FT.

14 L-2

142.29 SQ.FT.

10 L-2

362.86 SQ. FT.

7 L-2

420.16 SQ. FT.

NORTH

LANDSCAPE SITE PLAN 1

1" = 10'-0"

## CONSTRUCTION KEYED NOTES

| # | Description |
|---|---|
| 32.19 | LANDSCAPE |

## SITE PLAN LEGEND

PROVIDE NEW DROUGHT TOLERANT LANDSCAPING AND WATER EFFICIENT IRRIGATION

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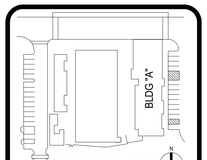
# CENTENNIAL HIGH SCHOOL AQUATICS CENTER

**PROJECT ADDRESS:**
1920 RIMPAU AVE.
CORONA, CA 92881

**CONSTRUCTION DOCUMENTS**
FILE #: **33-H4** DSA APPLICATION #: **04-122208**

KEY PLAN




Consultant

Architect

LICENSED ARCHITECT
David T. Blair
No. C-36451
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EXPIRE 11-30-23
STATE OF CALIFORNIA

CLIENT
CNUSD

| DATE | PROJECT NUMBER |
|---|---|
| 5/5/2023 | 220306 |

REVISIONS

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|---|---|---|
| | | |

CONSTRUCTION DOCUMENTS

**LANDSCAPE SITE PLAN**

**L-1**

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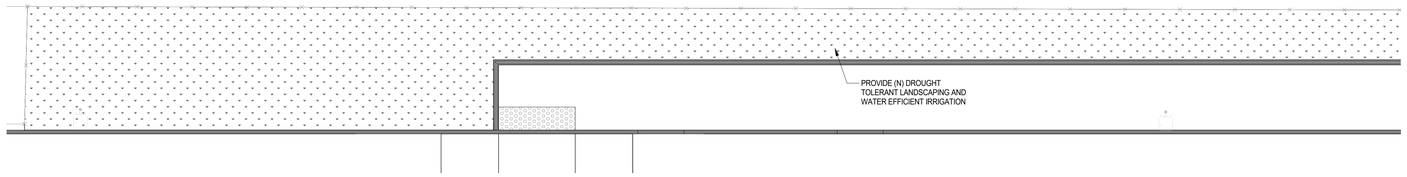
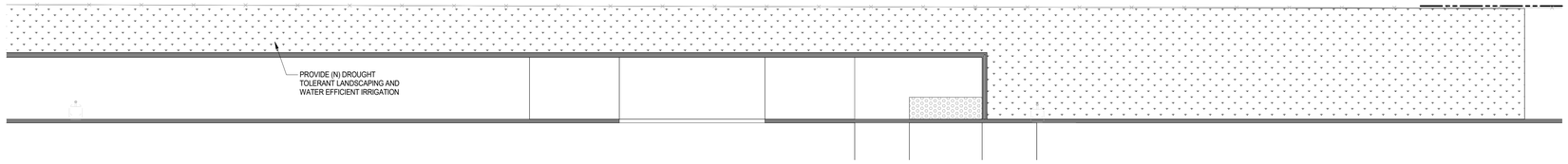
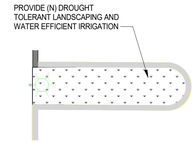
L-2 - ENLARGED LANDSCAPE SITE PLANS



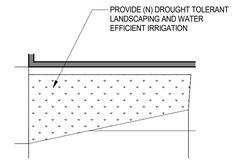

ENLARGED LANDSCAPE PLAN 25
1/8" = 1'-0"



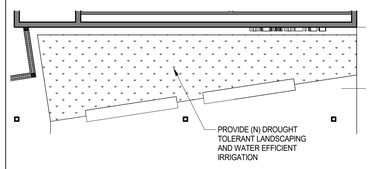

ENLARGED LANDSCAPE PLAN 19
1/8" = 1'-0"



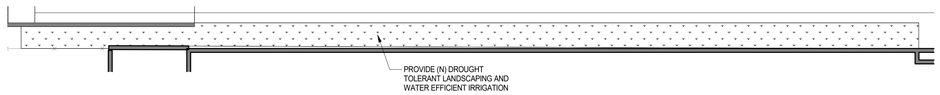

ENLARGED LANDSCAPE PLAN 15
1/8" = 1'-0"



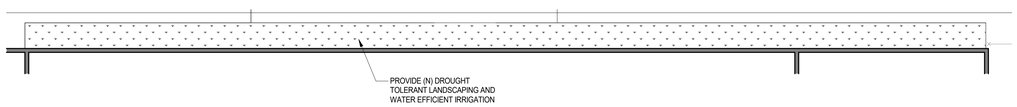

ENLARGED LANDSCAPE PLAN 14
1/8" = 1'-0"



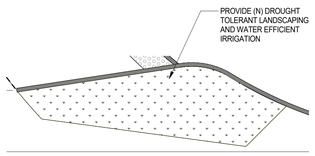

ENLARGED LANDSCAPE PLAN 13
1/8" = 1'-0"



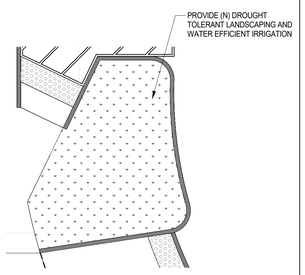

ENLARGED LANDSCAPE PLAN 10
1/8" = 1'-0"



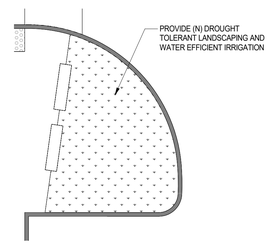

ENLARGED LANDSCAPE PLAN 7
1/8" = 1'-0"



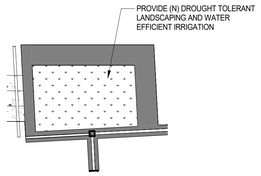

ENLARGED LANDSCAPE PLAN 5
1/8" = 1'-0"



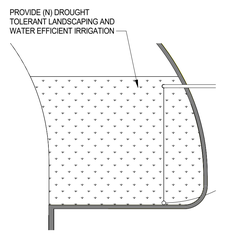

ENLARGED LANDSCAPE PLAN 4
1/8" = 1'-0"




ENLARGED LANDSCAPE PLAN 3
1/8" = 1'-0"




ENLARGED LANDSCAPE PLAN 2
1/4" = 1'-0"




ENLARGED LANDSCAPE PLAN 1
1/8" = 1'-0"

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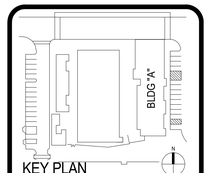
CENTENNIAL HIGH SCHOOL
AQUATICS CENTER

PROJECT ADDRESS:
1820 RIMPAU AVE.
CORONA, CA 92881

CONSTRUCTION DOCUMENTS
FILE #: 33-H4 DSA APPLICATION #: 04-122208




KEY PLAN
NORTH: PLAN

Consultant

Architect

LICENSED ARCHITECT
David T. Blain
No. C-36451
FOR PLAN CHECK ONLY
EXP. 11-30-2023
STATE OF CALIFORNIA

CLIENT
CNUSD

| DATE | PROJECT NUMBER |
|---|---|
| 5/5/2023 | 220306 |

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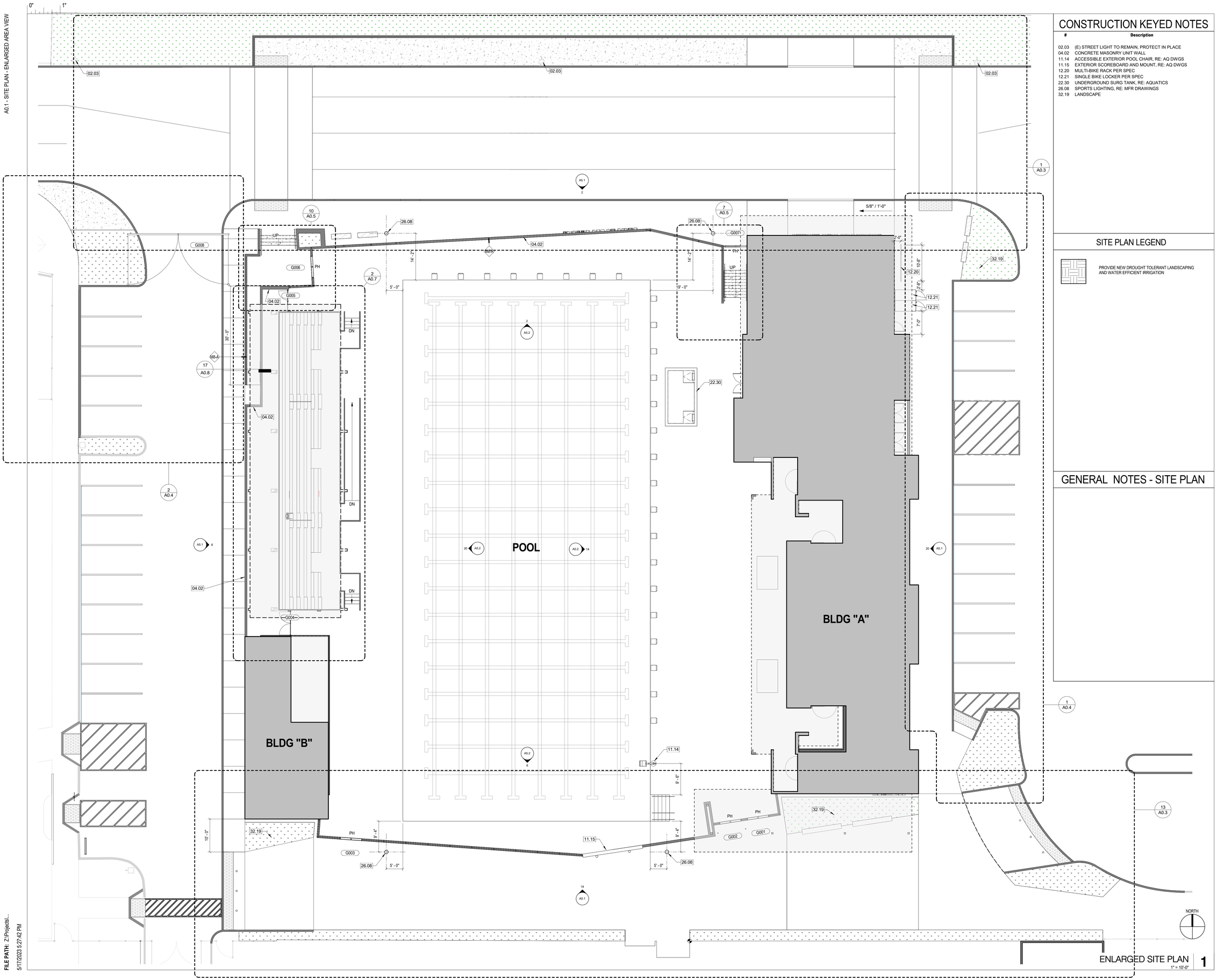
|---|---|---|
| | | |

CONSTRUCTION DOCUMENTS

ENLARGED LANDSCAPE
SITE PLANS

L-2

A0.1 - SITE PLAN - ENLARGED AREA VIEW




ENLARGED SITE PLAN 1
1" = 10'-0"

## CONSTRUCTION KEYED NOTES

| # | Description |
|---|---|
| 02.03 | (E) STREET LIGHT TO REMAIN, PROTECT IN PLACE |
| 04.02 | CONCRETE MASONRY UNIT WALL |
| 11.14 | ACCESSIBLE EXTERIOR POOL CHAIR, RE: AQ DWGS |
| 11.15 | EXTERIOR SCOREBOARD AND MOUNT, RE: AQ DWGS |
| 12.20 | MULTI-BIKE RACK PER SPEC |
| 12.21 | SINGLE BIKE LOCKER PER SPEC |
| 22.30 | UNDERGROUND SURG TANK, RE: AQUATICS |
| 26.08 | SPORTS LIGHTING, RE: MFR DRAWINGS |
| 32.19 | LANDSCAPE |

## SITE PLAN LEGEND

PROVIDE NEW DROUGHT TOLERANT LANDSCAPING AND WATER EFFICIENT IRRIGATION

## GENERAL NOTES - SITE PLAN

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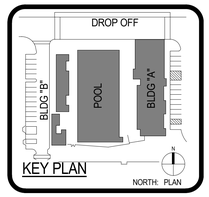
# CENTENNIAL HIGH SCHOOL AQUATICS CENTER

PROJECT ADDRESS:
1820 RIMPAU AVE,
CORONA, CA 92881

CONSTRUCTION DOCUMENTS
FILE #: 33-H4 DSA APPLICATION #: 04-122208




KEY PLAN

Consultant

Architect

LICENSED ARCHITECT
David T. Blain
No. C-26451
REN. 11-30-2024
STATE OF CALIFORNIA
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CNUSD

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|---|---|
| 5/5/2023 | 220306 |

REVISIONS

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CONSTRUCTION DOCUMENTS

## SITE PLAN - ENLARGED AREA VIEW

A0.1

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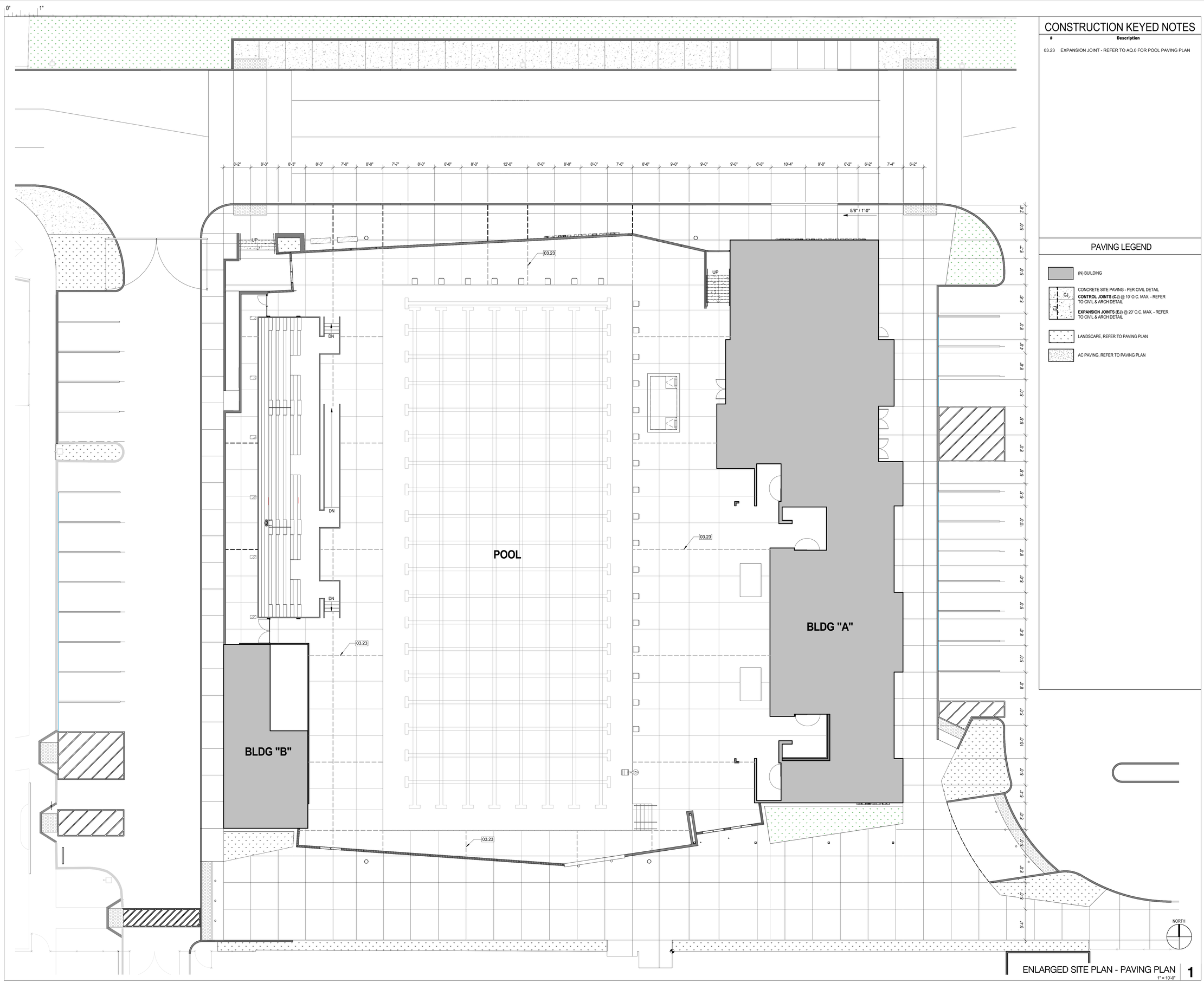
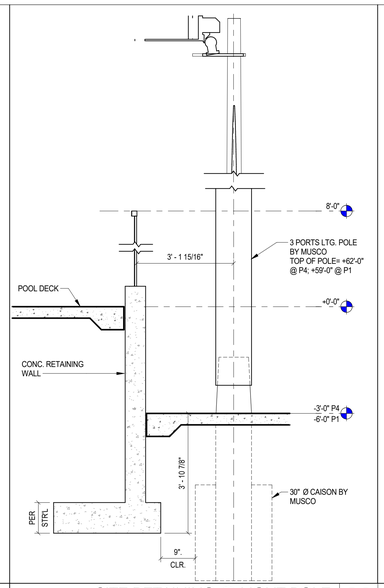
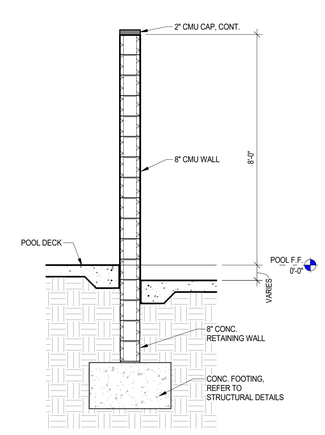
A0.2 - SITE PLAN - ENLARGED PAVING PLAN


0"
1"
8'-2"
8'-3"
8'-3"
8'-3"
7'-0"
8'-0"
7'-7"
8'-0"
8'-0"
8'-0"
12'-0"
8'-0"
8'-0"
8'-0"
7'-6"
8'-0"
9'-0"
9'-0"
9'-0"
6'-8"
10'-4"
9'-8"
6'-2"
6'-2"
7'-4"
6'-2"
5/8" / 1'-0"
UP
UP
03.23
03.23
03.23
03.23
DN
DN
DN
POOL
BLDG "A"
BLDG "B"
7'-4"
8'-0"
5'-7"
8'-0"
8'-0"
4'-0"
8'-0"
8'-0"
8'-0"
6'-8"
6'-8"
10'-0"
8'-0"
8'-0"
8

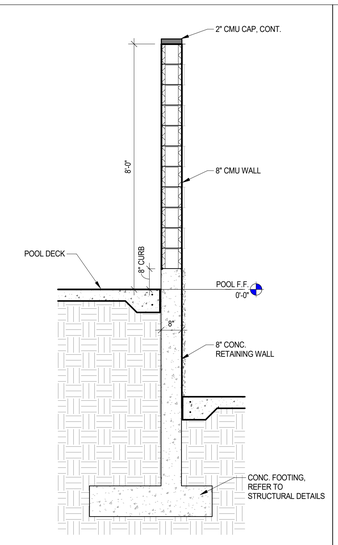
0" 1"



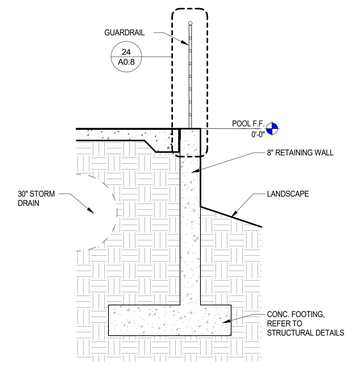

SITE RETAINING @ LIGHT POLE 1/2" = 1'-0" **23**




RETAINING WALL TYPE "C" 1/2" = 1'-0" **22**



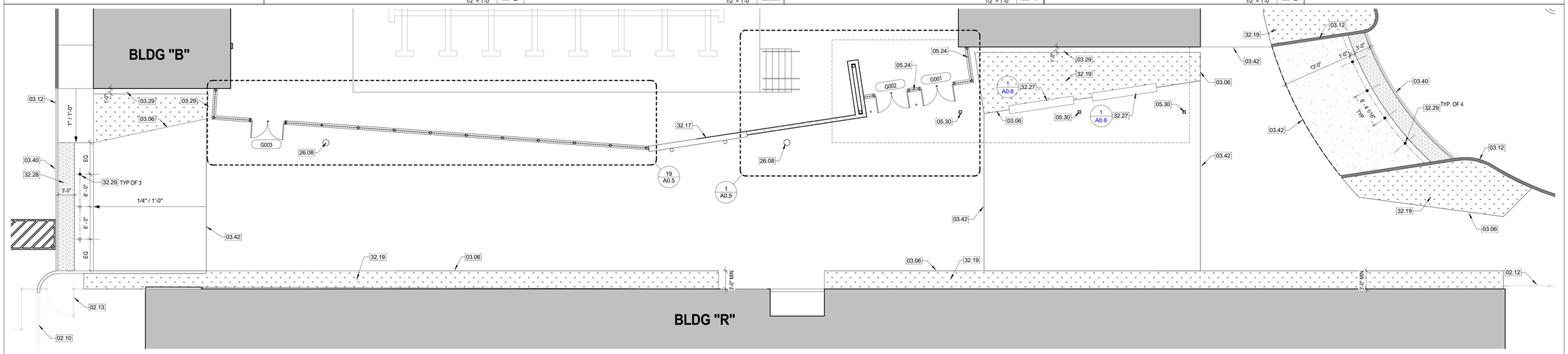

RETAINING WALL TYPE "B" 1/2" = 1'-0" **21**



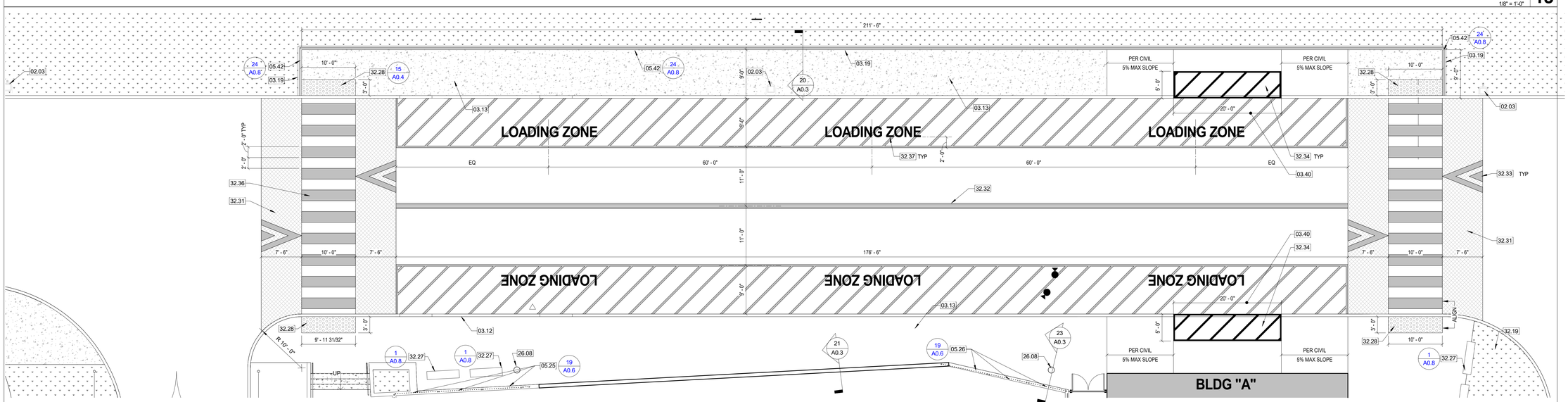

RETAINING WALL TYPE "A" 1/2" = 1'-0" **20**

## CONSTRUCTION KEYED NOTES

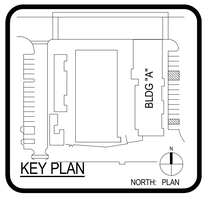
| # | Description |
|---|---|
| 02.03 | (E) STREET LIGHT TO REMAIN, PROTECT IN PLACE |
| 02.10 | (E) CONC. CURB TO REMAIN |
| 02.12 | (E) CHAINLINK FENCE TO REMAIN |
| 02.13 | (E) CHAINLINE FENCE & GATE TO REMAIN |
| 03.06 | THICKENED EDGE AT CONCRETE PAVEMENT |
| 03.12 | CONCRETE CURB |
| 03.13 | CONCRETE PAVING, RE: CIVIL |
| 03.19 | CAST-IN-PLACE CONCRETE RETAINING WALL |
| 03.29 | CONCRETE MOW STRIP |
| 03.40 | 0" CONC. CURB FACE |
| 03.42 | GRADE BREAK LINE |
| 05.24 | ORNAMENTAL METAL FENCE: TYPE 1 |
| 05.25 | ORNAMENTAL METAL FENCE: TYPE 2 |
| 05.26 | ORNAMENTAL METAL FENCE: TYPE 3 |
| 05.30 | STEEL COLUMN - REF STRUCT DWGS |
| 05.42 | CURB MOUNTED GUARDRAIL |
| 26.08 | SPORTS LIGHTING, RE: MFR DRAWINGS |
| 32.17 | SCOREBOARD AND MOUNT, RE: AQUATICS |
| 32.19 | LANDSCAPE |
| 32.27 | BENCH |
| 32.28 | TRUNCATED DOMES |
| 32.29 | REMOVABLE BOLARDS |
| 32.31 | VEHICLE SPEED HUMP |
| 32.32 | SOLID FULL LENGTH DOUBLE YELLOW PAINTED STRIPING |
| 32.33 | PAINTED DIRECTIONAL ARROW, RE: CIVIL |
| 32.34 | BLUE ACCESSIBLE LOADING ZONE STRIPING |
| 32.36 | WHITE CROSSWALK STRIPING |
| 32.37 | 24" HIGH WHITE PAINTED LETTERING |




ENLARGED SITE PLAN - PROMENADE AREA 1/8" = 1'-0" **13**




ENLARGED SITE PLAN - DROP OFF ZONE 1/8" = 1'-0" **1**

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ARCHITECT PBK Architects, Inc. PBK.com

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California 91730
P 909-987-0909

# CENTENNIAL HIGH SCHOOL AQUATICS CENTER

**PROJECT ADDRESS:**
1820 RIMPAU AVE.
CORONA, CA 92881

**CONSTRUCTION DOCUMENTS** DSA APPLICATION #: **04-122208**
FILE #: **33-H4**

Consultant

Architect

LICENSED ARCHITECT David T. Blain No. C-30547 REV. 11-30-2024 STATE OF CALIFORNIA
FOR PLAN CHECK ONLY

CLIENT
CNUSD

| DATE | PROJECT NUMBER |
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| 5/5/2023 | 220306 |

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| No. | Description | Date |
|---|---|---|

**CONSTRUCTION DOCUMENTS**

## SITE PLAN - DROP OFF & PROMENADE AREA

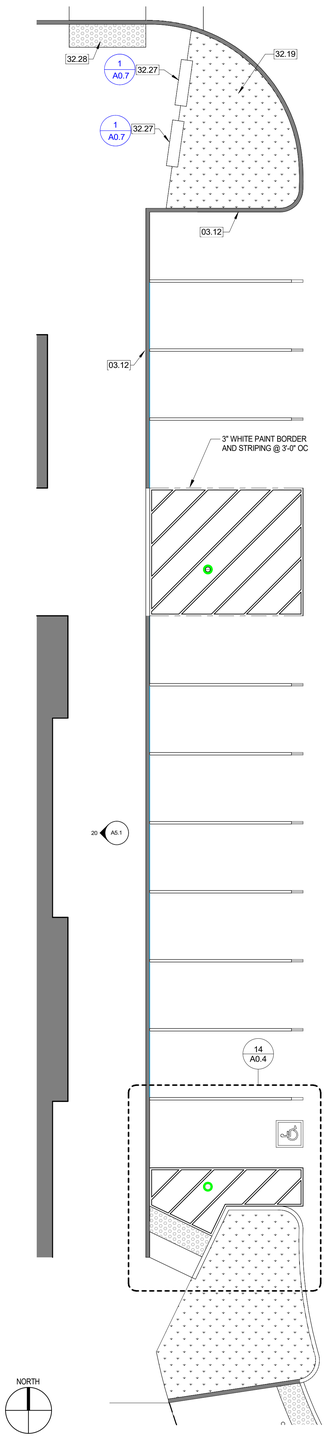
**A0.3**

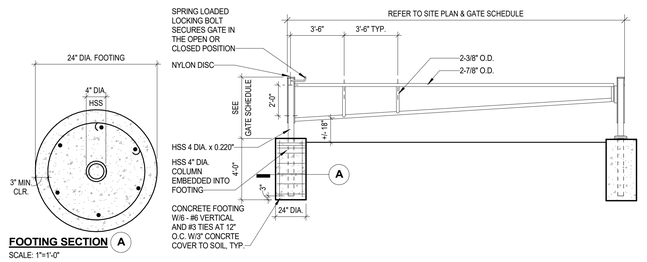
**FILE PATH:** Z:\Projects\...
5/17/2023 5:28:02 PM

0" 1"

## CONSTRUCTION KEYED NOTES

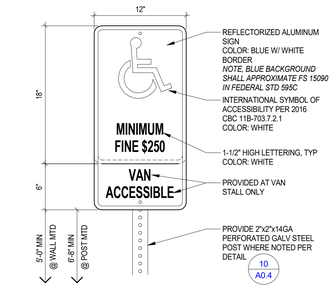
| # | Description |
|---|---|
| 02.03 | (E) STREET LIGHT TO REMAIN, PROTECT IN PLACE |
| 02.04 | (E) CONC. WALKWAY TO REMAIN, PROTECT IN PLACE |
| 02.05 | (E) CONC. CURB TO REMAIN, PROTECT IN PLACE |
| 02.08 | (E) LANDSCAPE AREA |
| 03.12 | CONCRETE CURB |
| 03.13 | CONCRETE PAVING, RE: CIVIL |
| 05.54 | VEHICULAR PIPE CAR PARKING BARRIER SWING GATE |
| 05.55 | VEHICULAR PIPE CAR PARKING BARRIER SWING GATE POST |
| 32.19 | LANDSCAPE |
| 32.27 | BENCH |
| 32.28 | TRUNCATED DOMES |



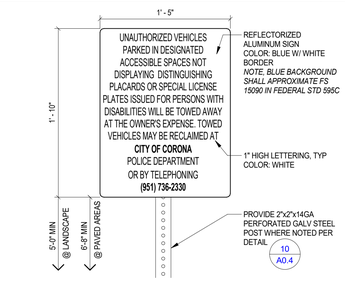

**FOOTING SECTION** (A)
SCALE: 1"=1'-0"

## VEHICULAR PIPE GATE 17
1/4" = 1'-0"



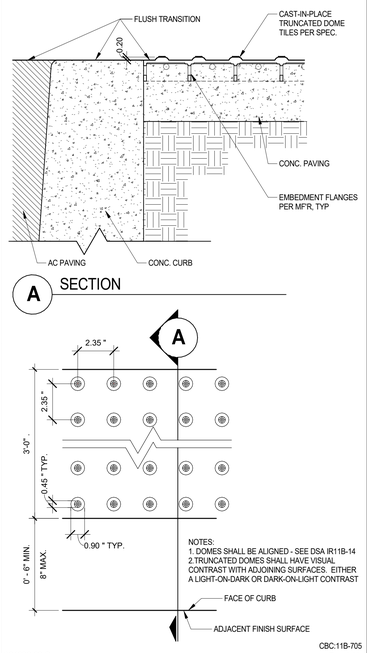

101400.02-S

## ACCESSIBLE PARKING SIGN 22
1 1/2" = 1'-0"



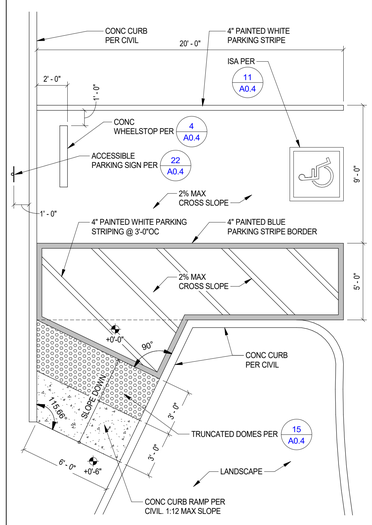

101400.01-S

## SITE ACCESS SIGNAGE 16
1 1/2" = 1'-0"

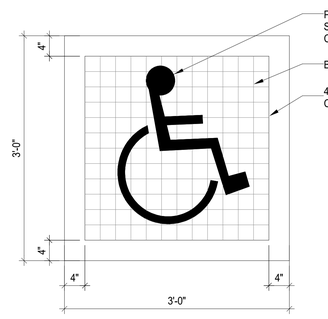



CBC:11B-705
Rev 5/23
321623.03-S

## ACCESSIBLE TRUNCATED DOMES 15
3" = 1'-0"




## Accessible Parking Stall 14
1/4" = 1'-0"



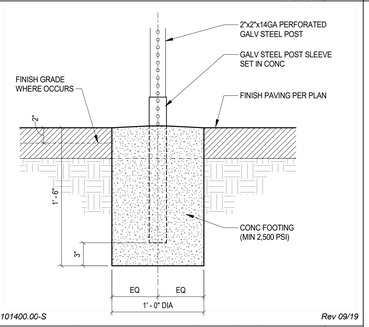

**NOTES:**

GRID LINES ARE SHOWN FOR PROPORTION ONLY AND ARE NOT TO APPEAR AS PART OF SYMBOL..

ACCESSIBILITY SYMBOL SHALL COMPLY WITH SECTION 11B-703.7.2.1 CALIFORNIA BUILDING CODE.

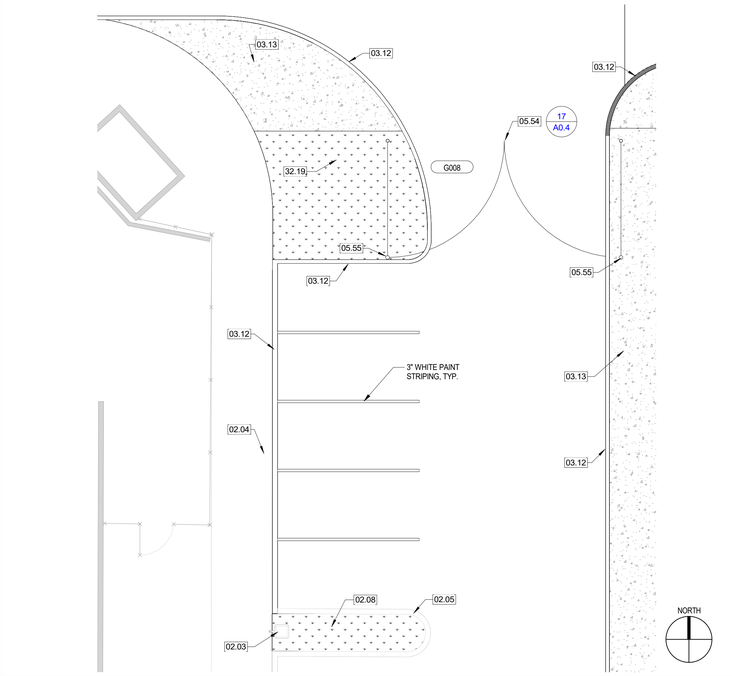
SYMBOL SHALL BE LOCATED SO THAT IT IS VISIBLE TO A TRAFFIC ENFORCEMENT OFFICER WHEN VEHICLE IS PARKED IN THE SPACE.

## PARKING ACCESSIBLE SYMBOL - ISA 11
1" = 1'-0"



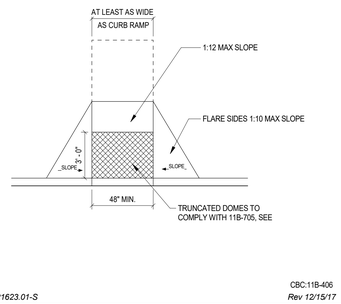

101400.00-S
Rev 09/19

## SIGN POST FOOTING 10
1 1/2" = 1'-0"



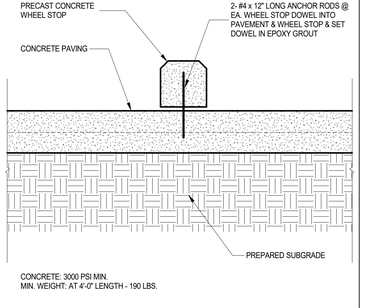

## ENLARGED SITE PLAN - WEST PARKING 2
1/8" = 1'-0"

## ENLARGED SITE PLAN - EAST PARKING 1
1/8" = 1'-0"




CBC:11B-406
Rev 12/15/17
321623.01-S

## ACCESSIBLE CURB RAMP 5
1/4" = 1'-0"




CONCRETE: 3000 PSI MIN.
MIN. WEIGHT: AT 4'-0" LENGTH - 190 LBS.

## CONCRETE WHEEL STOP 4
1 1/2" = 1'-0"

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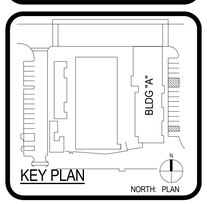
# CENTENNIAL HIGH SCHOOL AQUATICS CENTER

PROJECT ADDRESS:
1820 RIMPAU AVE.
CORONA, CA 92881

CONSTRUCTION DOCUMENTS
FILE #: 33-H4 DSA APPLICATION #: 04-122208




Consultant

Architect
LICENSED ARCHITECT David T. Blain
No. C-29241
REN 11-30-2024
STATE OF CALIFORNIA
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CNUSD

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CONSTRUCTION DOCUMENTS

**SITE PLAN - PARKING AREAS'S & DETAILS**

**A0.4**

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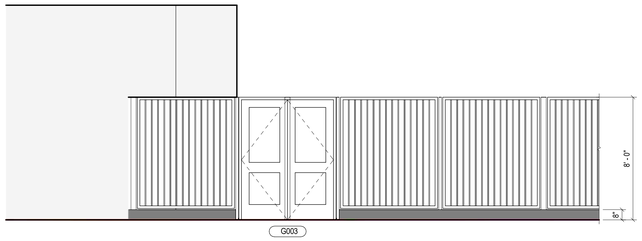
5/17/2023 5:27:49 PM

A0.5 - SITE PLAN - EXTERIOR GATES & FENCE

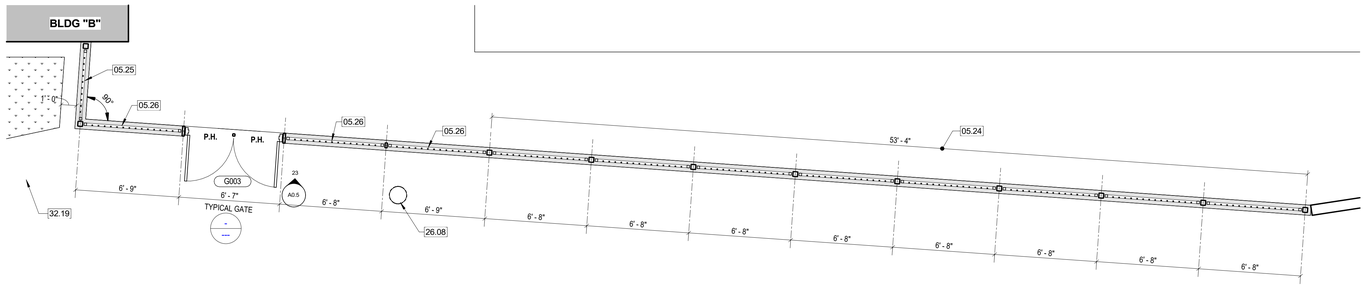
0" 1"

## CONSTRUCTION KEYED NOTES

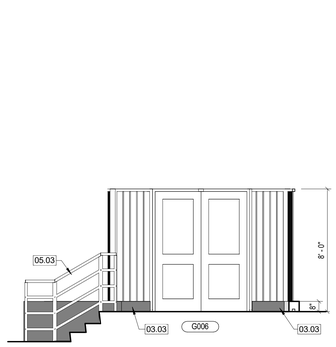
| # | Description |
|---|---|
| 03.03 | 8" HIGH CONC. CURB AT FENCE/WALL |
| 03.20 | CONCRETE STAIRS |
| 04.02 | CONCRETE MASONRY UNIT WALL |
| 05.02 | GUARDRAIL |
| 05.03 | HANDRAIL |
| 05.09 | LOUVERED FENCE PANEL |
| 05.19 | FREE STANDING HANDRAIL @ STAIRS |
| 05.24 | ORNAMENTAL METAL FENCE: TYPE 1 |
| 05.25 | ORNAMENTAL METAL FENCE: TYPE 2 |
| 05.26 | ORNAMENTAL METAL FENCE: TYPE 3 |
| 05.30 | STEEL COLUMN - REF STRUCT DWGS |
| 05.42 | CURB MOUNTED GUARDRAIL |
| 08.17 | REMOVEABLE MULLION |
| 26.08 | SPORTS LIGHTING, RE: MFR DRAWINGS |
| 32.17 | SCOREBOARD AND MOUNT, RE: AQUATICS |
| 32.19 | LANDSCAPE |



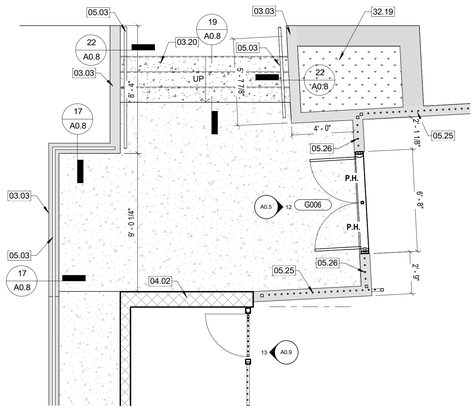

SOUTH-WEST GATE ELEVATION 23
1/4" = 1'-0"



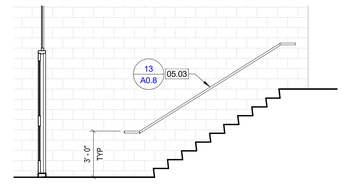

ENLARGED SOUTH-WEST GATES 19
1/4" = 1'-0"



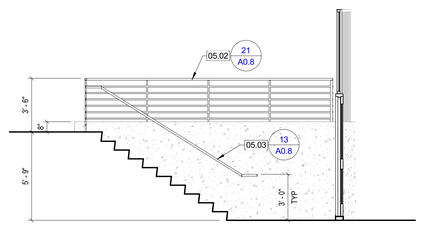

NORTH-WEST GATE ELEVATION 12
1/4" = 1'-0"



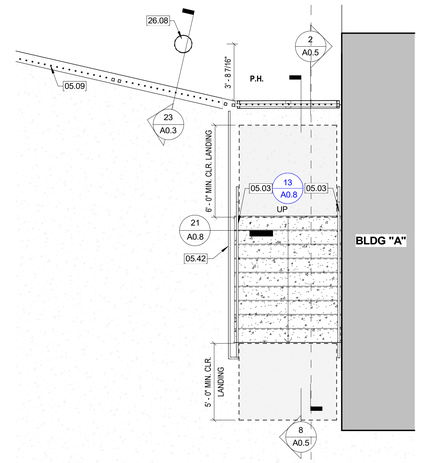

ENLARGED NORTH-WEST GATE 10
1/4" = 1'-0"



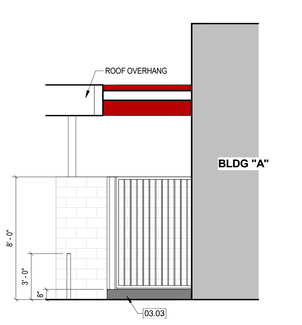

NORTH-EAST STAIRS SECTION1 2
1/4" = 1'-0"



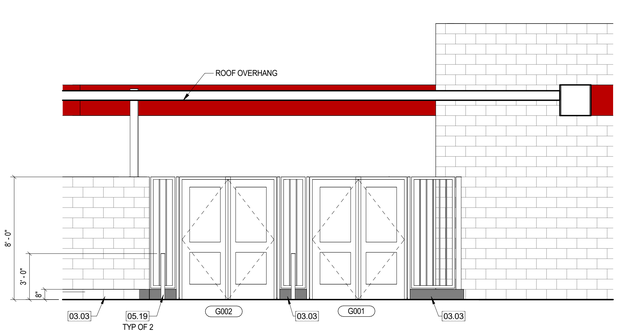

NORTH-EAST STAIRS SECTION 8
1/4" = 1'-0"



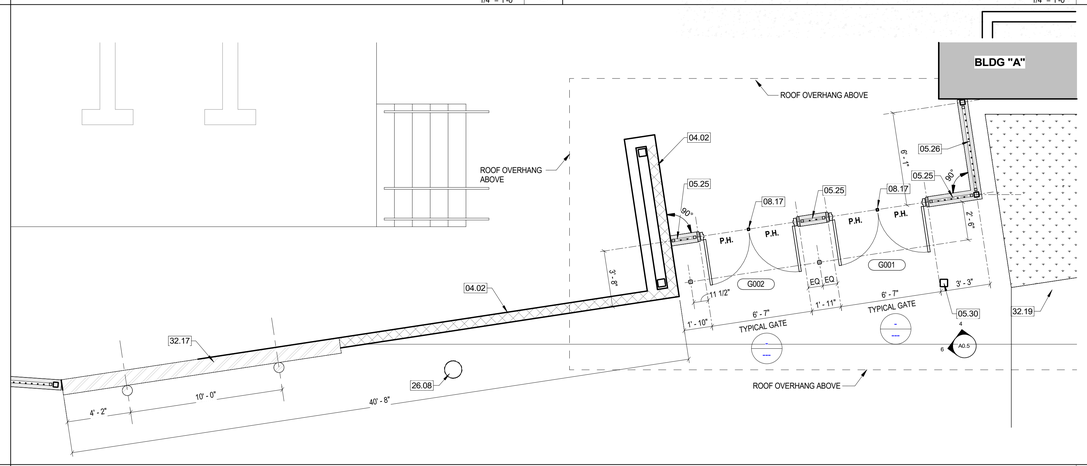

ENLARGED NORTH-EAST STAIRS 7
1/4" = 1'-0"




ENTRY GATES - WEST ELEV. 6
1/4" = 1'-0"




ENRTY GATES - NORTH ELEV. 4
1/4" = 1'-0"




ENLARGED SITE PLAN - MAIN ENTRY GATES 1
1/4" = 1'-0"

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**CENTENNIAL HIGH SCHOOL AQUATICS CENTER**

**PROJECT ADDRESS:**
1820 RIMPAU AVE.
CORONA, CA 92881

**CONSTRUCTION DOCUMENTS**
FILE #: **33-H4** DSA APPLICATION #: **04-122208**




Consultant

Architect

LICENSED ARCHITECT
David T. Blair
No. C-26564
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STATE OF CALIFORNIA
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| DATE | PROJECT NUMBER |
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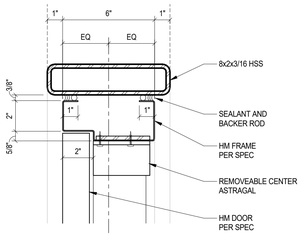
**CONSTRUCTION DOCUMENTS**

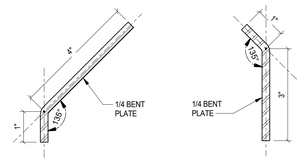
**SITE PLAN - EXTERIOR GATES & FENCE**

**A0.5**

0" 1"



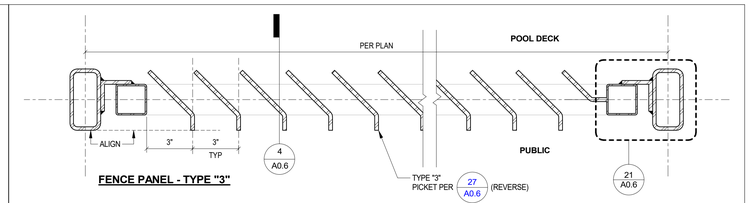

HSS HEADER @ GATES 3" = 1'-0" **29**



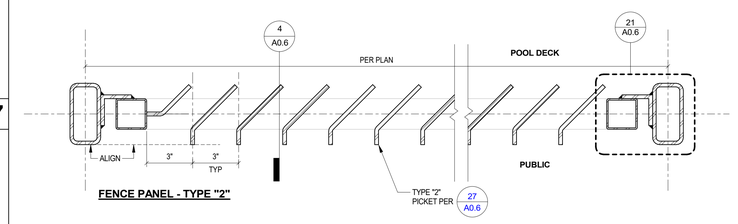

**PICKET - TYPES "2" & "3"**

**PICKET - TYPE "1"**

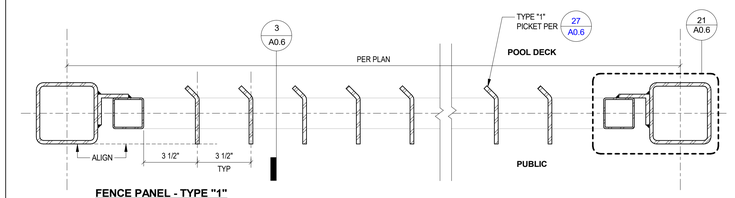
BENT PLATE FENCE PICKETS 6" = 1'-0" **27**




**FENCE PANEL - TYPE "3"**

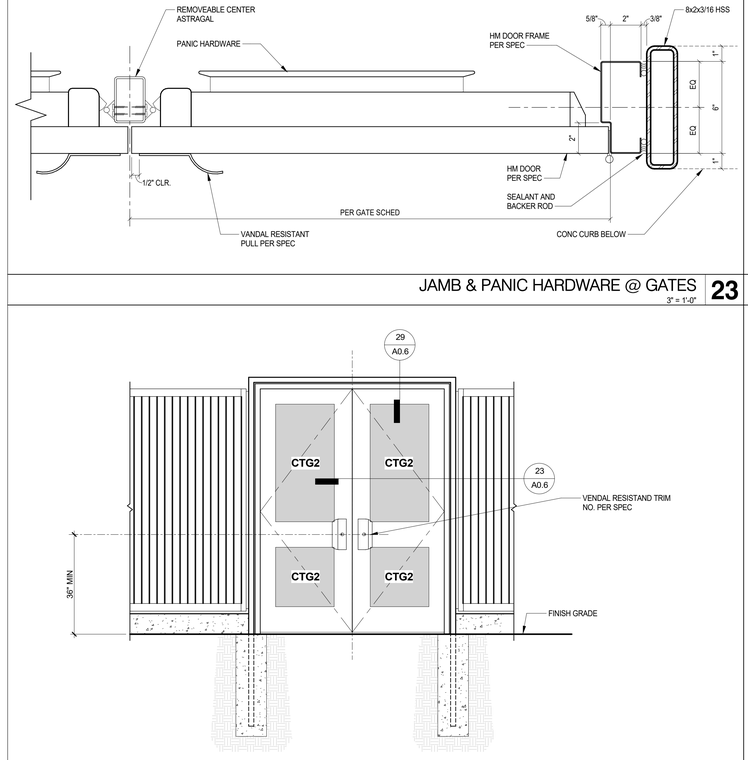



**FENCE PANEL - TYPE "2"**

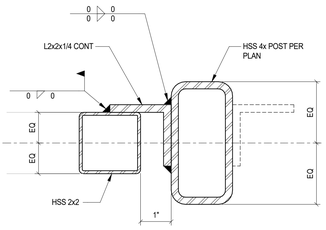



**FENCE PANEL - TYPE "1"**

EXTERIOR FENCING TYPE 3" = 1'-0" **19**



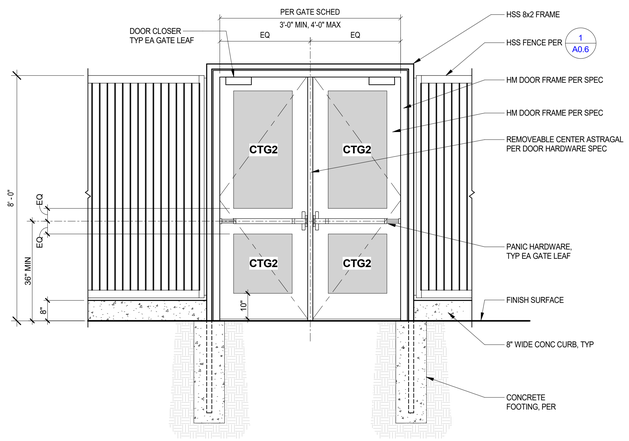

JAMB & PANIC HARDWARE @ GATES 3" = 1'-0" **23**




FENCE PANEL @ POST 6" = 1'-0" **21**

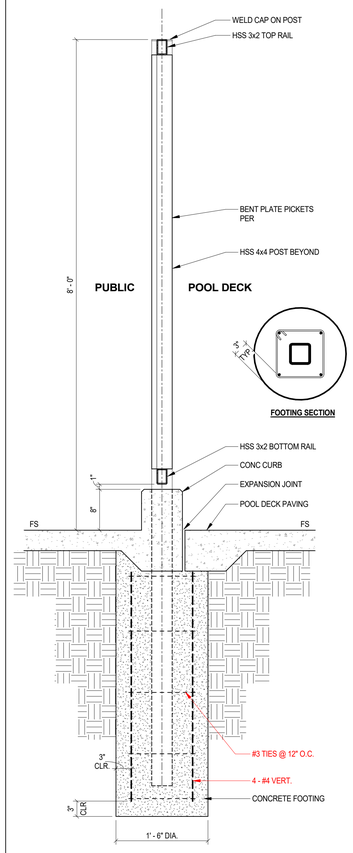



PULL SIDE OF GATE



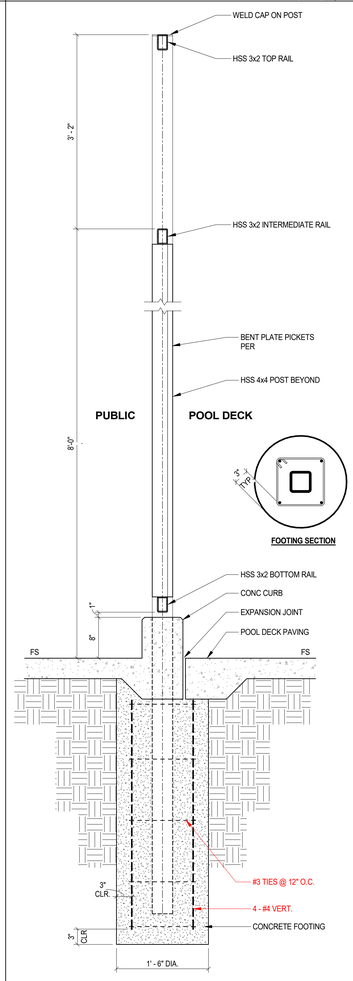

PUSH SIDE OF GATE

HM FRAME DOUBLE GATE 1/2" = 1'-0" **5**



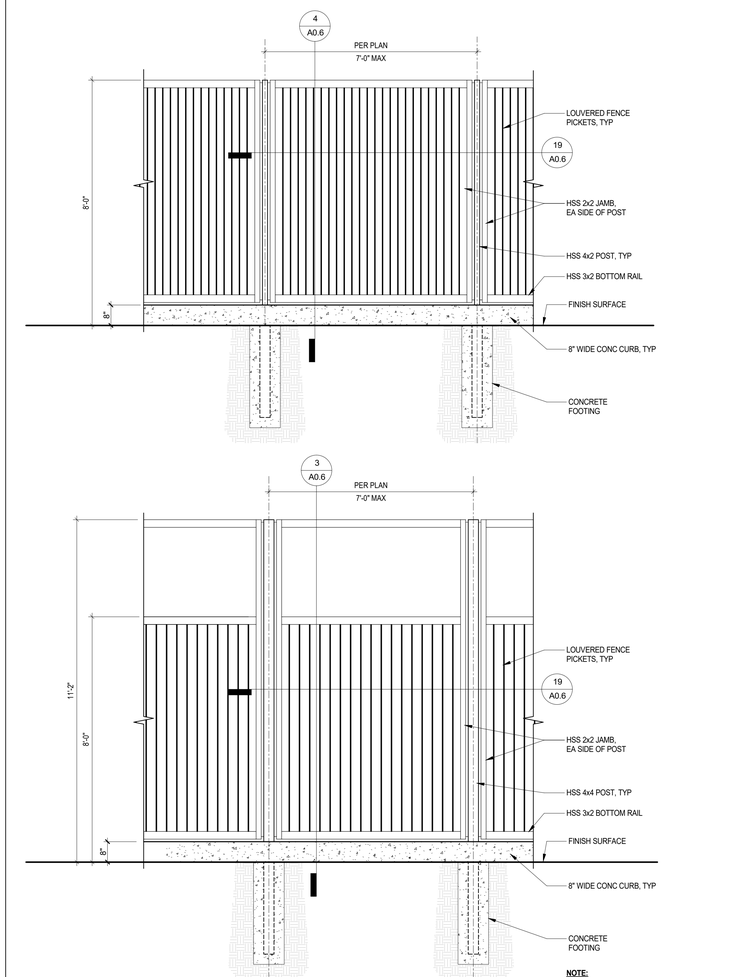

NOTE: VERTICAL AND HORIZ. MEMBERS TO REMAIN TRUE

FENCE SECTION - TYPES 2 & 3 1" = 1'-0" **4**




NOTE: VERTICAL AND HORIZ. MEMBERS TO REMAIN TRUE

FENCE SECTION - TYPE 1 1" = 1'-0" **3**




**NOTE:**

STEEL FENCE ELEVATIONS 1/2" = 1'-0" **1**

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# CENTENNIAL HIGH SCHOOL AQUATICS CENTER

**PROJECT ADDRESS:**
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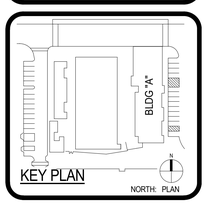
CORONA, CA 92881

**CONSTRUCTION DOCUMENTS**
FILE #: **33-H4** DSA APPLICATION #: **04-122208**




Consultant

Architect

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No. C-29312
REV. 11-30-20
STATE OF CALIFORNIA
FOR PLAN CHECK ONLY

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CNUSD

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REVISIONS

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**CONSTRUCTION DOCUMENTS**

## SITE PLAN - GATES & FENCE DETAILS

**A0.6**

**FILE PATH:** Z:\Projects\...
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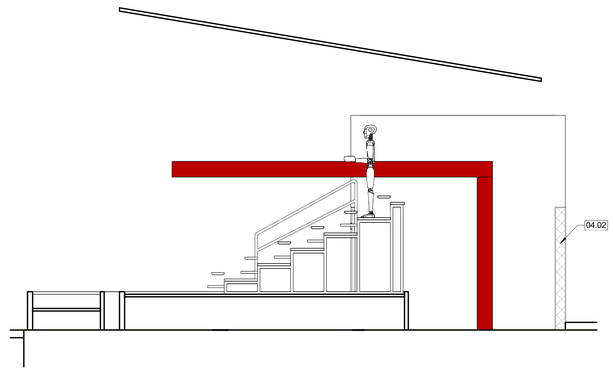
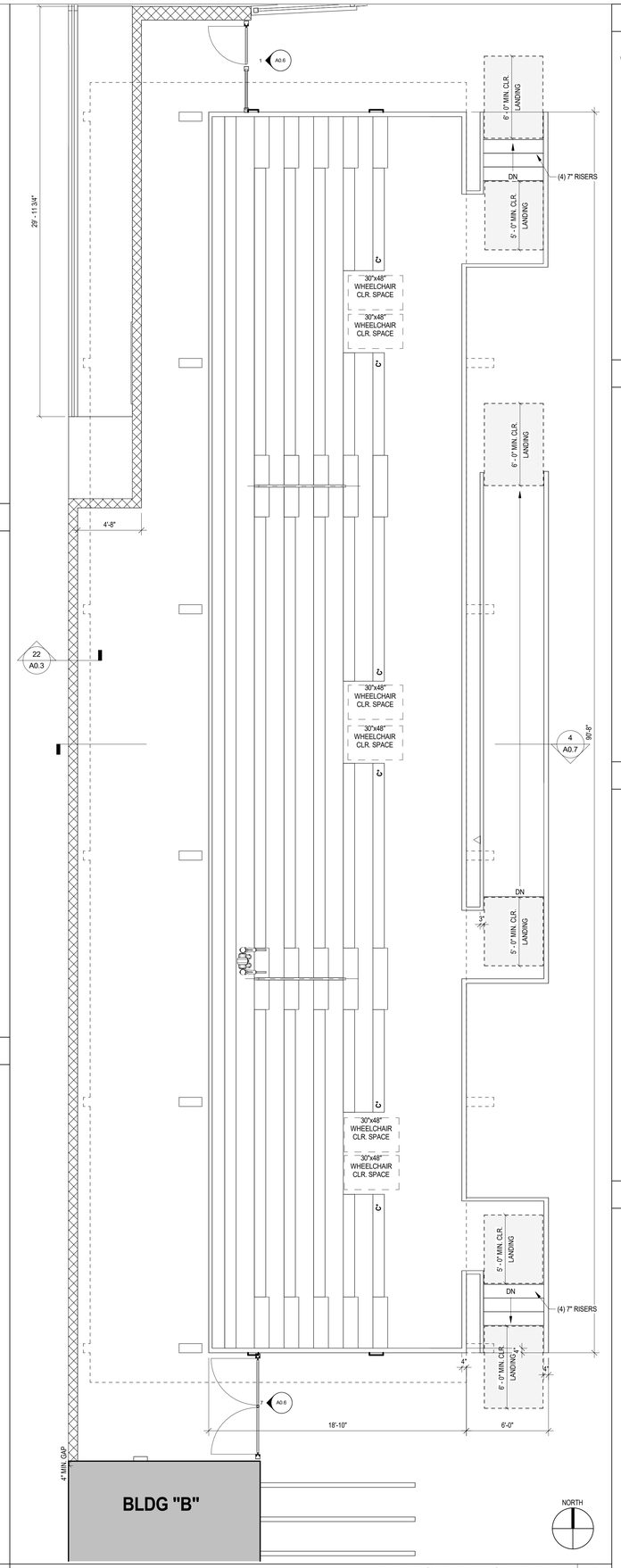
A0.7 - SITE PLAN - ENLARGED BLEACHER'S PLAN & SECTION




BLEACHERS SECTION 4
1/4" = 1'-0"




ENLARGED BLEACHER PLAN 2
1/4" = 1'-0"

## CONSTRUCTION KEYED NOTES

| # | Description |
|---|---|
| 04.02 | CONCRETE MASONRY UNIT WALL |

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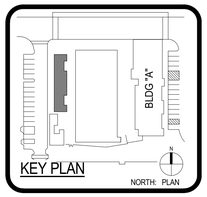
# CENTENNIAL HIGH SCHOOL AQUATICS CENTER

PROJECT ADDRESS:
1820 RIMPAU AVE,
CORONA, CA 92881

CONSTRUCTION DOCUMENTS
FILE #: 33-H4 DSA APPLICATION #: 04-122208




KEY PLAN
NORTH: PLAN

Consultant

Architect

LICENSED ARCHITECT
David T. Blain
No. C-36451
REN. 11-30-2023
STATE OF CALIFORNIA
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CLIENT
CNUSD

| DATE | PROJECT NUMBER |
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| 5/5/2023 | 220306 |

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CONSTRUCTION DOCUMENTS

## SITE PLAN - ENLARGED BLEACHER'S PLAN & SECTION

A0.7

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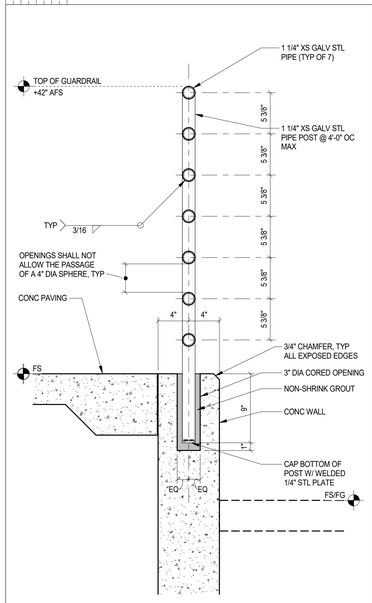
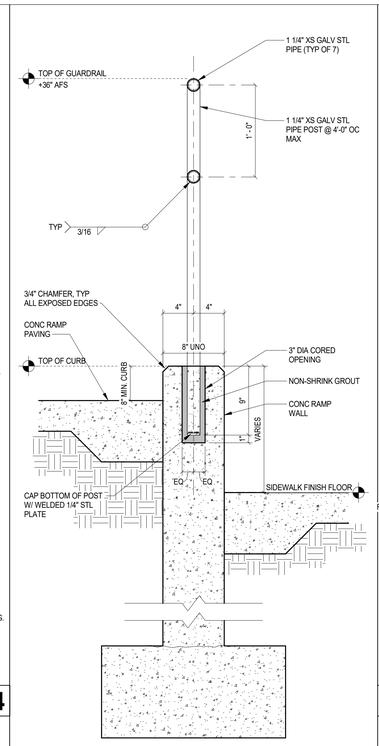
0" 1"



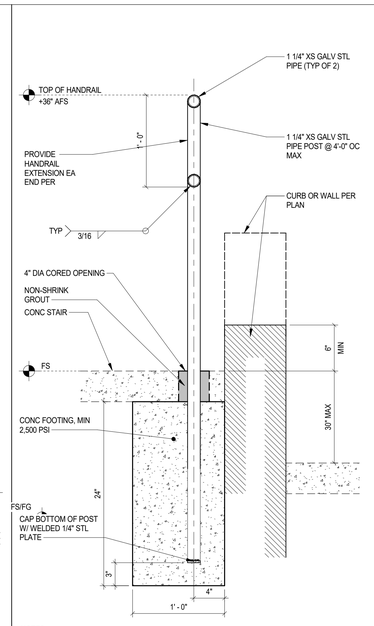

**NOTES:**
1. ALL EXPOSED WELDS SHALL BE GROUND SMOOTH. OBTAIN WELDING INSPECTION AFTER GRINDING.
2. ALL EXPOSED STEEL SHALL HAVE A GALVINIZED FINISH U.N.O.
3. ALL EXPOSED CONC WALL SURFACES (VERT & HORIZ) SHALL HAVE A SMOOTH-RUBBED FINISH U.N.O.
4. FINISH NON-SHRINK GROUT FLUSH TO ADJACENT CONCRETE TO PROVIDE UNIFORM APPEARANCE

CURB MOUNTED GUARDRAIL @ DROPOFF 1 1/2" = 1'-0" **24**



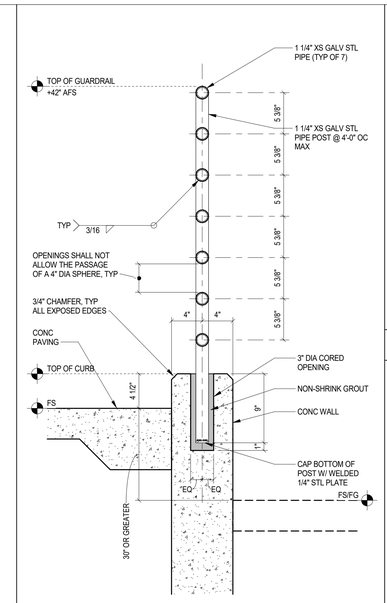

**NOTES:**
1. ALL EXPOSED WELDS SHALL BE GROUND SMOOTH. OBTAIN WELDING INSPECTION AFTER GRINDING.
2. ALL EXPOSED STEEL SHALL HAVE A GALVINIZED FINISH U.N.O.
3. ALL EXPOSED CONC WALL SURFACES (VERT & HORIZ) SHALL HAVE A SMOOTH-RUBBED FINISH U.N.O.
4. FINISH NON-SHRINK GROUT FLUSH TO ADJACENT CONCRETE TO PROVIDE UNIFORM APPEARANCE

CURB MOUNTED GUARDRAIL AT RAMP 1 1/2" = 1'-0" **17**



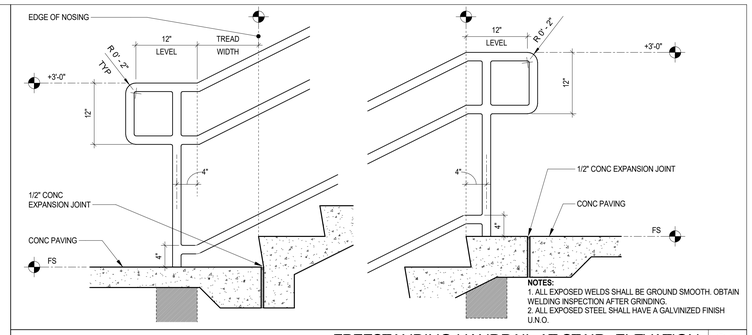

**NOTES:**
1. ALL EXPOSED WELDS SHALL BE GROUND SMOOTH. OBTAIN WELDING INSPECTION AFTER GRINDING.
2. ALL EXPOSED STEEL SHALL HAVE A GALVINIZED FINISH U.N.O.
3. FINISH NON-SHRINK GROUT FLUSH TO ADJACENT CONCRETE TO PROVIDE UNIFORM APPEARANCE

FREESTANDING HANDRAIL @ STAIR/RAMP 1 1/2" = 1'-0" **22**



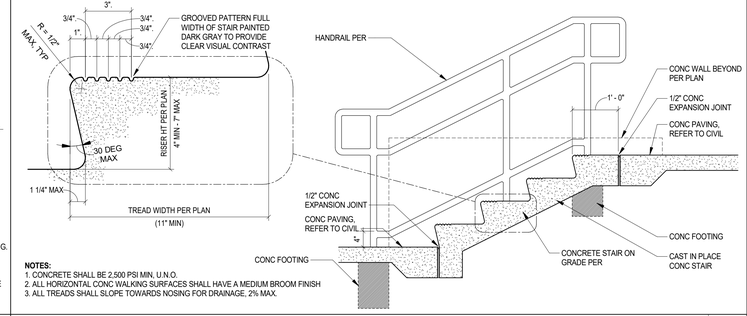

**NOTES:**
1. ALL EXPOSED WELDS SHALL BE GROUND SMOOTH. OBTAIN WELDING INSPECTION AFTER GRINDING.
2. ALL EXPOSED STEEL SHALL HAVE A GALVINIZED FINISH U.N.O.
3. ALL EXPOSED CONC WALL SURFACES (VERT & HORIZ) SHALL HAVE A SMOOTH-RUBBED FINISH U.N.O.
4. FINISH NON-SHRINK GROUT FLUSH TO ADJACENT CONCRETE TO PROVIDE UNIFORM APPEARANCE

CURB MOUNTED GUARDRAIL 1 1/2" = 1'-0" **21**



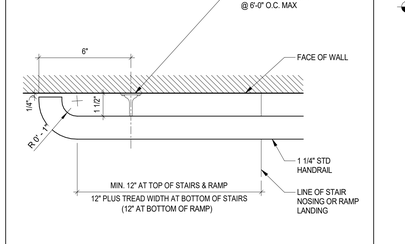

**NOTES:**
1. ALL EXPOSED WELDS SHALL BE GROUND SMOOTH. OBTAIN WELDING INSPECTION AFTER GRINDING.
2. ALL EXPOSED STEEL SHALL HAVE A GALVINIZED FINISH U.N.O.

FREESTANDING HANDRAIL AT STAIR -ELEVATION 1" = 1'-0" **25**

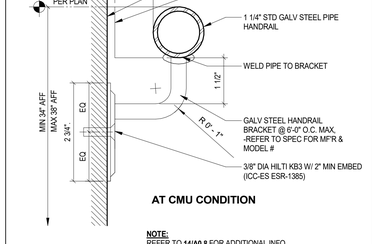



**NOTES:**
1. CONCRETE SHALL BE 2,500 PSI MIN, U.N.O.
2. ALL HORIZONTAL CONC WALKING SURFACES SHALL HAVE A MEDIUM BROOM FINISH
3. ALL TREADS SHALL SLOPE TOWARDS NOSING FOR DRAINAGE, 2% MAX.

CONCRETE STAIR ON GRADE 3/4" = 1'-0" **19**

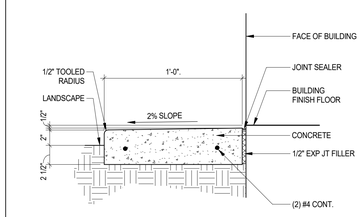



HANDRAIL EXTENSION AT WALL 3" = 1'-0" **14**



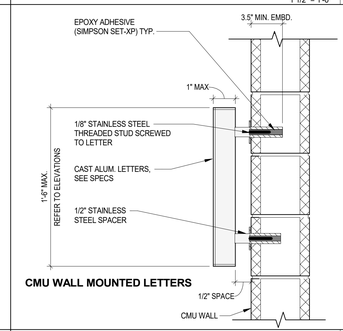

**NOTE:**
REFER TO **14/A0.8** FOR ADDITIONAL INFO.

HANDRAIL MOUNT AT WALL 6" = 1'-0" **13**



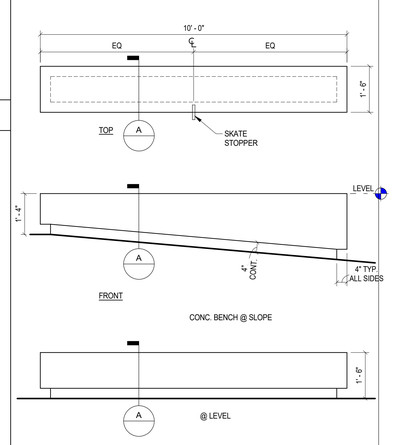

**NOTE:**
1. MINIMUM COMPRESSIVE STRENGTH 2,500 PSI
2. PROVIDE EXPANSION JOINT @ 20'-0" OC MAX
3. PROVIDE CONTROL JOINT @ 10'-0" OC MAX

CONCRETE MOW STRIP 1 1/2" = 1'-0" **8**




**CMU WALL MOUNTED LETTERS**

EXTERIOR BUILDING LETTERS 1 1/2" = 1'-0" **2**




CONC. BENCH 1/2" = 1'-0" **1**

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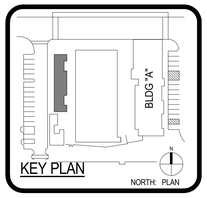
**CENTENNIAL HIGH SCHOOL AQUATICS CENTER**

PROJECT ADDRESS:
1820 RIMPAU AVE
CORONA, CA 92881

CONSTRUCTION DOCUMENTS
FILE #: 33-H4 DSA APPLICATION #: 04-122208






Consultant

Architect

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CONSTRUCTION DOCUMENTS

**SITE PLAN - RAMP & STAIR DETAILS**

**A0.8**

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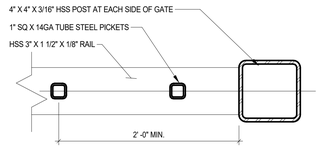
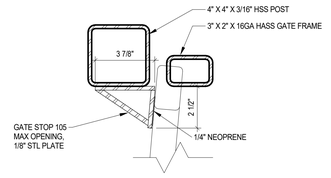
A0.9 - GATES AT BLEACHER

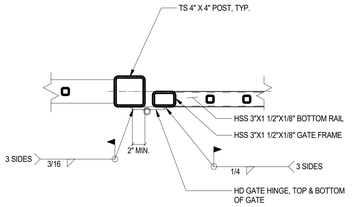
0" 1"



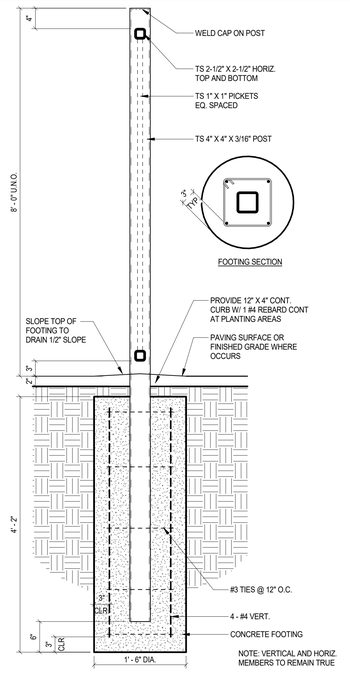

FENCE PANEL @ GATE POST 25
3" = 1'-0"




GATE STOP 21
3" = 1'-0"

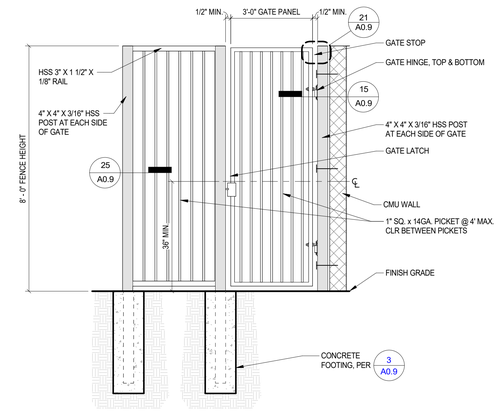



HINGE AT GATE 15
1 1/2" = 1'-0"



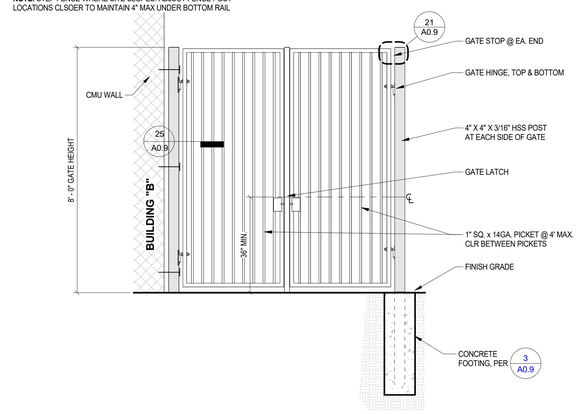

ORNAMENTAL FENCE STEEL POST 3
1" = 1'-0"

**NOTE:** STEP FENCE WHERE SITE SLOPES. ADJSUT FENCE POST LOCATIONS CLSOER TO MAINTAIN 4" MAX UNDER BOTTOM RAIL




DOUBLE GATE @ BLEACHER 1
1/2" = 1'-0"

**NOTE:** STEP FENCE WHERE SITE SLOPES. ADJSUT FENCE POST LOCATIONS CLSOER TO MAINTAIN 4" MAX UNDER BOTTOM RAIL




GATE @ BLEACHER 13
1/2" = 1'-0"

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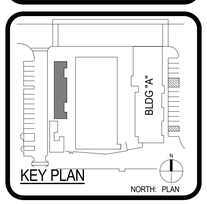
**CENTENNIAL HIGH SCHOOL AQUATICS CENTER**

PROJECT ADDRESS:
1820 RIMPAU AVE
CORONA, CA 92881
APN: 107-140-032

CONSTRUCTION DOCUMENTS
FILE #: 33-H4 DSA APPLICATION #: 04-122208




Consultant

Architect

LICENSED ARCHITECT
David T. Blank
No. C-36451
REN 11-30-2023
STATE OF CALIFORNIA

CLIENT
CNUSD

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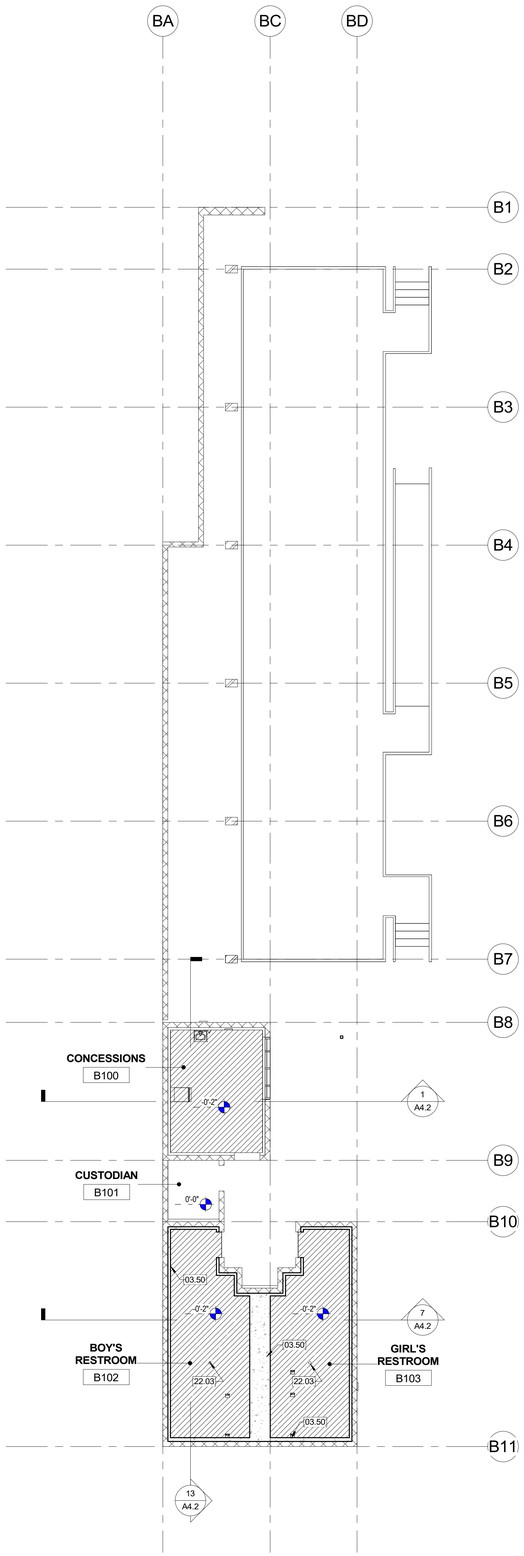
CONSTRUCTION DOCUMENTS

GATES AT BLEACHER

A0.9

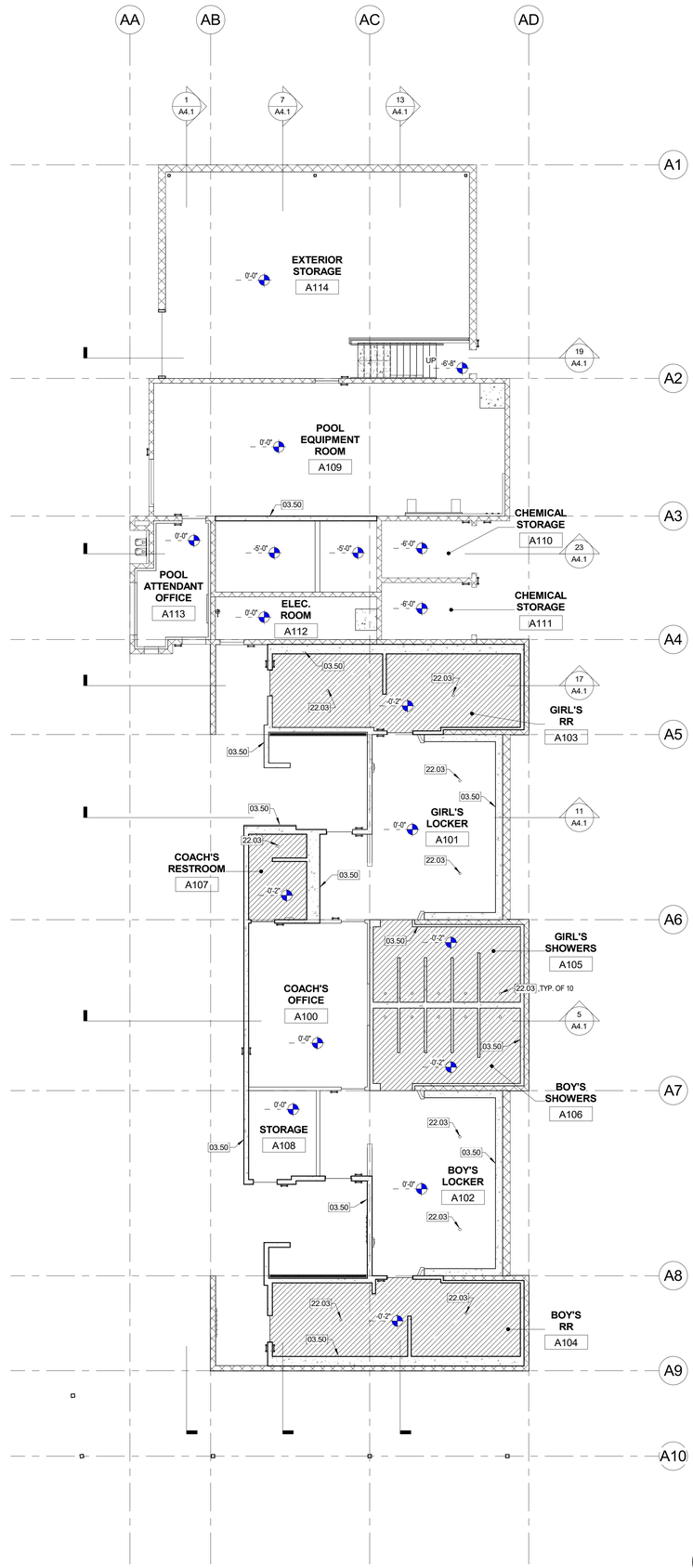
A1.0 - SLAB PLAN - BLDGS A & B

0" 1"




NORTH

SLAB PLAN - BLDG "B" 3
1/8" = 1'-0"




NORTH

SLAB PLAN - BLDG "A" 2
1/8" = 1'-0"

## CONSTRUCTION KEYED NOTES

| # | Description |
|---|---|
| 03.50 | 6" CONCRETE CURB |
| 22.03 | FLOOR DRAIN RE: PLUMB |

## SLAB PLAN LEGEND

DEPRESSED SLAB

6" CONCRETE CURB

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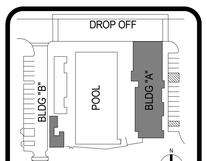
**CENTENNIAL HIGH SCHOOL**
**AQUATICS CENTER**

**PROJECT ADDRESS:**
1820 RIMPAU AVE.
CORONA, CA 92881

**CONSTRUCTION DOCUMENTS**
FILE #: **33-H4** DSA APPLICATION #: **04-122208**




Consultant

Architect

LICENSED ARCHITECT
David T. Blair
No. C-26464
REN. 11-30-2024
STATE OF CALIFORNIA

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**CONSTRUCTION DOCUMENTS**

# SLAB PLAN - BLDG'S A & B

# A1.0

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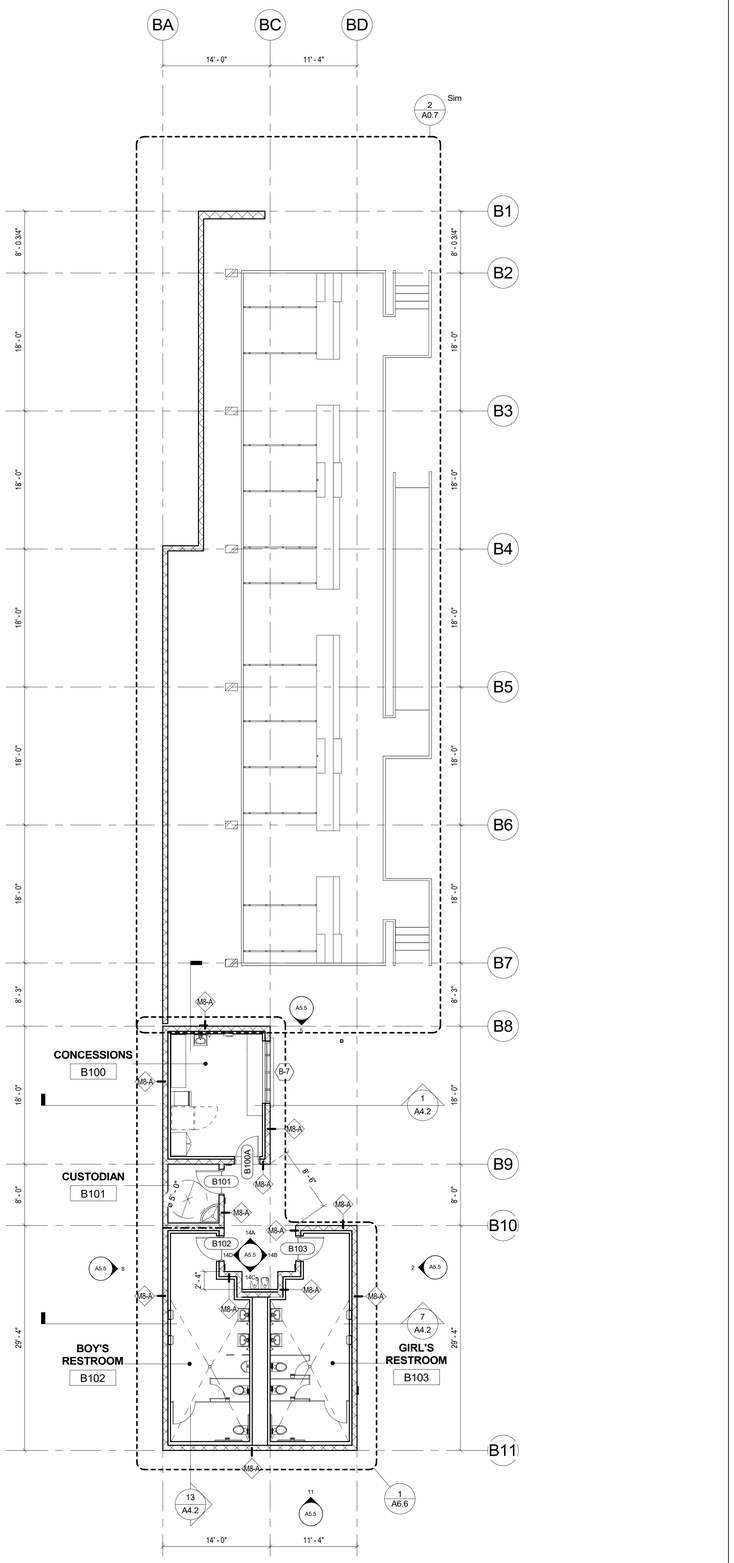
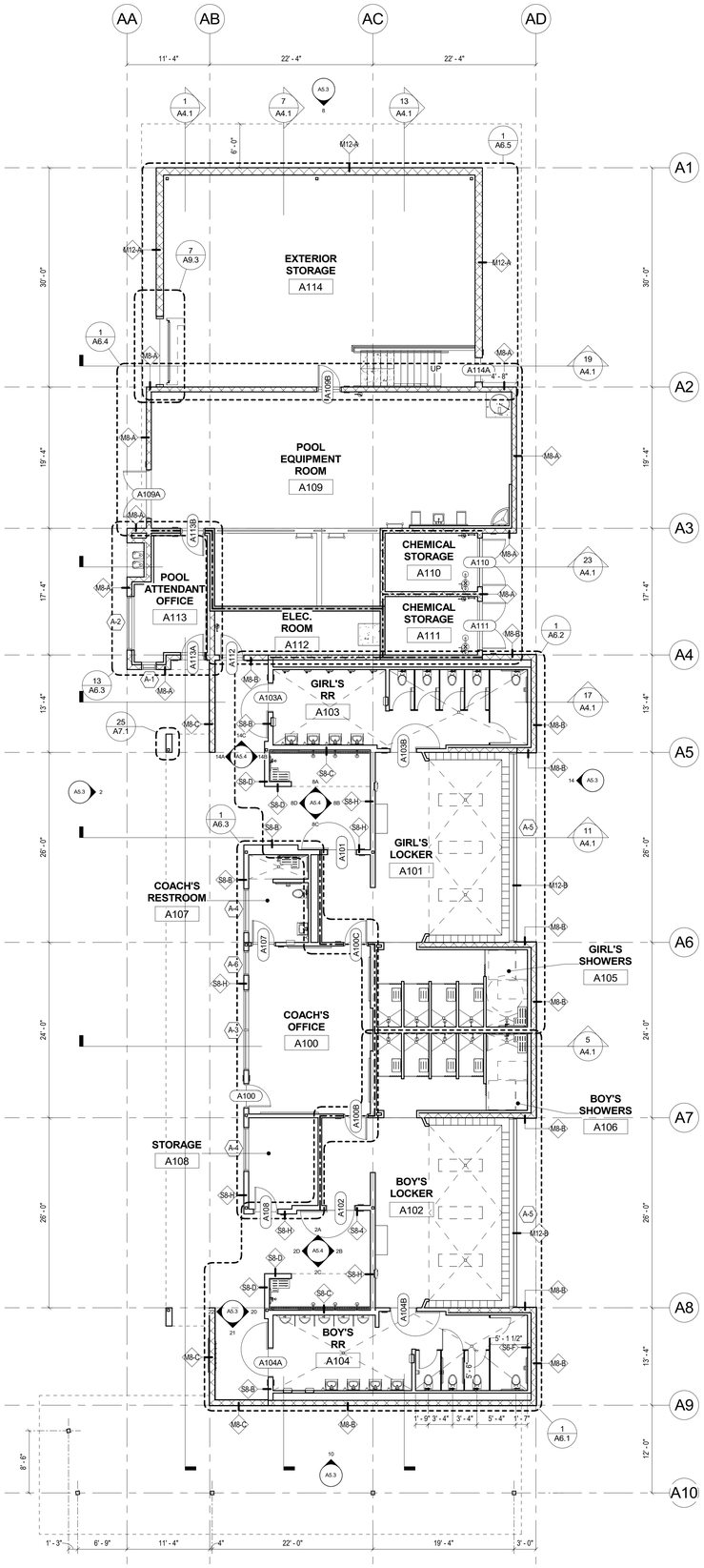
A1.1 - FLOOR PLAN - OVERALL BLDGS A & B

0" 1"




OVERALL FLOOR PLAN - BLDG "B" 4
1/8" = 1'-0"




OVERALL FLOOR PLAN - BLDG "A" 2
1/8" = 1'-0"

## CONSTRUCTION KEYED NOTES

| # | Description |
|---|---|

## TAGS LEGEND

SEE SHEET **G0.1** FOR GENERAL SYMBOL LEGEND

- # / # — INTERIOR & EXTERIOR ELEVATION TAG SEE SHEET
- M.O. — MASONRY OPENING
- S## - # — WALL PARTITIONS TAG, RE:
  - # INDICATES PARTITION TYPE
  - # INDICATES CORE WIDTH
  - LETTER INDICATES CORE TYPE (S=STUD - M=CMU)
- ##### — DOOR & GATE TAG, SEE SHEET
- A-# — WINDOW TAG, SEE SHEET

## WALL LEGEND

- 8" CONCRETE MASONRY UNIT WALL (CMU WALL) - ALL EXTERIOR SURFACES TO BE SEALED
- METAL FRAMED NON-BEARING WALL
- 1 HOUR RATED WALL
- 2 HOUR RATED WALL

## FLOOR PLAN GENERAL NOTES

1. ALL FINISH MATERIALS MUST MEET THE FLAME SPREAD RATINGS PER THE BUILDING CODE.
2. REFER TO INTERIOR ELEVATIONS FOR SPECIFIC MATERIAL LOCATIONS.
3. PAINT ALL EXPOSED DUCTWORK, CONDUIT, ELECTRICAL EQUIPMENT, PLUMBING PIPES, ETC. COLOR TO BE SELECTED BY ARCHITECT.
4. PAINT ALL NON-FACTORY FINISHED EXPOSED METAL.
5. REFER TO TYPICAL FLOORING TRANSITION DETAILS FOR ALL FLOORING MATERIALS.
6. CONTRACTOR WILL BE RESPONSIBLE FOR PROTECTING FINISHED FLOORING SURFACES FROM DAMAGE DURING ALL CONSTRUCTION PHASES.
7. PROVIDE BULLNOSE TRIM AT TRANSITIONS FROM CERAMIC WALL TILE TO OTHER MATERIAL, UNLESS NOTED OTHERWISE.
8. REFER TO REFLECTED CEILING PLANS FOR CEILING HEIGHTS.
9. ALL ELECTRICAL DEVICE COVERS ARE TO BE WHITE UNLESS NOTED OTHERWISE.
10. ALL HOLLOW METAL DOOR FRAMES TO BE PAINTED, COLOR TO BE SELECTED BY ARCHITECT.
11. REFER TO SHEET **G0.1** FOR TYPICAL SYMBOLS & ABBREVIATIONS
12. ALL DIMENSIONS ARE TO GRID LINES, FACE OF CONCRETE MASONRY UNITS, FACE OF STUDS, UNLESS NOTED OTHERWISE.
13. ALL FLOORS FINISH CHANGES SHALL OCCUR AT THE CENTERLINE OF DOORS UNLESS NOTED OTHERWISE. ALL FLOOR FINISH CHANGES SHALL HAVE THRESHOLDS OR REDUCER STRIPS.
14. COORDINATE HOUSEKEEPING PAD DIMENSIONS AND LOCATIONS WITH EQUIPMENT TO BE INSTALLED. RE: STRUCTURAL FOR REINFORCING.
15. ALUM. THRESHOLDS TO BE SET IN FULL BED OF SEALANT AT ALL EXT. DOORS
16. COORDINATE ROOF DRAIN LEADER LOCATIONS WITH FLOOR PLAN PRIOR TO SLAB CONSTRUCTION
17. FOR TYPICAL ROOM & DOOR SIGNAGE MOUNTING LOCATION, SEE SHEET **G0.7**
18. FOR TYPICAL TOILET FIXTURES AND TOILET ACCESSORIES MOUNTING HEIGHTS AND LOCATIONS, SEE SHEET **G0.8 & A6 SHEETS** U.N.O.
19. EXTERIOR MTL STUD WALLS TO RECEIVE FULL HEIGHT GYPSUM BOARD ON INTERIOR FACES.
20. THE THERMAL INSULATION VALUE AT EXTERIOR WALLS IS TO MATCH R-VALUE AS NOTED IN ENERGY CALCULATION AND SHALL NOT BE LESS THAN R-19.

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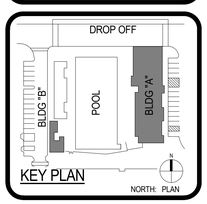
**CENTENNIAL HIGH SCHOOL AQUATICS CENTER**

**PROJECT ADDRESS:** 1820 RIMPAU AVE. CORONA, CA 92881

**CONSTRUCTION DOCUMENTS** DSA APPLICATION #: **04-122208** FILE #: **33-H4**




Consultant

Architect

LICENSED ARCHITECT David T. Blain No. C-29242 REN 11-30-2024 STATE OF CALIFORNIA

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**CONSTRUCTION DOCUMENTS**

**FLOOR PLAN - OVERALL BLDG'S A & B**

**A1.1**

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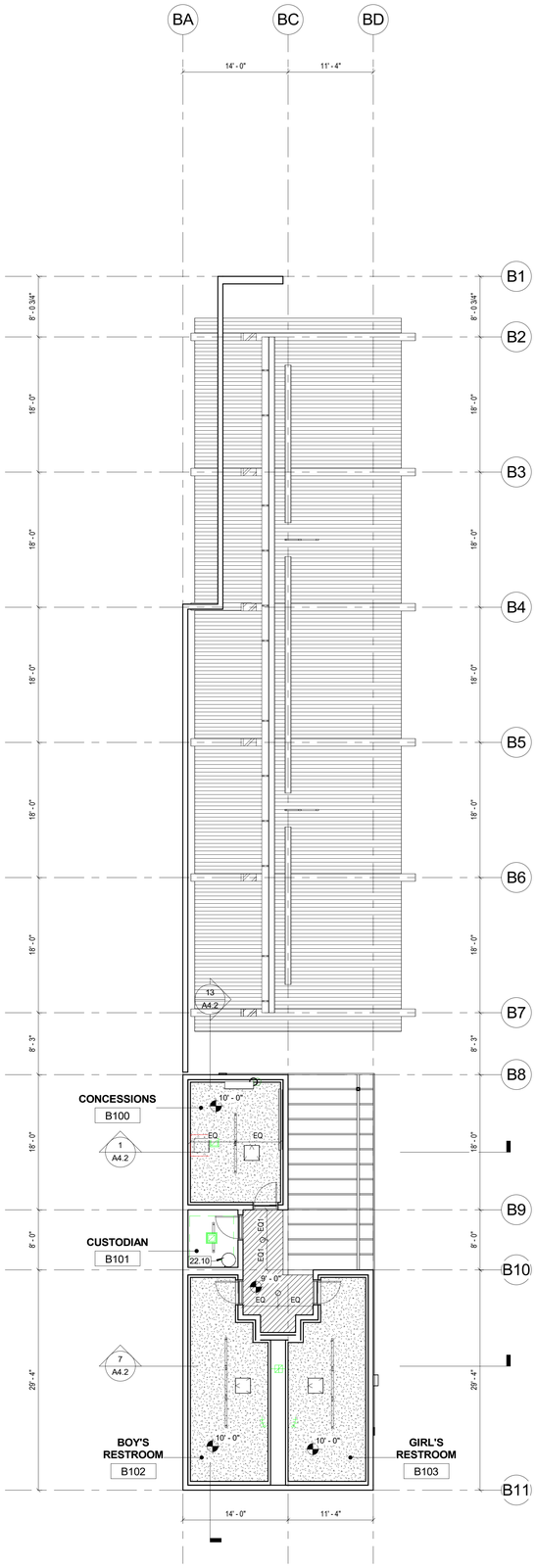
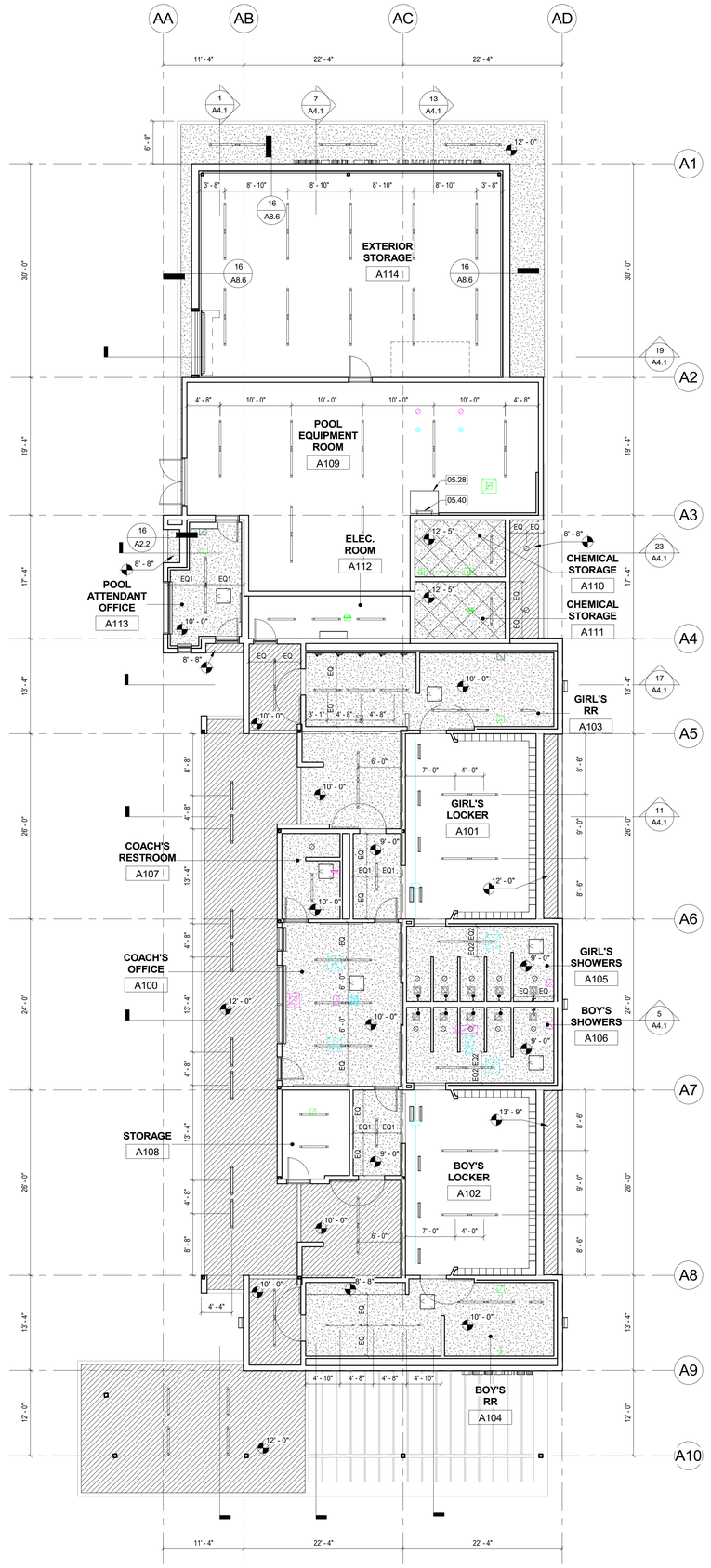
A2.1 - RCP - OVERALL BLDGS A & B

0" 1"




# CONSTRUCTION KEYED NOTES

| # | Description |
|---|---|
| 05.28 | ROOF HATCH |
| 05.40 | WALL MOUNTED ROOF ACCESS LADDER |
| 22.10 | WATER HEATER, RE: PLUMB |

# REFLECTED CEILING PLAN LEGEND

- EXTERIOR PLASTER CEILING
- GYP. BOARD CEILING
- NO CEILING, OPEN TO ROOF STRUCTURE ABOVE
- HARDLID CHEMICAL PROTECTION SEALER CEILING MOUNTED TO UNDERSIDE OF ROOF STRUCTURE
- MECHANICAL GRILLES, REFER TO MECHANICAL DRAWINGS.
- CEILING ACCESS PANEL, SEE DETAIL 1 / A7.1
- LIGHT FIXTURE, REFER TO ELECTRICAL DRAWINGS
- DOWN LIGHT FIXTURE, REFER TO ELECTRICAL DRAWINGS
- CEILING HEIGHTS AS MEASURED FROM LOCKER ROOM FINISH FLOOR

# RCP GENERAL NOTES

1. PAINT ALL EXPOSED DUCTWORK, CONDUIT, ELECTRICAL EQUIPMENT, PLUMBING PIPES, ETC. COLOR TO BE SELECTED BY ARCHITECT.
2. PAINT ALL NON-FACTORY FINISHED EXPOSED METAL.

NORTH

OVERALL RCP - BLDG "B"
1/8" = 1'-0" 4

NORTH

OVERALL RCP - BLDG "A"
1/8" = 1'-0" 2

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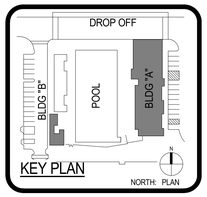
**CENTENNIAL HIGH SCHOOL AQUATICS CENTER**

**PROJECT ADDRESS:**
1820 RIMPAU AVE.
CORONA, CA 92881

**CONSTRUCTION DOCUMENTS**
FILE #: 33-H4 DSA APPLICATION #: 04-122208




Consultant

Architect

LICENSED ARCHITECT
David T. Blain
No. C-26454
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STATE OF CALIFORNIA

FOR PLAN CHECK ONLY

CLIENT
CNUSD

| DATE | PROJECT NUMBER |
|---|---|
| 5/5/2023 | 220306 |

REVISIONS

| No. | Description | Date |
|---|---|---|

**CONSTRUCTION DOCUMENTS**

**RCP - OVERALL BLDG'S A & B**

**A2.1**

FILE PATH: Z:\Projects\...
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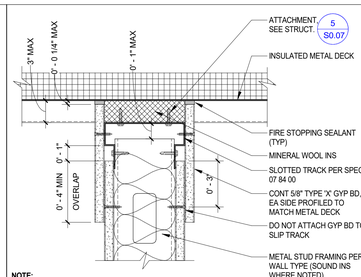
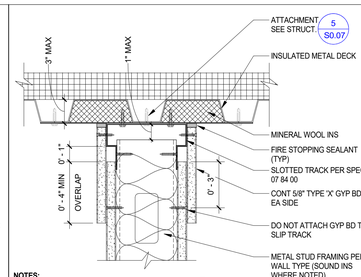
0" 1"




**NOTE:**
1. REF. UL DESIGN # HW-D-0060

*092900.13-S* *Rev 11/16*

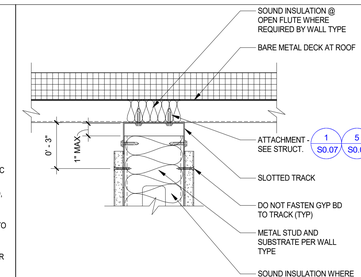
## FIRE RATED MTL STUD WALL PERP TO MTL DECK 28
3" = 1'-0"




**NOTES:**
1. REF. UL DESIGN # HW-D-0060
2. FOR CONDITON PERPENDICULAR TO DECK SEE 28 A2.2

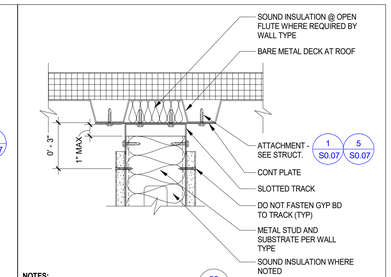
*092900.12-S* *Rev 11/16*

## FIRE RATED MTL STUD WALL PARALLEL TO MTL DECK 27
3" = 1'-0"




*092900.11-S* *Rev 11/16*

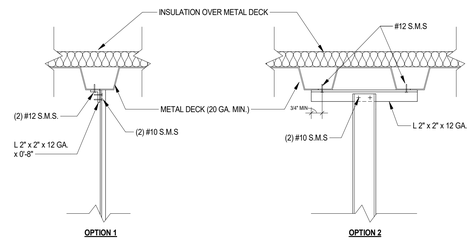
## MTL STUD WALL PERP TO MTL DECK 26
3" = 1'-0"



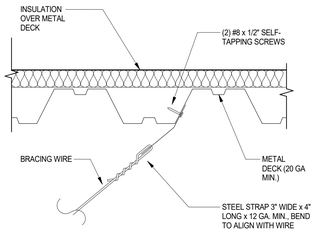

**NOTES:**
1. FOR CONDITION PERPENDICULAR TO DECK SEE 26 A2.2

*092900.10-S* *Rev 11/16*

## MTL STUD WALL PARALLEL TO MTL DECK 25
3" = 1'-0"



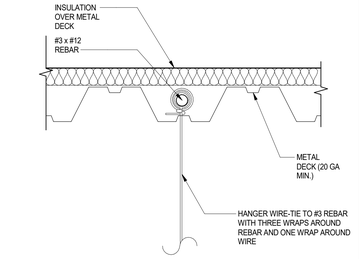

**OPTION 1** **OPTION 2**




**NOTES:**
- IF SELF-TAPPING SCREWS ARE USED WITH CONCRETE FILL, SET SCREWS BEFORE PLACING CONCRETE.

*095100.4.2G-S*

## BRACING WIRE TO METAL DECK 20
6" = 1'-0"

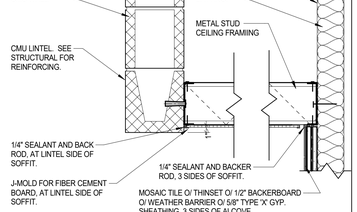



**NOTES:**
- REFER TO **4/A2.2** FOR ADDITIONAL DETAILS.

*095100.4.2G-S*

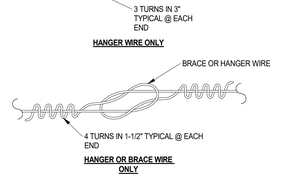
## HANGER WIRE TO MTL DECK 19
6" = 1'-0"

## CHANNEL STRUT 21
3" = 1'-0"




**NOTE:**
- PROVIDE STAINLESS STEEL FASTENERS AND METAL BREAK MATERIAL BETWEEN ALL DISSIMILAR METALS, TYP. THROUGHOUT PROJECT.

## D.F. SOFFIT DETAIL 16
1 1/2" = 1'-0"




**HANGER WIRE ONLY**



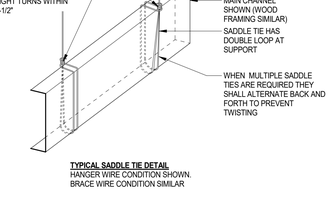

**HANGER OR BRACE WIRE ONLY**

**NOTES:**

WIRE SPLICES ARE SHOWN LOOSELY TIED FOR ILLUSTRATIVE PURPOSES ONLY AND SHALL BE DRAWN TIGHT TO COMPLETE INSTALLATION WHEN CONSTRUCTED.

*095100.6.1G-S*

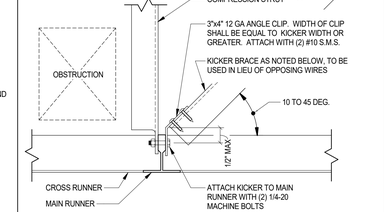
## CEILING WIRE SPLICES 15
6" = 1'-0"




**TYPICAL SADDLE TIE DETAIL**
HANGER WIRE CONDITION SHOWN. BRACE WIRE CONDITION SIMILAR

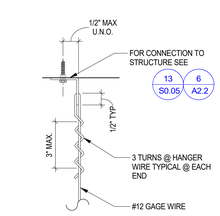
*095100.4.29-S*

## TYP SADDLE TIE DETAIL 14
1 1/2" = 1'-0"




**NOTE:**
1. KICKER BRACE = 2-1/2" 20GA METAL STUD (2505137-33) FOR SPANS 5'-0" AND LESS
2. KICKER BRACE = 4" 18GA METAL STUD (400S162-43) FOR SPANS 5'-0" TO 8'-0"
3. KICKER BRACE = 4" 16GA METAL STUD (400S200-54) FOR SPANS 8'-0" TO 12'-6"

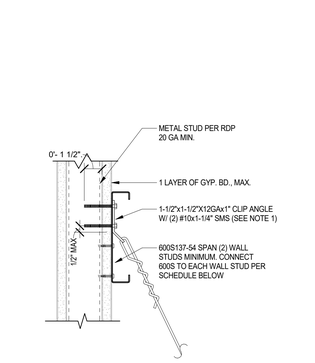
## METAL STUD BRACE @ CEILING 13
3" = 1'-0"




**HANGER WIRE**

*095100.4.10-S*

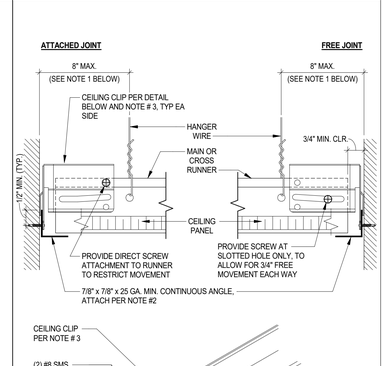
## HANGER AND BRACING WIRE TYP 9
3" = 1'-0"

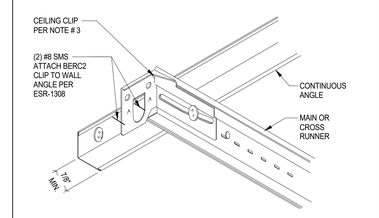



| WALL STUD GAUGE | CONNECTION TO WALL STUD (WITH GYP. BD.) | CONNECTION TO WALL STUD (WITHOUT GYP. BD.) |
|---|---|---|
| 20 GAUGE | (5) #10x1-1/4" SMS | (3) #10x1-1/4" SMS |
| 18 GAUGE | (4) #10x1-1/4" SMS | (2) #10x1-1/4" SMS |

NOTES:
1. THE CLIP ANGLE CAN BE ATTACHED DIRECTLY TO THE WALL STUD FLANGE PROVIDED BOTH OF THE FOLLOWING CONDITIONS ARE MET:
- THE WALL STUD IS 18 GA MIN. AND CAPABLE OF SUPPORTING THE BRACE FORCE.
- THE BRACE WIRE ALIGNS WITH THE WALL STUD WEB.

## HANGER WIRE TO METAL STUD WALL 2
3" = 1'-0"

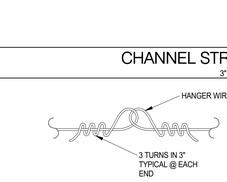



**NOTES:**
1. PROVIDE #12 GAGE HANGER WIRES AT THE ENDS OF ALL MAIN AND CROSS RUNNERS WITHIN EIGHT (8) INCHES OF THE SUPPORT OF WITHIN ONE-FORTH (1/4) OF THE LENGTH OF THE END TEE, WHICHEVER IS LESS, FOR THE PERIMETER OF THE CEILING AREA. PERIMETER WIRES ARE NOT REQUIRED WHEN THE LENGTH OF THE END TEE IS EIGHT (8) INCHES OR LESS.
2. AT METAL STUD FRAMING: (1) #10 SMS TO 20 GA. MIN. WALL STUD @ 24" O.C. AT CMU WALL: (1) 0.157" DIA. x 1" MIN. EMBED. HILTI X-U SHOT PIN (ICC ESR-2269) @ 24" O.C.
3. CEILING CLIP: ARMSTRONG BERC2 CLIP, OR EQUAL

*095100.2.6G-S*

## SUSPENDED CEILING PERIMETER JOINTS 1
6" = 1'-0"




**BRACING WIRE**

*095100.4.10-S*

## BRACING WIRE TYP 3
3" = 1'-0"

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# CENTENNIAL HIGH SCHOOL AQUATICS CENTER

PROJECT ADDRESS:
1820 RIMPAU AVE
CORONA, CA 92881

CONSTRUCTION DOCUMENTS
FILE #: 33-H4 DSA APPLICATION #: 04-122208



DROP OFF
BLDG "B"
POOL
BLDG "A"
N
KEY PLAN
NORTH: PLAN

Consultant

Architect
LICENSED ARCHITECT Gene T. Blair No. C-28451 EXPIRES 11-30-2024 STATE OF CALIFORNIA
FOR PLAN CHECK ONLY

CLIENT
CNUSD

| DATE | PROJECT NUMBER |
|---|---|
| 5/5/2023 | 220306 |

REVISIONS

| No. | Description | Date |
|---|---|---|
| | | |

CONSTRUCTION DOCUMENTS

RCP - DETAILS

A2.2

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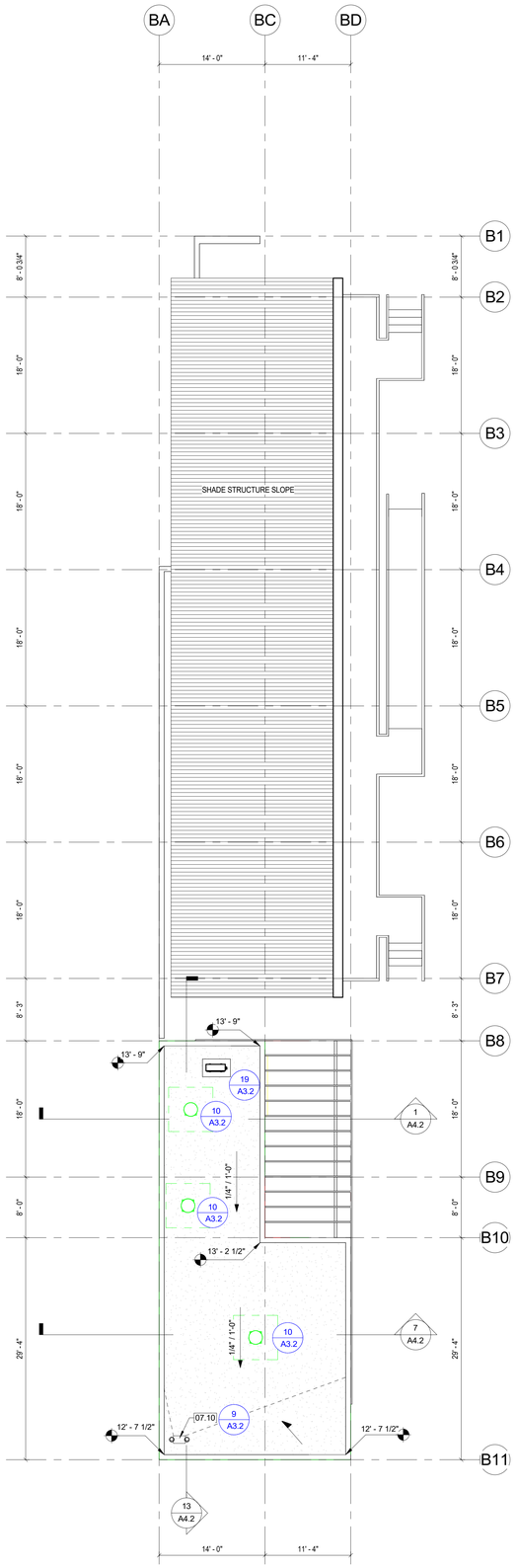
5/4/2023 11:38:14 AM

A3.1 - ROOF PLAN - OVERALL BLDGS A & B

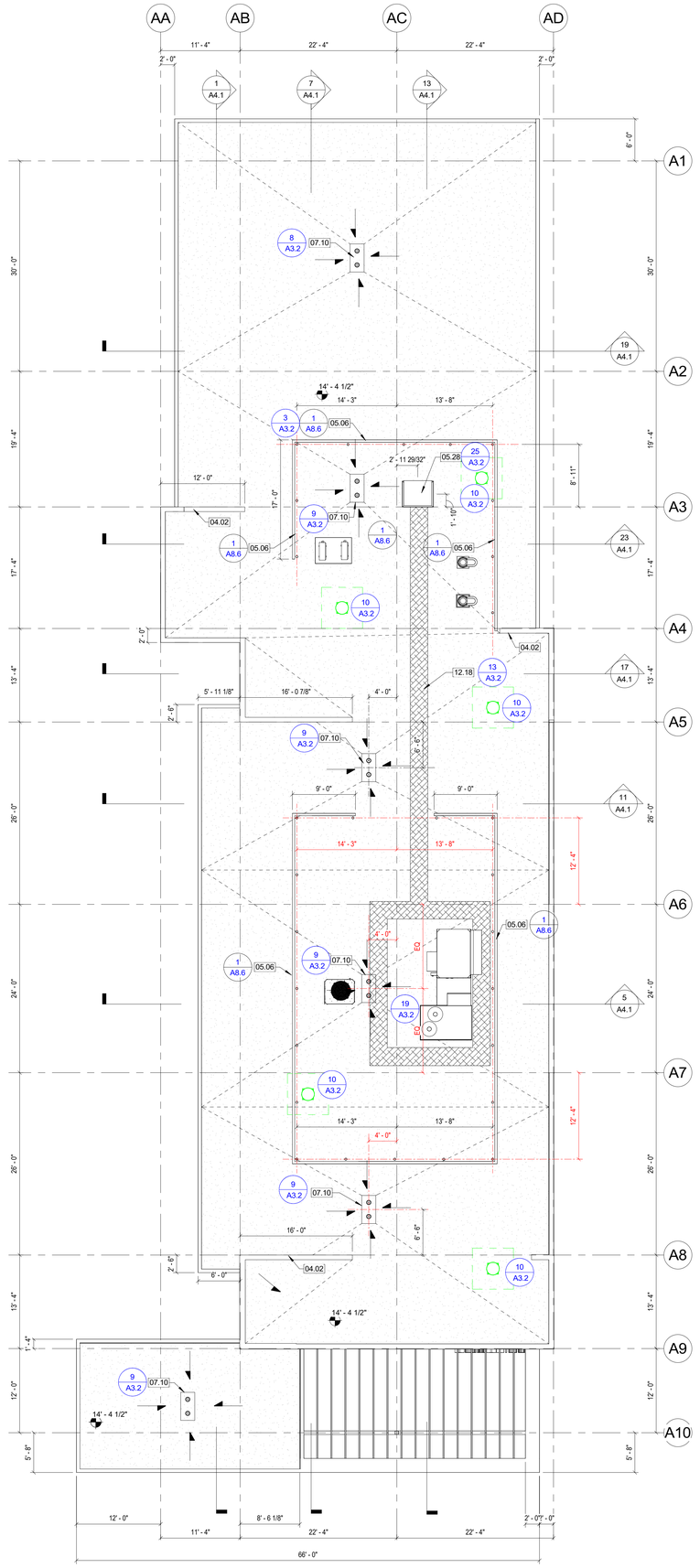
0" 1"




NORTH

ROOF PLAN - BLDG "B"
1/8" = 1'-0"

4




NORTH

ROOF PLAN - BLDG "A"
1/8" = 1'-0"

2

## CONSTRUCTION KEYED NOTES

| # | Description |
|---|---|
| 04.02 | CONCRETE MASONRY UNIT WALL |
| 05.06 | LOUVERED MECHANICAL SCREEN |
| 05.28 | ROOF HATCH |
| 07.10 | ROOF DRAIN, REFER TO PLUMBING DRAWINGS |
| 12.18 | ROOF WALKING PAD, RE |

## ROOFING GENERAL NOTES

1. CONTRACTOR SHALL REVIEW AND COORDINATE WITH ARCHITECTURAL, MEP, AND STRUCTURAL DOCUMENTS TO ASCERTAIN EXACT CONDITIONS AND COMPONENTS RELATED TO THE WORK DESCRIBED BY THESE DOCUMENTS. ALL WORK SHALL BE IN ACCORDANCE WITH ACCEPTED MANUFACTURER'S PRINTED INSTRUCTIONS AND NRCA STANDARDS.
2. DIMENSIONS, DETAILS, EQUIPMENT SIZE AND LOCATION SHOWN IN THESE CONSTRUCTION DOCUMENTS ARE FOR CONVEYANCE OF DESIGN INTENT ONLY. EXACT SIZE, LOCATION, TYPE OF MATERIAL AND TYPE OF CONSTRUCTION OF INSTALLED CONDITIONS ARE THE RESPONSIBILITY OF THE CONTRACTOR TO ASCERTAIN AND CONFIRM.
3. INDICATED ROOF HEIGHTS ARE GENERAL IN NATURE. RE: STRUCTURAL FOR FRAMING HEIGHTS.
4. REFER TO NOMENCLATURE FOR TYPE OF ROOF SYSTEM. AREAS ARE MARKED WITH DESIGNATED LETTER ON ROOF PLAN.
5. NOTE THAT THE DETAILS DRAWN ARE GENERIC IN NATURE AND ARE NOT NECESSARILY LOCATED AND KEYED TO THE ROOF PLANS.
6. ALL CRICKETS AND TAPERED INSULATION SHALL BE INSTALLED WITH A FINISHED 1/2" PER FOOT MIN. SLOPE. CRICKET THE UP SLOPE SIDE OF ALL SQUARE CURBS AND PROJECTIONS OVER 20" IN WIDTH. CRICKET DETAIL SIMILAR TO EXPANDED CANT.
7. ALL CURB MOUNTED HVAC UNITS, EQUIPMENT, ETC. SHALL HAVE A MINIMUM 10" CURB HEIGHT.
8. WORK TO ANY UTILITY CONDUIT OR PIPE SHALL BE PERFORMED BY SPECIFIC LICENSED SUBCONTRACTORS SPECIALIZING IN HVAC, PLUMBING AND ELECTRICAL WORK. PERMITS AND INSPECTIONS ARE REQUIRED.
9. UNLESS INDICATED OTHERWISE ON THE CONSTRUCTION DOCUMENTS, ALL INSTALLED JOINTS / AREA DIVIDERS / CURB MOUNTED EQUIPMENT / SKYLIGHTS SHALL BE MIN. 10" ABOVE ROOF DECK.
10. ALL SOIL STACK FLASHING SHALL BE A MIN. 10" ABOVE FINISHED ROOF SURFACE. COUPLE PVC PIPE ABOVE DECK AND COUPLE CAST IRON PIPE BELOW DECK. PROPERLY SUPPORT PIPE BELOW ROOF DECK FROM LATERAL MOVEMENT.
11. ALL PIPING/ CONDUITS/ ETC. SHALL BE A MIN. 10" ABOVE ROOF SURFACE. PROVIDE PORTABLE PIPE HANGERS WITH PROTECTION PADS AS SPECIFIED. MEP CONTRACTORS SHALL PROVIDE SUPPORTS FOR UTILITY LINES.
12. PROVIDE "MERCURY" GAS LINE TEST (COORDINATE WITH OWNER AND ARCHITECT FOR WITNESS OF THE TEST). REPAIR ANY FOUND LEAKS AND RETEST AS REQUIRED.
13. PROVIDE SHEET METAL HOODED (WITH METAL FACE CLOSURE) CAPS, WOOD CURB, BOX COVER AT ALL GAS AND WATER PIPE ROOF PENETRATIONS AS DETAILED AND SPECIFIED. PROVIDE POSITIVE SLOPE AWAY FROM FACE COVER.
14. PROVIDE WALKWAY PROTECTION PADS AS SPECIFIED AROUND ALL ROOF HATCHES, HVAC ROOFTOP UNITS, DOORS THAT OPEN ONTO ROOF AND AT TOP AND BOTTOM OF ALL ROOF TOP ACCESS LOCATIONS.
15. ISOLATE ALL HEAT PIPES / FLUES AS DETAILED AND RECOMMENDED AND OUTLINED IN THE NRCA MANUAL FOR HOT STACK FLASHING AND AS DETAILED.
16. ALL OUTSIDE AIR INTAKES SHALL BE COVERED TO ELIMINATE ODORS AND FUMES FROM ENTERING INTO THE BUILDING DURING CONSTRUCTION WORK.
17. AFTER SUBSTANTIAL COMPLETION, THE GENERAL CONTRACTOR SHALL EXAMINE AND CLEAN DRAIN LINES AS INSTALLED (AS APPLICABLE) GUTTERS OF DEBRIS AND BLOCKAGE, FLUSH WITH WATER TO ENSURE THAT DRAINS AND GUTTERS FLOW FREELY.
18. PRIOR TO COMMENCEMENT OF WORK, COORDINATE WALK OF ENTIRE ROOF WITH ROOFING MANUFACTURER'S TECHNICAL REPRESENTATIVE TO IDENTIFY AND LOCATE ALL AREAS OF HIGH SLOPE OR OTHER CONDITIONS WHICH MIGHT REQUIRE SPECIAL PROCEDURES FOR SYSTEM ATTACHMENT.
19. REFER TO MEP DRAWINGS FOR SIZE AND LOCATION OF INSTALLED ROOF DECK PENETRATIONS AND ROOF TOP EQUIPMENT.
20. INSTALL SPLASH PAN AT ALL LOCATIONS WHERE ROOF DRAINAGE DISCHARGES ONTO ROOF AREA. INSTALL INSTALLED SPLASH BLOCKS WHERE ROOF DRAINAGE DISCHARGES ON GROUND.
21. REFER TO GENERAL DETAILS FOR TYPICAL SPLASH PAN, ROOF DRAIN AND OVERFLOW DRAIN DETAILS.
22. GENERAL CONTRACTOR TO ENSURE ALL ROOFTOP PENETRATIONS (SOIL STACKS, VENTS, ETC.) ARE INSTALLED MIN. 4'-0" FROM OTHER DECK PENETRATIONS, RISE WALLS, AND ROOF EDGE. MECHANICAL EQUIPMENT TO BE LOCATED MIN. 10'-0" FROM PERIMETER EDGE AND NO CLOSER THAN 4'-0" FROM RISE WALLS, OR ANY OTHER ROOF PENETRATION.
23. LOCATE PERIMETER DRAINS MAX. 6'-0" FROM EDGE TYPICAL UNLESS SHOWN OTHERWISE. (GENERAL CONTRACTOR TO COORDINATE WITH ROOFING AND PLUMBING CONTRACTOR.)
24. THROUGH WALL BASE FLASHING MIN. HEIGHT 10" AND MAX. HEIGHT 20" FROM FINISH DECK. DO NOT STEP THROUGH WALL FLASHING CLOSER THAN 6'-0" FROM CORNERS.
25. GENERAL CONTRACTOR SHALL COORDINATE LOCATION AND ORIENTATION OF ROOF HATCH AND ACCESS LADDER.
26. GENERAL CONTRACTOR SHALL COORDINATE ALL TOP OF STEEL TO TOP OF BLOCKING AND SUBSTRATE BOARD DIMENSIONS IN FIELD PRIOR TO ORDERING MATERIALS. NO ADDITIONAL COMPENSATION WILL BE GRANTED FOR FAILURE TO COORDINATE THESE DIMENSIONS.
27. GENERAL CONTRACTOR SHALL VERIFY ROOF SLOPES WILL PROPERLY DRAIN AS SHOWN. TAPERED INSULATION HATCHING SHOWN IS NOT INTENDED TO ILLUSTRATE THE ENTIRE LIMITS OF TAPERED INSULATION. ROOF AREAS NOT SLOPED BY STRUCTURE SHALL BE SLOPED WITH TAPERED INSULATION TO ACHIEVE PROPER DRAINAGE.
28. PROVIDE ONE WAY MOISTURE VENTS AT ALL LIGHTWEIGHT CONCRETE OR GYPSUM OVER POUR AREAS AS RECOMMENDED BY THE ROOFING SYSTEM MANUFACTURER.
29. PAINT ALL EXPOSED GAS PIPE.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# CENTENNIAL HIGH SCHOOL AQUATICS CENTER

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CONSTRUCTION DOCUMENTS
FILE #: 33-H4 DSA APPLICATION #: 04-122208




Consultant

Architect

LICENSED ARCHITECT
David T. Blain
No. C-29243
FOR PLAN CHECK ONLY
REV 11-30-2022
STATE OF CALIFORNIA

CLIENT
CNUSD

| DATE | PROJECT NUMBER |
|---|---|
| 5/5/2023 | 220306 |

REVISIONS

| No. | Description | Date |
|---|---|---|

CONSTRUCTION DOCUMENTS

# ROOF PLAN - OVERALL BLDG'S A & B

A3.1

FILE PATH: Z:\Projects\...
5/4/2023 11:37:14 AM

A3.2 - ROOF DETAILS

0" 1"

## 30 NOT USED
NOT TO SCALE

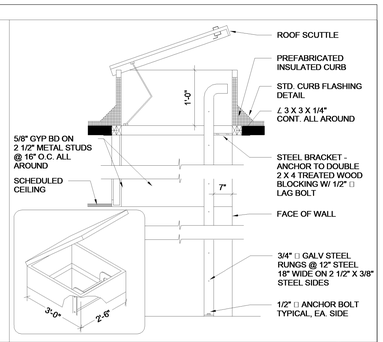
## 29 NOT USED
NOT TO SCALE

## 28 NOT USED
NOT TO SCALE

## 27 NOT USED
NOT TO SCALE

## 26 NOT USED
NOT TO SCALE

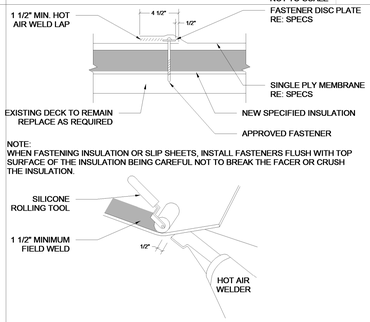
## 25 ROOF HATCH
NOT TO SCALE



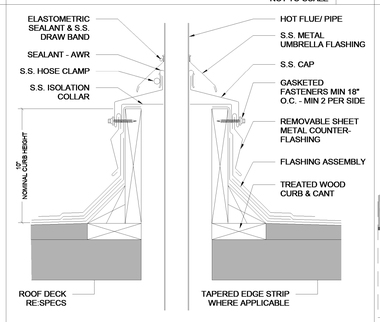

## 24 NOT USED
NOT TO SCALE

## 23 NOT USED
NOT TO SCALE

## 22 NOT USED
NOT TO SCALE




## 21 NOT USED
NOT TO SCALE

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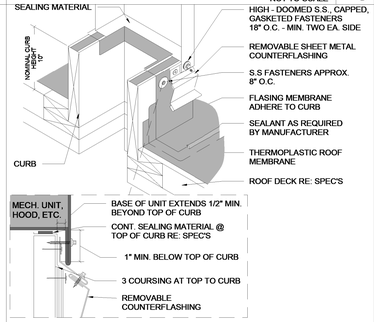
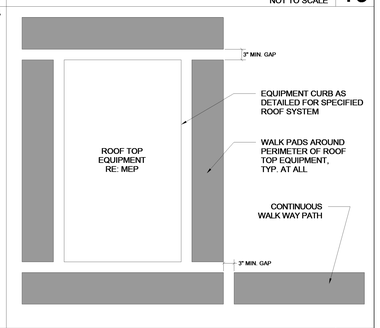
NOT TO SCALE




## 19 CURBED PENETRATION
NOT TO SCALE




## 18 NOT USED
NOT TO SCALE

## 17 NOT USED
NOT TO SCALE

## 16 MEMBRANE LAP
NOT TO SCALE

## 15 HOT STACK
NOT TO SCALE

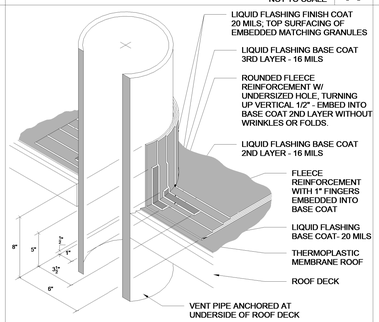
## 14 EQUIPMENT CURB
NOT TO SCALE

## 13 WALK PADS
NOT TO SCALE

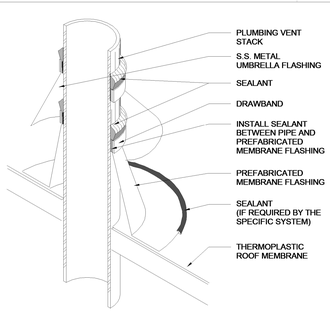



## 12 NOT USED
NOT TO SCALE

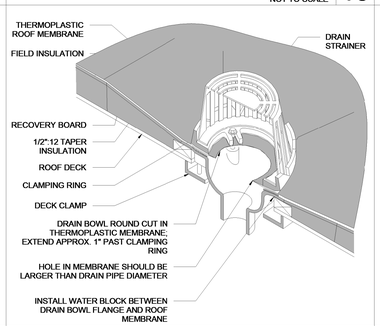
## 11 LIQUID FLASHING
NOT TO SCALE



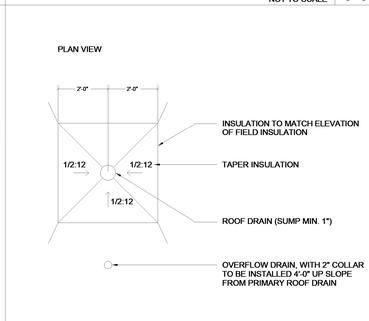

## 10 PLUMBING STACK
NOT TO SCALE



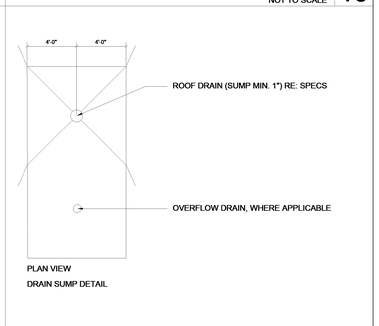

## 9 ROOF DRAIN
NOT TO SCALE



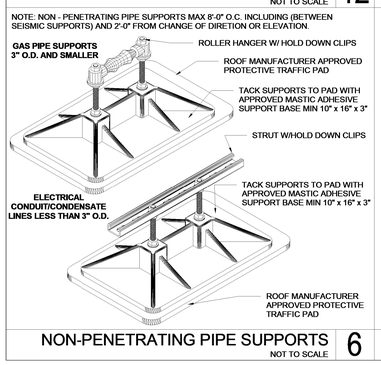

## 8 ROOF DRAIN SUMP
NOT TO SCALE




## 7 OVERFLOW
NOT TO SCALE



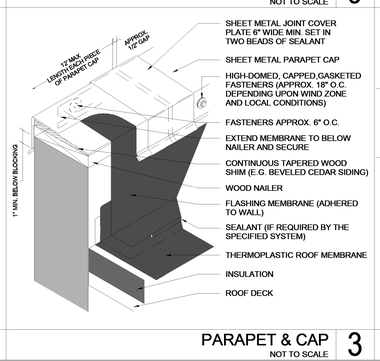

## 6 NON-PENETRATING PIPE SUPPORTS
NOT TO SCALE



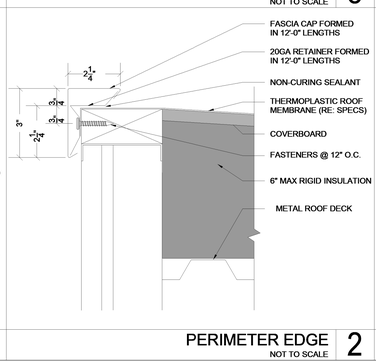

## 5 NOT USED
NOT TO SCALE

## 4 NOT USED
NOT TO SCALE

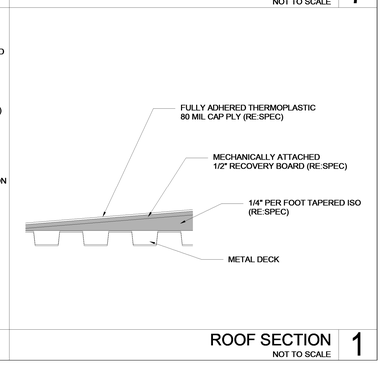
## 3 PARAPET & CAP
NOT TO SCALE




## 2 PERIMETER EDGE
NOT TO SCALE




## 1 ROOF SECTION
NOT TO SCALE

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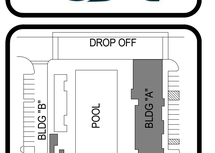
**CENTENNIAL HIGH SCHOOL AQUATICS CENTER**

PROJECT ADDRESS:
1820 RIMPAU AVE.
CORONA, CA 92881

CONSTRUCTION DOCUMENTS
FILE #: 33-H4 DSA APPLICATION #: 04-122208

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| 5/5/2023 | 220306 |

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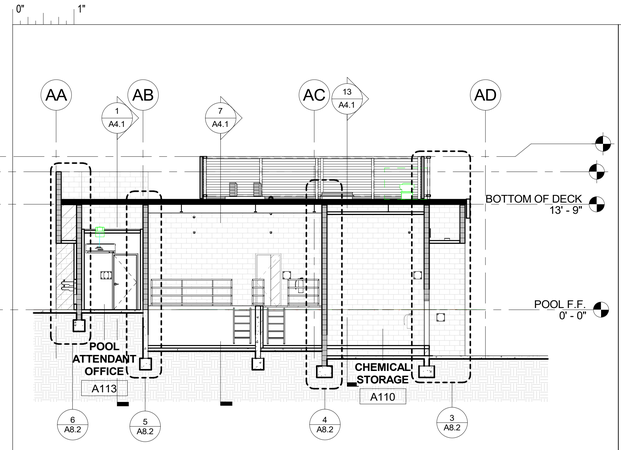
CONSTRUCTION DOCUMENTS

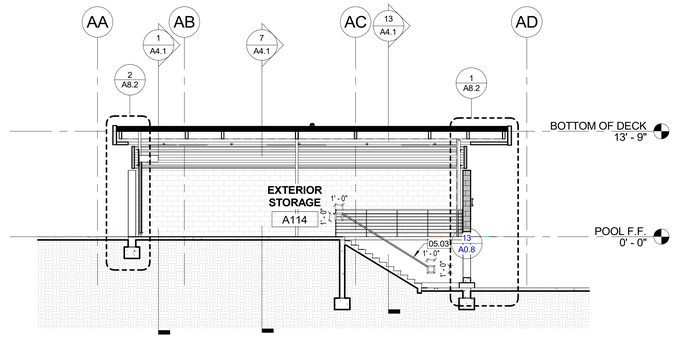
**ROOF DETAILS**

**A3.2**

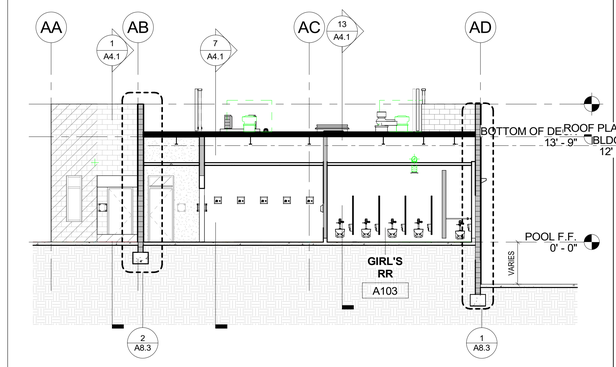
A4.1 - SECTIONS - BLDG A



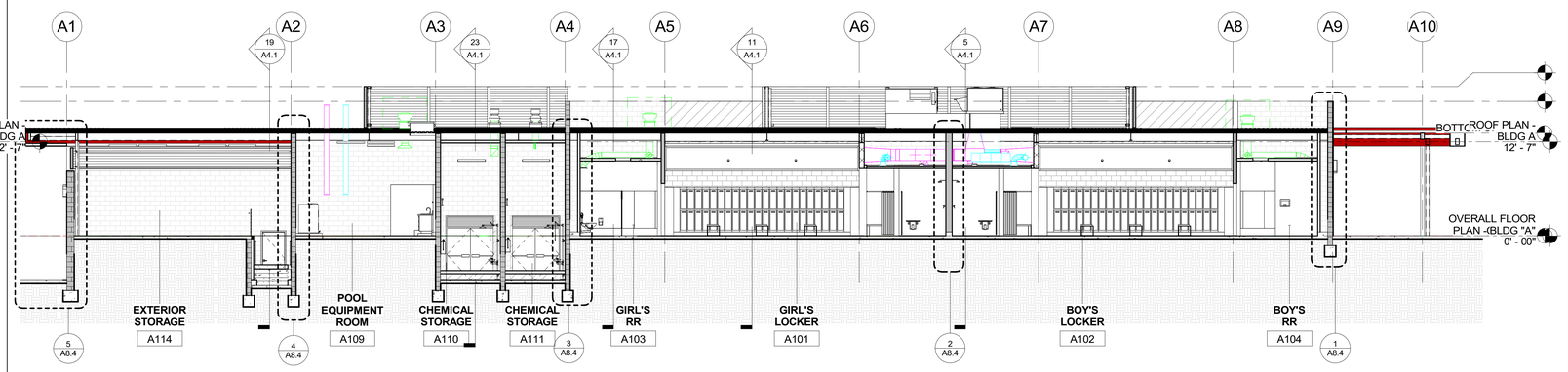

BLDG "A" - NORTH SECTION 4 **23**
1/8" = 1'-0"



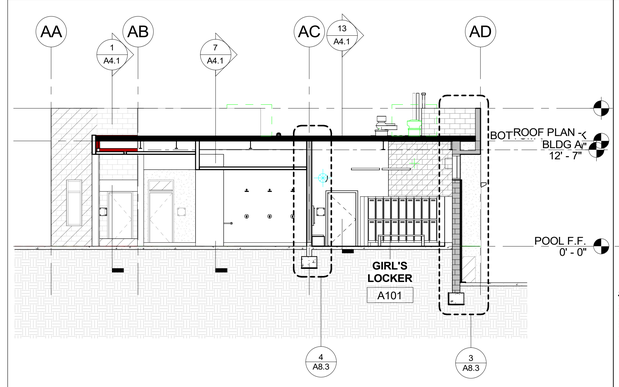

BLDG "A" - NORTH SECTION 5 **19**
1/8" = 1'-0"



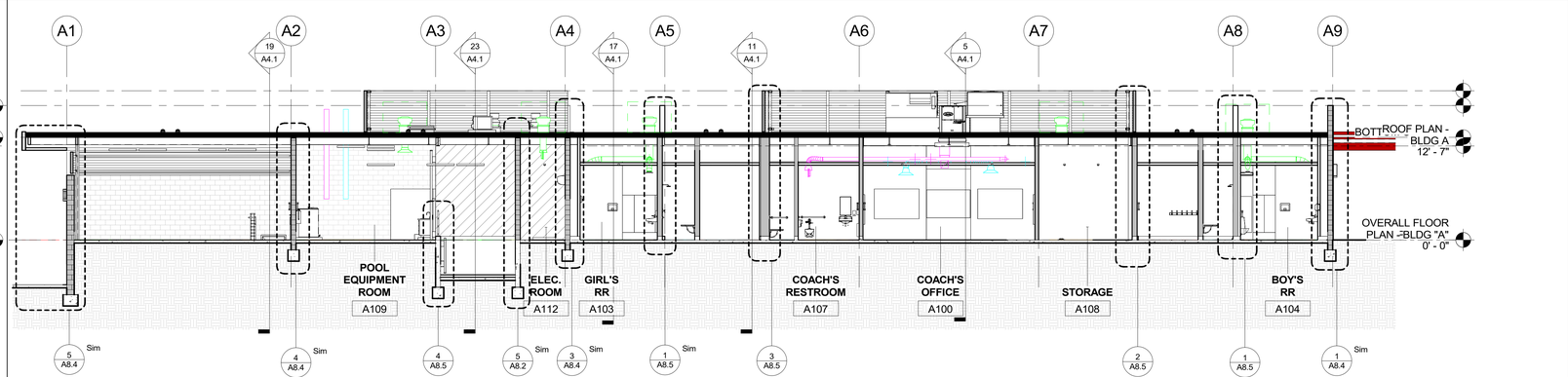

BLDG "A" - NORTH SECTION 3 **17**
1/8" = 1'-0"




BLDG "A" - EAST SECTION 3 **13**
1/8" = 1'-0"




BLDG "A" - NORTH SECTION 1 **5**
1/8" = 1'-0"




BLDG "A" - EAST SECTION 1 **1**
1/8" = 1'-0"




BLDG "A" - EAST SECTION 2 **7**
1/8" = 1'-0"

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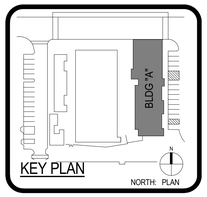
# CENTENNIAL HIGH SCHOOL AQUATICS CENTER

PROJECT ADDRESS:
1820 RIMPAU AVE
CORONA, CA 92881

CONSTRUCTION DOCUMENTS
FILE #: 33-H4 DSA APPLICATION #: 04-122208




Consultant

Architect

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David T. Blair
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REN 11-30-202x
STATE OF CALIFORNIA

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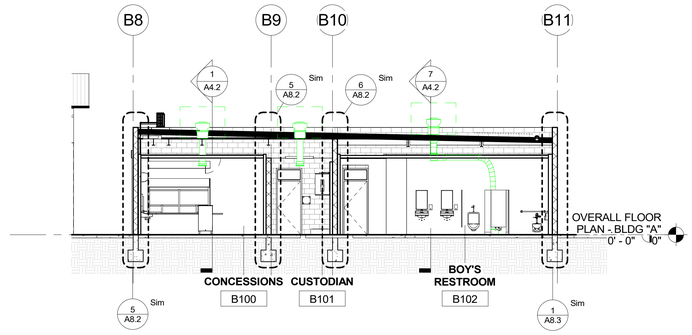
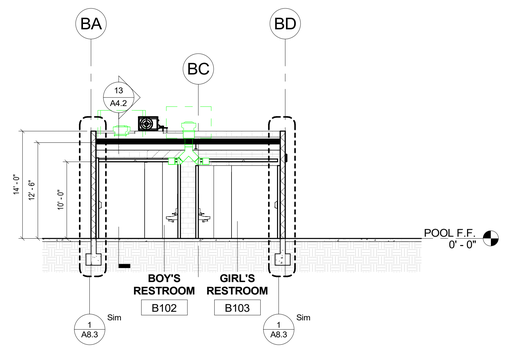
CONSTRUCTION DOCUMENTS

## SECTIONS - BLDG A

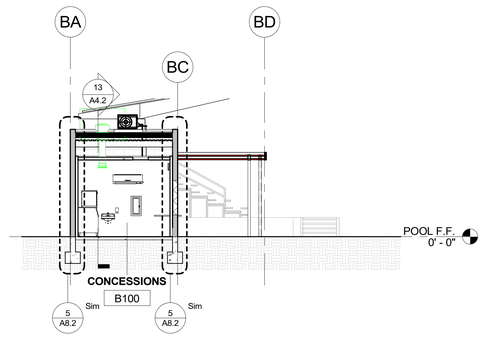
# A4.1




BLDG "B" - SECTION 3 **13**
1/8" = 1'-0"




BLDG "B" - SECTION 2 **7**
1/8" = 1'-0"




BLDG "B" - SECTION 1 **1**
1/8" = 1'-0"

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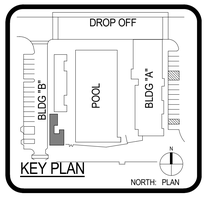
# CENTENNIAL HIGH SCHOOL AQUATICS CENTER

**PROJECT ADDRESS:**
1820 RIMPAU AVE.
CORONA, CA 92881

**CONSTRUCTION DOCUMENTS**
FILE #: **33-H4** DSA APPLICATION #: **04-122208**




Consultant

Architect

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CNUSD

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**CONSTRUCTION DOCUMENTS**

## SECTIONS - BLDG B

# A4.2

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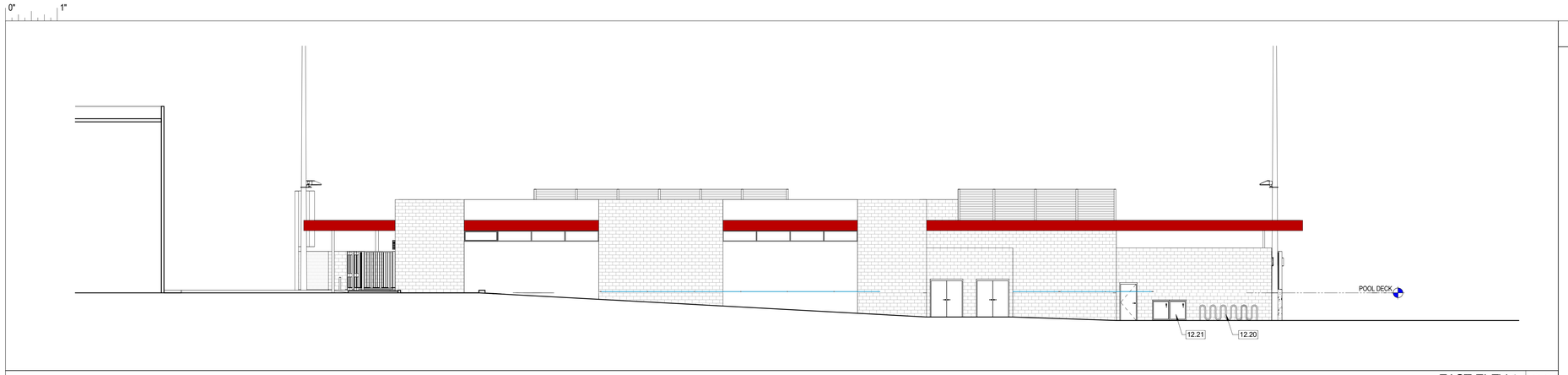
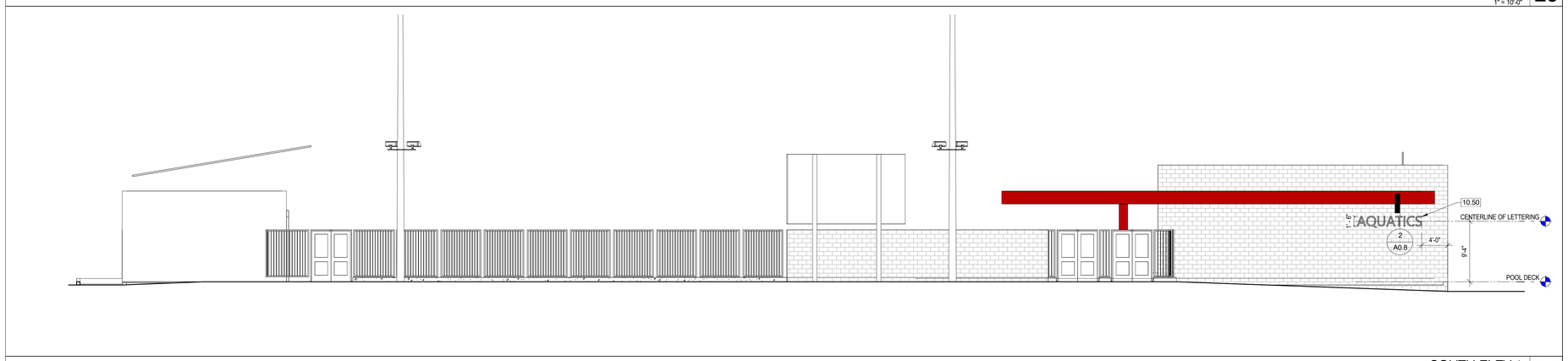
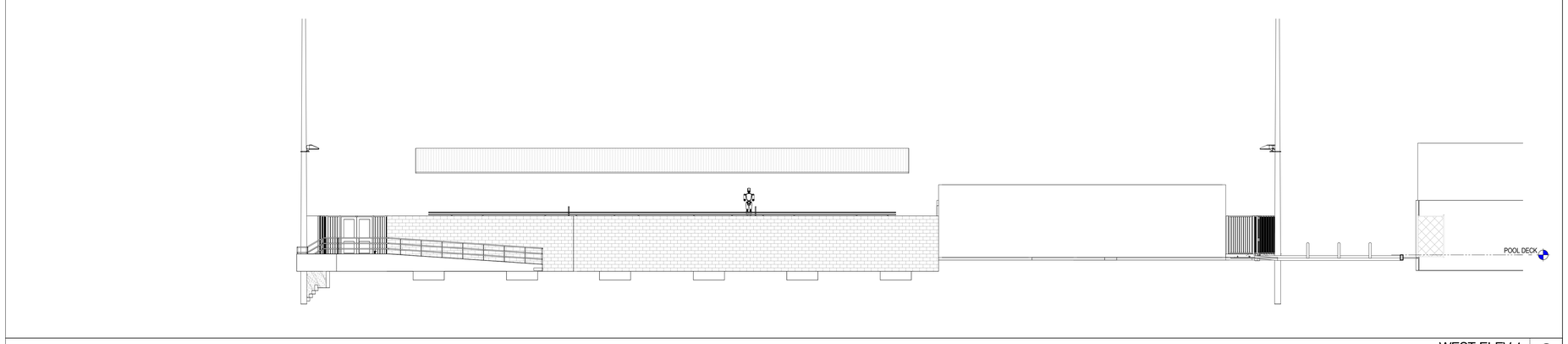
A5.1 - EXTERIOR ELEV. - SITE



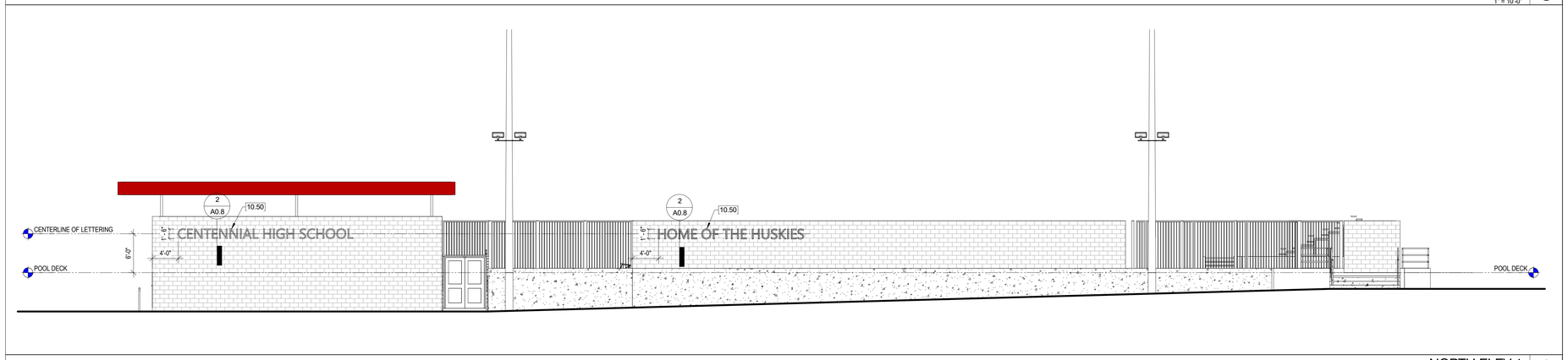

EAST ELEV.1 **20**
1" = 10'-0"




SOUTH ELEV.1 **14**
1/8" = 1'-0"




WEST ELEV.1 **8**
1" = 10'-0"




NORTH ELEV.1 **2**
1/8" = 1'-0"

## CONSTRUCTION KEYED NOTES

| # | Description |
|---|---|
| 10.50 | DIMENSIOINAL LETTERING, RE: SPECS |
| 12.20 | MULTI-BIKE RACK PER SPEC |
| 12.21 | SINGLE BIKE LOCKER PER SPEC |

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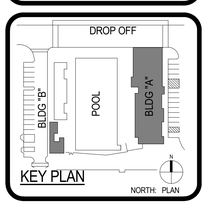
# CENTENNIAL HIGH SCHOOL AQUATICS CENTER

PROJECT ADDRESS:
1820 RIMPAU AVE,
CORONA, CA 92881

CONSTRUCTION DOCUMENTS
FILE #: 33-H4 DSA APPLICATION #: 04-122208

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CONSTRUCTION DOCUMENTS

## EXTERIOR ELEV. - SITE

A5.1

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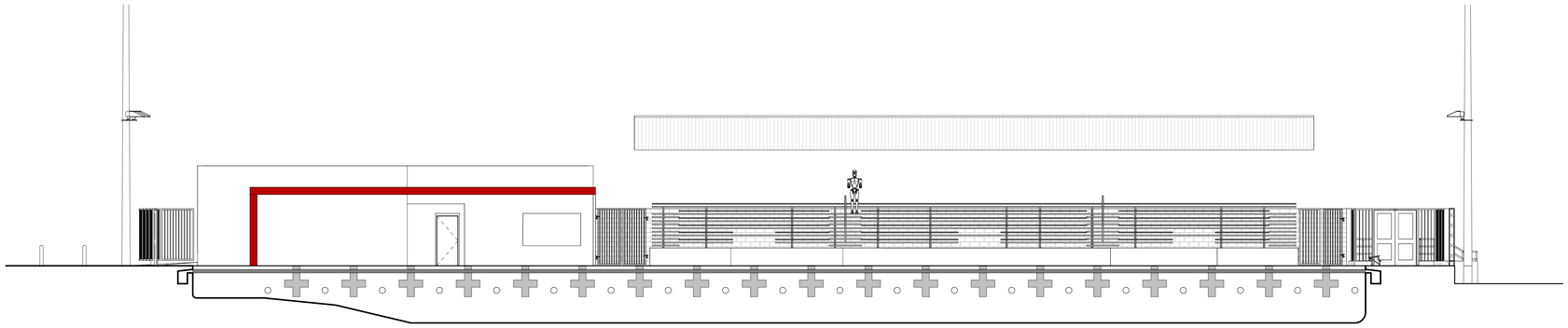
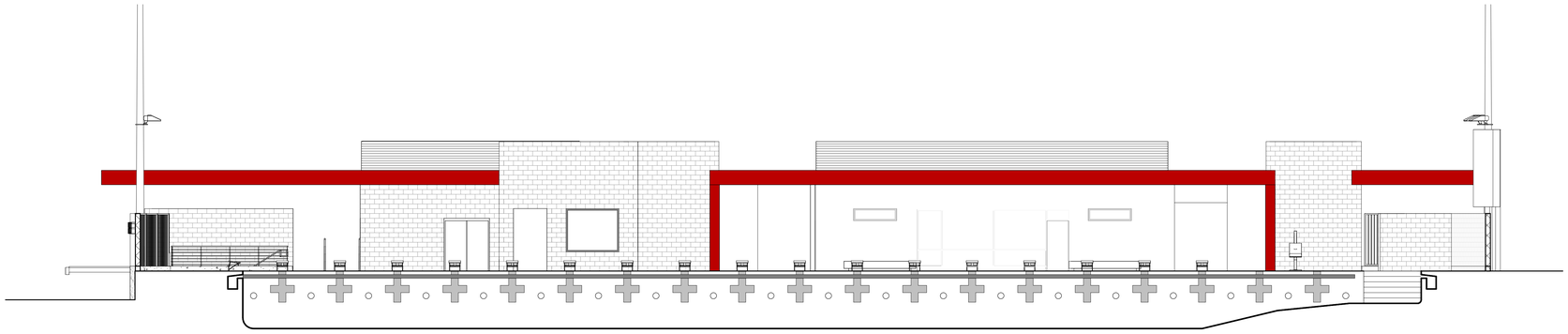
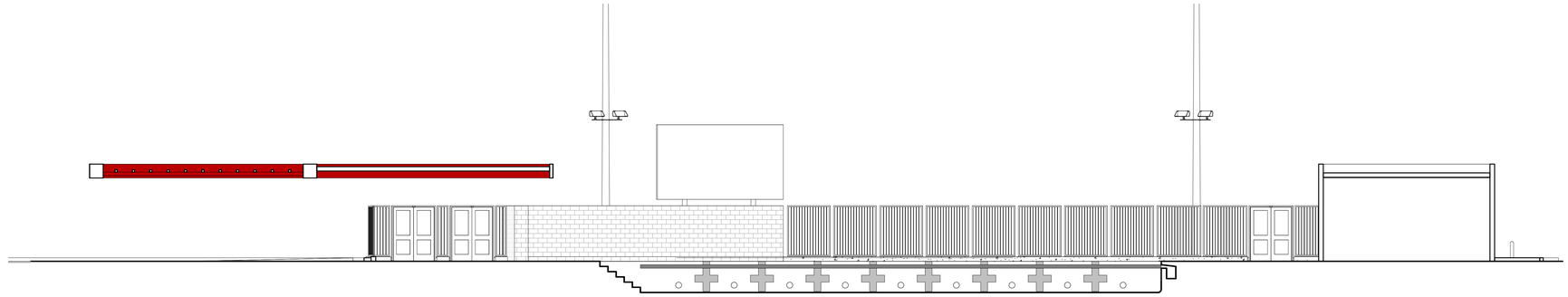
A5.2 - EXTERIOR POOL DECK ELEV.



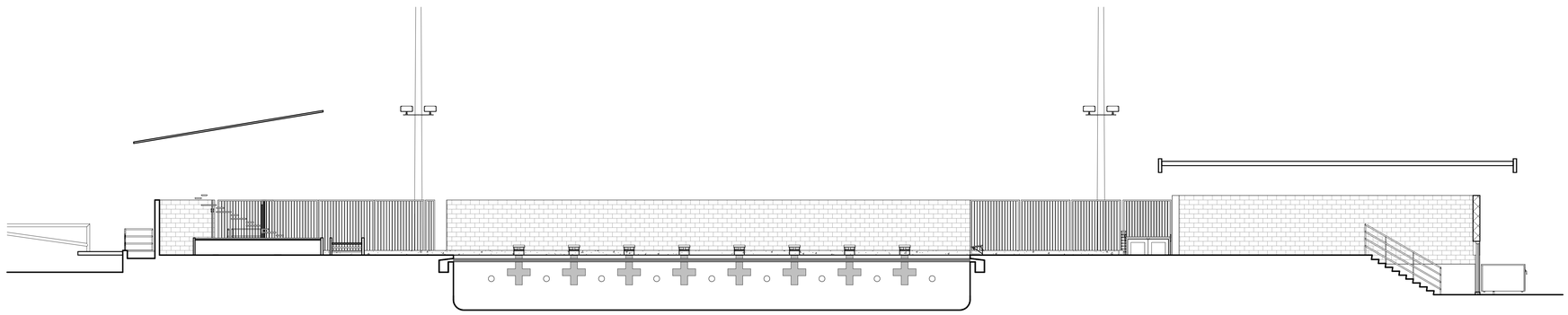
POOL DECK - LOOKING WEST 20
1/8" = 1'-0"



POOL DECK - LOOKING EAST 14
1/8" = 1'-0"



POOL DECK - LOOKING SOUTH 8
1/8" = 1'-0"



POOL DECK - LOOKING NORTH 2
1/8" = 1'-0"

## CONSTRUCTION KEYED NOTES

| # | Description |
|---|---|

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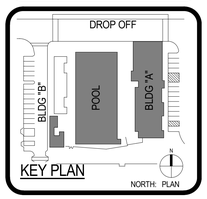
# CENTENNIAL HIGH SCHOOL AQUATICS CENTER

PROJECT ADDRESS:
1820 RIMPAU AVE,
CORONA, CA 92881

CONSTRUCTION DOCUMENTS
FILE #: 33-H4 DSA APPLICATION #: 04-122208

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CONSTRUCTION DOCUMENTS

## EXTERIOR POOL DECK ELEV.

A5.2

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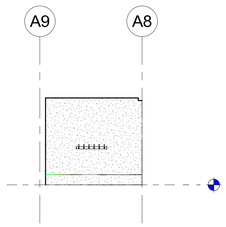
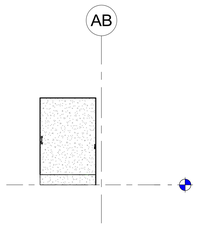
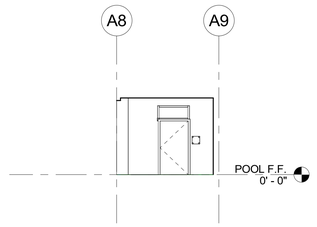



Elevation 2 - c 1/8" = 1'-0" **22**



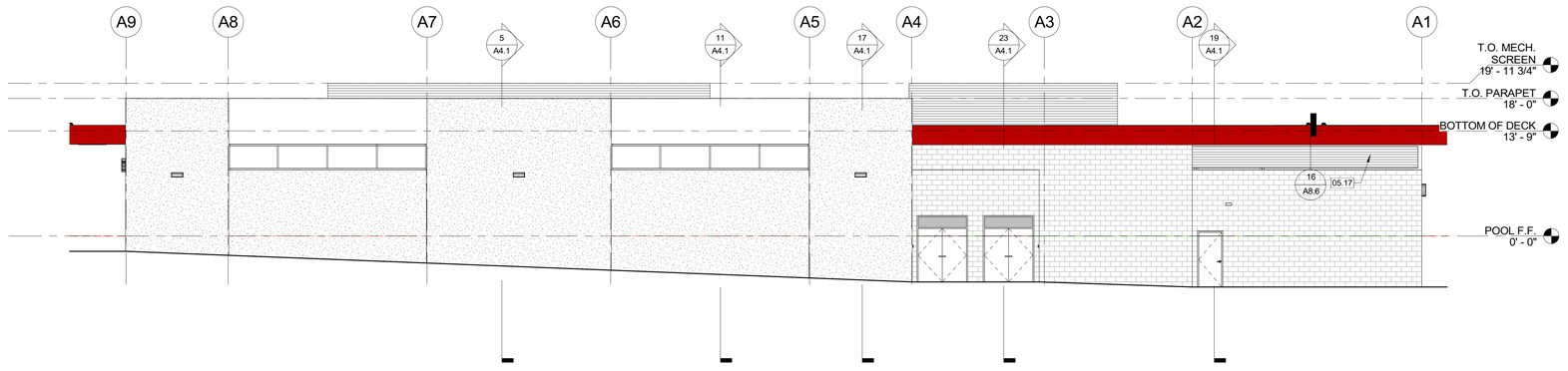

Elevation 2 - b 1/8" = 1'-0" **21**




Elevation 2 - a 1/8" = 1'-0" **20**

## CONSTRUCTION KEYED NOTES

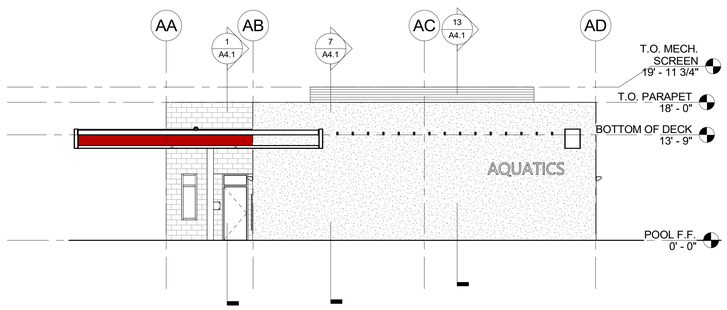
| # | Description |
|---|---|
| 05.17 | |
| 10.18 | POOL SIGNAGE, RE: AQ DWGS. |



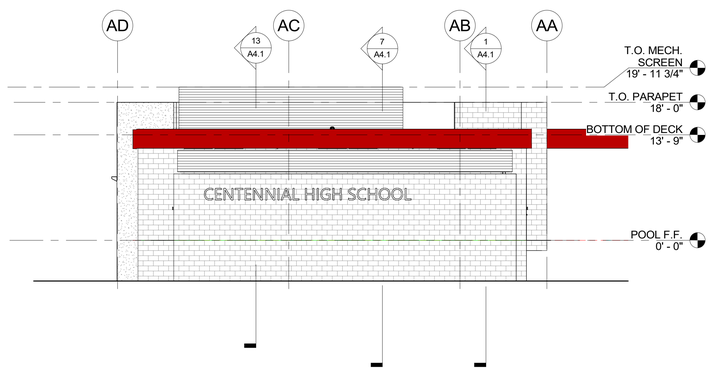

BLDG "A" EAST ELEV. 1/8" = 1'-0" **14**

## EXTERIOR ELEVATION LEGEND

- A — TYPE 'A':
- B — TYPE 'B':
- C — TYPE 'C':
- D — TYPE 'D':
- E — TYPE 'E':



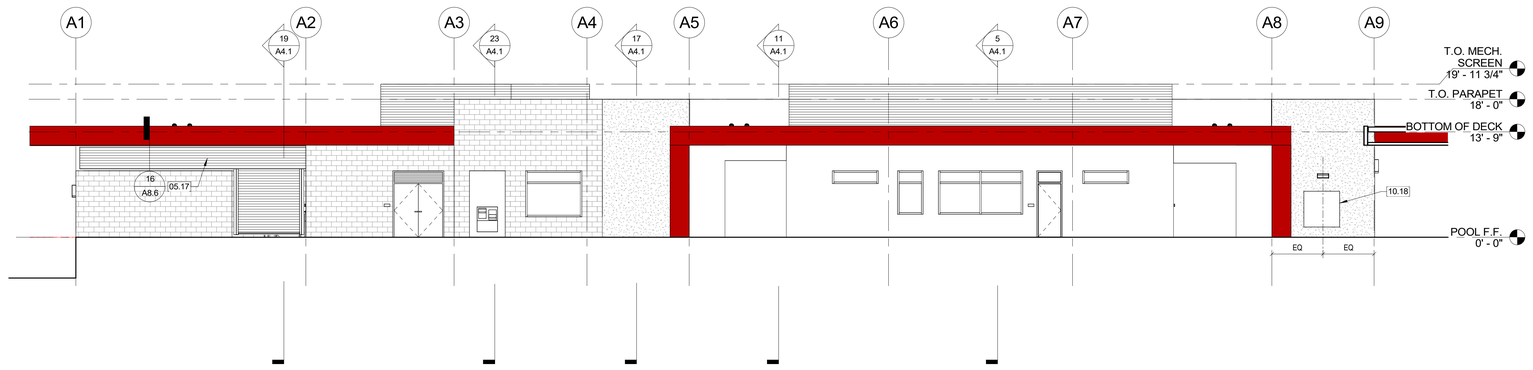

BLDG "A" SOUTH ELEV. 1/8" = 1'-0" **10**




BLDG "A" NORTH ELEV. 1/8" = 1'-0" **8**

## EXTERIOR ELEV. GENERAL NOTES

1. REFER TO SHEET **G0.1** FOR TYPICAL SYMBOLS AND ABBREVIATIONS.
2. REFER TO DOOR AND WINDOW SCHEDULES **A9.1** FOR LOCATIONS, DIMENSIONS AND CONFIGURATIONS.
3. WHERE WALL ELEVATION IS NOT SHOWN, MATCH ADJACENT FINISH, COLOR, JOINT LOCATIONS, ETC. OR VERIFY WITH ARCHITECT.
4. REFER TO SHEET **A8.1** FOR PARTITION TYPE & FINISH DETAILS
5. REFER TO SHEET **A9.1** FOR GLAZING TYPE & LOCATIONS




BLDG "A" WEST ELEV. 1/8" = 1'-0" **2**

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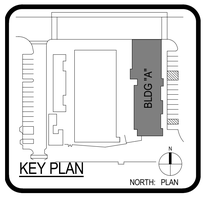
# CENTENNIAL HIGH SCHOOL AQUATICS CENTER

PROJECT ADDRESS:
1820 RIMPAU AVE.
CORONA, CA 92881

CONSTRUCTION DOCUMENTS
FILE #: 33-H4 DSA APPLICATION #: 04-122208




KEY PLAN
NORTH: PLAN

Consultant

Architect

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CONSTRUCTION DOCUMENTS

## EXTERIOR ELEV. - BLDG A

# A5.3

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A5.4 - EXTERIOR ELEV. - BLDG A

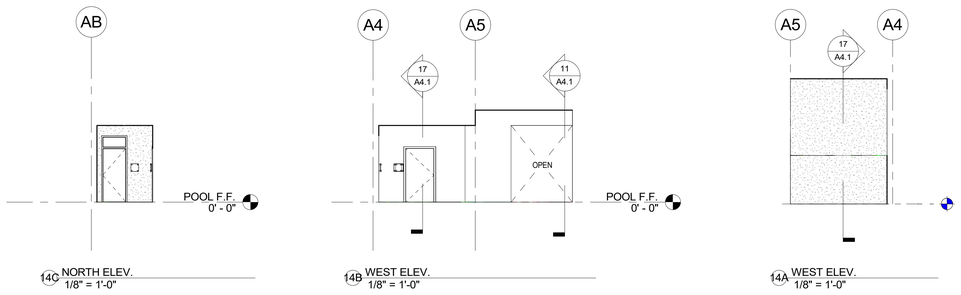
0" 1"

## CONSTRUCTION KEYED NOTES

| # | Description |
|---|---|

## EXTERIOR ELEVATION LEGEND

- A — TYPE 'A':
- B — TYPE 'B':
- C — TYPE 'C':
- D — TYPE 'D':
- E — TYPE 'E':




14C NORTH ELEV. 1/8" = 1'-0"

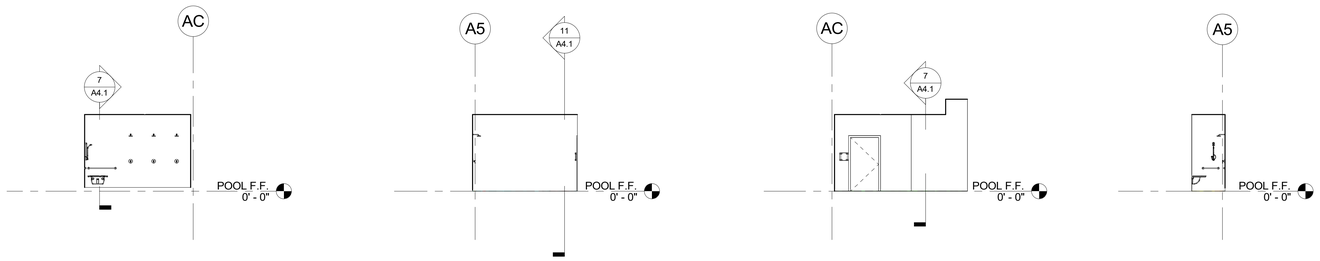
14B WEST ELEV. 1/8" = 1'-0"

14A WEST ELEV. 1/8" = 1'-0"

GIRL'S RESTROOM ELCOVE - EXT. ELEVATIONS 1/4" = 1'-0" **14**

## EXTERIOR ELEV. GENERAL NOTES

1. REFER TO SHEET **G0.1** FOR TYPICAL SYMBOLS AND ABBREVIATIONS.
2. REFER TO DOOR AND WINDOW SCHEDULES **A9.1** FOR LOCATIONS, DIMENSIONS AND CONFIGURATIONS.
3. WHERE WALL ELEVATION IS NOT SHOWN, MATCH ADJACENT FINISH, COLOR, JOINT LOCATIONS, ETC. OR VERIFY WITH ARCHITECT.
4. REFER TO SHEET **A8.1** FOR PARTITION TYPE & FINISH DETAILS
5. REFER TO SHEET **A9.1** FOR GLAZING TYPE & LOCATIONS



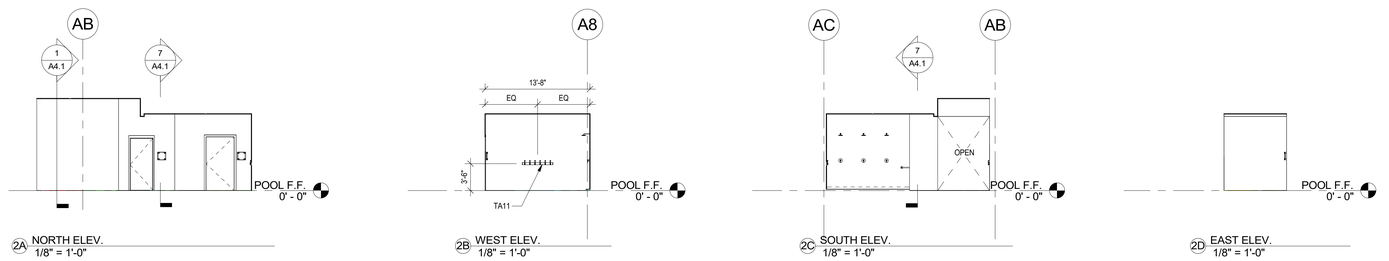

8A NORTH ELEV. 1/8" = 1'-0"

8B WEST ELEV. 1/8" = 1'-0"

8C SOUTH ELEV. 1/8" = 1'-0"

8D EAST ELEV. 1/8" = 1'-0"

GIRL'S EXTERIOR SHOWER -EXT. ELEVATIONS 1/4" = 1'-0" **8**




2A NORTH ELEV. 1/8" = 1'-0"

2B WEST ELEV. 1/8" = 1'-0"

2C SOUTH ELEV. 1/8" = 1'-0"

2D EAST ELEV. 1/8" = 1'-0"

BOY'S EXTERIOR SHOWER - EXT. ELEVATIONS 1/4" = 1'-0" **2**

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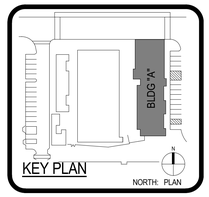
**CENTENNIAL HIGH SCHOOL AQUATICS CENTER**

**PROJECT ADDRESS:**
1820 RIMPAU AVE.
CORONA, CA 92881

**CONSTRUCTION DOCUMENTS**
FILE #: **33-H4** DSA APPLICATION #: **04-122208**




KEY PLAN
NORTH: PLAN

Consultant

Architect

LICENSED ARCHITECT
David T. Blain
No. C-36451
SEN. 11-30-2024
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**CONSTRUCTION DOCUMENTS**

**EXTERIOR ELEV. - BLDG A**

**A5.4**

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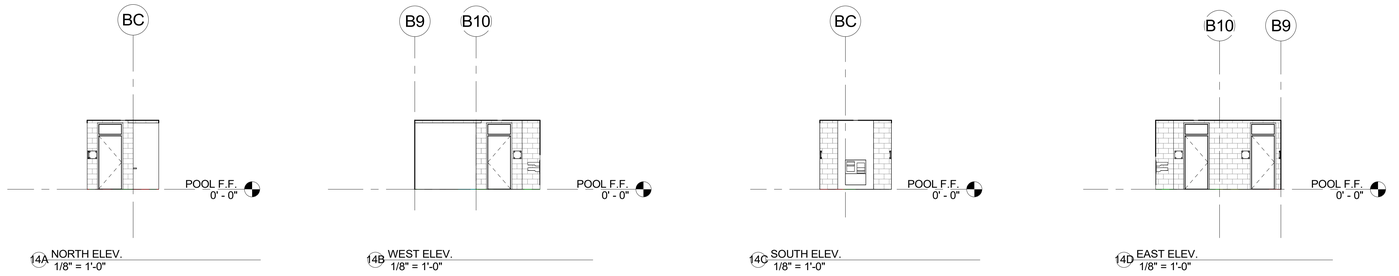
A5.5 - EXTERIOR ELEV. - BLDG B

## CONSTRUCTION KEYED NOTES

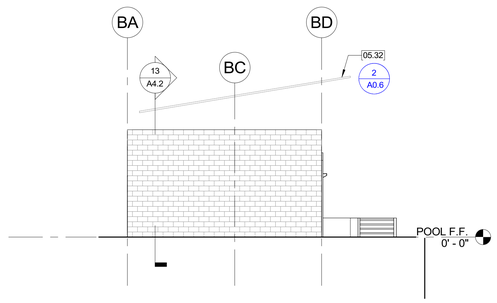
| # | Description |
|---|---|
| 05.32 | SHADE CANOPY BEYOND |

## EXTERIOR ELEVATION LEGEND

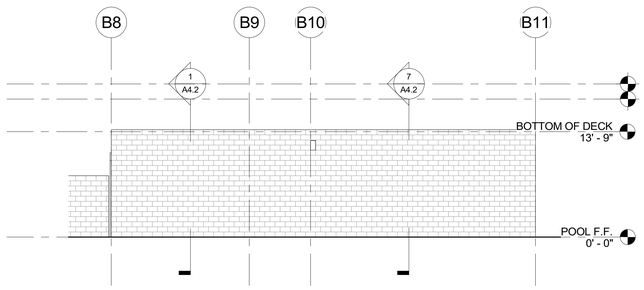
- A — TYPE 'A':
- B — TYPE 'B':
- C — TYPE 'C':
- D — TYPE 'D':
- E — TYPE 'E':



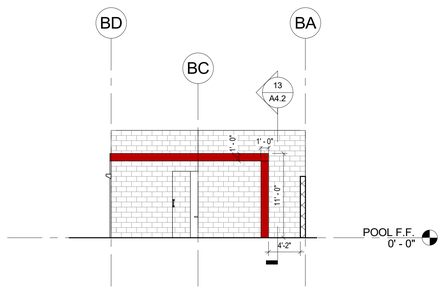

GIRL'S RESTROOM ELCOVE - EXT. ELEVATIONS 1/4" = 1'-0" **14**



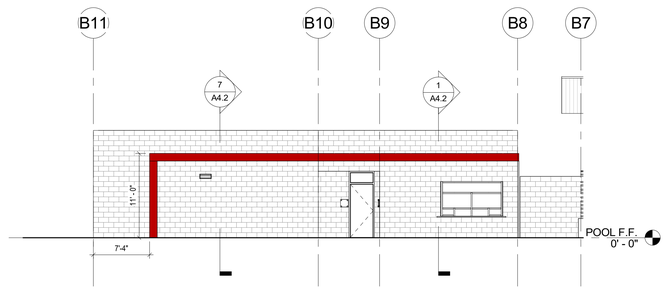

BLDG "B" - SOUTH ELEV. 1/8" = 1'-0" **11**




BLDG "B" - WEST ELEV. 1/8" = 1'-0" **8**




BLDG "B" - NORTH ELEV. 1/8" = 1'-0" **5**




BLDG "B" - EAST ELEV. 1/8" = 1'-0" **2**

## EXTERIOR ELEV. GENERAL NOTES

1. REFER TO SHEET **G0.1** FOR TYPICAL SYMBOLS AND ABBREVIATIONS.
2. REFER TO DOOR AND WINDOW SCHEDULES **A9.1** FOR LOCATIONS, DIMENSIONS AND CONFIGURATIONS.
3. WHERE WALL ELEVATION IS NOT SHOWN, MATCH ADJACENT FINISH, COLOR, JOINT LOCATIONS, ETC. OR VERIFY WITH ARCHITECT.
4. REFER TO SHEET **A8.1** FOR PARTITION TYPE & FINISH DETAILS
5. REFER TO SHEET **A9.1** FOR GLAZING TYPE & LOCATIONS

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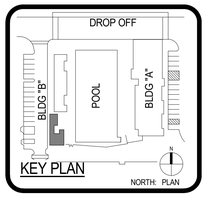
**CENTENNIAL HIGH SCHOOL AQUATICS CENTER**

**PROJECT ADDRESS:**
1820 RIMPAU AVE.
CORONA, CA 92881

**CONSTRUCTION DOCUMENTS**
FILE #: **33-H4** DSA APPLICATION #: **04-122208**




Consultant

Architect

LICENSED ARCHITECT
David T. Blain
No. C-26451
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STATE OF CALIFORNIA
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CNUSD

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**CONSTRUCTION DOCUMENTS**

**EXTERIOR ELEV. - BLDG B**

**A5.5**

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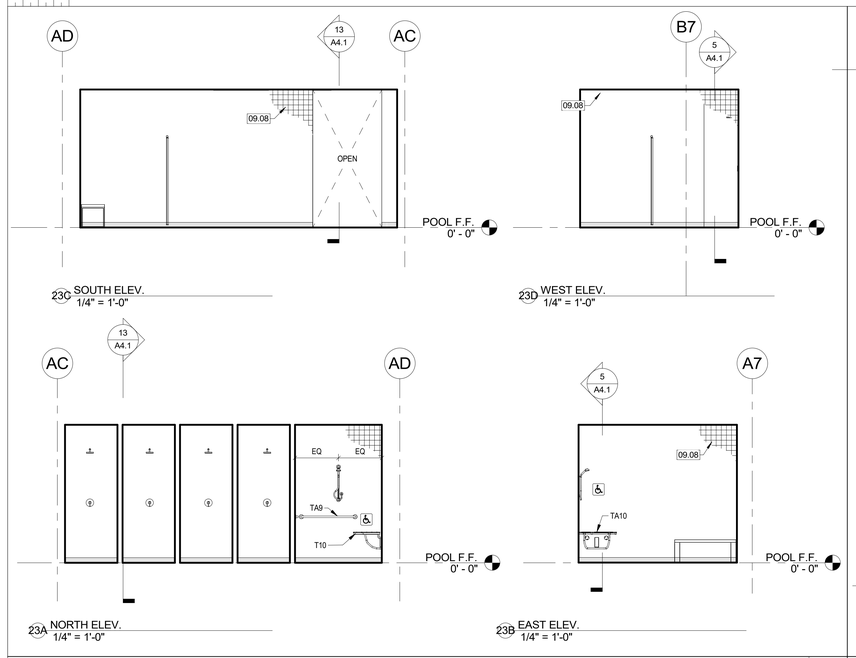
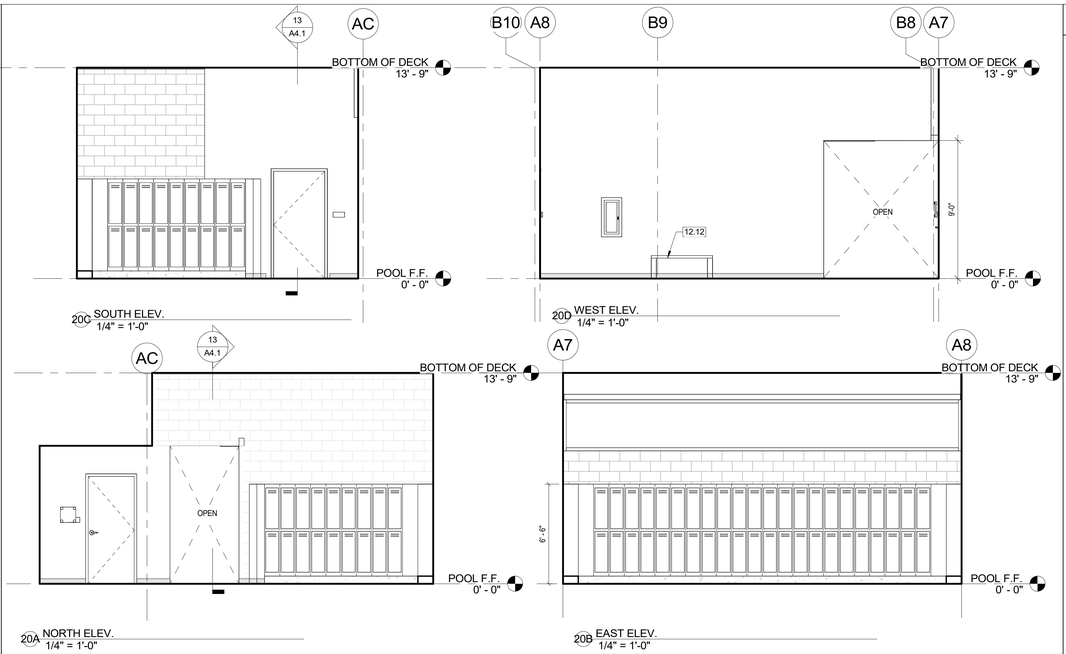
A6.1 - ENLARGED BLDG "A" FLOOR PLAN - BOY'S RESTROOM & LOCKERS




BOY'S SHOWERS A106 - INT ELEVATIONS 1/4" = 1'-0" **23**




BOY'S LOCKER ROOM A102 - INT ELEVATIONS 1/4" = 1'-0" **20**

## CONSTRUCTION KEYED NOTES

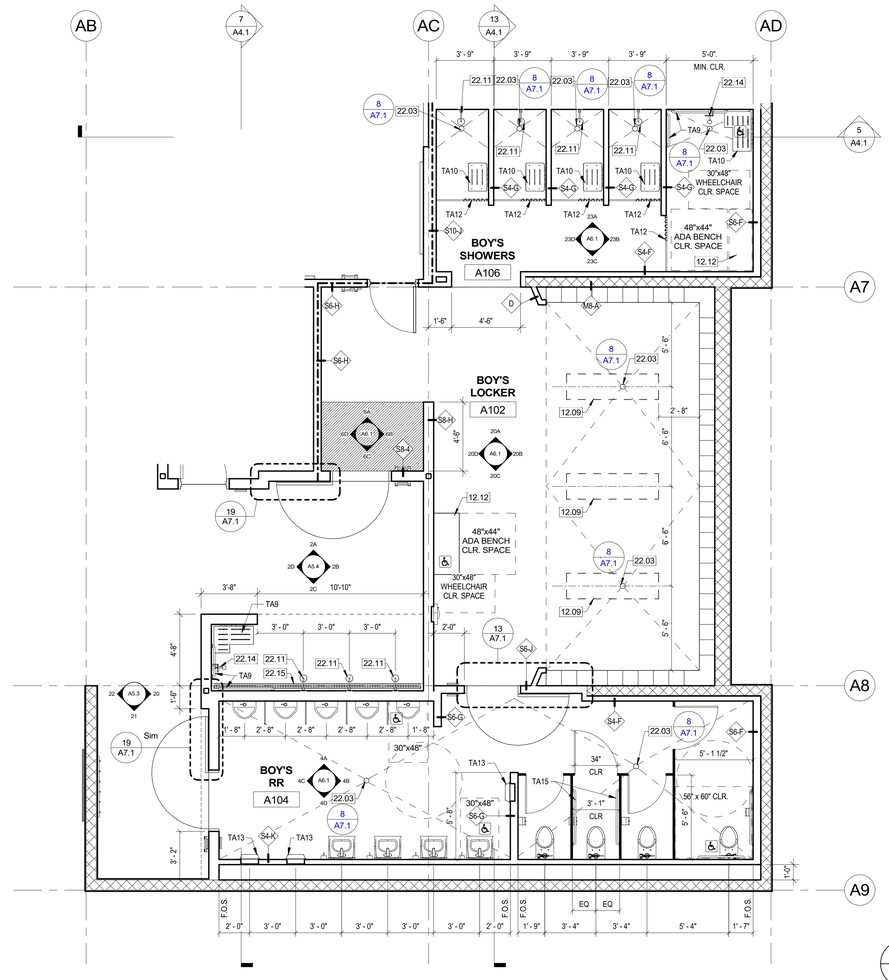
| # | Description |
|---|---|
| 09.08 | CERAMIC TILE WAINSCOT |
| 12.09 | NON-ACCESSIBLE LOCKER BENCH |
| 12.12 | ACCESSIBLE LOCKER BENCH |
| 22.03 | FLOOR DRAIN RE: PLUMB |
| 22.04 | WALL MOUNTED WATER CLOSET, RE: PLUMB |
| 22.05 | LAVATORY, RE: PLUMB |
| 22.07 | ACCESSIBLE WALL MOUNTED WATER CLOSET, RE: PLUMB |
| 22.08 | WALL MOUNTED URINAL, RE: PLUMB |
| 22.09 | ACCESSIBLE WALL MOUNTED URINAL, RE: PLUMB |
| 22.11 | SHOWER AND CONTROL VALVE, RE: PLUMB |
| 22.13 | ACCESSIBLE WALL MOUNTED LAVATORY, RE: PLUMB |
| 22.14 | ACCESSIBLE SHOWER AND CONTROL VALVE, RE: PLUMB |
| 22.15 | TRENCH DRAIN, RE: PLUMB |




BOY'S CORRIDOR - INT ELEVATIONS 1/4" = 1'-0" **6**




BOY'S RESTROOM A104 - INT ELEVATIONS 1/4" = 1'-0" **4**




**NOTE**: ALL DIMENSIONS ARE TO FACE OF STUD AND/ OR FACE OF MASONRY U.N.O.

ENLARGED BLDG "A" FLOOR PLAN - BOY'S RESTROOM & LOCKERS 1/4" = 1'-0" **1**

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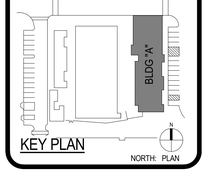
# CENTENNIAL HIGH SCHOOL AQUATICS CENTER

**PROJECT ADDRESS:**
1820 RIMPAU AVE.
CORONA, CA 92881

**CONSTRUCTION DOCUMENTS** DSA APPLICATION #: **04-122208**
FILE #: **33-H4**




Consultant

Architect

LICENSED ARCHITECT
David T. Blain
No. C-28454
REN. 11-30-2024
STATE OF CALIFORNIA

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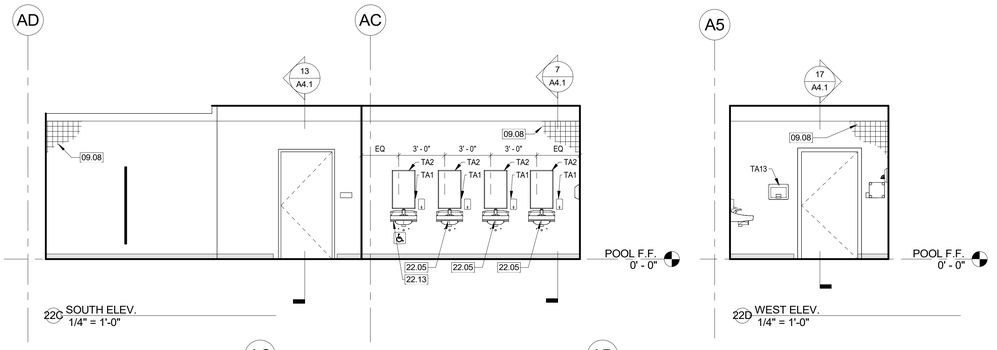
**CONSTRUCTION DOCUMENTS**

## ENLARGED BLDG "A" FLOOR PLAN - BOY'S RESTROOM & LOCKERS

**A6.1**

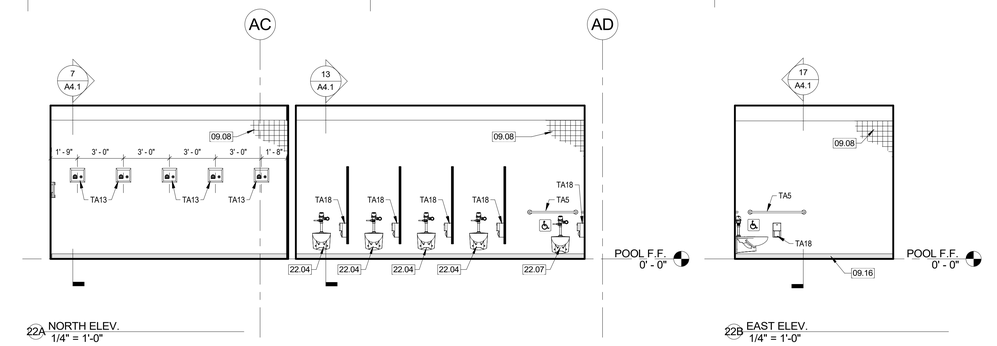
A6.2 - ENLARGED BLDG "A" FLOOR PLAN - GIRL'S LOCKERS/RESTROOMS

0" 1"




22C SOUTH ELEV. 1/4" = 1'-0"

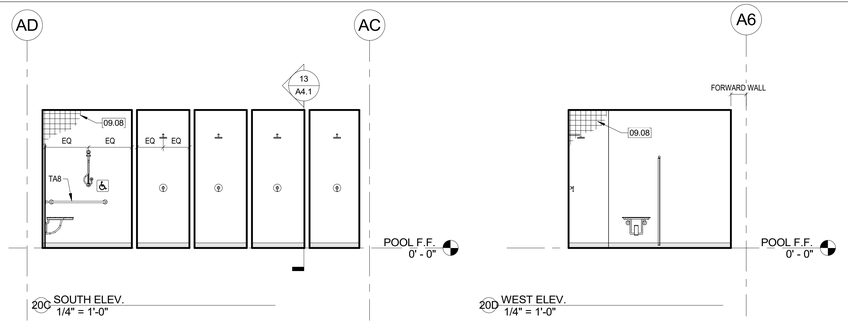
22D WEST ELEV. 1/4" = 1'-0"




22A NORTH ELEV. 1/4" = 1'-0"

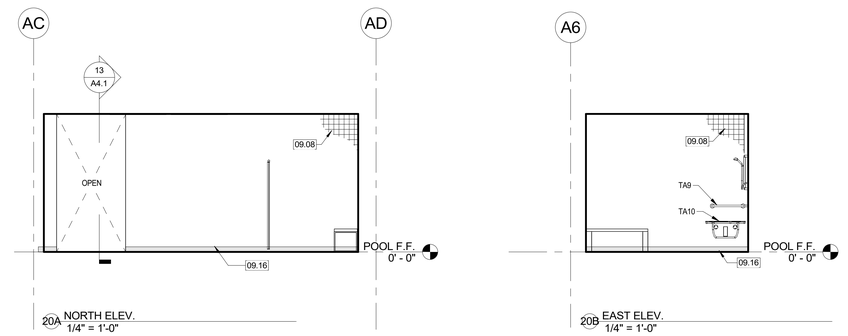
22B EAST ELEV. 1/4" = 1'-0"

GIRL'S RESTROOM A103 - INT. ELEVATIONS 1/4" = 1'-0" **22**




20C SOUTH ELEV. 1/4" = 1'-0"

20D WEST ELEV. 1/4" = 1'-0"




20A NORTH ELEV. 1/4" = 1'-0"

20B EAST ELEV. 1/4" = 1'-0"

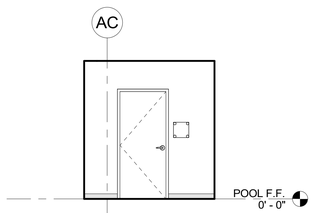
GIRL'S LOCKER ROOM - INT ELEVATIONS 1/4" = 1'-0" **20**

## CONSTRUCTION KEYED NOTES

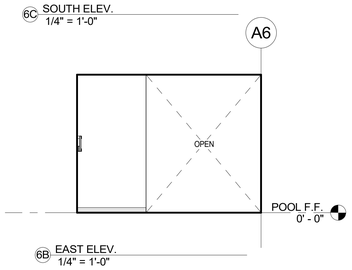
| # | Description |
|---|---|
| 09.08 | CERAMIC TILE WAINSCOT |
| 09.16 | WALL BASE, SEE FINISH FLOOR & FINISH SCHEDULES |
| 12.09 | NON-ACCESSIBLE LOCKER BENCH |
| 12.12 | ACCESSIBLE LOCKER BENCH |
| 22.03 | FLOOR DRAIN RE: PLUMB |
| 22.04 | WALL MOUNTED WATER CLOSET, RE: PLUMB |
| 22.05 | LAVATORY, RE: PLUMB |
| 22.07 | ACCESSIBLE WALL MOUNTED WATER CLOSET, RE: PLUMB |
| 22.11 | SHOWER AND CONTROL VALVE, RE: PLUMB |
| 22.13 | ACCESSIBLE WALL MOUNTED LAVATORY, RE: PLUMB |
| 22.14 | ACCESSIBLE SHOWER AND CONTROL VALVE, RE: PLUMB |




6D WEST ELEV. 1/4" = 1'-0"




6C SOUTH ELEV. 1/4" = 1'-0"

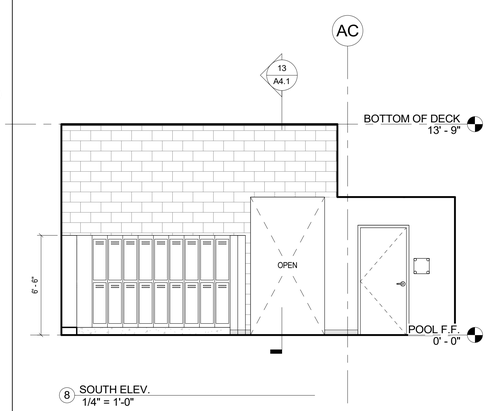



6B EAST ELEV. 1/4" = 1'-0"

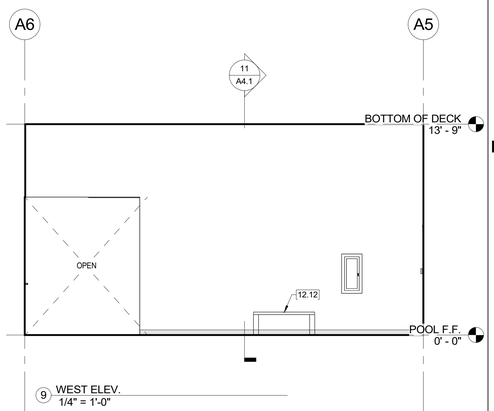



6A NORTH ELEV. 1/4" = 1'-0"

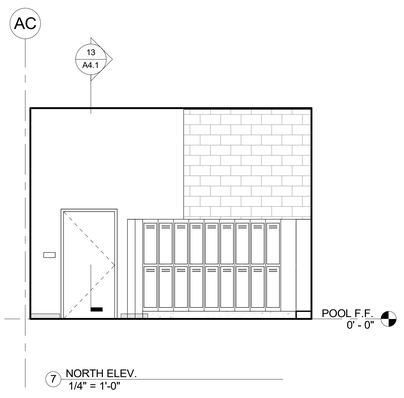
GIRL'S CORRIDOR - INT. ELEVATIONS 1/4" = 1'-0" **6**



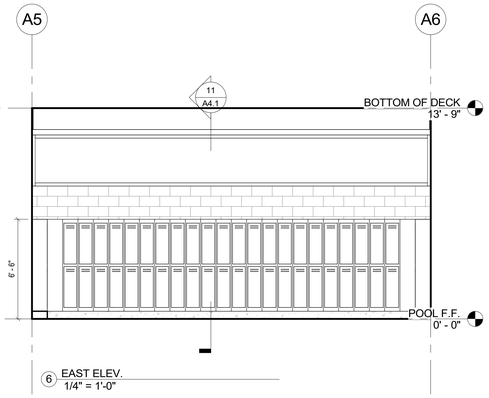

8 SOUTH ELEV. 1/4" = 1'-0"




9 WEST ELEV. 1/4" = 1'-0"




7 NORTH ELEV. 1/4" = 1'-0"




6 EAST ELEV. 1/4" = 1'-0"

GIRL'S LOCKER ROOM A101 - ENLARGED ELEVATIONS 1/4" = 1'-0" **3**




ENLARGED BLDG "A" FLOOR PLAN - GIRL'S LOCKERS/RESTROOMS 1/4" = 1'-0" **1**

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**CENTENNIAL HIGH SCHOOL AQUATICS CENTER**

**PROJECT ADDRESS:** 1820 RIMPAU AVE. CORONA, CA 92881

**CONSTRUCTION DOCUMENTS** DSA APPLICATION #: **04-122208**
FILE #: **33-H4**




Consultant

Architect
LICENSED ARCHITECT Gerrit T. Blain No. C-29454 Ex. 11-30-2024 STATE OF CALIFORNIA
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| 5/5/2023 | 220306 |

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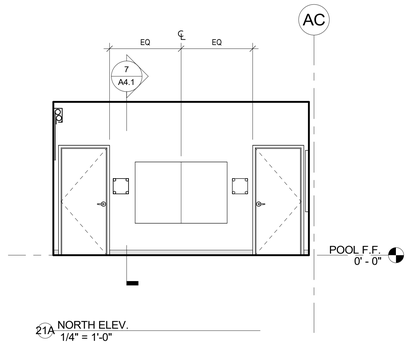
CONSTRUCTION DOCUMENTS

**ENLARGED BLDG "A" FLOOR PLAN - GIRL'S LOCKERS/RESTROOMS**

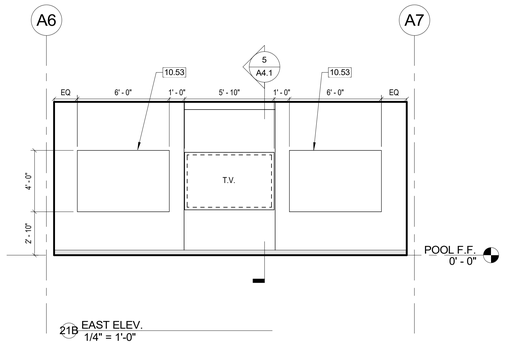
**A6.2**

A6.3 - ENLARGED BLDG "A" FLOOR PLAN - COACH'S & CUSTODIAN'S ROOM

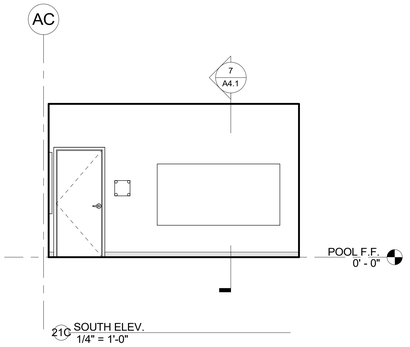
0" 1"



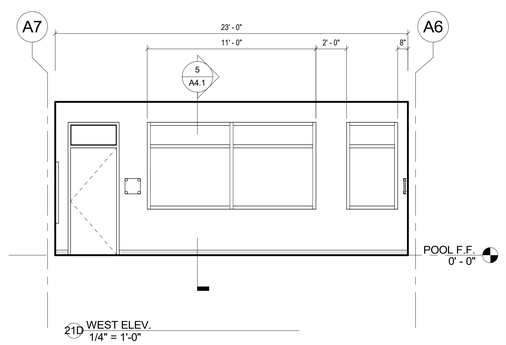

21A NORTH ELEV.
1/4" = 1'-0"




21B EAST ELEV.
1/4" = 1'-0"




21C SOUTH ELEV.
1/4" = 1'-0"

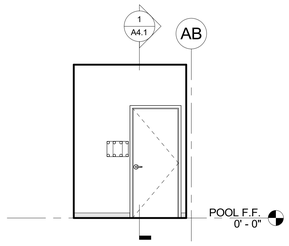



21D WEST ELEV.
1/4" = 1'-0"

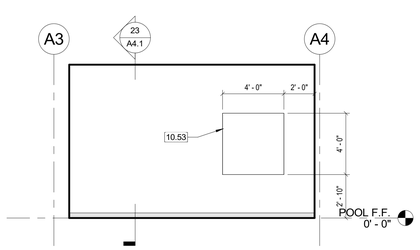
## CONSTRUCTION KEYED NOTES

| # | Description |
|---|---|
| 09.08 | CERAMIC TILE WAINSCOT |
| 10.53 | MARKERBOARD |
| 22.02 | ACCESSIBLE WALL MOUNTED HI-LO DRINKING FOUNTAIN W/BOTTLE FILLER, RE: PLUMB |
| 22.03 | FLOOR DRAIN RE: PLUMB |
| 22.07 | ACCESSIBLE WALL MOUNTED WATER CLOSET, RE: PLUMB |
| 22.13 | ACCESSIBLE WALL MOUNTED LAVATORY, RE: PLUMB |
| 22.14 | ACCESSIBLE SHOWER AND CONTROL VALVE, RE: PLUMB |

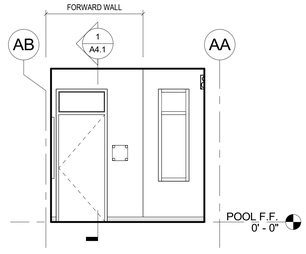
COACH'S OFFICE A100 - INT. ELEVATIONS 1/4" = 1'-0" **21**



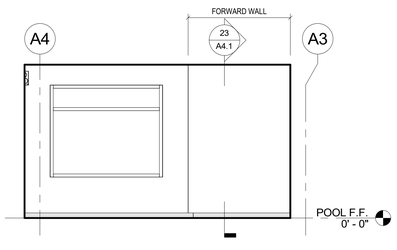

15A NORTH ELEV.
1/4" = 1'-0"




15B EAST ELEV.
1/4" = 1'-0"

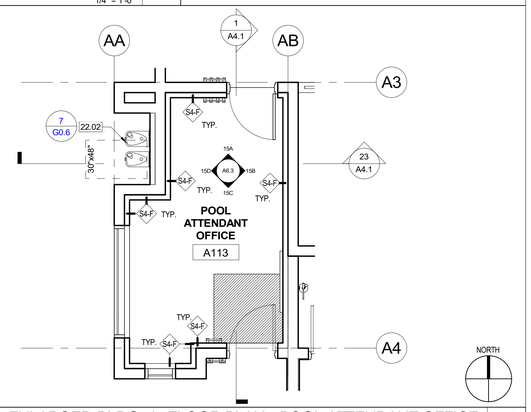



15C SOUTH ELEV.
1/4" = 1'-0"

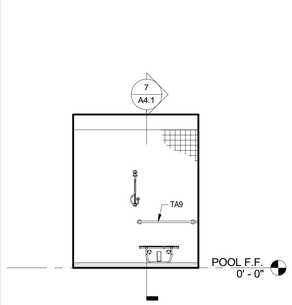



15D WEST ELEV.
1/4" = 1'-0"

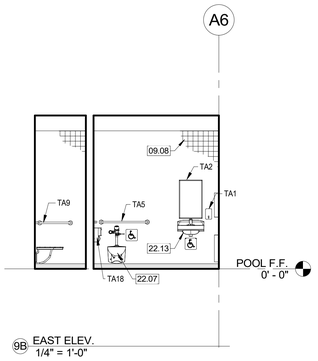
POOL ATTENDANT OFFICE A113 - INT. ELEVATIONS 1/4" = 1'-0" **15**



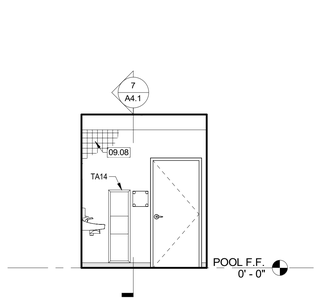

ENLARGED BLDG "A" FLOOR PLAN - POOL ATTENDANT OFFICE 1/4" = 1'-0" **13**



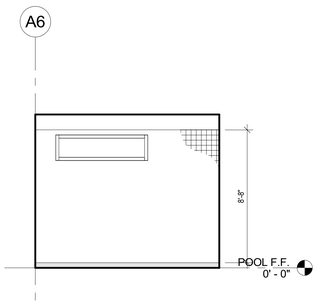

9A NORTH ELEV.
1/4" = 1'-0"



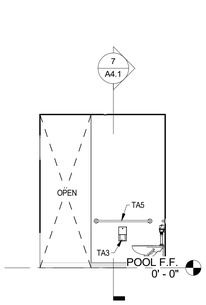

9B EAST ELEV.
1/4" = 1'-0"




9C SOUTH ELEV.
1/4" = 1'-0"

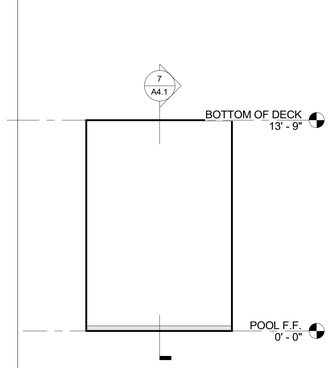



9D WEST ELEV.
1/4" = 1'-0"

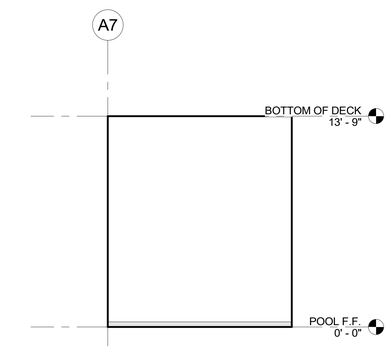



9E NORTH PARTITION ELEV.
1/4" = 1'-0"

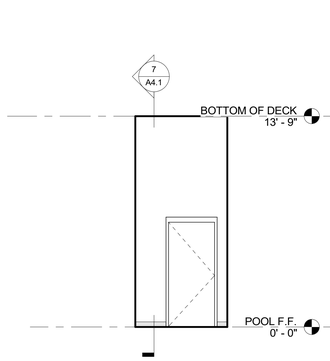
COACH'S RESTROOM A107 - INT. ELEVATIONS 1/4" = 1'-0" **9**



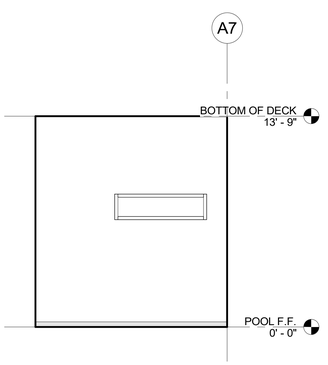

3A NORTH ELEV.
1/4" = 1'-0"




3B EAST ELEV.
1/4" = 1'-0"




3C SOUTH ELEV.
1/4" = 1'-0"




3D WEST ELEV.
1/4" = 1'-0"

STORAGE A108 - INT. ELEVATIONS 1/4" = 1'-0" **3**




ENLARGED BLDG "A" FLOOR PLAN - COACH'S & STORAGE ROOM 1/4" = 1'-0" **1**

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**CENTENNIAL HIGH SCHOOL AQUATICS CENTER**

PROJECT ADDRESS:
1820 RIMPAU AVE
CORONA, CA 92881

CONSTRUCTION DOCUMENTS
FILE #: 33-H4 DSA APPLICATION #: 04-122208




Consultant

Architect
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CNUSD

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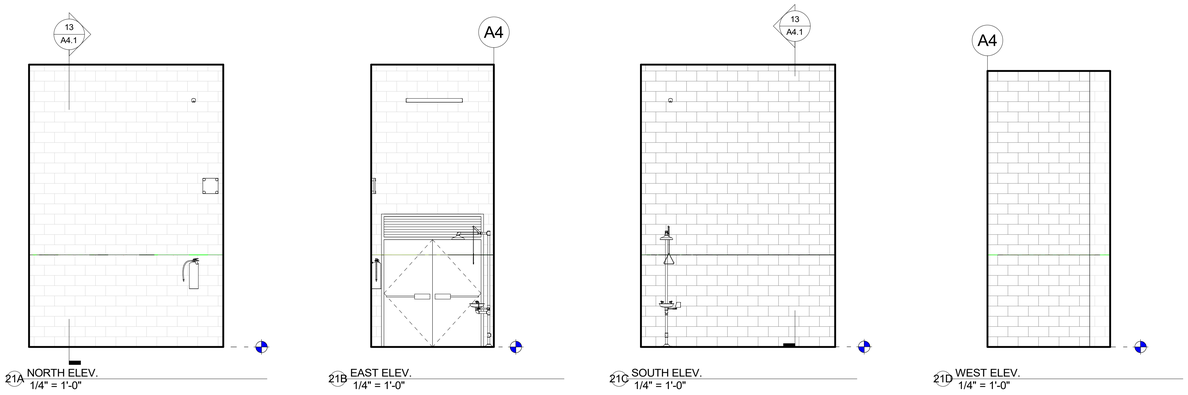
CONSTRUCTION DOCUMENTS

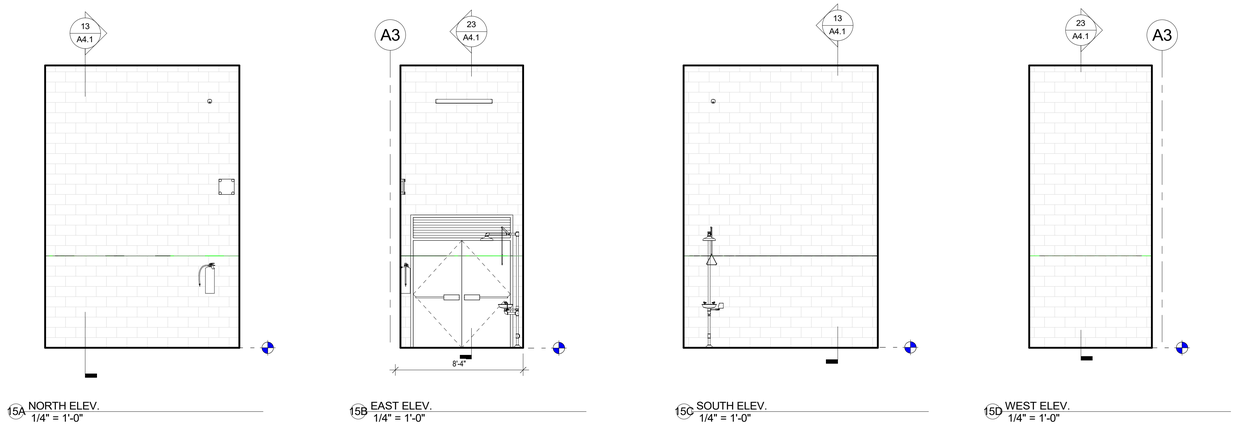
**ENLARGED BLDG "A" FLOOR PLAN - COACH'S & CUSTODIAN'S ROOM**

**A6.3**

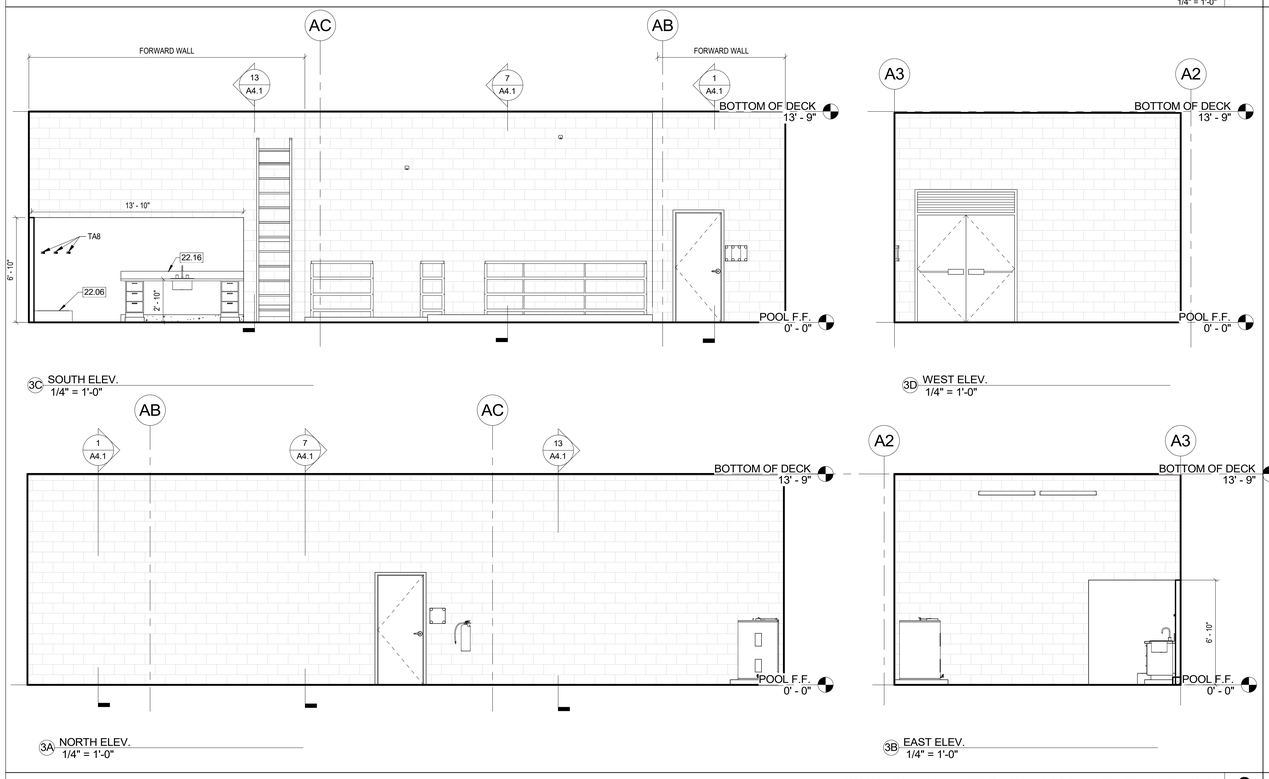
0" 1"



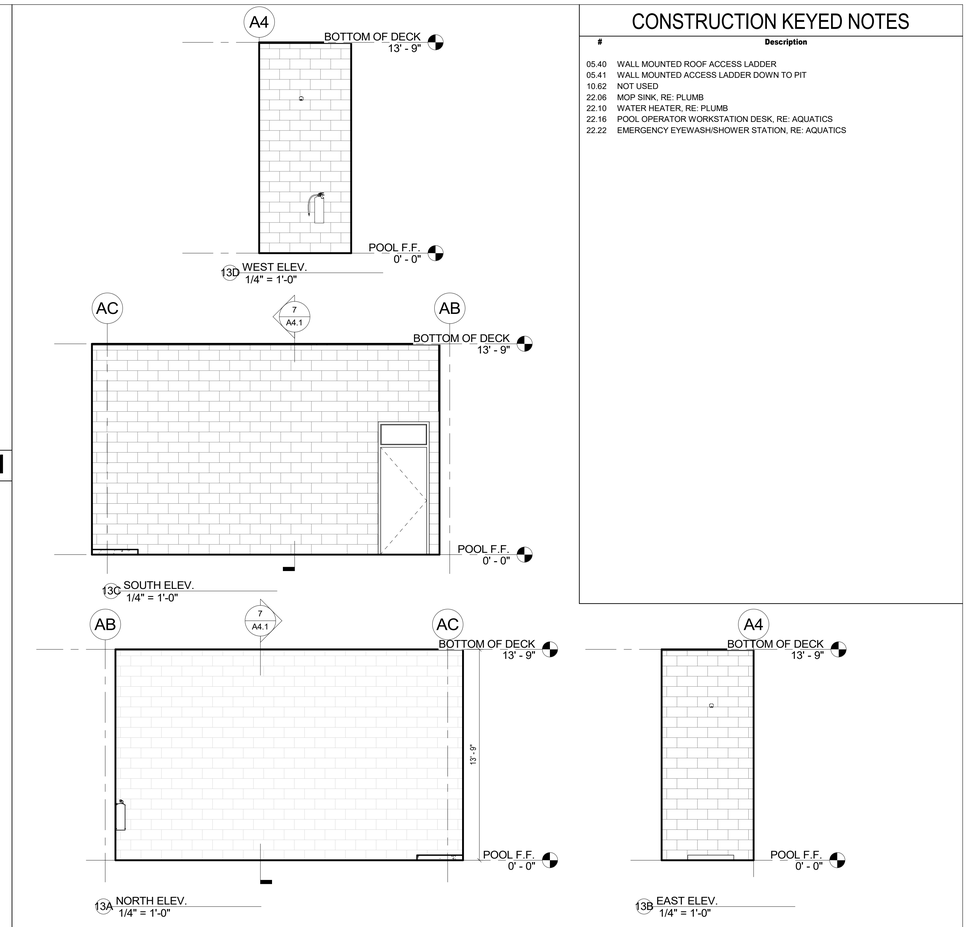

## CHEMICAL STORAGE A111 - INT. ELEVATIONS 1/4" = 1'-0" — 21



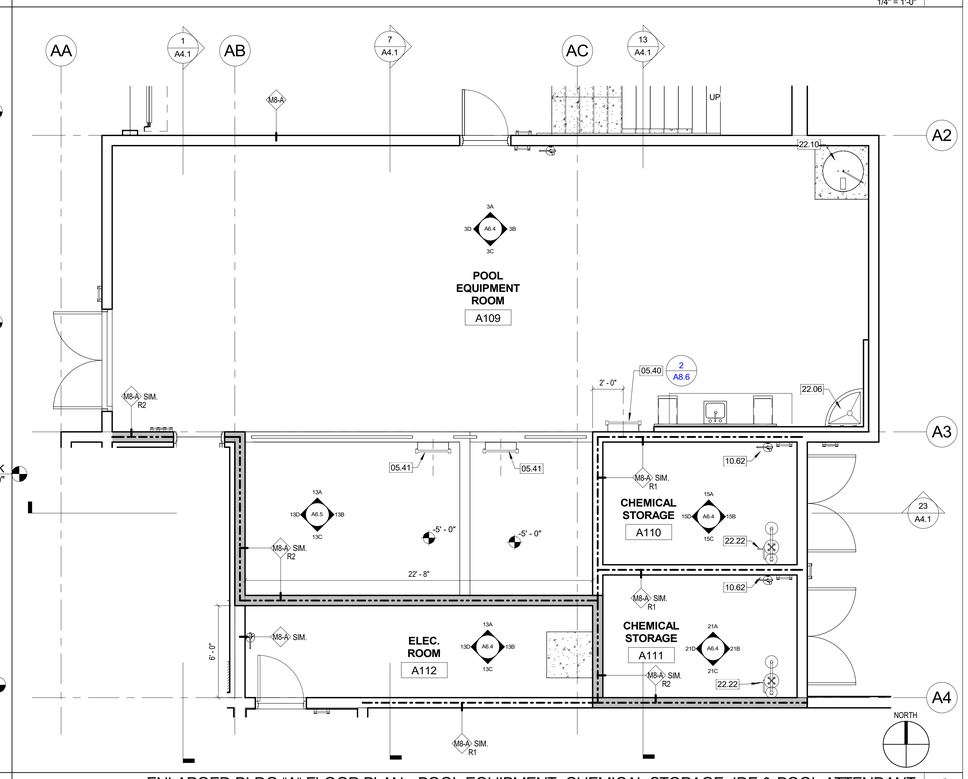

## CHEMICAL STORAGE A110- INT. ELEVATIONS 1/4" = 1'-0" — 15




## POOL EQUIPMENT ROOM A109 - INT. ELEVATIONS 1/4" = 1'-0" — 3




## ELEC. ROOM A112 - INT. ELEVATIONS 1/4" = 1'-0" — 13




## CONSTRUCTION KEYED NOTES

| # | Description |
|---|---|
| 05.40 | WALL MOUNTED ROOF ACCESS LADDER |
| 05.41 | WALL MOUNTED ACCESS LADDER DOWN TO PIT |
| 10.62 | NOT USED |
| 22.06 | MOP SINK, RE: PLUMB |
| 22.10 | WATER HEATER, RE: PLUMB |
| 22.16 | POOL OPERATOR WORKSTATION DESK, RE: AQUATICS |
| 22.22 | EMERGENCY EYEWASH/SHOWER STATION, RE: AQUATICS |

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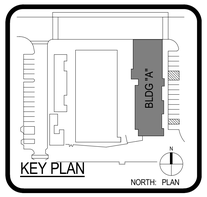
**CENTENNIAL HIGH SCHOOL**
**AQUATICS CENTER**

PROJECT ADDRESS:
1820 RIMPAU AVE.
CORONA, CA 92881

CONSTRUCTION DOCUMENTS
FILE #: 33-H4 DSA APPLICATION #: 04-122208

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CONSTRUCTION DOCUMENTS

**ENLARGED BLDG "A" FLOOR PLANS - MISC.**

**A6.4**

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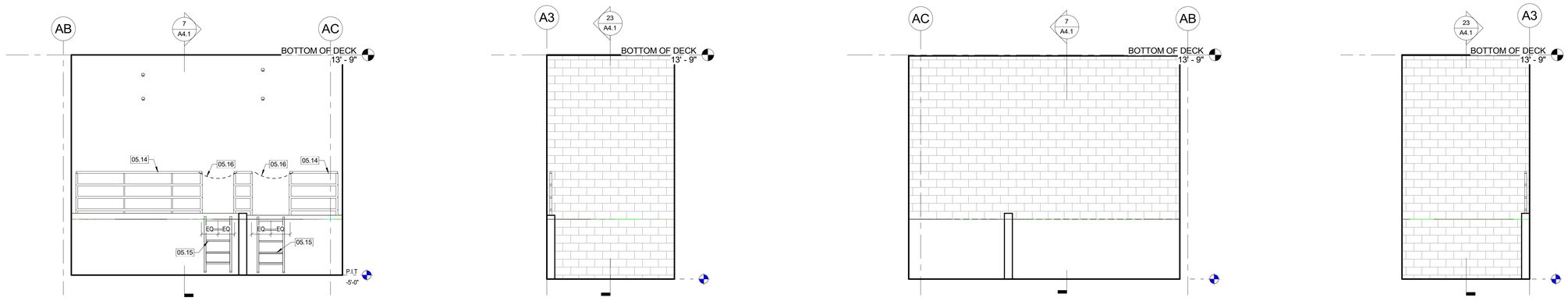
A6.5 - ENLARGED BLDG "A" FLOOR PLAN - STORAGE

## CONSTRUCTION KEYED NOTES

| # | Description |
|---|---|
| 05.03 | HANDRAIL |
| 05.14 | GALV PUMP PIT GUARDRAIL, RE: AQUATICS |
| 05.15 | STAINLESS STEEL PIT LADDER, RE: AQUATICS |
| 05.16 | REMOVABLE RAILING AND SAFETY CHAIN, PER AQUATICS DWGS |
| 05.17 | |



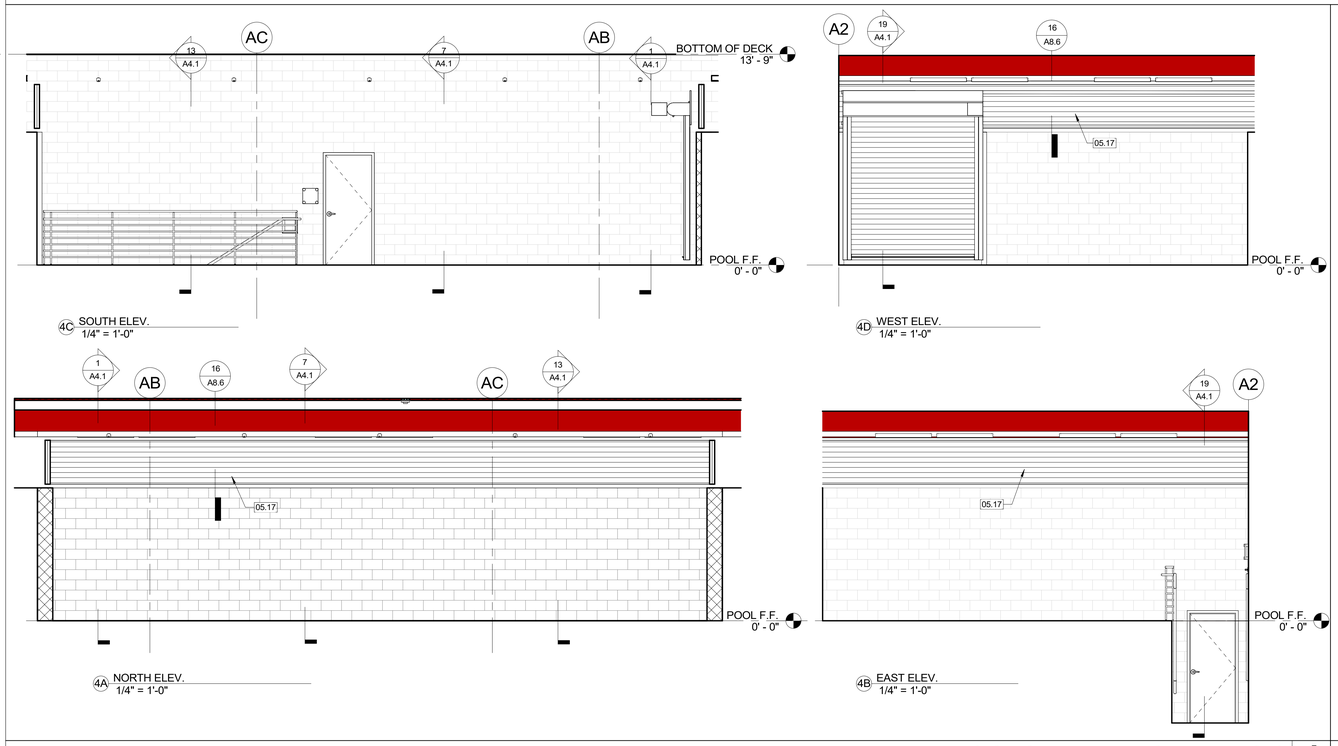

13A NORTH ELEV. 1/4" = 1'-0"

13B EAST ELEV. 1/4" = 1'-0"

13C SOUTH ELEV. 1/4" = 1'-0"

13D WEST ELEV. 1/4" = 1'-0"

MECHANICAL PIT - ENLARGED ELEVATIONS 1/4" = 1'-0" **13**



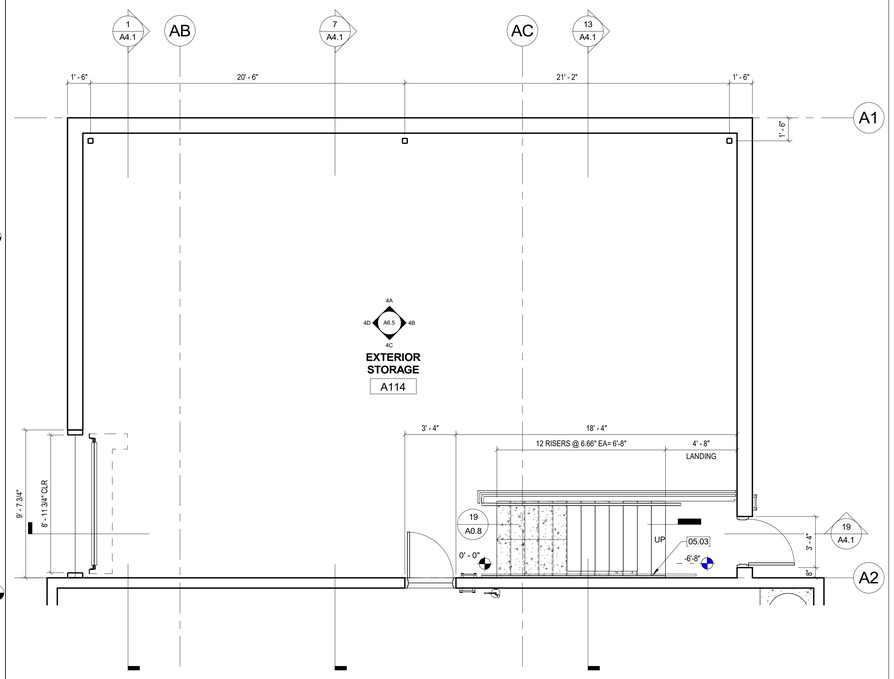

4C SOUTH ELEV. 1/4" = 1'-0"

4D WEST ELEV. 1/4" = 1'-0"

4A NORTH ELEV. 1/4" = 1'-0"

4B EAST ELEV. 1/4" = 1'-0"

STORAGE A114 - ENLARGED ELEVATIONS 1/4" = 1'-0" **4**




BLDG "A" FLOOR PLAN - EXTERIOR STORAGE 1/4" = 1'-0" **1**

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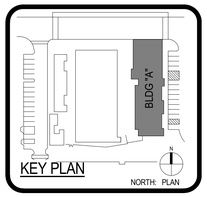


KEY PLAN

Consultant

Architect

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CONSTRUCTION DOCUMENTS

ENLARGED BLDG "A"
FLOOR PLAN - STORAGE

A6.5

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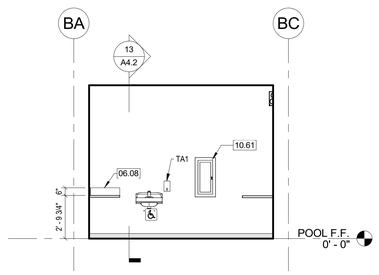
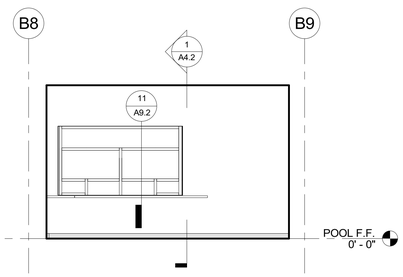
A6.6 - ENLARGED BLDG "B" FLOOR PLAN - RESTROOMS & CONCESSIONS

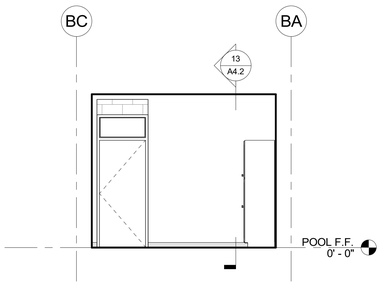
0" 1"



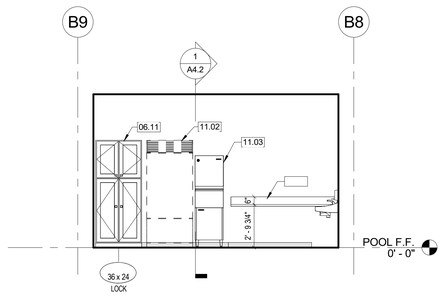

26A NORTH ELEV.
1/4" = 1'-0"




26B EAST ELEV.
1/4" = 1'-0"




26C SOUTH ELEV.
1/4" = 1'-0"

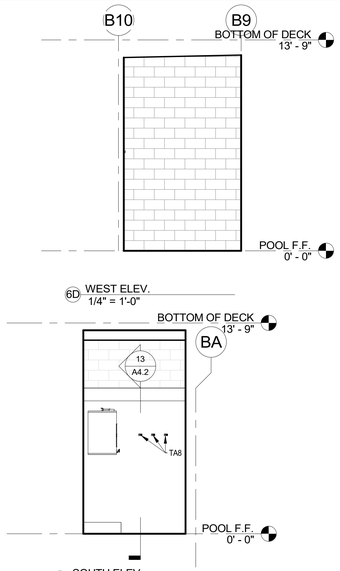



26D WEST ELEV.
1/4" = 1'-0"

CONCESSIONS B100 - INT. ELEVATIONS 1/4" = 1'-0" **26**

## CONSTRUCTION KEYED NOTES

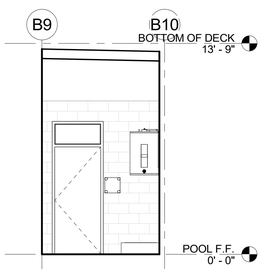
| # | Description |
|---|---|
| 06.02 | CASEWORK/COUNTERTOP. SEE INTERIOR ELEVATIONS |
| 06.05 | CASEWORK |
| 06.08 | PLAM COUNTERTOP WITH BACK SPLSH |
| 06.11 | PLAM TALL CABINET |
| 09.08 | CERAMIC TILE WAINSCOT |
| 10.61 | SEMI-RECESSED FIRE EXTINGUISHER CABINET |
| 11.02 | O.F.O.I. REFRIGERATOR |
| 11.03 | ICE MACHINE AND BIN |
| 12.07 | RESTROOM PARTITION |
| 22.02 | ACCESSIBLE WALL MOUNTED HI-LO DRINKING FOUNTAIN W/BOTTLE FILLER, RE: PLUMB |
| 22.03 | FLOOR DRAIN RE: PLUMB |
| 22.04 | WALL MOUNTED WATER CLOSET, RE: PLUMB |
| 22.05 | LAVATORY, RE: PLUMB |
| 22.06 | MOP SINK, RE: PLUMB |
| 22.07 | ACCESSIBLE WALL MOUNTED WATER CLOSET, RE: PLUMB |
| 22.08 | WALL MOUNTED URINAL, RE: PLUMB |
| 22.13 | ACCESSIBLE WALL MOUNTED LAVATORY, RE: PLUMB |



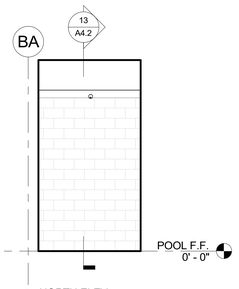

6D WEST ELEV.
1/4" = 1'-0"




6C SOUTH ELEV.
1/4" = 1'-0"

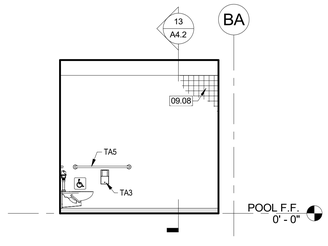



6B EAST ELEV.
1/4" = 1'-0"

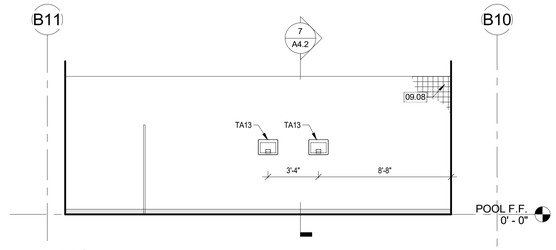



6A NORTH ELEV.
1/4" = 1'-0"

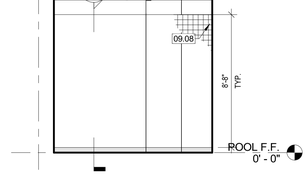
CUSTODIAN B101 - INT. ELEVATIONS 1/4" = 1'-0" **6**



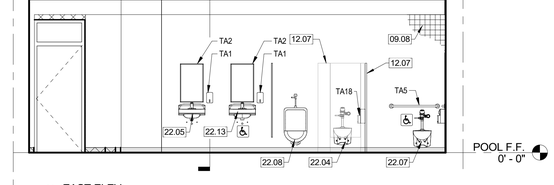

15C SOUTH ELEV.
1/4" = 1'-0"




15D WEST ELEV.
1/4" = 1'-0"

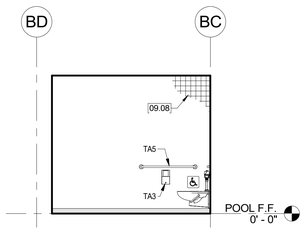



15A NORTH ELEV.
1/4" = 1'-0"

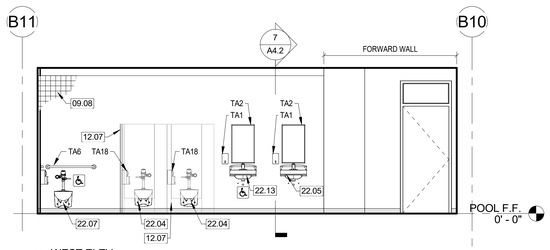



15B EAST ELEV.
1/4" = 1'-0"

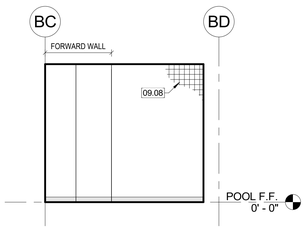
BOY'S RESTROOM B102 - INT. ELEVATIONS 1/4" = 1'-0" **15**



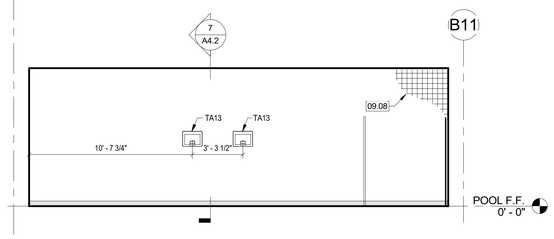

3C SOUTH ELEV.
1/4" = 1'-0"




3D WEST ELEV.
1/4" = 1'-0"

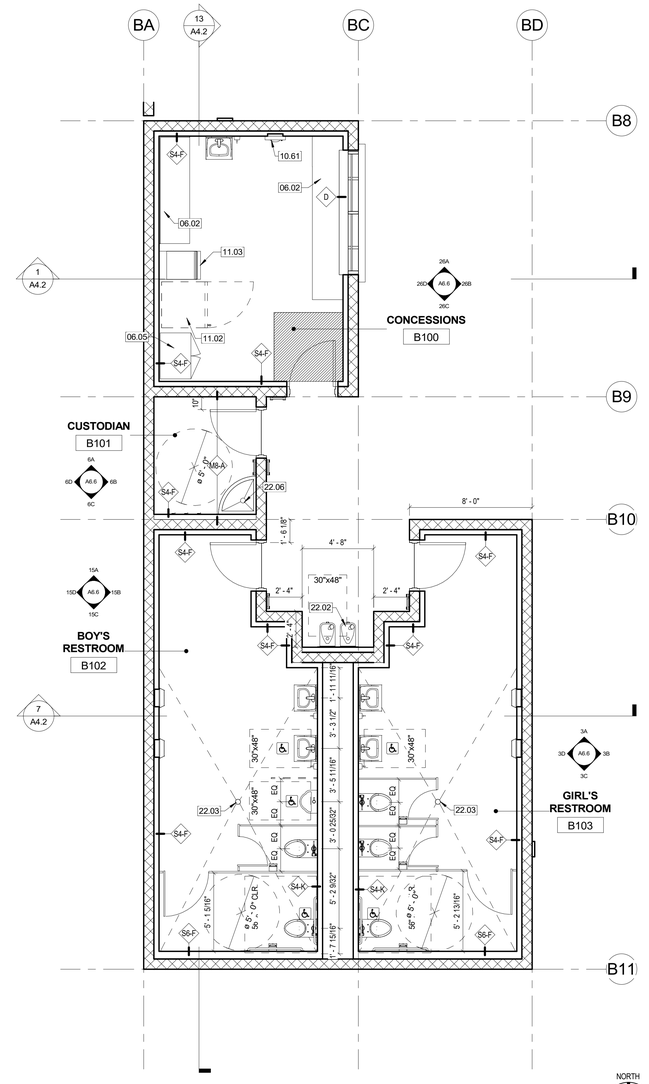



3A NORTH ELEV.
1/4" = 1'-0"




3B EAST ELEV.
1/4" = 1'-0"

GIRL'S RESTROOM B103 - ENLARGED ELEVATIONS 1/4" = 1'-0" **3**




OVERALL FLOOR PLAN - BLDG "B" - RESTROOMS, CONESSIONS & CUSTODIAN 1/4" = 1'-0" **1**

NORTH

**FILE PATH:** Z:\Projects\...
5/16/2023 5:58:38 PM

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# CENTENNIAL HIGH SCHOOL AQUATICS CENTER

**PROJECT ADDRESS:**
1820 RIMPAU AVE.
CORONA, CA 92881

**CONSTRUCTION DOCUMENTS**
FILE #: **33-H4** DSA APPLICATION #: **04-122208**






Consultant

Architect




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| DATE | PROJECT NUMBER |
|---|---|
| 5/5/2023 | 220306 |

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| No. | Description | Date |
|---|---|---|

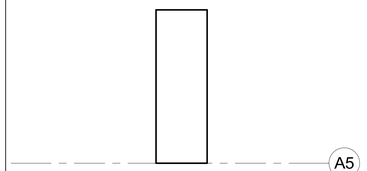
CONSTRUCTION DOCUMENTS

**ENLARGED BLDG "B" FLOOR PLAN - RESTROOMS & CONCESSIONS**

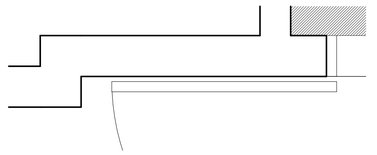
**A6.6**

A7.1 - DETAILS - CEILING, SOFFIT & WALL CONNECTION

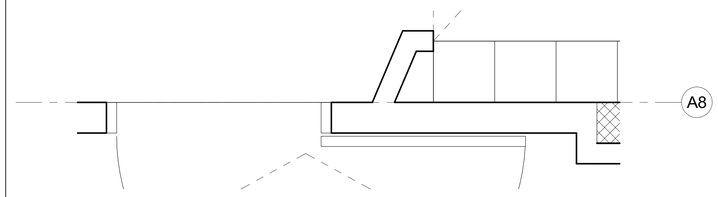
0" 1"



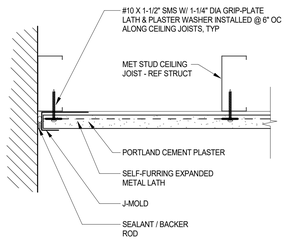

Detail 12 1" = 1'-0" **25**



Detail 16 1" = 1'-0" **19**

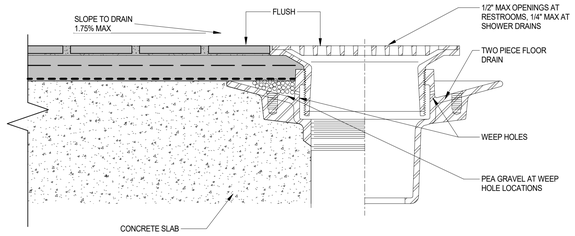



Detail 18 1" = 1'-0" **13**

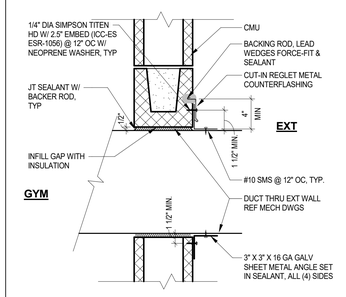



**NOTE:**
CEMENT PLASTER FASTENING SHALL COMPLY WITH 2019 CBC SECTION 2512 - EXTERIOR PLASTER

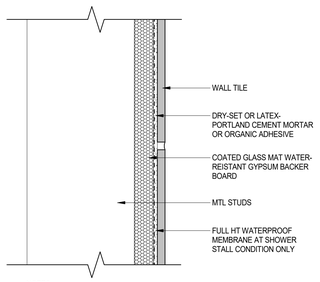
SOFFIT AT CMU WALL 3" = 1'-0" **10**




FLOOR DRAIN 6" = 1'-0" **8**

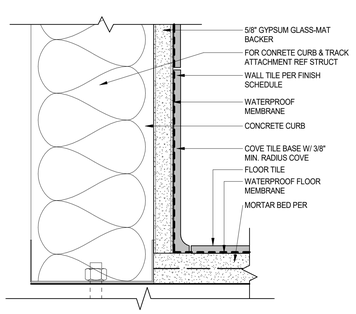



DUCT THRU CMU WALL 1 1/2" = 1'-0" **7**

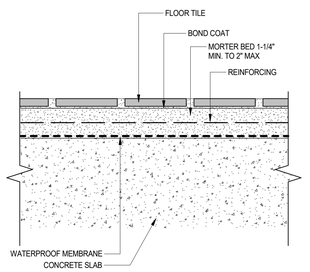



NOTES:
1. AT STUD WALL CONDITION - PER ASSEMBLY PER TCNA MANUAL W245-19
2. AT TILE OVER CMU CONDITION - PER ASSEMBLY PER TCNA MANUAL W2021-19

THIN-SET WALL TILE 6" = 1'-0" **4**

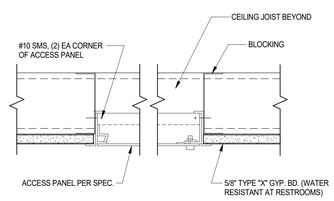



TILE WALL BASE 6" = 1'-0" **3**




ASSEMBLY PER TCNA MANUAL F121

CEMENT MORTAR BED 6" = 1'-0" **2**




095000.13-S Rev 11/05

CEILING ACCESS PANEL 3" = 1'-0" **1**

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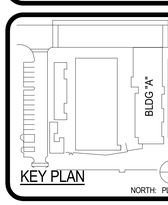
**CENTENNIAL HIGH SCHOOL AQUATICS CENTER**

**PROJECT ADDRESS:**
1920 RIMPAU AVE.
CORONA, CA 92881

**CONSTRUCTION DOCUMENTS** FILE #: **33-H4** DSA APPLICATION #: **04-122208**




KEY PLAN NORTH: PLAN

Consultant

Architect

LICENSED ARCHITECT David T. Blain No. C-28451 REN. 11-30-2024 STATE OF CALIFORNIA

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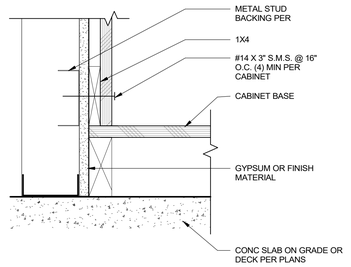
**CONSTRUCTION DOCUMENTS**

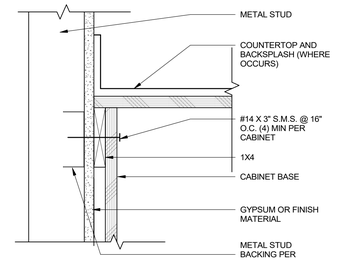
**DETAILS - CEILING, SOFFIT & WALL CONNECTION**

**A7.1**

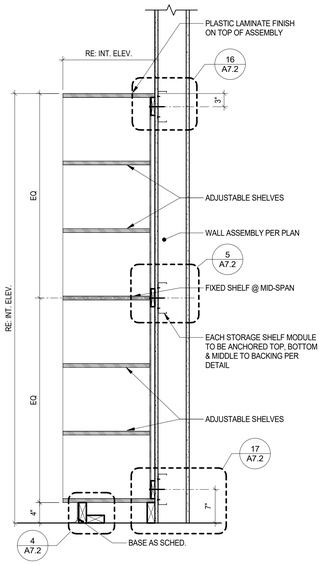
0" 1"



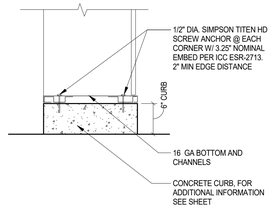

CABINET ANCHORAGE - AT WALL 17
3" = 1'-0"



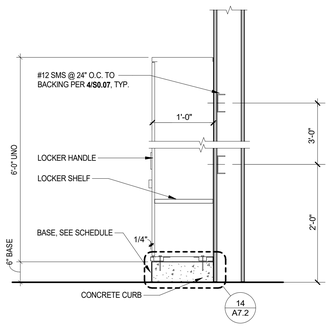

CABINET ANCHORAGE - TOP 16
3" = 1'-0"



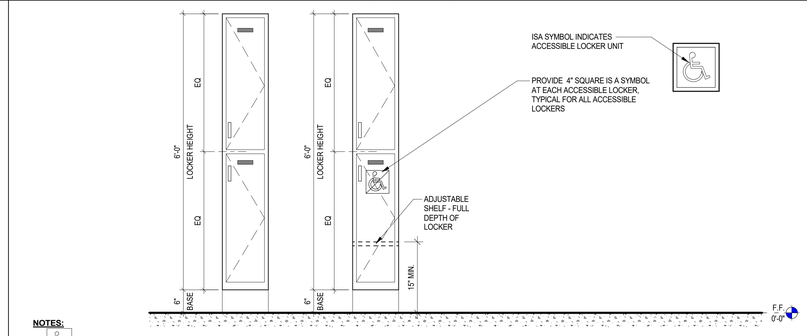

TALL STORAGE CABINET 10
1" = 1'-0"




LOCKER ANCHORAGE 14
1 1/2" = 1'-0"

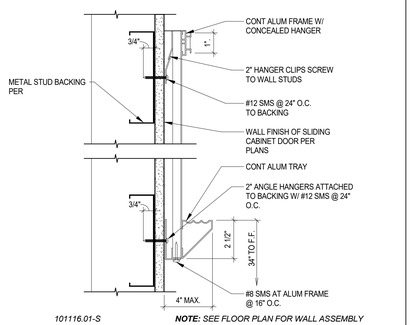



TYP. WALL MOUNTED LOCKER 13
1" = 1'-0"




**NOTES:**
1. ACCESSIBLE LOCKER- SEE PLANS FOR LOCATIONS
2. OPERABLE PARTS OF AN ACCESSIBLE LOCKER SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST.
3. THE FORCE REQUIRED TO ACTIVATE ANY OPERABLE PART SHALL BE 5 POUNDS (22.2 N) MAXIMUM.
4. CODE REACH HEIGHT- 15" MINIMUM AND 48" MAXIMUM FOR ALL ACCESSIBLE LOCKERS.
5. LOCKERS IDENTIFIED AS FREE-STANDING SHALL HAVE MFR PROVIDED METAL BASE IN LIEU OF CONCRETE.

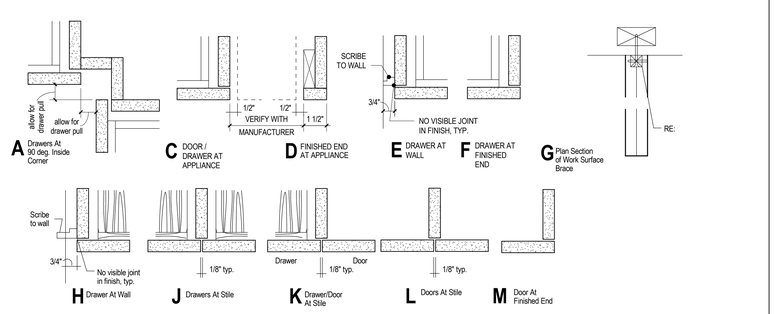
LOCKERS ELEVATIONS 11
3/4" = 1'-0"



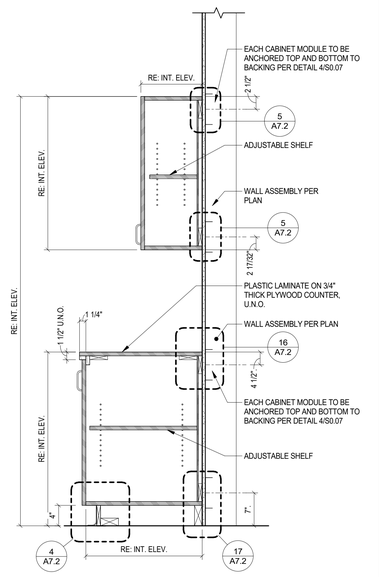

101116.01-S

***NOTE:** SEE FLOOR PLAN FOR WALL ASSEMBLY*

MARKERBOARD SECTION 9
3" = 1'-0"



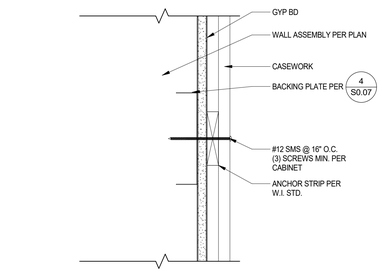

CABINET JOINTS 7
3" = 1'-0"



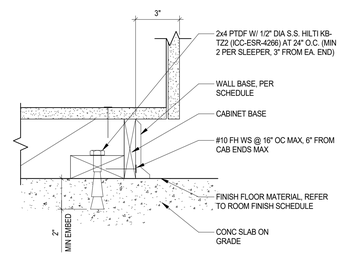

064116.10-S

*Rev 04/17*

UPPER & LOWER CABINET 1
1" = 1'-0"



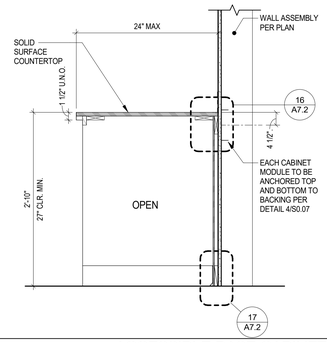

CASEWORK BACKING ATTACHMENT 5
3" = 1'-0"



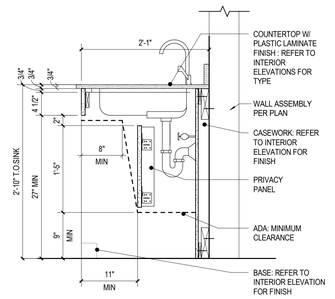

064116.02-S

*Rev 07/17*

BASE CABINET ANCHORAGE 4
3" = 1'-0"




ACCESSIBLE BASE CABINET 3
1" = 1'-0"




ACCESSIBLE SINK 2
1" = 1'-0"

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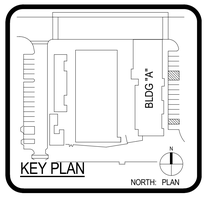
**CENTENNIAL HIGH SCHOOL AQUATICS CENTER**

**PROJECT ADDRESS:** 1820 RIMPAU AVE. CORONA, CA 92881

**CONSTRUCTION DOCUMENTS** DSA APPLICATION #: **04-122208**
FILE #: **33-H4**




Consultant

Architect

LICENSED ARCHITECT
David T. Blain
No. C-26451
EXP. 11-30-2024
STATE OF CALIFORNIA

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| 5/5/2023 | 220306 |

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**CONSTRUCTION DOCUMENTS**

**DETAILS - CASEWORK & LOCKERS**

**A7.2**

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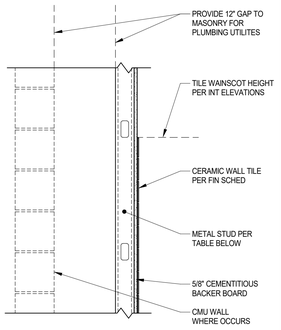
A8.1 - WALL TYPES

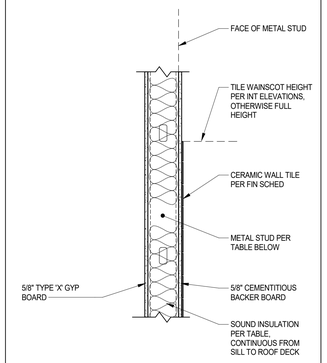
0" 1"




**NOTES:**
1. REFER TO STRUCTURAL FOR TYPICAL METAL STUD INFORMATION... - S0.4
2. FOR TOP AND BOTTOM CONDITIONS SEE DETAILS..... - --- - ---

| TYPE | DESCRIPTION | FIRE | UL # | INSUL |
|---|---|---|---|---|
| S4-K | 4" METAL STUD | NR | N/A | -- |
| | | | | |

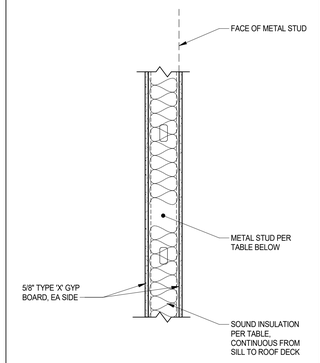
INT MTL STUD WALL TYPE K 24
1" = 1'-0"




**NOTES:**
1. REFER TO STRUCTURAL FOR TYPICAL METAL STUD INFORMATION... - S0.4
2. FOR TOP AND BOTTOM OF NON-RATED WALLS SEE DETAILS.. - --- - ---
3. FOR TOP AND BOTTOM OF RATED WALLS SEE DETAILS..... - --- - ---

| TYPE | DESCRIPTION | FIRE | UL # | INSUL |
|---|---|---|---|---|
| S6-J | 6" METAL STUD | NR | N/A | STC 50 |
| S10-J, R1 | 10" METAL STUD | 1 HR | U419 | STC 50 |

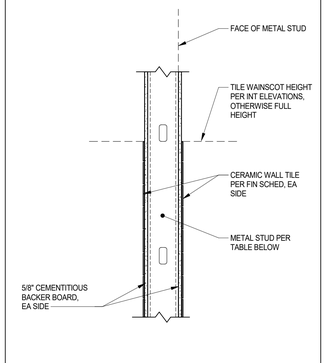
INT MTL STUD WALL TYPE J 23
1" = 1'-0"




**NOTES:**
1. REFER TO STRUCTURAL FOR TYPICAL METAL STUD INFORMATION... - S0.4
2. FOR TOP AND BOTTOM OF NON-RATED WALLS SEE DETAILS... - --- - ---
3. FOR TOP AND BOTTOM OF RATED WALLS SEE DETAILS..... - --- - ---

| TYPE | DESCRIPTION | FIRE | UL # | INSUL |
|---|---|---|---|---|
| S6-H | 6" METAL STUD | NR | N/A | STC 50 |
| S6-H, R1 | 6" METAL STUD | 1 HR | U419 | STC 50 |

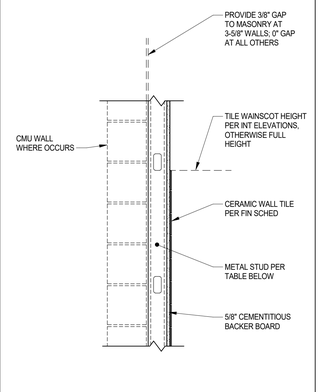
INT MTL STUD WALL TYPE H 22
1" = 1'-0"




**NOTES:**
1. REFER TO STRUCTURAL FOR TYPICAL METAL STUD INFORMATION... - S0.4
2. FOR TOP AND BOTTOM CONDITIONS SEE DETAILS..... - --- - ---

| TYPE | DESCRIPTION | FIRE | UL # | INSUL |
|---|---|---|---|---|
| S4-G | 4" METAL STUD | NR | N/A | -- |
| S6-G | 6" METAL STUD | NR | N/A | -- |

INT MTL STUD WALL TYPE G 21
1" = 1'-0"




**NOTES:**
1. REFER TO STRUCTURAL FOR TYPICAL METAL STUD INFORMATION... - S0.4
2. FOR TOP AND BOTTOM CONDITIONS SEE DETAILS..... - --- - ---

| TYPE | DESCRIPTION | FIRE | UL # | INSUL |
|---|---|---|---|---|
| S4-F | 3-5/8" METAL STUD | NR | N/A | -- |
| S6-F | 6" METAL STUD | NR | N/A | -- |

INT MTL STUD WALL TYPE F 20
1" = 1'-0"

**CMU WALL TYPE NOTES:**

1. CMU EXPANSION JOINTS ARE NOT REQUIRED ON THIS PROJECT. REFER TO STRUCTURAL PLANS FOR HORIZONTAL REINFORCING REQUIREMENTS.
2. REFER TO WALL SECTIONS AND STRUCTURAL DETAILS FOR THE USE OF STARTER COURSES AT THE BASE OF ALL CMU WALLS.
3. PROVIDE CMU LINTELS FOR ALL OPENINGS IN CMU WALLS. COORDINATE WITH STRUCTURAL DRAWINGS.
4. PROVIDE GAP BETWEEN TOP OF CMU WALL AND STRUCTURE/DECK ABOVE FOR POTENTIAL DEFLECTION. SEAL WITH APPROPRIATE SEALANT. REFER TO STRUCTURAL FOR GAP SIZE.
5. REFER TO STRUCTURE FOR ALL REINFORCING, BOND BEAM LOCATIONS AND LINTEL SCHEDULES.

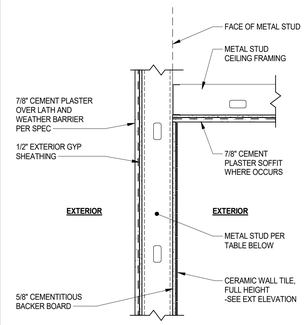
**METAL STUD WALL TYPE NOTES:**

1. ALL METAL STUD PARTITIONS ARE 20 GAUGE METAL STUDS AT 16" O.C. UNLESS NOTED OTHERWISE. IF THE LIMITING HEIGHT FOR A PARTITION IS EXCEEDED, INCREASE GAUGE OF STUDS AS INDICATED ON STRUCTURAL DRAWINGS.
2. PROVIDE 16 GAUGE METAL STUDS IN LIEU OF 20 GAUGE METAL STUDS AT WALLS WITH CERAMIC TILE FINISH AND/OR WHERE BLOCKING IS INSTALLED FOR WALL MOUNTED ITEMS.
3. SET ALL FLOOR TRACKS ON A CONTINUOUS RIBBON OF SEALANT.
4. PARTITIONS DESIGNATED TO HAVE SOUND ATTENUATION BLANKETS:
   A. PROVIDE SOUND ATTENUATION BLANKETS OR BATTS FULL HEIGHT OF PARTITION, MATCHING STUD THICKNESS, UNLESS NOTED OTHERWISE.
   B. FILL ALL DECK VOIDS WITH SOUND ATTENUATION MATERIAL.
   C. SEAL PARTITION PERIMETER AND ALL PENETRATIONS WITH ACOUSTICAL SEALANT.
   D. PROVIDE CONTINUOUS ACOUSTICAL SEALANT AT BOTTOM OF PARTITION ON BOTH SIDES AT NON-RATED PARTITIONS AND PROVIDE CONTINUOUS FIRE RATED SEALANT AT FIRE-RATED PARTITIONS.
5. PROVIDE CEMENTITIOUS TILE BACKER BOARD ON WALLS BEHIND AND ADJACENT TO PLUMBING FIXTURES, AND BEHIND ALL CERAMIC TILE AT ALL DAMP LOCATIONS AT GYPSUM BOARD PARTITIONS.
6. RIGIDLY BRACE ALL DOOR JAMBS AT THE HEAD, HINGE AND STRIKE SIDES AND WINDOW AT THE HEAD, SILL AND JAMBS.
7. LOCATE CONTROL JOINTS IN GYPSUM BOARD PARTITIONS AS FOLLOWS:
   A. PARTITIONS OR FURRING RUNS EXCEEDING 30'-0"
   B. WHERE A PARTITION ABUTS A STRUCTURAL ELEMENT OR DISSIMILAR WALL
   C. CONSTRUCTION CHANGES WITHIN PLANE OF PARTITION
   D. AT EXPANSION OR CONTROL JOINTS THROUGHOUT THE BUILDING
   E. AT BOTH JAMBS OF INTERIOR AND EXTERIOR DOOR AND WINDOW FRAMES, ABOVE AND BELOW FULL HEIGHT OF WALL
8. FIRE RATED PARTITIONS:
   A. PROVIDE TYPE "X" FIRE RESISTIVE GYPSUM BOARD, 5/8" THICK UNLESS NOTED OTHERWISE
   B. FILL ALL VOIDS AT DECK WITH FOAM FIRESTOP SEALANT
   C. SEAL PARTITION PERIMETER AND ALL PENETRATIONS WITH RATED SEALANT.
   D. REFER TO UL MANUAL FOR RATED PARTITION DESCRIPTIONS AND DETAILED CONSTRUCTION NOTES.
9. PROVIDE DEFLECTION TRACK AT ALL STUD CONNECTIONS AT BOTTOM OF DECK AND FILL VOIDS AS REQUIRED.

**GENERAL NOTES:**

1. REFER TO BRACING DETAILS FOR SUPPORT OF THE TOP OF EACH PARTITION TYPE AND BRACING OF PARTITIONS THAT EXCEED LIMITING HEIGHT OF PARTITION TYPES.
2. REFER TO FINISH SCHEDULES FOR APPLIED FINISHES TO BOTH SIDES OF WALLS.
3. COORDINATE EXPOSED CMU FINISHES/TEXTURES BY REVIEWING EXTERIOR ELEVATIONS FOR LOCATION.
4. COORDINATE WALL FINISHES WITH ADJACENT CEILING HEIGHTS PER ELEVATIONS, SCHEDULES, SECTIONS AND/OR DETAILS.
5. CONSULT ARCHITECT FOR ANY DISCREPANCIES OR QUESTIONS REGARDING PARTITIONS PRIOR TO INSTALLATION.

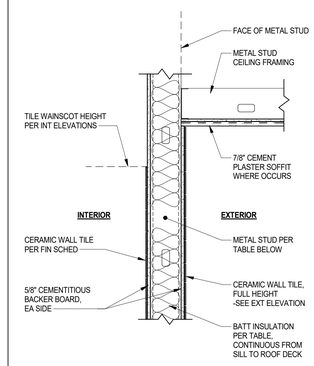
PARTITION TYPE - NOTES 13
1" = 1'-0"




**NOTES:**
1. REFER TO STRUCTURAL FOR ADDITIONAL INFORMATION... - S0.4

| TYPE | DESCRIPTION | FIRE | UL # | INSUL |
|---|---|---|---|---|
| S8-D | 8" METAL STUD | NR | N/A | N/A |
| | | | | |

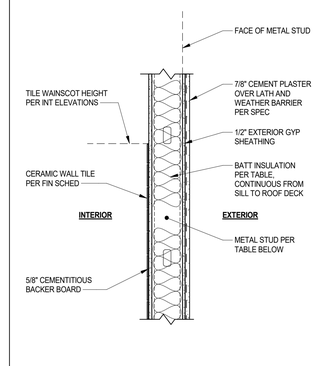
EXT MTL STUD WALL TYPE D 7
1" = 1'-0"




**NOTES:**
1. REFER TO STRUCTURAL FOR ADDITIONAL INFORMATION... - S0.4

| TYPE | DESCRIPTION | FIRE | UL # | INSUL |
|---|---|---|---|---|
| S8-C | 8" METAL STUD | NR | N/A | R19 |
| | | | | |

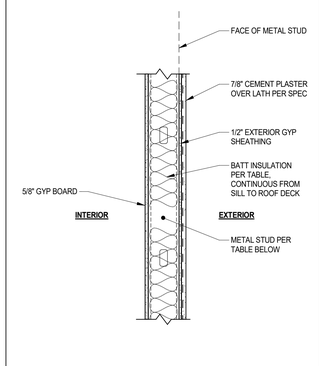
EXT MTL STUD WALL TYPE C 6
1" = 1'-0"




**NOTES:**
1. REFER TO STRUCTURAL FOR ADDITIONAL INFORMATION... - S0.4

| TYPE | DESCRIPTION | FIRE | UL # | INSUL |
|---|---|---|---|---|
| S8-B | 8" METAL STUD | NR | N/A | R19 |
| | | | | |

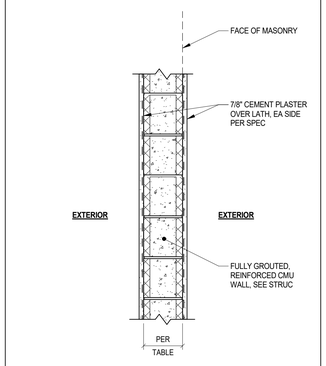
EXT MTL STUD WALL TYPE B 5
1" = 1'-0"




**NOTES:**
1. REFER TO STRUCTURAL FOR ADDITIONAL INFORMATION... - S0.4

| TYPE | DESCRIPTION | FIRE | UL # | INSUL |
|---|---|---|---|---|
| S8-A | 8" METAL STUD | NR | N/A | R19 |
| | | | | |

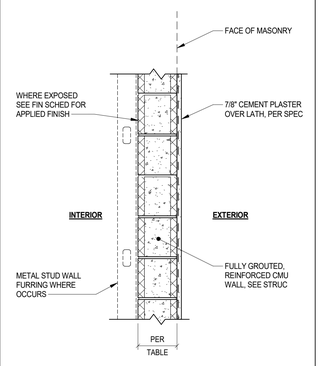
EXT MTL STUD WALL TYPE A 4
1" = 1'-0"




**NOTES:**
1. REFER TO STRUCTURAL FOR ADDITIONAL INFORMATION... - S0.6 - S0.7

| TYPE | DESCRIPTION | FIRE | UL # | INSUL |
|---|---|---|---|---|
| M8-C | 8" CONCRETE MASONRY UNIT | NR | N/A | -- |
| | | | | |

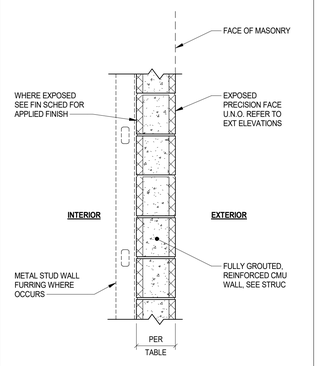
EXT MASONRY WALL TYPE C 3
1" = 1'-0"




**NOTES:**
1. REFER TO STRUCTURAL FOR ADDITIONAL INFORMATION... - S0.6 - S0.7

| TYPE | DESCRIPTION | FIRE | UL # | INSUL |
|---|---|---|---|---|
| M8-B | 8" CONCRETE MASONRY UNIT | NR | N/A | -- |
| M12-B | 12" CONCRETE MASONRY UNIT | NR | N/A | -- |

EXT MASONRY WALL TYPE B 2
1" = 1'-0"




**NOTES:**
1. REFER TO STRUCTURAL FOR ADDITIONAL INFORMATION... - S0.6 - S0.7
2. FOR TOP OF RATED WALL SEE DETAIL..... - ---
2. AT "SIM" CONDITION, BOTH SIDES OF WALL ARE INTERIOR. REFER TO FINISH SCHEDULE FOR APPLIED FINISHES

| TYPE | DESCRIPTION | FIRE | UL # | INSUL |
|---|---|---|---|---|
| M8-A | 8" CONCRETE MASONRY UNIT | NR | N/A | -- |
| M8-A, R1 | 8" CONCRETE MASONRY UNIT | 1 HR | # | -- |
| M8-A, R2 | 8" CONCRETE MASONRY UNIT | 2 HR | # | -- |
| M12-A | 12" CONCRETE MASONRY UNIT | NR | N/A | -- |

EXT MASONRY WALL TYPE A 1
1" = 1'-0"

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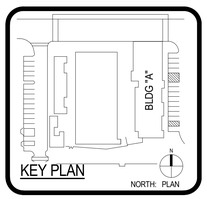
# CENTENNIAL HIGH SCHOOL AQUATICS CENTER

PROJECT ADDRESS:
1820 RIMPAU AVE.
CORONA, CA 92881

CONSTRUCTION DOCUMENTS
FILE #: 33-H4 DSA APPLICATION #: 04-122208




KEY PLAN

Consultant

Architect

LICENSED ARCHITECT David T. Blair No. C-29215 REN 11-30-2024 STATE OF CALIFORNIA

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CONSTRUCTION DOCUMENTS

WALL TYPES

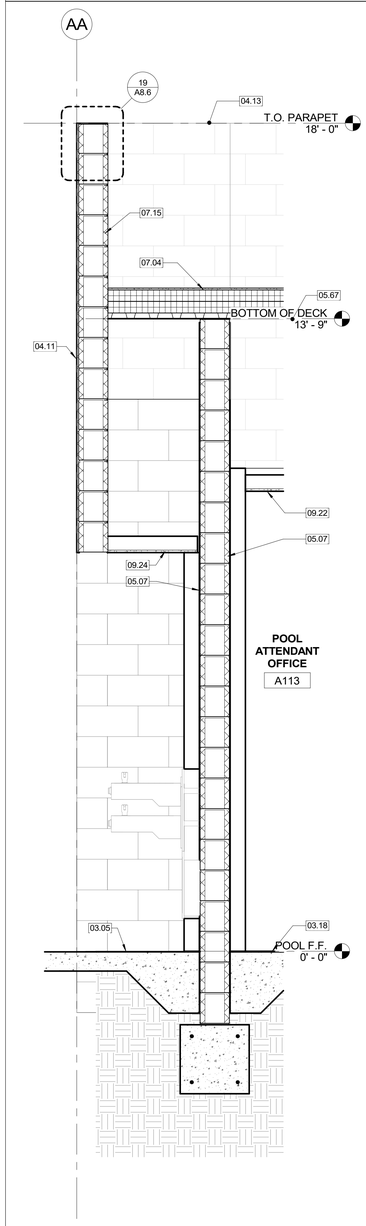
A8.1

A8.2 - WALL SECTIONS

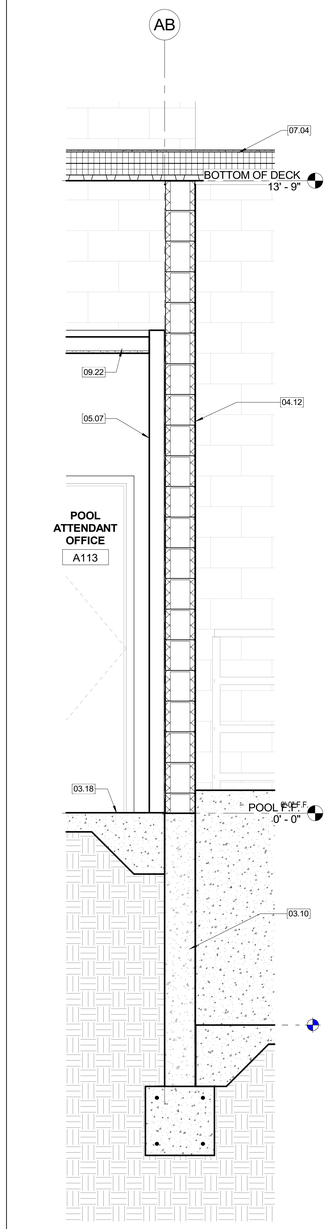
0" 1"

# CONSTRUCTION KEYED NOTES

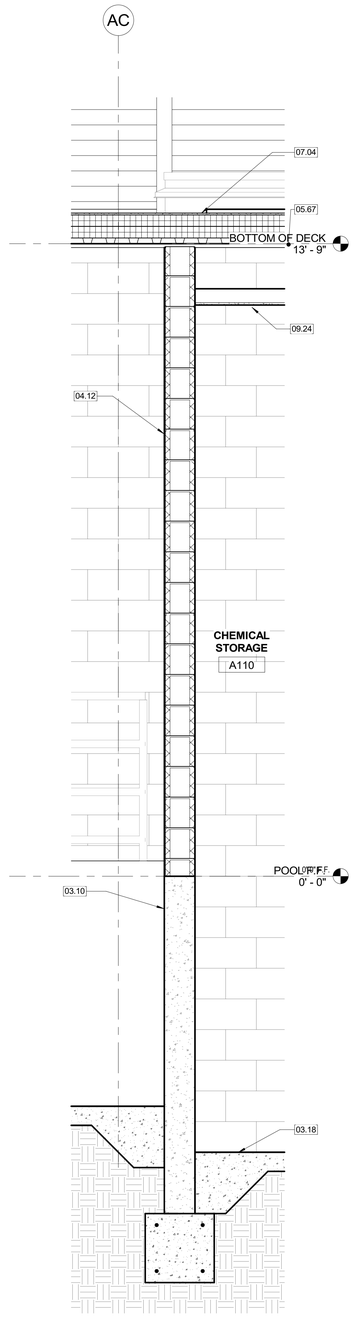
| # | Description |
|---|---|
| 03.02 | CONCRETE FOOTING, RE: STRUC |
| 03.05 | CONC POOL DECK, RE: AQUATICS |
| 03.10 | CAST-IN-PLACE CONC PIT WALL, RE: STRUC |
| 03.18 | CONCRETE SLAB ON GRADE, RE: STRUC |
| 04.11 | EXPOSED EXTERIOR CMU WALL, RE: EXT ELEV FOR FINISH |
| 04.12 | EXPOSED INTERIOR CMU WALL |
| 04.13 | TOP OF CMU PARAPET WALL, RE: ROOF PLAN |
| 05.07 | METAL STUD FURRING WALL, RE: FLOOR PLAN & WALL TYPES |
| 05.08 | HSS COLUMN BEYOND |
| 05.67 | TOP OF STEEL, RE: STRUC |
| 07.04 | CLASS 'A'ROOFING OVER COVERBOARD & TAPERED INSULATION, RE: ROOF PLAN & DETAILS |
| 07.15 | EXTEND ROOFING MEMBRANE UP INSIDE FACE OF PARAPET WALL TO COPING, TYP |
| 08.06 | DOOR ASSEMBLY, RE: FLOOR PLAN & SCHED |
| 09.21 | CEMENT PLASTER OVER METAL STUD WALL, RE: EXT ELEV FOR FINISH |
| 09.22 | GYP BOARD HARDLID CEILING, RE: RCP |
| 09.24 | BOTTOM OF CEMENT PLASTER SOFFIT, RE: RCP |
| 10.75 | PRE-MANUFACTURED, ALUM, LOUVERED SCREEN, RE: SPEC |



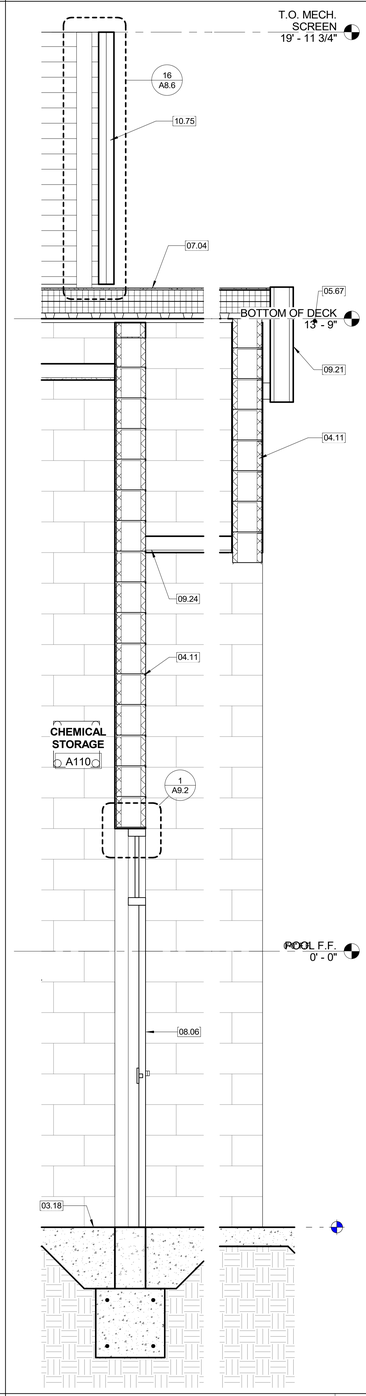

WALL SECTION - F 3/4" = 1'-0" 6



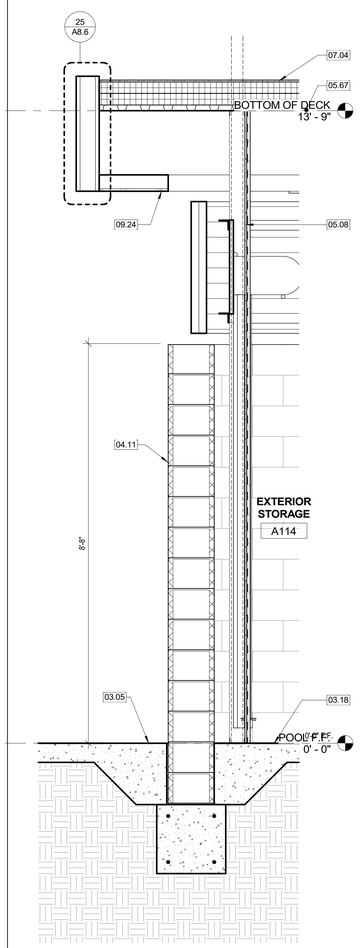

WALL SECTION - E 3/4" = 1'-0" 5



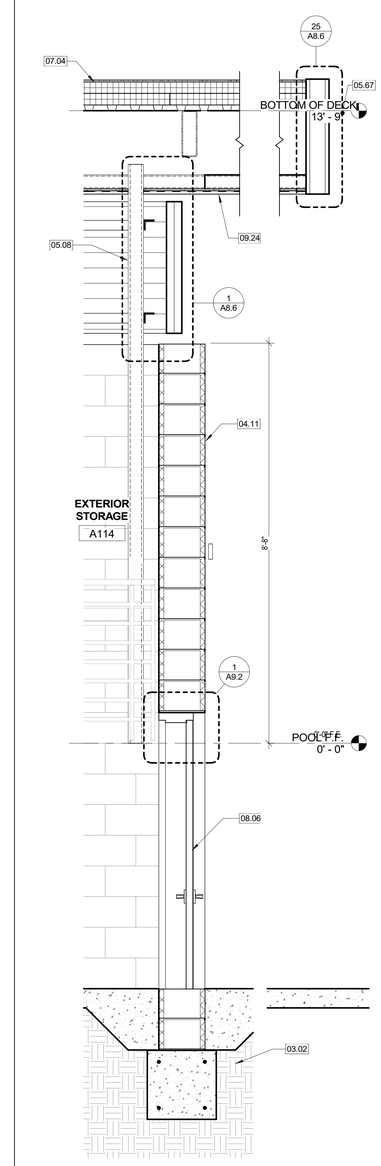

WALL SECTION - D 3/4" = 1'-0" 4




WALL SECTION - C 3/4" = 1'-0" 3




WALL SECTION - B 3/4" = 1'-0" 2




WALL SECTION - A 3/4" = 1'-0" 1

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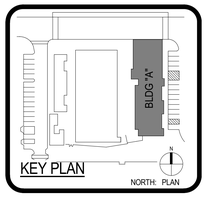
**CENTENNIAL HIGH SCHOOL**
**AQUATICS CENTER**

**PROJECT ADDRESS:**
1820 RIMPAU AVE.
CORONA, CA 92881

**CONSTRUCTION DOCUMENTS**
FILE #: **33-H4** DSA APPLICATION #: **04-122208**




Consultant

Architect

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| 5/5/2023 | 220306 |

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CONSTRUCTION DOCUMENTS

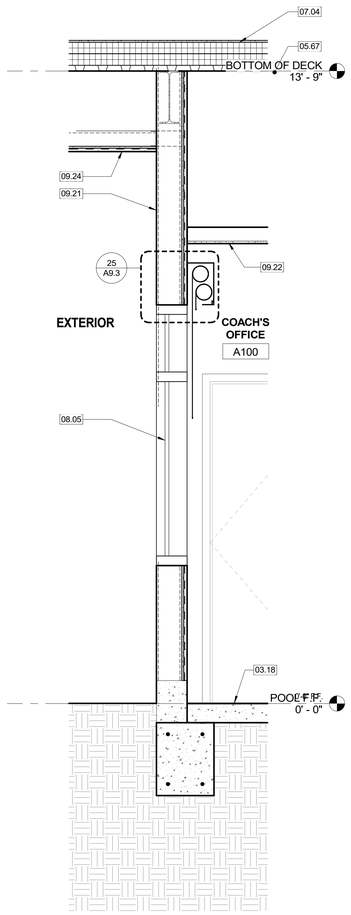
**WALL SECTIONS**

**A8.2**

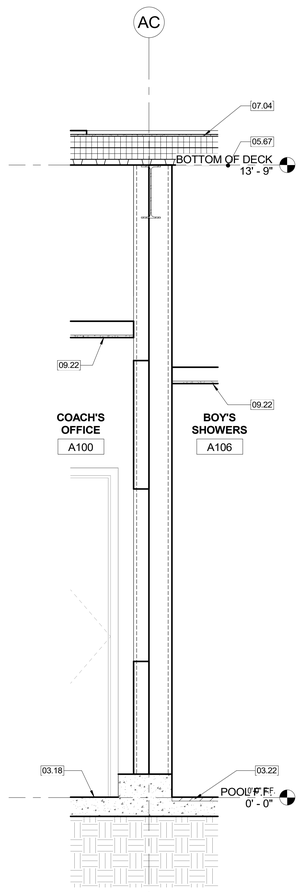
0" 1"

## CONSTRUCTION KEYED NOTES

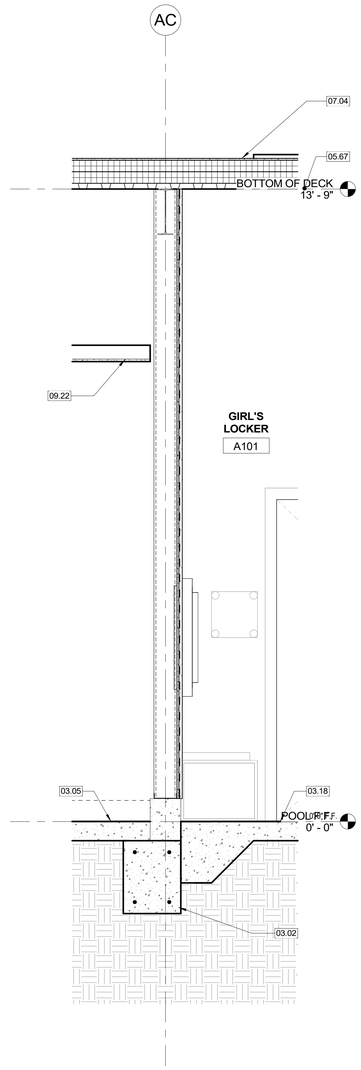
| # | Description |
|---|---|
| 03.02 | CONCRETE FOOTING, RE: STRUC |
| 03.05 | CONC POOL DECK, RE: AQUATICS |
| 03.18 | CONCRETE SLAB ON GRADE, RE: STRUC |
| 03.22 | DEPRESSED CONC SLAB ON GRADE, RE: ARCH'L SLAB PLAN & STRUC |
| 04.13 | TOP OF CMU PARAPET WALL, RE: ROOF PLAN |
| 05.07 | METAL STUD FURRING WALL, RE: FLOOR PLAN & WALL TYPES |
| 05.67 | TOP OF STEEL, RE: STRUC |
| 07.04 | CLASS 'A'ROOFING OVER COVERBOARD & TAPERED INSULATION, RE: ROOF PLAN & DETAILS |
| 07.15 | EXTEND ROOFING MEMBRANE UP INSIDE FACE OF PARAPET WALL TO COPING, TYP |
| 08.05 | WINDOW ASSEMBLY, RE: FLOOR PLAN & WINDOW TYPES |
| 09.20 | CEMENT PLASTER OVER CMU WALL, RE: EXT ELEV FOR FINISH |
| 09.21 | CEMENT PLASTER OVER METAL STUD WALL, RE: EXT ELEV FOR FINISH |
| 09.22 | GYP BOARD HARDLID CEILING, RE: RCP |
| 09.24 | BOTTOM OF CEMENT PLASTER SOFFIT, RE: RCP |
| 32.14 | CONC PAVING, RE: CIVIL |



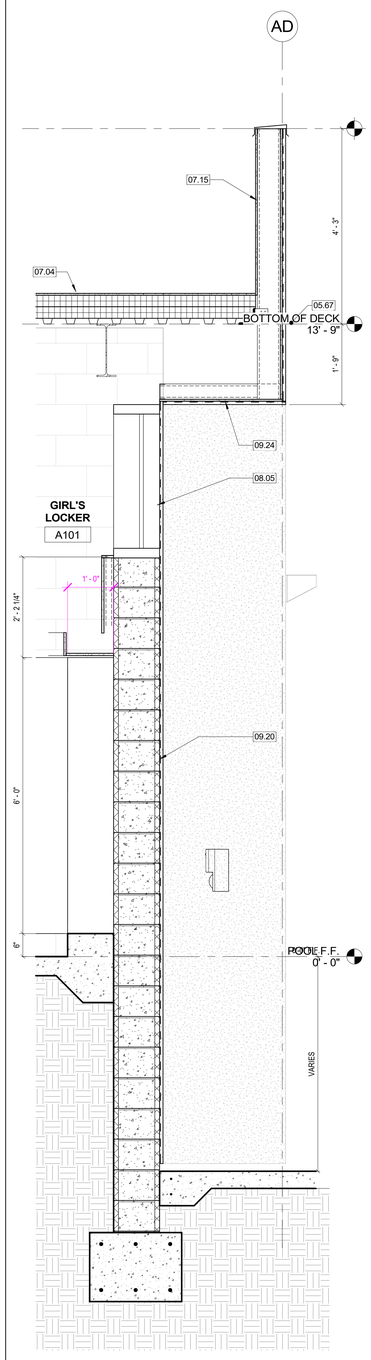

WALL SECTION - M 6
3/4" = 1'-0"



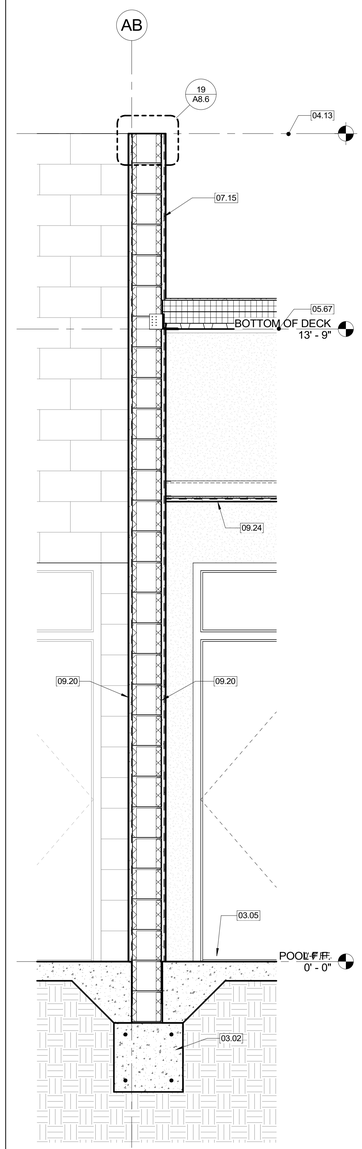

WALL SECTION - L 5
3/4" = 1'-0"



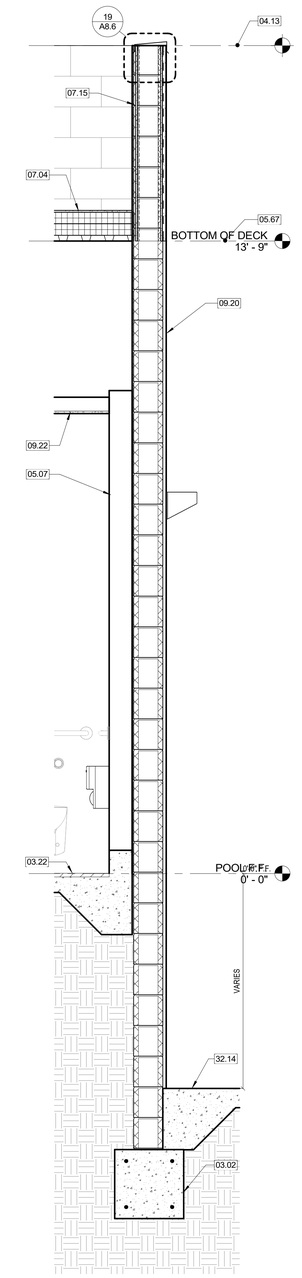

WALL SECTION - K 4
3/4" = 1'-0"




WALL SECTION - J 3
3/4" = 1'-0"




WALL SECTION - H 2
3/4" = 1'-0"




WALL SECTION - G 1
3/4" = 1'-0"

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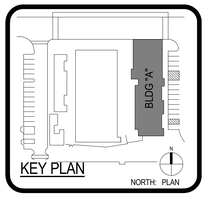
**CENTENNIAL HIGH SCHOOL**
**AQUATICS CENTER**

**PROJECT ADDRESS:**
1820 RIMPAU AVE.
CORONA, CA 92881

**CONSTRUCTION DOCUMENTS**
FILE #: **33-H4** DSA APPLICATION #: **04-122208**




Consultant

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**CONSTRUCTION DOCUMENTS**

**WALL SECTIONS**

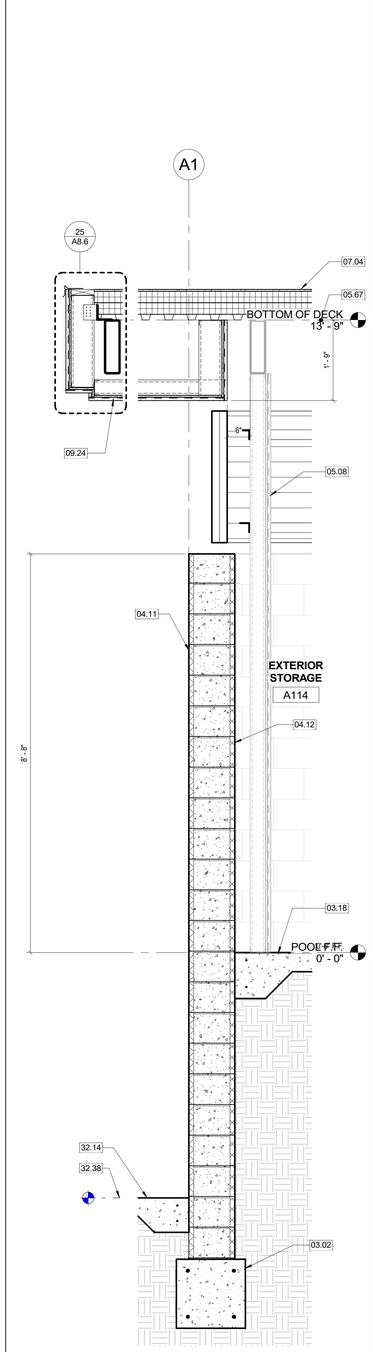
**A8.3**

A8.4 - WALL SECTIONS

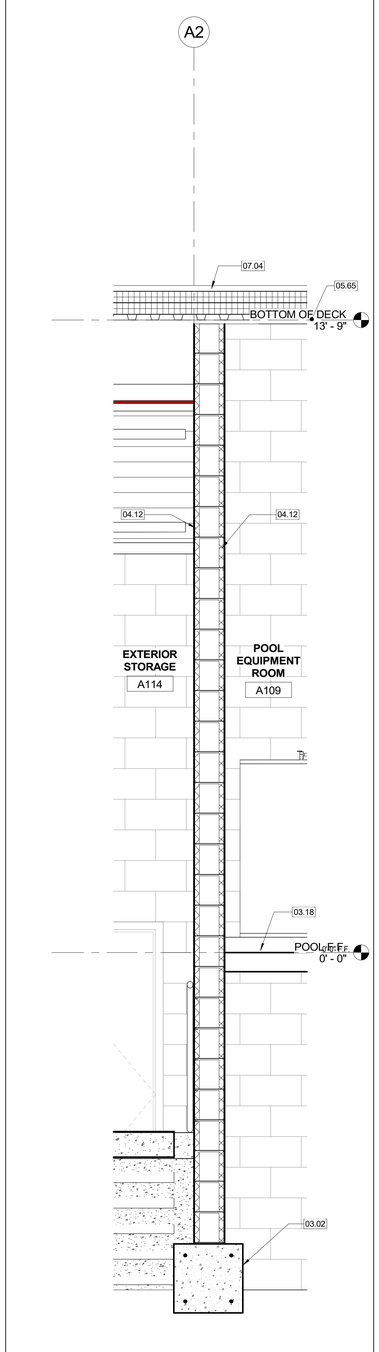
0" 1"

## CONSTRUCTION KEYED NOTES

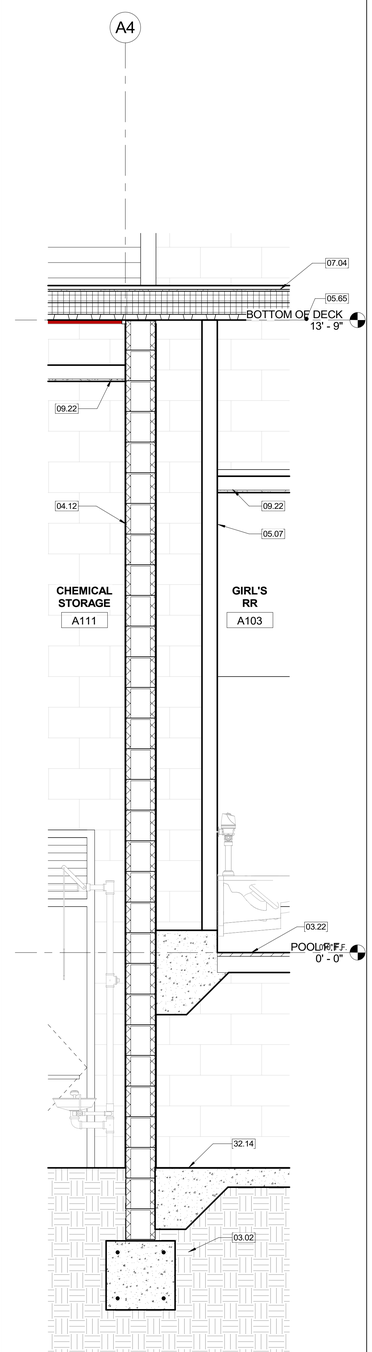
| # | Description |
|---|---|
| 03.02 | CONCRETE FOOTING, RE: STRUC |
| 03.18 | CONCRETE SLAB ON GRADE, RE: STRUC |
| 03.22 | DEPRESSED CONC SLAB ON GRADE, RE: ARCH'L SLAB PLAN & STRUC |
| 04.11 | EXPOSED EXTERIOR CMU WALL, RE: EXT ELEV FOR FINISH |
| 04.12 | EXPOSED INTERIOR CMU WALL |
| 04.13 | TOP OF CMU PARAPET WALL, RE: ROOF PLAN |
| 05.07 | METAL STUD FURRING WALL, RE: FLOOR PLAN & WALL TYPES |
| 05.08 | HSS COLUMN BEYOND |
| 05.65 | STRUCTURAL HSS COLUMN, SEE STRUCTURAL PLANS |
| 05.67 | TOP OF STEEL, RE: STRUC |
| 07.04 | CLASS 'A'ROOFING OVER COVERBOARD & TAPERED INSULATION, RE: ROOF PLAN & DETAILS |
| 07.15 | EXTEND ROOFING MEMBRANE UP INSIDE FACE OF PARAPET WALL TO COPING, TYP |
| 09.20 | CEMENT PLASTER OVER CMU WALL, RE: EXT ELEV FOR FINISH |
| 09.22 | GYP BOARD HARDLID CEILING, RE: RCP |
| 09.24 | BOTTOM OF CEMENT PLASTER SOFFIT, RE: RCP |
| 32.14 | CONC PAVING, RE: CIVIL |
| 32.38 | TOP OF EXTERIOR FINISHED SURFACE, RE: CIVIL |



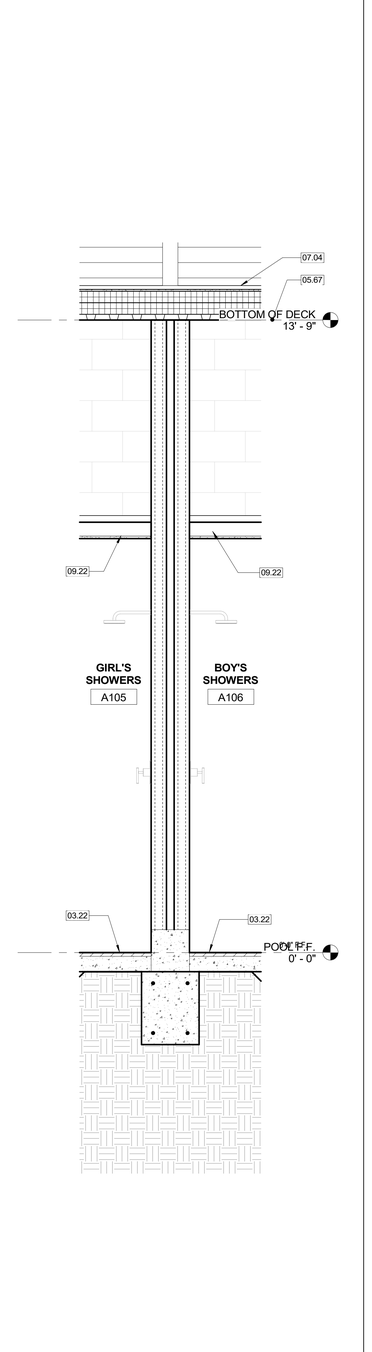

WALL SECTION - S 3/4" = 1'-0" **5**



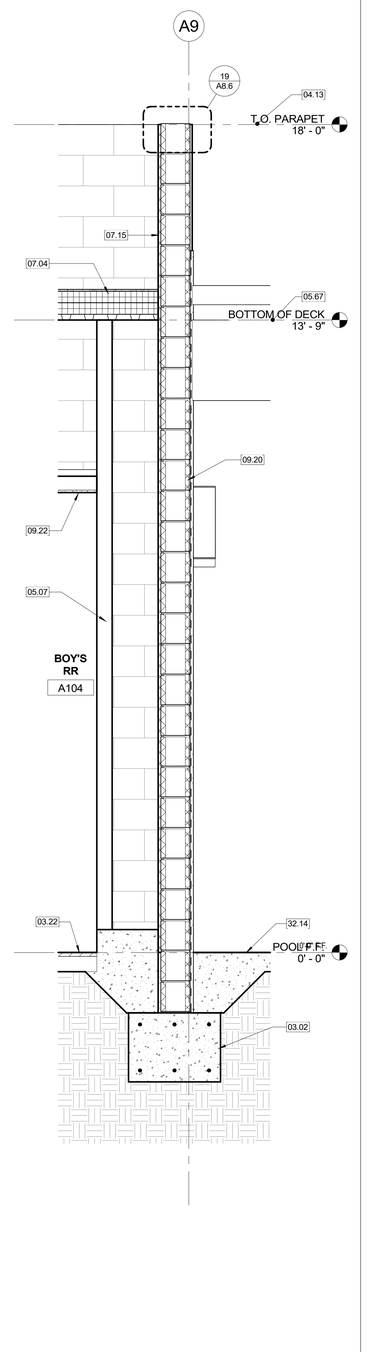

WALL SECTION - R 3/4" = 1'-0" **4**




WALL SECTION - Q 3/4" = 1'-0" **3**




WALL SECTION - P 3/4" = 1'-0" **2**




WALL SECTION - N 3/4" = 1'-0" **1**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**CENTENNIAL HIGH SCHOOL**
**AQUATICS CENTER**

**PROJECT ADDRESS:**
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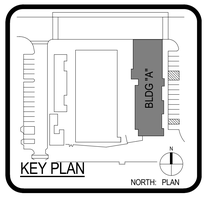
**CONSTRUCTION DOCUMENTS**
FILE #: **33-H4** DSA APPLICATION #: **04-122208**




Consultant

Architect

LICENSED ARCHITECT
David T. Blain
No. C-28454
REN. 11-30-2024
STATE OF CALIFORNIA

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| | | |

**CONSTRUCTION DOCUMENTS**

**WALL SECTIONS**

**A8.4**

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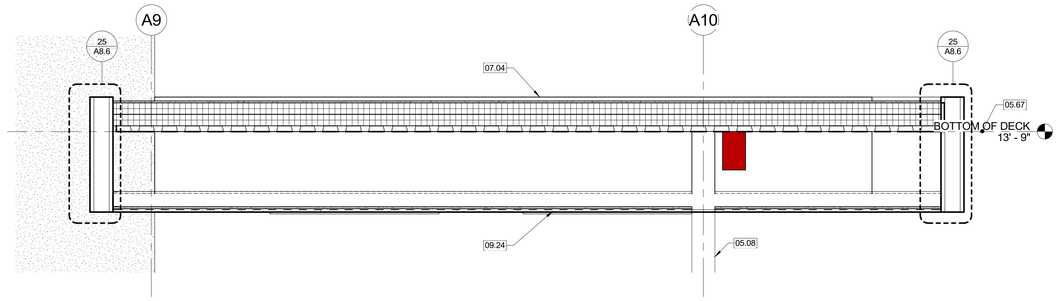
A8.5 - WALL SECTIONS

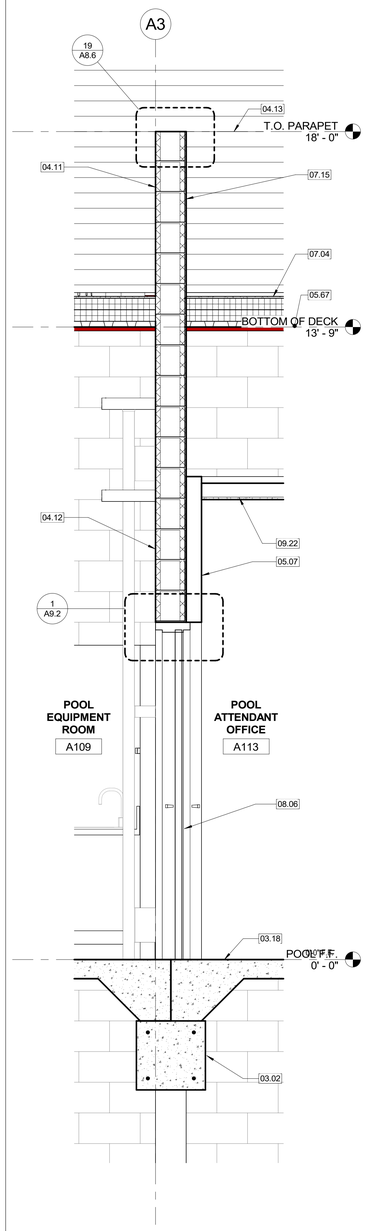
0" 1"



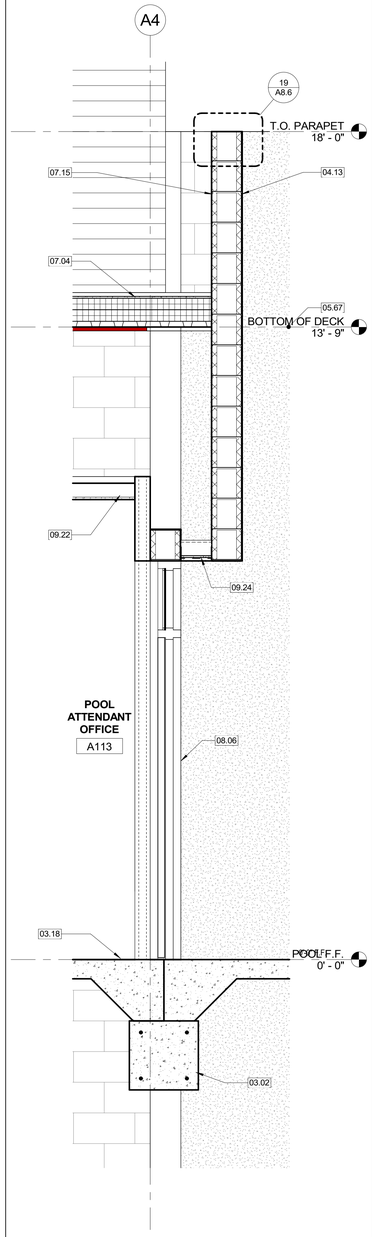

WALL SECTION - Z
3/4" = 1'-0"
26

## CONSTRUCTION KEYED NOTES

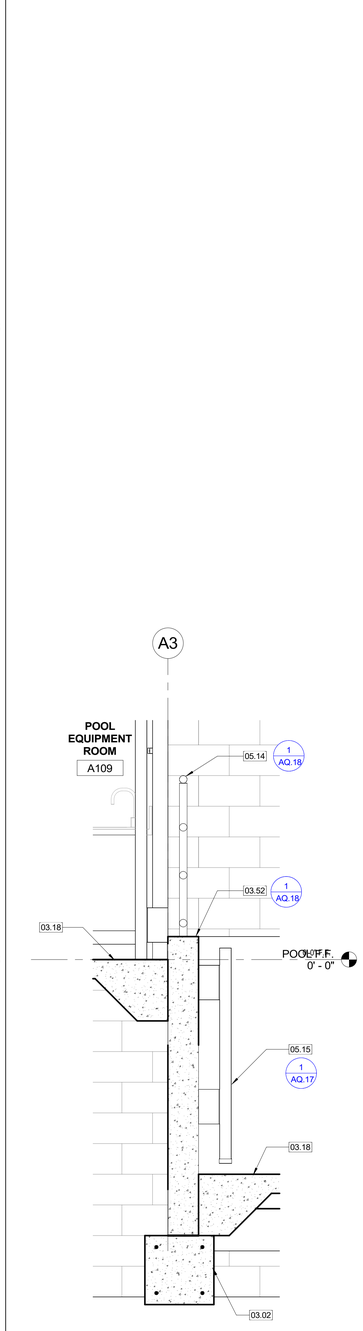
| # | Description |
|---|---|
| 03.02 | CONCRETE FOOTING, RE: STRUC |
| 03.05 | CONC POOL DECK, RE: AQUATICS |
| 03.18 | CONCRETE SLAB ON GRADE, RE: STRUC |
| 03.22 | DEPRESSED CONC SLAB ON GRADE, RE: ARCH'L SLAB PLAN & STRUC |
| 03.52 | TOP OF CONC PIT WALL CURB(S), RE: AQUATICS |
| 04.11 | EXPOSED EXTERIOR CMU WALL, RE: EXT ELEV FOR FINISH |
| 04.12 | EXPOSED INTERIOR CMU WALL |
| 04.13 | TOP OF CMU PARAPET WALL, RE: ROOF PLAN |
| 05.07 | METAL STUD FURRING WALL, RE: FLOOR PLAN & WALL TYPES |
| 05.08 | HSS COLUMN BEYOND |
| 05.14 | GALV PUMP PIT GUARDRAIL, RE: AQUATICS |
| 05.15 | STAINLESS STEEL PIT LADDER, RE: AQUATICS |
| 05.66 | TOP OF METAL STUD PARAPET WALL, RE: ROOF PLAN |
| 05.67 | TOP OF STEEL, RE: STRUC |
| 07.04 | CLASS 'A'ROOFING OVER COVERBOARD & TAPERED INSULATION, RE: ROOF PLAN & DETAILS |
| 07.15 | EXTEND ROOFING MEMBRANE UP INSIDE FACE OF PARAPET WALL TO COPING, TYP |
| 08.06 | DOOR ASSEMBLY, RE: FLOOR PLAN & SCHED |
| 09.21 | CEMENT PLASTER OVER METAL STUD WALL, RE: EXT ELEV FOR FINISH |
| 09.22 | GYP BOARD HARDLID CEILING, RE: RCP |
| 09.24 | BOTTOM OF CEMENT PLASTER SOFFIT, RE: RCP |
| 10.75 | PRE-MANUFACTURED, ALUM. LOUVERED SCREEN, RE: SPEC |
| 10.76 | TOP OF EQUIPMENT SCREEN, RE: ROOF PLAN |
| 22.15 | TRENCH DRAIN, RE: PLUMB |



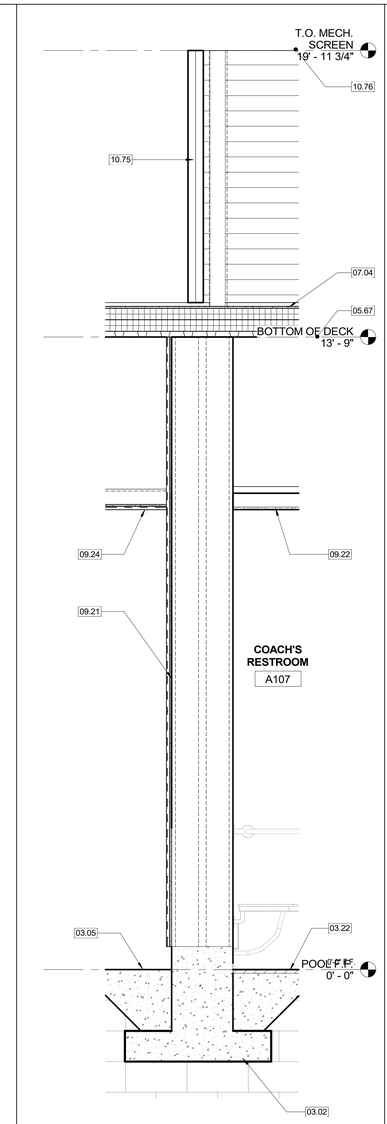

WALL SECTION - Y
3/4" = 1'-0"
6



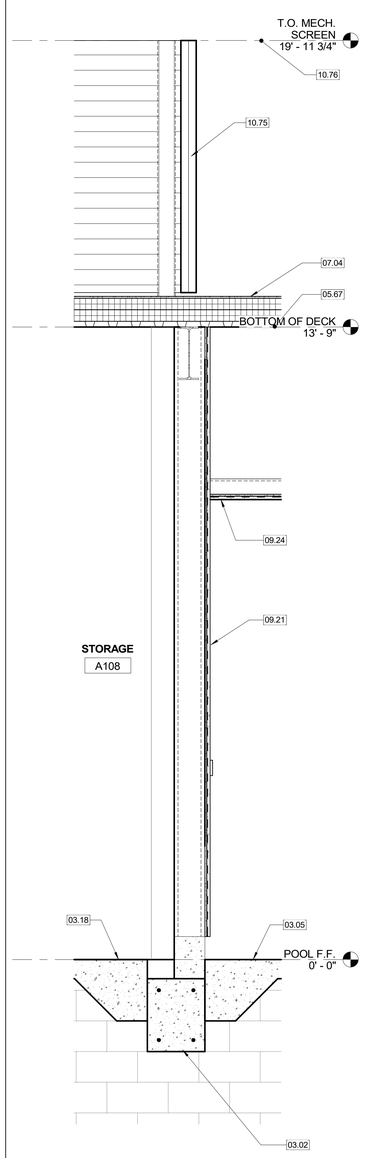

WALL SECTION - X
3/4" = 1'-0"
5



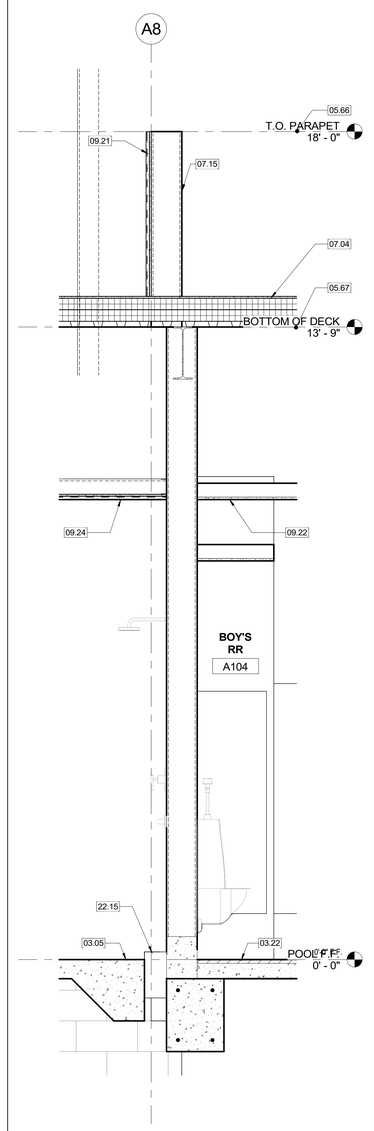

WALL SECTION - W
3/4" = 1'-0"
4




WALL SECTION - V
3/4" = 1'-0"
3




WALL SECTION - U
3/4" = 1'-0"
2




WALL SECTION - T
3/4" = 1'-0"
1

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PBK


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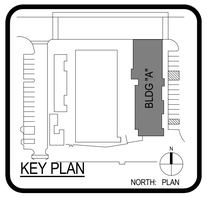
**CENTENNIAL HIGH SCHOOL**
**AQUATICS CENTER**

**PROJECT ADDRESS:**
1820 RIMPAU AVE.
CORONA, CA 92881

**CONSTRUCTION DOCUMENTS**
FILE #: **33-H4** DSA APPLICATION #: **04-122208**




Consultant

Architect




FOR PLAN CHECK ONLY

CLIENT
CNUSD

| DATE | PROJECT NUMBER |
|---|---|
| 5/5/2023 | 220306 |

REVISIONS

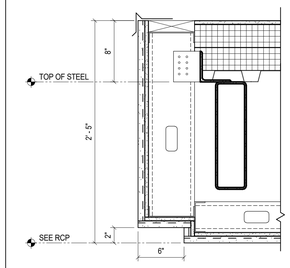
| No. | Description | Date |
|---|---|---|
| | | |

**CONSTRUCTION DOCUMENTS**

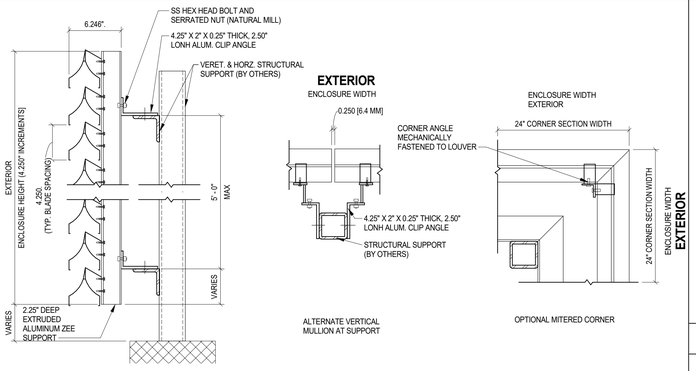
**WALL SECTIONS**

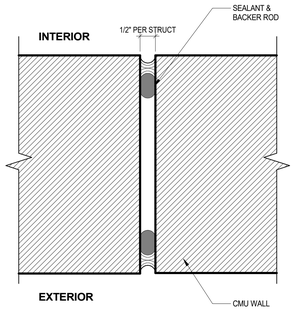
**A8.5**

0" 1"

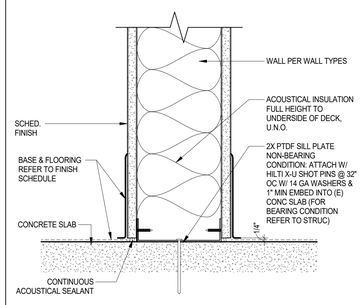



TYPICAL CANOPY EDGE 1 1/2" = 1'-0" **25**

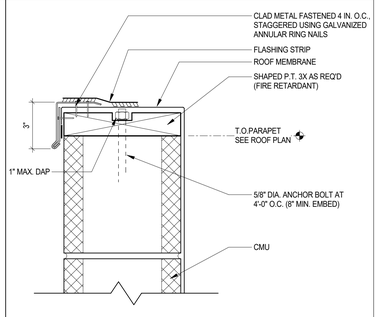


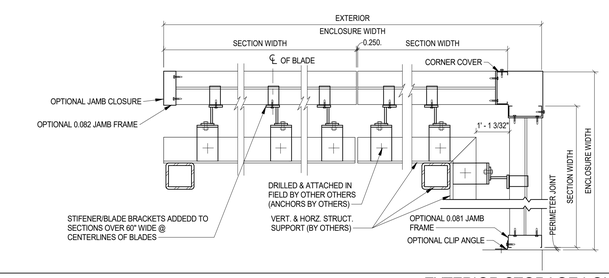

TYPICAL CMU JOINT 6" = 1'-0" **21**



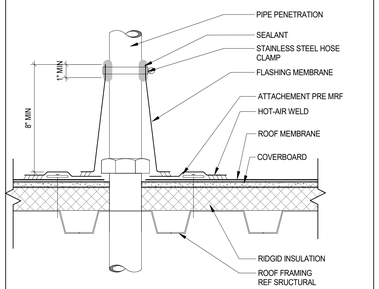

INTERIOR WALL BASE @ CONC. 3" = 1'-0" **20**



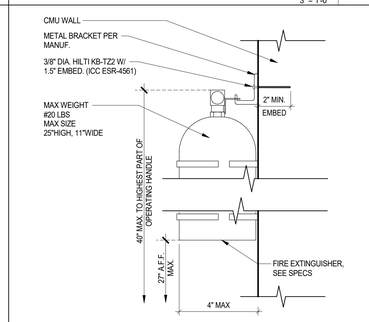

TYPICAL CMU JOINT Copy 1 3" = 1'-0" **19**



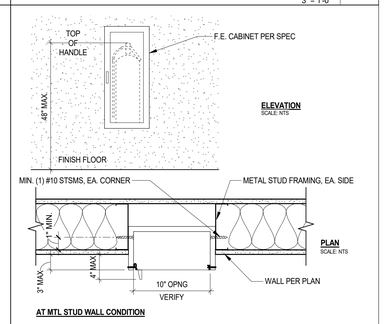

EXTERIOR STORAGE LOUVER 1/2" = 1'-0" **16**



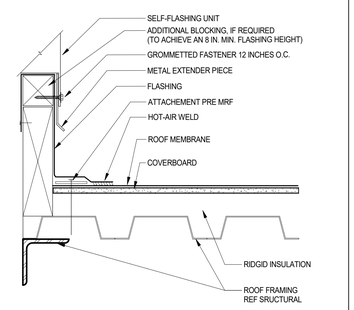

CONE FLASHING AT PENETRATION 3" = 1'-0" **15**



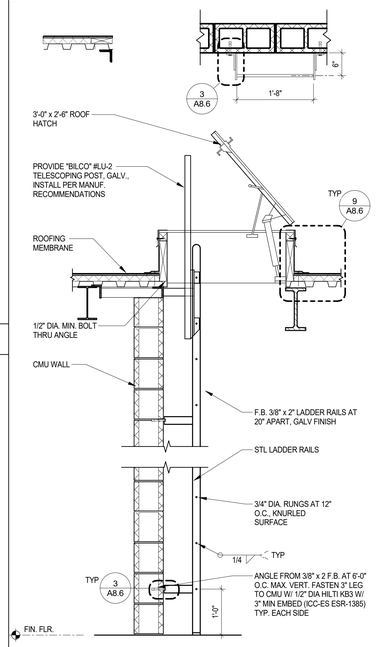

FIRE EXTINGUISHER SURFACE MOUNTED 3" = 1'-0" **14**



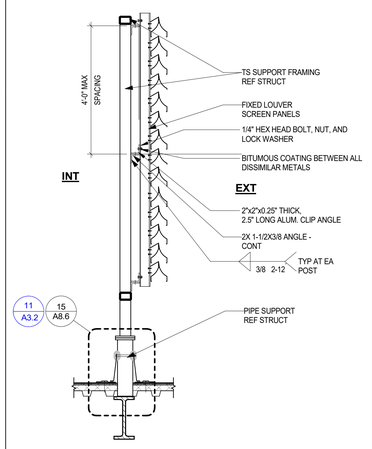

FIRE EXTINGUISHER CABINET 1 1/2" = 1'-0" **13**




CURB FLASHING AT LADDER 3" = 1'-0" **9**

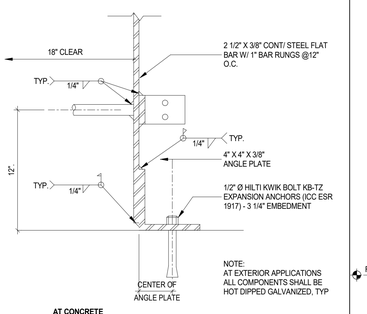



ROOF ACCESS LADDER 3/4" = 1'-0" **2**




NOTE: ALL EXPOSED SCREENWALL SUPPORT FRAMING SHALL BE HOT DIPPED GALV.

ROOFTOP LOUVER SCREEN DETAIL 3/4" = 1'-0" **1**




ROOF ACCESS LADDER ATTACHMENT 3" = 1'-0" **3**

PBK

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# CENTENNIAL HIGH SCHOOL AQUATICS CENTER

PROJECT ADDRESS:
1820 RIMPAU AVE.
CORONA, CA 92881

CONSTRUCTION DOCUMENTS
FILE #: 33-H4 DSA APPLICATION #: 04-122208




Consultant

Architect
LICENSED ARCHITECT
David T. Blain
No. C-26454
EXPIRES 11-30-2024
STATE OF CALIFORNIA
FOR PLAN CHECK ONLY

CLIENT
CNUSD

| DATE | PROJECT NUMBER |
|---|---|
| 5/5/2023 | 220306 |

REVISIONS

| No. | Description | Date |
|---|---|---|
| | | |

CONSTRUCTION DOCUMENTS

WALL - DETAILS

A8.6

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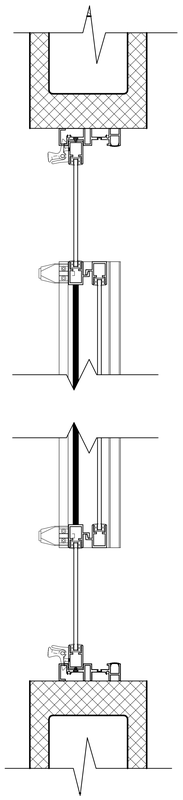
0" 1"



TRANSACTION WINDOW PLAN VIEW
3" = 1'-0"
**16**

## GATE SCHEDULE - SITE

| GATE # | SIZE W & H WIDTH | SIZE W & H HEIGHT | PANEL | DETAILS | MATERIAL | PANIC HARDWARE | HARDWARE GROUP | REMARKS |
|---|---|---|---|---|---|---|---|---|
| G001 | 3'-0" (EA.) | 8'-0" | DOUBLE PANEL | 5 / A0.6 | HM & STEEL | P.H. | 12.0 | REMOVABLE CENTER MULLION |
| G002 | 3'-0" (EA.) | 8'-0" | DOUBLE PANEL | 5 / A0.6 | HM & STEEL | P.H. | 12.0 | REMOVABLE CENTER MULLION |
| G003 | 3'-0" (EA.) | 8'-0" | DOUBLE PANEL | 5 / A0.6 | HM & STEEL | P.H. | 12.0 | REMOVABLE CENTER MULLION |
| G004 | 3'-0" (EA.) | 7'-0" | DOUBLE PANEL | 1 / A0.9 | STEEL | --- | --- | NON-ACCESSIBLE SERVICE GATE |
| G005 | 3'-0" | 7'-0" | SINGLE PANEL | 13 / A0.9 | STEEL | --- | --- | NON-ACCESSIBLE SERVICE GATE |
| G006 | 3'-0" (EA.) | 8'-0" | DOUBLE PANEL | 1 / A0.9 | HM & STEEL | P.H. | 12.0 | REMOVABLE CENTER MULLION |
| G007 | 3'-0" (EA.) | 8'-0" | DOUBLE PANEL | 5 / A0.6 | HM & STEEL | P.H. | 12.0 | REMOVABLE CENTER MULLION |
| G008 | 15'-6" (EA.) | 3'-6" | DOUBLE PANEL | 17 / A0.4 | STEEL | --- | --- | VEHICULAR GATE |

## DOOR SCHEDULE - BUILDING A

| MARK | DOOR TYPE | DOOR PAIR/SINGLE | DOOR SIZE W x H W | DOOR SIZE W x H H | DOOR MATL | DOOR FINISH | FRAME TYPE | FRAME SIZE W x H W | FRAME SIZE W x H H | FRAME MATL. | FRAME FINISH | DETAILS SILL | DETAILS JAMB | DETAILS HEAD | H.W. | PANIC HARDWARE | FIRE RATING LABEL | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A100 | F | SINGLE | 3' - 0" | 7' - 0" | HM | P | 4 | 3' - 4" | 8' - 8" | HM | P | 5/A9.2 | 9&10/A9.2 | 8/A9.2 | 6.0 | | | |
| A100B | F | SINGLE | 3' - 0" | 7' - 0" | HM | P | 1 | 3' - 4" | 7' - 2" | HM | P | -- | 20/A9.2 | 20/A9.2 | 9.0 | | 20 | |
| A100C | F | SINGLE | 3' - 0" | 7' - 0" | HM | P | 1 | 3' - 4" | 7' - 2" | HM | P | -- | 20/A9.2 | 20/A9.2 | 9.0 | | 20 | |
| A101 | F | SINGLE | 3' - 8" | 7' - 0" | HM | P | 1 | 4' - 0" | 7' - 2" | HM | P | 4/A9.2 | 9&10/A9.2 | 8/A9.2 | 7.0 | | | |
| A102 | F | SINGLE | 3' - 8" | 7' - 0" | HM | P | 1 | 4' - 0" | 7' - 2" | HM | P | 4/A9.2 | 9&10/A9.2 | 8/A9.2 | 7.0 | | | |
| A103A | F | SINGLE | 3' - 8" | 7' - 0" | HM | P | 6 | 4' - 0" | 8' - 8" | HM | P | 4/A9.2 | 9&10/A9.2 | 8/A9.2 | 1.0 | | | |
| A103B | F | SINGLE | 3' - 4" | 7' - 0" | HM | P | 1 | 0' - 0" | 0' - 0" | HM | P | -- | 20/A9.2 | 20/A9.2 | 8.0 | | | |
| A104A | F | SINGLE | 3' - 8" | 7' - 0" | HM | P | 6 | 4' - 0" | 8' - 8" | HM | P | 4/A9.2 | 9&10/A9.2 | 8/A9.2 | 1.0 | | | |
| A104B | F | SINGLE | 3' - 4" | 7' - 0" | HM | P | 1 | 0' - 0" | 0' - 0" | HM | P | -- | 20/A9.2 | 20/A9.2 | 8.0 | | | |
| A107 | F | SINGLE | 3' - 0" | 7' - 0" | HM | P | 1 | 3' - 4" | 7' - 2" | HM | P | 4/A9.2 | 20/A9.2 | 20/A9.2 | 10.0 | | | |
| A108 | F | SINGLE | 3' - 0" | 7' - 0" | HM | P | 1 | 3' - 4" | 7' - 2" | HM | P | 5/A9.2 | 9&10/A9.2 | 8/A9.2 | 3.0 | | | |
| A109A | D | PAIR | 3' - 2" | 7' - 0" | HM | P | 5 | 3' - 4" | 8' - 8" | HM | P | 5/A9.2 | 2/A9.2 | 1/A9.2 | 2.0 | | | |
| A109B | F | SINGLE | 3' - 0" | 7' - 2" | HM | P | 1 | 3' - 4" | 7' - 4" | HM | P | 5/A9.2 | 2/A9.2 | 1/A9.2 | 5.0 | | | |
| A110 | D | PAIR | 3' - 2" | 7' - 0" | HM | P | 5 | 3' - 4" | 8' - 8" | HM | P | 5/A9.2 | 2/A9.2 | 1/A9.2 | 2.0 | | | |
| A111 | D | PAIR | 3' - 2" | 7' - 0" | HM | P | 5 | 3' - 4" | 8' - 8" | HM | P | 5/A9.2 | 2/A9.2 | 1/A9.2 | 2.0 | | | |
| A112 | F | SINGLE | 3' - 0" | 7' - 0" | HM | P | 6 | 3' - 4" | 8' - 8" | HM | P | 5/A9.2 | 2/A9.2 | 1/A9.2 | 3.0 | | | |
| A113A | F | SINGLE | 3' - 0" | 7' - 0" | HM | P | 4 | 3' - 4" | 8' - 8" | HM | P | 5/A9.2 | 7/A9.2 | 6/A9.2 | 6.0 | | | |
| A113B | F | SINGLE | 3' - 0" | 7' - 2" | HM | P | 1 | 3' - 4" | 7' - 4" | HM | P | 3/A9.2 | 7/A9.2 | 6/A9.2 | 8.0 | | 90 | |
| A114A | F | SINGLE | 3' - 0" | 7' - 2" | HM | P | 1 | 3' - 4" | 7' - 4" | HM | P | 5/A9.2 | 2/A9.2 | 1/A9.2 | 4.0 | | | |
| A114B | R | SINGLE | 8' - 0" | 9' - 0" | ST | FF | N/A | 8' - 4" | 9' - 0" | N/A | FF | -- | 19/A9.3 | 19/A9.3 | -- | | | |

## DOOR SCHEDULE - BUILDING B

| MARK | DOOR TYPE | DOOR PAIR/SINGLE | DOOR SIZE W x H W | DOOR SIZE W x H H | DOOR MATL | DOOR FINISH | FRAME TYPE | FRAME SIZE W x H W | FRAME SIZE W x H H | FRAME MATL. | FRAME FINISH | DETAILS SILL | DETAILS JAMB | DETAILS HEAD | H.W. | PANIC HARDWARE | FIRE RATING LABEL | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B100A | FT | SINGLE | 3' - 0" | 7' - 0" | HM | P | 4 | 3' - 4" | 8' - 8" | HM | P | 5/A9.2 | 7/A9.2 | 6/A9.2 | 6.0 | | NO | TRANSOM DOOR |
| B101 | F | SINGLE | 3' - 0" | 7' - 0" | HM | P | 6 | 3' - 4" | 8' - 8" | HM | P | 5/A9.2 | 2/A9.2 | 1/A9.2 | 3.0 | | NO | TRANSOM DOOR |
| B102 | F | SINGLE | 3' - 0" | 7' - 0" | HM | P | 6 | 3' - 4" | 8' - 8" | HM | P | 4/A9.2 | 7/A9.2 | 6/A9.2 | 1.0 | | NO | TRANSOM DOOR |
| B103 | F | SINGLE | 3' - 0" | 7' - 0" | HM | P | 6 | 3' - 4" | 8' - 8" | HM | P | 4/A9.2 | 7/A9.2 | 6/A9.2 | 1.0 | | NO | TRANSOM DOOR |

GATE & DOOR SCHEDULE - SITE, BLDG A & B
NOT TO SCALE
**14**

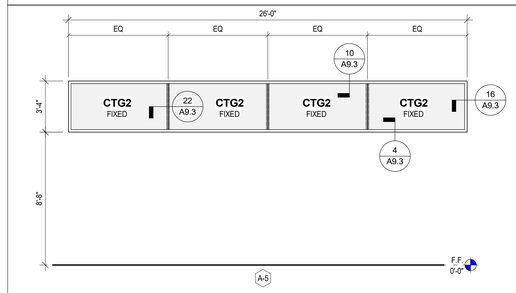
## ELEVATION ABBREVIATIONS

DOOR AND WINDOW :

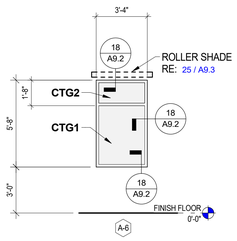
| | |
|---|---|
| ALUM | ALUMINUM |
| CTG1 | GLAZING - 1" CLEAR, TEMPERED, INSULATED GLASS (EXTERIOR) |
| CTG2 | 1/4" CLEAR TEMPERED GLASS (INTERIOR) |
| SP | SPANDREL GLASS |
| FF | FACTORY FINISH |
| HM | HOLLOW METAL |
| N/A | NOT APPLICABLE |
| P | PAINT |
| WD | WOOD |
| HG | HALF GLASS |
| F | FLUSH |
| N | NARROW VISION PANEL |
| FG | FULL GLASS |
| FL | FLUSH WITH LOUVER |

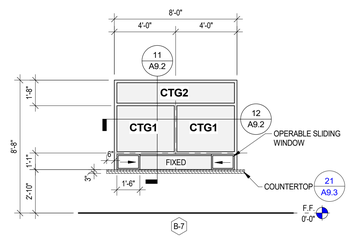
**NOTES:**
1. ALL DOORS W/O PANIC HARDWARE SHALL HAVE ACCESSIBLE LEVER HARDWARE.
2. EXIT DOORS SHAL BE OPENABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPCIAL KNOWLEDGE OR EFFORT.
3. CONTRACTOR SHALL FIELD MEASURE ALL OPENINGS BEFORE FABRICATION.
4. PROVIDE TEMPERED GLAZING AT ALL DOOR LOCATIONS.
5. ALL WINDOWSS WITHIN 24" OF DOOR OR 18" FROM GROUND PLANE SHALL HAVE TEMPERED GLAZING.
6. REFER TO ELECRICAL DRAWINGS FOR CARD READER/ACCESS CONRTOL WIRING.
7. REFER TO DOOR HARDWARE SPECIFICAIONS FOR ALL DOOR HARDWARE REQUIREMENTS.
8. MAXIMIM EFFORT TO OPERATE DOOR SHALL NOT EXCEED THE FOLLOWING
   A. INTERIOR DOORS: 5LBS
   B. EXTERIOR DOORS: 5 LBS

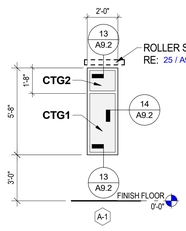
## GENERAL NOTES

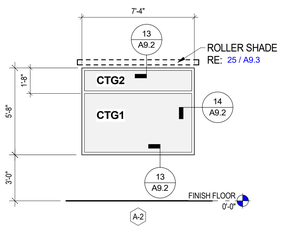


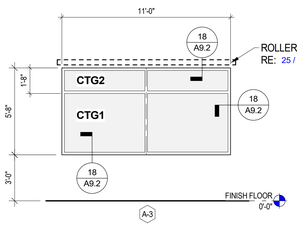

**ARCADIA T500 (OPG1500)**
**2 1/4" X 5 1/2" OFFSET**
**THERMAL W/ 1" GLASS**

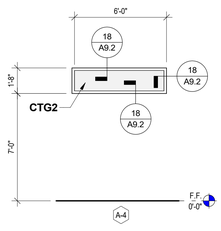


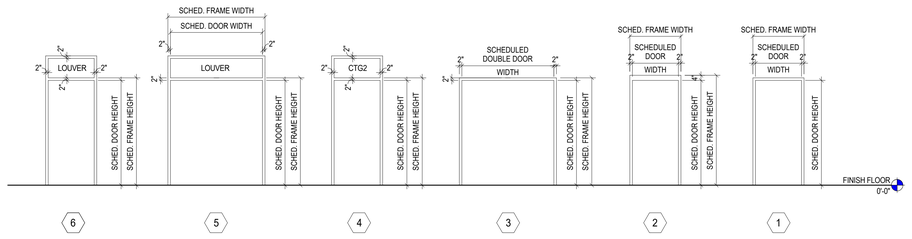



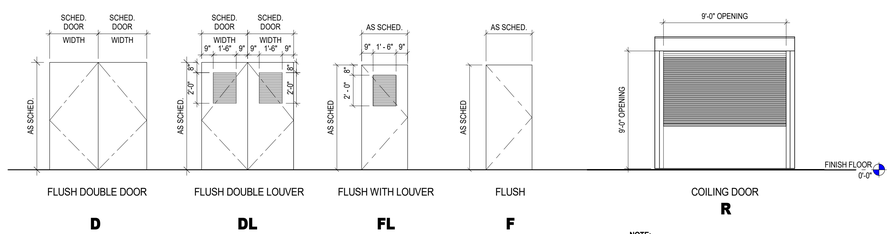




WINDOW ELEVATIONS - BLDG A & B
1/4" = 1'-0"
**4**




DOOR FRAMES - BLDG A & B
1/4" = 1'-0"
**8**




**NOTE:**
- REFER TO FOR ROLLING COUNTER DOOR ELEVATION & SECTIONS
- REFER TO FOR ROLLING COUNTER DOOR MOUNTING DETAILS
- REFET TO FOR LOCATIONS ON THE FLOOR PLAN

DOOR ELEVATIONS - BLDG A & B
1/4" = 1'-0"
**1**

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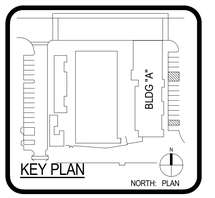
**CENTENNIAL HIGH SCHOOL**
**AQUATICS CENTER**

**PROJECT ADDRESS:**
1820 RIMPAU AVE.
CORONA, CA 92881

**CONSTRUCTION DOCUMENTS**
FILE #: **23-H4** DSA APPLICATION #: **04-122208**

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| DATE | PROJECT NUMBER |
|---|---|
| 5/5/2023 | 220306 |

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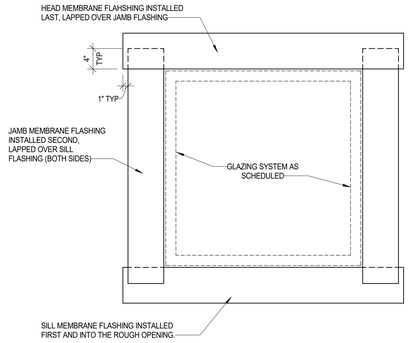
| No. | Description | Date |
|---|---|---|

**CONSTRUCTION DOCUMENTS**

**DOORS & WINDOWS - FRAMES, ELEVATIONS & SCHEDULES**

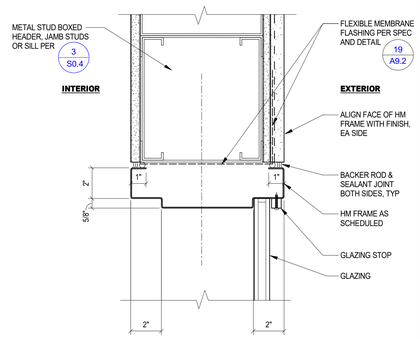
**A9.1**

0" 1"

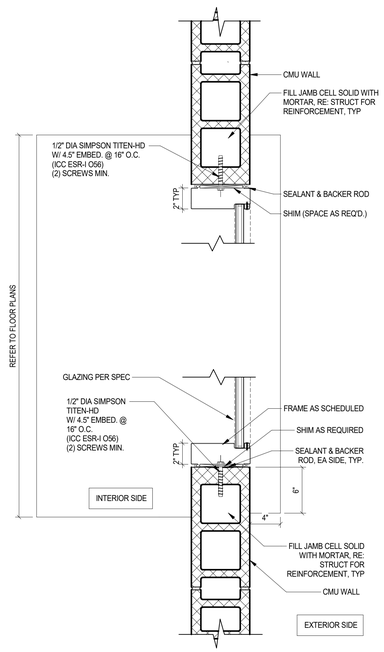



**NOTE:**
PRIOR TO INSTALLATION OF WINDOW FRAME, INSTALL FLEXIBLE SELF-ADHERED FLASHING INTO THE ROUGH OPENING AT HEAD, JAMB AND SILL LOCATIONS.

WINDOW FLASHING @ METAL STUD **19**
1" = 1'-0"

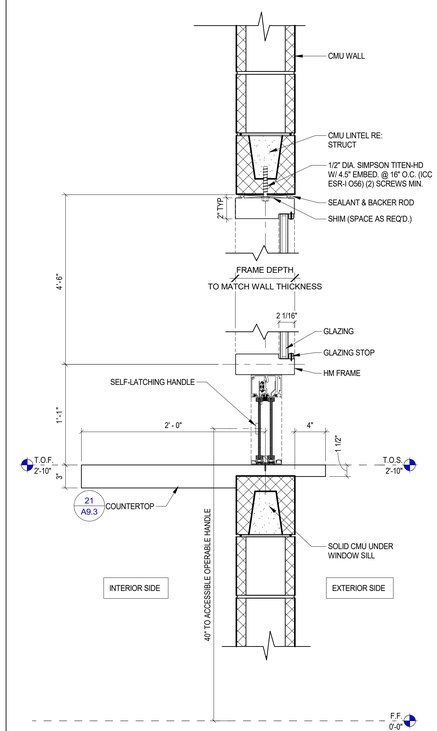



WINDOW @ MTL STUD - HEAD (JAMB & SILL SIM) **18**
3" = 1'-0"



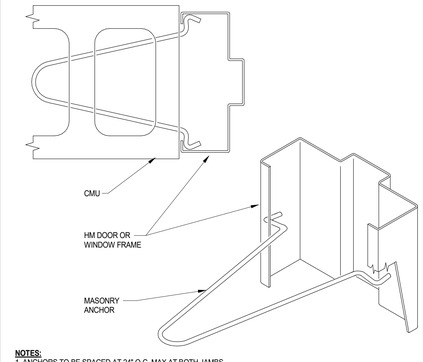

TRANSACTION WINDOW - JAMB
1 1/2" = 1'-0"

**12**




TRANSACTION WINDOW - HEAD & SILL
1 1/2" = 1'-0"

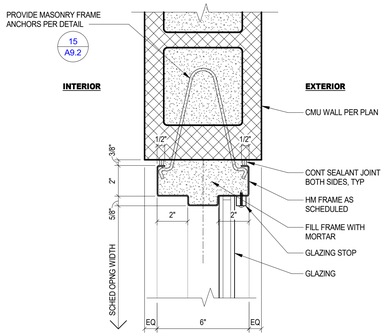
**11**




**NOTES:**
1. ANCHORS TO BE SPACED AT 24" O.C. MAX AT BOTH JAMBS
2. QUANTITY PER SPEC; MIN (3) ANCHORS PER FRAME

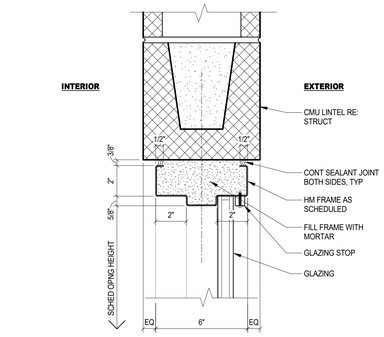
WIRE MASONRY ANCHOR
1 1/2" = 1'-0"

**15**



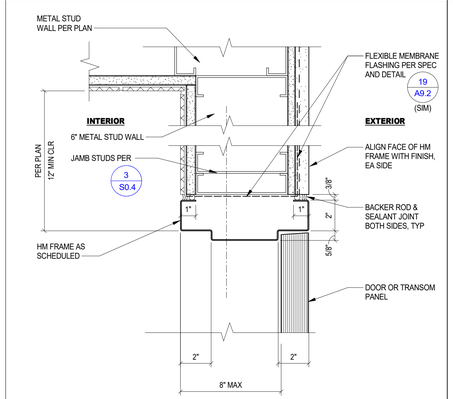

WINDOW @ CMU - JAMB
3" = 1'-0"

**14**



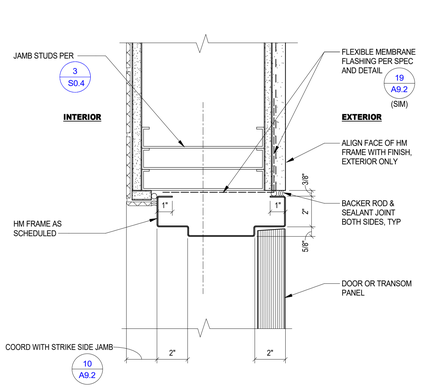

WINDOW @ CMU - HEAD (SILL SIM)
3" = 1'-0"

**13**



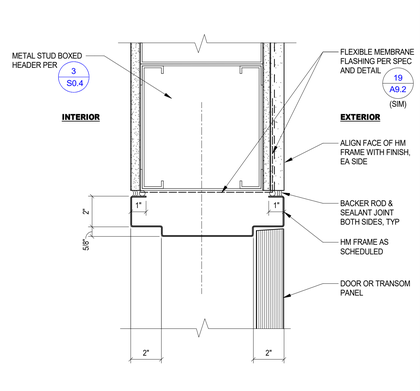

HM DOOR @ MTL STUD - STRIKE SIDE JAMB
3" = 1'-0"

**10**



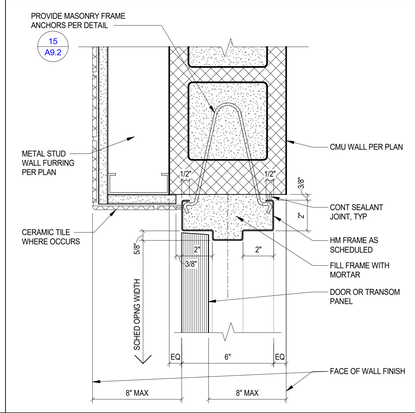

HM DOOR @ MTL STUD - HINGE SIDE JAMB
3" = 1'-0"

**9**



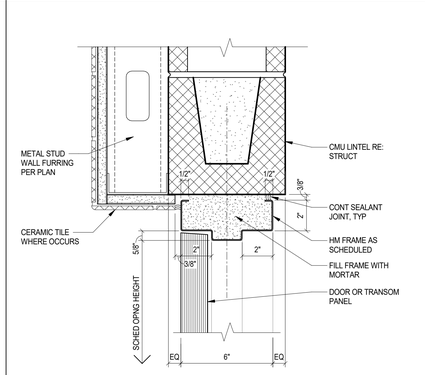

HM DOOR @ MTL STUD - HEAD
3" = 1'-0"

**8**



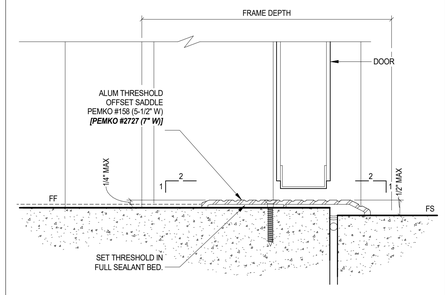

HM FRAME @ FURRED CMU WALL - JAMB
3" = 1'-0"

**7**



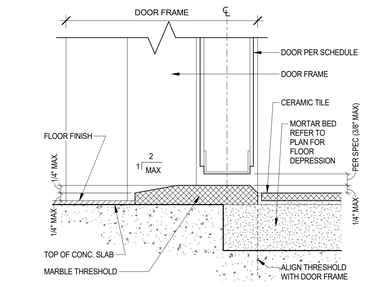

HM FRAME @ FURRED CMU WALL - HEAD
3" = 1'-0"

**6**



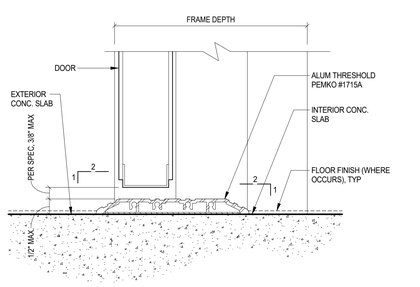

DOOR SILL - EXTERIOR
6" = 1'-0"

**5**



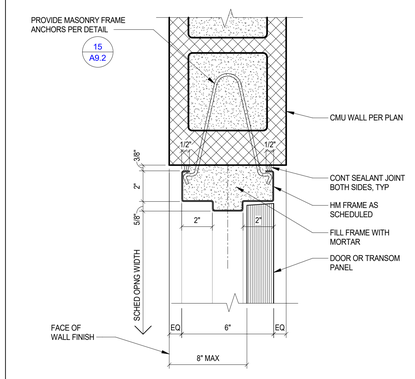

DOOR SILL - MARBLE THRESHOLD
6" = 1'-0"

**4**



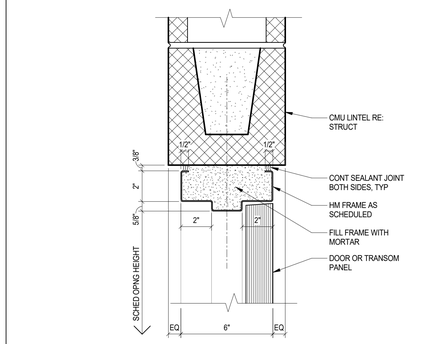

DOOR SILL - INTERIOR
6" = 1'-0"

**3**




HM FRAME @ CMU - JAMB
3" = 1'-0"

**2**




HM FRAME @ CMU - HEAD
3" = 1'-0"

**1**

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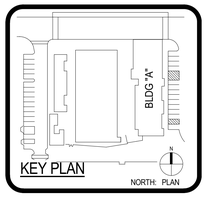
**CENTENNIAL HIGH SCHOOL AQUATICS CENTER**

**PROJECT ADDRESS:**
1820 RIMPAU AVE
CORONA, CA 92881

**CONSTRUCTION DOCUMENTS**
FILE #: **33-H4** DSA APPLICATION #: **04-122208**

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| 5/5/2023 | 220306 |

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**CONSTRUCTION DOCUMENTS**

**DOORS & WINDOWS - DETAILS**

**A9.2**

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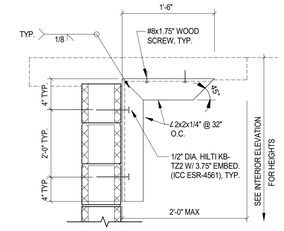
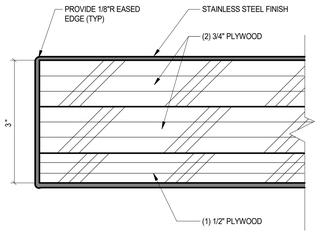
5/17/2023 6:07:48 PM

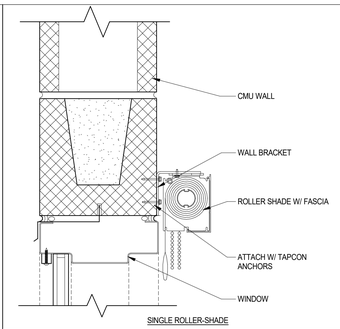
0" 1"

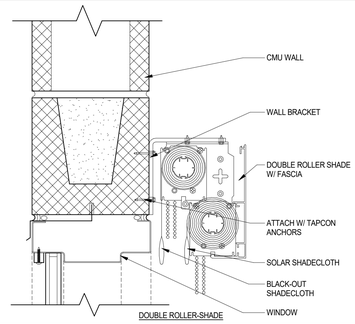



COUNTER SUPPORT - SECTION 28
1" = 1'-0"

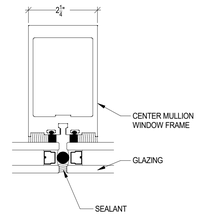



SS COUNTERTOP EDGE DETAIL 27
12" = 1'-0"

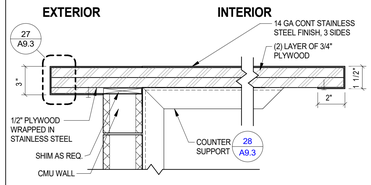


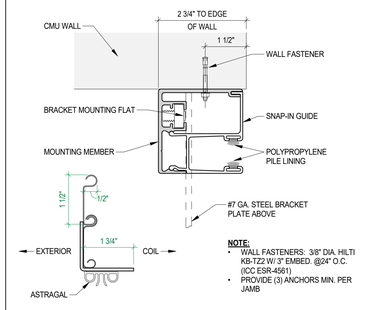

ROLLER SHADE DETAIL 25
3" = 1'-0"



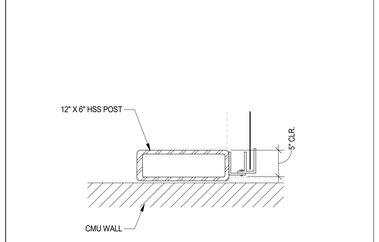

LOCKERS WINDOW JAMB MULLION DETAIL 22
6" = 1'-0"



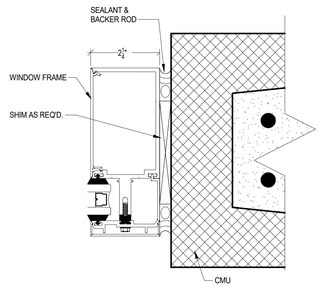

PASS THRU WINDOW - SILL 21
1" = 1'-0"



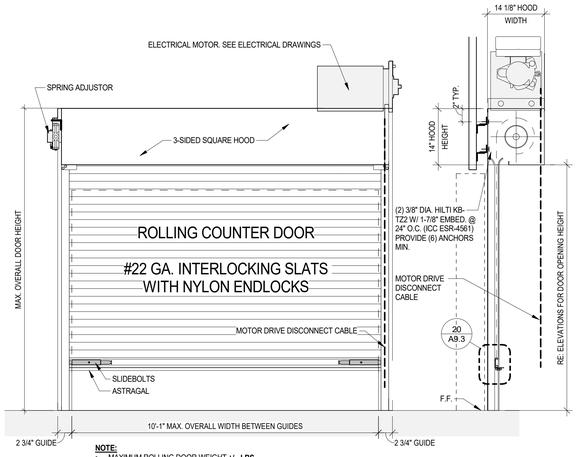

ROLLUP DOOR TRACK 20
6" = 1'-0"

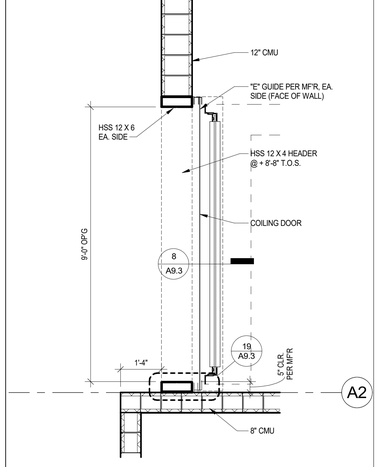



HSS 12 X 6 19
1 1/2" = 1'-0"



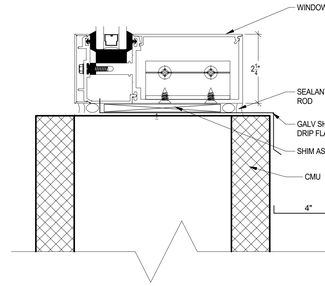

LOCKERS WINDOW JAMB DETAIL 16
6" = 1'-0"




COOKSON: MODEL # ESD 10
9' - W. X 8'-4" H.

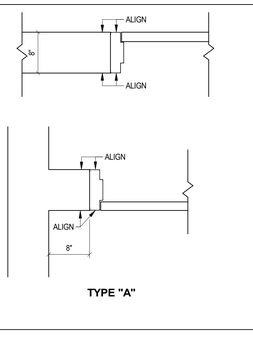
COILING DOOR @ POOL EQUIP. STORAGE 7
1/2" = 1'-0"




LOCKERS WINDOW SILL DETAIL 4
6" = 1'-0"




LOCKERS WINDOW HEAD DETAIL 10
6" = 1'-0"




ROLLUP DOOR ELEV. & SECTION 8
1/2" = 1'-0"

DOOR OPENING TYPES 1
1" = 1'-0"

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P 909-987-0909

**CENTENNIAL HIGH SCHOOL AQUATICS CENTER**

PROJECT ADDRESS:
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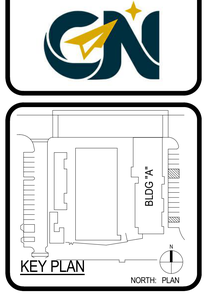
CORONA, CA 92881

CONSTRUCTION DOCUMENTS
FILE #: 33-H4 DSA APPLICATION #: 04-122208




Consultant

Architect

LICENSED ARCHITECT
David T. Blain
No. C-28454
EXPIRES: 11-30-2024
STATE OF CALIFORNIA

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|---|---|
| 5/5/2023 | 220306 |

REVISIONS

| No. | Description | Date |
|---|---|---|
| | | |

CONSTRUCTION DOCUMENTS

**DOORS & WINDOWS - DETAILS**

**A9.3**

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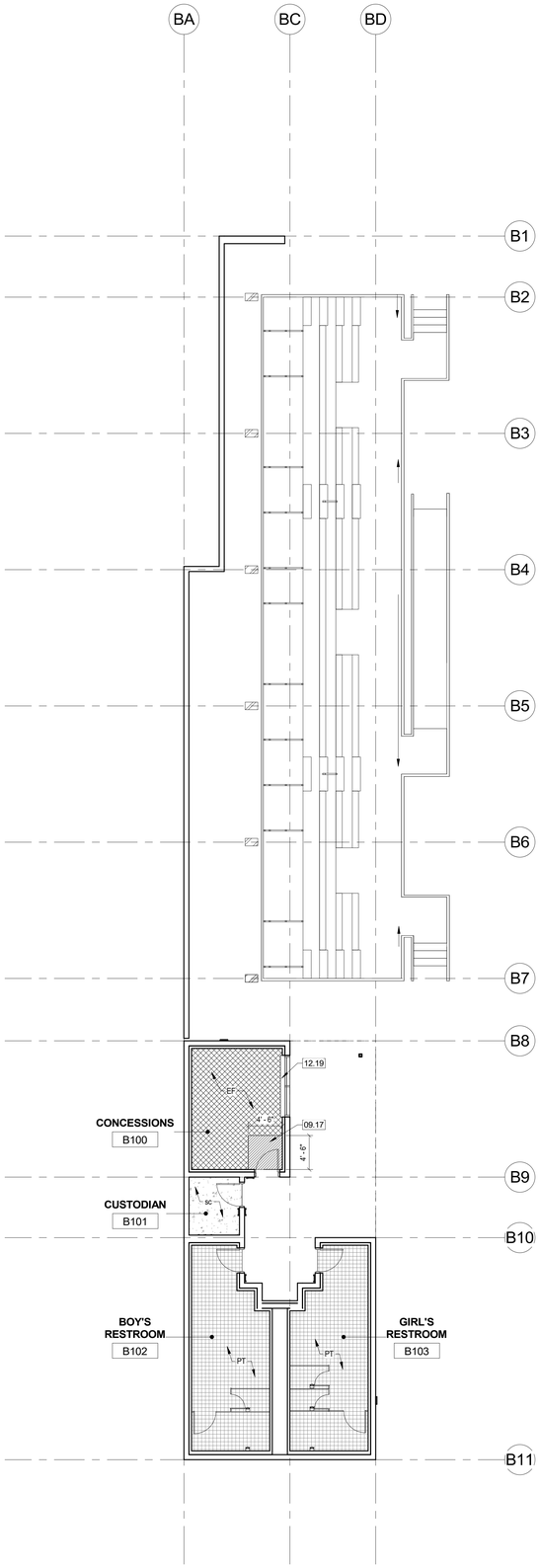
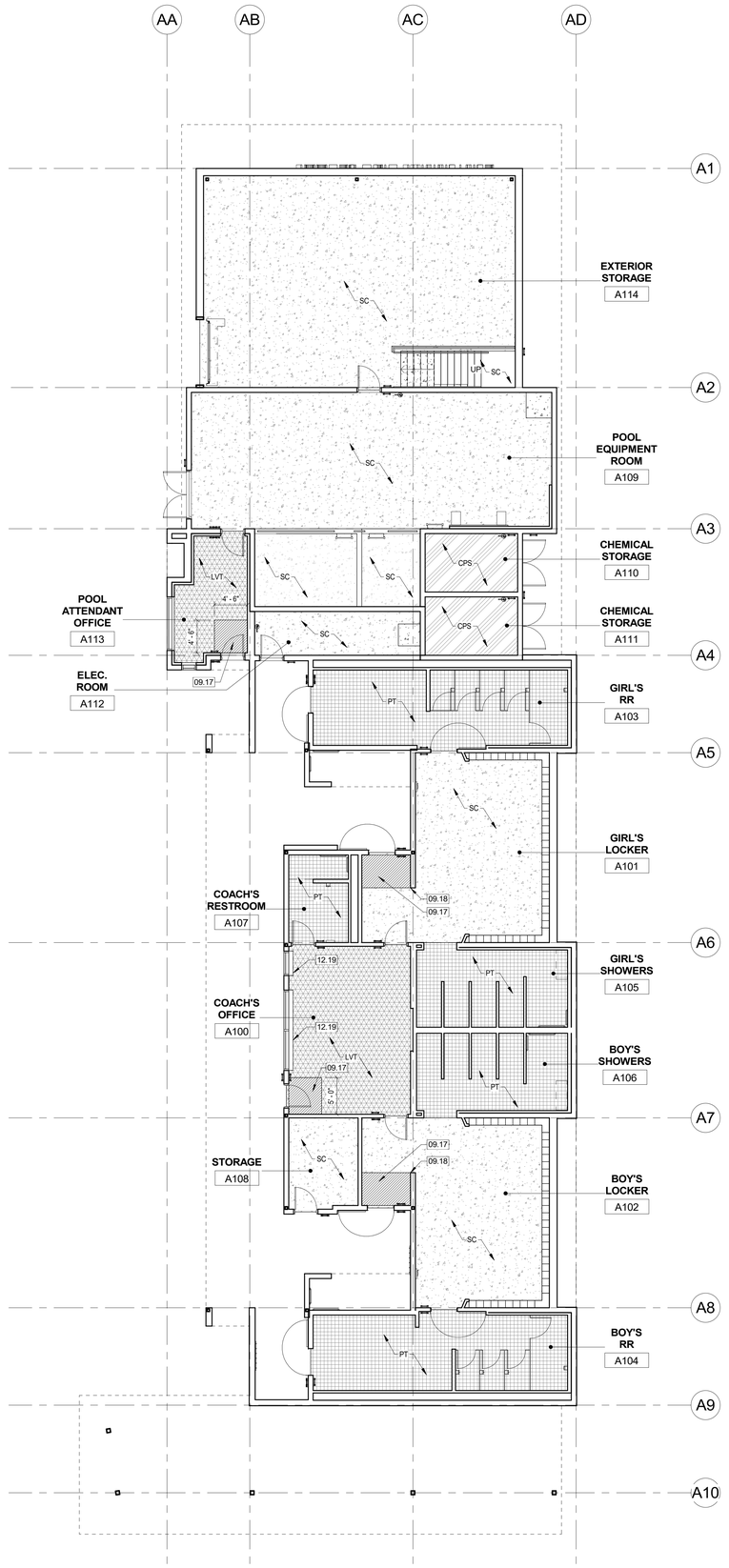
5/4/2023 11:38:25 AM

0" 1"




FINISH PLAN - BLDG "B"
1/8" = 1'-0"
4

NORTH




FINISH PLAN - BLDG "A"
1/8" = 1'-0"
2

NORTH

## CONSTRUCTION KEYED NOTES

| # | Description |
|---|---|
| 09.17 | CARPET ENTRY WALK-OFF MAT, PER SPEC |
| 09.18 | ALIGN WALK-OFF MAT WITH END OF WALL |
| 12.19 | ROLLERSHADES |

## FINISH FLOOR LEGEND

- CERAMIC TILE (CT)
- CHEMICAL PROTECTION SEALER (CPS)
- EPOXY FLOORING (EF)
- LINOLEUM FLOOR (LN)
- SEALED CONCRETE (SC)
- WALK-OFF MAT (WM)

SEE SHEET **G0.1** FOR GENERAL SYMBOL LEGEND

## MATERIAL ABBREVIATIONS

| | |
|---|---|
| **CMU** | CONCRETE MASONRY UNIT |
| **CPS** | CHEMICAL PROTECTION SEALER |
| **CT** | CERAMIC TILE |
| **CTB** | CERAMIC TILE COVED BASE |
| **ECB** | INTEGRAL EPOXY COVED BASE |
| **EF** | EPOXY FLOORING |
| **EX** | EXPOSED STRUCTURE, NOT PAINTED |
| **GYP** | GYMPUSM BOARD |
| **PAR** | TOILET PARTITION |
| **PT** | PORCELAIN TILE |
| **SC** | SEALED CONCRETE |
| **LKR** | LOCKER |
| **LVT** | LUXURY VINYL TILE |
| **P** | INTERIOR PAINT |
| **PE** | EXTERIOR PAINT |
| **RB** | RUBBER BASE |
| **SC** | SEALED CONCRETE |
| **WSC** | WINDOW SHADE CLOTH |

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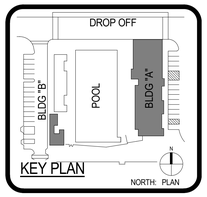
# CENTENNIAL HIGH SCHOOL AQUATICS CENTER

**PROJECT ADDRESS:**
1820 RIMPAU AVE.
CORONA, CA 92881

**CONSTRUCTION DOCUMENTS**
FILE #: **33-H4** DSA APPLICATION #: **04-122208**




Consultant

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LICENSED ARCHITECT
Gavin T. Blain
No. C-36451
REN. 11-30-2024
STATE OF CALIFORNIA

FOR PLAN CHECK ONLY

CLIENT
CNUSD

| DATE | PROJECT NUMBER |
|---|---|
| 5/5/2023 | 220306 |

REVISIONS

| No. | Description | Date |
|---|---|---|
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**CONSTRUCTION DOCUMENTS**

## FINISH PLAN - BLDG'S A & B

**A10.1**

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0" 1"

## MATERIAL SCHEDULE - BUILDING A

| ROOM # | ROOM NAME | FLOOR | BASE | WALL FINISH | | | | CEILING FINISH | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|
| | | | | NORTH WALL | EAST WALL | SOUTH WALL | WEST WALL | | |
| A100 | COACH'S OFFICE | LN1 | RB1 | P1 | P1 | P1 | P1 | P1 | 150 |
| A101 | GIRL'S LOCKER | SC1 | RB1 | P1 | CMU | P1/CMU | P1 | P1 | 50 |
| A102 | BOY'S LOCKER | SC1 | RB1 | P1 | CMU | P1/CMU | P1 | P1 | 50 |
| A103 | GIRL'S RR | PT1 | CTB1 | CT1&2/P1 | CT1&2/P1 | CT1&2/P1 | CT1&2/P1 | P1 | - |
| A104 | BOY'S RR | PT1 | CTB1 | CT1&2/P1 | CT1&2/P1 | CT1&2/P1 | CT1&2/P1 | P1 | SEE INTERIOR ELEVATIONS FOR MULTIPLE FINISHES |
| A105 | GIRL'S SHOWERS | PT1 | CTB1 | CT1&2/P1 | CT1&2/P1 | CT1&2/P1 | CT1&2/P1 | P3 | - |
| A106 | BOY'S SHOWERS | PT1 | CTB1 | CT1&2/P1 | CT1&2/P1 | CT1&2/P1 | CT1&2/P1 | P3 | - |
| A107 | COACH'S RESTROOM | PT1 | CTB1 | CT1&2/P1 | CT1&2/P1 | CT1&2/P1 | CT1&2/P1 | P1 | SEE INTERIOR ELEVATIONS FOR MULTIPLE FINISHES |
| A108 | STORAGE | SC1 | RB1 | P1 | P1 | P1 | P1 | EX | 300 |
| A109 | POOL EQUIPMENT ROOM | SC1 | -- | CMU1 | CMU1 | CMU | CMU | EX | 300 |
| A110 | CHEMICAL STORAGE | CPS1 | -- | CMU1 | CMU1 | CMU | CMU | P1 | |
| A111 | CHEMICAL STORAGE | CPS1 | -- | CMU1 | CMU1 | CMU | CMU | P1 | |
| A112 | ELEC. ROOM | SC1 | -- | CMU1 | CMU1 | CMU | CMU | EX | 300 |
| A113 | POOL ATTENDANT OFFICE | LN1 | RB1 | P1 | P1 | P1 | P1 | P1 | 150 |
| A114 | EXTERIOR STORAGE | SC1 | -- | CMU1 | CMU1 | CMU | CMU | P1 | SEE INTERIOR ELEVATIONS FOR MULTIPLE FINISHES |

## MATERIAL SCHEDULE - BUILDING B

| ROOM NUMBER | ROOM NAME | FLOOR | BASE | WALL FINISH | | | | CEILING FINISH | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|
| | | | | NORTH WALL | EAST WALL | SOUTH WALL | WEST WALL | | |
| B100 | CONCESSIONS | EF1 | ECB | P1 | P1 | P1 | P1 | P1 | 150 |
| B101 | CUSTODIAN | SC1 | -- | CMU1 | CMU1 | P1 | CMU1 | EX | 300 |
| B102 | BOY'S RESTROOM | PT1 | CTB1 | CT1&2/P1 | CT1&2/P1 | CT1&2/P1 | CT1&2/P1 | P1 | |
| B103 | GIRL'S RESTROOM | PT1 | CTB1 | CT1&2/P1 | CT1&2/P1 | CT1&2/P1 | CT1&2/P1 | P1 | |

MATERIAL SCHEDULE - ALL BUILDINGS
NOT TO SCALE **20**

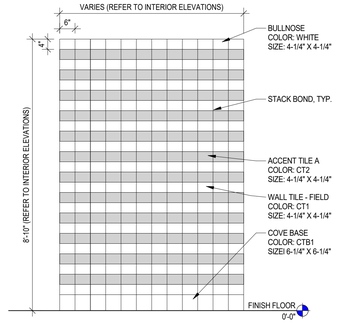
## BUILDING FINISH SCHEDULE

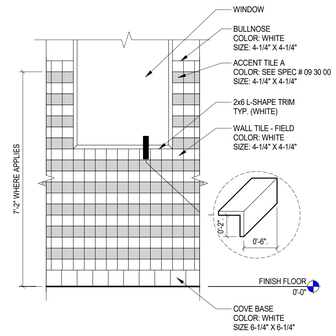
| ITEM | MANUFACTURER | DESCRIPTION | COLOR | SIZE | LOCATION | NOTES |
|---|---|---|---|---|---|---|
| **CONCRETE MASONRY UNIT** | | | | | | |
| CMU1 | ANGELUS BLOCK CO. | CMU | TBD | 8x8x16 TYPICAL, UNO | TYPICAL | |
| CMU2 | ANGELUS BLOCK CO. | CMU | TBD | 8x8x16 TYPICAL, UNO | EXTERIOR ACCENT | REFER TO EXTERIOR ELEVATIONS FOR LOCATION |
| **EXTERIOR PLASTER PAINT** | | | | | | |
| PE1 | DUNN EDWARDS | PAINT | TBD | N/A | FIELD COLOR | |
| PE2 | DUNN EDWARDS | PAINT | TBD | N/A | ACCENT COLOR | REFER TO EXTERIOR ELEVATIONS FOR LOCATION |
| **SEALED CONCRETE** | | | | | | |
| SC1 | MOXIE INTERNATIONAL | SEALED CONCRETE | CLEAR | N/A | SEE PLAN | |
| **CHEMICAL PROTECTION SEALER** | | | | | | |
| CPS1 | -- | -- | CLEAR | N/A | CHEMICAL STORAGE ROOMS | |
| **EPOXY FLOORING** | | | | | | |
| EF1 | STONHARD | HRI EPOXY FLOORING | TBD | N/A | CONCESSIONS | |
| **PORCELAIN FLOOR TILE** | | | | | | |
| PT1 | DALTILE | KEYSTONES | BUFFSTONE RANGE D147 | 2" x 2" | RESTROOMS; INT SHOWERS | MATTE FINISH, STRAIGHT JOINT |
| **CERAMIC WALL TILE** | | | | | | |
| CT1 | DALTILE | COLOR WHEEL CLASSIC | 0190 ARCTIC WHITE | 3" x 6" | RESTROOMS; INT SHOWERS | GLOSS FINISH; GROUT = LATICRETE, 44 BRIGHT WHITE |
| CT2 | DALTILE | COLOR WHEEL CLASSIC | 0790 ARCTIC WHITE | 3" x 6" | RESTROOMS; INT SHOWERS | MATTE FINISH; GROUT = LATICRETE, 44 BRIGHT WHITE |
| **CERAMIC TILE BASE** | | | | | | |
| CTB1 | DALTILE | COLOR WHEEL CLASSIC | 0190 ARCTIC WHITE | 3" x 6" | RESTROOMS; INT SHOWERS | GLOSS FINISH; GROUT = LATICRETE, 44 BRIGHT WHITE |
| **INTERIOR PAINT** | | | | | | |
| P1 | DUNN EDWARDS | PAINT | TBD | N/A | FIELD COLOR | |
| P2 | DUNN EDWARDS | PAINT | TBD | N/A | ACCENT COLOR | REFER TO INTERIOR ELEVATIONS FOR LOCATION |
| P3 | DUNN EDWARDS | PAINT | TBD | N/A | CEILING @ INT SHOWERS | |
| **RESILIENT BASE** | | | | | | |
| RB1 | BURKE/MANNINGTON | RUBBER BASE | BLACK BROWN 523 | 4" HIGH | PER SCHED | |
| **METAL LOCKERS** | | | | | | |
| LKR1 | SPACESAVER CORP | STANDARD POWDERCOAT | FR-FROST (6) | N/A | LOCKER ROOMS | |
| **RESTROOM PARTITIONS** | | | | | | |
| PAR1 | SCRANTON PRODUCTS | HINY HIDERS | CONCRETE | TEXTURE: ORANGE PEEL | RESTROOMS | |
| **WINDOW SHADE CLOTH** | | | | | | |
| WSC1 | MECHO | ROLLER SHADE | TBD | X% OPENNESS | WINDOWS | REFER TO FLOOR PLANS FOR LOCATION |

**NOTE:**
REFER TO INTERIOR ELEVATIONS, EXTERIOR ELEVATIONS, AND FINISH FLOOR PLANS FOR FINISH LOCATIONS AND HEIGHTS.

BUILDING FINISHES
1/8" = 1'-0" **2**

## RESTROOM TILE PATTERN




## MATERIAL ABBREVIATIONS

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| **P** | INTERIOR PAINT |
| **PE** | EXTERIOR PAINT |
| **RB** | RUBBER BASE |
| **SC** | SEALED CONCRETE |
| **WSC** | WINDOW SHADE CLOTH |

## GENERAL NOTES

**NOTES:**
1. ALL FINISH MATERIALS MUST MEET THE FLAME SPREAD RATINGS PER 2019 CBC, CHAPTER 8 TABLE 803.13 FOR INTERIOR WALL AND CEILING FINISHES, AND SECTION 804 FOR FLOOR FINISHES.
2. REFER TO INTERIOR ELEVATIONS FOR SPECIFIC MATERIAL LOCATIONS.
3. PAINT ALL EXPOSED DUCTWORK, CONDUIT, ELECTRICAL EQUIPMENT, ETC TO MATCH ADJACENT SURFACES, UNO.
4. PAINT ALL NON-FACTORY FINISHED EXPOSED METAL.
5. REFER TO TYPICAL FLOORING TRANSITION DETAILS FOR ALL FLOORING MATERIALS.
6. FLOORING TRANSITIONS AT DOORS SHOULD BE LOCATED UNDER, AND CONCELED BY THE DOOR IN THE CLOSED POSITION, UNO.
7. CONTRACTOR WILL BE RESPONSIBLE FOR PROTECTING FINISHED FLOORING SURFACES FROM DAMAGE DURING ALL CONSTRUCTION PHASES.
8. PROVIDE BULLNOSE TILE/TRIM AT TRANSITIONS FROM CERAMIC WALL TILE TO OTHER MATERIAL, UNO.
9. REFER TO REFLECTED CEILING PLANS FOR CEILING HEIGHTS.
10. ALL ELECTRICAL DEVICE COVERS ARE TO BE WHITE, UNO.
11. ALL HOLLOW METAL DOOR FRAMES TO BE PAINTED TO MATCH ADJACENT PAINTED WALL COLOR, UNO.
12. ALL FINISHED FLOOR SURFACES SHALL BE SLIP RESISTANT

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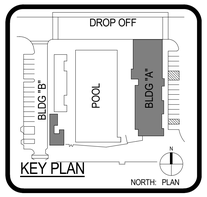


Consultant

Architect
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STATE OF CALIFORNIA
FOR PLAN CHECK ONLY

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CNUSD

| DATE | PROJECT NUMBER |
|---|---|
| 5/5/2023 | 220306 |

REVISIONS

| No. | Description | Date |
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**CONSTRUCTION DOCUMENTS**

**FINISH SCHEDULES - BLDG'S A & B**

**A10.2**

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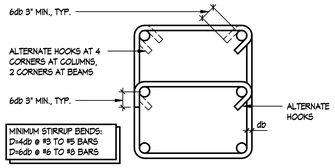
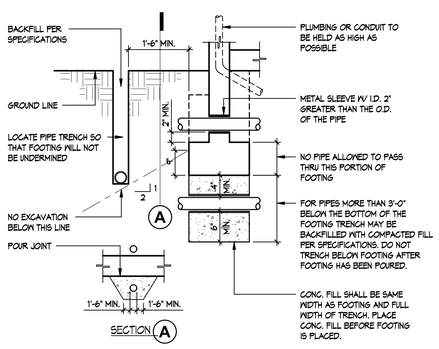
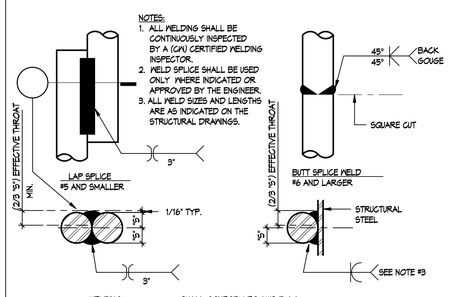


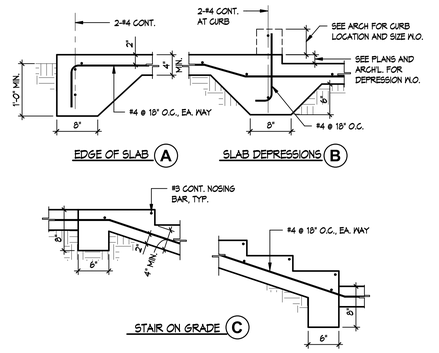

## TYP - TIE AND STIRRUP DETAILS 7
1" = 1'-0"



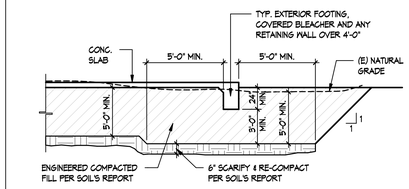

## TYP - PIPE TRENCH AND FOOTING DETAIL 3
1" = 1'-0"



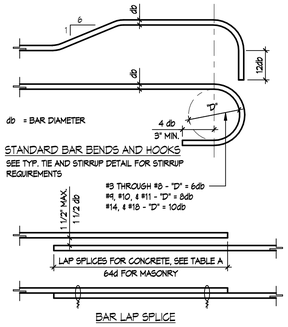

## TYP - WELDED REINFORCING SPLICE 8
1" = 1'-0"




## TYP - SLAB ON GRADE DETAILS 4
1" = 1'-0"




## OVER EXCAVATION REQUIREMENTS 9
1" = 1'-0"




## TYP - SLAB JOINT DETAILS 5
1" = 1'-0"

TABLE A

| BAR LAP SPLICES IN CONC. (CLASS B) 3500 P.S.I. | | BAR LAP SPLICES IN CONC. (CLASS B) 4000 P.S.I. | | BAR LAP SPLICES IN CONC. (CLASS B) 4500 P.S.I. | |
|---|---|---|---|---|---|
| BAR SIZE | BAR LAP | BAR SIZE | BAR LAP | BAR SIZE | BAR LAP |
| #4 | 27" | #4 | 25" | #4 | 24" |
| #5 | 33" | #5 | 31" | #5 | 30" |
| #6 | 40" | #6 | 37" | #6 | 35" |
| #7 | 53" | #7 | 54" | #7 | 51" |
| #8 | 66" | #8 | 62" | #8 | 54" |
| #9 | 75" | #9 | 70" | #9 | 66" |
| #10 | 84" | #10 | 78" | #10 | 66" |
| | | | | #11 | 80" |

52.5 db (#9)
46.5 db (#8)
65.1 db (#11)

NOTES:
1. ALL TABULATED BAR LAPS SHALL BE MULTIPLIED BY 1.3 FOR HORIZONTAL WALL BAR AND TOP OF FOOTING BARS.
2. CLEAR SPACING OF BARS BEING DEVELOPED OR SPLICED NOT LESS THAN db, CLEAR COVER NOT LESS THAN db, AND STIRRUPS OR TIES THROUGHOUT 1d NOT LESS THAN THE MINIMUM OR CLEAR SPACING OF BARS BEING DEVELOPED OR SPLICED NOT LESS THAN 2db AND CLEAR COVER NOT LESS THAN db.

*NOTE: PROVIDE MIN. 72 BAR DIA. LAP SPLICE FOR THE FOLLOWING MASONRY REINF. CONDITIONS:

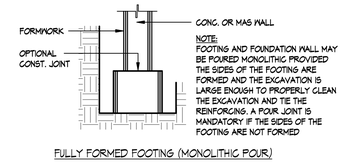
1. ALL JAMB REINFORCING.
2. VERT. REINFORCING SPLICES OCCURING AT MID 1/3 HEIGHT OF WALL.
3. ALL CHORD REINFORCING.
4. STAGGER VERTICAL SPLICE LOCATIONS FOR #8 REINFORCING.

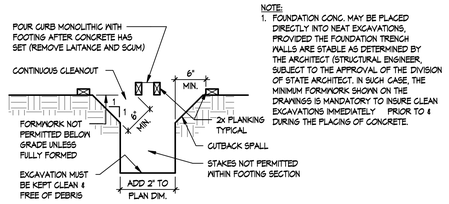
## TYP - REINFORCING BAR DETAILS 6
1" = 1'-0"

LEGEND

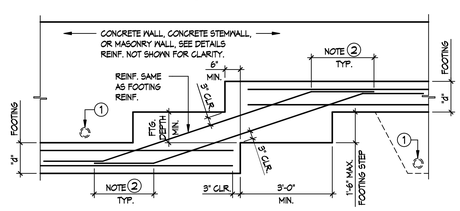
| | | | |
|---|---|---|---|
| A.B. | ANCHOR BOLT | H.A.B. | HEADED ANCHOR BOLT |
| ABV. | ABOVE | H.D. | HOLD DOWN |
| BEL. | BELOW | HDR. | HEADER |
| BLK'G. | BLOCKING | HORIZ. | HORIZONTAL |
| BM. | BEAM | H.S.A. | HEADED STUD ANCHOR |
| B.N. | BOUNDARY NAILING | H.S.B. | HIGH STRENGTH BOLT |
| B.O.M.D. | BOTTOM OF METAL DECK | H.S.S. | HOLLOW STRUCTURAL SECTION |
| BOTT. | BOTTOM | JST. | JOIST |
| C. | CAMBER | LT. WT. | LIGHT WEIGHT |
| C.B. | CARRIAGE BOLT | LDGR. | LEDGER |
| CLR. | CLEAR | MAS. | MASONRY |
| C.J. | CONSTRUCTION JOINT | M.B. | MACHINE BOLT |
| C.N. | CONTINUOUS NAILING | (N) | NEW |
| COL. | COLUMN | N.S. | NEAR SIDE |
| CONC. | CONCRETE | N.T.S. | NOT TO SCALE |
| CONN. | CONNECTION | O.C. | ON CENTER |
| CONT. | CONTINUOUS | O.H. | OPPOSITE HAND |
| C.P. | COMPLETE PENETRATION | OPNG. | OPENING |
| C.P.E. | CONTINUOUS PANEL EDGES | P.J. | POUR JOINT |
| D.B.A. | DEFORMED BAR ANCHOR | PLT. | PLATE |
| DBL. | DOUBLE | PLYWD. | PLYWOOD |
| D.B. | DRAG BAR | REQ'D. | REQUIRED |
| DIA. | DIAMETER | REM. | REMAINDER |
| DO | DITTO | R.S. | ROUGH SAWN |
| DRWG. | DRAWING | SHT'G | SHEATHING |
| EA. | EACH | S.J. | SEPARATION JOINT |
| ELEV. | ELEVATION | SQ. | SQUARE |
| (E) | EXISTING | SIM. | SIMILAR |
| E.J. | EXPANSION JOINT | S.M. | SHEET METAL |
| E.N. | EDGE NAILING | S.M.S. | SHEET METAL SCREW |
| E.S. | EDGE SCREW | S.P. | SEE PLAN |
| EQ. | EQUAL | STAGG. | STAGGERED |
| EXT. | EXTERIOR | STD. | STANDARD |
| FDN. | FOUNDATION | STL. | STEEL |
| F.G. | FINISH GRADE | STL. JST. | STEEL JOIST |
| F.H.W.S. | FLAT HEAD WOOD SCREWS | T.O.C. | TOP OF CONCRETE |
| F.N. | FIELD NAILING | T.O.M. | TOP OF MASONRY |
| F.O.C. | FACE OF CONCRETE | T.O.M.D. | TOP OF METAL DECK |
| F.O.M. | FACE OF MASONRY | T.O.F. | TOP OF PLYWOOD |
| F.O.S. | FACE OF STUD | T.O.PAR. | TOP OF PARAPET |
| F.S. | FAR SIDE | T.O.S. | TOP OF STEEL |
| FRMG. | FRAMING | TYP. | TYPICAL |
| FTG. | FOOTING | U.N.O. | UNLESS NOTED OTHERWISE |
| GALV. | GALVANIZED | VERT. | VERTICAL |
| GA. | GAUGE | W.O. | WHERE OCCURS |
| G.L.B. | GLUE LAMINATED BEAM | W.P.J. | WEAKENED PLANE JOINT |
| GYP. BD. | GYPSUM BOARD | W.W.F. | WELDED WIRE FABRIC |

DETAIL NUMBER / SHEET NUMBER
WALL ELEV./SECTION LETTER / SHEET NUMBER
STEP FOOTING
-0"-0" REFERENCE ELEVATION
-0"-0" BOTTOM OF FOOTING ELEVATION




## TYP - FOUNDATION FORMING DETAILS 1
1" = 1'-0"




## TYP - STEPPED FOOTING DETAIL 2
1/2" = 1'-0"

STRUCTURAL STEEL:

1. STEEL SHALL COMPLY WITH THE REQUIREMENTS OF THE FOLLOWING A.S.T.M. DESIGNATIONS.
   - W SHAPES - ASTM A-992 GRADE 50
   - STRUCTURAL SHAPES & PLATES - ASTM A-36 GRADE B
   - DOUBLER & CONTINUITY PLATES - ASTM A572 GRADE 50 U.N.O.
   - PIPE COLUMNS - ASTM A-53 GRADE B
   - STEEL TUBE - ASTM A-500 GRADE C
   - MACHINE BOLTS - ASTM A-307 GRADE A
   - HIGH STRENGTH BOLTS - ASTM A-325 (TYPE SC)
   - THREADED ROD ANCHORS - ASTM A-108 GRADE 1015 TO 1020
   - THREADED RODS (IN CONCRETE)- ASTM F1554 GRADE 55
   - ANCHOR BOLTS (IN CONCRETE) - ASTM F1554 GRADE 55
2. NO STRUCTURAL STEEL SHALL BE FABRICATED OR ERECTED PRIOR TO REVIEW OF SHOP DRAWINGS BY THE STRUCTURAL ENGINEER.
3. ALL ERECTION AND FABRICATION SHALL COMPLY WITH THE LATEST EDITION OF THE AISC.
4. WELDING SHALL BE PERFORMED ONLY BY CERTIFIED WELDERS. ALL SHOP WELDING SHALL BE DONE IN THE SHOP OF AN APPROVED FABRICATOR.
5. NO FIELD CUTTING OR BURNING OF STRUCTURAL STEEL WILL BE PERMITTED WITHOUT WRITTEN CONSENT OF THE STRUCTURAL ENGINEER.
6. ALL EXPOSED STEEL SHALL BE GALVANIZED U.N.O.
7. ALL EXPOSED WELDS SHALL BE GROUND SMOOTH.
8. WELD FILLER = E70XX
9. SEE SEISMIC FORCE RESISTING SYSTEM (SFRS) REQUIREMENTS FOR ADDITIONAL INFORMATION.

MECHANICAL UNIT FRAMING

1. THE DIMENSIONS FOR THE SUPPORT OF THE MECHANICAL UNITS,EXHAUST FANS, CONDENSING UNITS, ETC., AS SHOWN IN THE STRUCTURAL DRAWINGS ARE APPROXIMATE. THE GENERAL CONTRACTOR SHALL COORDINATE THE UNIT TYPE AND QUANTITY WITH THE STRUCTURAL DRAWINGS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCY PRIOR TO THE STRUCTURAL STEEL SHOP DRAWINGS PHASE.
2. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO FULLY COORDINATE THE ACTUAL STRUCTURAL STEEL DIMENSIONS WITH THE MECHANICAL CONTRACTOR AND THE STRUCTURAL STEEL FABRICATOR. COORDINATION SHALL OCCUR PRIOR TO THE STRUCTURAL STEEL SHOP DRAWING PHASE.
3. FURTHER COORDINATION OF THE FIELD WELDED ANGLE FRAME SUPPORTING THE UNIT CURB SHALL BE PROVIDED BY THE GENERAL CONTRACTOR AND COORDINATED WITH THE ACTUAL MECHANICAL UNIT CURB DIMENSIONS. THE HEIGHT OF THE ANGLE FRAME SUPPORTING THE MECH. UNIT SHALL BE COORDINATED BY THE GENERAL CONTRACTOR PRIOR TO THE SHOP DRAWING PHASE.
4. MECHANICAL UNIT SUBSTITUTIONS MAY IMPACT THE SUPPORT FRAMING DUE TO UNIT WEIGHT OR SIZE AS SHOWN ON THE MECHANICAL DRAWINGS. ANY COSTS INCURRED FROM ANY SUBSTITUTIONS MADE BY THE CONTRACTOR WHICH REQUIRES RE-DESIGN OR MODIFICATIONS TO THE CONSTRUCTION DOCUMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR MAY WISH TO INQUIRE AS TO THE PROBABLE EXTENT OF THESE COSTS PRIOR TO INTRODUCING A SUBSTITUTION.

MASONRY

1. ALL MASONRY CONSTRUCTION SHALL COMPLY WITH THE 2022 C.B.C. CHAPTER 21A.
2. REINFORCING SHALL HAVE A MINIMUM ONE BAR DIAMETER GROUT COVERAGE.
3. REINFORCING SPLICES SHALL HAVE A MINIMUM 72 BAR DIA. LAP. PROVIDE MIN. 72 BAR DIA. LAP TYP. FOR ALL THE FOLLOWING CONDITIONS:
   A. ALL VERTICAL JAMB REINFORCING SPLICES
   B. VERTICAL REINFORCING SPLICES OCCURING AT MID 1/3 HEIGHT OF WALL
   C. ALL CHORD BAR SPLICES
4. MASONRY CONSTRUCTION SHALL BE REINFORCED AND GROUTED SOLID.
5. PIPES OR DUCTS ARE NOT PERMITTED WITHIN MASONRY CONSTRUCTION U.N.O.
6. CEMENT: PORTLAND CEMENT TYPE I OR II, LOW ALKALI, ASTM C-150.
7. MORTAR SHALL CONFORM TO C.B.C. 2103A.2, TYPE S - 2000 P.S.I.
8. GROUT: 1 PART CEMENT, 3 PART SAND, 2 PART GRAVEL. 2000 P.S.I. MINIMUM GROUT COMPRESSIVE STRENGTH.
9. CONCRETE BLOCK SHALL CONFORM TO A.S.T.M. C90 MINIMUM COMPRESSIVE STRENGTH. 2000 P.S.I. (MEDIUM WEIGHT).
10. MASONRY SHALL BE LAID IN RUNNING BOND.
11. ALL BOLTS IN MASONRY SHALL BE ACCURATELY SET WITH TEMPLATES.
12. CORE TESTS:
    - COMPRESSION 2000 P.S.I.
    - SHEAR 112 P.S.I.
13. HEIGHT OF GROUT LIFTS SHALL NOT EXCEED 4'-0" AND SHALL CONFORM TO C.B.C. 2104A.5.1.13.
14. METAL REINFORCEMENT SHALL BE LOCATED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS. REINFORCEMENT SHALL BE SECURED AGAINST DISPLACEMENT PRIOR TO GROUTING BY WIRE POSITIONERS OR OTHER SUITABLE DEVICES AT INTERVALS NOT EXCEEDING 200 BAR DIAMETERS.

STRUCTURAL OBSERVATION:

1. WHERE REQUIRED BY THE PROVISIONS OF SECTION 1710A.2 OR 1710A.3 THE OWNER SHALL EMPLOY A REGISTERED DESIGN PROFESSIONAL TO PERFORM STRUCTURAL OBSERVATIONS AS DEFINED.
   THE VISUAL OBSERVATION OF THE STRUCTURAL SYSTEM BY A REGISTERED DESIGN PROFESSIONAL FOR GENERAL CONFORMANCE TO THE APPROVED CONSTRUCTION DOCUMENTS AT SIGNIFICANT CONSTRUCTION STAGES AND AT COMPLETION OF THE STRUCTURAL SYSTEM. STRUCTURAL OBSERVATION DOES NOT INCLUDE OR WAIVE THE RESPONSIBILITY FOR INSPECTION REQUIRED BY SECTIONS 104 APPENDIX CHAPTER 1, AND 1704A OR ANY OTHER SECTIONS OF THE 2019 C.B.C. AT THE CONCLUSION OF THE WORK INCLUDED IN THE PERMIT, THE STRUCTURAL OBSERVER SHALL SUBMIT TO THE BUILDING OFFICIAL A WRITTEN STATEMENT THAT THE SITE VISITS HAVE BEEN MADE AND IDENTIFY ANY REPORTED DEFICIENCIES THAT, TO THE BEST OF THE STRUCTURAL OBSERVER'S KNOWLEDGE, HAVE NOT BEEN RESOLVED.
2. STRUCTURAL OBSERVATION SHALL BE PROVIDED BY THE STRUCTURAL ENGINEER AT THE FOLLOWING PHASES AS A MINIMUM.
   A. UPON COMPLETION OF FOUNDATION REINFORCEMENT, IMMEDIATELY PRIOR TO CONCRETE POUR.
   B. PERIODIC AND GENERAL MASONRY CONSTRUCTION OBSERVATION. THIS DOES NOT REPLACE SPECIAL MASONRY INSPECTION.
   C. MEZZANINE DECK WELDING OBSERVATION PRIOR TO CONCRETE POUR.
   D. ROOF DECK WELDING AND ROOF PLYWOOD NAILING OBSERVATION.
   E. ADDITIONAL VISITATION AS DEEMED NECESSARY BY THE STRUCTURAL ENGINEER.
3. FOR ALL ITEMS THE CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER 48 HOURS PRIOR TO COMPLETION OF THE WORK TO BE OBSERVED.

SEISMIC FORCE RESITING SYSTEM (SFRS) REQUIREMENTS

1. MEMBERS LABELLED AS STRUTS ARE PART OF THE SFRS, SEE DETAILS FOR ADDITIONAL LOCATIONS AND CRITERIA.
2. BOLTED CONNECTIONS FAYING SURFACES SHALL COMPLY WITH AISC 360-16 J3.8 FOR CLASS A SURFACES.
3. ALL WELD FILLER SHALL COMPLY WITH AISC 341-16 A3.4 AND AWS D1.8 CLAUSE 6.3 AND HAVE A MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20FT-LB @ 0°F. WELDS INDICATED AS DEMAND CRITICAL (D.C.N.) SHALL HAVE A CHARPY V-NOTCH TOUGHNESS OF 40FT-LB @ 70°F.
4. CONTRACTOR SHALL COMPLY WITH AISC 341-16 CHAPTER J QUALITY CONTROL PLAN
5. INSPECTION SHALL COMPLY WITH AISC 341-16 CHAPTER J QUALITY ASSURANCE PLAN

METAL DECKING

1. STL. MATERIAL FOR THE DECK UNITS SHALL CONFORM TO ASTM A-653 (SS), GR.50.
   A) ROOFS-VERCO "P.L.B./N.S.B.-36" OR EQ. $f_y$ = 50,000 P.S.I.
2. ALL DECK UNITS SHALL BE GALVANIZED. GALVANIZED COATING SHALL CONFORM TO ASTM A-653, CLASS G-60
3. WELDING SHALL BE WITH E60 OR E70 ELECTRODE AND PERFORMED BY CERTIFIED, LICENSED LIGHT GAUGE WELDER PER AWS D1.3
4. METAL DECK SHALL BE CONTINUOS FOR TWO SPANS.

DESIGN LOADS

1. ROOF LIVE LOAD (REDUCIBLE PER SECTION 1607A.10) - 20 P.S.F.
2. ROOF DEAD LOAD - 24 P.S.F. (4 P.S.F. M.O.)
3. WIND DESIGN:
   - BASIC WIND SPEED (3 SECOND GUST) - 85 M.P.H.
   - WIND EXPOSURE - C
   - COMPONENTS AND CLADDING DESIGN PRESSURE - 24.1 P.S.F. (WORST CASE VARIES)
4. SEISMIC DESIGN:
   - SEISMIC IMPORTANCE FACTOR (Ie) - 1.0
   - MAPPED SPECTRAL RESPONSE ACCELERATIONS:
   - $S_S$: 2.032
   - $S_1$: 0.798
   - SITE CLASS - D
   - STRUCTURAL RESPONSE COEFFICIENTS:
   - $S_{DS}$: 1.354
   - $S_{D1}$: 0.908
   - SEISMIC DESIGN CATEGORY - E
   - SEISMIC FORCE RESISTING SYSTEM: - SPECIAL REINFORCED MASONRY SHEARWALL
   - DESIGN BASE SHEAR (V) - 0.271W STRENGTH LEVEL
   - RESPONSE MODIFICATION FACTOR (R) - 5

   - SEISMIC FORCE RESISTING SYSTEM: - ORDINARY CANTILEVER COLUMN
   - DESIGN BASE SHEAR (V) - 1.084W STRENGTH LEVEL
   - RESPONSE MODIFICATION FACTOR (R) - 1.25

GENERAL

1. ALL CONSTRUCTION SHALL COMPLY WITH THE 2022 CALIFORNIA BUILDING CODE AND ALL APPLICABLE ORDINANCES.
2. FRAMING CONDITIONS NOT SPECIFICALLY SHOWN OR INDICATED SHALL BE FRAMED SIMILAR TO DETAILS SHOWN FOR THE RESPECTIVE MATERIALS OR CONDITIONS.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS BEFORE STARTING WORK AND REPORT ANY DISCREPANCIES TO THE ARCHITECT.
4. WITHOUT EXCLUSION OF ANY REFERENCE IN THE CONSTRUCTION DOCUMENT TO ANY RULE OR REGULATION, THE STRUCTURAL ENGINEER IS NOT ASSUMING ANY PROVISIONS OF SUPERVISION OF CONSTRUCTION METHODS OR PROCESSES.

FOUNDATIONS

1. CONTRACTOR SHALL REVIEW REPORT AND ADDENDUM OF SOILS INVESTIGATION BY: LEIGHTON, INC.
   REPORT DATE: SEPTEMBER 2, 2022 PROJECT # 13624.001
2. ALL FILL SHALL BE COMPACTED TO A MINIMUM OF 90% IN ACCORDANCE WITH THE SPECIFICATIONS.
3. TYPE OF SOIL: SANDY SILTS
4. MAXIMUM ALLOWABLE SOIL BEARING PRESSURE: 2,000 P.S.F. (INCREASABLE)
5. ALL FOOTINGS SHALL BE CARRIED A MINIMUM OF 12" BELOW ENGINEERED COMPACTED FILL.
6. ALL FOOTINGS SHALL REST ENTIRELY INTO ENGINEERED COMPACTED FILL.
7. PRIOR TO FORMING AND PLACING OF THE REINFROCING, ALL EXCAVATIONS SHALL BE INSPECTED AND APPROVED BY THE GEO-TECHNICAL ENGINEER.
8. IT IS THE CONTRACTORS RESPONSIBILITY TO COORDINATE ALL FOOTINGS AND UTILITY LINE RELATIONSHIPS SO THAT THE REQUIREMENTS OF DETAIL 3/S0.1 ARE MET. THE COST OF STEPPING THE FOOTINGS TO MEET THE REQUIREMENTS OF 3/S0.1 AND 2/S0.1 SHALL BE THE CONTRACTORS RESPONSIBILITY AND NEW UTILITY LINES SHALL BE LOCATED PRIOR TO FOUNDATION EXCAVATION.

SPECIAL INSPECTION

1. ALL FIELD AND SHOP WELDING OF REINFORCING AND STRUCTURAL STEEL SHALL BE CONTINUOSLY INSPECTED BY AN AWS CERTIFIED WELDING INSPECTOR.
2. THE GEO-TECHNICAL ENGINEER SHALL INSPECT THE PLACING AND PREPARING OF ALL FILL BELOW BUILDINGS AND PAVING.
3. ALL MASONRY SHALL BE CONTINUOSLY INSPECTED BY A SPECIAL DSA APPROVED INSPECTOR EMPLOYED BY THE OWNER.
4. AN INSPECTOR EMPLOYED BY THE OWNER IN ACCORDANCE WITH THE REQUIREMENTS OF STATE OF CALIFORNIA CODE OF REGULATIONS TITLE 24, PART 1 WILL BE ASSIGNED TO THE WORK. HIS DUTIES ARE SPECIFICALLY DEFINED IN TITLE 24, PART 1 AND SECTION 4-342.
5. CONTINUOS SPECIAL INSPECTION IS REQUIRED FOR ALL HIGH STRENGTH BOLTS PER SECTION 1704A.3.3.
6. REFERENCE DSA FORM 103 FOR REQUIRED TESTS AND INSPECTIONS.

CONCRETE

1. THE MINIMUM STRENGTH OF CONCRETE AT END OF 28 DAYS SHALL BE:
   - SLABS ON GRADE - 4000 P.S.I. - - - - 150 P.C.F.
   - FOOTINGS AND GRADE BEAMS - 4000 P.S.I. - - - - 150 P.C.F.
2. REINFORCING
   A. BOLTS IN CONCRETE : ASTM F1554 GR. 55 (S1) U.N.O.
   B. REINFORCING STEEL: ASTM A-615
      TYPICAL REINFORCING: GRADE 60 (#4 AND LARGER)
      GRADE 40 (#3 AND SMALLER)
      GRADE BEAM LONGITUDINAL REINFORCING STEEL SHALL BE ASTM A706, GR. 60 OR SHALL CONFORM TO ACI 318-14 SECTION 20.2.2.5 (b).
   C. REINFORCING FABRIC: ASTM A-185
   D. WELDING OF REINFORCING STEEL: AWS D1.4 LOW HYDROGEN ALL REINFORCING TO BE WELDED: ASTM A-706
   E. PROVIDE MINIMUM LAP ON ALL BARS PER TABLE A ON 6/S0.1 U.N.O.
   F. PROVIDE BENT BAR LAPS OF ALL HORIZONTAL REINFORCEMENT AT FOOTING CORNERS PER 12/S0.2
   G. STAGGER ALL SPLICES OF ALL HORIZONTAL REINFORCING
   H. PROVIDE MILL CERTIFICATE ON ALL REINFORCING STEEL.
   I. THE FOLLOWING MINIMUM CONCRETE COVERAGES SHALL BE MAINTAINED UNLESS NOTED OTHERWISE:
      1. SLABS ON GRADE - CENTER OF SLAB
      2. CAST AGAINST AND EXPOSED TO EARTH - 3"
      3. FORMED, EXPOSED TO EARTH AND WEATHER:
         #6 AND LARGER - 2"
         #5 AND SMALLER - 1 1/2"
      4. NOT EXPOSED TO WEATHER OR EARTH:
         WALLS, SLABS, AND JOISTS: #14 AND #18 - 1 1/2"
         #11 AND SMALLER - 3/4"
      5. THE MINIMUM CLEAR SPACING BETWEEN PARALLEL BARS IN A LAYER SHALL BE db BUT NOT LESS THAN 1 INCH.
3. CONCRETE: READY-MIXED CONCRETE ASTM C94.
4. CEMENT: PORTLAND CEMENT TYPE V LOW ALKALI: ASTM C-150 AT NORMAL WT. CONC. PORTLAND CEMENT TYPE II LOW ALKALI: ASTM C-150 AT LIGHT WT. CONC.
5. NORMAL WT. CONC. - AGGREGATES: NATURAL ROCK AND SAND: ASTM C-33 LIGHT WT. CONC. - AGGREGATES: NATURAL ROCK AND SAND: ASTM C-330
6. DOWELS, ANCHOR BOLTS, INSERTS, ETC., SHALL BE SECURELY TIED IN PLACE PRIOR TO POURING OF CONCRETE OR GROUT.
7. ANCHOR BOLTS WITH UPSET THREADS SHALL NOT BE USED.
8. NO PIPES, DUCTS, OR CONDUIT SHALL BE PLACED IN CONCRETE UNLESS SPECIFICALLY DETAILED OR NOTED.
9. CONSTRUCTION JOINT SHALL BE CLEAN, FREE OF LAITANCE, AND INTENTIONALLY ROUGHENED TO A FULL AMPLITUDE OF 1/4" PER ACI 318-14 18.12.10.
10. LONGITUDINAL HOLDING WIRES SHALL CONFORM TO ASTM A1064 WITH A MAX WIRE SIZE OF #5. HOLIND WIRES SHALL BE WELDED TO STIRRUP ONLY AND REINFORCING SHALL BE ASTM A706. ISOLATED FOOTINGS HOLDING WIRES SHALL BE LOCATED NO MORE THAN 9IX BAR DIAMETER FROM FREE END. SEE CBC 1905A.9 FOR ADDITIONAL REQUIREMENTS.

COLD-FORMED METAL FRAMING

1. ALL ERECTION AND FABRICATION SHALL COMPLY WITH THE LATEST EDITION OF AISI S202.
2. COLD ROLLED GALVANIZED STEEL MUST MEET THE MINIMUM REQUIREMENTS OF ASTM A653 SS GRADE 50, CLASS 1 OR ASTM A1003, GRADE 50 TYPE H (ST50H) ($F_y$= 50 KSI) FOR 12, 14 AND 16 GAGE MEMBERS. GALVANIZED COATINGS MUST MEET THE ASTM A924 SPECIFICATION.
3. COLD ROLLED GALVANIZED STEEL MUST MEET THE MINIMUM REQUIREMENTS OF ASTM A653 SS GRADE 33, OR ASTM A1003, GRADE 33 TYPE H (ST33H) ($F_y$=33 KSI) FOR 18 GAGE AND LIGHTER MEMBERS.
4. METAL STUDS AND/OR JOISTS:
   a. FOR METAL STUD WALLS, UNLESS OTHERWISE SHOWN ON THE DRAWINGS, PROVIDE STANDARD PINCHED STEEL MEMBERS.
   b. FOR JOISTS, UNLESS OTHERWISE SHOWN ON THE DRAWINGS, PROVIDE STANDARD PINCHED STEEL MEMBERS.
   c. STUD BLOCKING SHALL BE UNPINCHED.
5. ACCESSORIES: PROVIDE ALL ACCESSORIES INCLUDING, BUT NOT NECESSARILY LIMITED TO, TRACKS, CLIPS, WEB STIFFENERS, ANCHORS, FASTENING DEVICES, RESILIENT CLIPS, AND OTHER ACCESSORIES REQUIRED FOR A COMPLETE AND PROPER INSTALLATION, AND AS RECOMMENDED BY THE MANUFACTURER FOR THE STEEL MEMBERS USED.
6. SELF TAPPING SCREW FASTENERS SHALL BE IN COMPLIANCE WITH ASTM C1513 AND SHALL BE HEX WASHER, U.N.O., SCREWS SHALL HAVE MINIMUM CENTER-TO-CENTER SPACING OF 3 TIMES THE NOMINAL DIAMETER AND SHALL BE LOCATED A MINIMUM OF 1.5 TIMES THE NOMINAL DIAMETER FROM THE EDGE OF STEEL. MIN. THREE THREADS SHALL BE EXPOSED. PERMANENT SEPARATION BETWEEN MEMBERS SHALL NOT BE PERMITTED.
7. WELDED CONNECTIONS SHALL COMPLY WITH AWS D1.3 WELD FILLER MATERIAL SHALL BE A MINIMUM OF 70 KSI.
8. COMPLETE, UNIFORM AND LEVEL BEARING SUPPORT SHALL BE PROVIDED FOR THE BOTTOM TRACK. PROVIDE A GOOD GRADE OF COMMERCIAL GROUT FOR LEVELING THE FLOOR TRACK MEMBER OF STEEL STUD PARTITIONS AS REQUIRED.
9. SPLICES IN MEMBERS SHALL NOT BE PERMITTED UNLESS DETAILED ON PLANS.
10. WEB STIFFENERS SHALL BE PROVIDED AT REACTION POINTS AND/OR AT POINTS OF CONCENTRATED LOADS WHERE INDICATED ON THE DRAWINGS OR AS REQUIRED BY AISI.
11. JOIST BRIDGING SHALL BE PROVIDED WHERE INDICATED ON THE DRAWINGS.

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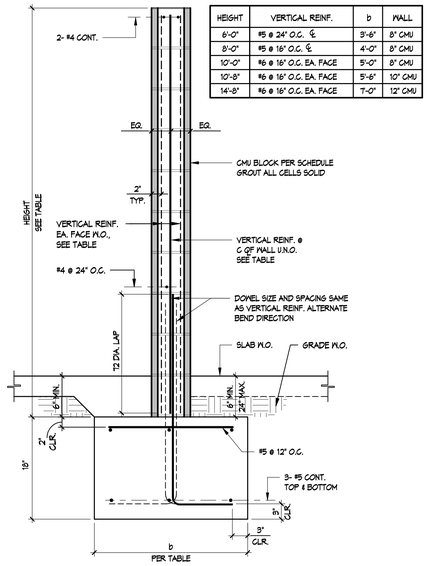
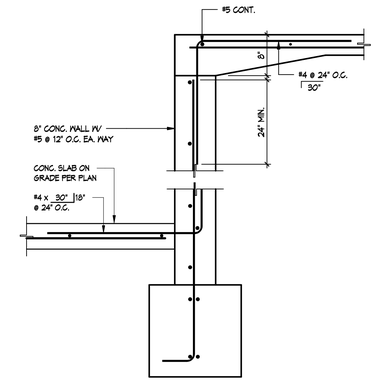
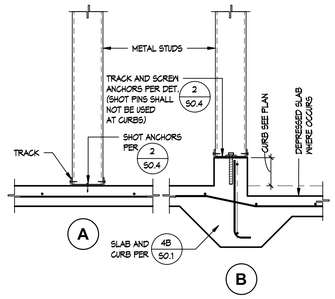



| HEIGHT | VERTICAL REINF. | b | WALL |
|---|---|---|---|
| 6'-0" | #5 @ 24" O.C. ℄ | 5'-6" | 8" CMU |
| 8'-0" | #5 @ 16" O.C. ℄ | 4'-0" | 8" CMU |
| 10'-0" | #6 @ 16" O.C. EA. FACE | 5'-0" | 8" CMU |
| 10'-8" | #6 @ 16" O.C. EA. FACE | 5'-6" | 10" CMU |
| 14'-8" | #6 @ 16" O.C. EA. FACE | 7'-0" | 12" CMU |

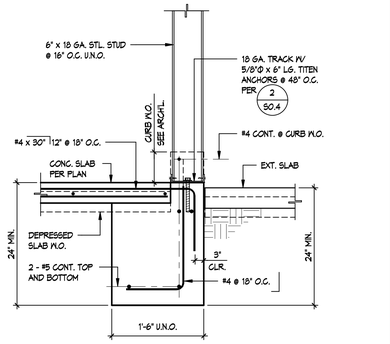
CMU SITE WALL DETAIL 18
1" = 1'-0"



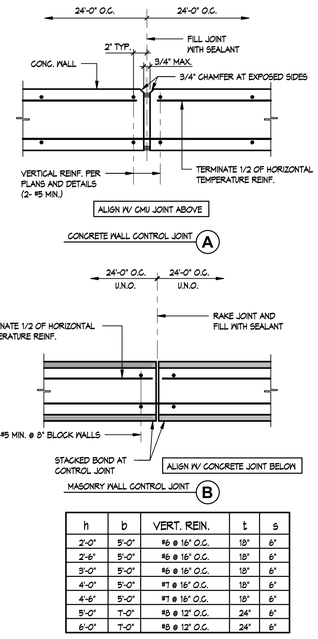

CONCRETE WALL DETAIL 9
1" = 1'-0"



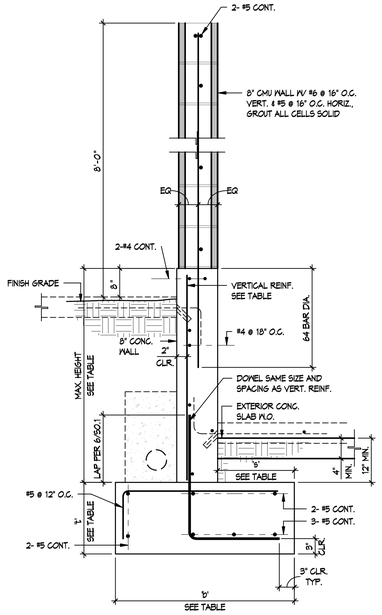

TYP - NON-BRG WALL TO SLAB DET. 5
1" = 1'-0"



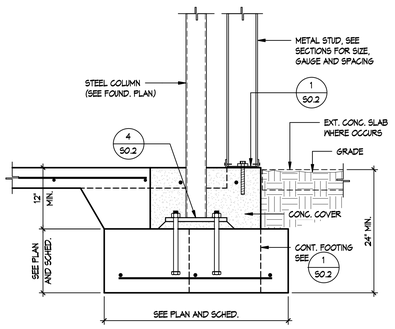

TYP - EXT. METAL STUD TO FDN. 1
1" = 1'-0"



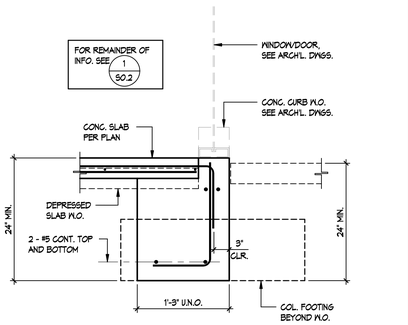

| h | b | VERT. REIN. | t | s |
|---|---|---|---|---|
| 2'-0" | 5'-0" | #6 @ 16" O.C. | 18" | 6' |
| 2'-6" | 5'-0" | #6 @ 16" O.C. | 18" | 6' |
| 3'-0" | 5'-0" | #6 @ 16" O.C. | 18" | 6' |
| 4'-0" | 5'-0" | #7 @ 16" O.C. | 18" | 6' |
| 4'-6" | 5'-0" | #7 @ 16" O.C. | 18" | 6' |
| 5'-0" | T-0" | #8 @ 12" O.C. | 24" | 6' |
| 6'-0" | T-0" | #8 @ 12" O.C. | 24" | 6' |



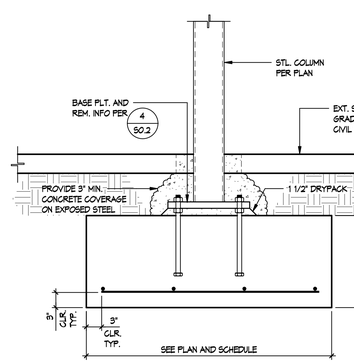

POOL SITE WALL 11
1" = 1'-0"



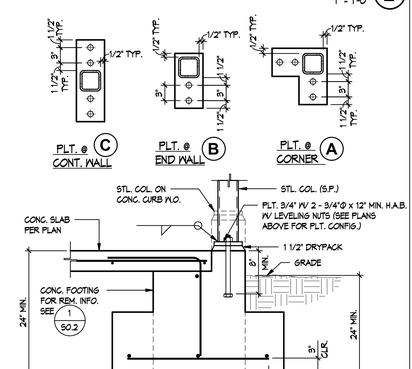

TYP - STEEL COL. ADJACENT TO METAL STUD WALL 6
1" = 1'-0"



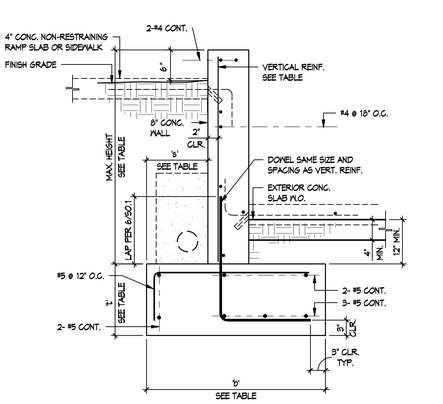

TYP - SLAB DETAIL AT WINDOW/DOOR OPENING 2
1" = 1'-0"




TYP - STEEL COL. TO PAD FOOTING 7
1" = 1'-0"




TYP - COLUMN IN WALL TO FTG. 3
1" = 1'-0"

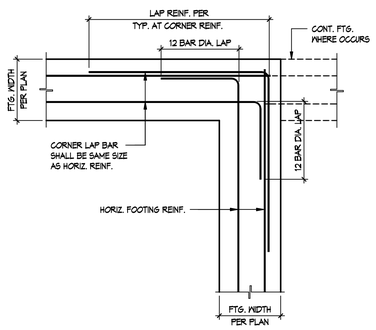



| h | b | VERT. REIN. | t | s |
|---|---|---|---|---|
| 2'-0" | 2'-0" | #5 @ 18" O.C. | 12" | * |
| 2'-6" | 2'-0" | #5 @ 18" O.C. | 12" | * |
| 3'-0" | 3'-0" | #5 @ 18" O.C. | 12" | * |
| 4'-0" | 3'-0" | #5 @ 18" O.C. | 12" | 6' |
| 4'-6" | 3'-0" | #5 @ 18" O.C. | 12" | 6' |
| 5'-0" | 6'-0" | #5 @ 12" O.C. | 24" | 6' |
| 6'-0" | 6'-0" | #5 @ 12" O.C. | 24" | 6' |

*CENTER WALL ON FTG.




TYP - RETAINING WALL DETAIL - CONCRETE 16
1" = 1'-0"




TYP - REINF. AT FTG CORNERS AND INTERSECTIONS 12
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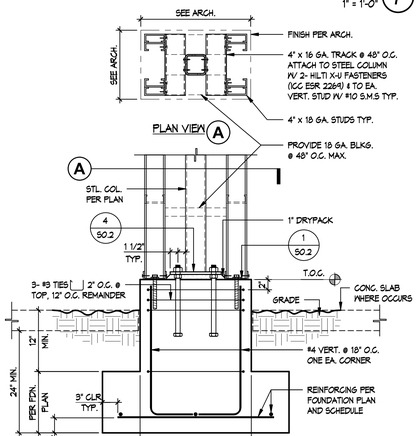
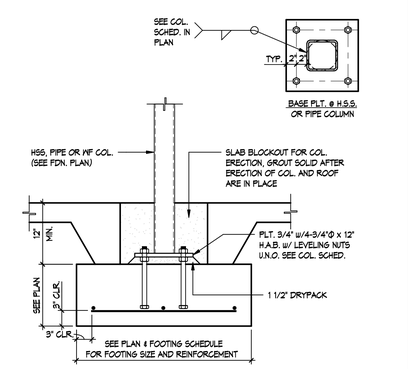



TYP - EXTERIOR PILASTER DETAIL 8
1" = 1'-0"




TYP - STEEL COLUMN TO PAD FOOTING 4
1" = 1'-0"

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Rancho Cucamonga
California 91730
P 909-987-0909

# CENTENNIAL HIGH SCHOOL AQUATICS CENTER

PROJECT ADDRESS:
1820 RIMPAU AVE.
CORONA, CA 92881

100% DESIGN DEVELOPMENT
DSA APPLICATION #: 04-122208
FILE #: 33-H4




Consultant




Architect




CLIENT
CNUSD

| DATE | PROJECT NUMBER |
|---|---|
| 5/5/2023 | |

REVISIONS

| No. | Description | Date |
|---|---|---|

100% DESIGN DEVELOPMENT

## FOUNDATION AND TYPICAL DETAILS

# S0.2

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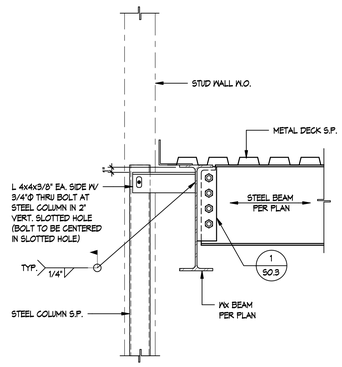
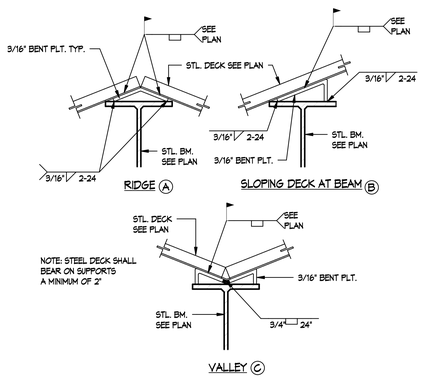
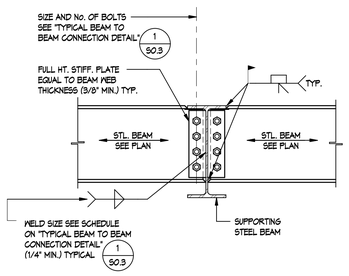


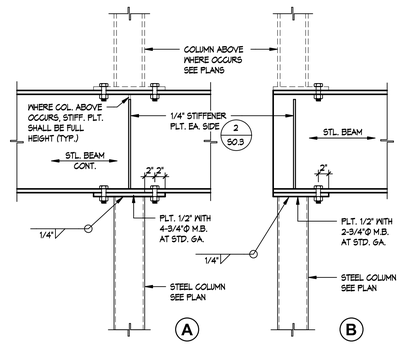

TYP - HSS COL. BRACE AT ROOF (17)
1" = 1'-0"



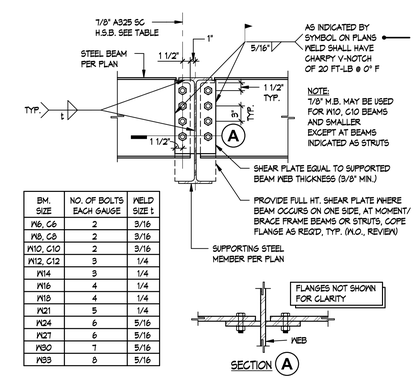

TYP - BENT PLATE TO STEEL BEAM (13)
1" = 1'-0"




TYP - BEAM TO BEAM MOMENT CONNECTION (9)
1" = 1'-0"

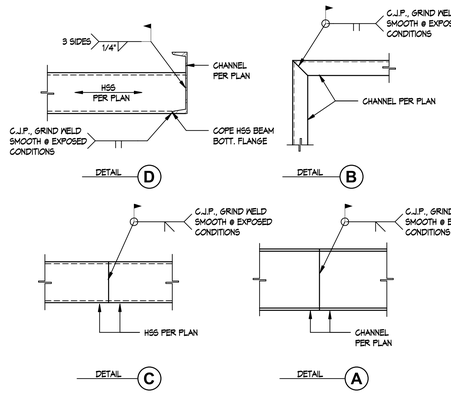



TYP - COLUMN TO BEAM DETAILS (5)
1" = 1'-0"

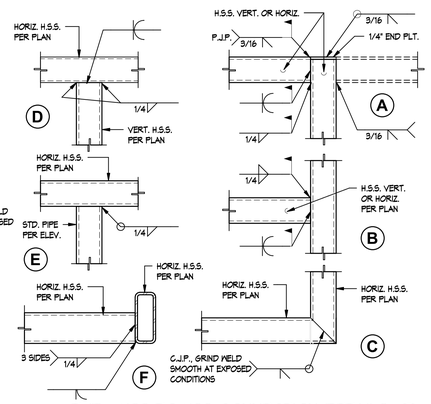



| BM. SIZE | NO. OF BOLTS EACH GAUGE | WELD SIZE t |
|---|---|---|
| W6, C6 | 2 | 5/16 |
| W8, C8 | 2 | 5/16 |
| W10, C10 | 2 | 5/16 |
| W12, C12 | 3 | 1/4 |
| W14 | 3 | 1/4 |
| W16 | 4 | 1/4 |
| W18 | 4 | 1/4 |
| W21 | 5 | 1/4 |
| W24 | 6 | 5/16 |
| W27 | 6 | 5/16 |
| W30 | 7 | 5/16 |
| W33 | 8 | 5/16 |

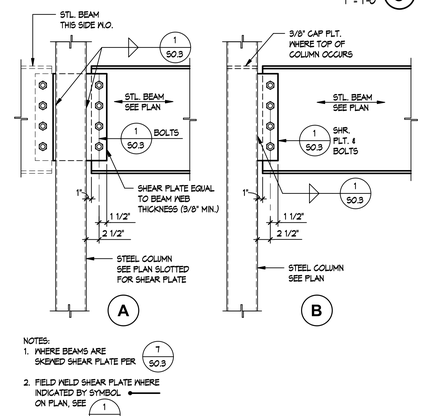
TYP - BEAM TO BEAM CONNECTION (1)
1" = 1'-0"



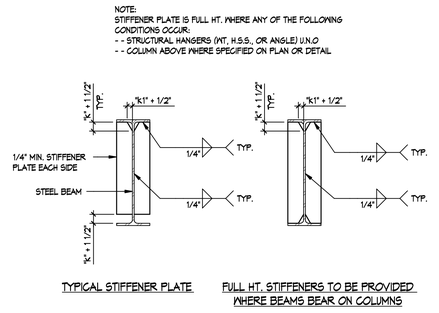

TYP - CHANNEL DETAILS (14)
1" = 1'-0"



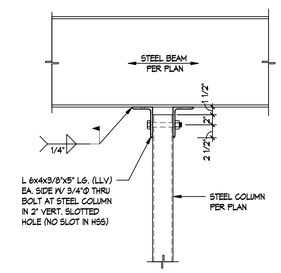

TYP - HSS TO HSS CONNECTION DETAILS (10)
1" = 1'-0"



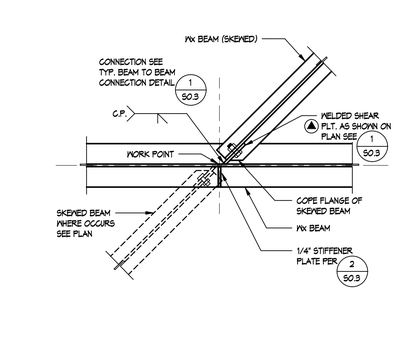

TYP - BEAM TO HSS/PIPE CONN. (6)
1" = 1'-0"



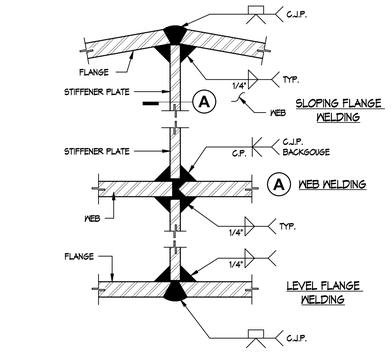

TYP - STIFFENER PLATE DETAIL (2)
1" = 1'-0"



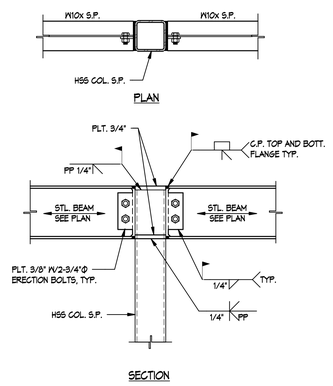

TYP - NON-BEARING COL. TO BEAM ABOVE (19)
1" = 1'-0"



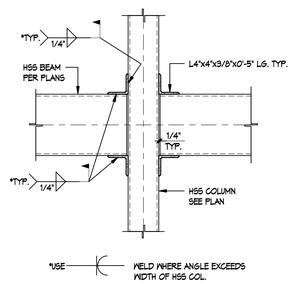

TYP - SKEWED BEAM CONNECTION (7)
1" = 1'-0"



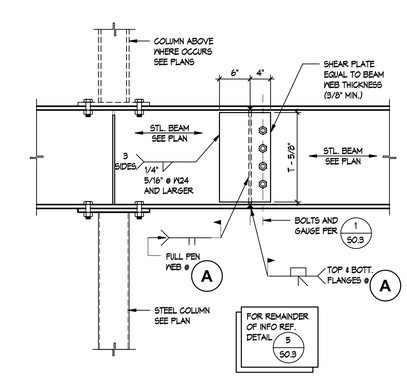

TYP - BENT BEAM WELDING (3)
1" = 1'-0"




TYP - BEAM TO HSS COL. MOM. CONNECTION (20)
1" = 1'-0"




TYP - HSS BEAM TO HSS COL. DETAIL (16)
1" = 1'-0"




TYP - BEAM TO COLUMN CANTILEVER (4)
1" = 1'-0"

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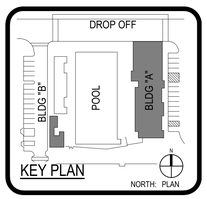


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CNUSD

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**TYPICAL STEEL AND MISC. DETAILS**

**S0.3**

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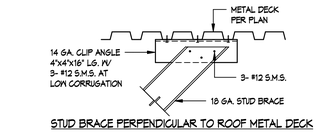
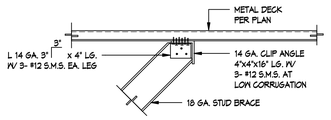
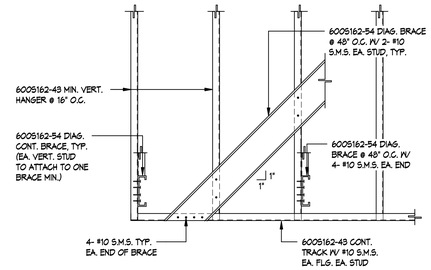


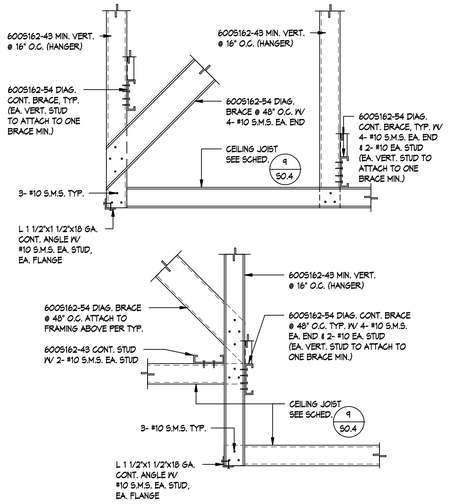

STUD BRACE PERPENDICULAR TO ROOF METAL DECK



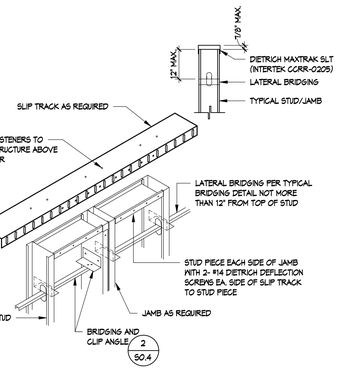

STUD BRACE PARALLEL TO ROOF METAL DECK

## TYP - MTL. STUD BRACE ATTACHMENT TO ROOF DECK (17)
1" = 1'-0"

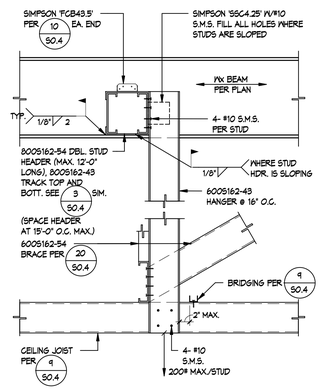


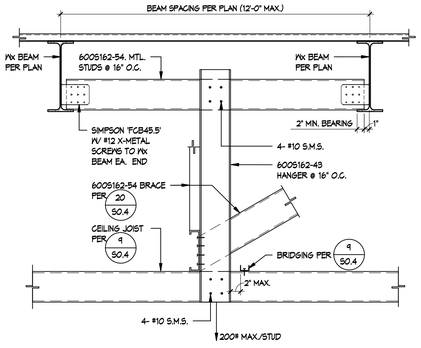

## TYP - SOFFIT FRAMING (20)
1" = 1'-0"




## TYP - SLIP TRACK DETAIL (13)
1" = 1'-0"

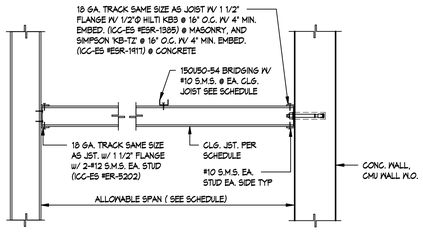



## TYP - CLG. JOIST PARALLEL TO STEEL BEAM (14)
1" = 1'-0"

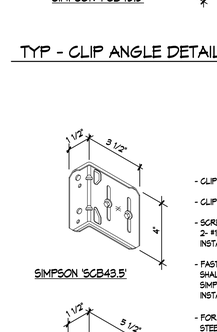



## TYP - CLG. JOIST PERPENDICULAR TO STEEL BEAM (15)
1" = 1'-0"

| CEILING JOIST SCHEDULE 18 P.S.F. L/360 | ICC ESR-3064P | | ALLOW. SPAN | BRIDGING |
|---|---|---|---|---|
| | $S_x$[3] | $I_x$[4] | | |
| GYPSUM BOARD CEILINGS 13 P.S.F. (D.L.) L/240 (INTERIOR) | | | | |
| 6005162-43 18 GA. @ 16" O.C. | 0.712 | 2.316 | 17'-11" | ONE LOCATED AT MIDSPAN |
| 4005162-43 18 GA. @ 16" O.C. | 0.446 | 0.842 | 15'-0" | ONE LOCATED AT MIDSPAN |
| PLASTER CEILINGS 20 P.S.F. (D.L.) L/360 | | | | |
| 6005162-43 18 GA. @ 16" O.C. | 0.712 | 2.316 | 15'-7" | ONE LOCATED AT MIDSPAN |
| 4005162-43 18 GA. @ 16" O.C. | 0.446 | 0.842 | 11'-4" | ONE LOCATED AT MIDSPAN |




## TYP - METAL STUD CEILING JOIST SCHED. (9)
1" = 1'-0"



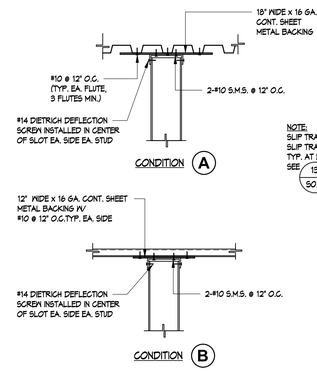

- CLIP IS SIMPSON 'FCB' BYPASS FRAMING FIXED-CLIP
- CLIP IS 16 GA MATERIAL (50ksi)
- SCREWS TO METAL STUDS SHALL BE #12-14 S.M.S., FILL ALL ROUND HOLES TYP., U.N.O. ON SECTIONS
- FASTENERS TO STRUCTURAL STEEL SHALL BE 3- #12 SELF-DRILLING SCREWS SIMPSON 'X-METAL SCREW', INSTALL IN TOP THREE ANCHOR HOLES
- FOR SCREW FASTENER INSTALLATION INTO STEEL BACKED BY CONCRETE, PRE-DRILL STEEL & CONCRETE, MAX. 3/16"Ø DRILL BIT
- IAPMO-UES ER-0238

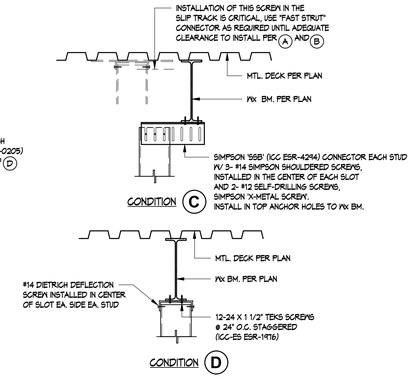
## TYP - CLIP ANGLE DETAIL (SIMPSON - FCB) (10)
1" = 1'-0"



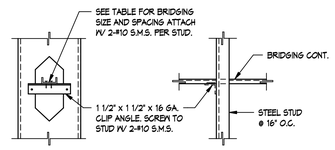

- CLIP IS SIMPSON 'SCB' BYPASS FRAMING SLIDE-CLIP
- CLIP IS 16 GA MATERIAL (50ksi)
- SCREWS TO METAL STUDS SHALL BE 2- #14 SIMPSON SHOULDERED SCREWS, INSTALLED IN THE CENTER OF EACH SLOT
- FASTENERS TO STRUCTURAL STEEL SHALL BE 3- #12 SELF-DRILLING SCREWS SIMPSON 'X-METAL SCREW', INSTALL IN TOP ANCHOR HOLES
- FOR SCREW FASTENER INSTALLATION INTO STEEL BACKED BY CONCRETE, PRE-DRILL STEEL & CONCRETE, MAX. 3/16"Ø DRILL BIT
- IAPMO-UES ER-0238

## TYP - DEFLECTION CLIP DETAILS (SIMPSON - SCB) (11)
1" = 1'-0"

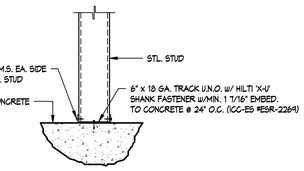


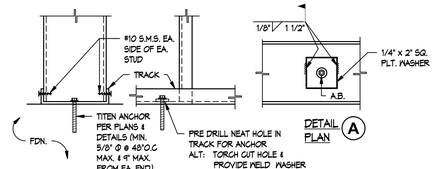

## TYP - NON-BEARING STUD PARTITION TO STEEL (12)
1" = 1'-0"




STUD BRIDGING DETAIL




TYP. NON-BEARING STUD CONNECTION

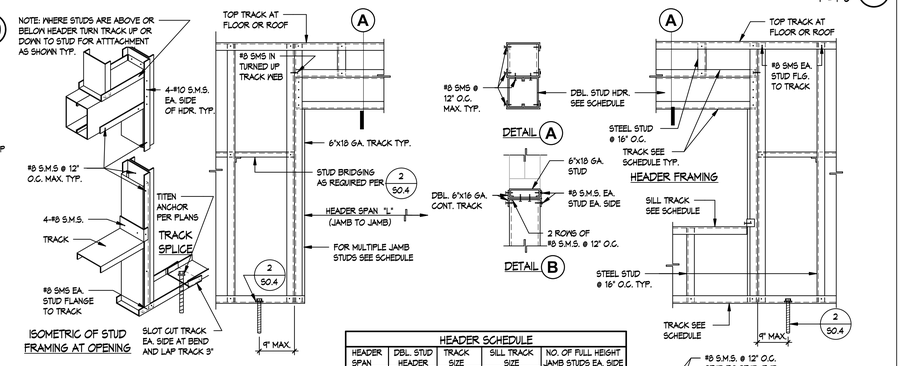



STUD TO TRACK DETAIL

| STEEL STUD PROPERTIES (ICC-ES #ESR-4943P) | | | | STUD BRACING REQUIREMENTS | | ALLOWABLE WALL HEIGHTS L/120 (LAT. LD=5psf NON-BEARING) | | ALLOWABLE WALL HEIGHTS L/240 (LAT. LD=25psf NON-BEARING) | |
|---|---|---|---|---|---|---|---|---|---|
| SIZE/TYPE | GA. | $I_x$[4] | $S_x$[3] | SIZE | MAX. O.C. SPACING | STUD @16" O.C. | STUD @12" O.C. | STUD @16" O.C. | STUD @12" O.C. |
| 1200S200-68(50KSI) | 14 | 21.141 | 3.265 | 150S5-54 MIN. | 4'-0" | --- | --- | --- | --- |
| 1200S162-43(33KSI) | 18 | 8.025 | 1.605 | | 4'-0" | --- | --- | --- | --- |
| 800S162-43(33KSI) | 18 | 4.633 | 1.158 | | 4'-0" | 42'-10" | 44'-2" | 16'-2"* | 18'-0"* |
| 600S162-68(50KSI) | 14 | 3.525 | 1.175 | | 4'-0" | 41'-1" | 42'-3" | 21'-6" | 23'-8" |
| 600S162-54(50KSI) | 16 | 2.86 | 0.953 | | 4'-0" | 38'-4" | 42'-2" | 20'-0" | 33'-1" |
| 600S162-43(33KSI) | 18 | 2.316 | 0.767 | | 4'-0" | 35'-4" | 37'-4" | 14'-4"* | 16'-7"* |
| 400S162-43(33KSI) | 18 | 0.842 | 0.443 | | 4'-0" | 26'-0" | 28'-7" | 10'-10" | 14'-10" |
| 600S162-33(33KSI) | 20 | 1.749 | 0.571 | | 4'-0" | 30'-9" | 35'-6" | | |
| 400S162-33(33KSI) | 20 | 0.842 | 0.332 | | 4'-0" | 23'-11" | 28'-3" | | |
| 1200T150-68(50KSI) | 14 | 11.740 | 2.207 | | | | | | |
| 600T150-68(50KSI) | 14 | 3.262 | 0.963 | | | | | | |
| 800T150-43(33KSI) | 18 | 3.825 | 0.741 | | | | | | |
| 600T150-43(33KSI) | 18 | 1.868 | 0.534 | | | | | | |
| 400T150-43(33KSI) | 18 | 0.719 | 0.293 | | | | | | |
| 600T150-33(33KSI) | 20 | 1.385 | 0.395 | | | | | | |
| 400T150-33(33KSI) | 20 | 0.514 | 0.208 | | | | | | |

NOTE: STEEL STUD BRIDGING IS REQUIRED WHEN EITHER STUD FLANGE IS NOT CONTINUOUSLY BRACED BY SOLID SHEATHING SUCH AS GYP. BOARD, PLYWOOD, OR PLASTER. (MIN. 33ksi)

## TYP - STEEL STUD PROP. AND DETAILS (2)
1" = 1'-0"




| HEADER SCHEDULE | | | | |
|---|---|---|---|---|
| HEADER SPAN | DBL. STUD HEADER | TRACK SIZE | SILL TRACK SIZE | NO. OF FULL HEIGHT JAMB STUDS EA. SIDE |
| L ≤ 4'-0" | 4" x 18 GA. | 6" x 18 GA. | 6" x 18 GA. | 2 |
| L ≤ 8'-0" | 6" x 18 GA. | 6" x 18 GA. | 6" x 18 GA. | 3 |
| L ≤ 10'-0" | 8" x 16 GA. | 6" x 16 GA. | 6" x 18 GA. | 4 |
| L ≤ 12'-0" | 10" x 16 GA. | 6" x 14 GA. | SEE DETAIL B | 4 |
| L ≤ 15'-0" | 10" x 16 GA. | 6" x 14 GA. | SEE DETAIL B | 5 |

## TYP - METAL STUD FRAMING DETAILS (3)
1" = 1'-0"

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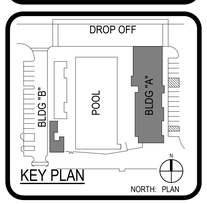
FILE #: 33-H4 DSA APPLICATION #: 04-122208



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Architect




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|---|---|
| 5/5/2023 | |

REVISIONS

| No. | Description | Date |
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100% DESIGN DEVELOPMENT

**METAL STUD AND MISC. DETAILS**

**S0.4**

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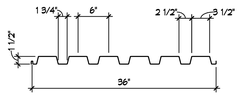
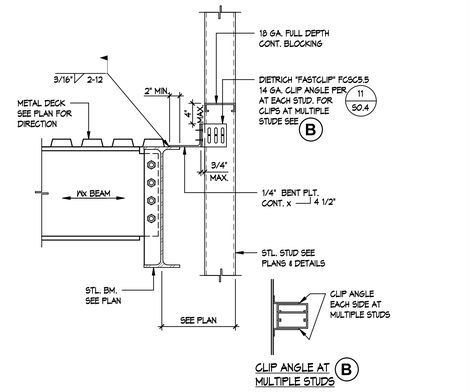



"PLB-36/HSB-36" DECK PROFILE

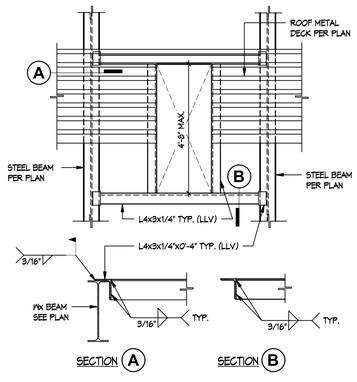
| SECTION PROPERTIES (PER FOOT OF WIDTH) VERCO PLB-36/HSB-36 DECK (IAPMO ER #211) | | | |
|---|---|---|---|
| GA | I (IN⁴) | +S (IN³) | -S (IN³) |
| 22 | .193 | .176 | .188 |
| 20 | .231 | .230 | .237 |
| 18 | .306 | .314 | .331 |
| 16 | .381 | .399 | .410 |

TYP - PLB/HSB-36 DECK PROPERTIES 5
1" = 1'-0"



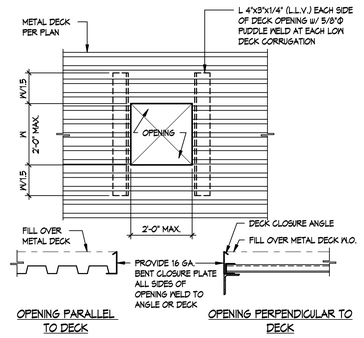

CLIP ANGLE AT (B) MULTIPLE STUDS

TYP - DEFLECTION CLIP ATTACHMENT AT ROOF BEAM 1
1" = 1'-0"

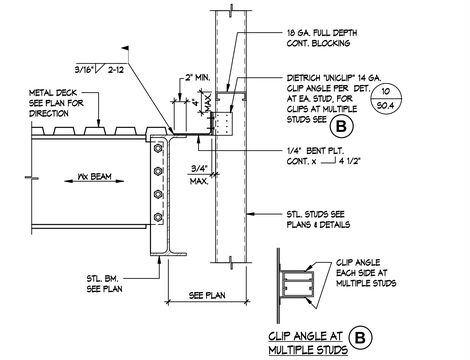



NOTE: PROVIDE ROOF DECK WELD ATTACHMENTS PER ROOF NOTES TO EA. ANGLE TYP.

TYP - ROOF OPENING DETAIL 10
1" = 1'-0"

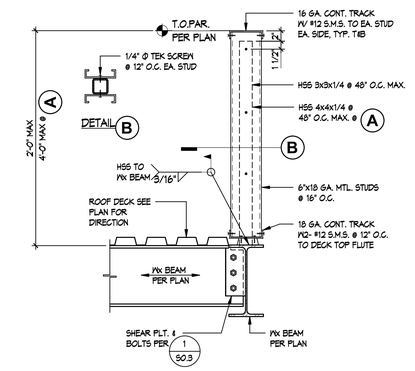



TYP - ROOF DECK OPENING 6
1" = 1'-0"

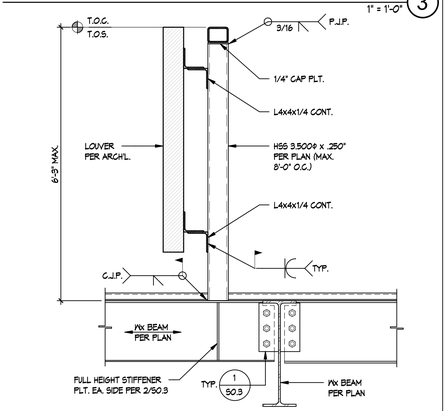



CLIP ANGLE AT (B) MULTIPLE STUDS

TYP - RIGID CLIP ATTACHMENT AT ROOF STEEL BEAM 2
1" = 1'-0"




TYP - MTL. STUD PARAPET ON W BEAM 3
1" = 1'-0"




TYP - SCREEN WALL DETAIL 4
1" = 1'-0"

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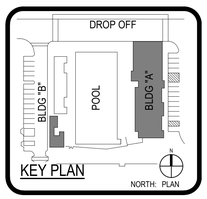
**CENTENNIAL HIGH SCHOOL AQUATICS CENTER**

**PROJECT ADDRESS:**
1820 RIMPAU AVE.
CORONA, CA 92881

**100% DESIGN DEVELOPMENT**
FILE #: **33-H4** DSA APPLICATION #: **04-122208**




KEY PLAN NORTH: PLAN

Consultant

REGISTERED PROFESSIONAL ENGINEER Ryan M. Bell No. 93332 STRUCTURAL STATE OF CALIFORNIA
FOR PLAN CHECK ONLY

Architect

LICENSED ARCHITECT David T. Blair No. C-30414 REN 11-30-2024 STATE OF CALIFORNIA
FOR PLAN CHECK ONLY

CLIENT
CNUSD

| DATE | PROJECT NUMBER |
|---|---|
| 5/5/2023 | |

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| No. | Description | Date |
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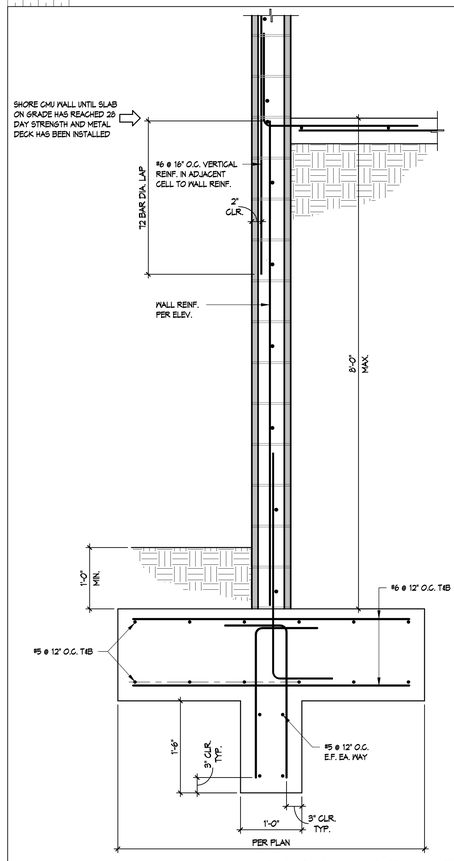
**100% DESIGN DEVELOPMENT**

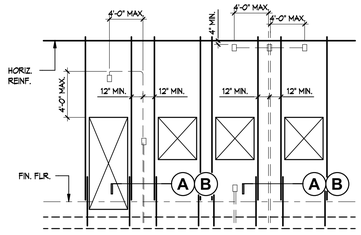
**METAL STUD, METAL DECK AND MISC. DETAILS**

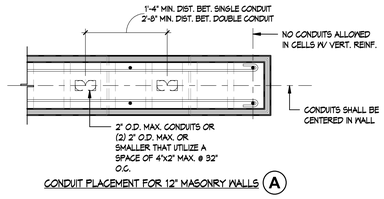
**S0.5**



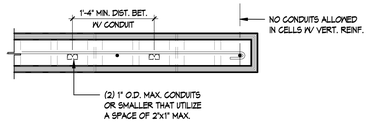

CMU RETAINING WALL (18) 1" = 1'-0"

NOTES:
1. 1" O.D. MAX. AT 8" WALLS, 2" O.D. MAX. AT 12" WALLS
2. ONLY STEEL OR PVC, ALUMINUM CONDUITS ARE RESTRICTED FROM USE.
3. CONDUITS SHALL NOT BE ALLOWED IN ANY OF THE FOLLOWING CONDITIONS:
   A. ANY VERTICAL CELL CONTAINING REINFORCING.
   B. WITHIN 6" OF ANY HORIZONTAL BARS EXCEPT AT CROSSINGS.
4. NO JUNCTION BOXES ARE ALLOWED WHERE VERTICAL REBARS ARE SPACED AT 8" O.C.
5. HORIZONTAL CONDUIT RUNS SHALL NOT EXCEED 4'-0".
6. CONDUITS SHALL NOT BE PLACED IN BOND BEAMS.
7. ALL HORIZONTAL CONDUITS SHALL BE A MINIMUM OF 6" AWAY FROM HORIZONTAL BARS.
8. STRUCTURAL ENGINEER RESERVES THE RIGHT TO MODIFY OR RESTRICT THE USE OF THESE RULES BASED ON ACTUAL FIELD CONDITIONS AND QUALITY EXECUTION.

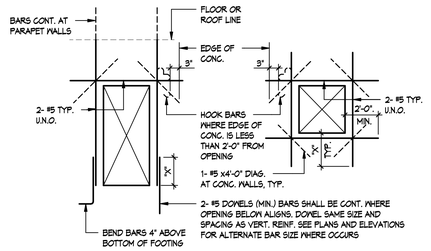



CONDUIT PLACEMENT FOR 12" MASONRY WALLS (A)



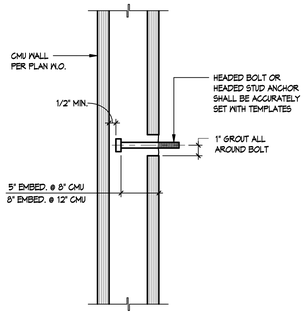

CONDUIT PLACEMENT FOR 8" MASONRY OR CONC. WALLS (B)



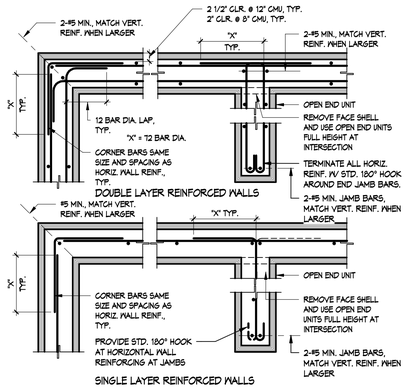

DOOR OPENING WALL OR SLAB OPENING

NOTES:
1. OMIT DIAGONAL BARS AT MASONRY WALLS
2. "X" = 72 BAR DIA. LAP AT MASONRY JAMB REINFORCEMENT
   "X" = LAP REINF. PER DET. 6/S0.1 AT CONCRETE

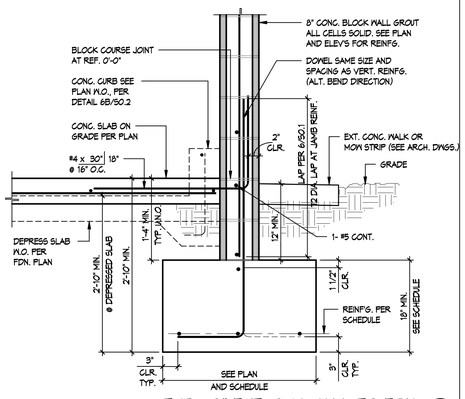
TYP - MASONRY AND CONC. OPENING REINF. DETAIL (9) 1" = 1'-0"



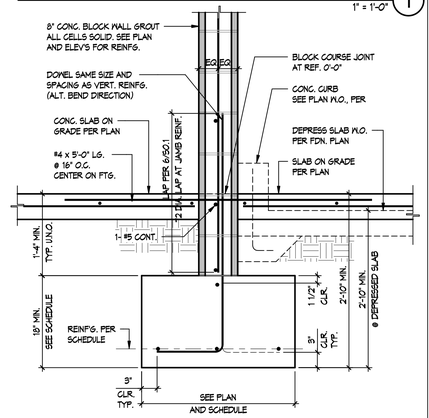

TYP - BOLT IN CMU WALL (10) 1" = 1'-0"



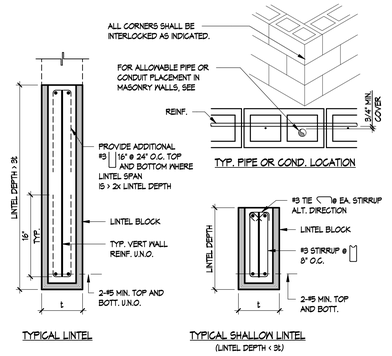

TYP - MASONRY WALL REINF. DETAILS (6) 1" = 1'-0"



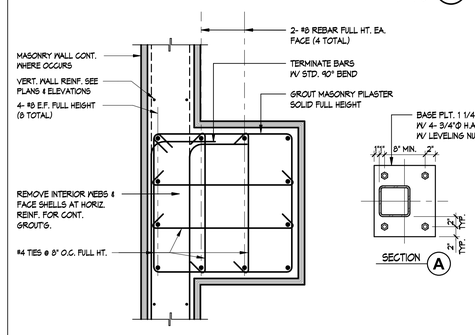

TYP - 8" EXT. CMU WALL TO FDN. (1) 1" = 1'-0"



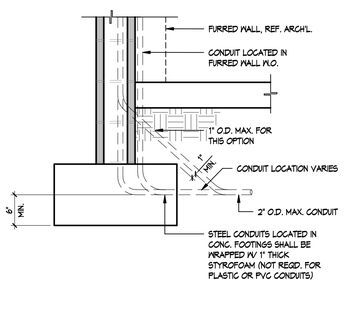

TYP - 8" INT. CMU WALL TO FDN. (2) 1" = 1'-0"

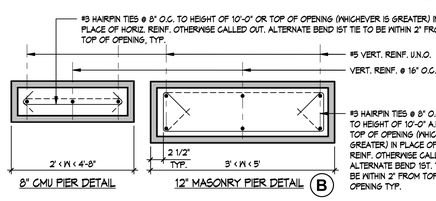


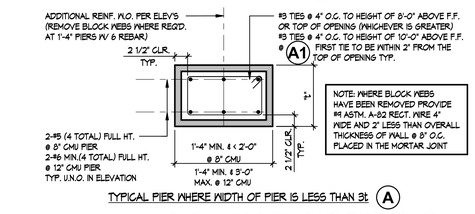

TYP - MASONRY WALL REINF. DETAILS (6) 1" = 1'-0"



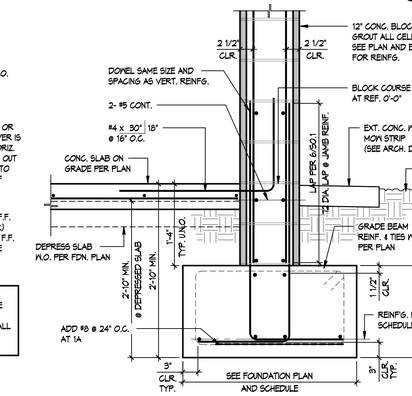

TYP - CONDUIT IN MASONRY WALL (15) 1" = 1'-0"



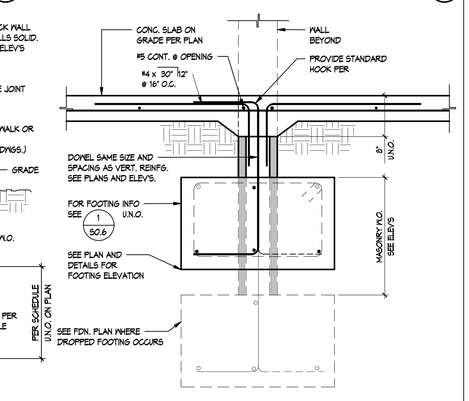



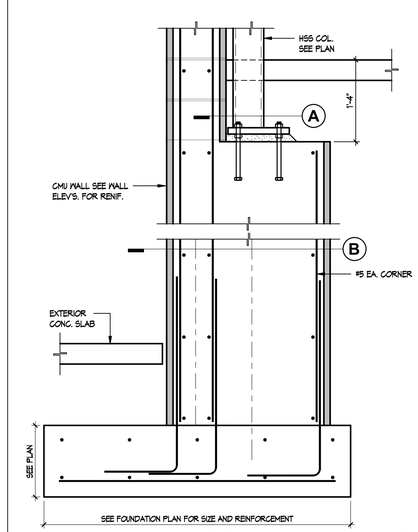

TYP - MASONRY PIER DETAILS (11) 1" = 1'-0"



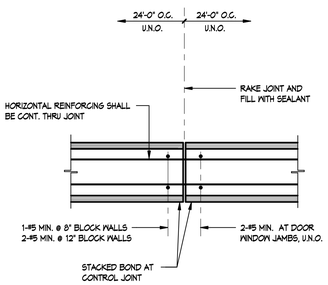

TYP - 12" EXT. CMU WALL TO FDN. (7) 1" = 1'-0"



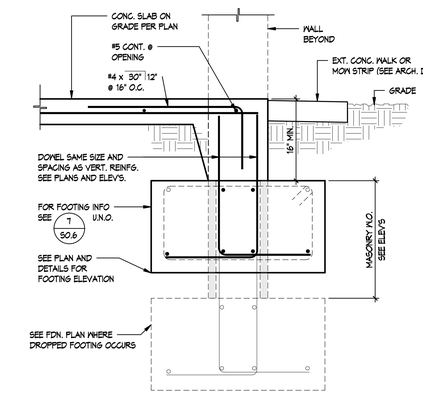

TYP - SLAB DETAIL AT INT. 8" CMU OPENING (3) 1" = 1'-0"



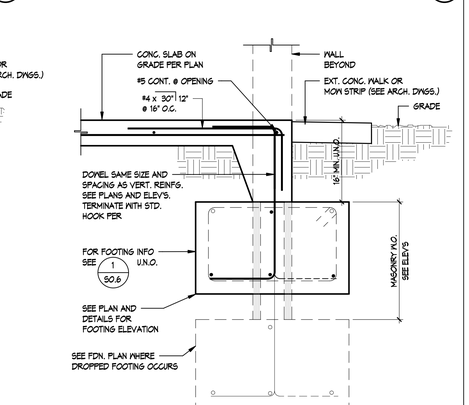

STL. COLUMN ADJACENT TO MAS. WALL FTG. DETAIL (20) 1" = 1'-0"




TYP - MASONRY WALL CONSTRUCTION JOINT (12) 1" = 1'-0"




TYP - SLAB DETAIL AT EXT. 12" CMU OPENING (8) 1" = 1'-0"




TYP - SLAB DETAIL AT EXT. 8" CMU OPENING (4) 1" = 1'-0"

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California 91730
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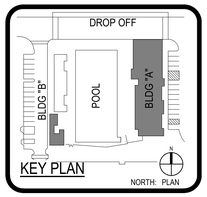
**CENTENNIAL HIGH SCHOOL AQUATICS CENTER**

PROJECT ADDRESS:
1820 RIMPAU AVE.
CORONA, CA 92881

100% DESIGN DEVELOPMENT DSA APPLICATION #: 04-122208
FILE #: 33-H4






Consultant




Architect




CLIENT
CNUSD

DATE 5/5/2023 PROJECT NUMBER

REVISIONS

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|---|---|---|

100% DESIGN DEVELOPMENT

**TYP. MASONRY AND MISC. DETAILS**

**S0.6**

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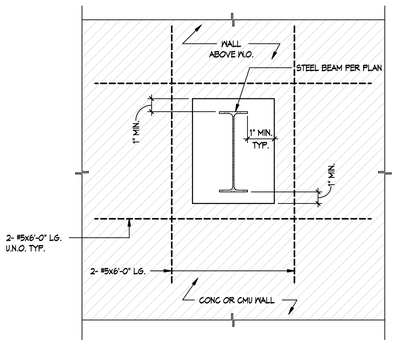
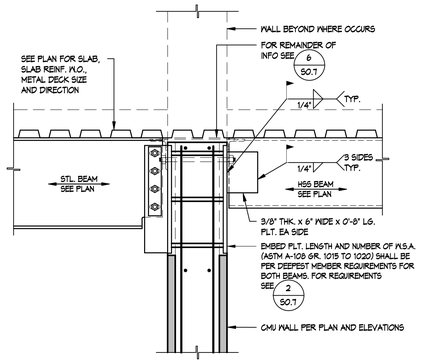
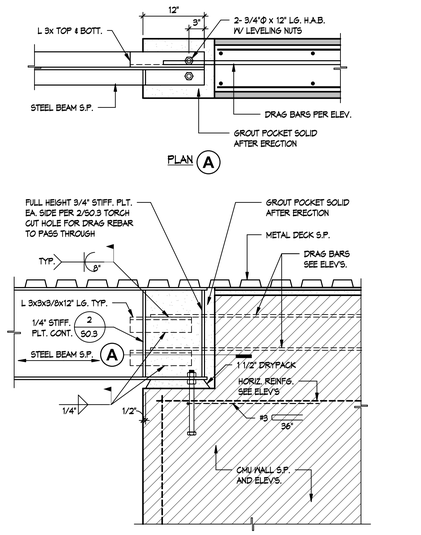


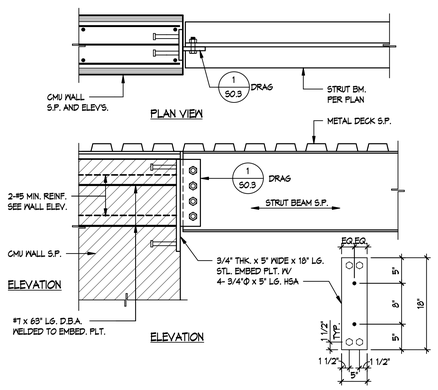

TYP - BEAM THROUGH WALL 17
1" = 1'-0"




BACK TO BACK TO MASONRY WALL DETAIL 13
1" = 1'-0"



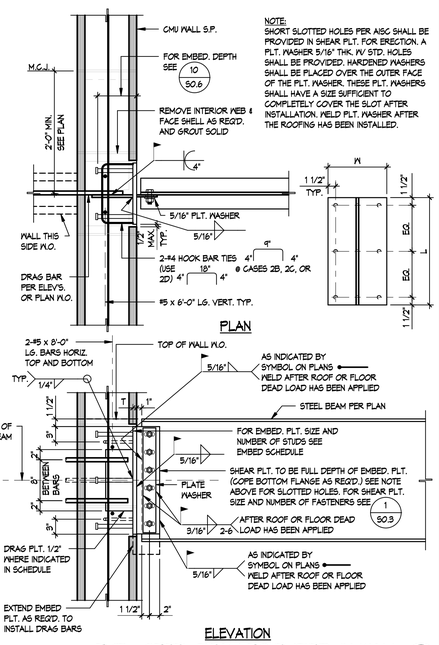

TYP - STEEL BEAM DRAG TO CMU WALL 9
1" = 1'-0"




STEEL BEAM TO CMU WALL DRAG DETAIL 5
1" = 1'-0"

EMBED. PLATE AND BOLT SCHEDULE

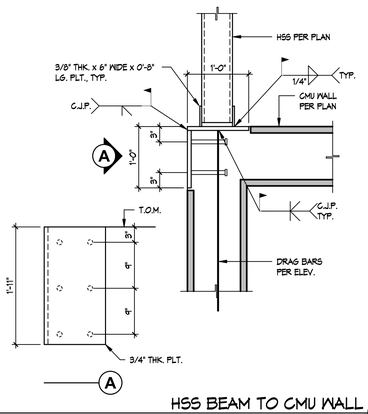
| | BEAM SIZE | EMBED. PLT. SIZE T | W | L | NUMBER OF HEADED STUD ANCHORS AND SIZE | DRAG PLT. |
|---|---|---|---|---|---|---|
| 2 | W8x TO W10x | 3/4" | 12" | 12" | 4-3/4"Ø H.S.A. IN 2 VERT. ROWS | NO |
| | W12x TO W18x, C12x | 3/4" | 12" | 21" | 6-3/4"Ø H.S.A. IN 2 VERT. ROWS | NO |
| | W21x TO W24x | 3/4" | 12" | 30" | 8-3/4"Ø H.S.A. IN 2 VERT. ROWS | NO |
| | W27x | 7/8" | 12" | 39" | 10-3/4"Ø H.S.A. IN 2 VERT. ROWS | NO |
| 2A | W8 PER PLAN | 7/8" | 21" | 21" | 6-3/4"Ø H.S.A. IN 3 VERT. ROWS | NO |
| 2B | W8 PER PLAN | 7/8" | 21" | 30" | 12-3/4"Ø H.S.A. IN 3 VERT. ROWS | NO |
| 2C | W8 PER PLAN | 7/8" | 21" | 39" | 15-7/8"Ø H.S.A. IN 3 VERT. ROWS | NO |
| 2D | W21x | 7/8" | 21" | 30" | 12-3/4"Ø H.S.A. IN 3 VERT. ROWS | YES |
| 2E | W12x TO W18x | 3/4" | 21" | 21" | 6-3/4"Ø H.S.A. IN 3 VERT. ROWS | YES |



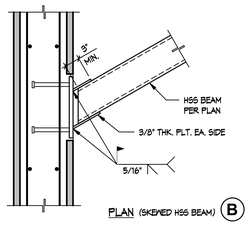

NOTE:
SHORT SLOTTED HOLES PER AISC SHALL BE PROVIDED IN SHEAR PLT. FOR ERECTION. A PLT. WASHER 5/16" THK. W/ STD. HOLES SHALL BE PROVIDED. HARDENED WASHERS SHALL BE PLACED OVER THE OUTER FACE OF THE PLT. WASHER. THESE PLT. WASHERS SHALL HAVE A SIZE SUFFICIENT TO COMPLETELY COVER THE SLOT AFTER INSTALLATION. WELD PLT. WASHER AFTER THE ROOFING HAS BEEN INSTALLED.

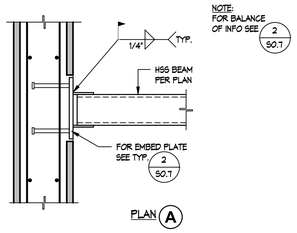


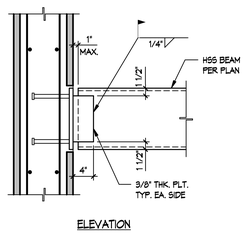

TYP - STEEL BEAM TO EMBED. IN WALL 2
1" = 1'-0"

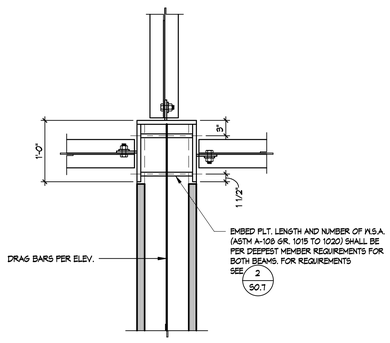



HSS BEAM TO CMU WALL 18
1" = 1'-0"

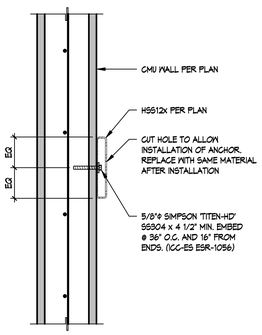


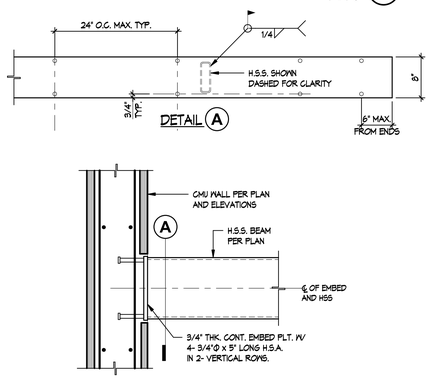



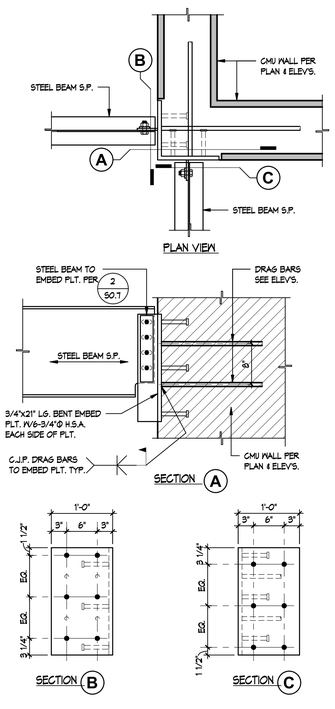

STEEL BEAM TO CMU WALL 19
1" = 1'-0"



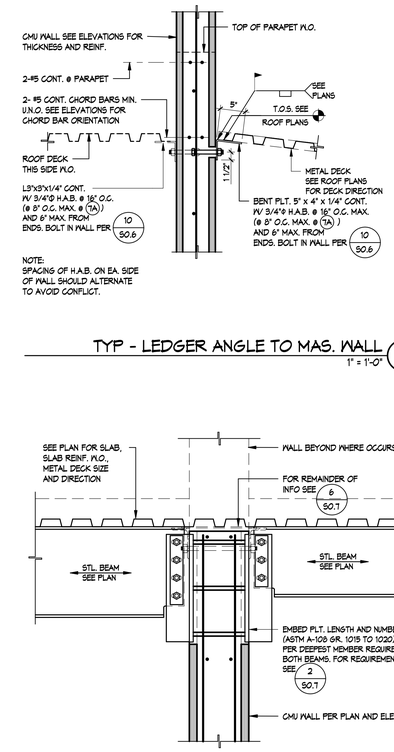

Drafting 2 20
1" = 1'-0"




HSS TO MASONRY WALL 16
1" = 1'-0"



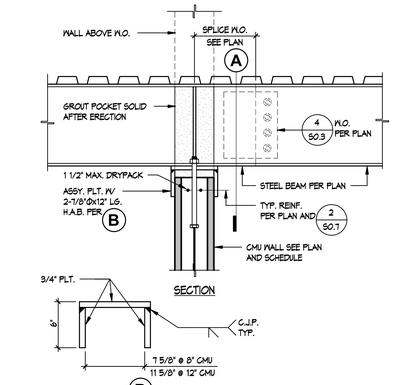

TYP - STEEL BEAM TO CMU CORNER DETAIL 12
1" = 1'-0"

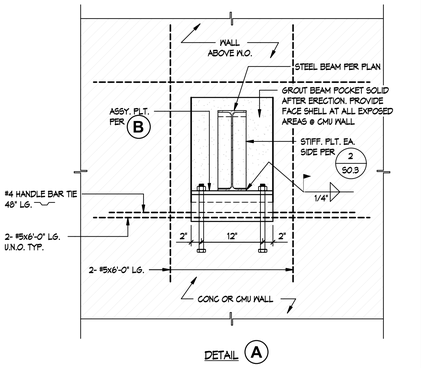



TYP - LEDGER ANGLE TO MAS. WALL 7
1" = 1'-0"




TYP - BACK TO BACK TO MASONRY WALL DETAIL 8
1" = 1'-0"




TYP - BEAM THROUGH WALL WITH SPLICE 4
1" = 1'-0"

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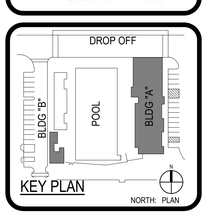
**CENTENNIAL HIGH SCHOOL AQUATICS CENTER**

PROJECT ADDRESS:
1820 RIMPAU AVE.
CORONA, CA 92881

100% DESIGN DEVELOPMENT
FILE #: 33-H4 DSA APPLICATION #: 04-122208

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| 5/5/2023 | |

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|---|---|---|

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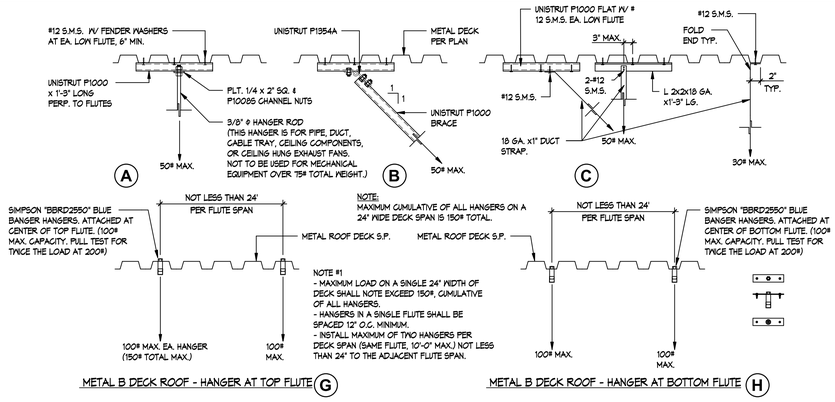
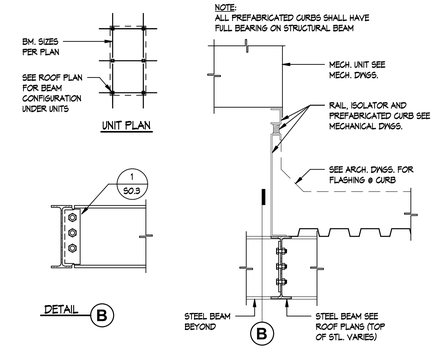
**TYP. MASONRY AND MISC. DETAILS**

**S0.7**




## TYP - HANGER ROD FOR PPIPING, CABLE TRAY AND EQUIPMENT WEIGHING LESS THAN 400 LBS 13

1" = 1'-0"

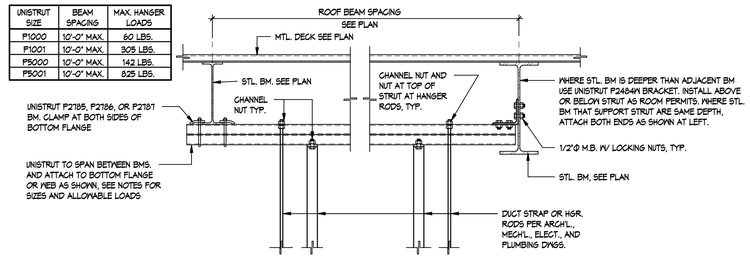



## TYP - MECH. UNIT CURB ATTACHMENT DETAIL 1

1" = 1'-0"

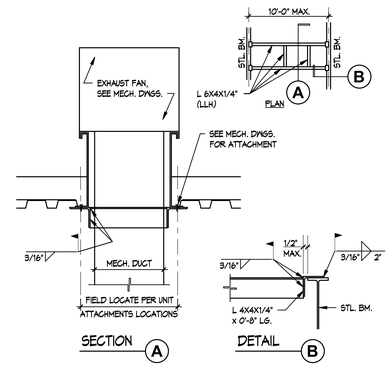
NOTES:
1. MAXIMUM ALLOWABLE HANGING LOADS TO BE AS FOLLOWS (MAXIMUM HANGER LOAD MAY BE FROM A SINGLE HANGER OR TOTAL LOAD FROM ALL HANGERS SUPPORTED FROM A COMMON STRUT)

| UNISTRUT SIZE | BEAM SPACING | MAX. HANGER LOADS |
|---|---|---|
| P1000 | 10'-0" MAX. | 60 LBS. |
| P1001 | 10'-0" MAX. | 305 LBS. |
| P5000 | 10'-0" MAX. | 142 LBS. |
| P5001 | 10'-0" MAX. | 825 LBS. |



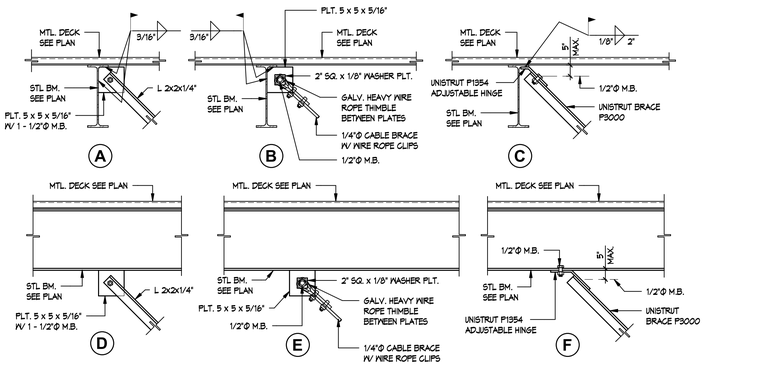

## TYP - PIPING, CABLE TRAY AND DUCT SUPPORT DETAIL 6

1" = 1'-0"



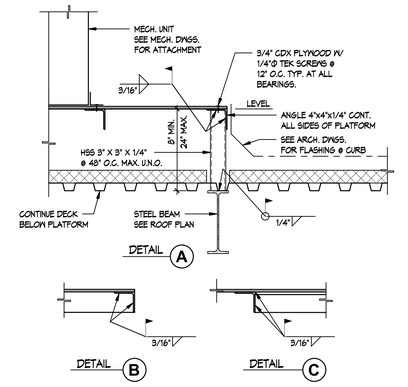

## TYP - EXHAUST FAN SUPPORT DETAIL 2

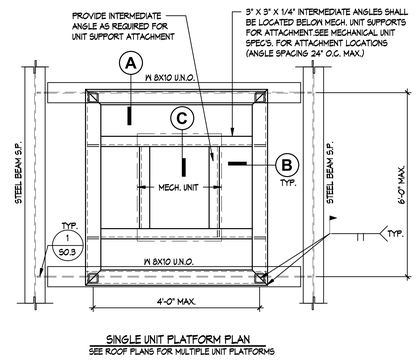
1" = 1'-0"




## TYP - SEISMIC BRACING DETAIL OF DUCTS, PIPING AND EQUIPMENT WEIGHING LESS THAN 400 LBS 7

1" = 1'-0"




## TYP - MECH. UNIT PLATFORM PLAN AND DETAILS 4

1" = 1'-0"

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**CENTENNIAL HIGH SCHOOL AQUATICS CENTER**

PROJECT ADDRESS:
1820 RIMPAU AVE.
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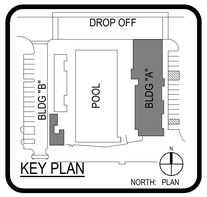
100% DESIGN DEVELOPMENT
DSA APPLICATION #: 04-122208
FILE #: 33-H4

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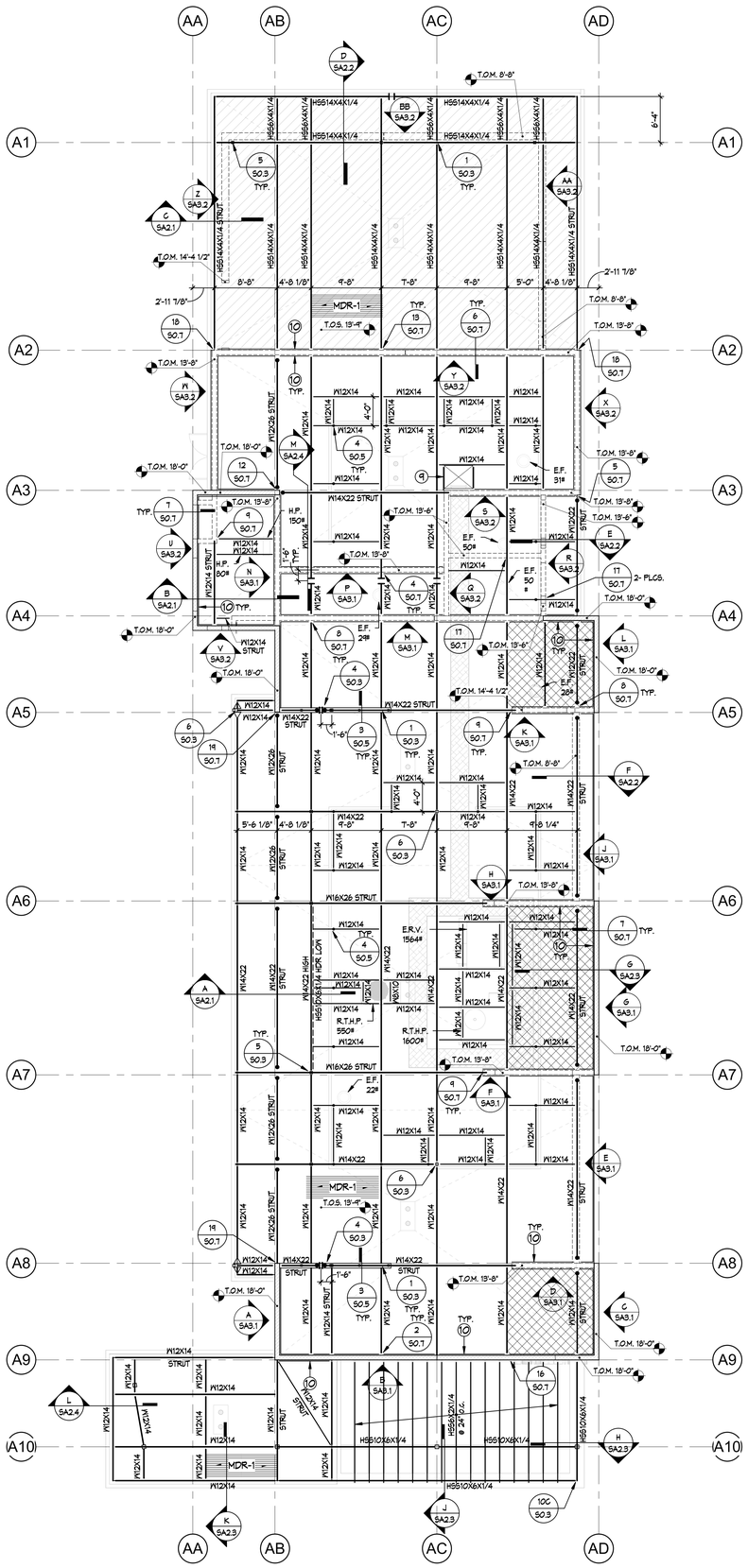
**MECHANICAL AND MISC. DETAILS**

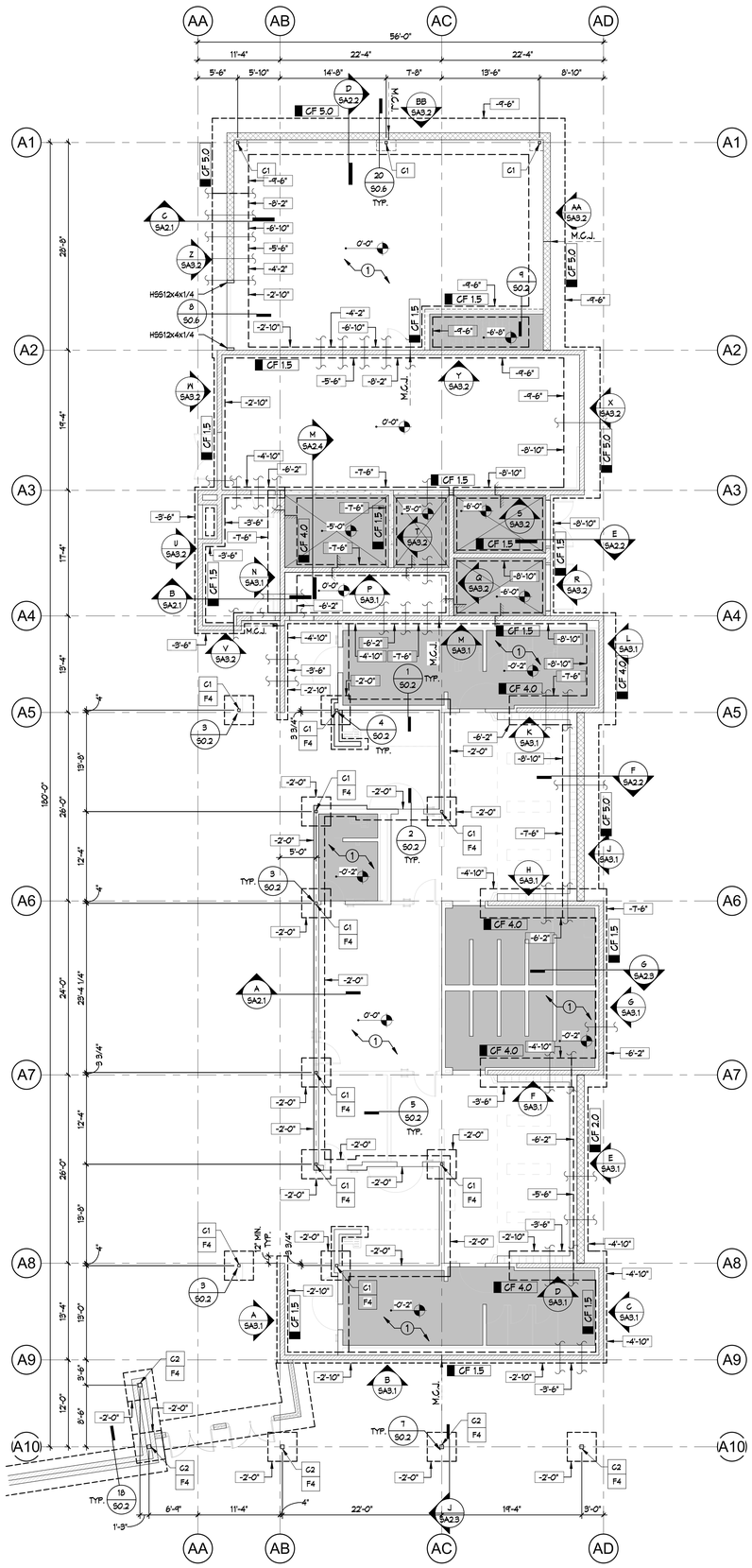
**S0.8**

SA1.1 - BUILDING A FOUNDATION/ROOF FRAMING PLAN




## ROOF PLAN BLDG A

1/8" = 1'-0"




## FOUNDATION PLAN BLDG A

1/8" = 1'-0"

### FOUNDATION PLAN NOTES

1. TYPICAL SLAB ON GRADE U.N.O.: 5" THICK CONCRETE SLAB w/ #4 @ 16" O.C. EACH WAY AT MID SLAB OVER 15 MIL. VAPOR BARRIER OVER 4" AGGREGATE BASE OVER COMPACTED FILL PER SPECIFICATIONS.
2. VERIFY ALL DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS.
3. SEE GENERAL NOTES AND ABBREVIATIONS ON SHEET S0.1.
4. TYPICAL FOUNDATION FORMING DETAILS PER 1/S0.1
5. STEP FOOTINGS PER 2/S0.1
6. STEP FOOTINGS AT PLUMBING LINES PER DETAIL 3/S0.1
7. TERMINATE ALL LONGITUDINAL FOOTING REINFORCING W/ STD. HOOK AT END OF ALL GRADE BEAMS.
8. SHADED AREA INDICATES EXTENTS OF SLAB DEPRESSION PER PLAN, VERIFY WITH ARCH'L. DRAWINGS.
9. C.J. INDICATES SLAB CONTROL JOINT PER DETAIL 5/S0.1
10. REINF. FOR CONTINUOUS FOOTINGS SHALL EXTEND THROUGH THE PAD FOOTINGS, WHERE OCCURS.
11. +0'-0" INDICATES BOTTOM OF FOOTING ELEVATION (FROM REFERENCE ELEVATION +0'-0")

### PAD FOOTING SCHEDULE

| MARK | PAD SIZE | REINFORCING |
|---|---|---|
| F4 | 4'-0"x4'-0"x1'-0" | 4- #5 BARS TOP & BOTTOM, EACH WAY |
| F10 | 10'-0"x9'-0"x2'-0" | #7 @ 12" O.C. EA. WAY TOP & BOTTOM |

### CONTINUOUS FOOTING SCHEDULE

| MARK | WIDTH | THICKNESS | REINFORCING |
|---|---|---|---|
| CF 1.5 | 1' - 6" | 1' - 6" | <varies> |
| CF 2.0 | 2' - 0" | 1' - 6" | 3- #5 TOP & BOTTOM |
| CF 4.0 | 4' - 0" | 1' - 6" | <varies> |
| CF 5.0 | 5' - 0" | 1' - 6" | <varies> |

### GRADE BEAM SCHEDULE

| MARK | WIDTH | THICKNESS | REINFORCING | TIE CONFIG. |
|---|---|---|---|---|

### COLUMN SCHEDULE

| MARK | COLUMN SIZE | BASE PLATE (U.N.O.) | WELD SIZE U.N.O. | SIZE AND NO. OF A.B. U.N.O. |
|---|---|---|---|---|
| C1 | HSS4X4X1/4 | 3/4" THK. | 5/16" | 4- 3/4" DIA. x 12" LONG A.B. |
| C2 | HSS6X6X5/8 | 1 1/4" THK. | C.J.P. | SEE DETAIL 7/S0.2 |

### ROOF FRAMING NOTES

1. MDR-1: 1 1/2" X 18 GA. GALVANIZED VERCO TYPE PLB-36 DECK (IAPMO ER #217) w/ 5/8" Ø PUDDLE WELD @ 12" O.C. AT ALL SUPPORTS PARALLEL TO CORRUGATIONS AND 5/8" Ø PUDDLE WELD AT EACH LOW CORRUGATION PERPENDICULAR TO SUPPORTS. ATTACH SEAMS w/ PUNCHLOCK (V.S.C. II) @ 18" O.C. THRU OUT U.N.O., DECK SHALL BE CONTINUOUS OVER 2 OR MORE SPANS. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INSULATING REQUIREMENTS. FOR PROFILE SEE 5/S0.5

   MDR-2: 1 1/2" X 18 GA. GALVANIZED HSB-66-36 ROOF DECK BY VERCO MANUFACTURING CO. (IAPMO ER #217) w/ NO. 12-24 x 7/8" LG. TEKS 4 HEX WASHER HEAD WITH NEOPRENE WASHERS @ 6" O.C. EA. BEARING, STAGGER BOTH SIDES OF BEAM. ATTACH SIDE LAPS WITH NO. 12-24 x 3/4" LG. TEKS 1 HEX WASHER HEAD WITH NEOPRENE WASHERS @ 24" O.C. (ICC-ES ESR-3056)

2. CONTRACTOR AND MECHANICAL CONTRACTOR SHALL PROVIDE ALL DIMENSIONS FOR THE MECHANICAL EQUIPMENT SUPPORT MEMBERS AND PENETRATIONS TO THE STRUCTURAL STEEL FABRICATOR PRIOR TO THE SHOP DRAWING PHASE. VERIFY ANY DIMENSIONS SHOWN IN THE DRAWINGS.
3. FOR MECHANICAL UNIT FRAMING ( # DENOTES MECH'L UNIT WEIGHT) SEE DETAILS 1/S0.8, 2/S0.8, 4/S0.8
4. ALL PENETRATIONS THRU ROOF DECK 24" AND SMALLER SHALL BE FRAMED PER 6/S0.5 U.N.O. ON PLANS.
5. DENOTES NON SEISMIC MOMENT BEAM TO BEAM CONNECTION PER 9/S0.3
6. COORDINATE ALL TOP OF STEEL ELEVATIONS (T.O.S.) WITH ARCHITECTURAL ELEVATIONS.
7. DENOTES DRAG CONNECTION PER 1/S0.3, 6/S0.3
8. SCREEN WALL BRACING PER DETAIL 4/S0.5
9. ROOF HATCH PER 10/S0.5
10. LEDGER ANGLE L3x3x1/4 CONT. OR LEDGER BENT PLT. 5"x4"x1/4" CONT. PER 7/S0.7
11. INDICATES FUTURE PV SOLAR DL=4 P.S.F. ADDED
12. INDICATES THE EXTENT OF MDR-2 ROOF METAL DECK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# CENTENNIAL HIGH SCHOOL AQUATICS CENTER

PROJECT ADDRESS:
1820 RIMPAU AVE.
CORONA, CA 92881

100% DESIGN DEVELOPMENT
DSA APPLICATION #: 04-122208
FILE #: 33-H4

KEY PLAN
BLDG 'A'
NORTH: PLAN

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REVISIONS

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| 1 | Revision 1 | Date 1 |

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BUILDING A FOUNDATION/ROOF FRAMING PLAN

SA1.1

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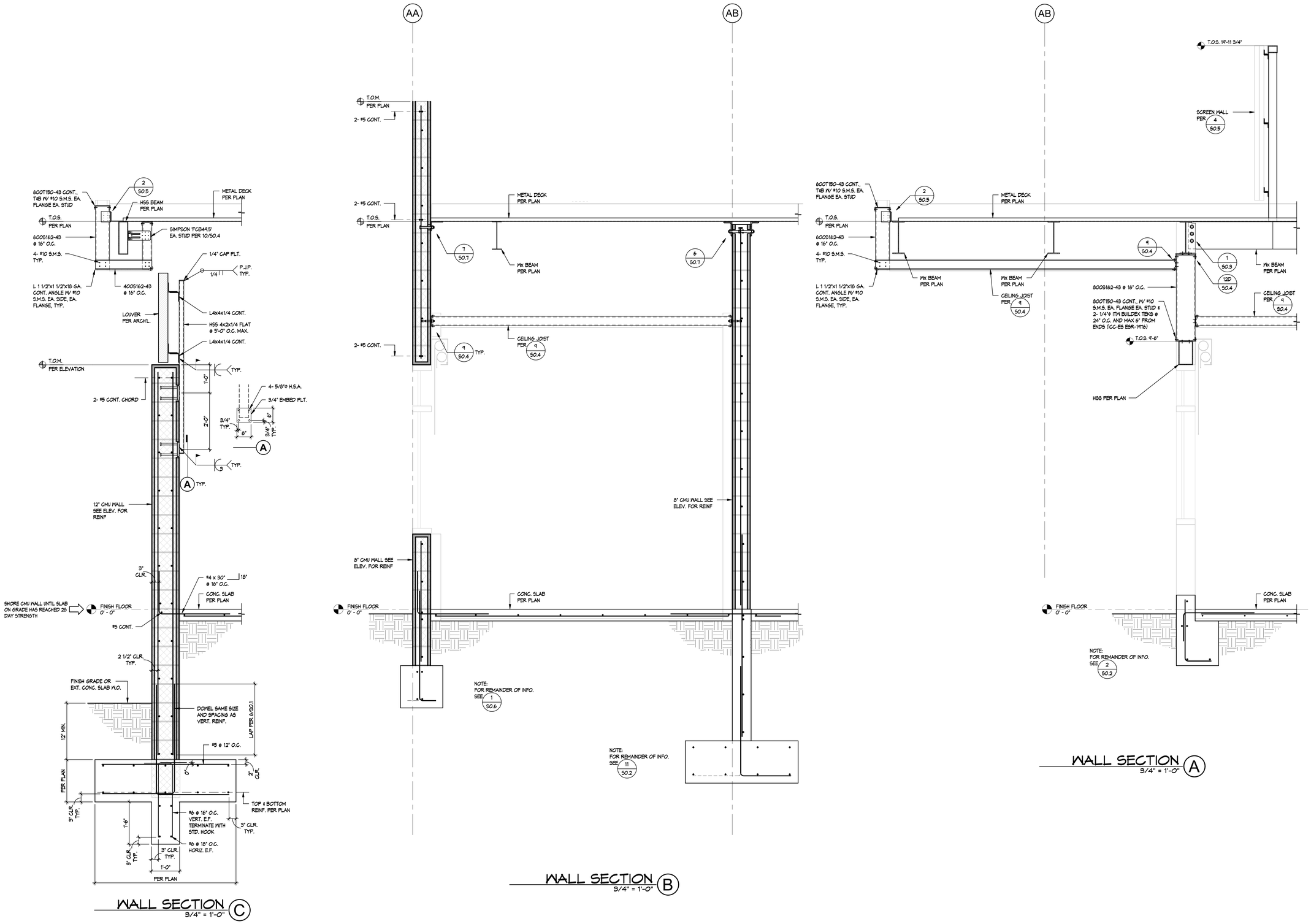


SA2.1 - SECTIONS

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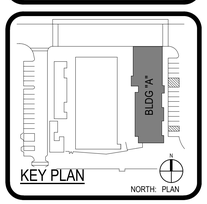


KEY PLAN
NORTH: PLAN

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| 1 | Revision 1 | Date 1 |

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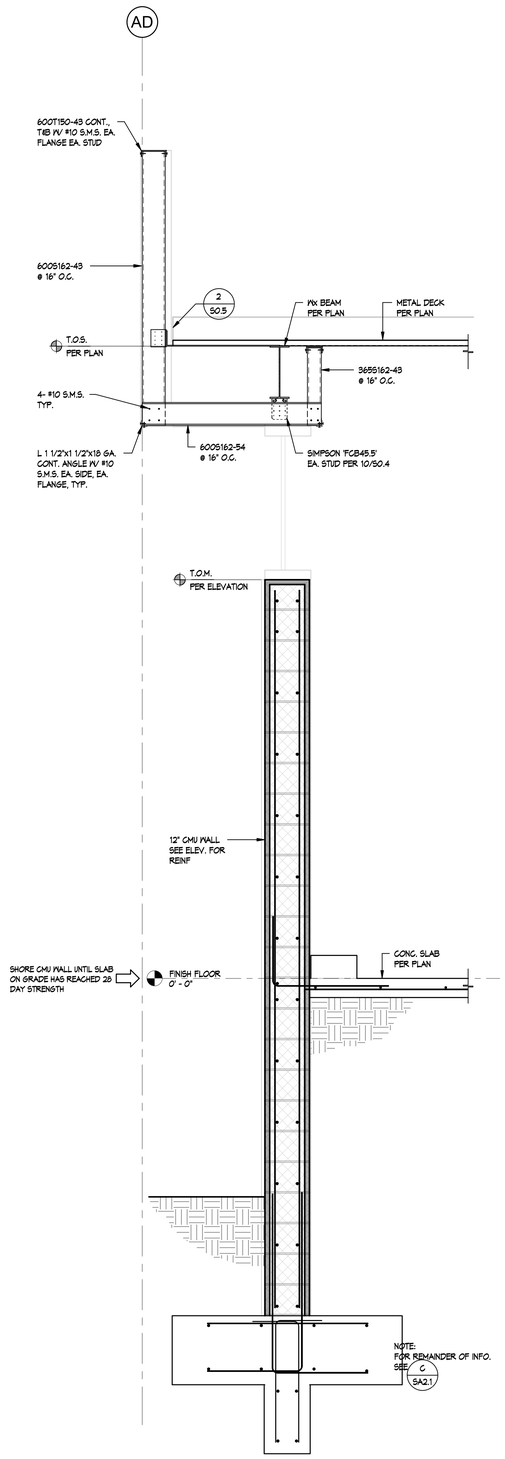
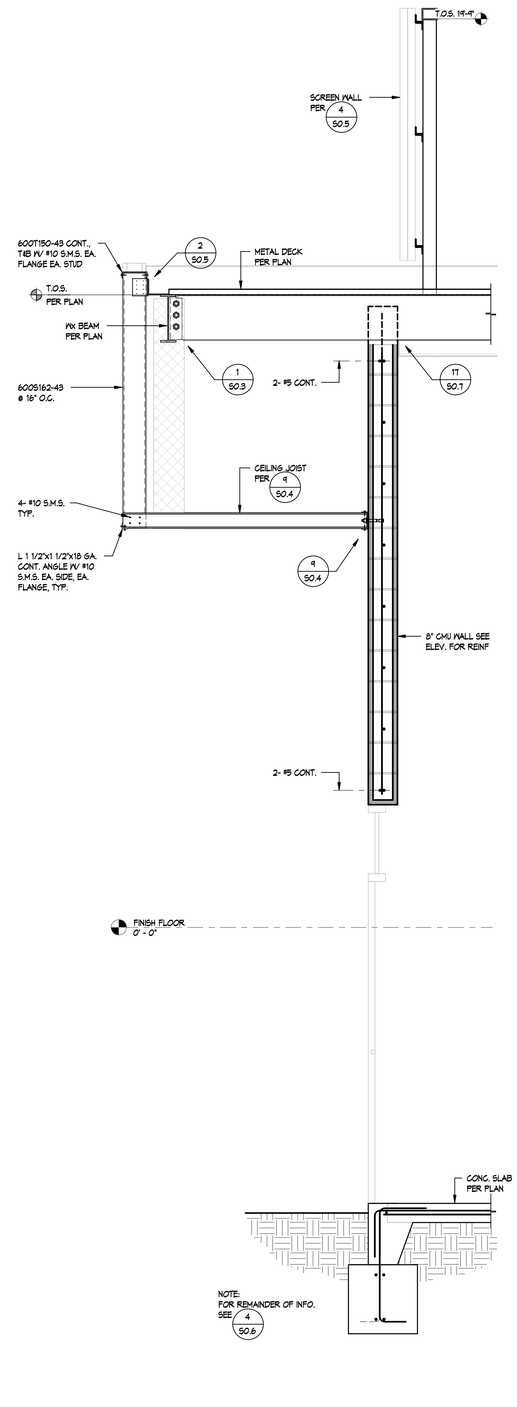
SECTIONS

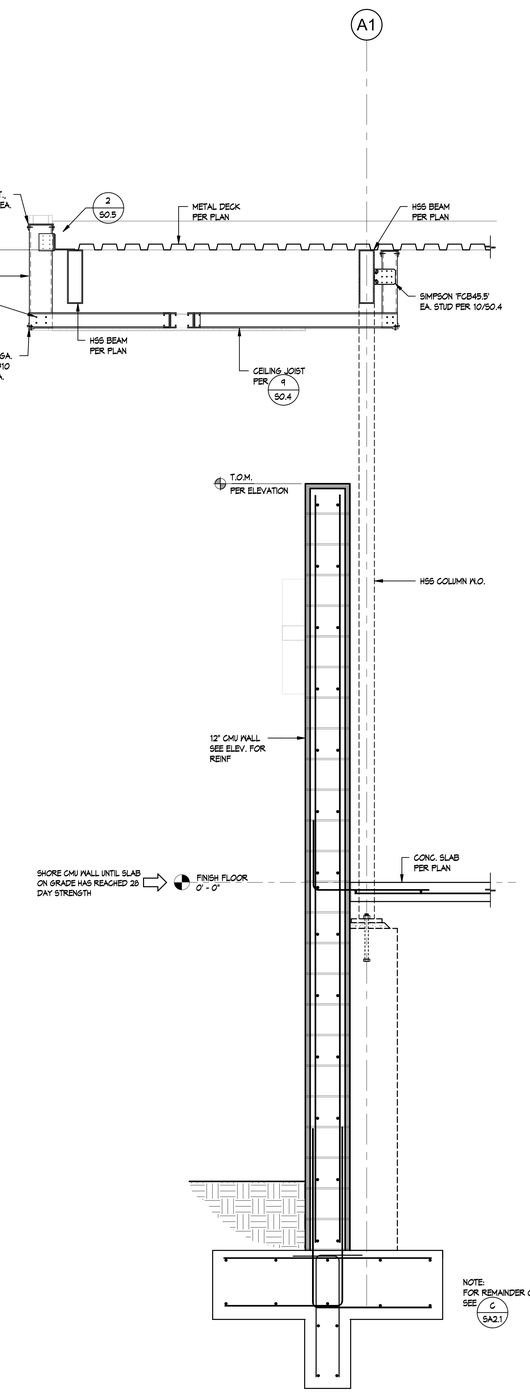
SA2.1




WALL SECTION (F)
3/4" = 1'-0"




WALL SECTION (E)
3/4" = 1'-0"




WALL SECTION (D)
3/4" = 1'-0"

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# CENTENNIAL HIGH SCHOOL AQUATICS CENTER

PROJECT ADDRESS:
1820 RIMPAU AVE.
CORONA, CA 92881

100% DESIGN DEVELOPMENT
DSA APPLICATION #: 04-122208
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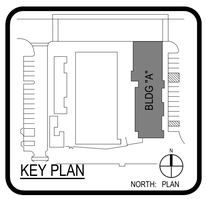


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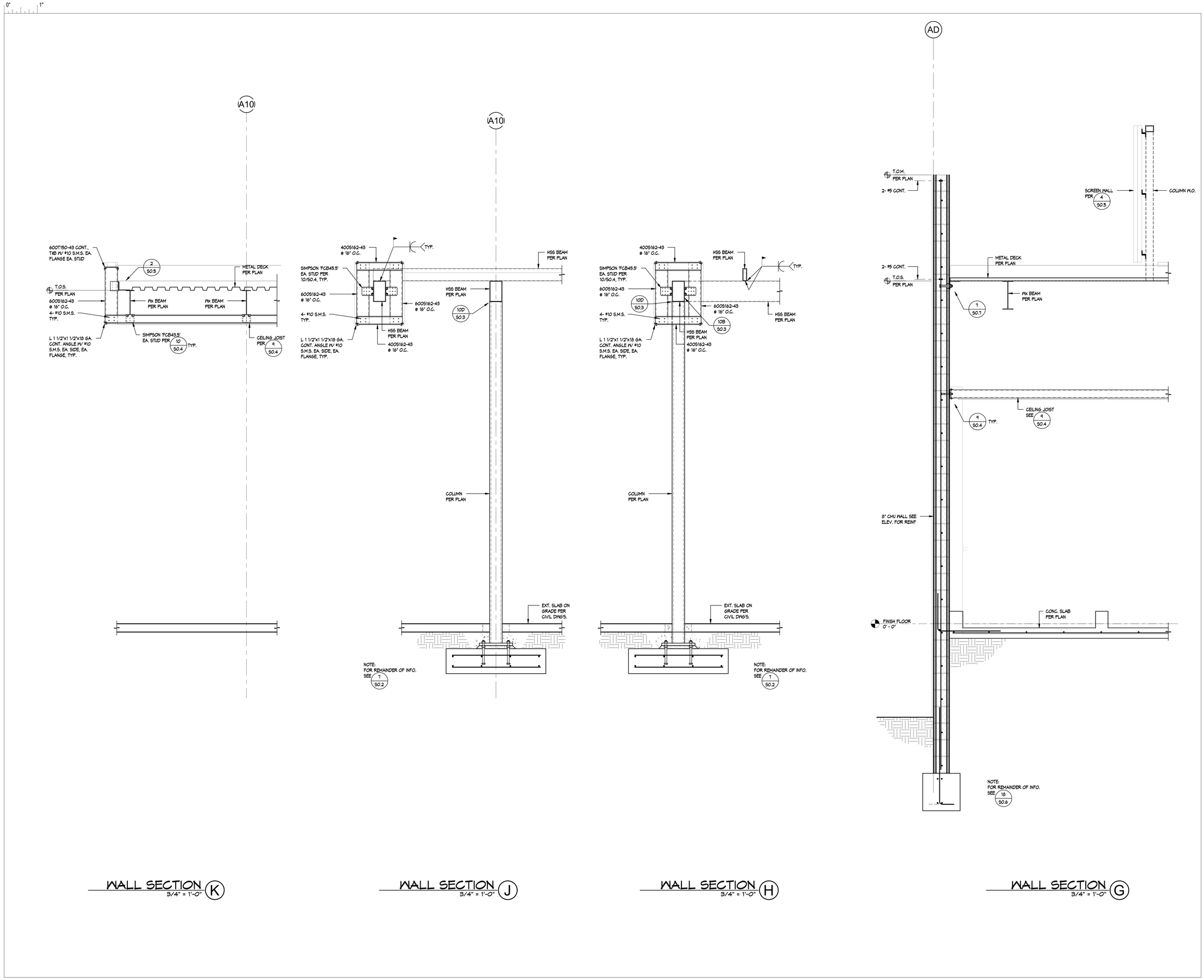
SECTIONS

SA2.2




WALL SECTION (K) 3/4" = 1'-0"

WALL SECTION (J) 3/4" = 1'-0"

WALL SECTION (H) 3/4" = 1'-0"

WALL SECTION (G) 3/4" = 1'-0"

SA2.3 - SECTIONS

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CENTENNIAL HIGH SCHOOL
AQUATICS CENTER

PROJECT ADDRESS:
1820 RIMPAU AVE.
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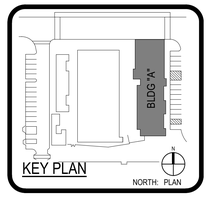
100% DESIGN DEVELOPMENT
FILE #: 33-H4 DSA APPLICATION #: 04-122208




KEY PLAN
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| 5/5/2023 | |

REVISIONS

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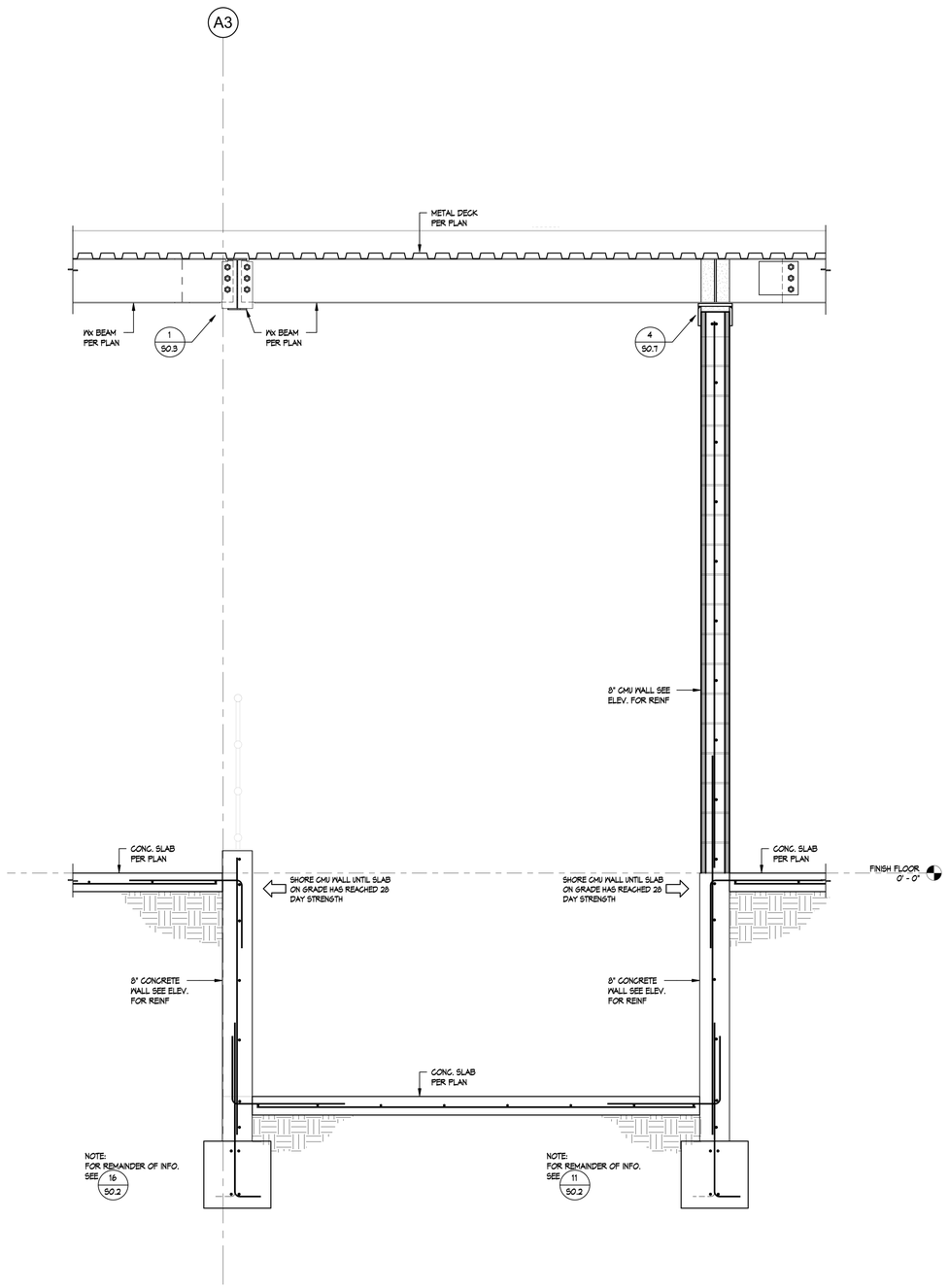
| 1 | Revision 1 | Date 1 |

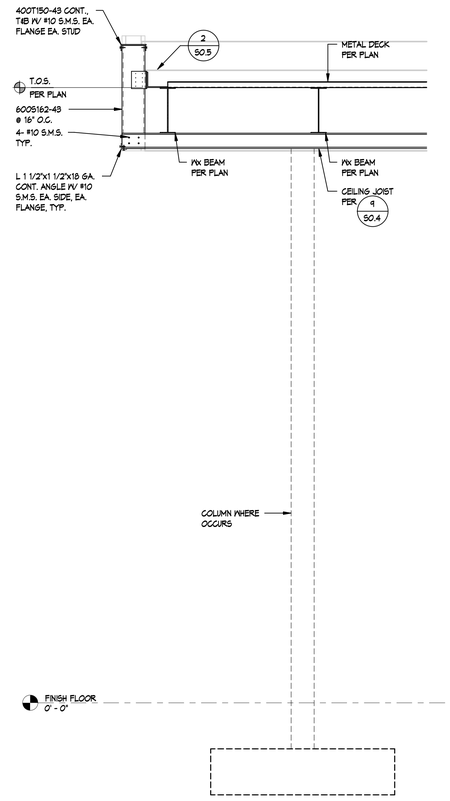
100% DESIGN DEVELOPMENT

SECTIONS

SA2.3




WALL SECTION (M)
3/4" = 1'-0"




WALL SECTION (L)
3/4" = 1'-0"

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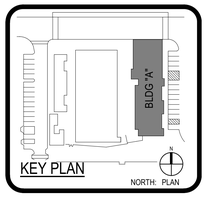
# CENTENNIAL HIGH SCHOOL AQUATICS CENTER

PROJECT ADDRESS:
1820 RIMPAU AVE.
CORONA, CA 92881

100% DESIGN DEVELOPMENT
FILE #: 33-H4 DSA APPLICATION #: 04-122208

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CLIENT
CNUSD

| DATE | PROJECT NUMBER |
|---|---|
| 5/5/2023 | |

REVISIONS

| No. | Description | Date |
|---|---|---|
| 1 | Revision 1 | Date 1 |

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SECTIONS

SA2.4

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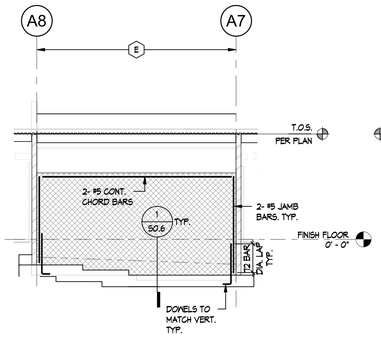
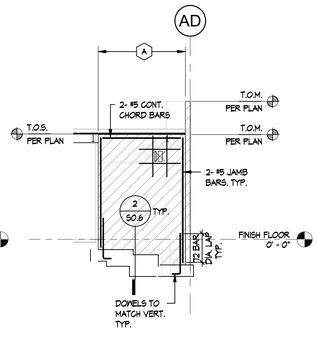
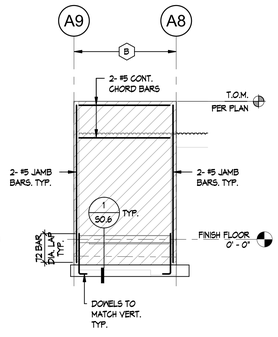
0" 1"



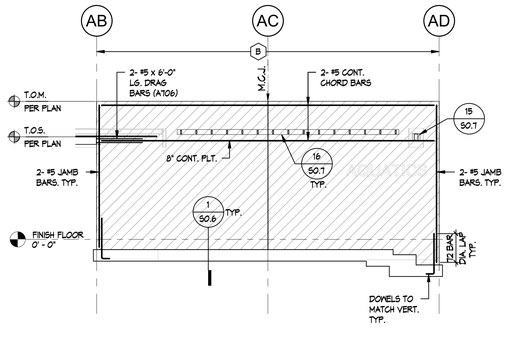

## WALL ELEVATION E
1/8" = 1'-0"



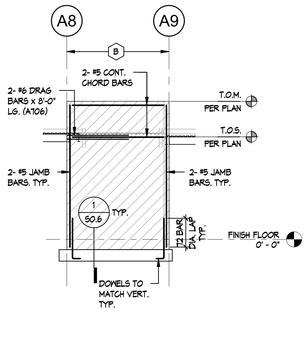

## WALL ELEVATION D
1/8" = 1'-0"




## WALL ELEVATION C
1/8" = 1'-0"




## WALL ELEVATION B
1/8" = 1'-0"



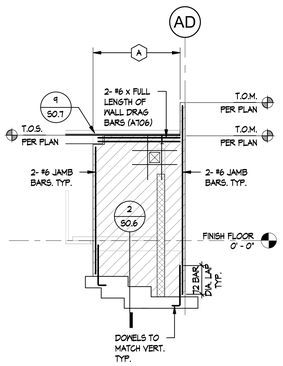

## WALL ELEVATION A
1/8" = 1'-0"

### WALL ELEVATION NOTES

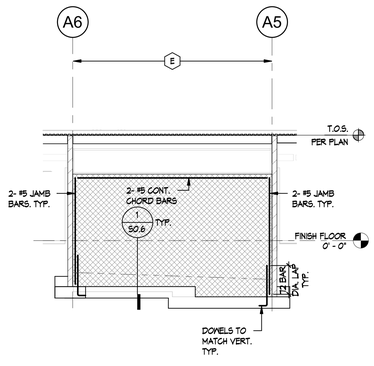
1. SEE MASONRY NOTES ON SHEET S0.1
2. SEE TYPICAL MASONRY WALL REINFORCING DETAIL 6 / 50.6
3. SEE TYPICAL OPENING REINFORCEMENT DETAIL FOR ALL DOORS, WINDOWS AND DUCT OPENINGS IN MASONRY WALLS. 9 / 50.6
4. GENERAL CONTRACTOR SHALL COORDINATE ALL MECHANICAL DUCT PENETRATION SIZE AND LOCATIONS IN MASONRY WALLS WITH THE MECHANICAL ENGINEER AND ARCHITECT. ANY DEVIATION OF DUCT SIZE AND LOCATION FROM THE STRUCTURAL DRAWINGS FOR OPENINGS SHOWN SHALL BE BROUGHT TO THE ATTENTION OF THE S.E.O.R. FOR EVALUATION PRIOR TO COMMENCING. FOR DUCT PENETRATIONS NOT SHOWN ON ELEVATION, DET. 9 / 50.6 SHALL BE FOLLOWED. NO CHORD REINFORCING, DRAG REINFORCING, OR JAMB REINFORCING SHOWN ON ELEVATIONS SHALL BE INTERRUPTED BY A DUCT PENETRATION. NO DUCT PENETRATIONS SHALL BE LOCATED WITHIN 2'-0" OF A BEAM POCKET OR BEARING CONDITION.
5. AT ALL JAMB BARS, LAP DOWELS FROM FOOTING 12 BAR DIA. LAP MIN.
6. EXTERIOR LIGHT FIXTURE W/ RECESSED ELECTRICAL BOX IN MASONRY SHALL BE LOCATED IN A UNREINFORCED HORIZONTAL & VERTICAL MASONRY CELL. CONDUIT SHALL RUN VERTICAL IN A UNREINFORCED CELL ONLY PER 6 / 50.6
7. GROUT ALL MASONRY WALLS SOLID.
8. INDICATES 8" CONC. BLOCK WALL
9. INDICATES 12" CONC. BLOCK WALL
10. INDICATES C.I.P. CONCRETE WALL

### MASONRY WALL REINFORCING SCHEDULE

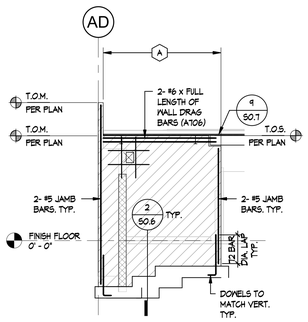
| TYPE | WALL SIZE | REINFORCING |
|---|---|---|
| A | 8" CMU | #5 @ 24" O.C. VERT. AT ℄ OF WALL<br>#5 @ 16" O.C. HORIZ. AT ℄ OF WALL |
| B | 8" CMU | #5 @ 16" O.C. VERT. AT ℄ OF WALL<br>#5 @ 16" O.C. HORIZ. AT ℄ OF WALL |
| C | 8" CMU | #5 @ 16" O.C. VERT. AT ℄ OF WALL<br>#5 @ 24" O.C. HORIZ. E.F. |
| D | 8" CONC. | #5 @ 16" O.C. AT ℄ OF WALL EA. WAY |
| E | 12" CMU | #5 @ 16" O.C. EA. FACE EA. WAY |



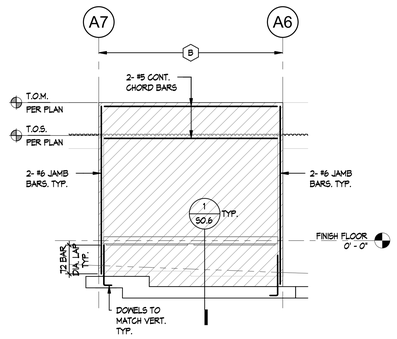

## WALL ELEVATION K
1/8" = 1'-0"



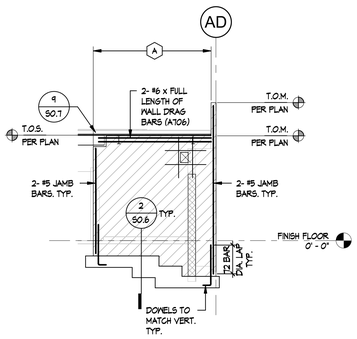

## WALL ELEVATION J
1/8" = 1'-0"



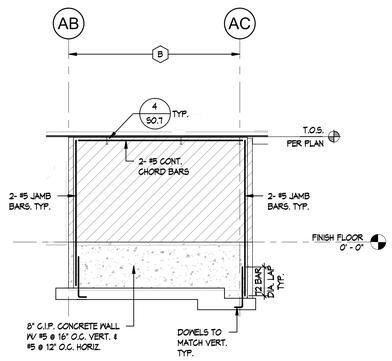

## WALL ELEVATION H
1/8" = 1'-0"



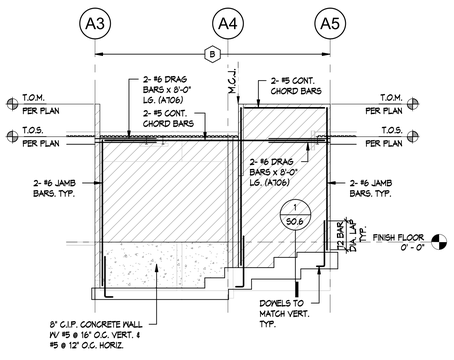

## WALL ELEVATION G
1/8" = 1'-0"



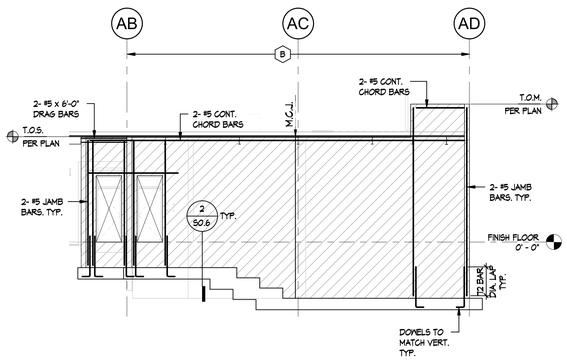

## WALL ELEVATION F
1/8" = 1'-0"



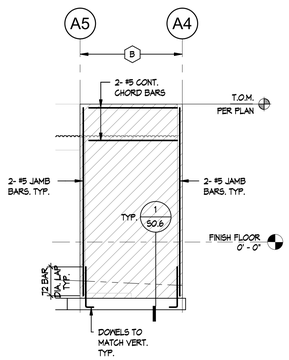

## WALL ELEVATION P
1/8" = 1'-0"




## WALL ELEVATION N
1/8" = 1'-0"




## WALL ELEVATION M
1/8" = 1'-0"




## WALL ELEVATION L
1/8" = 1'-0"

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PBK

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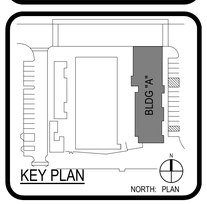


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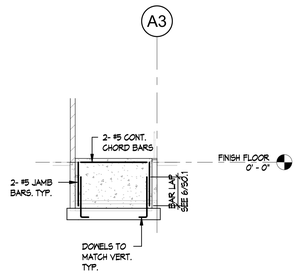
100% DESIGN DEVELOPMENT

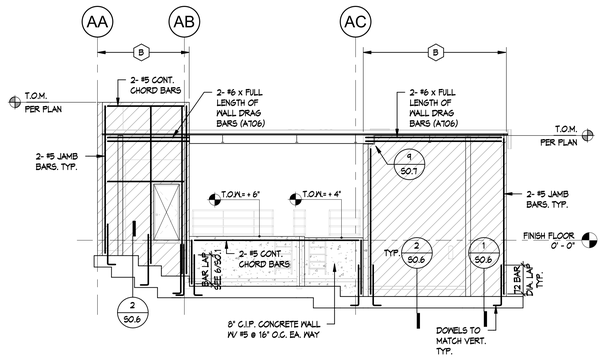
**WALL ELEVATIONS**

**SA3.1**

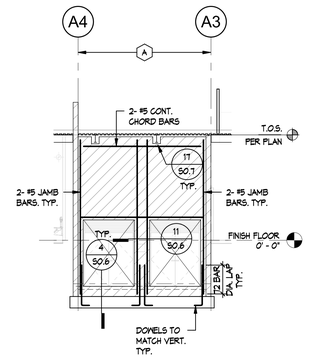
0" 1"



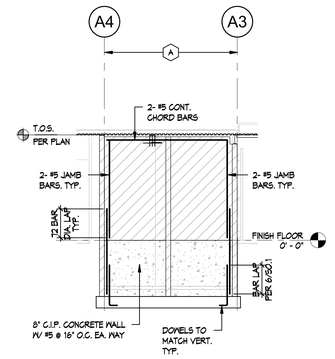

WALL ELEVATION (T)
1/8" = 1'-0"




WALL ELEVATION (S)
1/8" = 1'-0"




WALL ELEVATION (R)
1/8" = 1'-0"




WALL ELEVATION (Q)
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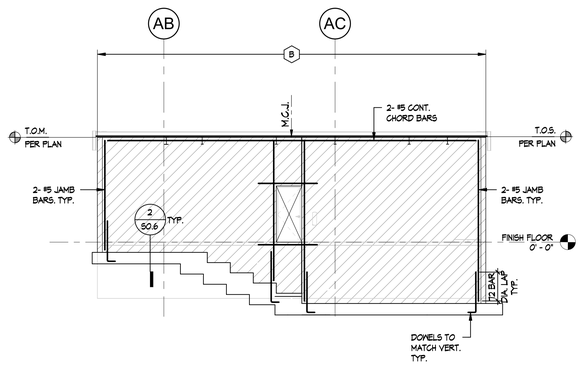
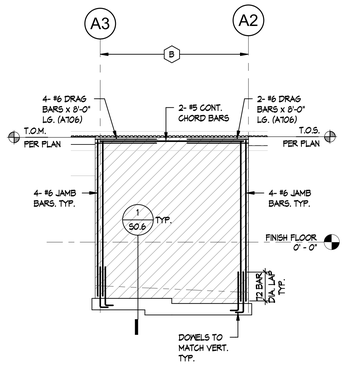
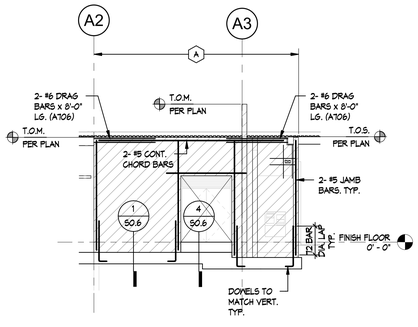
| D | 8" CONC. | #5 @ 16" O.C. AT ℄ OF WALL EA. WAY |
| E | 12" CMU | #5 @ 16" O.C. EA. FACE EA. WAY |



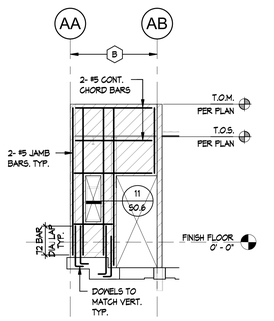

WALL ELEVATION (Y)
1/8" = 1'-0"



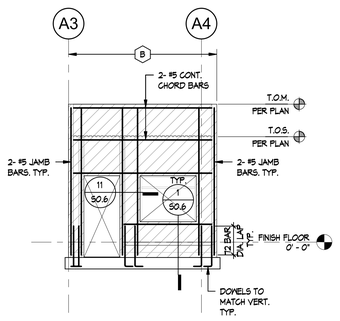

WALL ELEVATION (X)
1/8" = 1'-0"



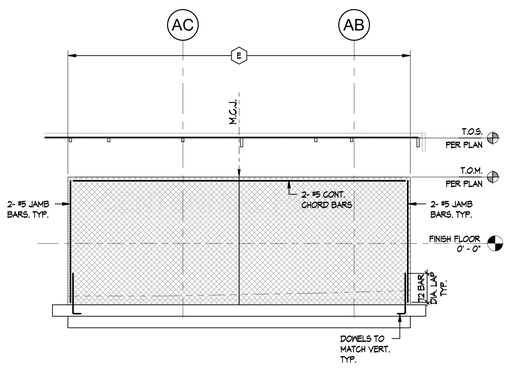

WALL ELEVATION (W)
1/8" = 1'-0"



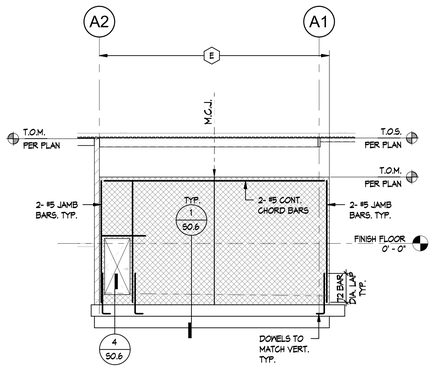

WALL ELEVATION (V)
1/8" = 1'-0"



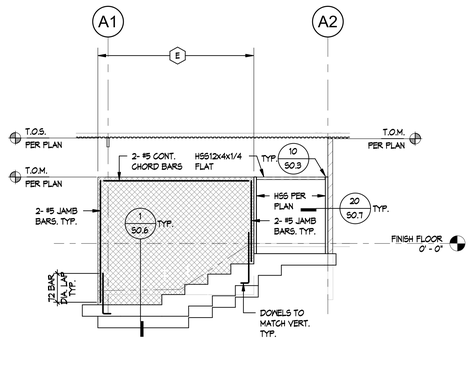

WALL ELEVATION (U)
1/8" = 1'-0"




WALL ELEVATION (BB)
1/8" = 1'-0"




WALL ELEVATION (AA)
1/8" = 1'-0"




WALL ELEVATION (Z)
1/8" = 1'-0"

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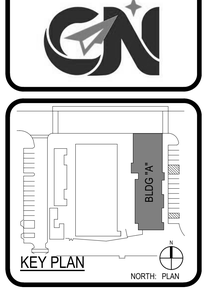


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100% DESIGN DEVELOPMENT

**WALL ELEVATIONS**

**SA3.2**

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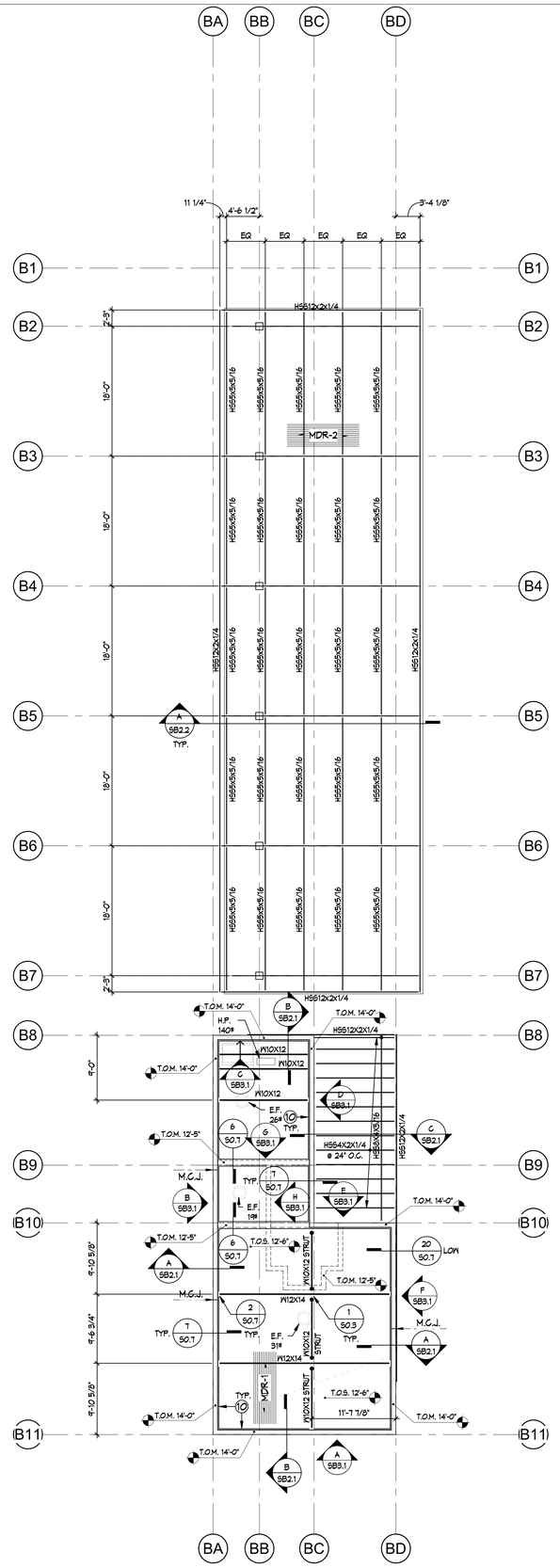
SB1.1 - BUILDING B FOUNDATION/ROOF FRAMING PLAN

0" 1"




## ROOF PLAN BLDG B

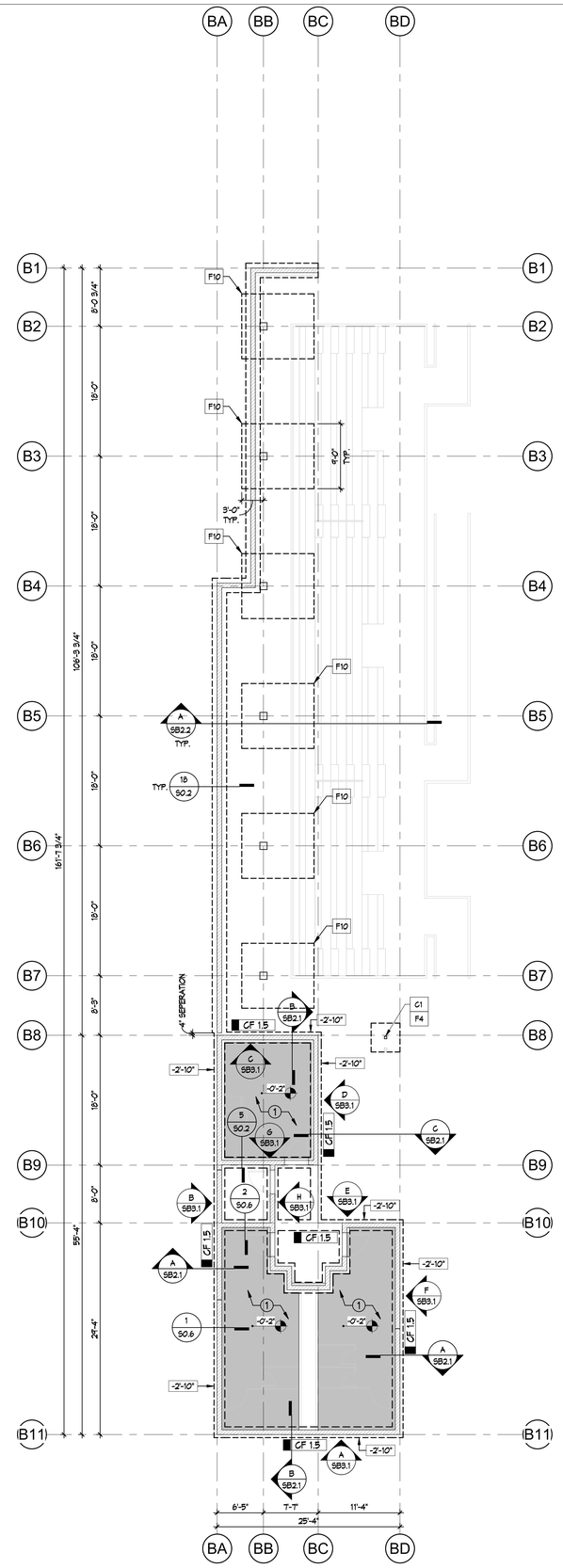
1/8" = 1'-0"

W N E S

## ROOF FRAMING NOTES

1. MDR-1:
   1 1/2" x 18 GA. GALVANIZED VERCO TYPE PLB-36 DECK (IAPMO ER #217) w/ 5/8" Ø PUDDLE WELD @ 12" O.C. AT ALL SUPPORTS PARALLEL TO CORRUGATIONS AND 5/8" Ø PUDDLE WELD AT EACH LOW CORRUGATION PERPENDICULAR TO SUPPORTS. ATTACH SEAMS w/ PUNCHLOCK (V.S.C. I) @ 18" o.c. THRU OUT U.N.O., DECK SHALL BE CONTINUOUS OVER 2 OR MORE SPANS. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INSULATING REQUIREMENTS. FOR PROFILE SEE 5/SO.5

   MDR-2:
   1 1/2" x 18 GA. GALVANIZED HSB-66-36 ROOF DECK BY VERCO MANUFACTURING CO. (IAPMO ER #217) w/ NO. 12-24 x 7/8" L.G. TEKS 4 HEX WASHER HEAD WITH NEOPRENE WASHERS @ 6' O.C. EA. BEARING. STAGGER BOTH SIDES OF BEAM. ATTACH SIDE LAPS WITH NO. 12-24 x 3/4" L.G. TEKS 1 HEX WASHER HEAD WITH NEOPRENE WASHERS @ 24" O.C. (ICC-ES ESR-3056)
2. CONTRACTOR AND MECHANICAL CONTRACTOR SHALL PROVIDE ALL DIMENSIONS FOR THE MECHANICAL EQUIPMENT SUPPORT MEMBERS AND PENETRATIONS TO THE STRUCTURAL STEEL FABRICATOR PRIOR TO THE SHOP DRAWING PHASE. VERIFY ANY DIMENSIONS SHOWN IN THE DRAWINGS.
3. FOR MECHANICAL UNIT FRAMING ( # DENOTES MECH'L UNIT WEIGHT) SEE DETAILS 1/SO.8, 2/SO.8, 4/SO.8
4. ALL PENETRATIONS THRU ROOF DECK 24" AND SMALLER SHALL BE FRAMED PER 6/SO.5 U.N.O. ON PLANS.
5. DENOTES NON SEISMIC MOMENT BEAM TO BEAM CONNECTION PER 9/SO.3
6. COORDINATE ALL TOP OF STEEL ELEVATIONS (T.O.S.) WITH ARCHITECTURAL ELEVATIONS.
7. DENOTES DRAG CONNECTION PER 1/SO.3, 6/SO.3
8. SCREEN WALL BRACING PER DETAIL 4/SO.5
9. ROOF HATCH PER 10/SO.5
10. LEDGER ANGLE L3x3x1/4 CONT. OR LEDGER BENT PLT. 5"x4"x1/4" CONT. PER 7/SO.7
11. INDICATES FUTURE PV SOLAR DL=4 P.S.F. ADDED
12. INDICATES THE EXTENT OF MDR-2 ROOF METAL DECK




## FOUNDATION PLAN BLDG B

1/8" = 1'-0"

W N E S

## FOUNDATION PLAN NOTES

1. TYPICAL SLAB ON GRADE U.N.O.:
   5" THICK CONCRETE SLAB w/ #4 @ 16" O.C. EACH WAY AT MID SLAB OVER 15 MIL. VAPOR BARRIER OVER 4" AGGREGATE BASE OVER COMPACTED FILL PER SPECIFICATIONS.
2. VERIFY ALL DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS.
3. SEE GENERAL NOTES AND ABBREVIATIONS ON SHEET SO.1.
4. TYPICAL FOUNDATION FORMING DETAILS PER 1/SO.1
5. STEP FOOTINGS PER 2/SO.1
6. STEP FOOTINGS AT PLUMBING LINES PER DETAIL 3/SO.1
7. TERMINATE ALL LONGITUDINAL FOOTING REINFORCING W/ STD. HOOK AT END OF ALL GRADE BEAMS.
8. SHADED AREA INDICATES EXTENTS OF SLAB DEPRESSION PER PLAN, VERIFY WITH ARCH'L. DRAWINGS.
9. CJP.J. INDICATES SLAB CONTROL JOINT PER DETAIL 5/SO.1
10. REINF. FOR CONTINUOUS FOOTINGS SHALL EXTEND THROUGH THE PAD FOOTINGS, WHERE OCCURS.
11. <0'-0"> INDICATES BOTTOM OF FOOTING ELEVATION (FROM REFERENCE ELEVATION <0'-0">)

## PAD FOOTING SCHEDULE

| MARK | PAD SIZE | REINFORCING |
|---|---|---|
| F4 | 4'-0"x4'-0"x1'-0" | 4- #5 BARS TOP & BOTTOM, EACH WAY |
| F10 | 10'-0"x4'-0"x2'-0" | #7 @ 12" O.C. EA. WAY TOP & BOTTOM |

## CONTINUOUS FOOTING SCHEDULE

| MARK | WIDTH | THICKNESS | REINFORCING |
|---|---|---|---|
| CF 1.5 | 1' - 6" | 1' - 6" | <varies> |
| CF 2.0 | 2' - 0" | 1' - 6" | 3- #5 TOP & BOTTOM |
| CF 4.0 | 4' - 0" | 1' - 6" | <varies> |
| CF 5.0 | 5' - 0" | 1' - 6" | <varies> |

## COLUMN SCHEDULE

| MARK | COLUMN SIZE | BASE PLATE (U.N.O.) | WELD SIZE U.N.O. | SIZE AND NO. OF A.B. U.N.O. |
|---|---|---|---|---|
| C1 | HSS4X4X1/4 | 3/4" THK. | 5/16" | 4- 3/4" DIA. x 12" LONG A.B. |
| C2 | HSS6X6X5/8 | 1 1/4" THK. | C.J.P. | SEE DETAIL 7/SO.2 |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**CENTENNIAL HIGH SCHOOL AQUATICS CENTER**

PROJECT ADDRESS:
1820 RIMPAU AVE.
CORONA, CA 92881

100% DESIGN DEVELOPMENT DSA APPLICATION #: 04-122208
FILE #: 33-H4

DROP OFF
BLDG "B"
POOL
BLDG "A"
KEY PLAN
NORTH: PLAN

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CNUSD

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|---|---|
| 5/5/2023 | |

REVISIONS

| No. | Description | Date |
|---|---|---|
| | | |

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**BUILDING B FOUNDATION/ROOF FRAMING PLAN**

**SB1.1**

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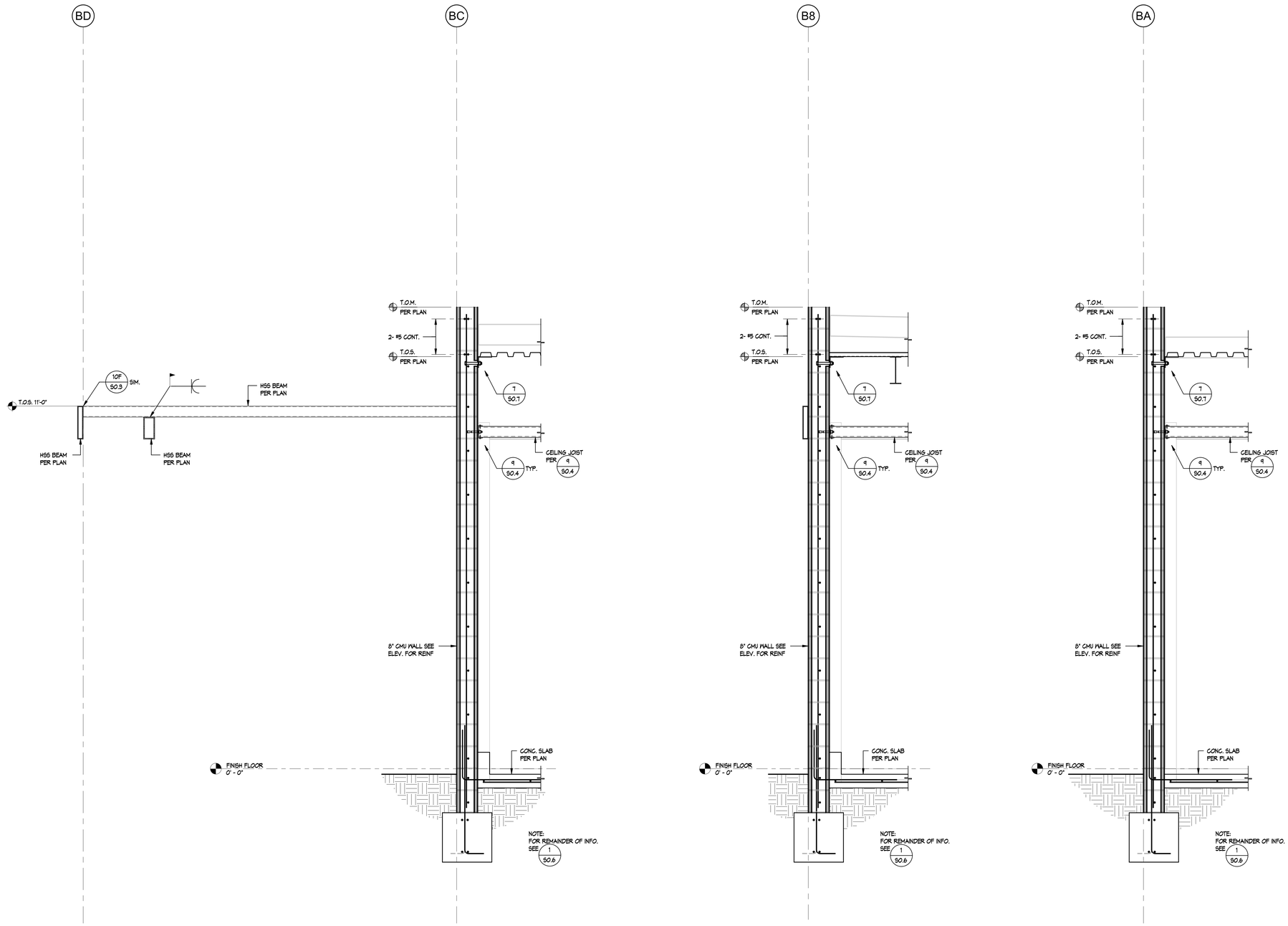


WALL SECTION C
3/4" = 1'-0"

WALL SECTION B
3/4" = 1'-0"

WALL SECTION A
3/4" = 1'-0"

SB2.1 - SECTIONS

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# CENTENNIAL HIGH SCHOOL AQUATICS CENTER

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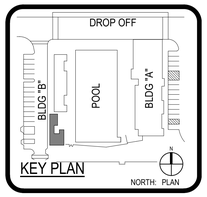
CORONA, CA 92881

100% DESIGN DEVELOPMENT
FILE #: 33-H4 DSA APPLICATION #: 04-122208




KEY PLAN
NORTH: PLAN

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| | | |

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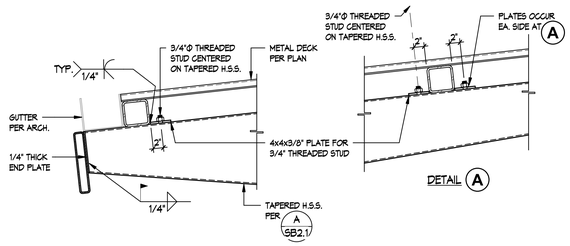
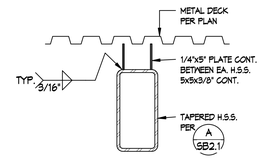
SECTIONS

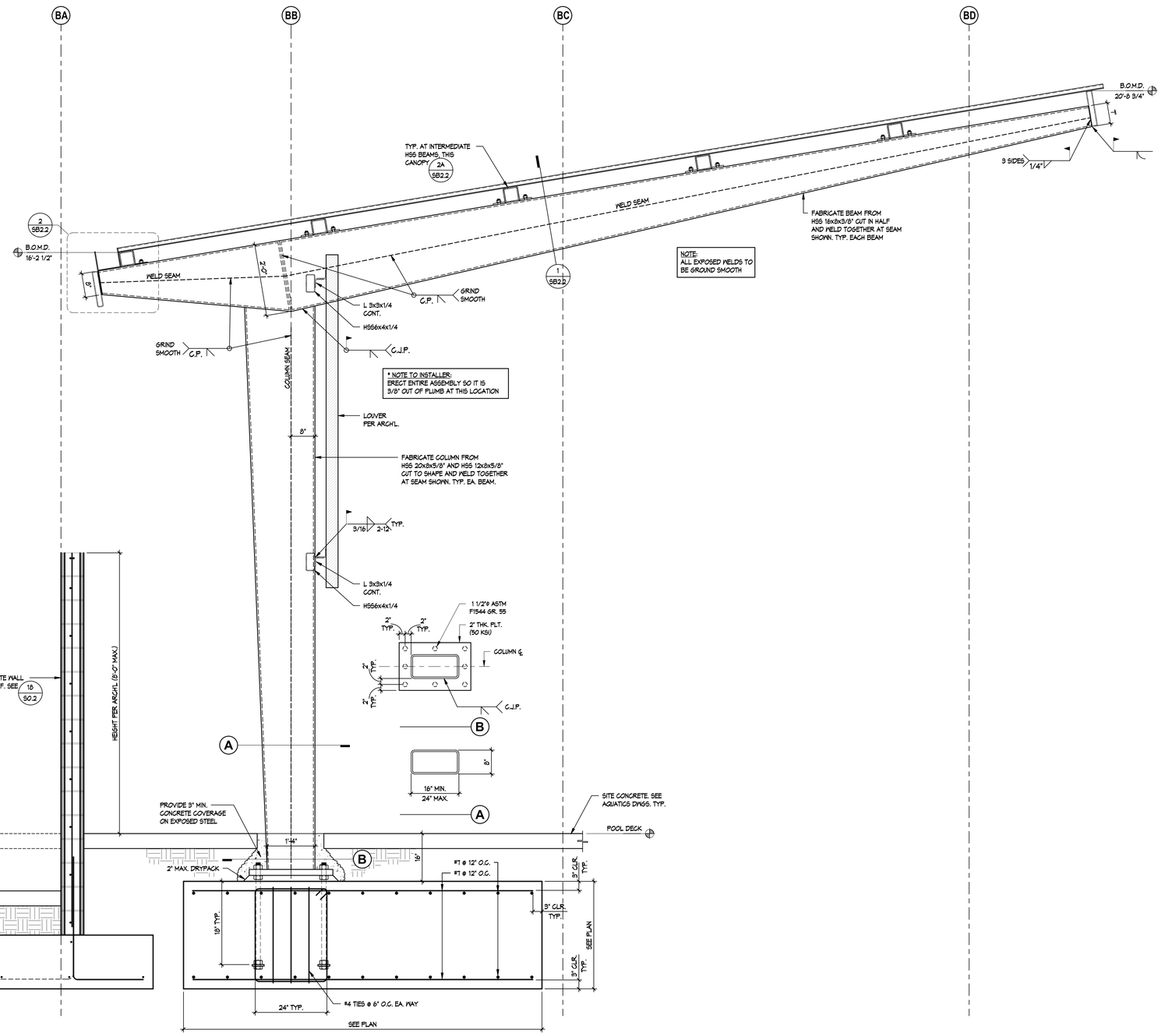
SB2.1




BLEACHER CANOPY END DETAIL 2
1" = 1'-0"




BLEACHER CANOPY DETAIL 1
1" = 1'-0"




CANOPY SECTION A
3/4" = 1'-0"

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# CENTENNIAL HIGH SCHOOL AQUATICS CENTER

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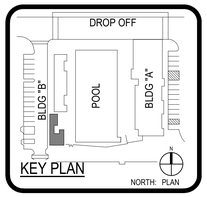
100% DESIGN DEVELOPMENT
FILE #: 33-H4 DSA APPLICATION #: 04-122208




KEY PLAN
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SECTIONS

SB2.2

SB2.2 - SECTIONS

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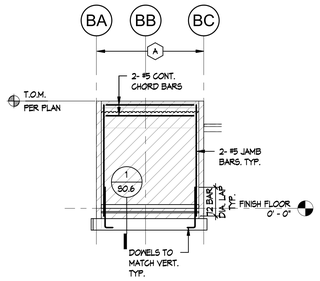
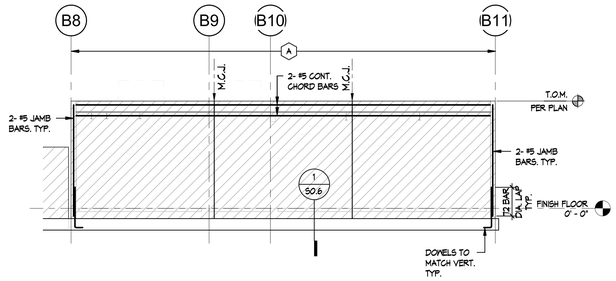
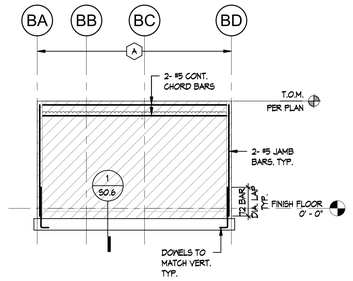



WALL ELEVATION C
1/8" = 1'-0"




WALL ELEVATION B
1/8" = 1'-0"



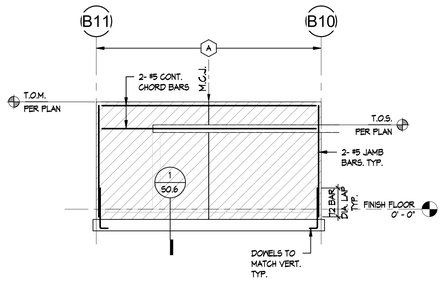

WALL ELEVATION A
1/8" = 1'-0"

## WALL ELEVATION NOTES

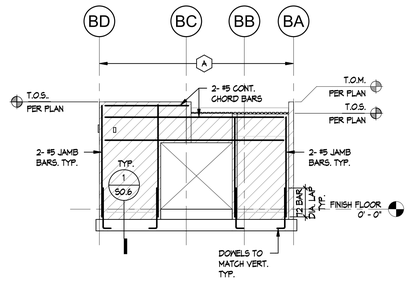
1. SEE MASONRY NOTES ON SHEET S0.1
2. SEE TYPICAL MASONRY WALL REINFORCING DETAIL 6/S0.6
3. SEE TYPICAL OPENING REINFORCEMENT DETAIL FOR ALL DOORS, WINDOWS AND DUCT OPENINGS IN MASONRY WALLS. 9/S0.6
4. GENERAL CONTRACTOR SHALL COORDINATE ALL MECHANICAL DUCT PENETRATION SIZE AND LOCATIONS IN MASONRY WALLS WITH THE MECHANICAL ENGINEER AND ARCHITECT. ANY DEVIATION OF DUCT SIZE AND LOCATION FROM THE STRUCTURAL DRAWINGS FOR OPENINGS SHOWN SHALL BE BROUGHT TO THE ATTENTION OF THE S.E.O.R. FOR EVALUATION PRIOR TO COMMENCING. FOR DUCT PENETRATIONS NOT SHOWN ON ELEVATION, DET. 9/S0.6 SHALL BE FOLLOWED. NO CHORD REINFORCING, DRAG REINFORCING, OR JAMB REINFORCING SHOWN ON ELEVATIONS SHALL BE INTERRUPTED BY A DUCT PENETRATION. NO DUCT PENETRATIONS SHALL BE LOCATED WITHIN 2'-0" OF A BEAM POCKET OR BEARING CONDITION.
5. AT ALL JAMB BARS, LAP DOWELS FROM FOOTING 12 BAR DIA. LAP MIN.
6. EXTERIOR LIGHT FIXTURE W/ RECESSED ELECTRICAL BOX IN MASONRY, SHALL BE LOCATED IN A UNREINFORCED HORIZONTAL & VERTICAL MASONRY CELL. CONDUIT SHALL RUN VERTICAL IN A UNREINFORCED CELL ONLY PER 6/S0.6
7. GROUT ALL MASONRY WALLS SOLID.
8. INDICATES 8" CONC. BLOCK WALL
9. INDICATES 12" CONC. BLOCK WALL
10. INDICATES C.I.P. CONCRETE WALL

## MASONRY WALL REINFORCING SCHEDULE

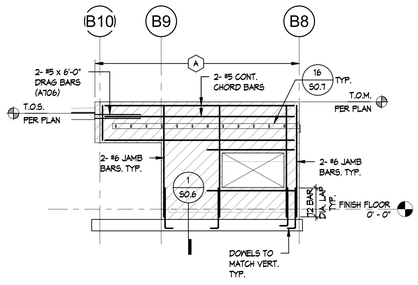
| TYPE | WALL SIZE | REINFORCING |
|---|---|---|
| A | 8" CMU | #5 @ 24" O.C. VERT. AT ℄ OF WALL<br>#5 @ 16" O.C. HORIZ. AT ℄ OF WALL |
| B | 8" CMU | #5 @ 16" O.C. VERT. AT ℄ OF WALL<br>#5 @ 16" O.C. HORIZ. AT ℄ OF WALL |
| C | 8" CMU | #5 @ 16" O.C. VERT. AT ℄ OF WALL<br>#5 @ 24" O.C. HORIZ. E.F. |
| D | 8" CONC. | #5 @ 16" O.C. AT ℄ OF WALL EA. WAY |
| E | 12" CMU | #5 @ 16" O.C. EA. FACE EA. WAY |



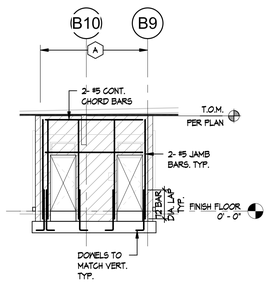

WALL ELEVATION F
1/8" = 1'-0"



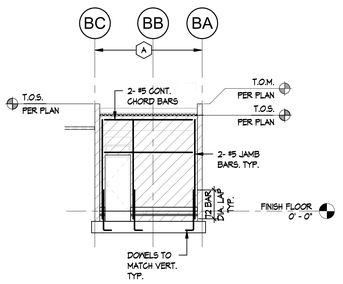

WALL ELEVATION E
1/8" = 1'-0"




WALL ELEVATION D
1/8" = 1'-0"




WALL ELEVATION H
1/8" = 1'-0"




WALL ELEVATION G
1/8" = 1'-0"

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**CENTENNIAL HIGH SCHOOL AQUATICS CENTER**

**PROJECT ADDRESS:**
1820 RIMPAU AVE.
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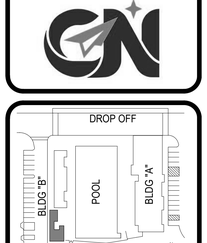
**100% DESIGN DEVELOPMENT** DSA APPLICATION #: **04-122208**
FILE #: **33-H4**

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DATE 5/5/2023
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REVISIONS

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**WALL ELEVATIONS**

**SB3.1**

M0.0 - MECHANICAL SHEET INDEX, LEGEND AND NOTES

0" 1"

## TITLE 24 NOTES

THE FOLLOWING SHALL BE REQUIRED WHETHER OR NOT SPECIFICALLY SHOWN OR MENTIONED IN DRAWINGS AND/OR SPECIFICATIONS:

1. EQUIPMENT SHALL MEET EFFICIENTY REQUIREMENTS OF TABLES 110.2-A THROUGH 110.2-K.
2. ALL AIR-COOLED, UNITARY, DX UNITS (PACKAGED, SPLIT-SYSTEM, HEAT PUMPS AND VRF) WITH ECONOMIZERS SHALL BE EQUIPPED WITH FAULT DETECTION AND DIAGNOSTICS SYSTEMS.
3. PIPE INSULATION FOR SPACE CONDITIONING AND SERVICE WATER-HEATING WITH FLUID TEMPERATURES LISTED IN TABLE 120.3-A SHALL HAVE INSULATION LEVELS AS SPECIFIED IN SUBSECTION (A) AND (B).
4. MECHANICAL HEATING AND COOLING EQUIPMENT SHALL BE THE SMALLEST SIZE, WITHIN THE AVAILABLE OPTIONS OF THE DESIRED EQUIPMENT LINE, NECESSARY TO MEET THE DESIGN HEATING AND COOLING LOADS OF THE BUILDING, AS CALCULATED ACCORDING TO THE REQUIREMENTS OF SECTION 140.4(B).
5. HVAC MOTORS FOR FANS THAT ARE LESS THAN 1 HP AND 1/12 HP OR GREATER SHALL BE ECM OR HAVE A MINIMUM MOTOR EFFICIENCY OF 70%. MOTORS SHALL ALSO HAVE MEANS TO ADJUST MOTOR SPEED FOR BALANCING OR REMOTE CONTROL.
6. ELECTRIC RESISTANCE HEATING SYSTEMS ARE NOT PROVIDED FOR SPACE HEATING.
7. IN DRIER CLIMATES AND WHEN LARGE OUTDOOR AIR FRACTIONS ARE REQUIRED, EVAPORATIVE PRE-COOLING PACKAGES WERE EVALUATED TO PRE-COOL OUTSIDE AIR AND COOL THE AIR FLOWING OVER THE DX CONDENSING UNIT.
8. ZONE EACH AIR HANDLER TO SERVE ONLY AREAS WITH COMMON LOADS TO ALLOW MORE AGGRESSIVE CONTROL STRATEGIES AND IMPROVE COMFORT. HAVE DIFFERENT AHU'S SERVING CORE VS. PERIMETER AREAS.
9. THE DESIGN ACCOMMODATES PARTIAL OCCUPANCY ENERGY SAVINGS WHEN THE OWNER'S REQUIREMENTS OR NARRATIVE DESCRIBE ANY POSSIBILITY OF PARTIAL OCCUPANCY. BY ZONING AIR HANDLERS BY FLOOR OR BY PART OF A FLOOR, OR BY INCORPORATING CONTROLLED FLOOR DAMPERS, OR VAV AIR TERMINALS GOING TOTALLY SHUT WHEN NOT OCCUPIED, ETC.
10. EACH ZONE IS CONTROLLED BY AN INDIVIDUAL THERMOSTATIC CONTROL CONTROLS SHALL BE CAPABLE OF SETTING TEMPERATURES TO 55 DEG F FOR HEATING AND 85 DEG F FOR COOLING AND PROVIDE A TEMPERATURE DEADBAND OF AT LEAST 5 DEG F IF CONTROLLING BOTH HEATING AND COOLING. EACH SPACE CONDITIONING SYSTEM SHALL BE EQUIPPED WITH CONTROLS TO SHUT THE SYSTEM OFF DURING PERIODS OF NONUSE AND WILL TEMPORARILY OPERATE THE SYSTEM TO MAINTAIN SETBACK AND SETUP TEMPERATURES WHILE KEEPING VENTILATION DAMPERS CLOSED.
11. SYSTEMS SERVING MULTIPURPOSE ROOMS LESS THAN 100 SF AND CLASSROOMS, CONFERENCE, AUDITORIUM OR MEETING CENTER ROOMS GREATER THAN 750 SF SHALL HAVE OCCUPANCY SENSORS THAT INTERFACE WITH HVAC CONTROLS TO AUTOMATICALLY SETUP THE COOLING SETPOINT BY 2F OR MORE AND AUTOMATICALLY RESET THE MINIMUM REQUIRED VENTILATION RATE. THESE OCCUPANT SENSOR VENTILATION CONTROL DEVICES MUST MEET THE REQUIREMENTS OF SECTION 120.1(C)5.
12. OUTDOOR AIR SUPPLY AND EXHAUST EQUIPMENT SHALL BE INSTALLED WITH DAMPERS THAT AUTOMATICALLY CLOSE UPON EF FAN SHUTDOWN.
13. HVAC SYSTEMS WITH DDC TO THE ZONE LEVEL SHALL BE PROGRAMMED TO ALLOW CENTRALIZED DEMAND SHED FOR NON-CRITICAL ZONES.
14. ZONE CONTROLS PREVENT REHEATING, RECOOLING AND SIMULTANEOUS PROVISIONS OF HEATING AND COOLING TO THE SAME ZONE.
15. EACH WALL MOUNTED THRMOSTAT SHALL BE LOCATED AWAY FROM POTENTIAL SOURCES THAT WOULD ADVERSELY AFFECT THE READING (CLOSE TO COPIERS, DIRECT SUNLIGHT, BELOW OR ABOVE A SUPPLY AIR DIFFUSER OR CONVECTOR, ETC.) ANY THERMOSTATS MOUNTED ON EXTERIOR WALLS SHALL BE INSTALLED IN SEALED AND INSULATED JUNCTION BOXES.
16. CORNER OFFICE SHALL ALWAYS HAVE THEIR OWN THERMOSTATS, AIR TERMINAL BOXES OR FIN TUBE RADIATORS.
17. CONTROL SEQUENCES SHALL BE LISTED FOR EQUIPMENT OPERATED BY STAND-ALONE PACKAGED CONTROLS. UNOCCUPIED SEQUENCES SHALL BE INCLUDED
18. CONTROL SEQUENCES SHALL BE PROVIDED FOR EACH PIECE OF EQUIPMENT LISTED IN THE EQUIPMENT SCHEDULE THAT IS MONITORED OR CONTROLLED BY THE BUILDING AUTOMATION SYSTEM (BAS). UNOCCUPIED SEQUENCES SHALL BE INCLUDED.
19. OUTSIDE AIR TEMPERATURE SENSORS SHALL BE IN A COMMERCIALLY DESIGNED SOLAR SHIELD LOCATED ON A NORTH WALL OR SOME OTHER LOCATION OUT OF DIRECT SUNLIGHT AND AWAY FROM BUILDING EXHAUST OR HEAT REJECTION EQUIPMENT.
20. THE OUTDOOR AIR-VENTILATION RATE AND AIR-DISTRIBUTION ASSUMPTIONS MADE IN THE DESIGN OF THE VENTILATING SYSTEM ARE CLEARLY IDENTIFIED ON THE PLANS.
21. EACH SPACE IS DESIGNED TO HAVE NATURAL VENTILATION OR MECHANICAL VENTILATION THAT IS NO LESS THAN THE LARGER OF CONDITIONED FLOOR AREA TIMES THE REQUIREMENTS IN TABLE 120.1-A OR 15 CFM TIMES THE EXPECTED NUMBER OF OCCUPANTS.
22. THE MINIMUM AND MAXIMUM OUTDOOR AIR RATES FOR EACH AIR HANDLER ARE LISTED ON THE EQUIPMENT SCHEDULES.
23. THE OUTDOOR AIR-VENTILATION RATES ARE BASED ON PLANNED OWNER OCCUPANCY AS DEFINED IN OWNER'S DESIGN INTENT AND ARE NOT BASED ON MAXIMUM EGRESS OCCUPANCY RATES.
24. HVAC SYSTEMS THAT HAVE AN ECONOMIZER, SERVE A SPACE WITH A DESIGN OCCUPANT DENSITY GREATER THAN OR EQUAL TO 25 PEOPLE PER 1000 SF, AND ARE EITHER A SINGLE ZONE SYSTEM WITH ANY CONTROLS OR MULTIPLE ZONE SYSTEM WITH DDC CONTROLS TO THE ZONE LEVEL MUST HAVE DEMAND CONTROL VENTILATION CONTROLS. THE FOLLOWING MUST BE MET:
   A. CO2 SENSORS INSTALLED IN EACH ROOM SERVED BY SYSTEMS WITH DCV CONTROLS
   B. CO2 SENSORS ARE LOCATED BETWEEN 3 FT AND 6 FT ABOVE THE FLOOR.
   C. CO2 CONCENTRATIONS MAINTAINED AT LESS THAN OR EQUAL TO 600 PPM PLUS OUTDOOR PPM.
   D. DURING HOURS OF EXPECTED OCCUPANCY, CONTROLS MAINTAIN THE SYSTEM VENTILATION RATE.
25. EACH COOLING FAN SYSTEM THAT HAS A DESIGN MECHANICAL COOLING CAPACITY OVER 54,000 BTUH SHALL HAVE AN AIR ECONOMIZER OR A WATER ECONOMIZER. AIR ECONOMIZERS MUST COMPLY WITH THE HIGH LIMIT SHUTOFF CONTROLS SHOWN IN TABLE 140.4-B.
26. INTEGRATED ECONOMIZER CONTROLS SHALL BE SET UP SUCH THAT PARTIAL COOLING IS PROVIDED BY THE ECONOMIZER EVEN WHEN ADDITIONAL MECHANICAL COOLING ID REQUIRED.
27. ECONOMIZER DAMPERS SHALL BE DRIVEN BY DIRECT DRIVE ACTUATORS RATHER THAN ROD LINKAGES. WHICH CAN BE A MAJOR CAUSE OF ECONOMIZER MALFUNCTION.
28. BAROMETRIC RELIEF IS USED, IF POSSIBLE. IF NOT, RELIEF FANS (RATHER THAN RETURN FANS) SHALL BE USED IN MOST CASES.
29. OUTDOOR AND RETURN AIR SENSORS SHALL BE PROPERLY SELECTED, PROPERLY LOCATED TO PROVIDE ACCURATE AND REPEATABLE MEASUREMENTS FOR CONTROLLING ECONOMIZER OPERATION. AVERAGING SENSORS COVER THE ENTIRE DUCT OR COIL FACE AREAS.
30. ALL AIR DISTRIBUTION SYSTEM DUCTS AND PLENUMS MUST BE INSTALLED, SEALED AND INSULATED AS REQUIRED BY 120.4(A).
31. DUCT SEALING LEAKAGE RATES SHALL BE NO MORE THAN 6% OF AIR FLOW FOR NEW DUCT SYSTEMS AND NO MORE THAN 15% OF AIR FLOW FOR ALTERED EXISTING DUCT SYSTEMS.
32. DUCT SHALL UTILIZE LOW STATIC PRESSURE DESIGN. IDENTIFY THE MOST RESTRICTIVE BRANCH FROM THE FAN TO THE LAST AIR TERMINAL UNIT. IDENTIFY POSSIBLE MEANS OF SIGNIFICANTLY REDUCING THE PRESSURE DROP. BRANCH DUCT SYSTEMS SHALL DESIGNED FOR EQUAL PRESSURE DROP. WHEN POSSIBLE.
33. DUCT BRANCHES WITH SIGNIFICANTLY DIFFERING STATIC PRESSURE REQUIREMENTS SHALL HAVE VOLUME CONTROL STRATEGICALLY PLACED TO AID IN TAB WORK.
34. FAN SHALL DISCHARGE INTO DUCT SECTIONS THAT REMAIN STRAIGHT FOR AS LONG AS POSSIBLE (IDEALLY 10 DUCT DIAMETERS) TO REDUCE FAN INEFFICIENCIES FROM SYSTEM EFFECTS.
35. DUCT VELOCITIES SHALL GENERALLY BE BELOW 2,000 FPM FOR DUCTS IN CEILING PLENUMS, 1500 FPM FOR EXPOSED DUCTS AND 3500 FPM IN MECHANICAL ROOMS AND NON-NOISE SENSITIVE SHAFTS AND DO NOT REDUCE ANY DUCT SIZES LISTED ON PLANS.
36. DUCT FRICTION RATES SHALL GENERALLY BE LESS THAN 0.25" WC PER 100 LINEAL FEET NEARER THE FAN, 0.15 TO 0.20" IN THE MAIN DUCTS AND 0.08 TO 0.12" WC/100' NEARER THE END OF THE SYSTEM. DESIGNS OVER THESE RATES SHALL BE QUESTIONED. VERY ENERGY EFFICIENT DESIGN CAN LOWER THESE VALUES BY UP TO 40%.
37. CONTRACTOR SHOP DRAWINGS SHALL BE SUFFICIENTLY DETAILED TO ENSURE THAT DISTRIBUTION SYSTEM DESIGN INTENT IS ADEQUATELY CONVEYED TO MATCH PLANS. IF SUFFICIENT DETAIL IS NOT INCLUDED IN DRAWINGS, INSTALLATIONS MAY RESULT IN SIGNIFICANTLY HIGHER PRESSURE DROPS AND HENCE HIGHER ENERGY CONSUMPTION AND OTHER OPERATING ISSUES.
38. ACCEPTANCE REQUIREMENTS ARE CLEARLY IDENTIFIED IN CONSTRUCTION DOCUMENTS.
39. COMMISSIONING MEASURES OR REQUIREMENTS ARE REFLECTED IN THE CONSTRUCTION DOCUMENTS.
40. REQUIREMENTS FOR FUNCTIONAL PERFORMANCE TESTS ARE REFLECTED IN THE CONSTRUCTION DOCUMENTS
41. COOLING SYSTEMS IDENTIFIED IN TABLE 140.4-D SHALL HAVE FAN CONTROLS TO VARY THE INDOOR FAN AIRFLOW AS A FUNCTION OF LOAD:
   A. DX AND CHILLED WATER COOLING SYSTEMS THAT CONTROL CAPACITY BASED ON OCCUPIED SPACE TEMPERATURE SHALL HAVE A MINIMUM OF 2 STAGES OF CONTROL.
   B. SYSTEMS THAT CONTROL SPACE TEMPERATURE BY MODULATING AIRFLOW TO THE SPACE SHALL HAVE PROPORTIONAL FAN CONTROL.
   C. SYSTEMS WITH AIR SIDE ECONOMIZER SHALL HAVE A MINIMUM OF 2 SPEEDS OF FAN CONTROL DURING ECONOMIZER OPERATION.
43. FAN CABINET ENCLOSURE AND INTERNAL COMPONENTS SHALL BE ELECTED TO MINIMIZE PRESSURE DROP, E.G. FACE VELOCITY IS LESS THAN 500 FPM, LOW PRESSURE DROP COILS, FILTERS, ETC.
44. FAN WHEEL SHALL BE SELECTED FOR EFFICIENT OPERATION, E.G. LARGER DIAMETER ROTATING AT LOWER SPEED.
45. SYSTEMS THAT SERVE MULTIPLE ZONES SHALL HAVE CONTROLS THAT AUTOMATICALLY RESET SUPPLY AIR TEMPERATURE. ZONES WITH HIGH INTERNAL LOADS WITH NEAR CONSTANT AIRFLOW SHALL BE DESIGNED FOR THE ELEVATED RESET SUPPLY AIR TEMPERATURE. RESET CONTROLS SHALL BE IN RESPONSE TO BUILDING LOADS OR TO OUTDOOR AIR' TEMPERATURE AND SHALL BE AT LEAST 25% OF THE DIFFERENCE BETWEEN SUPPLY AIR AND DESIGN ROOM AIR TEMPERATURE. CONTROL SEQUENCES ARE IDENTIFIED IN CONSTRUCTION DOCUMENTS.
46. SAT RESET SHALL BE ESTABLISHED WITH AN AGGRESSIVE RESET SCHEDULE OF 10F, E.G. 55F DURING WARM WEATHER AND 65F DURING COOL WEATHER.

## GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH CURRENT CALIFORNIA CODE OF REGULATIONS TITLE 24. ALL OTHER APPLICABLE CODES AND REGULATIONS, SMACNA AND ASHRAE GUIDELINES, AND LOCAL CODES.
2. ALL HVAC EQUIPMENT SHALL BE COMPLIANT WITH EFFICIENCY STANDARDS PER TITLE-24, PART 6.
3. ALL FRESH AIR INTAKES SHALL BE AT LEAST 10 FEET IN A HORIZONTAL DIRECTION FROM ALL EXHAUST, FLUE, FUEL BURNING APPLIANCE AND PLUMBING VENT OUTLETS. FOR GAS/ELECTRIC AIR CONDITIONING UNITS WHERE THE CODE REQUIRED CLEARANCES ARE NOT MET, A FACTORY FLUE GAS DEFLECTOR AND EXTENSION SHALL BE USED TO MINIMIZE THESE CLEARANCES. CONTRACTOR SHALL DETERMINE LOCATIONS WHERE REQUIRED PRIOR TO BID. THIS SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
4. AIR FILTERS SHALL BE STATE FIRE MARSHAL APPROVED AND LISTED. PREFORMED FILTERS HAVING COMBUSTIBLE FRAMING SHALL BE TESTED AS A COMPLETE ASSEMBLY. AIR FILTERS IN ALL OCCUPANCIES SHALL BE PER TITLE-24 PART 6 AND APPLICABLE ASHRAE REQUIREMENTS. FILTERS SHALL BE ACCESSIBLE
5. REVIEW THESE PLANS AND SPECIFICATIONS PRIOR TO BID. REVIEW PLANS AND SPECIFICATIONS OF OTHER RELATED TRADES INCLUDING ARCHITECTURAL, STRUCTURAL, ELECTRICAL AND FIRE PROTECTION.
6. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AS THESE ARE PART OF THE CONTRACT DOCUMENTS. WHERE A CONFLICT OCCURS BETWEEN THIS SPECIFICATION AND OTHER SPECIFICATIONS ISSUED AS A PART OF THE CONTRACT DOCUMENTS, THE MORE STRINGENT REQUIREMENT SUPERCEDES.
7. THESE DRAWINGS ARE DIAGRAMMATIC ONLY AND NOT INTENDED TO INDICATE ALL REQUIRED OFFSETS, BENDS, ELBOWS, TRANSITIONS, FITTINGS AS REQUIRED TO CONFORM TO THE BUILDING STRUCTURE, CLEARANCE INSIDE CEILINGS, AVOIDANCE OF OBSTRUCTIONS, AND MAINTAINING HEAD CLEARANCE.
8. COORDINATE INSTALLATION WITH ALL OTHER TRADES PRIOR TO INSTALLATION OF EQUIPMENT OR MATERIALS, INCLUDING BUT NOT LIMITED TO, STRUCTURAL, ARCHITECTURAL, ELECTRICAL, AND PLUMBING.
9. COORDINATE THE LOCATIONS OF ALL CEILING DIFFUSERS, REGISTERS, AND GRILLES WITH THE ARCHITECTURAL REFLECTIVE CEILING PLANS, ELECTRICAL LIGHTING LAYOUT, AND ARCHITECTURAL ROOM ELEVATIONS. THE ARCHITECT AND ENGINEER SHALL BE IMMEDIATELY NOTIFIED OF ANY CONFLICTS PRIOR TO FABRICATION AND INSTALLATION.
10. COORDINATE THE LOCATION OF ALL ROOF OPENINGS AND THE LOCATIONS OF ALL ROOF MOUNTED EQUIPMENT WITH THE STRUCTURAL AND ARCHITECTURAL WEIGHTS FOR PLATFORM AND CURB SIZES, FOR ROOF AND WALL PENETRATION DETAILS AND REQUIREMENTS, SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS. REQUIRED PLATFORMS AND FLASHINGS FOR MECHANICAL EQUIPMENT SHALL BE AS INDICATED ON THE STRUCTURAL AND ARCHITECTURAL PLANS, UNLESS NOTED OTHERWISE.
11. HIRE A TEST AND BALANCE AGENCY TO PERFORM THE TESTING PROCEDURES, REQUIRED BY THE MECH-2A THROUGH MECH-11A CERTIFICATE OF ACCEPTANCE FORMS, AS APPLICABLE FOR ALL NEWLY INSTALLED HEATING AND COOLING SYSTEMS. THE CONTRACTOR AND TEST AND BALANCE AGENCY ARE RESPONSIBLE FOR OBTAINING THE CERTIFICATE OF ACCEPTANCE FORMS REQUIRED BY THE HCR. THE TEST AND BALANCE AGENCY SHALL BE WELL VERSED WITH ALL THE REQUIREMENTS OF THESE CERTIFICATE OF ACCEPTANCE FORMS, AND SHALL COORDINATE AND WORK WITH THE EQUIPMENT AND CONTROLS INSTALLERS TO COMPLY WITH THESE REQUIREMENTS IN A TIMELY MANNER WITHIN THE PROJECT SCHEDULE. THE AIR BALANCE CONTRACTOR SHALL BE A MEMBER OF AABC (ASSOCIATED AIR BALANCE COUNCIL).
12. PAINT ALL EXPOSED DUCTWORK, DUCT SUPPORTS, ACCESSORIES, REGISTERS, GRILLES, DIFFUSERS, AND APPURTENANCES, WHETHER OR NOT COLORS ARE DESIGNATED IN SCHEDULES, EXCEPT WHERE A SURFACE OR MATERIAL IS SPECIFICALLY INDICATED NOT TO BE PAINTED OR IS INDICATED TO BE REMAIN NATURAL. WHERE AN ITEM OR SURFACE IS NOT SPECIFICALLY MENTIONED, PAINT THE SAME AS SIMILAR ADJACENT MATERIALS OR SURFACES. IF COLOR OR FINISH IS NOT DESIGNATED, THE ARCHITECT WILL SELECT FROM STANDARD COLORS OR FINISHES AVAILABLE. PAINTING INCLUDES FIELD PAINTING EXPOSED BARE AND COVERED PIPES AND DUCTS (INCLUDING COLOR CODING), HANGERS, EXPOSED STEEL AND IRON WORK, AND PRIMED METAL SURFACES OF MECHANICAL EQUIPMENT.
13. PROVIDE ALL LABOR, MATERIAL, INSURANCE, EQUIPMENT, INSTALLATION, CONSTRUCTION TOOLS, TRANSPORTATION, AND OTHER WORK AS REQUIRED. FOR A COMPLETE AND PROPERLY OPERATING MECHANICAL SYSTEM.
14. ALL MATERIALS SHALL BE NEW AND OF THE SAME MANUFACTURER FOR EACH CLASS OR GROUP OF EQUIPMENT. EQUIPMENT SHALL BE LISTED AND APPROVED BY UNDERWRITER'S LABORATORIES, AND SHALL BEAR THE INSPECTION LABEL WHERE SUBJECT TO SUCH APPROVAL. MATERIALS SHALL MEET WITH THE APPROVAL OF THE GOVERNING BODIES HAVING JURISDICTION. INSTALLATION SHALL BE MANUFACTURED AND INSTALLED IN ACCORDANCE WITH APPLICABLE STANDARDS ESTABLISHED BY THE LATEST EDITION OF CMC, CBC U.L., SMACNA AND ASHRAE GUIDELINES. INSTALL PER MANUFACTURERS' RECOMMENDATIONS, AND INSTALLATION INSTRUCTIONS.
15. OBTAIN AND PAY FOR ALL NECESSARY BUILDING PERMITS AND VARIANCES. COORDINATE TEMPORARY CONSTRUCTION REQUIREMENTS WITH ALL TRADES PRIOR TO CONSTRUCTION. INCLUDE ALL COSTS IN THE BID.
16. IF THE CONTRACTOR PROPOSES ALTERNATE EQUIPMENT OR MATERIALS, THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL DSA APPROVALS, PAY ALL RELATED FEES AND OBTAIN APPROVAL FROM OWNER & ENGINEER OF RECORD. PROVIDE TITLE-24 COMPLIANCE CERTIFICATION AND ALL ASSOCIATED FEES REQUIRED. COORDINATE SUBMITTED EQUIPMENT WITH OTHER TRADES. INCLUDE IN THE SHOP DRAWING SUBMITTED FOR APPROVAL WITH A DIFFERENT PHYSICAL SIZE OR ARRANGEMENT FROM THAT SHOWN.
17. PROVIDE SHOP DRAWINGS PER PROJECT SCHEDULE, SEE 23 00 00 SPECIFICATIONS FOR REQUIREMENTS. IF SHOP DRAWINGS ARE NOT PROVIDED TO THE ENGINEER FOR REVIEW, AND ANY CONFLICTS OCCUR BETWEEN TRADES, DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK NECESSARY TO RESOLVE THE CONFLICT AND BEAR ALL COSTS INCURRED FOR ALL REVISIONS AT NO ADDITIONAL COST TO THE DISTRICT. THE DISTRICT AND ENGINEER SHALL BE NOTIFIED IMMEDIATELY PRIOR TO FABRICATION AND INSTALLATION OF ALL WORK THAT CAUSES CONFLICTS BETWEEN TRADES.
18. PROVIDE ALL MANUFACTURER'S PRODUCT DATA CLEARLY INDICATING MODEL NUMBERS, CAPACITIES, CONSTRUCTION, ELECTRICAL INFORMATION, AND OPTIONAL ACCESSORIES, PER PROJECT SCHEDULE AND PRIOR TO THE START OF WORK. THESE SHALL BE REVIEWED BY THE MECHANICAL ENGINEER PRIOR TO PURCHASING.
19. SUBMIT TO THE OWNER ALL BROCHURES, OPERATING MANUALS, CATALOGS, SHOP DRAWINGS, "AS-BUILTS ", ETC. AT THE COMPLETION OF THE JOB. PROVIDE THE OWNER WITH COMPLETE MECHANICAL "AS-BUILTS " INDICATING FINAL EQUIPMENT LOCATIONS, DUCTWORK AND PIPE ROUTING, ETC.
20. OBTAIN APPROVAL FROM THE OWNER ON ALL ADDENDA AND CONSTRUCTION CHANGE DOCUMENT (CCD) PRIOR TO DOING THE WORK.
21. INSTALL ALL EQUIPMENT, ACCESSORIES, AND MATERIAL IN STRICT ACCORDANCE WITH THE MANUFACTURER 'S INSTALLATION INSTRUCTIONS AND RECOMMENDATIONS.
22. PROVIDE FIRESTOPPING FOR PIPE AND DUCT PENETRATIONS THROUGH RATED WALLS. CONTRACTOR SHALL COORDINATE WITH OTHER TRADES AS NECESSARY PRIOR TO INSTALLATION.
23. ANY MATERIAL EXPOSED WITHIN A PLENUM OR DUCT MUST HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25, AND A SMOKE DEVELOPED RATING OF NOT MORE THAN 50, AND A MOLD/HUMIDITY RESISTANCE PER U.L. 181.
24. ALL EQUIPMENT, DUCTS, PIPING, AND OTHER DEVICES AND MATERIALS OUTSIDE OF THE BUILDING OR OTHERWISE EXPOSED TO THE WEATHER SHALL BE COMPLETELY WEATHERPROOFED.
25. LOCATE ALL EQUIPMENT SUCH THAT CODE REQUIRED ACCESS IS MAINTAINED, INCLUDING N.E.C. REQUIREMENTS. ACCESS PANELS WHERE REQUIRED, SHALL BE COORDINATED WITH ARCHITECT, AND PROVIDED BY FACTORY OR BE FIELD-PROVIDED. FOR ATTIC EQUIPMENT, G.C. TO PROVIDE A CATWALK & LIGHT PER CMC FOR ATTIC EQUIPMENT.
26. FOR INACCESSIBLE AREAS THE CONTRACTOR SHALL PROVIDE ACCESS PANELS FOR ALL DAMPERS, EQUIPMENT, SMOKE DETECTORS, AND CONTROL DEVICES. THESE PANELS SHALL MATCH THE RATING OF THE WALL AND/OR CEILING WHERE THEY ARE LOCATED IN. MINIMUM ACCESS PANEL SIZES SHALL BE AS FOLLOWS:
   1) HAND ACCESS: 12"x12" MIN.
   2) BODY ACCESS: 30"x30" MIN.
27. ALL EQUIPMENT WITH MOVING PARTS SHALL BE PROVIDED WITH FLEXIBLE DUCT AND PIPE CONNECTIONS.
28. LABEL ALL EQUIPMENT AS TO THE SPACE IT SERVES. SEE SPECIFICATIONS FOR IDENTIFICATION STANDARDS. LABEL DUCT SMOKE DETECTOR LOCATIONS (AT CEILING) AS TO THE EQUIPMENT IT SERVES.
29. A/C UNITS PROVIDED WITH ECONOMIZER CYCLE DAMPERS SHALL HAVE OSA DAMPERS SET UP TO CLOSE AUTOMATICALLY ON FAN SHUT DOWN.
30. PROVIDE MANUAL VOLUME DAMPERS AND BACKDRAFT DAMPERS FOR FRESH AIR INTAKES ON ALL AIR HANDLING EQUIPMENT AND EXHAUST FANS SERVING CONDITIONED SPACES. EXCEPTION: EQUIPMENT WITH FACTORY-ECONOMIZERS.
31. DRAWINGS ARE FOR REFERENCE ONLY. CONTRACTOR TO FIELD VERIFY EXISTING CONDITION PRIOR TO BID DATE.
32. OWNER RETAINS SALVAGE RIGHTS, PROVIDE A MINIMUM OF 72 HOURS NOTICE PRIOR TO REMOVAL OF ROOF TOP UNITS AND EXHAUST FANS.
33. PATCH AND SEAL ALL SLAB, ROOF AND WALL OPENINGS WITH LIKE MATERIAL WHERE MECHANICAL EQUIPMENT ONCE PENETRATED.
34. REMOVE EXISTING AND PROVIDE ALL NEW DUCT AND PIPE HANGER SUPPORTS WHERE DUCT AND PIPE IS BEING REPLACED.
35. PROVIDE ALL NEW PIPE SUPPORTS WHERE PIPING IS SCHEDULED TO BE REPLACED.
36. OUTDOOR REFRIGERANT PIPING TO BE INSULATED AND ALUMINUM WRAPPED.
37. CONTRACTOR IS RESPONSIBLE FOR COMPLETE AND OPERABLE SYSTEM.
38. ALL MECHANICAL EQUIPMENTS, PIPES AND DUCTS SHALL BE SUPPORTED AND BRACED PER THE CURRENT CALIFORNIA BUILDING CODE. ALL MECHANICAL COMPONENTS SHALL BE ABLE TO RESIST THE EFFECTS OF SEISMIC FORCES.
39. MECHANICAL WORK SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL CODES AND REGULATIONS.
40. CONTRACTOR SHALL PROTECT EXISTING BUILDING INFRASTRUCTURE DURING CONSTRUCTION FROM OUTDOOR ELEMENT. IF DAMAGED, CONTRACTOR SHALL REPLACE DAMAGED BUILDING COMPONENTS WITH NEW AT NO ADDITIONAL COST TO THE OWNER.
41. ALL DUCTWORK SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE SMACNA LOW PRESSURE DUCT CONSTRUCTION STANDARDS.
42. ALL DUCT JOINTS SHALL BE MADE WITH MASTIC SEALANT, SHEET METAL SCREWS AND TAPED AIR TIGHT WITH HARDCAST OR EQUIV., MINIMUM 2-1/2" WIDTH.
43. WHERE BRACING DETAILS ARE NOT SHOWN ON THE DRAWINGS OR IN THE GUIDELINES, THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT, MECHANICAL ENGINEER AND DSA FIELD ENGINEER.
44. A COPY OF THE GUIDELINES PUBLISHED BY SMACNA AND APPROVED BY DSA SHALL BE PROVIDED BY THE CONTRACTOR AND KEPT ON THE JOB AT ALL TIMES.
45. CONTRACTOR SHALL COORDINATE ALL DUCTWORK ROUTING WITH WORK OF OTHER TRADES AND MAKE ANY OFFSET AS REQUIRED TO AVOID CONFLICT WITH PIPING, LIGHT FIXTURES, TRUSSES, ETC.
46. COORDINATE ALL EQUIPMENT VOLTAGES WITH ELECTRICAL PRIOR TO ORDERING ANY EQUIPMENT.
47. CONTRACTORS TO REFER TO AQUATICS DWGS FOR COORDINATION AND/OR WORK NOT SHOWN.

## CAL GREEN NOTES

1. TESTING AND ADJUSTING. TESTING AND ADJUSTING OF SYSTEMS SHALL BE REQUIRED FOR NEW BUILDING LESS THAN 10,000 SQUARE FEET OR NEW SYSTEMS TO SERVE AN ADDITION OR ALTERATION SUBJECT TO SECTION 303.1
2. SYSTEMS. DEVELOP A WRITTEN PLAN OF PROCEDURES FOR TESTING AND ADJUSTING SYSTEMS. SYSTEMS TO BE INCLUDED FOR TESTING AND ADJUSTING SHALL INCLUDE, AS APPLICABLE TO THE PROJECT:
   A. HVAC SYSTEMS AND CONTROLS.
   B. INDOOR AND OUTDOOR LIGHTING AND CONTROLS.
   C. WATER HEATING SYSTEMS.
   D. RENEWABLE ENERGY SYSTEMS.
   E. LANDSCAPE IRRIGATION SYSTEMS.
   F. WATER REUSE SYSTEMS.
3. PROCEDURES. PERFORM TESTING AND ADJUSTING PROCEDURES IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND APPLICABLE STANDARDS ON EACH SYSTEM.
   A. HVAC BALANCING. IN ADDITION TO TESTING AND ADJUSTING, BEFORE A NEW SPACE-CONDITIONING SYSTEM SERVING A BUILDING OR SPACE IS OPERATED FOR NORMAL USE, BALANCE THE SYSTEM IN ACCORDANCE WITH THE PROCEDURES DEFINED BY THE TESTING ADJUSTING AND BALANCING BUREAU NATIONAL STANDARDS, THE NATIONAL ENVIRONMENTAL BALANCING BUREAU PROCEDURAL STANDARDS; ASSOCIATED AIR BALANCE COUNCIL NATIONAL STANDARDS OR AS APPROVED BY THE ENFORCING AGENCY.
4. REPORTING. AFTER COMPLETION OF TESTING, ADJUSTING AND BALANCING, PROVIDE A FINAL REPORT OF TESTING SIGNED BY THE INDIVIDUAL RESPONSIBLE FOR PERFORMING THESE SERVICES.
5. OPERATION AND MAINTENANCE (O & M) MANUAL. PROVIDE THE BUILDING OWNER OR REPRESENTATIVE WITH DETAILED OPERATING AND MAINTENANCE INSTRUCTIONS AND COPIES OF GUARANTIES/WARRANTIES FOR EACH SYSTEM. O & M INSTRUCTIONS SHALL BE CONSISTENT WITH OSHA REQUIREMENTS IN CCR, TITLE 8, SECTION 5142, AND OTHER RELATED REGULATIONS.
   A. INSPECTIONS AND REPORTS. INCLUDE A COPY OF ALL INSPECTION VERIFICATIONS AND REPORTS REQUIRED BY THE ENFORCING AGENCY.
6. TEMPORARY VENTILATION. THE PERMANENT HVAC SYSTEM SHALL ONLY BE USED DURING CONSTRUCTION IF NECESSARY TO CONDITION THE BUILDING WITHIN THE REQUIRED TEMPERATURE RANGE FOR MATERIAL AND EQUIPMENT INSTALLATION. IF THE HVAC SYSTEM IS USED DURING CONSTRUCTION, USE RETURN AIR FILTERS WITH A MINIMUM REPORTING VALUE (MERV 13) OF 13, BASED ON ASHRAE 52.2-1999 OR AN AVERAGE EFFICIENCY OF 30 PERCENT BASED ON ASHRAE 52.1-1992. REPLACE ALL FILTERS IMMEDIATELY PRIOR TO OCCUPANCY, OR, IF THE BUILDING IS OCCUPIED DURING ALTERATIONS, AT THE CONCLUSION OF CONSTRUCTION.
7. COVERING OF DUCT OPENINGS AND PROTECTION OF MECHANICAL EQUIPMENT DURING CONSTRUCTION. AT THE TIME OF ROUGH INSTALLATION AND DURING STORAGE ON THE CONSTRUCTION SITE UNTIL FINAL STARTUP OF THE HEATING, COOLING AND VENTILATION EQUIPMENT, ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH WRAP, PLASTIC, SHEET METAL OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY TO REDUCE THE AMOUNT OF DUST, WATER AND DEBRIS WHICH MAY ENTER THE SYSTEM.
8. FILTERS. IN MECHANICALLY VENTILATED BUILDINGS, PROVIDE REGULARLY OCCUPIED AREAS OF THE BUILDING WITH AIR FILTRATION MEDIA FOR OUTSIDE AND RETURN AIR PRIOR TO OCCUPANCY THAT PROVIDE AT LEAST A MINIMUM EFFICIENCY REPORTING VALUE (MERV) 13 OF 13. MERV 13 FILTERS SHALL BE INSTALLED PRIOR TO OCCUPANCY AND RECOMMENDATIONS FOR MAINTENANCE WITH FILTERS OF THE SAME VALUE SHALL BE INCLUDED IN THE OPERATION AND MAINTENANCE MANUAL.
   EXCEPTIONS:
   A. AN ASHRAE 10-PERCENT TO 15-PERCENT EFFICIENCY FILTER SHALL BE PERMITTED FOR AN HVAC UNIT MEETING THE 2019 CALIFORNIA ENERGY CODE HAVING 60,000 BTUH OR LESS CAPACITY PER FAN CO

M0.1 - MECHANICAL TITLE 24

0" 1"

| CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD | NRCC-PRF-E |
|---|---|
| **Nonresidential Performance Compliance Method** | **(Page 1 of 21)** |

| **Project Name:** | **Centennial High School Aquatics Center - Bldg A** | **Date Prepared:** | **2023-04-25** |
|---|---|---|---|

**A. General Information**

| | | | | | |
|---|---|---|---|---|---|
| 1 | Project Name | Centennial High School Aquatics Center - Bldg A | | | |
| 2 | Run Title | Title 24 Analysis | | | |
| 3 | Project Location | 1820 Rimpau Ave | | | |
| 4 | City | Corona | 5 | Standards Version | Compliance 2022 |
| 6 | Zip code | 92881 | 7 | Compliance Software (version) | EnergyPro 9.1 |
| 8 | Climate Zone | 6 | 9 | Building Orientation (deg) | 0 |
| 10 | Building Type(s) | • Nonresidential | 11 | Weather File | TORRANCE-MUNI-AP_STYP20.epw |
| 12 | Project Scope | • Existing addition and alteration | 13 | Number of Dwelling Units | 0 |
| 14 | Total Conditioned Floor Area in Scope ($ft^2$) | 3777.8 | 15 | Total # of hotel/motel rooms | 0 |
| 16 | Total Unconditioned Floor Area ($ft^2$) | 1232.3 | 17 | Fuel Type | Natural gas |
| 18 | Nonresidential Conditioned Floor Area | 3777.8 | 19 | Total # of Stories (Habitable Above Grade) | 1 |
| 20 | Residential Conditioned Floor Area | 0 | | | |



| CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD | NRCC-PRF-E |
|---|---|
| **Nonresidential Performance Compliance Method** | **(Page 2 of 21)** |

**B. PROJECT SUMMARY**

*Table B shows which building components are included in the performance calculation. If indicated as not included, the project must show compliance prescriptively if within the permit application.*

| Building Components Complying via Performance | | | | | | Building Components Complying Prescriptively | |
|---|---|---|---|---|---|---|---|
| Envelope (See Table G) | Nonres | Performance | Solar Thermal Water Heating (See Table I3) | ☐ | Performance | The following building components are ONLY eligible for prescriptive compliance and should be documented on the NRCC form listed if within the scope of the permit application (i.e. compliance will not be shown on the NRCC-PRF-E). | |
| | MultiFam | Not Included | | ☒ | Not Included | | |
| Mechanical (See Table H) | Nonres | Performance | Covered Process: Commercial Kitchens (see Table J) | ☐ | Performance | Indoor Lighting (Unconditioned) 140.6 & 170.2(e) | NRCC-LTI-E is required |
| | MultiFam | Not Included | | ☒ | Not Included | Outdoor Lighting 140.7 & 170.2(e) | NRCC-LTO-E is required |
| Domestic Hot Water (See Table I) | Nonres | Performance | Covered Process: Laboratory Exhaust (see Table J) | ☐ | Performance | Sign Lighting 140.8 & 170.2(e) | NRCC-LTS-E is required |
| | MultiFam | Not Included | | ☒ | Not Included | **Building Components Complying with Mandatory Measures** | |
| Lighting (Indoor Conditioned, see Table K) | Nonres | Performance | Photovoltaics (see Table F) | ☒ | Performance | Electrical power systems, commissioning, solar ready, elevator and escalator requirements are mandatory and should be documented on the NRCC form listed if applicable (i.e. compliance will not be shown on the NRCC-PRF-E.) | |
| | MultiFam | Not Included | | ☐ | Not Included | Electrical Power Distribution 110.11 | NRCC-ELC-E is required |
| | | | Battery (see Table F) | ☐ | Performance | Commissioning 120.8 | NRCC-CXR-E is required |
| | | | | ☒ | Not Included | Solar and Battery 110.10 | NRCC-SAB-E is required |



| CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD | NRCC-PRF-E |
|---|---|
| **Nonresidential Performance Compliance Method** | **(Page 3 of 21)** |

**C1. COMPLIANCE SUMMARY**

| | COMPLIES[2] | | |
|---|---|---|---|
| | Time Dependent Valuation (TDV) | | Source Energy Use |
| | Efficiency[1] (kBtu/$ft^2$ - yr) | Total[2] (kBtu/$ft^2$ - yr) | Total[2] (kBtu/$ft^2$ - yr) |
| Standard Design | 212.5 | 212.5 | 20.31 |
| Proposed Design | 199.27 | 199.27 | 16.13 |
| **Compliance Margins** | **13.23** | **13.23** | **4.18** |
| | **Pass** | **Pass** | **Pass** |

[1] *Efficiency measures include improvements like a better building envelope and more efficient equipment*
[2] *Compliance Totals include efficiency, photovoltaics and batteries*
[3] *Building complies when efficiency and total compliance margins are greater than or equal to zero and unmet load hour limits are not exceeded*



| CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD | NRCC-PRF-E |
|---|---|
| **Nonresidential Performance Compliance Method** | **(Page 4 of 21)** |

**C2. TDV ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/$ft^2$ - yr)**

| | COMPLIES[2] | | |
|---|---|---|---|
| **Energy Component** | **Standard Design (TDV)** | **Proposed Design (TDV)** | **Compliance Margin (TDV)[1]** |
| Space Heating | 2.03 | 3.78 | -1.75 |
| Space Cooling | 40.33 | 36.73 | 3.6 |
| Indoor Fans | 85.91 | 105.2 | -19.29 |
| Heat Rejection | 0 | 0 | 0 |
| Pumps & Misc. | 0 | 0 | 0 |
| Domestic Hot Water | 39.66 | 8.99 | 30.67 |
| Indoor Lighting | 44.57 | 44.57 | 0 |
| Flexibility | --- | --- | --- |
| **EFFICIENCY COMPLIANCE TOTAL** | **212.5** | **199.27** | **13.23 (6.2%)** |
| Photovoltaics | --- | --- | --- |
| Batteries | --- | --- | --- |
| **TOTAL COMPLIANCE** | **212.5** | **199.27** | **13.23 (6.2%)** |

[1] *Notes: This number in parenthesis following the Compliance Margin in column 4, represents the Percent Better than Standard.*



| CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD | NRCC-PRF-E |
|---|---|
| **Nonresidential Performance Compliance Method** | **(Page 5 of 21)** |

**C3. TDV ENERGY RESULTS FOR NON-REGULATED COMPONENTS[1]**

| Non-Regulated Energy Component | Standard Design (TDV) | Proposed Design (TDV) | Compliance Margin (TDV)[1] |
|---|---|---|---|
| Receptacle | 192.11 | 192.11 | --- |
| Process | --- | --- | --- |
| Other Ltg | 12.38 | 12.38 | --- |
| Process Motors | --- | --- | --- |
| **TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)** | **416.99** | **403.76** | **13.23 (3.2%)** |

[1] *Notes: This table is not used for Energy Code Compliance.*



| CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD | NRCC-PRF-E |
|---|---|
| **Nonresidential Performance Compliance Method** | **(Page 6 of 21)** |

**C4. SOURCE ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual SOURCE Energy Use, kBtu/$ft^2$ /yr)**

| | COMPLIES[2] | | |
|---|---|---|---|
| **Energy Component** | **Standard Design (SOURCE)** | **Proposed Design (SOURCE)** | **Compliance Margin (SOURCE)[1]** |
| Space Heating | 0.66 | 0.51 | 0.15 |
| Space Cooling | 2.03 | 1.52 | 0.51 |
| Indoor Fans | 7.61 | 9.37 | -1.76 |
| Heat Rejection | 0 | 0 | 0 |
| Pumps & Misc. | 0 | 0 | 0 |
| Domestic Hot Water | 6.08 | 0.8 | 5.28 |
| Indoor Lighting | 3.93 | 3.93 | 0 |
| Flexibility | --- | --- | --- |
| **EFFICIENCY COMPLIANCE TOTAL** | **20.31** | **16.13** | **4.18 (20.6%)** |
| Photovoltaics | --- | --- | --- |
| Batteries | --- | --- | --- |
| **TOTAL COMPLIANCE** | **20.31** | **16.13** | **4.18 (20.6%)** |

[1] *Notes: This number in parenthesis following the Compliance Margin in column 4, represents the Percent Better than Standard.*



| CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD | NRCC-PRF-E |
|---|---|
| **Nonresidential Performance Compliance Method** | **(Page 7 of 21)** |

**C5. SOURCE ENERGY RESULTS FOR NON-REGULATED COMPONENTS[1]**

| Non-Regulated Energy Component | Standard Design (SOURCE) | Proposed Design (SOURCE) | Compliance Margin (SOURCE)[1] |
|---|---|---|---|
| Receptacle | 16.85 | 16.85 | --- |
| Process | --- | --- | --- |
| Other Ltg | 1.09 | 1.09 | --- |
| Process Motors | --- | --- | --- |
| **TOTAL ( TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)** | **38.25** | **34.07** | **4.18 (10.9%)** |

[1] *Notes: This table is not used for Energy Code Compliance.*

**C6. 'ABOVE CODE' QUALIFICATIONS**

☐ This project is pursuing CalGreen Tier 1 ☐ This project is pursuing CalGreen Tier 2



| CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD | NRCC-PRF-E |
|---|---|
| **Nonresidential Performance Compliance Method** | **(Page 8 of 21)** |

**C7. ENERGY USE SUMMARY**

| Energy Component | Standard Design Site (MWh) | Proposed Design Site (MWh) | Margin (MWh) | Standard Design Site (MBtu) | Proposed Design Site (MBtu) | Margin (MBtu) |
|---|---|---|---|---|---|---|
| Space Heating | --- | 0.5 | --- | 2.7 | --- | --- |
| Space Cooling | 4.7 | 3.1 | 1.6 | --- | --- | --- |
| Indoor Fans | 11.7 | 14.3 | -2.6 | --- | --- | --- |
| Heat Rejection | --- | --- | --- | --- | --- | --- |
| Pumps & Misc. | --- | --- | --- | --- | --- | --- |
| Domestic Hot Water | 4.4 | 1.3 | 3.1 | 10.1 | --- | --- |
| Indoor Lighting | 5.9 | 5.9 | 0 | --- | --- | --- |
| Flexibility | --- | --- | --- | --- | --- | --- |
| **EFFICIENCY TOTAL** | **26.7** | **25.1** | **1.6** | **12.8** | **0** | **12.8** |
| Photovoltaics | --- | --- | --- | --- | --- | --- |
| Batteries | --- | --- | --- | --- | --- | --- |
| **ENERGY USE SUBTOTAL** | **26.7** | **25.1** | **1.6** | **12.8** | **0** | **12.8** |
| Receptacle | 25.6 | 25.6 | 0 | --- | --- | --- |
| Process | --- | --- | --- | --- | --- | --- |
| Other Ltg | 1.6 | 1.6 | 0 | --- | --- | --- |
| Process Motors | --- | --- | --- | --- | --- | --- |
| **ENERGY USE TOTAL** | **53.9** | **52.3** | **1.6** | **12.8** | **0** | **12.8** |



| CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD | NRCC-PRF-E |
|---|---|
| **Nonresidential Performance Compliance Method** | **(Page 9 of 21)** |

**C8. ENERGY USE INTENSITY (EUI)**

| | Standard Design (kBtu/$ft^2$ / yr) | Proposed Design (kBtu/$ft^2$ / yr) | Margin (kBtu/$ft^2$ / yr) | Margin Percentage |
|---|---|---|---|---|
| GROSS EUI[1] | 39.26 | 35.62 | 3.64 | 9.27 |
| NET EUI[1] | 39.26 | 35.62 | 3.64 | 9.27 |

[1] *Notes: Gross EUI is Energy Use Total (not including PV)/Total Building Area. Net EUI is Energy Use Total (including PV)/Total Building Area.*

**D1. EXCEPTIONAL CONDITIONS**

• The aged solar reflectance and aged thermal emittance must be listed in the Cool Roof Rating Council database of certified products. For projects where initial reflectance is used, the initial reflectance must be listed, and the aged reflectance is calculated by the software program and used in the compliance model.
• The project uses the Simplified Geometry Performance Modeling Approach which is not capable of modeling daylighting controls and assumes the prescriptive Secondary Daylit Control requirements are met. PRESCRIPTIVE COMPLIANCE documentation (form NRCC-LTI-02-E) for the requirements of section 140.6(d) Automatic Daylighting Controls in Secondary Daylit Zones is required.
• The project includes windows which have been classified as clerestory windows. Please verify that clerestories are present, and that daylighting controls are present for these areas. Clerestory windows do not trigger mandatory daylighting control requirements, and may allow users to claim PAF credit for daylighting controls in areas illuminated by clerestories. .

**F1. REQUIRED PV SYSTEMS**

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **DC System Size (kWdc)** | **Exception[1]** | **Module Type** | **Array Type** | **Power Electronics** | **CFI** | **Azimuth (deg)** | **Tilt Input** | **Array Angle (deg)** | **Tilt: (≤ in 12)** | **Inverter Eff. (%)** | **Annual Solar Access (%)** |

[1] *See Table D1 for any PV exceptions used.*



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CENTENNIAL HIGH SCHOOL AQUATICS CENTER

PROJECT ADDRESS:
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CORONA, CA 92881

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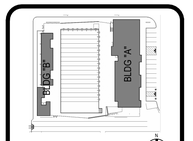
DSA APPL NO.: ##-##### DSA FILE NO.: ##-##




KEY PLAN NORTH: PLAN

Consultant

REGISTERED PROFESSIONAL ENGINEER REX DAVID WANG No.M36155 Exp.09-30-2024 MECHANICAL STATE OF CALIFORNIA

Architect

CLIENT
CNUSD

DATE 2/24/2023
PROJECT NUMBER 220306

REVISIONS

| No. | Description | Date |
|---|---|---|
| | | |

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MECHANICAL TITLE 24

M0.1

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**CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD** NRCC-PRF-E

**Nonresidential Performance Compliance Method** (Page 10 of 21)

**F1B. PV BATTERY BUILDING TYPE(S)**

| 01 | 02 | 03 |
|---|---|---|
| Building Occupancy Type[1] (From Table 140.10-A/B and 170.2-U/V) | Conditioned Floor Area (ft²) | Unconditioned Floor Area (ft²) |
| Grocery | 0 | 0 |
| High-Rise Multifamily | 0 | 0 |
| Office, Financial Institutions, Unleased Tenant Space | 0 | 0 |
| Retail | 0 | 0 |
| School | 3777.8 | 1232.3 |
| Warehouse | 0 | 0 |
| Auditorium, Convention Center, Hotel/Motel, Library, Medical Office Building/Clinic, Restaurant, Theater | 0 | 0 |
| None | 0 | 0 |

[1] *Building Occupancy Types are defined in Section 100.1 of the Energy Code*

**G1. ENVELOPE GENERAL INFORMATION (conditioned spaces only)**

| 01 | 02 | 03 | 04 |
|---|---|---|---|
| Opaque Surfaces & Orientation | Total Gross Surface Area (ft²) | Total Fenestration Area (ft²) | Window to Wall Ratio (%) |
| North-Facing[1] | 423 | 0 | 0 |
| East-Facing[2] | 1538.8 | 168.8 | 10.97 |
| South-Facing[3] | 580 | 12 | 2.07 |
| West-Facing[4] | 1452 | 234.9 | 16.18 |
| **Total** | **3993.8** | **415.7** | **10.41** |
| Roof | 3777.8 | 0 | |

*Notes*
[1] *North-Facing is oriented to within 45 degrees of true north, including 45 00'00" east of north (NE), but excluding 45 00'00" west of north (NW);*
[2] *East-Facing is oriented to within 45 degrees of true east, including 45 00'00" south of east (SE), but excluding 45 00'00" north of east (NE);*
[3] *South-Facing is oriented to within 45 degrees of true south, including 45 00'00" west of south (SW), but excluding 45 00'00" east of south (SE);*
[4] *West-Facing is oriented to within 45 degrees of true west, including 45 00'00" north of west (NW), but excluding 45 00'00" south of west (SW),*



**CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD** NRCC-PRF-E

**Nonresidential Performance Compliance Method** (Page 11 of 21)

**G2A. ROOFING PRODUCT SUMMARY (NONRESIDENTIAL)**

| 01 | 02 | 03 | 04 | 05 | 06 |
|---|---|---|---|---|---|
| Assembly Name | Roof Pitch | Roof Rise (x in 12) | Aged Solar Reflectance | Thermal Emittance | SRI |
| R-27.5 Above Deck Roof pr11 | LowSlope | N/A | 0.63 | 0.75 | N/A |

**G4. NONRESIDENTIAL AIR BARRIER**

| 01 | 02 |
|---|---|
| Building Story Name | Air Barrier |
| Com-Floor 1 | No air barrier |



**CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD** NRCC-PRF-E

**Nonresidential Performance Compliance Method** (Page 12 of 21)

**G5. OPAQUE SURFACE ASSEMBLY SUMMARY**

| 01 | 02 | 03 | 04 | 05 | 06 | | 07 | 08 | 09 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|
| Surface Name | Construction Type | Area (ft²) | Framing Type | Cavity R-Value | Continuous R-Value | | Units | Value | Description of Assembly Layers | Status[1] |
| | | | | | Interior | Exterior | | | | |
| Slab On Grade9 | Underground Floor | 5,010.1 | N/A | 0 | N/A | N/A | F-factor | 0.73 | Slab Type =Unheated slab on grade<br>Insulation Orientation =None<br>Insulation R-Value =none | N |
| R-27.5 Above Deck Roof pr11 | Roof | 5,010.1 | Metal | 0 | N/A | 27.5 | U-factor | 0.0335 | Built-up roofing - 3/8 in.<br>Plywood - 1/2 in.<br>Extruded Polystyrene - XPS - 5 1/2 in. R27.50<br>Metal Deck - 1/16 in.<br>Air - Metal Wall Framing - 16 or 24 in. OC | N |
| 8 CMU Wall13 | Exterior Wall | 3,871.8 | N/A | 0 | N/A | N/A | U-factor | 0.579 | Concrete - Solid Grout - 115 lb/ft3 - 8 in. | N |
| R-21 Wall + R-5 Rigid17 | Exterior Wall | 1,229 | Metal | 21 | N/A | 5 | U-factor | 0.0932 | Stucco - 7/8 in.<br>Vapor permeable felt - 1/8 in.<br>Composite-1<br>Extruded Polystyrene - XPS - 1 in. R5.00<br>Gypsum Board - 5/8 in. | N |
| 8 Concrete Wall76 | Underground Wall | 554 | N/A | 0 | N/A | N/A | C-factor | 1.69 | Concrete - 140 lb/ft3 - 8 in. | N |
| 8 CMU Wall133 | Underground Wall | 65.4 | N/A | 0 | N/A | N/A | C-factor | 1.14 | Concrete - Solid Grout - 115 lb/ft3 - 8 in. | N |
| 8 CMU Wall132 | Interior Wall | 728 | N/A | 0 | N/A | N/A | U-factor | 0.447 | Concrete - Solid Grout - 115 lb/ft3 - 8 in. | N |

[1] *Status: N - New, A - Altered, E - Existing*



**CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD** NRCC-PRF-E

**Nonresidential Performance Compliance Method** (Page 13 of 21)

**G6A. OPAQUE DOOR SUMMARY (NONRESIDENTIAL)**

| 01 | 02 | 03 | 04 |
|---|---|---|---|
| Assembly Name | Area (ft²) | Overall U-factor | Status[1] |
| Metal Door15 | 245 | 0.7 | N |

[1] *Status: N - New, A - Altered, E - Existing*

**G7A. FENESTRATION ASSEMBLY SUMMARY (NONRESIDENTIAL)**

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 |
|---|---|---|---|---|---|---|---|---|
| Fenestration Assembly Name | Fenestration Type/ Product Type / Frame Type | Certification Method[1] | Assembly Method | Area (ft²) | Overall U-factor | Overall SHGC | Overall VT | Status[2] |
| Storefront Wall Low-E | Vertical fenestration<br>Curtain wall<br>N/A | NFRC | Site built | 394.7 | 0.41 | 0.26 | 0.46 | N |
| Standard Door Low-E | Vertical fenestration<br>Glazed door<br>N/A | NFRC | Site built | 21 | 0.45 | 0.23 | 0.17 | N |

[1] *Notes: Newly installed fenestration shall have a certified NFRC Label Certificate or use the CEC default tables found in Table 110.6-A and Table 110.6-B. Center of Glass (COG) values are for the glass-only, determined by the manufacturer, and are shown for ease of verification. Site-built fenestration values are calculated per Nonresidential Appendix NA6 and are used in the analysis.*
[2] *Status: N - New, A - Altered, E - Existing*



**CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD** NRCC-PRF-E

**Nonresidential Performance Compliance Method** (Page 14 of 21)

**G8. OVERHANG DETAILS**

| 01 | 02 | 03 | 04 | 05 | 06 | 07 |
|---|---|---|---|---|---|---|
| Fenestration Tag/ ID | Azimuth | Depth (ft) | Height from Top of Sill to Overhang (ft) | Right Extent (ft) | Left Extent (ft) | Flap Height |
| 128.34 Window18 | 90 | 2.75 | 12 | 13.33 | 0 | N/A |
| 128.34 Window19 | 90 | 2.75 | 12 | 0 | 13.33 | N/A |
| 60.18 Window56 | 270 | 10.67 | 13.67 | 20 | 20 | N/A |
| 60.18 Window65 | 270 | 10.67 | 13.67 | 20 | 20 | N/A |
| 181.80 Window103 | 270 | 10.67 | 12 | 20 | 20 | N/A |
| 32.18 Window104 | 270 | 10.67 | 12 | 20 | 20 | N/A |
| 30.70 Door105 | 270 | 10.67 | 12 | 20 | 20 | N/A |

**G9. FIN DETAILS**

| 01 | 02 | | 03 | | 04 | | 05 | |
|---|---|---|---|---|---|---|---|---|
| Fenestration Tag/ ID | Left Fin | | | | Right Fin | | | |
| | Depth (ft) | | Distance Left from Window (ft) | | Depth (ft) | | Distance Right from Window (ft) | |
| 20.60 Window112 | 20 | | 15.33 | | | | | |



**CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD** NRCC-PRF-E

**Nonresidential Performance Compliance Method** (Page 15 of 21)

**H1. DRY SYSTEM EQUIPMENT (FURNACES, AIR HANDLING UNITS, HEAT PUMPS, VRF, ECONOMIZERS ETC.)**

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Equipment Name | Equipment Type | Qty | Heating | | | | Cooling | | | Economizer Type (if present) | Status[1] |
| | | | Total Heating Output (kBtu/h) | Supp Heat Output (kBtu/h) | Efficiency Unit | Efficiency | Total Cooling Output (kBtu/h) | Efficiency Unit | Efficiency | | |
| RTHP-1 | Single Zone Heat Pump (SZHP) Air System | 1 | 83 | 0 | COP | 3.4 | 82.3 | EER | 11.2 | Fixed DB | N |
| RTHP-2 | Single Zone Heat Pump (SZHP) Air System | 1 | 24 | 0 | N/A | NA | 23.2 | EER2<br>SEER2 | 12<br>14.5 | Fixed DB | N |
| AC-A1 | Single Zone Heat Pump (SZHP) Air System | 1 | 12 | 0 | N/A | NA | 12 | EER2<br>SEER2 | 12.9<br>15.8 | No Economizer | N |
| AC-A2 | Single Zone Heat Pump (SZHP) Air System | 1 | 30 | 0 | N/A | NA | 36 | EER2<br>SEER2 | 12<br>16 | No Economizer | N |

[1] *Status: N - New, A - Altered, E - Existing*

**H3. NONRESIDENTIAL / COMMON USE AREA FAN SYSTEMS SUMMARY**

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Name or Item Tag | Qty | Design OA CFM | Supply Fan | | | | Return / Relief Fan | | | | | Status[1] |
| | | | CFM | Power | Power Units | Control | Fan Type | CFM | Power | Power Units | Control | |
| RTHP-1 | 1 | 20.18 | 3,000 | 0.8 | BHP | Constant Vol | N/A | 3,000 | 0 | BHP | Constant Vol | N |
| RTHP-2 | 1 | 61.83 | 800 | 0.25 | BHP | Constant Vol | N/A | 3,000 | 0 | BHP | Constant Vol | N |
| AC-A1 | 1 | 29.63 | 400 | 0.1 | BHP | Constant Vol | N/A | N/A | N/A | N/A | N/A | N |
| AC-A2 | 1 | 0 | 870 | 0.16 | BHP | Constant Vol | N/A | N/A | N/A | N/A | N/A | N |

[1] *Status: N - New, A - Altered, E - Existing*



**CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD** NRCC-PRF-E

**Nonresidential Performance Compliance Method** (Page 16 of 21)

**H5. GENERAL EXHAUST FAN SUMMARY**

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 |
|---|---|---|---|---|---|---|---|
| System ID | Zone Name | Qty | CFM | Power | Power Units | Continuous Operation? | Status[1] |
| Lockers/Restrooms3 | 1-Lockers/Restrooms | 1 | 3030 | 1.5 | BHP | No | N |

[1] *Status: N - New, A - Altered, E - Existing*

**H8. SYSTEM SPECIAL FEATURES**

| 01 | 02 | 03 | 04 |
|---|---|---|---|
| System Name | Equipment Type | Interlocks per 140.4(k)[1] | Other Special Features and Controls |
| RTHP-1 | Single Zone Heat Pump (SZHP) Air System | N/A | Heat Recovery<br>Fixed DB |
| RTHP-2 | Single Zone Heat Pump (SZHP) Air System | N/A | Fixed DB |
| DHW1 - SHW | Service Hot Water | N/A | Fixed Temperature Control |

*Notes: This table includes controls related to the performance path only. For projects using the prescriptive path, mandatory and prescriptive controls requirements are documented on the NRCC-MCH-E.*
[1] *Yes = interlocks are provided, No = interlocks are not provided, NA means no operable openings.*

**H9. NONRESIDENTIAL / COMMON USE AREA & HOTEL/MOTEL VENTILATION**

| 01 | 02 | 03 | 04 | 05 | 06 | 07 |
|---|---|---|---|---|---|---|
| Zone Name | Mechanical Ventilation | | | | Conditioned Area (sf) | DCV or Occupant Sensor Controls, or Both |
| | Ventilation Function | # of People# of People | Supply OA CFM | Exhaust CFM | | |
| 1-Lockers/Restrooms | Exhaust - Locker rooms for athletic or industrial facilities Misc - All others General - Unoccupied | 27.75 | 20.18 | 3030 | 3014.6 | N/A |
| 3-A100 Coachs Office | Office - Office space | 2.06 | 61.83 | 0 | 412.2 | N/A |



**CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD** NRCC-PRF-E

**Nonresidential Performance Compliance Method** (Page 17 of 21)

**H9. NONRESIDENTIAL / COMMON USE AREA & HOTEL/MOTEL VENTILATION**

| 01 | 02 | 03 | 04 | 05 | 06 | 07 |
|---|---|---|---|---|---|---|
| Zone Name | Mechanical Ventilation | | | | Conditioned Area (sf) | DCV or Occupant Sensor Controls, or Both |
| | Ventilation Function | # of People# of People | Supply OA CFM | Exhaust CFM | | |
| 4-A113 Pool Attendant Offic | Office - Office space | 0.99 | 29.63 | 0 | 197.5 | N/A |
| 5-A112 Elec Room | General - Unoccupied | 0.23 | 0 | 0 | 153.5 | N/A |

**H11. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY**

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| System ID | System Type | Qty | Rated Capacity (kBtuh) | | Airflow (cfm) | | | Fan | | | VSD |
| | | | Heating | Cooling | Design | Min. | Min. Ratio | Power | Power Units | Cycles | |
| 1-Lockers/Restrooms-Trm | Uncontrolled | 1 | N/A | N/A | 3,000 | N/A | 0 | N/A | N/A | N/A | ☐ |
| 3-A100 Coachs Office-Trm | Uncontrolled | 1 | N/A | N/A | 800 | N/A | 0 | N/A | N/A | N/A | ☐ |
| 4-A113 Pool Attendant Offic-Trm | Uncontrolled | 1 | N/A | N/A | 400 | N/A | 0 | N/A | N/A | N/A | ☐ |
| 5-A112 Elec Room-Trm | Uncontrolled | 1 | N/A | N/A | 870 | N/A | 0 | N/A | N/A | N/A | ☐ |

**H13. ENERGY RECOVERY SUMMARY**

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 |
|---|---|---|---|---|---|---|---|---|---|
| Equipment Name | Equipment Type | Equipment Type | Heating | | | Cooling | | | Status[1] |
| | | | Sensible | Latent | Total | Sensible | Latent | Total | |
| RTHP-1 | Single Zone Heat Pump (SZHP) Air System | HVI | 0.8 | 0 | 0 | 0.8 | 0 | 0 | N |

[1] *Status: N - New, A - Altered, E - Existing*



**CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD** NRCC-PRF-E

**Nonresidential Performance Compliance Method** (Page 18 of 21)

**I1. WATER HEATER EQUIPMENT SUMMARY**

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Name | Heater Element Type | Tank Type | Qty | Tank Vol (gal) | Rated Input | Rated Input Unit | Efficiency | Efficiency Unit | Tank Insulation R-value Int/Ext | Standby Loss Fraction | 1st Hr Rating or Flow Rate (gal) | Heat Pump Type | Tank Location or Ambient Condition |
| Bradford White VR-200-542 | Electricity | Storage | 1 | 200 | 53.98 | kW | kW | TE | N/A | 0 | N/A | N/A | N/A |

**K1. INDOOR CONDITIONED LIGHTING GENERAL INFO**

| 01 | 02 | 03 | 04 | 05 | 06 |
|---|---|---|---|---|---|
| Occupancy Type[1] | Conditioned Floor Area[2] (ft²) | Installed Lighting Power (Watts) | Lighting Control Credits (Watts) | Additional (Custom) Allowance | |
| | | | | Area Category Footnotes (Watts) | Area Category Footnotes (Watts/ft²) |
| All Other Space Types | 237.4 | 94.96 | 0 | 0 | 0 |
| Electrical Mechanical Telephone Room | 153.5 | 61.4 | 0 | 0 | 0 |
| Locker/Dressing Room | 2642.7 | 1189.21 | 0 | 0 | 0 |
| Office ( 250 square feet) | 412.2 | 247.32 | 0 | 0 | 0 |
| Office ( 250 square feet) | 197.5 | 128.38 | 0 | 0 | 0 |
| Commercial Industrial Warehouse | 134.5 | 53.8 | 0 | 0 | 0 |
| **Building Totals:** | **3777.8** | **1775.07** | **0** | **0** | **0** |

[1] *See Table 140.6-C*
[2] *See NRCC-LTI--E for unconditioned spaces*
[3] *Lighting information for existing spaces modeled is not included in this table*

**K4. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROL**

**Building Level Controls**



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# CENTENNIAL HIGH SCHOOL AQUATICS CENTER

PROJECT ADDRESS:
1820 RIMPAU AVE.
CORONA, CA 92881

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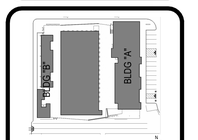


KEY PLAN NORTH: PLAN

Consultant

REGISTERED PROFESSIONAL ENGINEER REX DAVID WANG No.M36155 Exp.09-30-2024 MECHANICAL STATE OF CALIFORNIA

Architect

CLIENT
CNUSD

DATE 2/24/2023
PROJECT NUMBER 220306

REVISIONS

| No. | Description | Date |
|---|---|---|
| | | |

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MECHANICAL TITLE 24

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| CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD | NRCC-PRF-E |
|---|---|
| Nonresidential Performance Compliance Method | (Page 19 of 21) |

| 01 | 02 |
|---|---|
| Mandatory Demand Response 110.12(c) | Shut-Off Controls 130.1(c) & 160.5(b)4C |
| Required | Required |
| See NRCC-LTI-E for mandatory controls | |

**L. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION**

Selections made by Documentation Author indicate which Certificates of Installation must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online

| Building Component | Form/Title |
|---|---|
| Envelope | NRCI-ENV-01-E - Must be submitted for all buildings |
| Envelope | NRCI-ENV-E - Envelope (for all buildings) |
| Mechanical | NRCI-MCH-01-E - Must be submitted for all buildings |
| Mechanical | NRCI-MCH-E - For all buildings with Mechanical Systems |
| Plumbing | NRCI-PLB-01-E - Must be submitted for all buildings |
| Plumbing | NRCI-PLB-E - For all buildings with Plumbing Systems |
| Indoor Lighting | NRCI-LTI-01-E - Must be submitted for all buildings |
| Indoor Lighting | NRCI-LTI-E - Indoor Lighting (for all buildings) |

**M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE**

Selections made by Documentation Author indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP).

| Building Component | Form/Title |
|---|---|
| Envelope | NRCA-ENV-02-F - NRFC label verification for fenestration |
| Indoor Lighting | NRCA-LTI-02-A - Occupancy Sensors and Automatic Time Switch Controls |
| Mechanical | NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap |
| Mechanical | NRCA-MCH-03-A - Constant Volume Single Zone HVAC |
| Mechanical | NRCA-MCH-05-A - Air Economizer Controls |
| Mechanical | NRCA-MCH-12-A FDD for Packaged Direct Expansion Units |



| CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD | NRCC-PRF-E |
|---|---|
| Nonresidential Performance Compliance Method | (Page 20 of 21) |

**N. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION**

Selections made by Documentation Author indicate which Certificates of Verification must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online

There are no Certificates of Verification applicable to this project



| CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD | NRCC-PRF-E |
|---|---|
| Nonresidential Performance Compliance Method | (Page 21 of 21) |

**Documentation Author's Declaration Statement**

**I, I certify that this Certificate of Compliance documentation is accurate and complete.**

| | |
|---|---|
| Documentation Author Name: Faisal Maseed | Documentation Author Signature: Faisal Maseed |
| Company: Leaf Engineers | Signature Date: 4/25/2023 |
| Address: 8163 Rochester Ave Suite 100 | CEA/HERS Certification Identification (if applicable): |
| City/State/Zip: Rancho Cucamunga, CA 91730 | Phone: |

**Responsible Person's Declaration statement**

**I certify the following under penalty of perjury, under the laws of the State of California:**

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I understand that a registered copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections, and I will take the necessary steps to accomplish this requirement.
6. I understand that a registered copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy, and I will take the necessary steps to accomplish these requirements.

| | |
|---|---|
| Responsible Designer Name: PBK | Responsible Designer Signature: |
| Company: PBK | |
| Address: 8163 Rochester Ave Suite 100 | Date Signed: |
| City/State/Zip: Rancho Cucamonga, CA 91730 | License #: |
| Phone: 909-987-0909 | Title: Scope: |
| Responsible Designer Name: LEAF Egineers | Responsible Designer Signature: |
| Company: LEAF Engineers | |
| Address: 8163 Rochester Ave Suite 100 | Date Signed: 4/25/2023 |
| City/State/Zip: Rancho Cucamonga, CA 91730 | License #: M33380 |
| Phone: 909-987-0909 | Title: Scope: |



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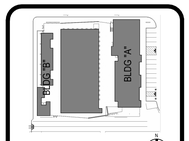
CENTENNIAL HIGH SCHOOL
AQUATICS CENTER

PROJECT ADDRESS:
1820 RIMPAU AVE.
CORONA, CA 92881

100% CONSTRUCTION DOCUMENTS

DSA APPL NO.: ##-##### DSA FILE NO.: ##-##




KEY PLAN NORTH PLAN

Consultant

REGISTERED PROFESSIONAL ENGINEER
REX DAVID WARD
No.M36155
Exp.09-30-2024
MECHANICAL
STATE OF CALIFORNIA

Architect

CLIENT
CNUSD

| DATE | PROJECT NUMBER |
|---|---|
| 2/24/2023 | 220306 |

REVISIONS

| No. | Description | Date |
|---|---|---|
| | | |

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MECHANICAL TITLE 24

M0.3

M0.4 - MECHANICAL TITLE 24

0" 1"

| CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD | NRCC-PRF-E |
|---|---|
| **Nonresidential Performance Compliance Method** | **(Page 1 of 17)** |
| **Project Name:** Centennial High School Aquatics Center - Bldg B | **Date Prepared:** 2023-04-25 |

**A. General Information**

| | | | | | |
|---|---|---|---|---|---|
| 1 | Project Name | Centennial High School Aquatics Center - Bldg B | | | |
| 2 | Run Title | Title 24 Analysis | | | |
| 3 | Project Location | 1820 Rimpau Ave | | | |
| 4 | City | Corona | 5 | Standards Version | Compliance 2022 |
| 6 | Zip code | 92881 | 7 | Compliance Software (version) | EnergyPro 9.1 |
| 8 | Climate Zone | 6 | 9 | Building Orientation (deg) | 0 |
| 10 | Building Type(s) | • Nonresidential | 11 | Weather File | TORRANCE-MUNI-AP_STYP20.epw |
| 12 | Project Scope | • Existing addition and alteration | 13 | Number of Dwelling Units | 0 |
| 14 | Total Conditioned Floor Area in Scope ($ft^2$) | 185 | 15 | Total # of hotel/motel rooms | 0 |
| 16 | Total Unconditioned Floor Area ($ft^2$) | 667 | 17 | Fuel Type | Natural gas |
| 18 | Nonresidential Conditioned Floor Area | 185 | 19 | Total # of Stories (Habitable Above Grade) | 1 |
| 20 | Residential Conditioned Floor Area | 0 | | | |



| CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD | NRCC-PRF-E |
|---|---|
| **Nonresidential Performance Compliance Method** | **(Page 2 of 17)** |

**B. PROJECT SUMMARY**

*Table B shows which building components are included in the performance calculation. If indicated as not included, the project must show compliance prescriptively if within the permit application.*

| Building Components Complying via Performance | | | | | | Building Components Complying Prescriptively | |
|---|---|---|---|---|---|---|---|
| Envelope (See Table G) | Nonres | Performance | Solar Thermal Water Heating (See Table I3) | ☐ | Performance | The following building components are ONLY eligible for prescriptive compliance and should be documented on the NRCC form listed if within the scope of the permit application (i.e. compliance will not be shown on the NRCC-PRF-E). | |
| | MultiFam | Not Included | | ☒ | Not Included | | |
| Mechanical (See Table H) | Nonres | Performance | Covered Process: Commercial Kitchens (see Table J) | ☐ | Performance | Indoor Lighting (Unconditioned) 140.6 & 170.2(e) | NRCC-LTI-E is required |
| | MultiFam | Not Included | | ☒ | Not Included | Outdoor Lighting 140.7 & 170.2(e) | NRCC-LTO-E is required |
| Domestic Hot Water (See Table I) | Nonres | Performance | Covered Process: Laboratory Exhaust (see Table J) | ☐ | Performance | Sign Lighting 140.8 & 170.2(e) | NRCC-LTS-E is required |
| | MultiFam | Not Included | | ☒ | Not Included | **Building Components Complying with Mandatory Measures** | |
| Lighting (Indoor Conditioned, see Table K) | Nonres | Performance | Photovoltaics (see Table F) | ☒ | Performance | Electrical power systems, commissioning, solar ready, elevator and escalator requirements are mandatory and should be documented on the NRCC form listed if applicable (i.e. compliance will not be shown on the NRCC-PRF-E.) | |
| | MultiFam | Not Included | | ☐ | Not Included | Electrical Power Distribution 110.11 | NRCC-ELC-E is required |
| | | | Battery (see Table F) | ☐ | Performance | Commissioning 120.8 | NRCC-CXR-E is required |
| | | | | ☒ | Not Included | Solar and Battery 110.10 | NRCC-SAB-E is required |



| CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD | NRCC-PRF-E |
|---|---|
| **Nonresidential Performance Compliance Method** | **(Page 3 of 17)** |

**C1. COMPLIANCE SUMMARY**

| | COMPLIES[2] | | |
|---|---|---|---|
| | Time Dependent Valuation (TDV) | | Source Energy Use |
| | Efficiency[1] (kBtu/$ft^2$ - yr) | Total[2] (kBtu/$ft^2$ - yr) | Total[2] (kBtu/$ft^2$ - yr) |
| Standard Design | 221.5 | 221.5 | 41.05 |
| Proposed Design | 163.58 | 163.58 | 13.75 |
| **Compliance Margins** | **57.92** | **57.92** | **27.3** |
| | **Pass** | **Pass** | **Pass** |

[1] *Efficiency measures include improvements like a better building envelope and more efficient equipment*
[2] *Compliance Totals include efficiency, photovoltaics and batteries*
[3] *Building complies when efficiency and total compliance margins are greater than or equal to zero and unmet load hour limits are not exceeded*



| CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD | NRCC-PRF-E |
|---|---|
| **Nonresidential Performance Compliance Method** | **(Page 4 of 17)** |

**C2. TDV ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/$ft^2$ - yr)**

| | COMPLIES[2] | | |
|---|---|---|---|
| **Energy Component** | **Standard Design (TDV)** | **Proposed Design (TDV)** | **Compliance Margin (TDV)[1]** |
| Space Heating | 11.04 | 9.22 | 1.82 |
| Space Cooling | 30.81 | 35.77 | -4.96 |
| Indoor Fans | 71.79 | 76.37 | -4.58 |
| Heat Rejection | 0 | 0 | 0 |
| Pumps & Misc. | 0 | 0 | 0 |
| Domestic Hot Water | 84.86 | 19.22 | 65.64 |
| Indoor Lighting | 23 | 23 | 0 |
| Flexibility | --- | --- | --- |
| **EFFICIENCY COMPLIANCE TOTAL** | **221.5** | **163.58** | **57.92 (26.1%)** |
| Photovoltaics | --- | --- | --- |
| Batteries | --- | --- | --- |
| **TOTAL COMPLIANCE** | **221.5** | **163.58** | **57.92 (26.1%)** |

[1] *Notes: This number in parenthesis following the Compliance Margin in column 4, represents the Percent Better than Standard.*



| CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD | NRCC-PRF-E |
|---|---|
| **Nonresidential Performance Compliance Method** | **(Page 5 of 17)** |

**C3. TDV ENERGY RESULTS FOR NON-REGULATED COMPONENTS[1]**

| Non-Regulated Energy Component | Standard Design (TDV) | Proposed Design (TDV) | Compliance Margin (TDV)[1] |
|---|---|---|---|
| Receptacle | 70.81 | 70.81 | --- |
| Process | --- | --- | --- |
| Other Ltg | 134.74 | 134.74 | --- |
| Process Motors | 55.82 | 36.88 | 18.94 |
| **TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)** | **482.87** | **406.01** | **76.86 (15.9%)** |

[1] *Notes: This table is not used for Energy Code Compliance.*



| CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD | NRCC-PRF-E |
|---|---|
| **Nonresidential Performance Compliance Method** | **(Page 6 of 17)** |

**C4. SOURCE ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual SOURCE Energy Use, kBtu/$ft^2$/yr)**

| | COMPLIES[2] | | |
|---|---|---|---|
| **Energy Component** | **Standard Design (SOURCE)** | **Proposed Design (SOURCE)** | **Compliance Margin (SOURCE)[1]** |
| Space Heating | 1.56 | 1.28 | 0.28 |
| Space Cooling | 1.08 | 1.54 | -0.46 |
| Indoor Fans | 6.06 | 7.34 | -1.28 |
| Heat Rejection | 0 | 0 | 0 |
| Pumps & Misc. | 0 | 0 | 0 |
| Domestic Hot Water | 30.61 | 1.85 | 28.76 |
| Indoor Lighting | 1.74 | 1.74 | 0 |
| Flexibility | --- | --- | --- |
| **EFFICIENCY COMPLIANCE TOTAL** | **41.05** | **13.75** | **27.3 (66.5%)** |
| Photovoltaics | --- | --- | --- |
| Batteries | --- | --- | --- |
| **TOTAL COMPLIANCE** | **41.05** | **13.75** | **27.3 (66.5%)** |

[1] *Notes: This number in parenthesis following the Compliance Margin in column 4, represents the Percent Better than Standard.*



| CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD | NRCC-PRF-E |
|---|---|
| **Nonresidential Performance Compliance Method** | **(Page 7 of 17)** |

**C5. SOURCE ENERGY RESULTS FOR NON-REGULATED COMPONENTS[1]**

| Non-Regulated Energy Component | Standard Design (SOURCE) | Proposed Design (SOURCE) | Compliance Margin (SOURCE)[1] |
|---|---|---|---|
| Receptacle | 5.03 | 5.03 | --- |
| Process | --- | --- | --- |
| Other Ltg | 10.22 | 10.22 | --- |
| Process Motors | 5.22 | 3.45 | 1.77 |
| **TOTAL ( TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)** | **61.52** | **32.45** | **29.07 (47.3%)** |

[1] *Notes: This table is not used for Energy Code Compliance.*

**C6. 'ABOVE CODE' QUALIFICATIONS**

☐ This project is pursuing CalGreen Tier 1 ☐ This project is pursuing CalGreen Tier 2



| CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD | NRCC-PRF-E |
|---|---|
| **Nonresidential Performance Compliance Method** | **(Page 8 of 17)** |

**C7. ENERGY USE SUMMARY**

| Energy Component | Standard Design Site (MWh) | Proposed Design Site (MWh) | Margin (MWh) | Standard Design Site (MBtu) | Proposed Design Site (MBtu) | Margin (MBtu) |
|---|---|---|---|---|---|---|
| Space Heating | 0.1 | 0.1 | 0 | --- | --- | --- |
| Space Cooling | 0.2 | 0.2 | 0 | --- | --- | --- |
| Indoor Fans | 0.4 | 0.5 | -0.1 | --- | --- | --- |
| Heat Rejection | --- | --- | --- | --- | --- | --- |
| Pumps & Misc. | --- | --- | --- | --- | --- | --- |
| Domestic Hot Water | --- | 0.1 | --- | 6.2 | --- | --- |
| Indoor Lighting | 0.2 | 0.2 | 0 | --- | --- | --- |
| Flexibility | --- | --- | --- | --- | --- | --- |
| **EFFICIENCY TOTAL** | **0.9** | **1.1** | **-0.2** | **6.2** | **0** | **6.2** |
| Photovoltaics | --- | --- | --- | --- | --- | --- |
| Batteries | --- | --- | --- | --- | --- | --- |
| **ENERGY USE SUBTOTAL** | **0.9** | **1.1** | **-0.2** | **6.2** | **0** | **6.2** |
| Receptacle | 0.5 | 0.5 | 0 | --- | --- | --- |
| Process | --- | --- | --- | --- | --- | --- |
| Other Ltg | 1 | 1 | 0 | --- | --- | --- |
| Process Motors | 0.4 | 0.2 | 0.2 | --- | --- | --- |
| **ENERGY USE TOTAL** | **2.8** | **2.8** | **0** | **6.2** | **0** | **6.2** |



| CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD | NRCC-PRF-E |
|---|---|
| **Nonresidential Performance Compliance Method** | **(Page 9 of 17)** |

**C8. ENERGY USE INTENSITY (EUI)**

| | Standard Design (kBtu/$ft^2$ / yr) | Proposed Design (kBtu/$ft^2$ / yr) | Margin (kBtu/$ft^2$ / yr) | Margin Percentage |
|---|---|---|---|---|
| GROSS EUI[1] | 18.49 | 11.21 | 7.28 | 39.37 |
| NET EUI[1] | 18.49 | 11.21 | 7.28 | 39.37 |

[1] *Notes: Gross EUI is Energy Use Total (not including PV)/Total Building Area. Net EUI is Energy Use Total (including PV)/Total Building Area.*

**D1. EXCEPTIONAL CONDITIONS**

• The aged solar reflectance and aged thermal emittance must be listed in the Cool Roof Rating Council database of certified products. For projects where initial reflectance is used, the initial reflectance must be listed, and the aged reflectance is calculated by the software program and used in the compliance model.

**F1. REQUIRED PV SYSTEMS**

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DC System Size (kWdc) | Exception[1] | Module Type | Array Type | Power Electronics | CFI | Azimuth (deg) | Tilt Input | Array Angle (deg) | Tilt: (a in 12) | Inverter Eff. (%) | Annual Solar Access (%) |

[1] *See Table D1 for any PV exceptions used.*



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# CENTENNIAL HIGH SCHOOL AQUATICS CENTER

PROJECT ADDRESS:
1820 RIMPAU AVE.
CORONA, CA 92881

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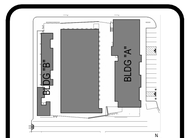
DSA APPL NO.: ##-##### DSA FILE NO.: ##-##




Consultant

REGISTERED PROFESSIONAL ENGINEER REX DAVID WANG No.M36155 Exp.09-30-2024 STATE OF CALIFORNIA

Architect

CLIENT
CNUSD

DATE 2/24/2023
PROJECT NUMBER 220306

REVISIONS

| No. | Description | Date |
|---|---|---|
| | | |

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MECHANICAL TITLE 24

M0.4

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| CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD | NRCC-PRF-E |
|---|---|
| Nonresidential Performance Compliance Method | (Page 10 of 17) |

**F1B. PV BATTERY BUILDING TYPE(S)**

| 01 | 02 | 03 |
|---|---|---|
| Building Occupancy Type[1] (From Table 140.10-A/B and 170.2-U/V) | Conditioned Floor Area (ft²) | Unconditioned Floor Area (ft²) |
| Grocery | 0 | 0 |
| High-Rise Multifamily | 0 | 0 |
| Office, Financial Institutions, Unleased Tenant Space | 185 | 0 |
| Retail | 0 | 0 |
| School | 0 | 667 |
| Warehouse | 0 | 0 |
| Auditorium, Convention Center, Hotel/Motel, Library, Medical Office Building/Clinic, Restaurant, Theater | 0 | 0 |
| None | 0 | 0 |

[1]*Building Occupancy Types are defined in Section 100.1 of the Energy Code*

**G1. ENVELOPE GENERAL INFORMATION (conditioned spaces only)**

| 01 | 02 | 03 | 04 |
|---|---|---|---|
| Opaque Surfaces & Orientation | Total Gross Surface Area (ft²) | Total Fenestration Area (ft²) | Window to Wall Ratio (%) |
| North-Facing[2] | 168 | 0 | 0 |
| East-Facing[3] | 213 | 0 | 0 |
| South-Facing[4] | 80 | 0 | 0 |
| West-Facing[5] | 213 | 0 | 0 |
| **Total** | **674** | **0** | **0** |
| Roof | 185 | 0 | 0 |

*Notes*
[1]*North-Facing is oriented to within 45 degrees of true north, including 45 00'00" east of north (NE), but excluding 45 00'00" west of north (NW);*
[2]*East-Facing is oriented to within 45 degrees of true east, including 45 00'00" south of east (SE), but excluding 45 00'00" north of east (NE);*
[3]*South-Facing is oriented to within 45 degrees of true south, including 45 00'00" west of south (SW), but excluding 45 00'00" east of south (SE);*
[4]*West-Facing is oriented to within 45 degrees of true west, including 45 00'00" north of west (NW), but excluding 45 00'00" south of west (SW),*



| CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD | NRCC-PRF-E |
|---|---|
| Nonresidential Performance Compliance Method | (Page 11 of 17) |

**G2A. ROOFING PRODUCT SUMMARY (NONRESIDENTIAL)**

| 01 | 02 | 03 | 04 | 05 | 06 |
|---|---|---|---|---|---|
| Assembly Name | Roof Pitch | Roof Rise (x in 12) | Aged Solar Reflectance | Thermal Emittance | SRI |
| R-27.5 Above Deck Roof pr17 | LowSlope | N/A | 0.63 | 0.75 | N/A |

**G4. NONRESIDENTIAL AIR BARRIER**

| 01 | 02 |
|---|---|
| Building Story Name | Air Barrier |
| Com-Floor 1 | No air barrier |

**G5. OPAQUE SURFACE ASSEMBLY SUMMARY**

| 01 | 02 | 03 | 04 | 05 | 06 | | 07 | 08 | 09 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|
| Surface Name | Construction Type | Area (ft²) | Framing Type | Cavity R-Value | Continuous R-Value | | Units | Value | Description of Assembly Layers | Status[1] |
| | | | | | Interior | Exterior | | | | |
| 8 CMU Wall + 4 MtlFramerR8 | Exterior Wall | 2,106 | Metal | 13 | N/A | N/A | U-factor | 0.1955 | Concrete - Solid Grout - 115 lb/ft3 - 8 in.<br>Composite-1<br>Gypsum Board - 3/8 in. | N |
| Slab On Grade15 | Underground Floor | 852 | N/A | 0 | N/A | N/A | F-factor | 0.73 | Slab Type =Unheated slab on grade<br>Insulation Orientation =None<br>Insulation R-Value =none | N |
| R-27.5 Above Deck Roof pr17 | Roof | 852 | Metal | 0 | N/A | 27.5 | U-factor | 0.0335 | Built-up roofing - 3/8 in.<br>Plywood - 1/2 in.<br>Extruded Polystyrene - XPS - 5 1/2 in. R27.50<br>Metal Deck - 1/16 in.<br>Air - Metal Wall Framing - 16 or 24 in. OC | N |

[1] *Status: N - New, A - Altered, E - Existing*



| CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD | NRCC-PRF-E |
|---|---|
| Nonresidential Performance Compliance Method | (Page 12 of 17) |

**G6A. OPAQUE DOOR SUMMARY (NONRESIDENTIAL)**

| 01 | 02 | 03 | 04 |
|---|---|---|---|
| Assembly Name | Area (ft²) | Overall U-factor | Status[1] |
| NewDoor13 | 96 | 0.6 | N |

[1] *Status: N - New, A - Altered, E - Existing*

**H1. DRY SYSTEM EQUIPMENT (FURNACES, AIR HANDLING UNITS, HEAT PUMPS, VRF, ECONOMIZERS ETC.)**

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Equipment Name | Equipment Type | Qty | Heating | | | | Cooling | | | | Status[1] |
| | | | Total Heating Output (kBtu/h) | Supp Heat Output (kBtu/h) | Efficiency Unit | Efficiency | Total Cooling Output (kBtu/h) | Efficiency Unit | Efficiency | Economizer Type (if present) | |
| AC-B1 | Single Zone Heat Pump (SZHP) Air System | 1 | 24 | 0 | N/A | NA | 24 | EER2<br>SEER2 | 12<br>15 | No Economizer | N |

[1] *Status: N - New, A - Altered, E - Existing*

**H3. NONRESIDENTIAL / COMMON USE AREA FAN SYSTEMS SUMMARY**

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Name or Item Tag | Qty | Design OA CFM | Supply Fan | | | | Return / Relief Fan | | | | | Status[1] |
| | | | CFM | Power | Power Units | Control | Fan Type | CFM | Power | Power Units | Control | |
| AC-B1 | 1 | 0 | 620 | 0.1 | BHP | Constant Vol | N/A | N/A | N/A | N/A | N/A | N |

[1] *Status: N - New, A - Altered, E - Existing*



| CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD | NRCC-PRF-E |
|---|---|
| Nonresidential Performance Compliance Method | (Page 13 of 17) |

**H5. GENERAL EXHAUST FAN SUMMARY**

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 |
|---|---|---|---|---|---|---|---|
| System ID | Zone Name | Qty | CFM | Power | Power Units | Continuous Operation? | Status[1] |
| Custodian/Restroom s18 | 2-Custodian/Restroom s | 1 | 1300 | 0.05 | BHP | No | N |

[1] *Status: N - New, A - Altered, E - Existing*

**H8. SYSTEM SPECIAL FEATURES**

| 01 | 02 | 03 | 04 |
|---|---|---|---|
| System Name | Equipment Type | Interlocks per 140.4(n)[1] | Other Special Features and Controls |
| DHW1 - SHW | Service Hot Water | N/A | Fixed Temperature Control |

*Notes: This table includes controls related to the performance path only. For projects using the prescriptive path, mandatory and prescriptive controls requirements are documented on the NRCC-MCH-E.*

[1] *Yes = interlocks are provided, No = interlocks are not provided, NA means no operable openings.*

**H9. NONRESIDENTIAL / COMMON USE AREA & HOTEL/MOTEL VENTILATION**

| 01 | 02 | 03 | | 04 | 05 | 06 | 07 |
|---|---|---|---|---|---|---|---|
| Zone Name | Mechanical Ventilation | | | | | Conditioned Area (sf) | DCV or Occupant Sensor Controls, or Both |
| | Ventilation Function | # of People# of People | | Supply OA CFM | Exhaust CFM | | |
| 1-Concessions | General - Unoccupied | 0.93 | | 0 | 0 | 185 | N/A |



| CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD | NRCC-PRF-E |
|---|---|
| Nonresidential Performance Compliance Method | (Page 14 of 17) |

**H11. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY**

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| System ID | System Type | Qty | Rated Capacity (kBtuh) | | Airflow (cfm) | | | Fan | | | VSD |
| | | | Heating | Cooling | Design | Min. | Min. Ratio | Power | Power Units | Cycles | |
| 1-Concessions-Trm | Uncontrolled | 1 | N/A | N/A | 620 | N/A | 0 | N/A | N/A | N/A | ☐ |

**I1. WATER HEATER EQUIPMENT SUMMARY**

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Name | Heater Element Type | Tank Type | Qty | Tank Vol (gal) | Rated Input | Rated Input Unit | Efficiency | Efficiency Unit | Tank Insulation R-value Int/Ext | Standby Loss Fraction | 1st Hr. Rating or Flow Rate (gal) | Heat Pump Type | Tank Location or Ambient Condition |
| AO Smith Del-202 | Electricity | Storage | 1 | 20 | 6 | kW | kW | UEF | N/A | N/A | N/A | N/A | N/A |

**K1. INDOOR CONDITIONED LIGHTING GENERAL INFO**

| 01 | 02 | 03 | | 04 | | 05 | 06 |
|---|---|---|---|---|---|---|---|
| Occupancy Type[1] | Conditioned Floor Area[2] (ft²) | Installed Lighting Power (Watts) | | Lighting Control Credits (Watts) | | Additional (Custom) Allowance | |
| | | | | | | Area Category Footnotes (Watts) | Area Category Footnotes (Watts) |
| All Other Space Types | 185 | 74 | | 0 | | 0 | 0 |
| **Building Totals:** | **185** | **74** | | **0** | | **0** | **0** |

[1]*See Table 140.6-C*
[2]*See NRCC-LTI-E for unconditioned spaces*
[3]*Lighting information for existing spaces modeled is not included in this table*

**K4. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROL**



| CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD | NRCC-PRF-E |
|---|---|
| Nonresidential Performance Compliance Method | (Page 15 of 17) |

**Building Level Controls**

| 01 | 02 |
|---|---|
| Mandatory Demand Response 110.12(c) | Shut-Off Controls 130.1(c) & 160.5(b)4C |
| Required | Required |

**See NRCC-LTI-E for mandatory controls**

**L. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION**

**Selections made by Documentation Author indicate which Certificates of Installation must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online**

| Building Component | Form/Title |
|---|---|
| Envelope | NRCI-ENV-01-E - Must be submitted for all buildings |
| Envelope | NRCI-ENV-E - Envelope (for all buildings) |
| Mechanical | NRCI-MCH-01-E - Must be submitted for all buildings |
| Mechanical | NRCI-MCH-E - For all buildings with Mechanical Systems |
| Plumbing | NRCI-PLB-01-E - Must be submitted for all buildings |
| Plumbing | NRCI-PLB-E - For all buildings with Plumbing Systems |
| Indoor Lighting | NRCI-LTI-01-E - Must be submitted for all buildings |
| Indoor Lighting | NRCI-LTI-E - Indoor Lighting (for all buildings) |

**M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE**

**Selections made by Documentation Author indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP).**

| Building Component | Form/Title |
|---|---|
| Indoor Lighting | NRCA-LTI-02-A - Occupancy Sensors and Automatic Time Switch Controls. |
| Mechanical | NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap |
| Mechanical | NRCA-MCH-03-A - Constant Volume Single Zone HVAC |



| CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD | NRCC-PRF-E |
|---|---|
| Nonresidential Performance Compliance Method | (Page 16 of 17) |

**N. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION**

**Selections made by Documentation Author indicate which Certificates of Verification must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online**

**There are no Certificates of Verification applicable to this project**



| CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD | NRCC-PRF-E |
|---|---|
| Nonresidential Performance Compliance Method | (Page 17 of 17) |

**Documentation Author's Declaration Statement**

**1. I certify that this Certificate of Compliance documentation is accurate and complete.**

| | |
|---|---|
| Documentation Author Name: Faisal Mased | Documentation Author Signature: Faisal Mased |
| Company: Leaf Engineers | Signature Date: 4/25/2023 |
| Address: 8163 Rochester Ave Suite 100 | CEA/HERS Certification Identification (if applicable): |
| City/State/Zip: Rancho Cucamumga, CA 91730 | Phone: |

**Responsible Person's Declaration statement**

**I certify the following under penalty of perjury, under the laws of the State of California:**

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I understand that a registered copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections, and I will take the necessary steps to accomplish this requirement.
6. I understand that a registered copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy, and I will take the necessary steps to accomplish these requirements.

| | |
|---|---|
| Responsible Designer Name: PBK | Responsible Designer Signature: |
| Company: PBK | |
| Address: 8163 Rochester Ave Suite 100 | Date Signed: |
| City/State/Zip: Rancho Cucamonga, CA 91730 | License #: |
| Phone: 909-987-0909 | Title: Scope: |
| Responsible Designer Name: LEAF Egineers | Responsible Designer Signature: Faisal Mased |
| Company: LEAF Engineers | |
| Address: 8163 Rochester Ave Suite 100 | Date Signed: 4/25/2023 |
| City/State/Zip: Rancho Cucamonga, CA 91730 | License #: M33380 |
| Phone: 909-987-0909 | Title: Scope: |



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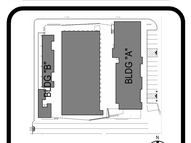
# CENTENNIAL HIGH SCHOOL AQUATICS CENTER

PROJECT ADDRESS:
1820 RIMPAU AVE.
CORONA, CA 92881

100% CONSTRUCTION DOCUMENTS

DSA APPL NO.: ##-##### DSA FILE NO.: ##-##




Consultant

REGISTERED PROFESSIONAL ENGINEER REX DAVID WANG No.M36155 Exp.09-30-2024 MECHANICAL STATE OF CALIFORNIA

Architect

CLIENT
CNUSD

DATE 2/24/2023
PROJECT NUMBER 220306

REVISIONS

| No. | Description | Date |
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MECHANICAL TITLE 24

M0.5

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M2.1 - MECHANICAL FLOOR PLANS - BLDG "A" & BLDG "B"

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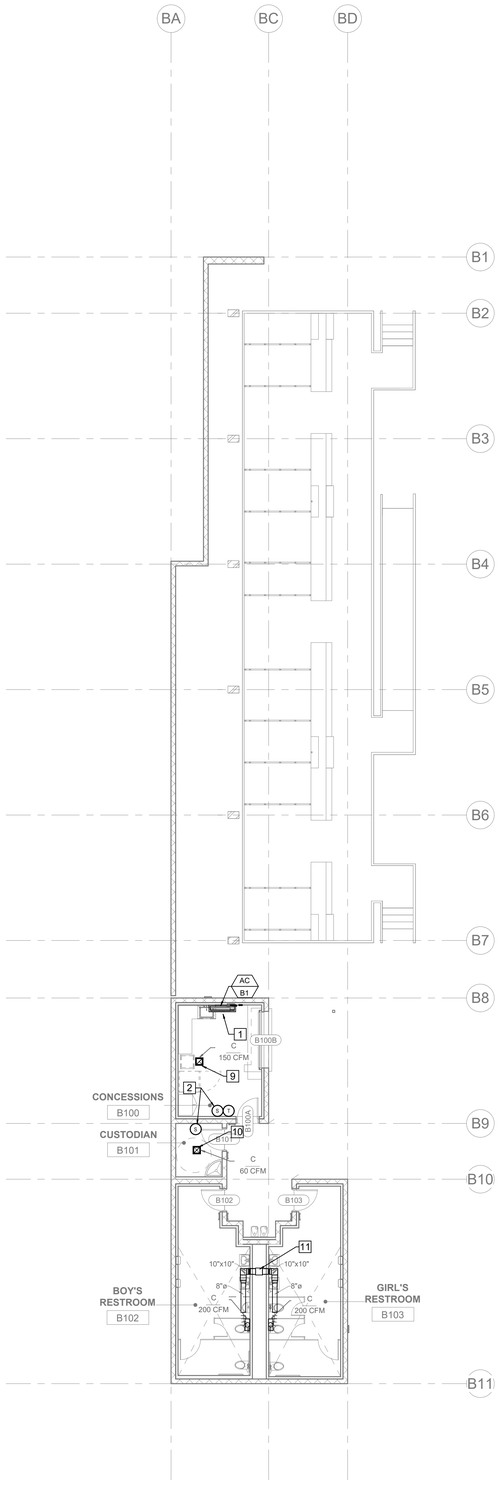
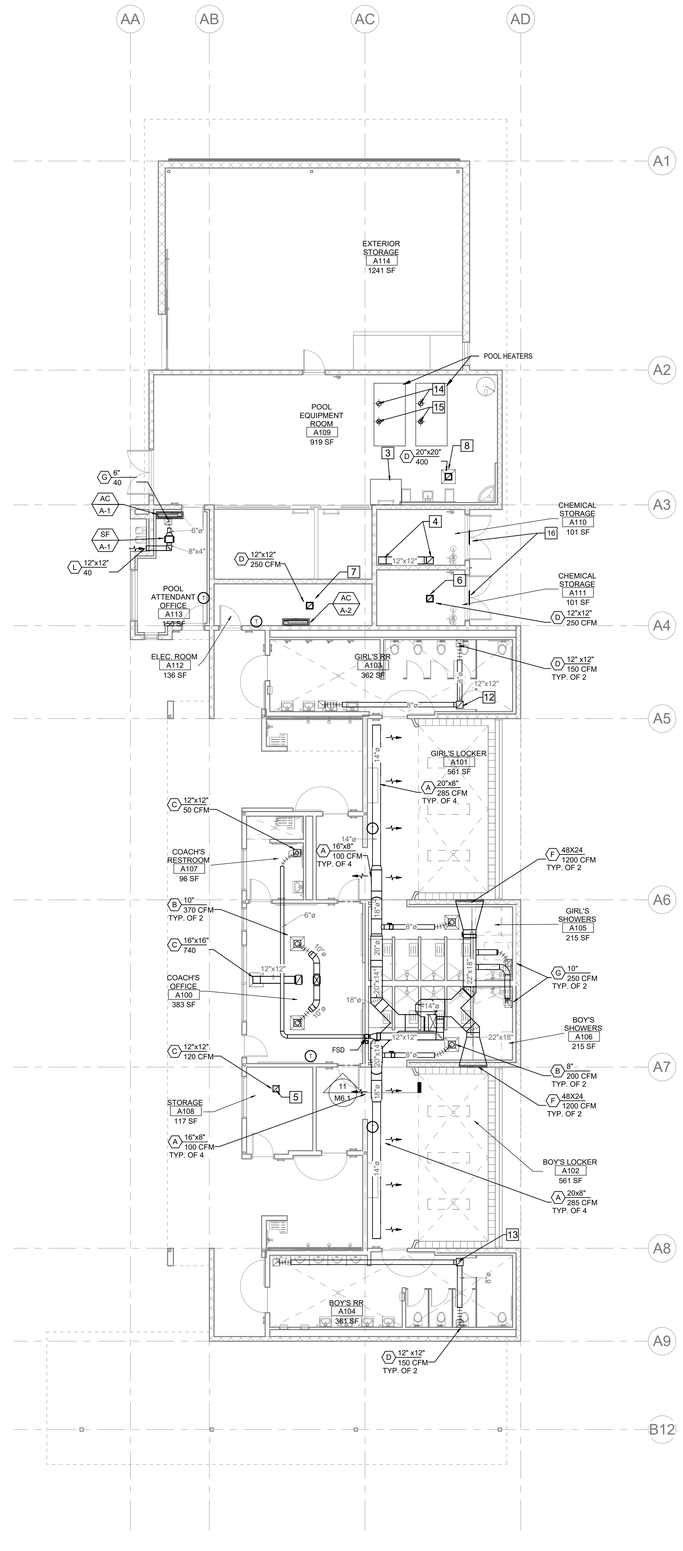



2 OVERALL FLOOR PLAN - BLDG "B"
1/8" = 1'-0"




1 OVERALL FLOOR PLAN - BLDG "A"
1/8" = 1'-0"

## KEY NOTES

1. MOUNT AC-A1, AC-A2 & AC-B1 ON THE WALL 12" BELOW THE CEILING UP TO 8 FT MAX. ABOVE FLOOR. RUN CONDENSATE DRAIN AS SHOWN ON PLUMBING DRAWINGS.
2. PROVIDE MANUAL WALL SWITCH TO OPERATE EXHAUST FAN.
3. MAINTAIN A MINIMUM DISTANCE OF 4'-0" FROM ROOF ACCESS HATCH & LADDER TO MECHANICAL EQUIPMENT, PIPING OR DUCTS.
4. 14" x 14" S.S. EXHAUST DUCT FROM 8" ABOVE CHLORINE RM FLOOR LEVEL TO ROOFTOP FAN EF-A2. REFER TO DETAIL 4 ON M6.2
5. 12" x 12" EXHAUST DUCT FROM HIGH LEVEL TO ROOFTOP EXH. FAN EF-A5.
6. 12" x 12" S.S EXHAUST DUCT UP TO ROOFTOP EXH. FAN EF-A4
7. 12" x 12" EXHAUST DUCT FROM HIGH LEVEL GRILLE TO ROOFTOP EXH. FAN EF-A1
8. 20" x 20" EXHAUST DUCT FROM HIGH LEVEL TO ROOFTOP EXH. FAN EF-A3.
9. 12" x 12" EXHAUST DUCT FROM HIGH LEVEL TO ROOFTOP EXH. FAN EF-B1
10. 12" x 12" EXHAUST DUCT FROM HIGH LEVEL TO ROOFTOP EXH. FAN EF-B2
11. 12" x 12" EXHAUST DUCT FROM HIGH LEVEL TO ROOFTOP EXH. FAN EF-B3
12. 12" x 12" EXHAUST DUCT TO ROOFTOP EXH. FAN EF-A6
13. 12" x 12" EXHAUST DUCT TO ROOFTOP EXH. FAN EF-A7
14. PROVIDE (2) 8" PVC FLUES, FROM POOL HEATERS TO 3'-0" MINIMUM ABOVE THE ROOF PER MANUFACTURERS RECOMMENDATIONS. PROVIDE ROOF TERMINATIONS PER MANUFACTURERS INSTRUCTIONS.
15. PROVIDE (2) 8" PVC COMBUSTION AIR INTAKES, FROM POOL HEATERS TO 3'-0" ABOVE THE ROOF PER MANUFACTURERS RECOMMENDATIONS. PROVIDE ROOF TERMINATIONS PER MANUFACTURERS INSTRUCTIONS.
16. AIR INTAKE LOUVER ABOVE DOOR. REFER TO ARCHITECT DRAWINGS FOR SIZE AND HEIGHT.

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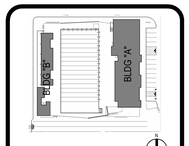


KEY PLAN NORTH: PLAN

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Exp.09-30-2024
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Architect

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CNUSD

| DATE | PROJECT NUMBER |
|---|---|
| 2/24/2023 | 220306 |

REVISIONS

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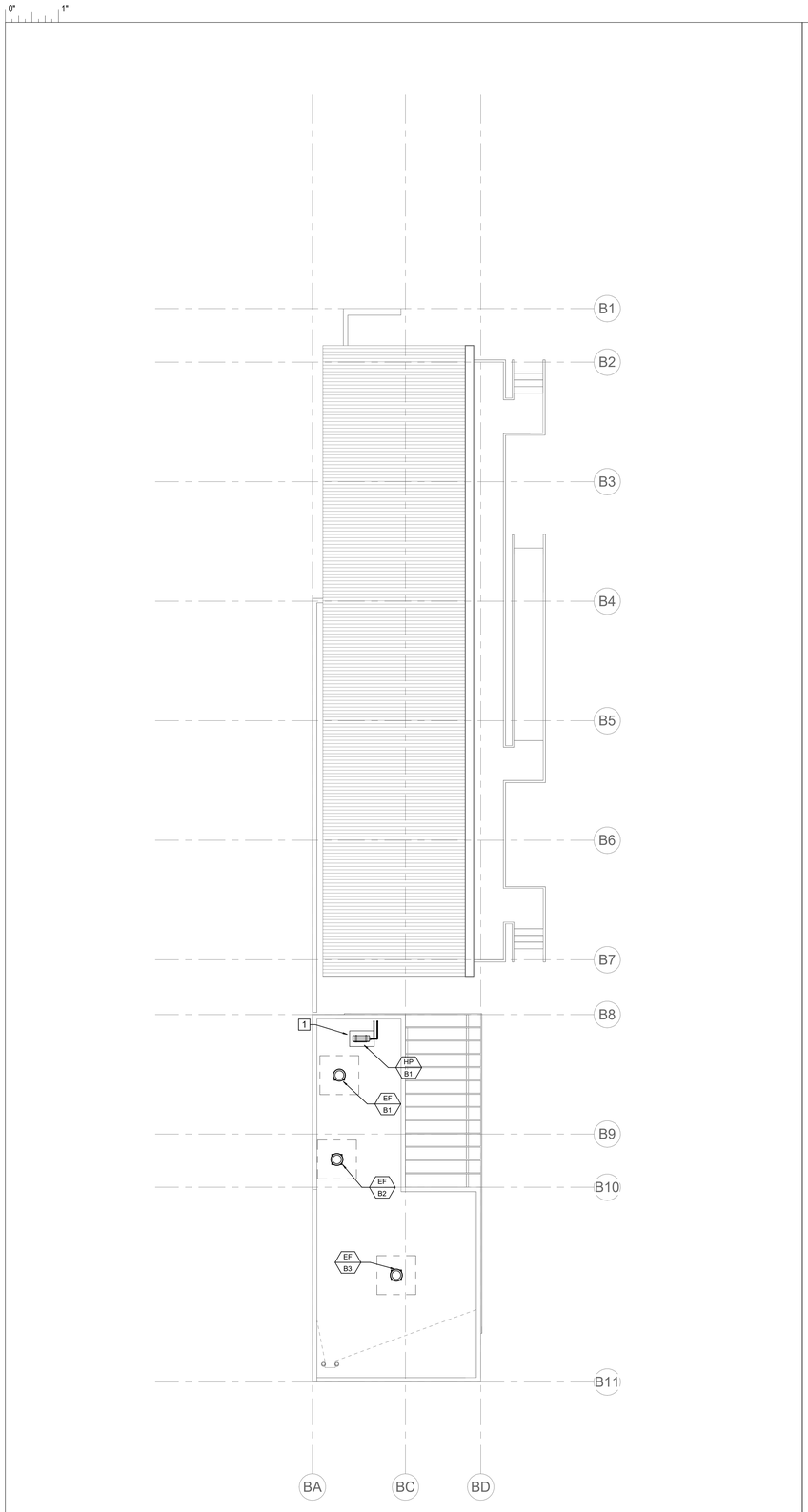
| | | |

100% CONSTRUCTION DOCUMENTS

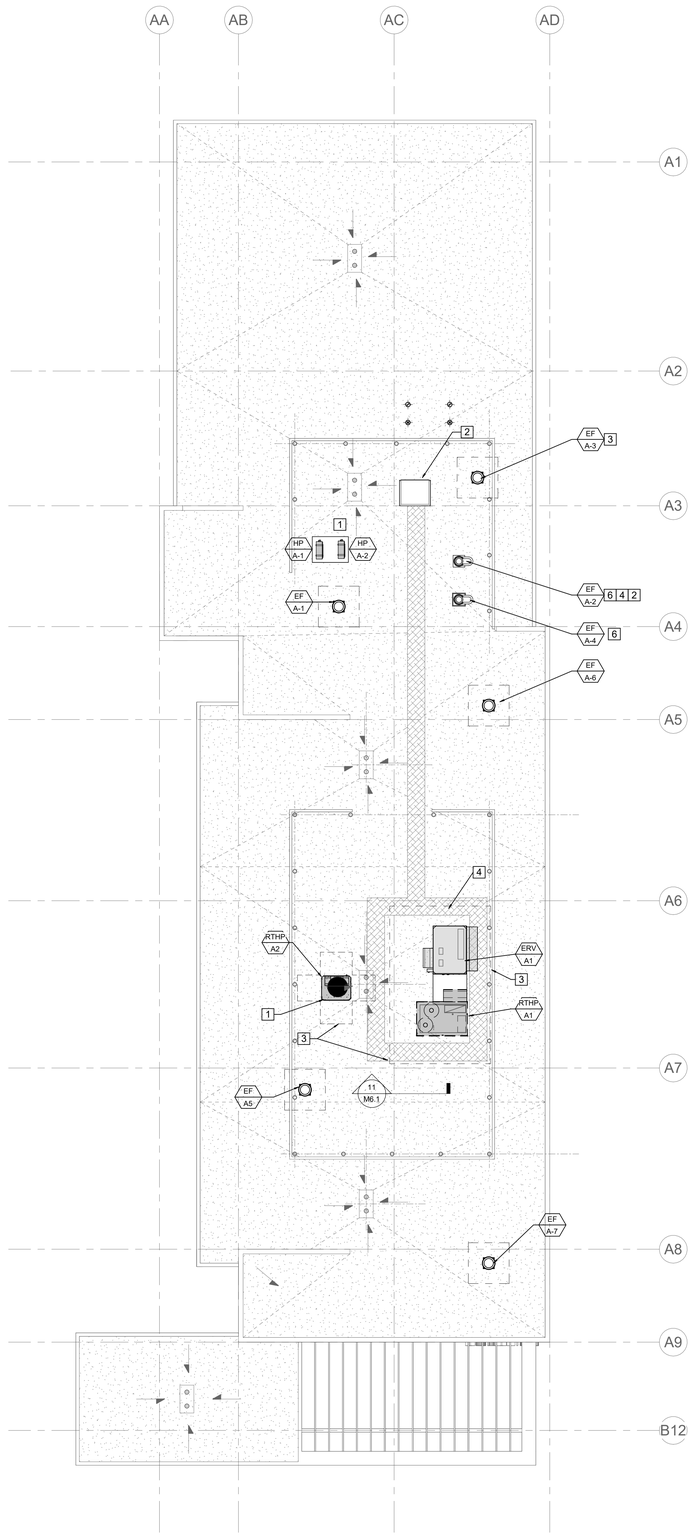
MECHANICAL FLOOR PLANS - BLDG "A" & BLDG "B"

M2.1

M4.1 - MECHANICAL ROOF PLANS - BLDG "A" & BLDG "B"




2 ROOF PLAN - BLDG B
1/8" = 1'-0"




1 ROOF PLAN - BLDG A
1/8" = 1'-0"

## KEY NOTES

1. MOUNT HEAT PUMPS ON 3" DIVERSITEC PLASTIC "ECOPAD" EQUIPMENT PAD. SEE DETAIL 10 ON M6.1
2. ROOF ACCESS HATCH. MAINTAIN 4 FT CLEARANCE FROM ALL MECHANICAL EQUIPMENT.
3. DASHED LINES DENOTE REQUIRED CLEARANCES.
4. REFER TO DETAIL 14 ON M6.1 FOR CDI CURBS DETAIL. COMBO CURB IS FOR MOUNTING OF RTHP-A1 & ERV-A1. CURB WEIGHT 472 LBS.
5. REFER TO DETAIL 15 ON M6.1 FOR MICROMETL CURB. (RTHP-A2)
6. MOUNT FAN ON FACTORY ROOF CURB PER DETAIL 4 ON M6.2. CONNECTED DUCTING SHALL BE STAINLESS STEEL.

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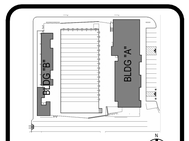


KEY PLAN NORTH PLAN

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Architect

CLIENT
CNUSD

DATE 2/24/2023
PROJECT NUMBER 220306

REVISIONS

| No. | Description | Date |
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MECHANICAL ROOF PLANS - BLDG "A" & BLDG "B"

M4.1

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## PACKAGED AIR CONDITIONING UNITS SCHEDULE

| UNIT | MANUFACTURER & MODEL NO. | TYPE | HSPF | SIZE (TONS) | CFM | ESP (IN. WG) | EER/ IEER | COOLING CAP (MBH) | | EVAP. ENT. AIR TEMP. (°F) | | EVAP. LEAV. AIR TEMP. (°F) | | ENT. COND. TEMP. (°F) | | | HEATING CAPACITIES | | COP | | INDOOR FAN | | | | ELECTRICAL | | | | | | | | | | | | | | | FILTERS TYPE, (QUANTITIES), DIMENSIONS 30% EFF. | RTHP OPTIONS WT. (LBS) | RTHP OPTIONS WT. (LBS) | RTHP OPER. WT. (LBS) | OSA CFM | REMARKS | STRUCTURAL & MECHANICAL ANCHORAGE DETAIL (S) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | TOTAL | SENS. | DB | WB | DB | WB | SUMMER DB | SUMMER WB | WINTER DB | OUTPUT @ 47 F (MBH) | OUTPUT @ 17 F (MBH) | OUTPUT @ 47 F | OUTPUT @ 17 F | NO. | RPM | BHP | DRIVE | COMPRESSOR NO. | COMPRESSOR (RLA) | COMPRESSOR (LRA) | OFM (EA) NO. | OFM (EA) (W) | OFM (EA) (FLA) | IFM (FLA) | V | PHASE | HZ | POWER SUPPLY MCA | FUSE OR HACR BRKR MCOP | DISCONNECT SIZE FLA | DISCONNECT SIZE LRA | | | | | | | | | | | | | | |
| RTHP-A1 | CARRIER 50FCQ08 | VERTICAL DISCHARGE | N/A | 7.5 | 3000 | 1.0 | 11.2/15.0 | 82.3 | 78.3 | 85 | 67 | 59.0 | 56.8 | 104 | 74 | 31 | 83.0 | 48.0 | 3.4 | 2.3 | 1 | 1100 | 3.0 | DIRECT | 2 | 6.1 | 41 | 1 | 325 | 0.8 | 3.5 | 460 | 3 | 60 | 71 | 80 | 68 | 135 | | | | MERV 13 (4) 20"x20"x2" | 472 | 244 | 805 | 100% | 1 2 5 7 8 9 10 11 12 | 14 M6.1 | 10 M6.1 | 9 M6.1 | 1 M6.1 | 10 S0.8 | 4 S0.8 |
| RTHP-A2 | CARRIER 50VR-A24-31LT | VERTICAL DISCHARGE | 8.0 | 2.0 | 740 | 0.8 | 12.0/14.5 | 23.2 | 12.7 | 79.7 | 62.8 | 53.9 | 52.4 | 104 | 74 | 31 | 22.6 | 12.0 | 3.7 | 2.3 | 1 | MED-HIGH | 0.5 | ECM DIRECT | 1 | 11.7 | 58.3 | 1 | - | 0.6 | 4.1 | 208 | 1 | 60 | 64.5/71.5 | 70/80 | 30 | 30 | | | | MERV 13 (4) 20"x20"x2" | 57 | 150 | 347 | 60 | 1 2 3 5 7 8 10 12 13 | 15 M6.1 | 10 M6.1 | 10 M5.1 | 10 S0.8 | 4 S0.8 | |

NOTES:
1. PROVIDE ANTI-RECYCLE TIMER, CRANKCASE HEATER, LOW AMBIENT KIT AND HIGH CAPACITY FILTER RACK.
2. PROVIDE LEVELED HOUSEKEEPING PAD WITH VIBRATION ISOLATORS.
3. BYPASS UNIT ANTI-RECYCLE TIMER WHEN ANTI-RECYCLE FUNCTION IS INCLUDED IN THE THERMOSTAT.
4. OVERALL SMOKE DETECTION SYSTEM PROVIDED BY ELECTRICAL FOR ALL UNITS TO SHUT-OFF UPON DETECTION OF SMOKE AND SIGNAL THE FIRE ALARM SYSTEM, INSTALL IN STRICT ACCORDANCE WITH THE 2022 CALIFORNIA MECHANICAL CODE, SECTION 608. REFER TO ELECTRICAL PLANS AND MECHANICAL TO CONNECT TO ELECTRICAL RELAY. PRIOR TO MECHANICAL PERMIT FINAL, A SMOKE DETECTOR SYSTEM SHUT-OFF TEST WILL BE REQUIRED
5. PROVIDE FACTORY MOUNTED NON-FUSED DISCONNECT SWITCH.
6. PROVIDE FACTORY MOUNTED, NON-POWERED CONVENIENT OUTLET.
7. PROVIDE FACTORY CONDENSER COIL GUARDS.
8. PROVIDE T-24 COMPLIANT WIFI PROGRAMMABLE THERMOSTAT, VENSTAR T2900SCH WITH C02 CONTROL AND CONNECT TO EMS.
9. HORIZONTAL & VERTICAL DISCHARGE DUCTS CONNECTIONS TO UNIT SHALL BE PROVIDED WITH DUCT FLEX CONNECTIONS.
10. ALL AC UNITS SHALL HAVE R-410A REFRIGERANT.
11. PROVIDE A FACTORY "CDI CURBS" TITLEFILE NAME 3-9990-4009 ROOF COMBINATION CURB (RTHP-A1 AND ERV-A1), 473 LBS.
12. OPERATING WEIGHT SHOWN DOES NOT INCLUDE WEIGHT OF VIBRATION ISOLATION ROOF CURB.
13. PROVIDE ECONOMIZER.

## FAN SCHEDULE

| UNIT | MANUFACTURER & MODEL NO. | SERVICE | TYPE | CFM | SP IN W.G. | FAN RPM | MOTOR HP/ BHP | MOTOR FLA | MOTOR VOLT | MOTOR PH | MOTOR HZ | SONES SPHERICAL | OPER WT. (LBS) | REMARKS | STRUCTURAL ANCHORAGE DETAIL (S) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EF A-1 | GREENHECK G-090-VG | ELECTRICAL RM A112 | ROOF EXHAUST FAN | 300 | 0.35 | 1211 | 0.10/0.04 | 1.5 | 120 | 1 | 60 | - | 29 | 1, 2, 3, 4, 5, 10 | 2 M6.1 | 2 S0.8 |
| EF A-2 | PLASTEC VENTILATION JET20-4/1/60 J20XT4P033 | CHLORINE STORAGE EXHAUST A110 | POLYPROPYLENE BLOWER - EXPLOSION PROOF | 350 | 0.70 | 1725 | 0.33/- | 6.6 | 208 | 3 | 60 | - | 50 | 1, 2, 3, 4, 5, 8, 9 | 2 M6.1 | 2 S0.8 |
| EF A-3 | GREENHECK CUE-090-G | POOL EQUIPMENT RM A109 | ROOF EXHAUST FAN | 400 | 0.35 | 1300 | 0.04/0.05 | - | 120 | 1 | 60 | - | 31 | 1, 2, 3, 4, 5, 8, 9, 10 | 2 M6.1 | 2 S0.8 |
| EF A-4 | PLASTEC VENTILATION JET20-4/1/60 J20XT4P033 | CHEMICAL STORAGE EXHAUST A111 | POLYPROPYLENE BLOWER - EXPLOSION PROOF | 350 | 0.70 | 1725 | 0.33/- | 6.6 | 208 | 3 | 60 | - | 50 | 1, 2, 3, 4, 5, 8, 9 | 2 M6.1 | 2 S0.8 |
| EF A-5 | GREENHECK CUE-070-VG | STORAGE RM. A108 | ROOF EXHAUST FAN | 120 | 0.35 | 1463 | 0.07/0.02 | 1.3 | 120 | 1 | 60 | - | 22 | 1, 2, 3, 4, 5, 6, 7 | 2 M6.1 | 2 S0.8 |
| EF A-6 | GREENHECK G-080-VG | GIRLS RR A104 | ROOF EXHAUST FAN | 300 | 0.50 | 1678 | 0.10/0.07 | 1.5 | 120 | 1 | 60 | - | 28 | 1, 2, 3, 4, 5, 6, 7 | 2 M6.1 | 2 S0.8 |
| EF A-7 | GREENHECK G-080-VG | BOYS RR A103 | ROOF EXHAUST FAN | 300 | 0.50 | 1678 | 0.10/0.07 | 1.5 | 120 | 1 | 60 | - | 28 | 1, 2, 3, 4, 5, 6, 7 | 2 M6.1 | 2 S0.8 |
| EF B-1 | GREENHECK CUE-070-D | CONCESSION B100 | ROOF EXHAUST FAN | 150 | 0.35 | 1550 | 0.03/0.02 | 0 | 120 | 1 | 60 | - | 26 | 1, 2, 3, 4, 5, 6, 7 | 2 M6.1 | 2 S0.8 |
| EF B-2 | GREENHECK G-060-VG | CUSTODIAN B101 | ROOF EXHAUST FAN | 70 | 0.35 | 1595 | 0.07/0.02 | 1.3 | 120 | 1 | 60 | - | 19 | 1, 2, 3, 4, 5, 6, 7 | 2 M6.1 | 2 S0.8 |
| EF B-3 | GREENHECK CUE-090-G | RESTROOMS B102 & B103 | ROOF EXHAUST FAN | 400 | 0.35 | 1300 | 0.04/0.05 | 0 | 120 | 1 | 60 | - | 31 | 1, 2, 3, 4, 5, 6, 7 | 2 M6.1 | 2 S0.8 |
| SF A-1 | GREENHECK CSP-A290 | POOL ATTENDENT A113 | INLINE CABINET FAN | 40 | 0.50 | 1050 | - | 0.8 | 120 | 1 | 60 | 4.5 | 23 | 1, 2, 3, 4, 5, 6, 7 | 2 M6.1 | 2 S0.8 |

NOTES:
1. PROVIDE FACTORY ROOF CURB. SLOPE TO MATCH EXISTING ROOF SLOPE, AS REQUIRED.
2. SOLID STATE SPEED CONTROL
3. DISCONNECT SWITCH, FACTORY MOUNTED.
4. BIRDSCREEN
5. BACKDRAFT DAMPER, GRAVITY OPERATED
6. CONNECT TO EMS. REFER TO CONTROL SEQUENCES.
7. INTERLOCK FAN WITH A/C UNIT PER CONTROL SEQUENCES.
8. FAN TO RUN 24/7 WITH AN ALARM IF THE FANS QUITS RUNNING. ALARM SHALL BE CONNECTED TO THE EMCS.
9. SWITCHES FOR THE CONTROL OF VENTILATION SHALL BE LOCATED IMMEDIATELY OUTSIDE THE DOOR OF THE ROOM.
10. CONTROLLED BY COOLING THERMOSTAT.
11. MANUAL WALL SWITCH.

## AIR DISTRIBUTION SCHEDULE

| SYMBOL | TYPE | MOUNTING TYPE | MAKE & MODEL | DESCRIPTION |
|---|---|---|---|---|
| A | DUCT MOUNTED SUPPLY | SPIRAL DUCT MOUNT | PRICE MODEL SDG | SPIRAL DUCT SUPPLY GRILLE. MOUNTED DIRECTLY ON ROUND OR SPIRAL DUCTS, AT 30 DEGREES FROM HORIZONTAL. DOUBLE DEFLECTION WITH FRONT BLADES HORIZONTAL TO THE FLOOR, C/W AIR SCOOP FOR BALANCING. |
| B | CEILING SUPPLY DIFFUSER | SURFACE MOUNT | PRICE MODEL SPD | SQUARE PLAQUE DIFFUSER WITH FRAME FOR SURFACE MOUNTING IN HARD CEILING. 24" x 24" FACE SIZE, RADIAL OPPOSED BLADE DAMPERS. |
| C | WALL EXHAUST OR RETURN GRILLE | SURFACE MOUNT | PRICE MODEL 535L | LOUVERED INLET GRILL WITH FIXED BLADES AT 45 DEGREES, 1/2" BLADE SPACING, RAPID MOUNT FRAME MODEL TRIM FOR SURFACE MOUNTING, FRONT BLADES PARALLEL TO FLOOR IN VERTICAL APPLICATIONS. |
| D | CEILING RETURN OR EXHAUST GRILLE | SURFACE MOUNT | PRICE MODEL 535L | LOUVERED INLET GRILL WITH FIXED BLADES AT 45 DEGREES, 1/2" BLADE SPACING, RAPID MOUNT FRAME MODEL TRIM FOR SURFACE MOUNTING, FRONT BLADES PARALLEL TO FLOOR IN VERTICAL APPLICATIONS. |
| E | CEILING RETURN OR EXHAUST GRILLE | T-BAR MOUNT | PRICE MODEL 535L | LOUVERED RETURN GRILL WITH FIXED BLADES AT 45 DEGREES, 1/2" BLADE SPACING, RAPID MOUNT FRAME MODEL TRIM FOR T-BAR MOUNTING. (24" x 6", 24" x 8", 24" x 10", 24" x 12", 24" x 14", 24" x 16" FACE SIZES) |
| F | WALL EXHAUST OR RETURN | SURFACE MOUNT | PRICE MODEL CL-600 | ALUMINUM RETURN/EXHAUST GRILL, 45 DEGREE BLADES., FRONT BLADES PARALLEL TO FLOOR IN VERTICAL APPLICATIONS. |
| G | CEILING SUPPLY DIFFUSER | SURFACE MOUNT | PRICE MODEL SCD | SQUARE CEILING DIFFUSER, 12"X12" FACE SIZE SURFACE MOUNT |

NOTES:
1. REFER TO THE FLOOR PLANS FOR NECK SIZE, CFM, AIR DIFFUSION PATTERN AND FIRE/DAMPER, IF REQUIRED.
2. PROVIDE RADIAL OPPOSED BLADE DAMPERS FOR ALL CEILING SUPPLY DIFFUSERS.
3. ARCHITECT TO SELECT COLOR ON SUBMITTALS.

PBK

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Rancho Cucamonga
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leafengineers.com

**CENTENNIAL HIGH SCHOOL AQUATICS CENTER**

PROJECT ADDRESS:
1620 RIMPAU AVE.
CORONA, CA 92881

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DSA APPL NO.: ##-##### DSA FILE NO.: ##-##



KEY PLAN

NORTH: PLAN

Consultant

REGISTERED PROFESSIONAL ENGINEER RICK DAVID WANG No.M36155 Exp.09-30-2024 STATE OF CALIFORNIA

Architect

CLIENT
CNUSD

| DATE | PROJECT NUMBER |
|---|---|
| 2/24/2023 | 220306 |

REVISIONS

| No. | Description | Date |
|---|---|---|
| | | |

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**MECHANICAL SCHEDULES**

**M5.1**

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5/5/2023 11:21:47 AM

## INDOOR WALL MOUNTED FAN COIL UNIT SCHEDULE

| UNIT NO. | MANUFACTURER AND MODEL NO. | CAPACITY (MBH) | | SUPPLY FAN | | | ELECTRICAL | | | OPER. WT. (LBS.) | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | COOLING MBH | HEATING MBH | CFM (4 SPEEDS) | OPERATING CFM | E.S.P. | VOLTAGE | FLA | UNIT MCA | | |
| AC A1 | CARRIER 40MAHBQ12XA3 | 12.0 | 12.0 | 210 / 300 / 360 / 380 | 360 | NA | 208-230V / 1Ø / 60HZ | NA | 0.2 | 20 | 1, 2, 3, 4, 5 |
| AC A2 | CARRIER 40MHBQ30XA3 | 30.0 | 30.0 | 520 / 620 / 780 / 870 | 620 | NA | 208-230V / 1Ø / 60HZ | NA | 0.4 | 40 | 1, 2, 3, 4, 5 |
| AC B1 | CARRIER 40MAQB24BA3 | 24.0 | 29.0 | 520 / 620 / 780 / 870 | 620 | NA | 208-230V / 1Ø / 60HZ | NA | 0.4 | 40 | 1, 2, 3, 4, 5 |

NOTES:
1. PROVIDE WITH FACTORY FURNISHED & INSTALLED CONDENSATE DRAIN LIFT PUMP (CONDENSATE PUMP SHALL BE POWERED THRU INDOOR FAN COIL UNIT).
2. SIZE REFRIGERANT LINES PER MANUFACTURERS RECOMMENDATIONS.
3. CONNECT TO EMS FOR CONTROLS.
4. FAN COIL UNIT IS POWERED THRU OUTDOOR UNIT.
5. WALL MOUNTED DUCTLESS FAN COIL UNIT.

## OUTDOOR HEAT PUMP SCHEDULE

| UNIT NO. | MANUFACTURER AND MODEL NO. | COOLING CAP. (MBH) | | AMB.°F | SEER E.E.R. | ELECTRICAL | | | | | | | OPER WT. (LBS) | REMARKS | STRUCTURAL ANCHORAGE DETAIL (S) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | COOLING | HEATING | | | COMPRESSOR | | OUTDOOR FAN | | MCA | MOCP | VOLTAGE | | | |
| | | | | | | NO. OF | RLA | NO. OF | FLA | | | | | | |
| HP A1 | CARRIER 38MARBQ12AA3 | 12.0 | 12.0 | 90.0 | 19.5 / 12.5 | 1 | 5.65 | 1 | - | 15 | 15.0 | 208V / 1Ø / 60HZ | 80 | 1, 2, 3, 4, 5, 6 | 2 M6.2 / 1 S0.8 |
| HP A2 | CARRIER 38MARBQ30AA3 | 30.0 | 30 | 90.0 | 20.0/11.5 | 1 | 5.65 | 1 | - | 25 | 30 | 208V / 1Ø / 60HZ | 150 | 1, 2, 3, 4, 5, 6 | 2 M6.2 / 1 S0.8 |
| HP B1 | CARRIER 38MARBQ24AA3 | 24.0 | 29 | 90.0 | 21.5 / 13.0 | 1 | 5.65 | 1 | - | 23 | 35 | 208V / 1Ø / 60HZ | 140 | 1, 2, 3, 4, 5, 6 | 2 M6.2 / 1 S0.8 |

NOTES:
1. PROVIDE CRANKCASE HEATER, HIGH & LOW PRESSURE SWITCHES.
2. PROVIDE LOW AMBIENT KIT.
3. PROVIDE 3/4" EXPAND METAL CONDENSING COIL GUARD.
4. PROVIDE MINIMUM CLEARANCE AROUND EACH UNIT PER THE MANUFACTURER'S RECOMMENDATIONS.
5. SIZE REFRIGERANT LINES PER MANUFACTURERS RECOMMENDATIONS. PROVIDE LONG LINE KIT IF REQUIRED.
6. PROVIDE HAIL-GUARD.

## ENERGY RECOVERY VENTILATOR (ERV) UNIT SCHEDULE

| UNIT | MANUFACTURER & MODEL NO. | CABINET CONFIGURATION | SERVICE | E.S.P. (IN. W.C.) | AIR FLOW | | | | OSA DESIGN LOADS (MBH) | | | | RECOVERED LOADS (MBH) | | SUMMER/WINTER MEASURED EFFECTIVENESS (%) | ELECTRICAL | | | | | | | | ERV OPER. WT. (LBS) | COMBO CURB FOR ERV & RTHP OPER. WT. (LBS) | REMARKS | STRUCTURAL ANCHORAGE DETAIL (S) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | SUPPLY CFM | EXHAUST CFM | MIN. EXHAUST CFM | MIN. OSA CFM | SUMMER | | WINTER | | SUMMER | WINTER | | V | PHASE | HZ | SUPPLY FAN HP | EXHAUST FAN HP | FLA | MCA | MOCP | | | | |
| | | | | | | | | | TOTAL | SENS. | TOTAL | SENS. | | | | | | | | | | | | | | | |
| ERV 1 | RENEWAIRE ERV HE-4KJRTV-D34WW--DANTF-WL | DOWN DISCHARGE (HOODS) | LOCKER, SHOWERS, RRs, COACHES RMS | 1.2 FA 0.5 EA | 3000 | 3030 | 3030 | 3000 | 57.7 | 56.7 | 96.0 | 76.09 | 57.7 | 96.0 | 65.6 % / 62.0 % | 460 | 3 | 60 | 3.0 | 3.0 | 4.2 4.2 | 9.5 | 15.0 | 1,564 | 473 | 1, 2, 3. 4. 5. 6. 7. 8. 9 | 1 S0.8 / 4 S0.8 |

NOTES:
1. SCHEDULED LOADS INCLUDE FAN AND MOTOR HEAT.
2. PROVIDE SUPPLY AIR AND EXHAUST AIR FANS WITH ECM MOTOR.
3. PROVIDE UNIT WITH NO FROST CONTROL.
4. PROVIDE FACTORY MOUNTED NON-FUSED DISCONNECT SWITCH.
5. ERV-A1 SHALL BE INTERLOCKED WITH RTHP-A1.
6. PROVIDE UNIT WITH A TWO POSITION OSA DAMPER.
7. PROVIDE UNIT WITH A TWO POSITION EA DAMPER.
8. UNIT SHALL BE POWERED SEPARATELY WITH ITS OWN POWER SUPPLY.
9. MERV 13 FILTERS ON OA & RA.

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CENTENNIAL HIGH SCHOOL
AQUATICS CENTER

PROJECT ADDRESS:
1820 RIMPAU AVE.
CORONA, CA 92881

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DSA APPL NO.: ##-##### DSA FILE NO.: ##-##

KEY PLAN
NORTH PLAN

Consultant

REGISTERED PROFESSIONAL ENGINEER
REX DAVID WARD
No.M36155
Exp.09-30-2024
CIVIL
STATE OF CALIFORNIA

Architect

CLIENT
CNUSD

| DATE | PROJECT NUMBER |
|---|---|
| 2/24/2023 | 220306 |

REVISIONS

| No. | Description | Date |
|---|---|---|

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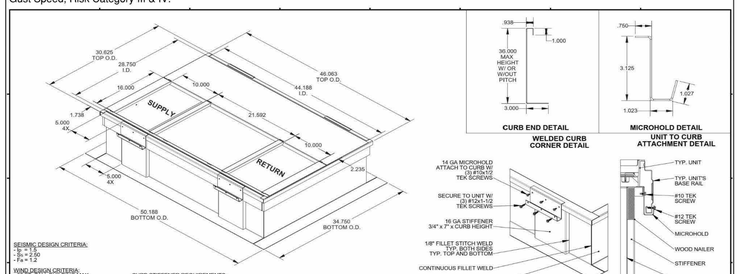
MECHANICAL SCHEDULES

M5.2

0" 1"

**MicroMetl** | Date: | Weight: 57lbs (US) 25.86kg (Metric) | Part Number: CRBW-SPPSMHA-114H | RTU: | Submitted to: | Approved by: | Notes:

Welded Structurally Calculated Curb - 11 Inches Tall Insulated Full Perimeter Welded Structurally Calculated Curb Curb, California State Standard, Standard Seismic Criteria, "Structurally" Stamped By A Professional Engineer, Without Pitch, Insulated Deck Pan If Applicable, Includes Wood Nailer & Hold Down Brackets. Meets Seismic Requirements for 2022 CBC & 2021 IBC. Wind Design Criteria: 60 Foot Tall Building Maimum, Exposure C, 155 MPH - 3 Second Gust Speed, Risk Category III & IV.










**MicroMetl Corporation**

| | |
|---|---|
| CRBW-SPPSMHA-06 Series | 06" TALL - 49 LBS. |
| CRBW-SPPSMHA-11 Series | 11" TALL - 57 LBS. |
| CRBW-SPPSMHA-14 Series | 14" TALL - 64 LBS. |
| CRBW-SPPSMHA-24 Series | 24" TALL - 101 LBS. |
| CRBW-SPPSMHA-36 Series | 36" TALL - 138 LBS. |

STRUCTURALLY CALCULATED WELDED CURB
MAX UNIT WEIGHT 645 lbs.

**ANCHORAGE DETAILS TO ROOF:** (INSTALLER TO VERIFY ANCHORAGE CALCULATIONS USING THE SEISMIC DESIGN CRITERIA SHOWN ABOVE AND THE LOCAL BUILDING CODE THAT THE UPLIFT TO CALCULATE THE ANCHORAGE USING SITE SPECIFIC

Indianapolis, IN : (800) 682-4822
Sparks, NV: (800) 884-4682
Longview, TX: (903) 248-4800

TYPICAL PLAN VIEW — 4 EQ. SPACES; I.D.; O.D.; 4 SPACES @ CORNER ANCHORS

STEEL ATTACHMENT: (USED ON STEEL BEAMS) USE ASST CO* DIA. BOLTS, WASHERS CENTERED ON FLANGE; 4" x 4" x 6" CURB; BEAM

WOOD ATTACHMENT: (USED ON WOOD BEAMS) USE 1/4" x 3" SIMPSON SDS SCREW, EVENLY SPACED ON CURB FLANGE; 4" x 3"; 6" x 3"; CURB; BEAM; WOOD OR METAL FILLER

CONCRETE ATTACHMENT: (USED ON CONCRETE) USE 3/8" DIA. x 4" MINIMUM EMBEDMENT (4" MINIMUM THICKNESS) WITH 1-3/4" MINIMUM EDGE DISTANCE (3.25" EMBEDDED) USE 1/2" SIMPSON TITEN HD SCREW, EVENLY SPACED IN FLANGE, 8" MIN. SPACING; 4" x 3"; 6" x 3"; CURB; SLAB; 1/8" - 2 1/2"; 4"

| CURB HEIGHT | GTY OF ANCHORS: EA. LONG SIDE | EA. SHORT SIDE | EA. CORNER | TOTL |
|---|---|---|---|---|
| UP TO 14" | 1 | 1 | 2 | 12 |
| UP TO 24" | 1 | 1 | 2 | 12 |
| UP TO 36" | 1 | 1 | 2 | 12 |

WELD DETAIL: (USED ON ALL TYP FILLET WELDS SHOWN ON DETAILS TO BE USED IN PLACE OF EACH BOLT SHOWN ON DETAIL) THE STEEL ATTACHMENT EQUALLY SPACED

| CURB HEIGHT | GTY OF ANCHORS: EA. LONG SIDE | EA. SHORT SIDE | EA. CORNER | TOTL |
|---|---|---|---|---|
| UP TO 14" | 4 | 2 | 4 | 28 |
| UP TO 24" | 5 | 2 | 4 | 30 |
| UP TO 36" | 6 | 2 | 6 | 40 |

| CURB HEIGHT | GTY OF ANCHORS: EA. LONG SIDE | EA. SHORT SIDE | EA. CORNER | TOTL |
|---|---|---|---|---|
| UP TO 14" | 1 | 1 | 2 | 12 |
| UP TO 24" | 1 | 1 | 2 | 12 |
| UP TO 36" | 1 | 1 | 2 | 12 |

NOTE: ALL ATTACHMENT DETAILS SHOWN ARE FOR REFERENCE ONLY. INSTALLER TO VERIFY ANCHORAGE CALCULATIONS USING THE SEISMIC DESIGN CRITERIA SHOWN ABOVE AND THE LOCAL BUILDING CODE THAT THE UPLIFT TO CALCULATE THE ANCHORAGE USING SITE SPECIFIC

STATE OF CALIFORNIA — REGISTERED PROFESSIONAL ENGINEER — No. 2022 — Exp 09-30-2024 — STRUCTURAL

8/22/22

RJG# 20220939

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Master Revision 0001A
Page Revision 0001A

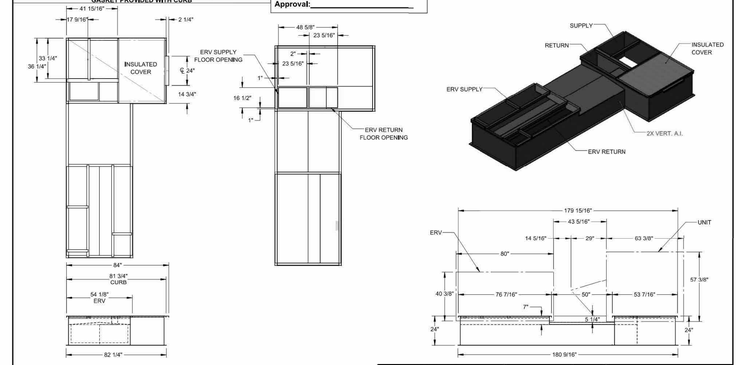
Indianapolis_3035 N. Shadeland Ave., Indianapolis, IN 46226_800.MMC.HVAC •• Sparks_905 Southern Way, Sparks, NV 89431_800.884.4MMC •• Longview_201 Kodak Blvd., Longview, TX 75602_903.248.4800

NOTES:
MATERIAL: 18ga. GAL STEEL
INSULATED PANELS (WHERE REQUIRED):
1" R-VALUE
SOLID FLOOR IN ERV/CDI COMBO UNIT UNDERNEATH W/ ERV OPENINGS
NO FLOOR IN S/A DUCT BRACES ONLY
1" - 1-1/2 LB DENSITY INSULATION (R-VALUE 3.85)
GASKET PROVIDED WITH CURB

DIMENSIONED AND TOLERENCED PER ANSI Y14.5M-1982

Attn:
Tag:
Approval:

| REV. | ECO# | DESCRIPTION | DATE | APPROVED |
|---|---|---|---|---|
| 1 | | INITIAL DRAWING | 3/9/23 | SRP |




CURB SHOWN IS CDI STANDARD CONFIGURATION CDI RESERVES THE RIGHT TO CHANGE LAYOUT WITHOUT NOTIFICATION. IF CURB IS NEEDED IN A DIFFERENT CONFIGURATION CDI MUST BE NOTIFIED PRIOR TO PLACING AN ORDER.

S:\CURBS_CURB_ADAPTERS\3-XXXX-XXXX_ERV_COMBOS\ERV COMBO CURBS\3-9990-4009\.

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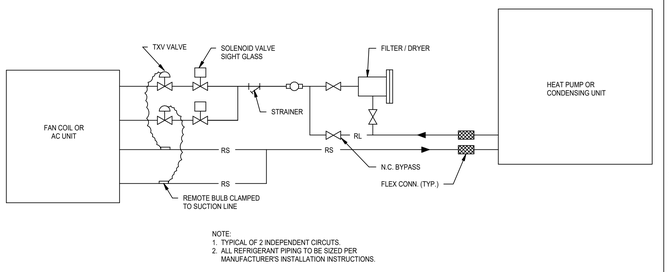
| APPROVALS | DATE |
|---|---|
| DRAWN: spickar | 3/9/2023 |
| ENGINEER: | |
| DIMENSIONS ARE AS FOLLOWS: 1 IN = [25.40 mm] | |

CDI — Contact us @ www.cdicurbs.com or 1-888-234-7001

DRAWING NUMBER: 3-9990-4009
APPROXIMATE CURB WEIGHT (LBS.): 472.68
SCALE: 1:38 SHEET: 1 OF 2
REV: 1

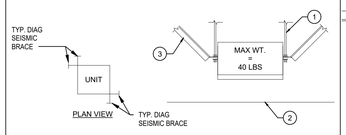
**15** ROOFTOP HEAT PUMP CURB DETAIL - RTHP-A2
6" = 1'-0"



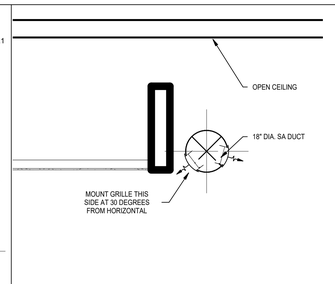

NOTE:
1. TYPICAL OF 2 INDEPENDENT CIRCUITS.
2. ALL REFRIGERANT PIPING TO BE SIZED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

**13** REFRIGERANT PIPING SCHEMATIC DETAIL.
NOT TO SCALE

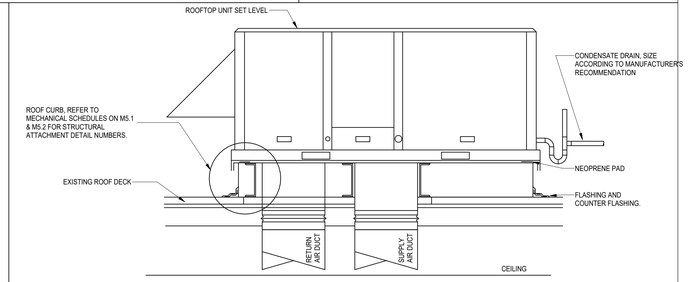
NOTES
1. 3/8"Ø THREADED ROD, (1) EACH CORNER. REFER TO SCHEDULES ON M6.1 M6.2 FOR STRUCTURAL ATTACHMENT DETAIL NUMBERS. DRAWINGS FOR ATTACHMENT TO STRUCTURE.
2. CEILING SUSPENDED EF. SEE MECH. SCHEDULE FOR MAKE & MODEL.
3. 2x2x1/8 DIAG. BRACE. (TYPICAL OF 4) ONE IN EA. DIRECTION.



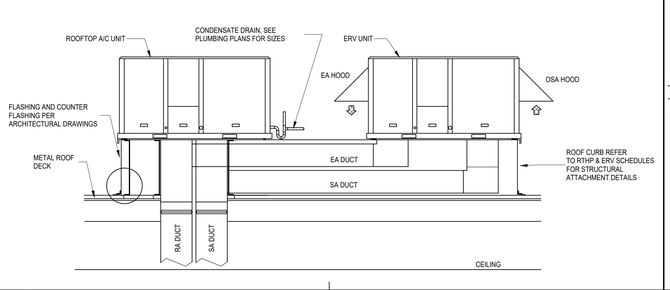

**12** SUSPENDED FAN DETAIL.
NOT TO SCALE



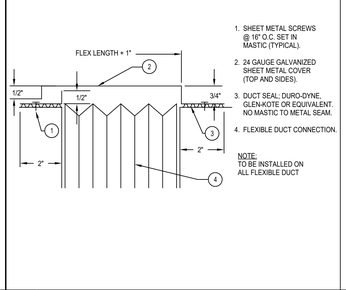

**11** SPIRAL DUCT DIFFUSER MOUNTING
1/2" = 1'-0"




**10** ROOF TOP UNIT DETAIL.
12" = 1'-0"



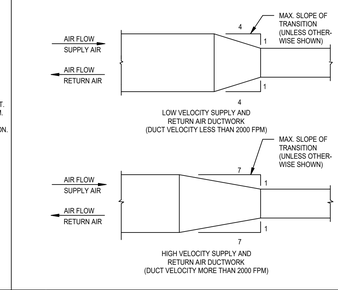

**9** COMBINATION ROOFTOP RTHP-A1 & ERV-A1 CURB DETAIL
6" = 1'-0"



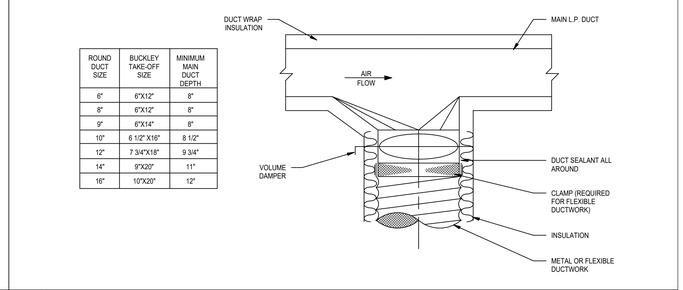

1. SHEET METAL SCREWS @ 16" O.C. SET IN MASTIC (TYPICAL).
2. 24 GAUGE GALVANIZED SHEET METAL COVER (TOP AND SIDES).
3. DUCT SEAL; DURO-DYNE, GLEN-KOTE OR EQUIVALENT. NO MASTIC TO METAL SEAM.
4. FLEXIBLE DUCT CONNECTION.

NOTE:
TO BE INSTALLED ON ALL FLEXIBLE DUCT

**8** FLEX CONNECTOR DETAIL.
NOT TO SCALE

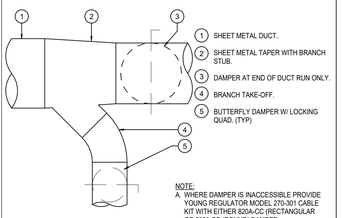



**7** RECTANGULAR DUCT TRANSITION DETAIL.
NOT TO SCALE




| ROUND DUCT SIZE | BUCKLEY TAKE-OFF SIZE | MINIMUM MAIN DUCT DEPTH |
|---|---|---|
| 6" | 6"X12" | 8" |
| 8" | 6"X12" | 8" |
| 9" | 6"X14" | 8" |
| 10" | 6 1/2" X16" | 8 1/2" |
| 12" | 7 3/4"X18" | 9 3/4" |
| 14" | 9"X20" | 11" |
| 16" | 10"X20" | 12" |

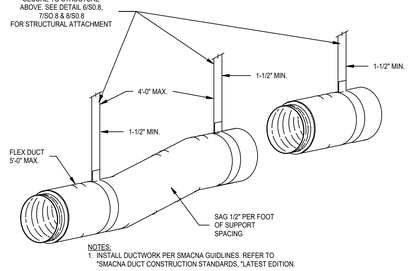
**6** RECTANGULAR TO ROUND TRANSITION TAKE-OFF DETAIL.
NOT TO SCALE




1. SHEET METAL DUCT.
2. SHEET METAL TAPER WITH BRANCH STUB.
3. DAMPER AT END OF DUCT RUN ONLY.
4. BRANCH TAKE-OFF.
5. BUTTERFLY DAMPER W/ LOCKING QUAD. (TYP.)

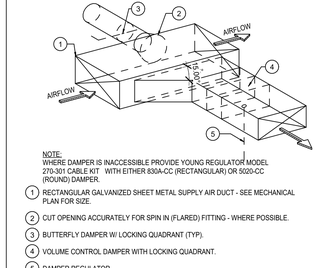
NOTE:
A. WHERE DAMPER IS INACCESSIBLE PROVIDE YOUNG REGULATOR MODEL 270-301 CABLE KIT WITH EITHER 820A-CC (RECTANGULAR OR 5020-CC (ROUND) DAMPER.
B. PROVIDE DAMPER WITH LOCKING QUADRANT AT ALL SINGLE RUNOUTS.

**5** BRANCH DUCT DAMPER DETAIL.
NOT TO SCALE




NOTES:
1. INSTALL DUCTWORK PER SMACNA GUIDLINES. REFER TO "SMACNA DUCT CONSTRUCTION STANDARDS, "LATEST EDITION.

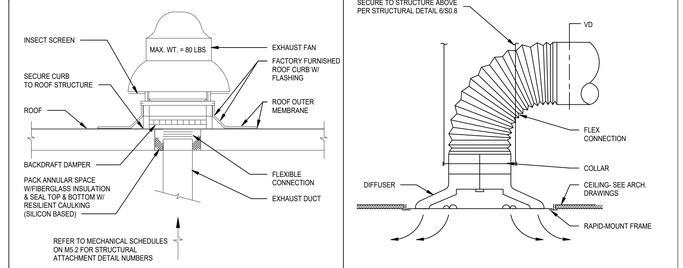
**4** FLEXIBLE DUCTWORK HANGER DETAIL.
NOT TO SCALE




NOTE:
WHERE DAMPER IS INACCESSIBLE PROVIDE YOUNG REGULATOR MODEL 270-301 CABLE KIT . WITH EITHER 830A-CC (RECTANGULAR) OR 5020-CC (ROUND) DAMPER.

1. RECTANGULAR GALVANIZED SHEET METAL SUPPLY AIR DUCT - SEE MECHANICAL PLAN FOR SIZE.
2. CUT OPENING ACCURATELY FOR SPIN IN (FLARED) FITTING - WHERE POSSIBLE.
3. BUTTERFLY DAMPER W/ LOCKING QUADRANT (TYP).
4. VOLUME CONTROL DAMPER WITH LOCKING QUADRANT.
5. DAMPER REGULATOR.

**3** BRANCH DUCT TAKE-OFF & DMP. DETAIL.
NOT TO SCALE




**2** ROOF MOUNTED EXHAUST FAN DETAIL.
NOT TO SCALE




**1** HARD LID DIFFUSER CONNECTION DETAIL.
NOT TO SCALE

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CENTENNIAL HIGH SCHOOL AQUATICS CENTER

PROJECT ADDRESS:
1820 RIMPAU AVE.
CORONA, CA 92881

100% CONSTRUCTION DOCUMENTS

DSA APPL NO.: ##-#####  DSA FILE NO.: ##-##

KEY PLAN
NORTH: PLAN

Consultant
REGISTERED PROFESSIONAL ENGINEER — REX DAVID YAANG — No.M36155 — Exp.09-30-2024 — SIGNATURE — STATE OF CALIFORNIA

Architect

CLIENT
CNUSD
DATE 2/24/2023
PROJECT NUMBER 220306

REVISIONS

| No. | Description | Date |
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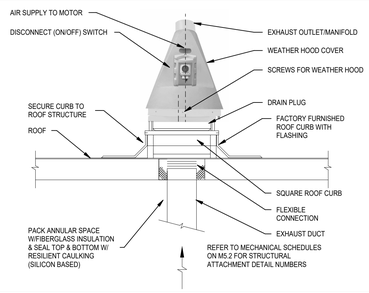
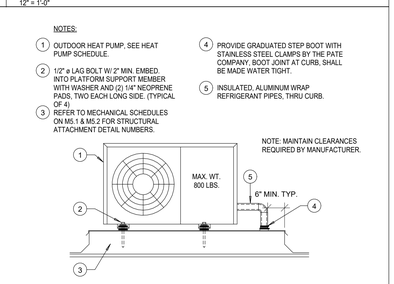
MECHANICAL DETAILS

M6.1

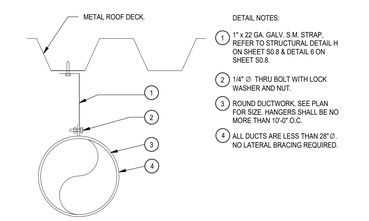
0" 1"




**1** CHEMICAL EXHAUST FAN DETAIL - EF-A2 & EF-A4
12" = 1'-0"




**2** HEAT PUMP MOUNTING DETAIL
12" = 1'-0"




**3** ROUND DUCT HANGER DETAIL...
12" = 1'-0"

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# CENTENNIAL HIGH SCHOOL AQUATICS CENTER

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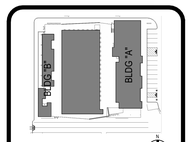


Consultant

REGISTERED PROFESSIONAL ENGINEER
REX DAVID YEANG
No.M36155
Exp.09-30-2024
STATE OF CALIFORNIA

Architect

CLIENT
CNUSD

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| 2/24/2023 | 220306 |

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## MECHANICAL DETAILS

M6.2

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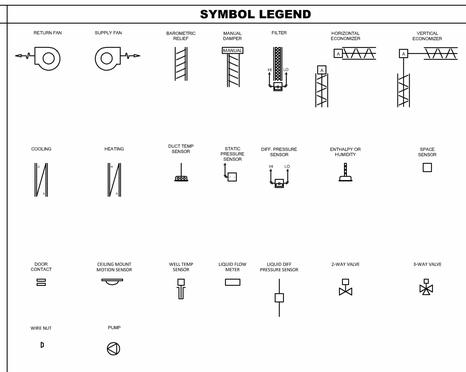
0" 1"

## COMMON ABBREVIATIONS

| ABBREVIATION | DESCRIPTION |
|---|---|
| **AC** | AIR CONDITIONING |
| **ACU** | AIR CONDITIONING UNIT |
| **AHU** | AIR HANDLING UNIT |
| **AI** | ANALOG INPUT |
| **AO** | ANALOG OUTPUT |
| **AUTO** | AUTOMATIC |
| **AUX** | AUXILIARY |
| **BAI** | BACNET ANALOG INPUT |
| **BAO** | BACNET ANALOG OUTPUT |
| **BBI** | BACNET BINARY INPUT |
| **BBO** | BACNET BINARY OUTPUT |
| **BI** | BINARY INPUT |
| **BO** | BINARY OUTPUT |
| **C** | COMMON |
| **CHW** | CHILLED WATER |
| **CHWP** | CHILLED WATER PUMP |
| **CHWR** | CHILLED WATER RETURN |
| **CHWS** | CHILLED WATER SUPPLY |
| **COND** | CONDENSER |
| **CW** | CONDENSER WATER |
| **CWP** | CONDENSER WATER PUMP |
| **CWR** | CONDENSER WATER RETURN |
| **CWS** | CONDENSER WATER SUPPLY |
| **DA** | DISCHARGE AIR |
| **DI** | DIGITAL INPUT |
| **DO** | DIGITAL OUTPUT |
| **EA** | EXHAUST AIR |
| **EF** | EXHAUST FAN |
| **EVAP** | EVAPORATOR |
| **F** | FAHRENHEIT |
| **FCU** | FAN COIL UNIT |
| **HOA** | HAND/OFF/AUTO |
| **HP** | HEAT PUMP |
| **HRU** | HEAT RECOVERY UNIT |
| **HTEX** | HEAT EXCHANGER |
| **HW** | HOT WATER |
| **HWP** | HOT WATER PUMP |
| **HWR** | HOT WATER RETURN |
| **HWS** | HOT WATER SUPPLY |
| **MAX** | MAXIMUM |
| **MIN** | MINIMUM |
| **MISC** | MISCELLANEOUS |
| **NC** | NORMALLY CLOSED |
| **NO** | NORMALLY OPEN |
| **OA** | OUTDOOR AIR |
| **RA** | RETURN AIR |
| **RF** | RETURN FAN |
| **RH** | RELATIVE HUMIDITY |
| **RTU** | ROOFTOP UNIT |
| **SA** | SUPPLY AIR |
| **SF** | SUPPLY FAN |
| **SP** | STATIC PRESSURE |
| **TEMP** | TEMPERATURE |
| **UH** | UNIT HEATER |
| **UV** | UNIT VENTILATOR |
| **VAV** | VARIABLE AIR VOLUME |
| **VAVTU** | VARIABLE AIR VOLUME TERMINAL UNIT |
| **VVT** | VARIABLE VOLUME & TEMPERATURE |
| **W/** | WITH |
| **W/O** | WITHOUT |
| **WSHP** | WATER SOURCE HEAT PUMP |

## SYMBOL LEGEND




## GENERAL INFORMATION

COMMUNICATION BUS SPECIFICATION

1. A 24 AWG 2-CONDUCTOR-SHIELDED-STRANDED CABLE (PLENUM RATED AS REQUIRED) MUST BE DAISY CHAINED FROM CONTROLLER TO CONTROLLER. IT SHOULD BE COLOR-CODED (RED, BLACK, WHITE)
2. THE COMMUNICATION CABLE OPERATES AT UP TO 5 VDC. VERIFY WITH THE LOCAL CODE AUTHORITY AND SPECS REGARDING CONDUIT REQUIREMENTS.
3. NO "T" TAP OR "STAR" TYPE CONNECTIONS ARE PERMITTED.
4. TERMINATE THE SHIELDS ON THE DESIGNATED TERMINAL AT EACH DEVICE.
5. 30 CONTROLLER'S MAXIMUM PER COMMUNICATION BUS SEGMENT. 60 CONTROLLER'S MAXIMUM PER NETWORK ROUTER.
6. A REPEATER IS REQUIRED EVERY 2000 FT. OR 30 DEVICES. MAXIMUM OF 4 REPEATERS PER BUS FOR A TOTAL OF 10,000 FT.

POWER TO VVT AND VAV DAMPER ACTUATORS/CONTROLLERS

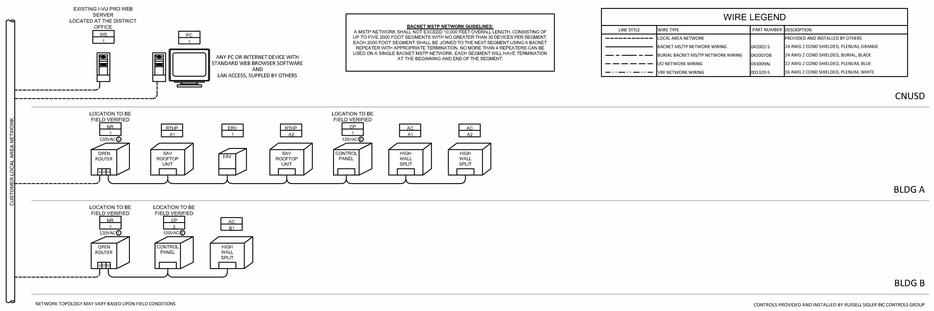
1. EACH ZONE REQUIRES A 24 VAC, 40 VA TRANSFORMER (MORE IN SOME CASES DEPENDING ON THE VALVE OR ELECTRIC HEATER REQUIREMENTS).
2. IT IS RECOMMENDED THAT EACH ZONE HAVE ITS OWN TRANSFORMER, HOWEVER ZONES MAY BE GROUPED UP TO 100 VA AND STILL REMAIN IN UL CLASS 2 CONFORMANCE.
   BE CAREFUL OF VOLTAGE DROP. THE DAMPER WILL OPERATE IN A POWER RANGE OF 22 TO 26 VAC. THE DAMPER WILL NOT OPERATE AT - VOLTAGES LESS THAN 22 VAC.

GENERAL NOTES

1. THE 2 CONDUCTOR COMMUNICATION CABLE AND SENSOR CABLES MUST ALWAYS BE IN A SEPARATE JACKET FROM ONE ANOTHER. NEVER RUN THE SE CABLES IN THE SAME CONDUIT AS, OR BUNDLE THEM WITH, AC POWER WIRING OF ANY VOLTAGE. DO NOT STRAP THESE CABLES ALONG ANY CONDUITS THAT CONTAIN AC POWER WIRING OF ANY VOLTAGE.
2. DO NOT RUN THESE CABLES IN RINGS OR CONDUIT WITH FIRE, LIFE, SAFETY, SECURITY, NETWORK, TELEPHONE, POWER, OR OTHER WIRING WHEN RUNNING COMMUNICATION AND SENSOR WIRING PARALLEL TO OTHER CABLING OR CONDUIT MAINTAIN A 12 IN. DISTANCE.
3. ETHERNET AND/OR INTERNET CONNECTION TO I-VU ARE SUPPLIED AND MAINTAINED BY BUILDING OWNER/OPERATOR.

INSTALLATION COORDINATION NOTES

1. INSTALLER SHALL COORDINATE ALL POWER AND DATA CONNECTION REQUIREMENTS WITH THE GC ONSITE.
2. INSTALL ALL COMPONENTS IN ACCORDANCE WITH THE SPECIFICATION, APPLICABLE CODES AND MANUFACTURER'S LITERATURE

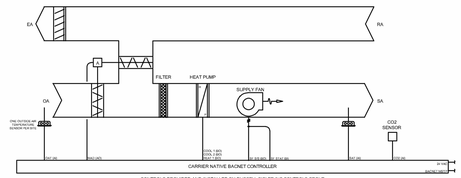



**BACNET MS/TP NETWORK GUIDELINES:**
A MSTP NETWORK SHALL NOT EXCEED 10,000 FEET OVERALL LENGTH, CONSISTING OF UP TO FIVE 2000 FOOT SEGMENTS WITH NO GREATER THAN 30 DEVICES PER SEGMENT. EACH 2000 FOOT SEGMENT SHALL BE JOINED TO THE NEXT SEGMENT USING A BACNET REPEATER WITH OPTO-ISOLATION. UP TO FOUR REPEATERS CAN BE USED ON A SINGLE BACNET MSTP NETWORK. EACH SEGMENT WILL HAVE TERMINATION AT THE BEGINNING AND END OF THE SEGMENT.

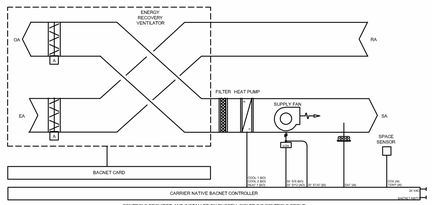
WIRE LEGEND

| LINE STYLE | WIRE TYPE | PART NUMBER | DESCRIPTION |
|---|---|---|---|
| | LOCAL AREA NETWORK | | PROVIDED AND INSTALLED BY OTHERS |
| | BACNET MS/TP NETWORK WIRING | 042002-S | 24 AWG 2 COND SHIELDED, PLENUM, ORANGE |
| | BURIAL BACNET MS/TP NETWORK WIRING | 042007DB | 24 AWG 2 COND SHIELDED, BURIAL, BLACK |
| | ID NETWORK WIRING | 5K6006NL | 22 AWG 2 COND SHIELDED, PLENUM, BLUE |
| | VBI NETWORK WIRING | 451323-S | 18 AWG 2 COND SHIELDED, PLENUM, WHITE |

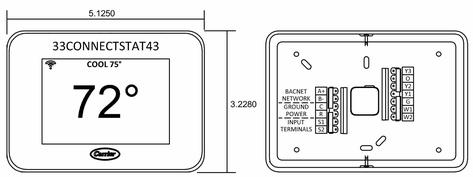
BACS RISER DIAGRAM | 1




HEAT PUMP ROOFTOP UNIT DETAIL (RTHP-A2) | 2




ROOFTOP UNIT W/ ERV DETAIL (RTHP-A1) | 8




WI-FI COMMERCIAL THERMOSTAT PROVIDIED BY EQUIPMENT MANUFACTURER
- OCCUPANT CONTROLED SMART THERMOSTAT (OCST)
- TITLE-24 110.12 (IAS) / IECC C403.4 COMPLIANT
- WIRED BACNET MS/TP

NOTES
1. BACNET CONTROLLER TO BE PROVIDED BY ERV EQUIPMENT MANUFACTURER

HIGH WALL SPLIT THERMOSTAT DETAIL (AC-A1, A2, AND B1) | 9

**SEQUENCES OF OPERATION**

**SEQUENCE OF OPERATION FOR CNUSD CENTENNIAL HS AQUATICS CENTER**

**1.1.1 HEAT PUMP ROOFTOP UNIT CONTROLLER (RTHP-A2)**

**INDOOR FAN**
DURING OCCUPIED PERIODS, FAN SHALL OPERATE CONTINUOUSLY. DURING UNOCCUPIED PERIODS, FAN SHALL OPERATE WHEN THE SPACE TEMPERATURE EXCEEDS THE UNOCCUPIED HEATING OR COOLING SETPOINTS. THE FAN OPERATES AT ONE SPEED ONLY AND PROVIDES ON/OFF OPERATION.

**HEATING MODE**
WHEN SPACE TEMPERATURE IS BELOW THE OCCUPIED HEATING SETPOINT, UNIT SHALL OPERATE IN THE HEATING MODE. UNIT SHALL STAGE AVAILABLE HEAT STAGES TO SATISFY DEMAND IN THE OCCUPIED SPACE.

**COOLING MODE**
WHEN SPACE TEMPERATURE IS ABOVE OCCUPIED COOLING SETPOINT, UNIT SHALL OPERATE IN THE COOLING MODE. UNIT SHALL ENABLE AVAILABLE COOLING STAGES TO SATISFY DEMAND IN THE OCCUPIED SPACE.

**ECONOMIZER**
ECONOMIZER SHALL CLOSE WHEN FAN IS OFF OR DURING A LOSS OF POWER. DURING OCCUPIED HOURS, WHEN FAN IS ENERGIZED, THE ECONOMIZER SHALL OPEN TO ADJUSTABLE MINIMUM POSITION. WHEN OUTSIDE AIR TEMPERATURE IS BELOW 74° AND OCCUPIED SPACE REQUIRES COOLING, ECONOMIZER SHALL OPEN. IF ECONOMIZER AIR IS NOT SUFFICIENT TO MEET THE DEMAND IN THE OCCUPIED SPACE, UNIT SHALL ENABLE AVAILABLE COOLING STAGES TO SATISFY DEMAND IN THE OCCUPIED SPACE.

**CO2 CONTROL**
UNIT SHALL MONITOR SPACE CO2 WHEN THE SUPPLY FAN IS ENERGIZED. WHEN CO2 IS ABOVE SETPOINT OF 1000 PPM, ECONOMIZER SHALL MODULATE OPEN TOWARD AN ADJUSTABLE MAXIMUM CO2 POSITION. AS THE CO2 LEVEL IN THE SPACE INCREASES ABOVE THE SETPOINT, THE MINIMUM POSITIONS OF THE DAMPERS WILL BE INCREASED PROPORTIONALLY, UNTIL THE MAXIMUM VENTILATION SETTING IS REACHED. AS THE SPACE CO2 LEVEL DECREASES BECAUSE OF THE INCREASE IN FRESH AIR, THE OUTDOOR-DAMPER WILL FOLLOW THE HIGHER DEMAND CONDITION FROM THE DCV MODE OR FROM THE FREE-COOLING MODE.

**1.1.2 HEAT PUMP ROOFTOP UNIT CONTROLLER (RTHP-A1)**

**INDOOR FAN**
DURING OCCUPIED PERIODS, THE FAN SHALL OPERATE CONTINUOUSLY. DURING UNOCCUPIED PERIODS, THE FAN SHALL OPERATE WHEN THE SPACE TEMPERATURE EXCEEDS THE UNOCCUPIED HEATING OR COOLING SETPOINTS. THE FAN OPERATES AT A VARIABLE SPEED TO MEET THE LOAD CONDITIONS AND SAT SAFETY REQUIREMENTS TO PROVIDE MAXIMUM ENERGY SAVINGS BY MINIMIZING FAN HORSEPOWER CONSUMPTION. FAN SPEED IS NOT CONTROLLED BY STATIC PRESSURE.

**HEATING MODE**
WHEN SPACE TEMPERATURE IS BELOW THE OCCUPIED HEATING SETPOINT, UNIT SHALL OPERATE IN THE HEATING MODE. UNIT SHALL STAGE AVAILABLE HEAT STAGES TO SATISFY DEMAND IN THE OCCUPIED SPACE.

**COOLING MODE**
WHEN SPACE TEMPERATURE IS ABOVE OCCUPIED COOLING SETPOINT, UNIT SHALL OPERATE IN THE COOLING MODE. UNIT SHALL ENABLE AVAILABLE COOLING STAGES TO SATISFY DEMAND IN THE OCCUPIED SPACE.

**CO2 CONTROL**
UNIT SHALL MONITOR SPACE CO2 WHEN THE SUPPLY FAN IS ENERGIZED. WHEN CO2 IS ABOVE SETPOINT OF 1000 PPM, AN ALARM WILL DISPLAY ON THE BACS.

**1.1.3 HIGH WALL SPLIT THERMOSTAT (AC-A1, A2, AND B1)**

**INDOOR FAN**
DURING OCCUPIED PERIODS, FAN SHALL OPERATE CONTINUOUSLY. DURING UNOCCUPIED PERIODS, FAN SHALL OPERATE WHEN THE SPACE TEMPERATURE EXCEEDS THE UNOCCUPIED HEATING OR COOLING SETPOINTS. THE FAN OPERATES AT ONE SPEED ONLY AND PROVIDES ON/OFF OPERATION.

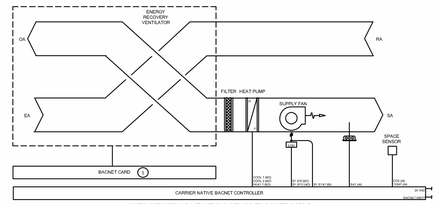
**COOLING MODE**
WHEN SPACE TEMPERATURE IS ABOVE OCCUPIED COOLING SETPOINT, UNIT SHALL OPERATE IN THE COOLING MODE. UNIT SHALL ENABLE AVAILABLE COOLING STAGES TO SATISFY DEMAND IN THE OCCUPIED SPACE.

**1.1.4 EXHAUST FAN DETAIL (CP-1 AND CP-2)**

**EXHAUST FANS**
EXHAUST FANS SHALL RUN BASED ON AN OCCUPIED TIME SCHEDULE (CONFIGURABLE)
EXHAUST FAN STATUS WILL BE MONITORED THROUGH A CURRENT SENSING SWITCH. IF THE CURRENT SWITCH DOES NOT DETECT FAN STATUS AFTER A START COMMAND HAS BEEN SENT TO THE ASSOCIATED EXHAUST FAN, AN ALARM WILL BE GENERATED TO THE I-VU WEB SERVER.

First Page

SEQUENCES OF OPERATION | 7

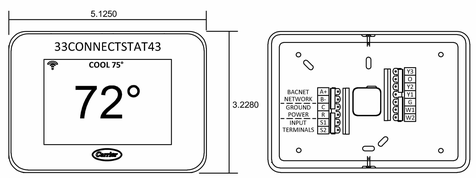



ROOFTOP UNIT W/ ERV DETAIL (RTHP-A1) | 6

**ERV FACTORY INSTALLED BACNET CONTROLLER POINTS**

| POINT NAME | HARDWARE POINTS AI | AO | BI | BO | SOFTWARE POINTS AV | BV |
|---|---|---|---|---|---|---|
| AUTO ENABLE/DISABLE | | | | | | X |
| EXHAUST FAN ENABLE | | | | X | | |
| FILTER ALARM | | | X | | | |
| BYPASS CONTROL | | | | X | | |
| SUPPLY FAN SPEED | | X | | | | |
| EXHAUST FAN SPEED | | X | | | | |
| SUPPLY AIR TEMP | X | | | | | |

ERV BACNET POINTS LIST | 5

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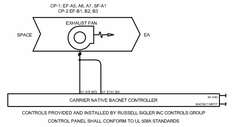
- WIRED BACNET MS/TP

NOTES
1. BACNET CONTROLLER TO BE PROVIDED BY ERV EQUIPMENT MANUFACTURER

HIGH WALL SPLIT THERMOSTAT DETAIL (AC-A1, A2, AND B1) | 3




EXHAUST FAN DETAIL (CP-1 AND CP-2) | 4

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# CENTENNIAL HIGH SCHOOL AQUATICS CENTER

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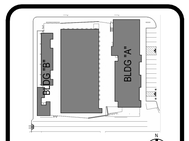


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Architect

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**MECHANICAL CONTROLS**

**M7.1**

E0.0 - ELECTRICAL SYMBOLS, NOTES, AND ABBREVIATIONS

0" 1"

## ELECTRICAL SYMBOL LEGEND

1. EVERY SYMBOL SHOWN ON LEGEND MAY NOT APPEAR ON DRAWINGS.
2. DASHED ELECTRICAL EQUIPMENT GENERALLY INDICATES EXISTING EQUIPMENT.
3. LONG-SHORT-SHORT-LONG DASHING GENERALLY INDICATES MATCH LINE OR DEFINES AREA FOR SPECIAL NOTE.

CIRCUIT RELATED:

LIGHTING OR POWER CIRCUIT(S). ARROW INDICATES HOME RUN, LONGER TICK(S) INDICATE NEUTRAL WIRE(S), SHORTER STRAIGHT TICK(S) INDICATE PHASE WIRE(S), SLANTED SHORTER TICK(S) INDICATE SWITCH LEG(S), DOT(S) INDICATE GROUNDING CONDUCTOR(S), DASHED WIRING (LONG-SHORT-LONG DASHES) INDICATES WIRING BELOW SLAB OR GRADE. DASHED WIRING (SERIES OF SHORT DASHES) INDICATES EXISTING WIRING. SLASH THROUGH ARROW INDICATES PARTIAL CIRCUIT. "D" ON HOMERUN ARROW INDICATES DEDICATED CIRCUIT. PROVIDE A SEPARATE NEUTRAL FOR EACH PHASE CONDUCTOR FOR ENTIRE LENGTH OF CIRCUIT FROM PANEL TO OUTLET; COUNT EACH NEUTRAL AS CURRENT-CARRYING AND GROUP A MAXIMUM OF SIX THHN/THWN CONDUCTORS IN A SINGLE RACEWAY; GROUNDING CONDUCTOR IS NOT COUNTED.
NOTE: HOMERUN INDICATES INSTALLATION OF NEW WIRE AND CONDUIT (#12 WIRE, 3/4"C, UNLESS OTHERWISE NOTED) FROM SOURCE PANELBOARD TO LOAD. HOMERUN INDICATES CONNECTION OF NEW LOADS TO EXISTING CIRCUITS IN LIEU OF PANELBOARD WHERE NOTED ON PLANS.

JUNCTION BOX

GROUNDING FIXTURE

LIGHTING:

LED LIGHTING FIXTURE. LETTER INDICATES TYPE, SMALL LETTER INDICATES SWITCH CONTROL, NUMBER INDICATES CIRCUIT. CROSS HATCHING INDICATES FIXTURE ON EMERGENCY SYSTEM, FOR SOLID CIRCLE WITHIN FIXTURE REFERENCE APPROPRIATE CATEGORY "A" CIRCUIT RELATED SYMBOL

STRIP TYPE LED LIGHTING FIXTURE. LETTER INDICATES TYPE, SMALL LETTER INDICATES SWITCH CONTROL, NUMBER INDICATES CIRCUIT, FOR SOLID CIRCLE ATTACHED TO FIXTURE REFERENCE APPROPRIATE CATEGORY "A" CIRCUIT RELATED SYMBOL

LED LIGHTING FIXTURE. LETTER INDICATES TYPE, SMALL LETTER INDICATES SWITCH CONTROL, NUMBER INDICATES CIRCUIT, FOR SOLID CIRCLE REFERENCE APPROPRIATE CATEGORY "A" CIRCUIT RELATED SYMBOL

DESIGNATES FIXTURE ON EMERGENCY POWER. RE: LIGHTING PLAN NOTES AND FIXTURE SCHEDULE NOTES FOR ADDITIONAL INFORMATION

WALL OR BRACKET MOUNTED FIXTURE OR DEVICE

EXIT LIGHT FIXTURE. LETTER INDICATES TYPE, NUMBER INDICATES CIRCUIT, NUMBER AND LOCATION OF SHADED TRIANGLE SECTIONS INDICATE NUMBER OF EXIT SIGN FACES AND DIRECTION OF EACH FACE. PROVIDE CHEVRON DIRECTIONAL INDICATORS AS SHOWN ON DRAWINGS

CONTROL:

SWITCH. SMALL LETTER INDICATES FIXTURES CONTROLLED, "P" INDICATES PILOT LIGHT, "WP" INDICATES WEATHERPROOF, "K" INDICATES KEY POERATED, "MO" INDICATES SPDT MOMENTARY CONTACT, "2" INDICATES DPDT, "3" INDICATES 3-WAY, "4" INDICATES 4-WAY, "M" INDICATES MANUAL MOTOR STARTER, CIRCUIT DESIGNATION NEXT TO SWITCH INDICATES BRANCH CIRCUIT NUMBER

WALL BOX DIMMER SWITCH. "MARK" INDICATES WATTAGE IF OTHER THAN 600, "3D" INDICATES 3-WAY DIMMER

MULTI-LEVEL SWITCH. CIRCUIT DESIGNATION NEXT TO SWITCH INDICATES BRANCH CIRCUIT NUMBER

DIGITAL TIME SWITCH

PHOTOELECTRIC CONTROL

EMERGENCY POWER OFF (EPO) PUSHBUTTON

PUSH BUTTON

WALL MOUNT OCCUPANCY SENSOR

WALL MOUNT OCCUPANCY SENSOR WITH DIMMING CONTROLS

DUAL TECHNOLOGY CEILING MOUNTED OCCUPANCY SENSOR

CEILING MOUNTED RESTROOM OCCUPANCY SENSOR

CEILING MOUNTED CORRIDOR OCCUPANCY SENSOR

CEILING MOUNTED HIGH CEILING OCCUPANCY SENSOR

POWER OUTLETS:

20A-125V DUPLEX RECEPTACLE

20A-125V GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE. "WP" INDICATES WEATHER PROOF DEVICE

20A-125V DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER TOP. REFER TO ARCHITECT FOR EXACT HEIGHT ABOVE COUNTER

20A-125V CONTROLLED DUPLEX RECEPTACLE

20A-125V ISOLATED GROUND TYPE DUPLEX RECEPTACLE

20A-125V DUPLEX TAMPER RESISTANT RECEPTACLE WITH (2) USB CHARGING PORTS

20A-125V FOURPLEX RECEPTACLE. SAME SYMBOLOGY AS DUPLEX RECEPTACLE

SPECIAL PURPOSE SINGLE POWER RECEPTACLE, RATED AS INDICATED (IF NO RATING INDICATED, RECEPTACLE RATING SHALL MATCH BRANCH CIRCUIT OVERCURRENT PROTECTIVE DEVICE AND SHALL MEET REQUIREMENTS OF EQUIPMENT BEING CONNECTED), "C" INDICATES CLOCK OUTLET

20A-125V FLUSH FLOOR DUPLEX RECEPTACLE. 20A WHEN INDICATED OR IF BRANCH CIRCUIT SERVES ONLY SINGLE DUPLEX. PROVIDE CARPED FLANGE WHERE APPLICABLE

LC1-X CIRCUIT DESIGNATION NEXT TO RECEPTACLE DEVICES INDICATES BRANCH CIRCUIT NUMBER. SEE PANEL SCHEDULES FOR INFORMATION.

TELEPHONE/DATA:

FLUSH FLOOR TELEPHONE OUTLET WITH CARPET FLANGE WHERE APPLICABLE

WALL COMMUNICATIONS OR DATA OUTLET. REFER TO 'TS' SERIES SHEETS FOR EXACT BOX / CONDUIT REQUIREMENTS

FLUSH FLOOR COMMUNICATIONS OR DATA OUTLET. REFER TO 'TS' SERIES SHEETS FOR EXACT BOX / CONDUIT REQUIREMENTS. PROVIDE CARPET FLANGE WHERE APPLICABLE

SURFACE FLOOR COMMUNICATIONS OR DATA OUTLET. REFER TO 'TS' SERIES SHEETS FOR EXACT BOX / CONDUIT REQUIREMENTS. PROVIDE CARPET FLANGE WHERE APPLICABLE

EQUIPMENT:

+42" A NOTATION INDICATING THE MOUNTING HEIGHT OF A DEVICE AS MEASURED FROM FINISHED FLOOR OR GRADE TO CENTER LINE OF DEVICE

MOTOR

DISCONNECT SWITCH. FRAME SIZE/FUSE SIZE/POLES AS INDICATED, "NF" INDICATES NON-FUSIBLE. NEMA 1 ENCLOSURE UNLESS OTHERWISE NOTED. PROVIDE FUSED BUSWAY PLUG WHEN SWITCH IS INDICATED ON BUSWAY. ALL DISCONNECT SWITCHES SHALL BE 30/NF/3 UNLESS OTHERWISE NOTED

SINGLE CIRCUIT BREAKER IN INDIVIDUAL ENCLOSURE

MAGNETIC MOTOR CONTROLLER. NUMBER INDICATES NEMA SIZE. STARTER NEMA SIZE SHALL BE "NEMA 1" UNLESS OTHERWISE NOTED

COMBINATION DISCONNECT SWITCH / MOTOR CONTROLLER

CONTACTOR

PANELBOARD

SWITCHBOARD / DP

TRANSFORMER

GROUNDING CONNECTION TO GROUNDING ELECTRODE AS DEFINED IN CEC ARTICLE 250

BELL. "WP" INDICATED OUTDOOR RATED

REMODEL:

(E) EQUIPMENT WITH "E" ADJACENT IS EXISTING TO REMAIN.

(R) EXISTING EQUIPMENT WITH "R" ADJACENT IS TO BE COMPLETELY DISCONNECTED AND REMOVED.

(RR) EXISTING EQUIPMENT WITH "RR" ADJACENT IS TO BE DISCONNECTED, REMOVED AND RELOCATED TO NEW LOCATION AND RECONNECTED AS REQUIRED.

(ER) EQUIPMENT WITH "ER" ADJACENT IS RELOCATED EQUIPMENT SHOWN IN NEW LOCATION.

NO TAG INDICATES NEW EQUIPMENT.

(E) PNL-CKT CIRCUIT DESIGNATION WITH PREFIX "(E)" DENOTES EXISTING CIRCUIT AND EQUIPMENT IS TO REMAIN.

## GENERAL NOTES

1. THE CONTRACTOR SHALL VISIT THE SITE INCLUDING ALL AREAS INDICATED ON THE DRAWINGS. HE SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS AND BY SUBMITTING A BID, ACCEPTS THE CONDITIONS UNDER WHICH HE SHALL BE REQUIRED TO PERFORM HIS WORK.
2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN A COMPLETE SET OF CONTRACT DOCUMENTS AND ADDENDA (DRAWINGS AND SPECIFICATIONS.) HE SHALL CHECK THE CONTRACT DOCUMENTS OF THE OTHER TRADES AND DETERMINE HIS RESPONSIBILITIES. FAILURE TO DO SO SHALL NOT RELEASE THE CONTRACTOR FROM COMPLETING ALL RESPONSIBLE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
3. THE CONTRACTOR SECURE AND PAY FOR ALL PERMITS, FEES, CHARGES, AND INCIDENTAL COSTS NECESSARY FOR EXECUTION AND COMPLETION OF ELECTRICAL WORK, INCLUDING ALL CHARGES BY STATE, COUNTY AND LOCAL GOVERNMENTAL AGENCIES.
4. ALL ELECTRICAL WORK REFERENCED HEREIN SHALL BE COORDINATED WITH OTHER TRADES AND SITE CONDITIONS. ANY COSTS TO INSTALL WORK TO ACCOMPLISH SAID COORDINATION WHICH DIFFERS FROM THE WORK AS SHOWN ON THE CONTRACT DOCUMENTS SHALL BE INCURRED BY THE CONTRACTOR, ANY DISCREPANCIES, AMBIGUITIES OR CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT DURING BID TIME FOR CLARIFICATION. ANY SUCH CONFLICTS NOT CLARIFIED PRIOR TO BID SHALL BE SUBJECT TO THE INTERPRETATION OF THE ARCHITECT AT NO ADDITIONAL COST TO THE OWNER.
5. PROVIDE TEMPORARY POWER FACILITIES AND CONNECTIONS FOR ALL FEEDERS, BRANCH CIRCUITS OR SIGNAL AND COMMUNICATIONS SYSTEMS BEING DISCONNECTED IN ORDER TO MAINTAIN SYSTEMS IN OPERATION.
6. ALL INTERRUPTION OF ELECTRICAL POWER SHALL BE KEPT TO A MINIMUM. HOWEVER WHEN AN INTERRUPTION IS NECESSARY, THE SHUTDOWN MUST BE COORDINATED WITH THE OWNER AND ENGINEER 14 DAYS PRIOR TO THE OUTAGE AND OVERTIME PAY SHALL BE INCLUDED IN THE CONTRACTOR'S BID. WORK IN EXISTING SWITCHBOARDS OR PANEL BOARDS SHALL BE COORDINATED WITH THE OWNER PRIOR TO REMOVING ACCESS PANELS OR DOORS.
7. AFTER ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS HAVE BEEN FULLY COMPLETED. REPRESENTATIVES OF THE OWNERS WILL INSPECT THE WORK. THE CONTRACTOR SHALL PROVIDE COMPETENT PERSONNEL TO DEMONSTRATE THE OPERATION OF ANY ITEM OR SYSTEM TO THE FULL SATISFACTION OF EACH REPRESENTATIVE. FINAL ACCEPTANCE OF THE WORK WILL BE MADE BY THE OWNER AFTER RECEIPT OF APPROVAL AND RECOMMENDATION OF ACCETANCE FROM EACH REPRESENTATIVE.
8. FURNISH A ONE YEAR WRITTEN GUARANTEE OF MATERIALS AND WORKMANSHIP FROM THE DATE OF PUNCH LIST COMPLETION.
9. ALL FINAL CONNECTIONS TO OWNER FURNISHED EQUIPMENT SHALL BE MADE BY THE CONTRACTOR.
10. EXACT METHOD AND LOCATION OF CONDUIT PENETRATION AND OPENINGS IN CONCRETE OR MASONARY WALLS, GRADEBEAMS, FLOORS OR STRUCTURAL STEEL MEMBER SHALL BE AS DIRECTED BY THE STRUCTURAL ENGINEER. PERFORM CORING, SAWCUTTING, PATCHING, AND REFINISHING OF WALLS AND SURFACES WHEREVER IT IS NECESSARY TO PENETRATE. OPENINGS SHALL BE SEALED IN AN APPROVED METHOD TO MEET THE FIRE RATING OF THE PARTICULAR WALL. FLOOR OR CEILING EXACT METHOD AND LOCATION OF CONDUIT PENETRATIONS AND OPENINGS IN CONCRETE WALLS OR FLOORS SHALL BE UL APPROVED.
11. FINAL CONNECTIONS TO VIBRATING EQUIPMENT AND AT SEISMIC SEPARATIONS SHALL BE FLEXIBLE STEEL CONDUIT IN DRY INTERIOR LOCATIONS, AND LIQUID-TIGHT FLEXIBLE STEEL CONDUIT IN AREAS EXPOSED TO WEATHER, DAMP LOCATIONS, CONNECTIONS TO TRANSFORMER ENCLOSURES, AND FINAL CONNECTIONS TO MOTORS.
12. EQUIPMENT OUTLETS, LIGHTING FIXTURES, CONDUIT, WIRE AND CONNECTION METHODS IN HVAC AIR-PLENUMS SHALL BE APPROVED FOR USE IN PLENUMS AND SHALL CONFORM TO THE CALIFORNIA ELECTRICAL CODE.
13. ROUTE EXPOSED CONDUIT AND CONDUIT ABOVE ACCESSIBLE CEILING SPACES PARALLEL AND PERPENDICULAR TO WALLS AND ADJACENT PIPING, ARRANGE CONDUIT TO MAINTAIN HEADROOM AND TO PRESENT A NEAT APPEARANCE.
14. CONDUIT SHALL NOT BE INSTALLED IN ANY FLOOR SLAB. CONDUIT SHALL BE INSTALLED CONCEALED IN THE CEILING SPACE, CONCEALED WALLS, OR 24" MINIMUM BELOW SLAB ON GRADE UNLESS NOTED OTHERWISE.
15. LOCATE ELECTRICAL EQUIPMENT AND BOXES IN ACCESSIBLE CEILING SPACE OR PROVIDE AN ACCESS PANEL FOR INACCESSIBLE CEILING SYSTEMS. ACCESS DOORS SHALL BE A MINIMUM DIMENSION OF 24" x 24" ACCESS DOOR LOCATIONS SHALL SUIT ACCESSIBILITY AND CONSTRUCTION CONDITIONS. ACCESS DOORS SHALL HAVE A FIRE RATING EQUAL TO THE CEILING ASSEMBLY IN WHICH THEY ARE INSTALLED.
16. COORDINATE REQUIRED ACCESS DOORS IN NON-ACCESSIBLE CEILING TO SUIT FIELD CONDITIONS. THE EXACT SIZES AND PHYSICAL LOCATIONS SHALL SUIT ACCESSIBILITY AND CONSTRUCTION CONDITIONS. ACCESS DOORS SHALL BE PROVIDED IN OTHER SECTIONS OF THE SPECIFICATIONS. ACCESS DOORS SHALL HAVE A FIRE RATING EQUAL TO THE CEILING ASSEMBLY IN WHICH THEY ARE INSTALLED.
17. WHENEVER A DISCREPANCY OF ANY SYSTEM AND/OR EQUIPMENT ARISES ON THE CONTRACT DOCUMENTS OR SPECIFICATIONS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL MATERIAL AND SERVICES REQUIRED BY THE STRICTEST CONDITIONS NOTED ON THE DRAWINGS OR SPECIFICATIONS TO ENSURE COMPLETE AND OPERABLE SYSTEMS AS REQUIRED BY THE OWNER AND ARCHITECT/ENGINEER.
18. STRAIGHT FEEDER BRANCH CIRCUIT AND CONDUIT RUNS SHALL BE PROVIDED WITH SUFFICIENT PULL BOXES OR JUNCTION BOXES TO LIMIT THE MAXIMUM LENGTH OF ANY SINGLE CABLE PULL TO 100 FEET. PULL BOXES SHALL BE SIZED PER CODE OR AS INDICATED ON DRAWINGS.
19. PANEL SCHEDULES SHALL BE REVISED TO REFLECT FINAL ROOM NAMES AND NUMBERS USING OWNER'S ROOM NAMES AND NUMBERS DESIGNATIONS. CONTRACTOR TO PROVIDE FINAL PANEL SCHEDULE TO EEOR AT COMPLETION OF PROJECT.
20. WHERE OUTLETS OCCUR AT TACKABLE WALL PANELS OR OTHER WALL FINISHES. PROVIDE EXTENSION RINGS AS REQUIRED SO THAT NO SPACE WILL EXIST BETWEEN DEVICE PLATE AND BACKBOX PER CALIFORNIA ELECTRICAL CODE 314.20 SEE ARCHITECTURAL ELEVATIONS FOR WALL FINISHES AND LOCATIONS.
21. COORDINATE LOCATIONS OF ALL SEISMIC SEPARATIONS.
22. ALL 120V POWER REQUIRED FOR THE FUNCTIONALITY OF ALL LOW VOLTAGE / TECHNOLOGY SYSTEMS SHALL BE A DEDICATED CIRCUIT AND ON EMERGENCY POWER WHEN AVAILABLE. CABLING CONTRACTOR SHALL COORDINATE ALL 120V POWER REQUIREMENTS AND LOCATIONS WITH ELECTRICAL CONTRACTOR FOR ALL EQUIPMENT.
23. SYSTEM WIRING AND EQUIPMENT INSTALLATION SHALL BE IN ACCORDANCE WITH GOOD ENGINEERING PRACTICES AS ESTABLISHED BY THE EIA AND THE CEC.
24. ALL AC POWER CABLES ARE TO BE INSTALLED WITH A MINIMUM OF 12 INCHES OF SEPARATION FROM TECHNOLOGY LOW VOLTAGE CABLES, INTERCOM, FIRE ALARM, SECURITY CABLES IN ANY PARALLEL OPEN WIRE RUN.
25. CONTRACTOR SHALL PROVIDE AND INSTALL ALL SLEEVES REQUIRED TO INSTALL COMMUNICATION CABLING THROUGH RATED WALLS. ALL TECHNOLOGY SYSTEM CONDUIT SLEEVES SHALL HAVE PROTECTIVE BUSHING ON BOTH ENDS, BE DEDICATED FOR TECHNOLOGY SYSTEMS ONLY AND SHALL NOT SHARE WITH OTHER BUILDING TRADES.
26. CONTRACTOR SHALL MAINTAIN WALL RATING WITH PROPER FIRE BLOCKING METHODS.
27. ALL CONDUCTORS SHALL BE UL LISTED, COPPER #12 MINIMUM SIZE, TYPE THHN/THWN THERMOPLASTIC, 600 VOLT, 75 DEGREES CELSIUS WET AND 90 DEGREES CELSIUS DRY, UNLESS NOTED OTHERWISE.
28. ALL CABLING SHALL BE ROUTED IN CONDUIT. SIZE CONDUIT AS REQUIRED TO ROUTE SYSTEMS WITH MAXIMUM 40% CABLE FILL. MINIMUM CONDUIT SIZE SHALL BE 3/4" INTERIOR & 1" EXTERIOR.
29. ALL CONDUIT STUB OUTS AND SLEEVES SHALL HAVE PROTECTIVE BUSHINGS TO PREVENT CABLE DAMAGE. BUSHING TO BE INSTALLED PRIOR TO CABLE INSTALLATION. CUTTING BUSHING AND INSTALLING AFTER CABLE IS INSTALLED WILL NOT BE ACCEPTED.

## UTILITY PENETRATIONS NOTE

UTILITY PENETRATIONS OF ANY KIND IN FIRE AND SMOKE PARTITIONS AND CEILING ASSEMBLIES SHALL BE FIRESTOPPED AND SEALED WITH AN APPROVED UL LISTED SYSTEM OR MATERIAL.

STEEL ELECTRICAL OUTLET BOXES WHICH DO NOT EXCEED 16 SQUARE INCHES IN AREA, NEED NOT BE PROTECTED IN ONE HOUR OR TWO HOUR FIRE RATED WALLS, PARTITIONS, CEILING, OR AREA SEPARATION UNLESS THEY:

1. OCCUR ON OPPOSITE SIDES OF THE WALL WITHIN 24 INCH HORIZONTAL DISTANCE OF ONE ANOTHER IN THIS CASE, ONLY ONE OUTLET BOX NEEDS TO BE PROTECTED BY AN APPROVED FIRESTOP MATERIAL OR DETAIL TO CORRECT THIS CONDITION.
2. OCCUR IN COMBINATION WITH OUTLET BOXES OF ANY SIZE SUCH THAT THE AGGREGATE AREA OF UNPROTECTED OUTLET BOXES EXCEEDS 100 SQUARE INCHES IN ANY 100 SQUARE FEET OF WALL AREA IN THIS CASE, ONLY A SUFFICIENT NUMBER OF OUTLET BOXES NEED TO BE PROTECTED BY AN APPROVED MATERIAL OR DETAIL TO DECREASE THE AGGREGATE AREA OF UNPROTECTED UTILITY BOXES TO LESS THAN 100 SQUARE FEET OF WALL.

STEEL ELECTRICAL OUTLET BOXES WHICH EXCEED 16 SQUARE INCHES IN AREA, AND ALL OTHER STEEL UTILITY OUTLET BOXES REGARDLESS OF SIZE, SHALL BE PROTECTED BY AN APPROVED FIRESTOP MATERIAL AS LISTED OR EQUAL.

FIRESTOPPING MATERIAL:
MPP-1 MOLDABLE PUTTY PADS

3M CONTRACTOR PRODUCTS
MINNEAPOLIS,
MN 3M TEST REPORT NO. 1167
DATED AUGUST 21, 1987

FLAMESAFE FSP 1077 FIRESTOP PADS
INTERNATIONAL PROTECTIVE COATINGS
OAKHURST, NJ

FSP FIRESTOP PUTTY PADS
HEVI-DUTY NELSON PRODUCTS
TULSA, OK

STEEL UTILITY BOXES WHICH EXCEED 100 SQUARE INCHES IN AREA SHALL BE PROTECTED BY ENCASEMENT.

UTILITY AND ELECTRICAL OUTLETS OR BOXES SHALL BE SECURELY FASTENED TO THE STUD FRAMING OF THE WALL, PARTITION OR CEILING ASSEMBLY. THE OPENING IN THE GYPSUM BOARD FACING SHALL BE CUT SO THAT THE CLEARANCE BETWEEN THE BOX AND THE GYPSUM BOARD DOES NOT EXCEED 1/8 INCH IN SMOKE WALLS OR PARTITIONS, THE 1/8 INCH CLEARANCE SHALL BE FILLED WITH AN APPROVED FIRE-RATED SEALANT.

## EQUIPMENT ANCHORAGE NOTES

MEP COMPONENT ANCHORAGE NOTES:

ALL MECHANICAL, PLUMBING AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC, SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTER 13, 26 AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (e.g. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRIC, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

1. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
2. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUND PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2019 CBC, SECTION 1617A.1.24, 1617A.1.25, AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., OSHPD OPM FOR2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO START OF AND DURING THE HANGING AND BRACING OF DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP☐ MD☐ PP☐ E☒ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES & DETAILS.

MP☐ MD☐ PP☐ E☐ OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM #) #_____.

## DRAWING INDEX


| SHEET | DESCRIPTION |
|---|---|
| E0.0 | ELECTRICAL SYMBOLS, NOTES, AND ABBREVIATIONS |
| E0.1 | ELECTRICAL TITLE 24 |
| E0.2 | ELECTRICAL TITLE 24 |
| E0.3 | ELECTRICAL TITLE 24 |
| E1.1 | ELECTRICAL SITE PLAN |
| E2.1 | ELECTRICAL FLOOR PLANS - BLDG "A" & BLDG "B" |
| E3.1 | LIGHTING PLANS - BLDG "A" & BLDG "B" |
| E4.1 | ELECTRICAL ROOF PLANS - BLDG "A" & BLDG "B" |
| E5.1 | ELECTRICAL SINGLE LINE DIAGRAM |
| E6.1 | ELECTRICAL SCHEDULES |
| E7.1 | ELECTRICAL DETAILS |


ELECTRICAL WORK IS ALSO SHOWN ON AQUATICS SHEETS. REFER TO SHEETS WITH THE PREFIXES "DP", "SP" AND "MR" FOR THE SCOPE OF THAT WORK.

## DIAGRAMMATIC NOTE

DRAWINGS ARE DIAGRAMMATIC AND DO NOT INDICATE DETAILED CONDUIT ROUTING OR LENGTHS REQUIRED FOR COMPLETE INSTALLATION. ROUTING OF RACEWAYS SHALL BE AT THE OPTION OF THE CONTRACTOR BUT SHALL BE IN STRICT COMPLIANCE WITH STRUCTURAL REQUIREMENTS, CONTRACT DOCUMENTS AND SPECS UNLESS OTHERWISE NOTED. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES. DO NOT SCALE THE ELECTRICAL DRAWINGS FOR LOCATIONS OF ANY ELECTRICAL, ARCHITECTURAL, STRUCTURAL AND/OR MECHANICAL ITEMS OR FEATURES. REFER TO ARCHITECTURAL AND STRUCTURAL CONTRACT DOCUMENTS FOR FEATURES, REFER TO ARCHITECTURAL AND STRUCTURAL CONTRACT DOCUMENTS FOR DIMENSIONS.

## DEVICE LOCATIONS NOTE

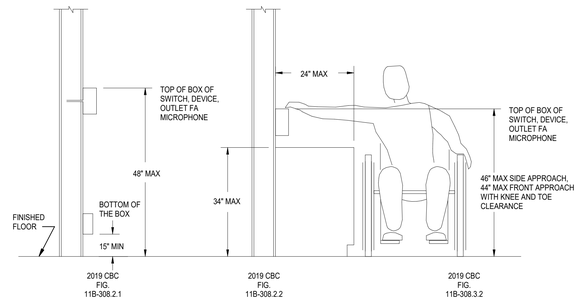
THE LOCATION OF ALL ELECTRICAL DEVICES AND EQUIPMENT SHALL BE COORDINATED WITH THE ARCHITECTURAL ELEVATIONS, DETAILS, OR SECTIONS PRIOR TO INSTALLATION. ALL ELECTRICAL DEVICES AND EQUIPMENT SHALL BE RECESSED IN WALLS UNLESS OTHERWISE NOTED. OUTLETS NOT INDICATED ON ARCHITECTURAL ELEVATIONS SHALL BE COORDINATED WITH THE ARCHITECT PRIOR TO ROUGH-IN, UNLESS OTHERWISE NOTED. ELECTRICAL DEVICES SHALL BE MOUNTED PER "ACCESSIBLE DEVICE MOUNTING HEIGHT" DETAIL.

COORDINATE WITH OTHER TRADES AS TO THE EXACT LOCATION OF THEIR RESPECTIVE EQUIPMENT SUPPLY POWER AND MAKE CONNECTION TO MOTORS AND EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS AS INDICATED ON THE SINGLE LINE DIAGRAM, ELECTRICAL DRAWINGS, AND DRAWINGS OF OTHER TRADES. REVIEW THE DRAWINGS OF OTHER TRADES FOR CONTROL DIAGRAMS, SIZE AND LOCATION OF EQUIPMENT, DISCONNECT SWITCHES, STARTERS, WIRING, CONTROLS, AND CONDUIT FOR MECHANICAL AND PLUMBING OPERATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING MANUFACTURER'S SHOP DRAWINGS PRIOR TO ROUGHING IN ALL CONDUIT TO THIS EQUIPMENT.

## STRUCTURAL NOTE

UNLESS SPECIFICALLY SHOWN ON THESE PLANS, STRUCTURAL MEMBERS SHALL NOT BE CUT, DRILLED, OR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER AND THE DIVISION OF THE STATE ARCHITECT.

## MOUNTING OVER OBSTRUCTION DETAIL




NOTE:

1. THIS DETAIL APPLIES TO MOUNTING OF ANY MECHANICAL AND ELECTRICAL DEVICE WHICH CONTAINS AN OPERABLE PART THAT IS ADJUSTABLE BY THE OCCUPANT. THIS DOES NOT APPLY TO SENSORS OR CONTROLS THAT ARE ONLY ADJUSTABLE THROUGH THE BUILDING AUTOMATION SYSTEM (IE: TEMPERATURE AND HUMIDITY SENSORS).

## UL LISTINGS NOTE

ALL ELECTRICAL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL BE LISTED BY UNDERWRITER'S LABORATIES (UL) AND BEAR THEIR LABEL OR LISTED AND CERTIFIED BY A NATIONALLY RECOGNIZED TESTING AUTHORITY.

ALL EQUIPMENT/DEVICES INSTALLED RECESSED IN FIRE RATED CEILINGS OR WALLS SHALL BE ENCLOSED WITH AN APPROVED UL LISTED ENCLOSURE CARRYING THE SAME FIRE RATING AS THE CEILING OR WALL.

PBK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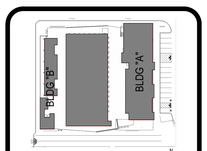
CENTENNIAL HIGH SCHOOL
AQUATICS CENTER

PROJECT ADDRESS:
1920 RIMPAU AVE.
CORONA, CA 92881

100% CONSTRUCTION DOCUMENTS

DSA APPL NO.: ##-##### DSA FILE NO.: ###




KEY PLAN NORTH: PLAN

Consultant

REGISTERED PROFESSIONAL ENGINEER RONALD C DE LA CRUZ No. E 23578 Exp. 09-30-2023 CIVIL STATE OF CALIFORNIA

FOR PLAN CHECK ONLY

Architect

CLIENT
CNUSD

| DATE | PROJECT NUMBER |
|---|---|
| 2/24/2023 | 220306 |

REVISIONS

| No. | Description | Date |
|---|---|---|
| | | |

100% CONSTRUCTION DOCUMENTS

ELECTRICAL SYMBOLS, NOTES, AND ABBREVIATIONS

E0.0

FILE PATH: Z:\Projects\...
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STATE OF CALIFORNIA
## Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | NRCC-ELC-E |
|---|---|
| *This document is used to demonstrate compliance with mandatory requirements in 130.5, for electrical systems in newly constructed nonresidential and hotel/motel occupancies and 160.6 and 160.9 for electrical systems in newly constructed multifamily occupancies. Additions and alterations to electrical service systems in nonresidential and hotel/motel occupancies will also use this document to demonstrate compliance per 141.0(a) or 141.0(b)2P for alterations. For multifamily addition or alterations compliance will be documented per 180.1(a) or 180.2 (b)4Bviii* | |
| **Project Name:** CENTENNIAL HIGH AQUATICS CENTER | **Report Page:** (Page 1 of 5) |
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### A. GENERAL INFORMATION

| | | | | | |
|---|---|---|---|---|---|
| 01 | Project Location (city) | CORONA | 02 | Climate Zone | 10 |
| | | | 03 | Occupancy Types Within Project: | School or Classroom |

### B. PROJECT SCOPE

*This table includes electrical systems that are within the scope of the permit application.*

| 01 | 02 | 03 | 04 | 05 | 06 | 07 |
|---|---|---|---|---|---|---|
| Electrical Service Designation/ Description | Scope of Work[1] | Rating[2] (kVA) | Utility Provided Metering System Exception to 130.5(a)/ 160.6(a)[3] | System subject to CA Elec Code Article 517 Exception to 130.5(a)and (b) | Demand Response Controls | Provides power to dwelling units/common living areas only in multifamily occupancy |
| E1.1-Electrical Site Plan | New electrical service equipment and meter | 90 | ☐ | ☐ | Where required, demand response controls must be specified which are capable of receiving and automatically responding to at least one standards based messaging protocol which enables demand response after receiving a demand response signal. Sections 120.2/ 160.3, 130.1/ 160.5, and 130.3/ 160.5, and mechanical, indoor lighting, and sign lighting Certificate of Compliance documents will indicate when demand response controls are required. | ☐ |

[1] *FOOTNOTES: Adding only new feeders and branch circuits triggers Voltage Drop 130.5(c)/160.6(c), no other requirements from 130.5/160.6 are required.*
[2] *If common use areas in a multifamily are submetered, rating is for submeter size serving common use areas.*
[3] *Applicable if the utility company is providing a metering system that indicates instantaneous kW demand and kWh for a utility-defined period.*

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STATE OF CALIFORNIA
## Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | NRCC-ELC-E |
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### C. COMPLIANCE RESULTS

*Results in this table are automatically calculated from data input and calculations in Tables F through J. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.*

| 01 | | 02 | | 03 | | 04 | 05 | 06 |
|---|---|---|---|---|---|---|---|---|
| Service Electrical Metering 130.5(a)/ 160.6(a) (See Table F) | AND | Separation for Monitoring 130.5(b)/ 160.6(b) (See Table G) | AND | Voltage Drop 130.5(c)/ 160.6(c) (See Table H) | AND | Controlled Receptacles 130.5(d)/ 160.6(d) (See Table I) | Electric Ready 160.9 (See Table J) | **Compliance Results** |
| Yes | AND | Yes | AND | Yes | AND | Yes | | COMPLIES |

### D. EXCEPTIONAL CONDITIONS

*This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.*

### E. ADDITIONAL REMARKS

*This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.*

### F. SERVICE ELECTRICAL METERING

*This table includes new or replacement electrical service systems OR equipment to demonstrate compliance with 130.5(a) / 160.6(a). For multifamily occupancies, submetered systems that provide power to common use areas must meet the following metering requirements. Submetered systems providing power to dwelling units do not.*

| 01 | 02 | 03 | | | | 04 | 05 | |
|---|---|---|---|---|---|---|---|---|
| | | Required Metering Capabilities per Table 130.5-A | | | | | Field Inspector | |
| Electrical Service Designation/ Description | Rating[1] (kVA) | Instantaneous Demand (kW) | Historical Peak Demand (kW) | Tracking kWh for user-defined period | kWh per rate period | Location of Requirements in Construction Documents | Pass | Fail |
| E1.1-Electrical Site Plan | 90 | ☒ | ☐ | ☒ | ☐ | Customer side digital meter installed on panel HA1 | ☐ | ☐ |

[1] *FOOTNOTES: If common use areas in a multifamily are submetered, rating is for submeter size serving common use areas.*

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### G. SEPARATION OF ELECTRICAL CIRCUITS FOR ENERGY MONITORING

*This table includes entirely new or complete replacement electrical power distribution systems to demonstrate compliance with 130.5(b)/ 160.6(b). Any load types that are not included in the service do not need to be shown. For multifamily occupancies, submetered systems that provide power to dwelling units do not need to meet these separation requirements and therefore load types on those submetered systems also do not need to be shown.*

| 01 | 02 | 03 | 04 | 05 | |
|---|---|---|---|---|---|
| | | | | Field Inspector | |
| Load Type per Table 130.5-B[1] | Minimum Required Separation of Load per Table 130.5-B | Compliance Method[2] | Location of Requirements in Construction Documents | Pass | Fail |
| **E1.1-Electrical Site Plan** | | | | | |
| Other non-HVAC loads and appliances greater than or equal to 25kVA | All loads in aggregate | Method 3: Branch circuits serve load types individually & provisions for adding future branch curcuit monitoring | E5.1-Single Line Diagram | ☐ | ☐ |

** NOTES: If "Other*" is selected under Compliance Method above, please indicate how compliance has been achieved in the space provided below.*

[1] *FOOTNOTES: For each separate load type, up to 10% of the connected load may be of any type.*
[2] *Method 1: Switchboards/ motor control centers/ panelboard loads disaggregated for each load type.*
*Method 2: Switchboards/ motor control centers/ panelboard supply other distribution equipment with loads disaggregated for each load type.*
*Method 3: Branch circuits serve load types individually and provisions for adding future branch circuit monitoring.*
*Method 4: Complete metering system measures and reports loads by type.*
*See Chapter 8 of the Nonresidential Compliance Manual for more detail on Compliance Methods.*

### H. VOLTAGE DROP

*This table includes entirely new or complete replacement electrical power distribution systems, or alterations that add, modify or replace both feeders and branch circuits to demonstrate compliance with 130.5(c)/ 160.6(c). For alterations, only the altered circuits must demonstrate compliance per 141.0(b)2Piii/ 180.2(b)4Bviic.*

| 01 | 02 | | | 03 | 04 | 05 | |
|---|---|---|---|---|---|---|---|
| | | | | | | Field Inspector | |
| Electrical Service Designation/Description | Combined Voltage Drop on Installed Feeder/Branch Circuit Conductors Compliance Method | | | Location of Voltage Drop Calculations[1] | Sheet Number for Voltage Drop Calculations in Construction Documents | Pass | Fail |
| E1.1-Electrical Site Plan | ☒ | Voltage drop less than 5% | ☐ | Permitted by CA Elec Code (Exception to 130.5(c))* | In construction documents | E5.1-Single Line Diagram | ☐ | ☐ |

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### H. VOLTAGE DROP

** NOTES: If "Permitted by CA Elec Code *" is selected under Compliance Method above, please indicate where the exception applies in the space provided below.*

[1] *FOOTNOTES: Voltage drop calculations may be attached to the permit application outside the construction documents if allowed by the Authority Having Jurisdiction. Select "attached" if applicable. If calculations will be the responsibility of the installing contractor, select "Contractor Responsible".*

### I. CIRCUIT CONTROLS FOR 120-VOLT RECEPTACLES AND CONTROLLED RECEPTACLES

*This table includes entirely new or complete replacement electrical power distribution systems to demonstrate compliance with 130.5(d)/ 160.6(d).. Both controlled and uncontrolled receptacles must be provided in office areas, lobbies, conference rooms, kitchen areas in office spaces, copy rooms and hotel/motel guest rooms.*

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | |
|---|---|---|---|---|---|---|---|
| | | | | | | Field Inspector | |
| Room name or Description | Location/ Type of Controlled Receptacles[1] | Shut-Off Controls | Demand Responsive Controls | Permanent Durable Marking Will be Used | Location of Requirements in Construction Documents | Pass | Fail |
| E2.1-See office areas | Within 6ft of uncontrolled receptacle | Occupancy Sensor | Included w capabilities per 110.12(e) | ☒ | E2.1 | ☐ | ☐ |

** NOTES: If "Other*" is selected under Shut-Off Controls above, please indicate how compliance has been achieved in the space provided below.*

[1] *FOOTNOTES: Receptacles dedicated to refrigerators and water dispensers in kitchens, located a minimum of 6ft above the floor specifically for clocks, network copiers, fax machines, A/V and data equipment other than personal computers in copy rooms, circuits rated more than 20 Amps, or connected to a UPS that are intended to be in continuous use and are marked to differentiate them from other receptacles or circuits are excepted from the requirements. .*

### K. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

*Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online*

| Form/Title |
|---|
| NRCI-ELC-E - Must be submitted for all buildings |

### L. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

*There are no forms required for this project.*

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CALIFORNIA ENERGY COMMISSION

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### DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

**I certify that this Certificate of Compliance documentation is accurate and complete.**

| Documentation Author Name: | Documentation Author Signature: |
|---|---|
| Nick Weil | |
| Company: Leaf Engineers | Signature Date: |
| Address: | CEA/ HERS Certification Identification (if applicable): |
| City/State/Zip: | Phone: |

### RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

| Responsible Designer Name: | Responsible Designer Signature: |
|---|---|
| Nick Weil | |
| Company: Leaf Engineers | Date Signed: |
| Address: | License: |
| City/State/Zip: | Phone: |

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STATE OF CALIFORNIA
## Indoor Lighting
CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | NRCC-LTI-E |
|---|---|
| *This document is used to demonstrate compliance with requirements in 110.9, 110.12(c), 130.0, 130.1, 140.6 and 141.0(b)2 for indoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e) and 180.2(b)4 for indoor lighting scopes using the prescriptive path for multifamily occupancies. Multifamily includes dormitory and senior living facilities.* | |
| **Project Name:** CENTENNIAL HIGH AQUATICS CENTER | **Report Page:** (Page 1 of 7) |
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### A. GENERAL INFORMATION

| | | | | | |
|---|---|---|---|---|---|
| 01 | Project Location (city) | CORONA | 04 | Total Conditioned Floor Area (ft²) | 3,473 |
| 02 | Climate Zone | 10 | 05 | Total Unconditioned Floor Area (ft²) | 0 |
| 03 | Occupancy Types Within Project (select all that apply): | | 06 | # of Stories (Habitable Above Grade) | 1 |
| ● School or Classroom | | | | | |

### B. PROJECT SCOPE

*This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.6 / 170.2(e) or 141.0(b)2 / 180.2(b)4 for alterations.*

| Scope of Work | Conditioned Spaces | | Unconditioned Spaces | |
|---|---|---|---|---|
| 01 | 02 | 03 | 04 | 05 |
| My Project Consists of (check all that apply): | Calculation Method | Area (ft²) | Calculation Method | Area (ft²) |
| ☒ New Lighting System | Complete Building Method | 3473 | N/A | 0 |
| ☐ New Lighting System - Parking Garage | N/A | 0 | N/A | 0 |
| **Total Area of Work (ft²)** | 3473 | | | |

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STATE OF CALIFORNIA
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### C. COMPLIANCE RESULTS

*If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.*

| *Lighting in conditioned and unconditioned spaces must not be combined for compliance per 140.6(b)1 / 170.2(e)* | Allowed Lighting Power per 140.6(b) / 170.2(e) (Watts) | | | | | | Adjusted Lighting Power per 140.6(a) / 170.2(e) (Watts) | | | | Compliance Results |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 01 | 02 | 03 | 04 | | 05 | 06 | 07 | | 08 | 09 |
| | Complete Building 140.6(c)1 (See Table I) | Area Category 140.6(c)2 / 170.2(e)4 (See Table I) | Area Category Additional 140.6(c)2G / 170.2(e)4Av ( +) (See Table J) | Tailored 140.6(c)3 / 170.2(e)4B ( +) (See Table K) | | **Total Allowed** (Watts) | Total Designed (Watts) (See Table F) | Adjustments: PAF Lighting Control Credits 140.6(a)2 / 170.2(e)1B (-) (See Table P) | | **Total Adjusted** (Watts) *includes Adjustments | **05 must be >= 08 140.6 / 170.2(e)** |
| **Conditioned** | 346.8 | | | | = | 346.8 | 337.5 | | = | 337.5 | COMPLIES |
| **Unconditioned** | | | | | = | | | | = | | |
| **Controls Compliance (See Table H for Details)** | | | | | | | | | | | COMPLIES |
| **Rated Power Reduction Compliance (See Table Q for Details)** | | | | | | | | | | | |

### D. EXCEPTIONAL CONDITIONS

*This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.*

### E. ADDITIONAL REMARKS

*This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.*

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### F. INDOOR LIGHTING FIXTURE SCHEDULE

*This table includes all planned permanent and portable lighting other than dwelling unit/ hotel/ motel room lighting. Multifamily dwelling unit and hotel/motel room lighting is documented in Table T. If using Table T to document lighting in multifamily common use areas providing shared provisions for living, eating, cooking or sanitation, those luminaires are not included here.*

**Designed Wattage: Conditioned Spaces**

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Field Inspector | |
| Name or Item Tag | Complete Luminaire Description | Modular (Track) Fixture | Small Aperture & Color Change[1] | Watts per luminaire[2] | How is Wattage determined | Total Number of Luminaires | Excluded per 140.6(a)3 / 170.2(e)2C | Design Watts | Pass | Fail |
| A2 | FLUSH 2x4 | No | NA | 22.5 | Mfr. Spec | 15 | No | 337.5 | ☐ | ☐ |
| | | | | | | | **Total Designed Watts: CONDITIONED SPACES** | 337.5 | | |

[1] *FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per 140.6(a)4B / 170.2(e)2D is adjusted to be 75% /80% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.*
[2] *Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b). Wattage used must be the maximum rated for the luminaire, not the lamp.*

### G. MODULAR LIGHTING SYSTEMS

*This section does not apply to this project.*

### H. INDOOR LIGHTING CONTROLS (Not including PAFs)

*This table includes lighting controls for conditioned and unconditioned spaces.*

**Building Level Controls**

| 01 | 02 | 03 | |
|---|---|---|---|
| | | Field Inspector | |
| Mandatory Demand Response 110.12(c) | Shut-off controls 130.1(c) / 160.5(b)4C | Pass | Fail |
| NA < 4,000W subject to multilevel | See Area/Space Level Controls | ☐ | ☐ |

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### H. INDOOR LIGHTING CONTROLS (Not including PAFs)

**Area Level Controls**

| 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Field Inspector | |
| Area Description | Complete Building or Area Category Primary Function Area | Manual Area Controls 130.1(a) / 160.5(b)4A | Multi-Level Controls 130.1(b) / 160.5(b)4B | Shut-Off Controls 130.1(c) // 160.5(b)4C | Primary/Sky lit Daylighting 130.1(d) / 160.5(b)4D | Secondary Daylighting 130.1(d) / 160.5(b)4D | Interlocked Systems 140.6(a)1/ 170.2(e)2A | Pass | Fail |
| COACHES OFFICE | School or Classroom | Readily Accessible | Dimmer | Occupancy Sensor | NA: General Ltg < 120W NA: Not daylit zone | NA: General Ltg < 120W NA: Not daylit zone | No | ☐ | ☐ |
| LOCKER ROOM BOYS | School or Classroom | Readily Accessible | Dimmer | Occupancy Sensor | NA: Not daylit zone | NA: Not daylit zone | No | ☐ | ☐ |
| LOCKER ROOM GIRLS | School or Classroom | Readily Accessible | Dimmer | Occupancy Sensor | NA: Not daylit zone | NA: Not daylit zone | No | ☐ | ☐ |
| | | | | | | | | 13 | |
| | | | | | | | | Plan Sheet Showing Daylit Zones: | |

### I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

*Each area complying using the Complete Building or Area Category Methods per 140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per 140.6(c) or adjustments per 140.6(a) are being used .*

**Conditioned Spaces**

| 01 | 02 | 03 | 04 | 05 | 06 | |
|---|---|---|---|---|---|---|
| | | | | | Additional Allowance / Adjustment | |
| Area Description | Complete Building or Area Category Primary Function Area | Allowed Density (W/ft²) | Area (ft²) | Allowed Wattage (Watts) | Area Category | PAF |
| COACHES OFFICE | School or Classroom | 0.6 | 154 | 92.4 | No | No |
| LOCKER ROOM BOYS | School or Classroom | 0.6 | 212 | 127.2 | No | No |
| LOCKER ROOM GIRLS | School or Classroom | 0.6 | 212 | 127.2 | No | No |
| | | | **TOTALS:** | 578 | 346.8 | See Tables J, or P for detail |

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**CENTENNIAL HIGH SCHOOL AQUATICS CENTER**

PROJECT ADDRESS:
1820 RIMPAU AVE.
CORONA, CA 92881

100% CONSTRUCTION DOCUMENTS

DSA APPL NO.: ##-##### DSA FILE NO.: ###




KEY PLAN
NORTH: PLAN

Consultant
REGISTERED PROFESSIONAL ENGINEER RONALD C DELA CRUZ No. E 23570 Exp. 09-30-2023 CIVIL STATE OF CALIFORNIA
FOR PLAN CHECK ONLY

Architect

CLIENT
CNUSD

DATE 2/24/2023
PROJECT NUMBER 220306

REVISIONS

| No. | Description | Date |
|---|---|---|

100% CONSTRUCTION DOCUMENTS

ELECTRICAL TITLE 24

E0.1

STATE OF CALIFORNIA
## Indoor Lighting
CALIFORNIA ENERGY COMMISSION

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**J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM**

*This section does not apply to this project.*

**K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE**

*This section does not apply to this project.*

**L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY**

*This section does not apply to this project.*

**M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING**

*This section does not apply to this project.*

**N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE /SPECIAL EFFECTS**

*This section does not apply to this project.*

**O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE**

*This section does not apply to this project.*

**P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))**

*This section does not apply to this project.*

**Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTERATIONS**

*This section does not apply to this project.*

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**R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS**

*This section does not apply to this project.*

**S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)**

*This section does not apply to this project.*

**T. DWELLING UNIT LIGHTING**

*This section does not apply to this project.*

**U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION**

*Selections have been made based on information provided in this document. If any selections have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online*

| Form/Title |
|---|
| NRCI-LTI-E - Must be submitted for all buildings |

**V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE**

*Selections have been made based on information provided in this document. If any selections have been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "-A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html*

| Form/Title | Systems/Spaces To Be Field Verified |
|---|---|
| NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls. | COACHES OFFICE; LOCKER ROOM BOYS; LOCKER ROOM GIRLS |

Registration Number:

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Generated Date/Time:

Report Version: 2022.0.000
Schema Version: rev 20220101

Documentation Software: Energy Code Ace

Compliance ID: 103097-0423-0004
Report Generated: 2023-04-23 00:39:22

STATE OF CALIFORNIA
## Indoor Lighting
CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | NRCC-LTI-E |
|---|---|---|
| **Project Name:** CENTENNIAL HIGH AQUATICS CENTER | **Report Page:** | **(Page 7 of 7)** |
| **Project Address:** | **Date Prepared:** | 2023-04-23T03:39:21-04:00 |

**DOCUMENTATION AUTHOR'S DECLARATION STATEMENT**

**I certify that this Certificate of Compliance documentation is accurate and complete.**

| Documentation Author Name: | Documentation Author Signature: |
|---|---|
| Nick Weil | |
| Company: | Signature Date: |
| Leaf Engineers | |
| Address: | CEA/ HERS Certification Identification (if applicable): |
| City/State/Zip: | Phone: |

**RESPONSIBLE PERSON'S DECLARATION STATEMENT**

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

| Responsible Designer Name: | Responsible Designer Signature: |
|---|---|
| Nick Weil | |
| Company: | Date Signed: |
| Leaf Engineers | |
| Address: | License: |
| City/State/Zip: | Phone: |

Registration Number:

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Generated Date/Time:

Report Version: 2022.0.000
Schema Version: rev 20220101

Documentation Software: Energy Code Ace

Compliance ID: 103097-0423-0004
Report Generated: 2023-04-23 00:39:22

STATE OF CALIFORNIA
## Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | NRCC-LTO-E |
|---|---|---|
| *This document is used to demonstrate compliance with requirements in 110.9, 130.0, 130.2, 140.7, and 141.0(b)2L for outdoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e)6, 180.1(a) and 180.2(b)4Bv for outdoor lighting scopes using the prescriptive path for multifamily and mixed-use occupancies. Multifamily includes dormitory and senior living facilities.* | | |
| **Project Name:** CENTENNIAL HIGH AQUATICS CENTER | **Report Page:** | **(Page 1 of 8)** |
| **Project Address:** | **Date Prepared:** | 2023-04-23T03:22:10-04:00 |

**A. GENERAL INFORMATION**

| | | | | | |
|---|---|---|---|---|---|
| 01 | Project Location (city) | CORONA | 04 | Total Illuminated Hardscape Area (ft²) | 45000 |
| 02 | Climate Zone | 10 | | | |
| 03 | Outdoor Lighting Zone per Title 24 Part 1 | 10.114 or as designated by Authority Having Jurisdiction (AHJ): | | | |
| ☐ | LZ-0: Very Low - Undeveloped Parkland | ☐ LZ-2: Moderate - Urban Clusters | ☐ LZ-4: High - Must be reviewed by CA Energy Commission for Approval | | |
| ☐ | LZ-1: Low - Rural Areas | ☒ LZ-3: Moderately High - Urban Areas | | | |
| 05 | Occupancy Types within Project | | | | |
| • School or Classroom | | | | | |

**B. PROJECT SCOPE**

*This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.7 / 170.2(e)6 or 141.0(b)2L / 180.2(b)4Bv for alterations.*

**My Project Consists of:**

| 01 | 02 | |
|---|---|---|
| ☒ New Lighting System | Must Comply with Allowances from 140.7 / 170.2(e)6 | |
| ☐ Altered Lighting System | Is your alteration increasing the connected lighting load (Watts)? | ○ Yes ○ No |
| 03 | 04 | 05 |
| % of Existing Luminaires Being Altered[1] | Sum Total of Luminaires Being Added or Altered | Calculation Method |
| ☐ < 10% ☐ >= 10% and < 50% ☐ >= 50% | | |

***Please proceed to Table F. Outdoor Lighting Fixture Schedule to define the project's luminaires.***

*[1] FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100.*

Registration Number:

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Generated Date/Time:

Report Version: 2022.0.000
Schema Version: rev 20220101

Documentation Software: Energy Code Ace

Compliance ID: 103097-0423-0002
Report Generated: 2023-04-23 00:22:11

STATE OF CALIFORNIA
## Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | NRCC-LTO-E |
|---|---|---|
| **Project Name:** CENTENNIAL HIGH AQUATICS CENTER | **Report Page:** | **(Page 2 of 8)** |
| | **Date Prepared:** | 2023-04-23T03:22:10-04:00 |

**C. COMPLIANCE RESULTS**

*Results in this table are automatically calculated from data input and calculations in Tables F through N. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.*

| Calculations of Total Allowed Lighting Power (Watts) 140.7 / 170.2(e)6 or 141.0(b)2L / 180.2(b)4Bv | | | | | | | | | | | | Compliance Results | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 01 | | 02 | | 03 | | 04 | | 05 | | 06 | | 07 | | 08 | 09 |
| General Hardscape Allowance 140.7(d)1 / 170.2(e)6 (See Table I) | + | Per Application 140.7(d)2 / 170.2(e)6 (See Table J) | + | Sales Frontage 140.7(d)2 (See Table K) | + | Ornamental 140.7(d)2 / 170.2(e)6 (See Table L) | + | Per Specific Area 140.7(d)2 / 170.2(e)6 (See Table M) | OR | Existing Power Allowance 141.0(b)2L / 180.2(b)4Bv (See Table N) | = | **Total Allowed** (Watts) | ≥ | **Total Actual** (Watts) | **07 must be >= 08** |
| 1,065 | + | --- | + | --- | + | --- | + | --- | OR | --- | = | 1,065 | ≥ | 50 | COMPLIES |
| **Shielding Compliance (See Table G for Details)** | | | | | | | | | | | | | | | COMPLIES |
| **Controls Compliance (See Table H for Details)** | | | | | | | | | | | | | | | COMPLIES |

**D. EXCEPTIONAL CONDITIONS**

*This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.*

**E. ADDITIONAL REMARKS**

*This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.*

Registration Number:

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Generated Date/Time:

Report Version: 2022.0.000
Schema Version: rev 20220101

Documentation Software: Energy Code Ace

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STATE OF CALIFORNIA
## Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | NRCC-LTO-E |
|---|---|---|
| **Project Name:** CENTENNIAL HIGH AQUATICS CENTER | **Report Page:** | **(Page 3 of 8)** |
| | **Date Prepared:** | 2023-04-23T03:22:10-04:00 |

**F. OUTDOOR LIGHTING FIXTURE SCHEDULE**

*For new or altered lighting systems demonstrating compliance with 140.7 / 170.2(e)6 all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per 141.0(b)2L only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included). Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.*

**Designed Wattage:**

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Name or Item Tag | Complete Luminaire Description | Watts per luminaire[1, 2] | How is Wattage determined | Total Number Luminaires[2] | Luminaire Status[3] | Excluded per 140.7(a) / 170.2(e)6A | Design Watts | Cutoff Req. > 6,200 initial lumen output 130.2(b) / 160.5(c)[1,4] | Field Inspector | |
| | | | | | | | | | Pass | Fail |
| F2 | HIGH OUTPUT WALL SCONCE ☐ Linear | 10 | Mfr. Spec | 5 | New | ☐ | 50 | Provided | ☐ | ☐ |
| | | | | | | **Total Design Watts:** | 50 | | | |

* NOTES: Selections with a * require a note in the space below explaining how compliance is achieved.
*EX: Luminaire is lighting a statue; EXCEPTION 2 to 130.2(b)*

*[1] FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b)*
*[2] For linear luminaires, wattage should be indicated as W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires.*
*[3] Select "New" for new luminaires in a new outdoor lighting project, or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of the project scope.*
*[4] Compliance with mandatory shielding requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by 130.2(b)/ 160.5(c)*

Registration Number:

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Generated Date/Time:

Report Version: 2022.0.000
Schema Version: rev 20220101

Documentation Software: Energy Code Ace

Compliance ID: 103097-0423-0002
Report Generated: 2023-04-23 00:22:11

STATE OF CALIFORNIA
## Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | NRCC-LTO-E |
|---|---|---|
| **Project Name:** CENTENNIAL HIGH AQUATICS CENTER | **Report Page:** | **(Page 4 of 8)** |
| | **Date Prepared:** | 2023-04-23T03:22:10-04:00 |

**G. SHIELDING REQUIREMENTS (BUG)**

*This table includes fixtures of >=6,200 initial lumens indicated on Table F as needing to comply with Shielding Requirements. Maximum lumens can be found in Title 24, Part 11, Section 5.106.8.*

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Backlight Rating[2] | | | Uplight Rating[2] | | | Glare Rating (Lumens)[2] | | | Field Inspector | |
| Name or Item Tag | Complete Luminaire Description | Mounting Height[1] | Max Allowable Backlight Rating[3] | Backlight Rating Per Design | Lighting type | Max Allowable Uplight Rating[3] | Uplight Rating Per Design | Mounting Height[1] | Max Allowable Glare Rating[3] | Glare Rating Per Design | Pass | Fail |
| F2 | HIGH OUTPUT WALL SCONCE | 2 MH from property line | No Limit | B2 | All other outdoor lighting, including decorative | U3 | U3 | 2 MH from property line | G3 | G3 | ☐ | ☐ |

*[1] FOOTNOTES: Mounting Height is labeled MH in this table.*
*[2] Authority Having Jurisdiction may ask for Luminaire cut sheets or other documentation to confirm luminaire type, uplight ratings and glare ratings used for compliance per 130.2(b)/ 160.5(c)*
*[3] BUG ratings with a lower number than the 'Max Allowable' are compliant. Ex. If Max Allowable is Bug Rating B4, then B0, B1, B2 and B3 are all compliant.*

Registration Number:

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Generated Date/Time:

Report Version: 2022.0.000
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STATE OF CALIFORNIA
## Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | NRCC-LTO-E |
|---|---|---|
| **Project Name:** CENTENNIAL HIGH AQUATICS CENTER | **Report Page:** | **(Page 5 of 8)** |
| | **Date Prepared:** | 2023-04-23T03:22:10-04:00 |

**H. OUTDOOR LIGHTING CONTROLS**

*This table demonstrates compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie untouched) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application.*
*Outdoor lighting for nonresidential buildings, parking garages and common service areas in multifamily buildings must be documented separately from outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit*

**Mandatory Controls for Nonresidential Occupancies, Parking Garages & Common Areas in Multifamily Buildings**

| 01 | 02 | 03 | 04 | 05 | |
|---|---|---|---|---|---|
| Area Description | Shut-Off 130.2(c)1 / 160.5(c) | Auto-Schedule 130.2(c)2 / 160.5(c) | Motion Sensor 130.2(c)3 / 160.5(c) | Field Inspector | |
| | | | | Pass | Fail |
| POOL DECK: "F2" | Astronomical Timer | Provided | NA: Each Luminaire < 40 Watts | ☐ | ☐ |

*[1] FOOTNOTE: Text has been abbreviated, please refer to Table 160.5-A to confirm compliance with the specific light source technologies listed.*
*[2] Authority having jurisdiction may ask for cutsheets or other documentation to confirm compliance of light source.*
*[3] Recessed luminaires marked for use in fire-rated installations, and recessed luminaires installed in non-insulated ceilings are excepted from ii and iii.*

Registration Number:

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Generated Date/Time:

Report Version: 2022.0.000
Schema Version: rev 20220101

Documentation Software: Energy Code Ace

Compliance ID: 103097-0423-0002
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STATE OF CALIFORNIA
## Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | NRCC-LTO-E |
|---|---|---|
| **Project Name:** CENTENNIAL HIGH AQUATICS CENTER | **Report Page:** | **(Page 6 of 8)** |
| | **Date Prepared:** | 2023-04-23T03:22:10-04:00 |

**I. LIGHTING POWER ALLOWANCE (per 140.7 / 170.2(e))**

*This table includes areas using allowance calculations per 140.7 / 170.2(e). General Hardscape Allowance is per Table 140.7-A/Table 170.2-R while "Use it or lose it" Allowances are per Table 140.7-B /Table 170.2-S. Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance.*
*Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.*

| 01 | | | | |
|---|---|---|---|---|
| "Use it or lose it" Allowance (select all that apply) (select all that apply) | | | | |
| ☒ General Hardscape Allowance Table I (below) | ☐ Per Application Table J | ☐ Sales Frontage Table K | ☐ Ornamental Table L | ☐ Per Specific Area Table M |

Calculated General Hardscape Lighting Power Allowance per Table 140.7-A for Nonresidential & Hotel/Motel

| 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 |
|---|---|---|---|---|---|---|---|
| Area Description | Area Wattage Allowance (AWA) | | | Linear Wattage Allowance (LWA) | | | Total General AWA + LWA (Watts) |
| | Illuminated Area (ft²) | Allowed Density (W/ft²) | Area Allowance (Watts) | Perimeter Length (lf) | Allowed Density (W/lf) | Linear Allowance (Watts) | |
| POOL DECK | 35000 | 0.021 | 735 | 400 | 0.2 | 80 | 815 |
| **Initial Wattage Allowance for Entire Site (Watts):** | | | | | | | 250 |
| **Instances of Initial Wattage Allowance (LZ 0 only)[1]** | | | | | | | |
| **Total General Hardscape Allowance (Watts):** | | | | | | | 1065 |

**J. LIGHTING ALLOWANCE: PER APPLICATION**

*This section does not apply to this project.*

**K. LIGHTING ALLOWANCE: SALES FRONTAGE**

*This section does not apply to this project.*

**L. LIGHTING ALLOWANCE: ORNAMENTAL**

*This section does not apply to this project.*

Registration Number:

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

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PBK
ARCHITECT PBK Architects, Inc.
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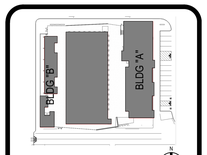
CONSULTANT LEAF Engineers
LEAF ENGINEERS
8163 Rochester Avenue, Suite 100
Rancho Cucamonga, CA 91730
909.987.0909
leafengineers.com

CENTENNIAL HIGH SCHOOL
AQUATICS CENTER

PROJECT ADDRESS:
1820 RIMPAU AVE.
CORONA, CA 92881

100% CONSTRUCTION DOCUMENTS

DSA APPL NO.: ##### DSA FILE NO.: ###




KEY PLAN
NORTH: PLAN

Consultant

REGISTERED PROFESSIONAL ENGINEER
DONALD C. DEL A. DUFFER
No. E 23576
Ex. 12-31-2022
CIVIL
STATE OF CALIFORNIA
FOR PLAN CHECK ONLY

Architect

CLIENT
CNUSD

DATE
2/24/2023

PROJECT NUMBER
220306

REVISIONS

| No. | Description | Date |
|---|---|---|
| | | |

100% CONSTRUCTION DOCUMENTS

ELECTRICAL TITLE 24

E0.2

STATE OF CALIFORNIA

## Outdoor Lighting

CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | NRCC-LTO-E |
|---|---|---|
| **Project Name:** CENTENNIAL HIGH AQUATICS CENTER | **Report Page:** | **(Page 7 of 8)** |
| | **Date Prepared:** | 2023-04-23T03:22:10-04:00 |

### M. LIGHTING ALLOWANCE: PER SPECIFIC AREA

*This section does not apply to this project.*

### N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)

*This section does not apply to this project.*

### O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

*Selections have been made based on information provided in this document. If any selection has been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online*

| Form/Title |
|---|
| NRCI-LTO-E - Must be submitted for all buildings |

### P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

*Selections have been made based on information provided in this document. If any selection has been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html*

| Form/Title | Systems/Spaces To Be Field Verified |
|---|---|
| NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls are added to <= 20 luminaires. | POOL DECK: "F2" |

Registration Number:

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Generated Date/Time:

Report Version: 2022.0.000
Schema Version: rev 20220101

Documentation Software: Energy Code Ace

Compliance ID: 103097-0423-0002
Report Generated: 2023-04-23 00:22:11

STATE OF CALIFORNIA

Outdoor Lighting

CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | NRCC-LTO-E |
|---|---|---|
| **Project Name:** CENTENNIAL HIGH AQUATICS CENTER | **Report Page:** | **(Page 8 of 8)** |
| **Project Address:** | **Date Prepared:** | 2023-04-23T03:22:10-04:00 |

### DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

**I certify that this Certificate of Compliance documentation is accurate and complete.**

| Documentation Author Name: | Documentation Author Signature: |
|---|---|
| Nick Weil | |
| Company: Leaf Engineers | Signature Date: |
| Address: | CEA/ HERS Certification Identification (if applicable): |
| City/State/Zip: | Phone: |

### RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

| Responsible Designer Name: | Responsible Designer Signature: |
|---|---|
| Nick Weil | |
| Company: Leaf Engineers | Date Signed: |
| Address: | License: |
| City/State/Zip: | Phone: |

Registration Number:

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Generated Date/Time:

Report Version: 2022.0.000
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Compliance ID: 103097-0423-0002
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PBK

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PBK.com

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CONSULTANT LEAF Engineers

LEAF ENGINEERS

**8163 Rochester Avenue, Suite 100**
**Rancho Cucamonga, CA 91730**
**909.987-0909**
**leafengineers.com**

# CENTENNIAL HIGH SCHOOL AQUATICS CENTER

**PROJECT ADDRESS:**
1820 RIMPAU AVE.
CORONA, CA 92881

**100% CONSTRUCTION DOCUMENTS**

DSA APPL NO.: ##-##### DSA FILE NO.: ###




KEY PLAN

NORTH: PLAN

Consultant

REGISTERED PROFESSIONAL ENGINEER
RONALD C DE LA CRUZ
No. E 23578
Exp. 09-30-2023
STATE OF CALIFORNIA

FOR PLAN CHECK ONLY

Architect

CLIENT
CNUSD

| DATE | PROJECT NUMBER |
|---|---|
| 2/24/2023 | 220306 |

REVISIONS

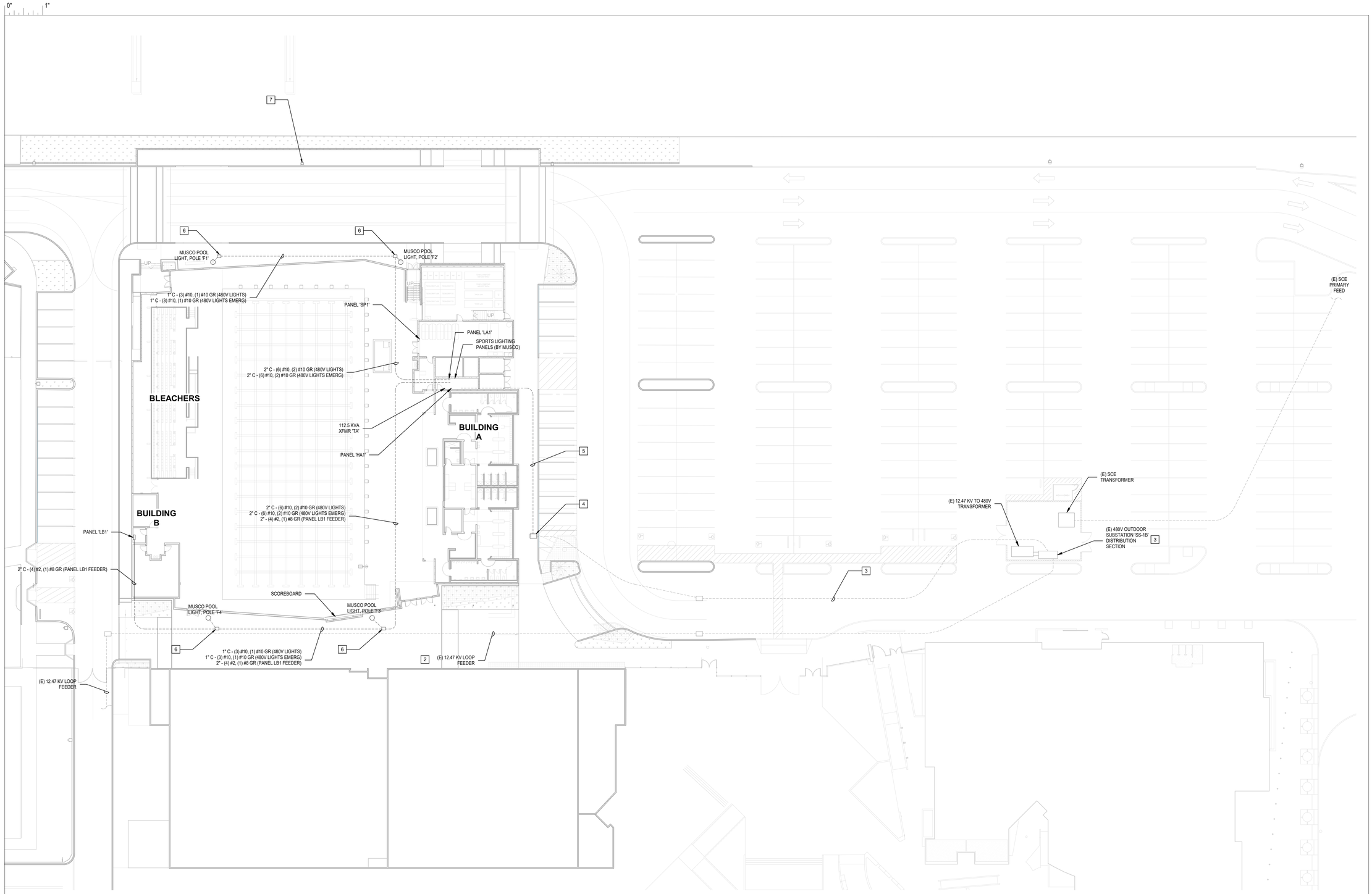
| No. | Description | Date |
|---|---|---|
| | | |

**100% CONSTRUCTION DOCUMENTS**

## ELECTRICAL TITLE 24

# E0.3

E1.1 - ELECTRICAL SITE PLAN




## 1 OVERALL SITE PLAN

1" = 20'-0"

## KEY NOTES

1. PROTECT AND PRESERVE (E) DUCT BANK RUNNING ALONG THE SOUTH END OF THE PROJECT DEMOLITION SCOPE.
2. IF CIRCUIT CONTINUITY FOR SITE LIGHTING IS INTERRUPTED DURING DEMOLITION, PROVIDE RE-ROUTED CONDUIT AND CONDUCTORS AND RE-ESTABLISH SITE LIGHTING CIRCUIT CONTINUITY.
3. NEW POOL COMPLEX TO BE FED FROM THE SAME 400A, 3 POLE BREAKER IN (E) 480V OUTDOOR SUBSTATION "SS-1B" DISTRIBUTION SECTION THAT WAS USED TO FEED THE DEMOLISHED POOL COMPLEX. SHOWN FOR REFERENCE.
4. LOCATE 400A, 480V UNDERGROUND FEED FOR DEMOLISHED POOL COMPLEX AND PLACE CONCRETE IN-GRADE PULLBOX NEAR NEW BUILDING, AS INDICATED ON PLANS.
5. EXTEND CONDUIT AND CONDUCTORS FROM PULLBOX TO PANEL "HA1" IN BUILDING A ELECTRICAL ROOM.
6. PROVIDE CHRISTY N30 CONCRETE PULLBOX. MOUNT FLUSH WITH GRADE.
7. EXISTING LIGHT POLES TO BE REMOVED AND PUT AWAY IN STORAGE DURING DEMO/CONSTRUCTION. UPON COMPLETION OF WORK, LIGHT POLES ARE TO BE RE-INSTALLED. REFER TO ARCHITECTURAL DRAWINGS FOR FURTHER INFORMATION.

## GENERAL NOTES

1. THE EXISTING BUILDING INLCUDING PORTIONS OF THE RENOVATED AREA SHALL REMAIN IN SERVICE DURING THE CONSTRUCTION PHASE OF THIS PROJECT. ANY MODIFICATIONS TO THE EXISTING ELECTRICAL SYSTEMS THAT MAY REQUIRE THE TEMPORARY INTERRUPTION OF THE EXISTING SERVICES SHALL BE COORDINATED AND PRESCHEDULED WITH THE OWNER'S REPRESENTATIVE PRIOR TO STARTING ANY WORK.
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3. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES CAUSED BY INSTALLATION OF NEW WORK.

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# CENTENNIAL HIGH SCHOOL AQUATICS CENTER

PROJECT ADDRESS:
1820 RIMPAU AVE.
CORONA, CA 92881

100% CONSTRUCTION DOCUMENTS

DSA APPL NO.: ##-##### DSA FILE NO.: ###




KEY PLAN NORTH: PLAN

Consultant

REGISTERED PROFESSIONAL ENGINEER
RONALD C. DELA CRUZ
No. E 23576
Exp. 09/30/2023
ELECTRICAL
STATE OF CALIFORNIA
FOR PLAN CHECK ONLY

Architect

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CNUSD

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| 2/24/2023 | 220306 |

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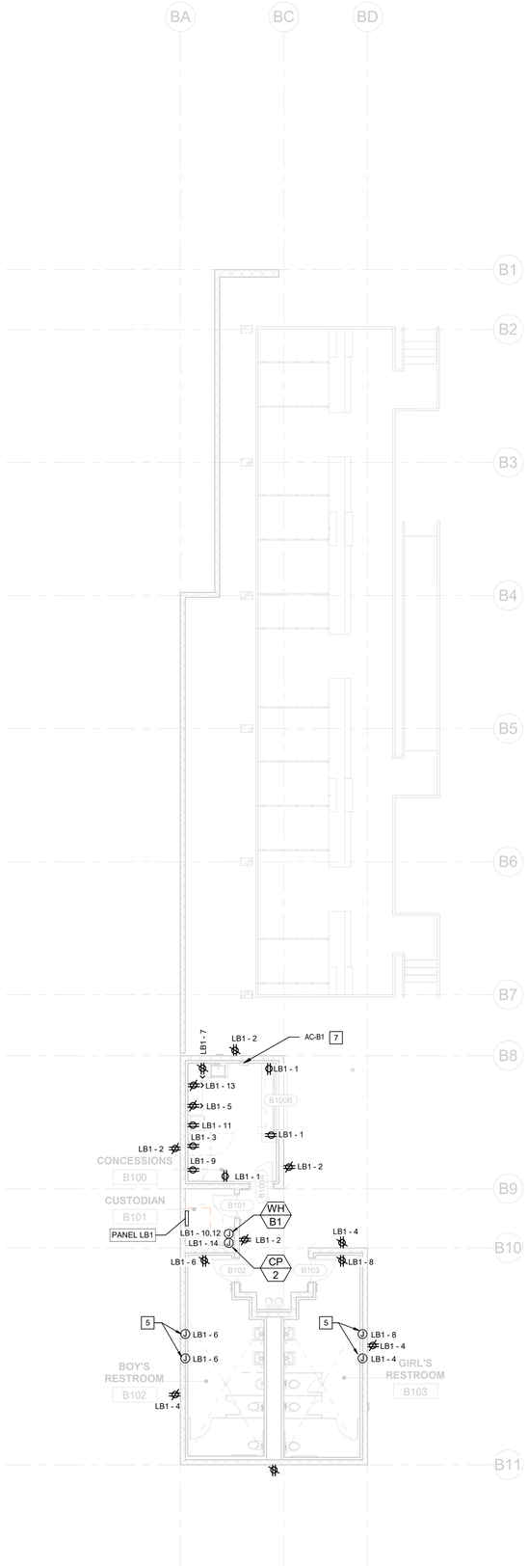
ELECTRICAL SITE PLAN

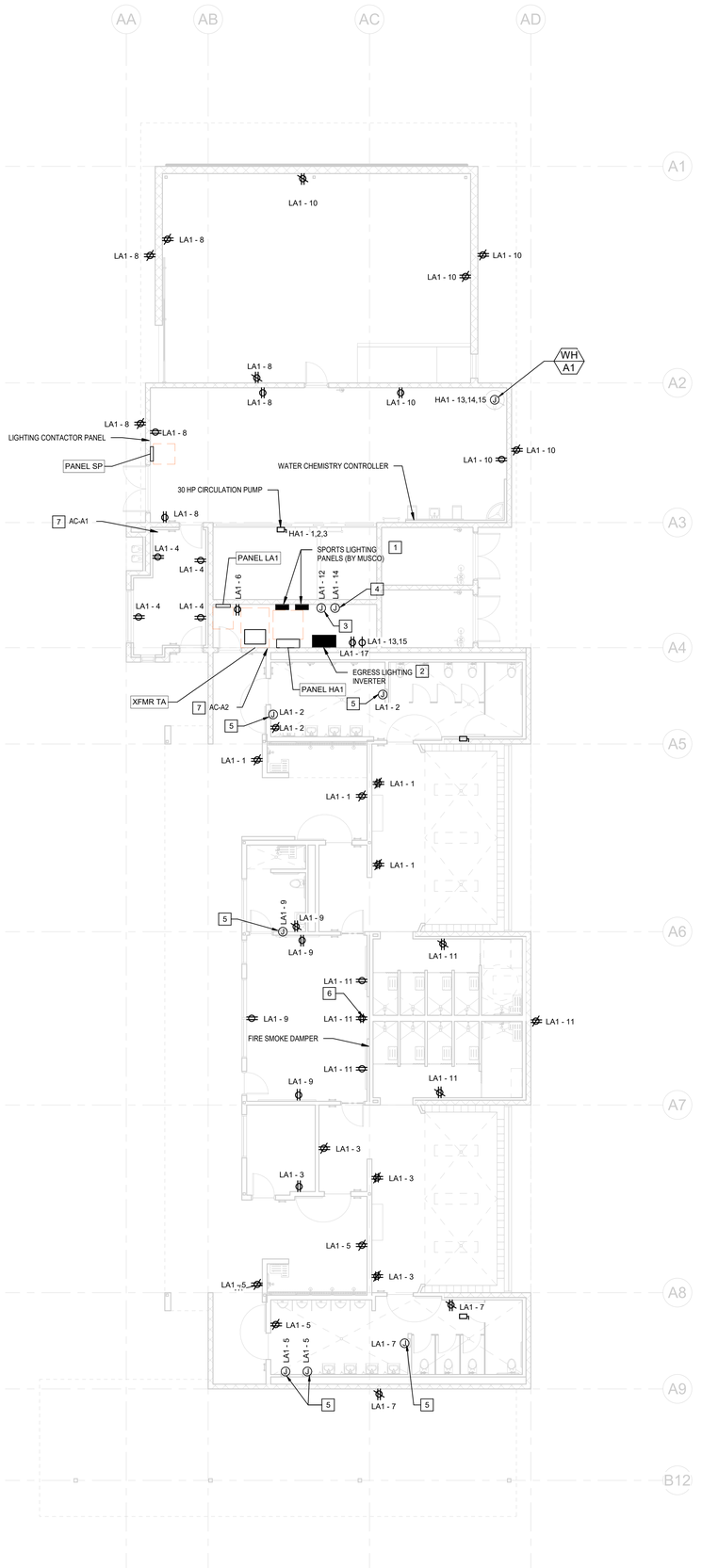
E1.1

0" 1"




## 2 FLOOR PLAN - BLDG "B"

1/8" = 1'-0"




## 1 FLOOR PLAN - BLDG "A"

1/8" = 1'-0"

## GENERAL NOTES

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3. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES CAUSED BY INSTALLATION OF NEW WORK.

## KEY NOTES

1. SPORTS LIGHTING RELAY PANEL AND ALIC PANEL PROVIDED BY MUSCO LIGHTING. SEE MUSCO LIGHTING SHEETS FOR FURTHER INFORMATION.
2. PROVIDE 8kVA INVERTER TO SERVE SPORTS LIGHTING EGRESS FIXTURES (ACUITY/LITHONIA ISCN3P SERIES OR EQUAL). PROVIDE IN SINGLE CABINET INCLUDING BATTERIES AND CONTROL PANEL. BOTH INPUT AND OUTPUT VOLTAGE TO BE 277/480V.
3. PROVIDE 120V CIRCUIT IN BACKBOX FOR SECURITY PANEL. SEE TECHNOLOGY DRAWINGS FOR FURTHER INFORMATION.
4. PROVIDE 120V CIRCUIT IN BACKBOX FOR FIRE ALARM POWER SUPPLY. SEE FIRE ALARM DRAWINGS FOR FURTHER INFORMATION.
5. PROVIDE BACKBOX FOR HAND DRYER. MOUNT AT APPROXIMATELY 48" AFF. COORDINATE EXACT MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS.
6. PROVIDE QUADPLEX RECPTACLE AT +60" A.F.F. FOR WALL MOUNTED T.V. COORDINATE WITH ARCHITECT FOR EXACT MOUNTING HEIGHT AND LOCATION.
7. INDOOR WALL MOUNTED FAN COIL UNIT (AC) IS POWERED THROUGH THE OUTDOOR HEAT PUMP UNIT (HP). PROVIDE EMPTY CONDUIT WITH PULL STRING BETWEEN UNITS.

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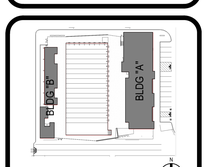


KEY PLAN

NORTH: PLAN

Consultant

REGISTERED PROFESSIONAL ENGINEER
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## ELECTRICAL FLOOR PLANS - BLDG "A" & BLDG "B"

E2.1

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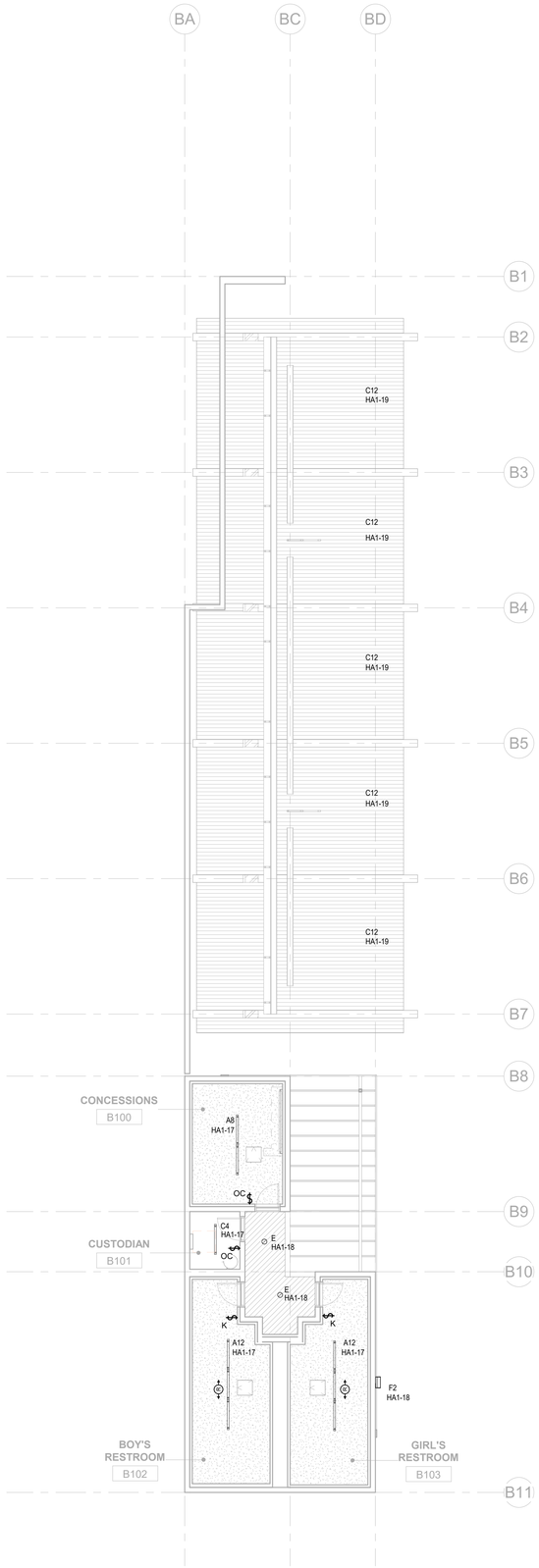
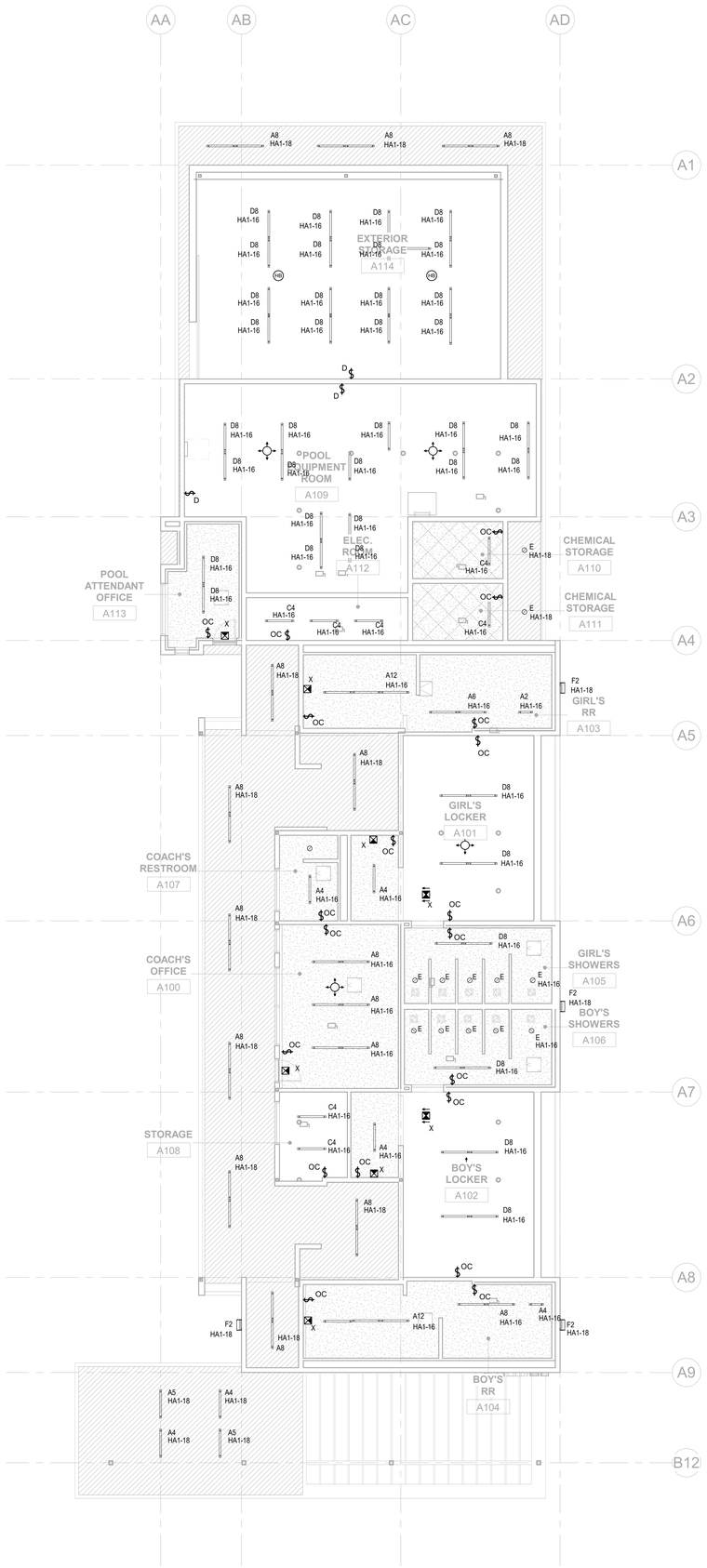
0" 1"




2 LIGHTING PLAN - BLDG "B"
1/8" = 1'-0"




1 LIGHTING PLAN - BLDG "A"
1/8" = 1'-0"

## GENERAL NOTES

1. THE EXISTING BUILDING INLCUDING PORTIONS OF THE RENOVATED AREA SHALL REMAIN IN SERVICE DURING THE CONSTRUCTION PHASE OF THIS PROJECT. ANY MODIFICATIONS TO THE EXISTING ELECTRICAL SYSTEMS THAT MAY REQUIRE THE TEMPORARY INTERRUPTION OF THE EXISTING SERVICES SHALL BE COORDINATED AND PRESCHEDULED WITH THE OWNER'S REPRESENTATIVE PRIOR TO STARTING ANY WORK.
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3. REFER TO ARCHITECT'S REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF ALL LIGHT FIXTURES.
4. UNLESS OTHERWISE NOTED, ALL EXIT SIGNS ARE TYPE "X"
5. ALL HALF SHADED LIGHT FIXTURE DESIGNATED "EM" ARE TO BE ON EMERGENCY FED FROM INVERTER.
6. PROVIDE A COMPLETE AND OPERATIONAL SYSTEM OF OCCUPANCY/VACANCY SENSOR FOR DIMMING CONTROL OF ALL LIGHT FIXTURES INCLUDING BUT NOT LIMITED TO POWER PACKS, WIRING. ETC, THE MAIN POWER PACK FOR OCCUPANCY SENSOR SHALL BE MOUNTED TO A JUNCTION BOX TO BE LOCATED ABOVE THE CEILING. SYMBOL LEGEND AND DIVISION 26 SPECIFICATIONS FOR ADDITIONAL INFORMATION.

## KEY NOTES

1 PROVIDE NEW LIGHT FIXTURE. SEE LIGHT FIXTURE SCHEDULE ON E6.1 FOR FURTHER DETAILS.

2 PROVIDE NEW EXTERIOR LIGHT FIXTURE. SEE LIGHT FIXTURE SCHEDULE ON SHEET E6.1 FOR FURTHER DETAILS.

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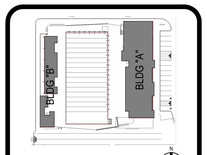


KEY PLAN NORTH: PLAN

Consultant

REGISTERED PROFESSIONAL ENGINEER
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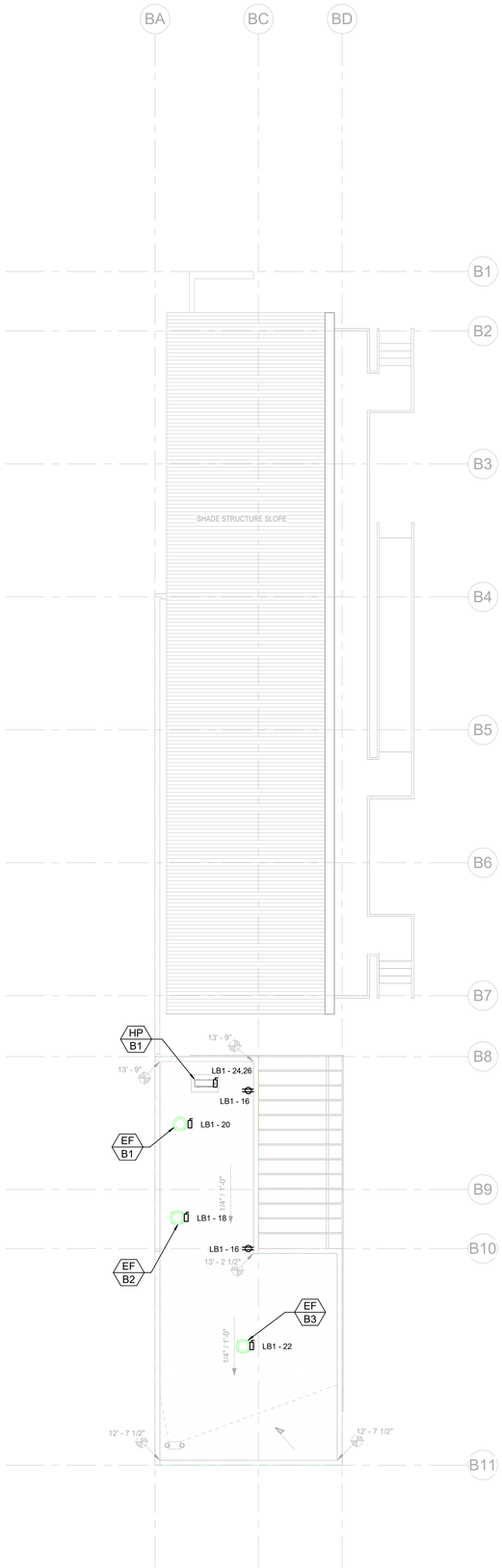
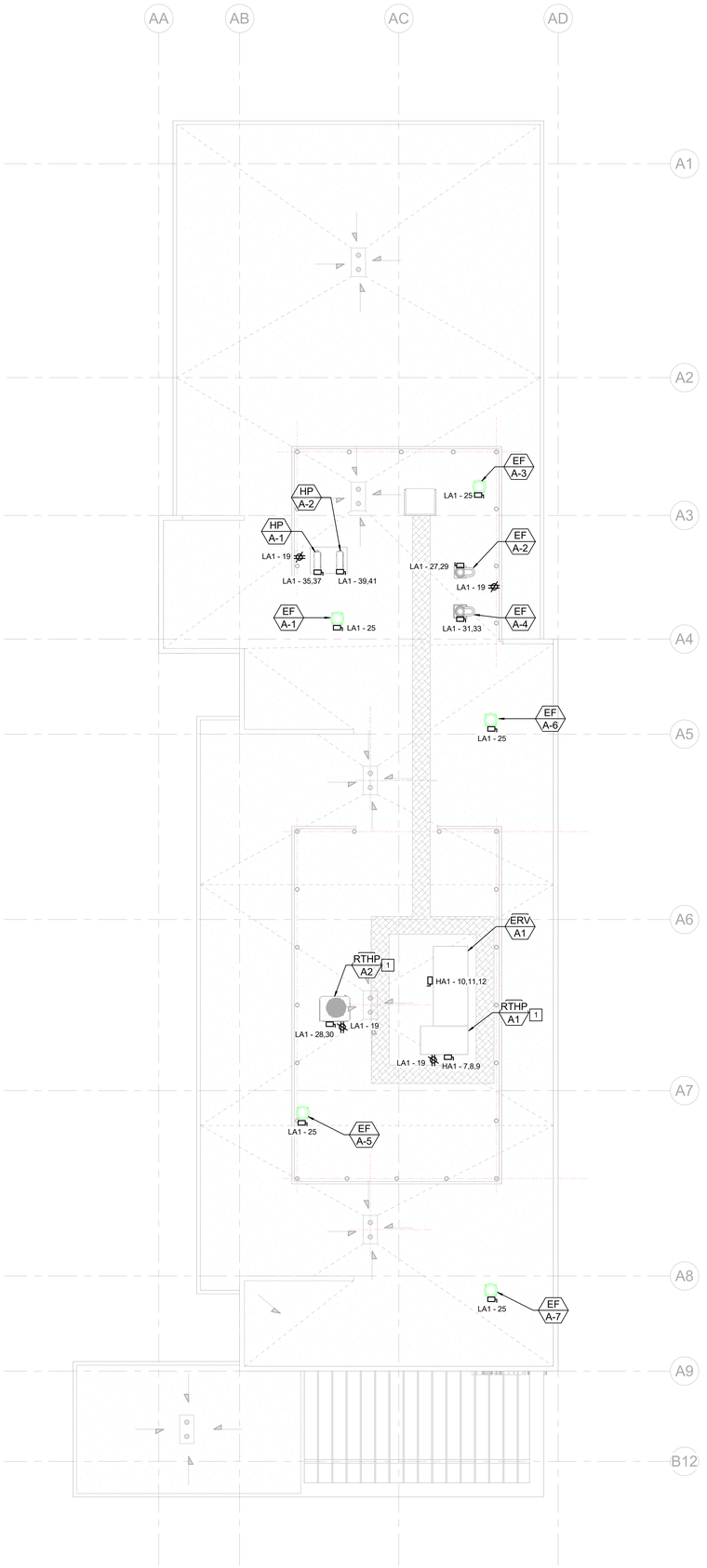
LIGHTING PLANS - BLDG "A" & BLDG "B"

E3.1

0" 1"




## 2 ROOF PLAN - BLDG "B"
1/8" = 1'-0"




## 1 ROOF PLAN - BLDG "A"
1/8" = 1'-0"

## GENERAL NOTES

1. ALL ROOF MOUNTED DEVICES, INCLUDING MOTOR SWITCHES, TO BE WEATHER PROOF.
2. COORDINATE ALL EQUIPMENT LOCATIONS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. VERIFY PRIOR TO INSTALLATION.
3. UNLESS OTHERWISE NOTED, ALL COMBO STARTER DISCONNECTS ARE 30/NF/3/3R; SIZE '0' STARTER.
4. UNLESS OTHERWISE NOTED, ALL DISCONNECT SWITCHES ARE 30/NF/3/3R.

## KEY NOTES

1 MECHANICAL RHTP UNITS ARE PROVIDED WITH FACTORY INSTALLED DISCONNECT SWITCH AND RECEPTACLES. CIRCUITS SHOWN ADJACENT TO AC UNITS ARE POWER TO DISCONNECT AND RECEPTACLE.

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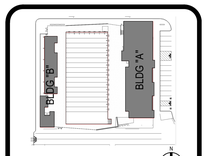


KEY PLAN
NORTH: PLAN

Consultant

REGISTERED PROFESSIONAL ENGINEER
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ELECTRICAL ROOF PLANS - BLDG "A" & BLDG "B"

E4.1

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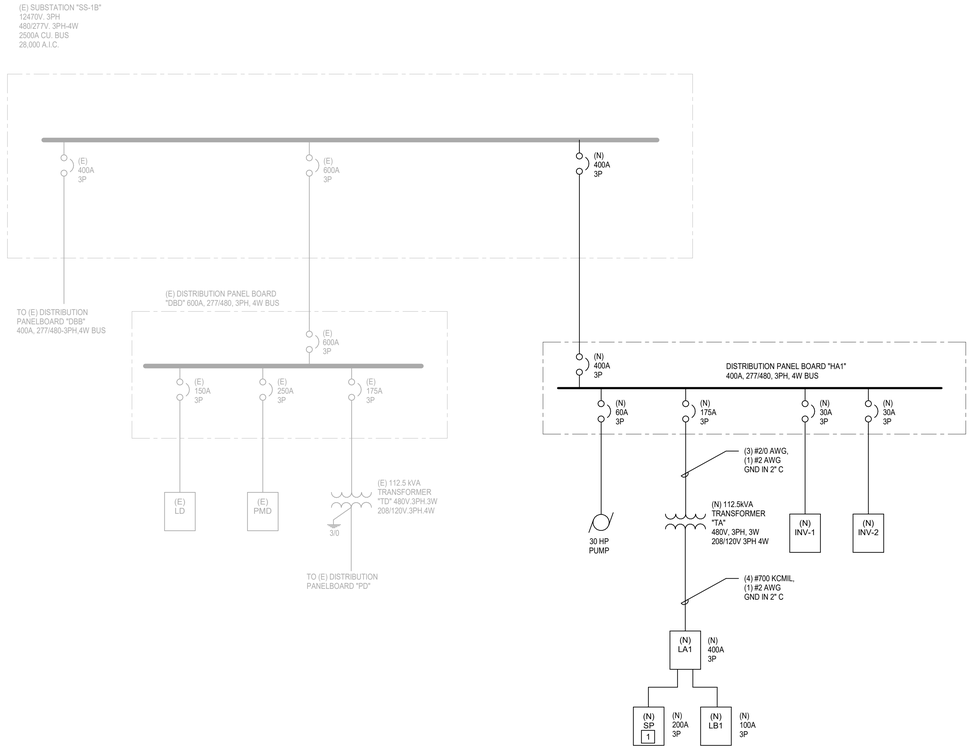
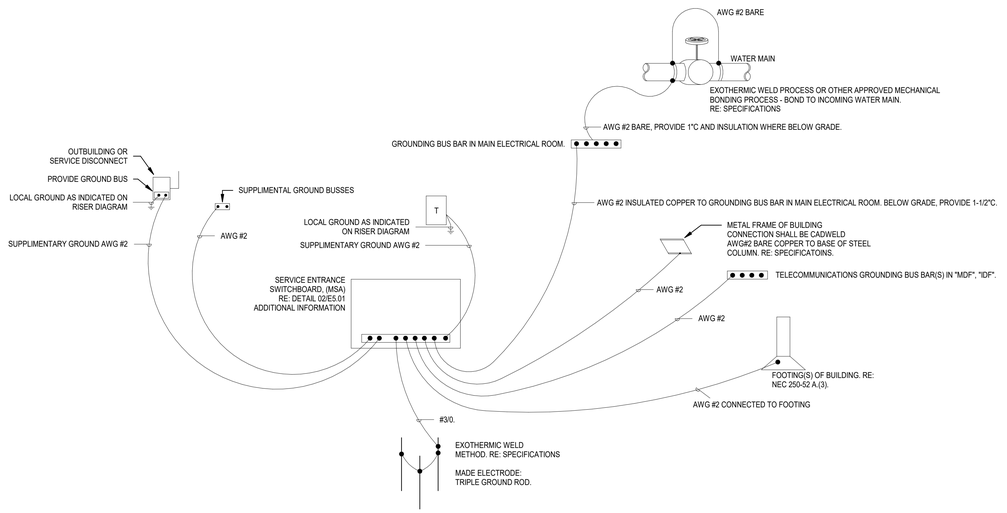
E5.1 - ELECTRICAL SINGLE LINE DIAGRAM

0" 1"

## KEY NOTES

1 PANEL 'SP' IS FOR POOL EQUIPMENT. PANEL SCHEDULE AND CONNECTED CIRCUITS SHOWN ON AQUATICS DRAWINGS, SHEET MR.5.




1 ELECTRICAL GROUNDING REQUIREMENTS
1/8" = 1'-0"

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# ELECTRICAL SINGLE LINE DIAGRAM

E5.1

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## CENTENNIAL LUMINAIRE SCHEDULE

| TYPE | MANUFACTURER | CATALOG NUMBER | MOUNTING | LAMPS NO./TYPE | VOLTS | WATTS | KELVIN | DESCRIPTION | |
|---|---|---|---|---|---|---|---|---|---|
| A2 | MARK ARCHITECTURAL LIGHTING | S2LID-LCB-2FT-80CRI-40K-400LMF-MIN1-SCT-MVOLT-E10WLCP | RECESSED | LED 0-10V | 120-277 | 22.5W | 4000K | FLUSH 4"X2' | |
| A4 | MARK ARCHITECTURAL LIGHTING | S2LID-LCB-MSL4-80CRI-40K-400LMF-MIN1-SCT-MVOLT-E10WLCP | RECESSED | LED 0-10V | 120-277 | 22.5W | 4000K | FLUSH 4"X4' | |
| A5 | MARK ARCHITECTURAL LIGHTING | S2LID-LCB-MSL5-80CRI-40K-400LMF-MIN1-SCT-MVOLT-E10WLCP | RECESSED | LED 0-10V | 120-277 | 22.5W | 4000K | FLUSH 4"X5' | |
| A6 | MARK ARCHITECTURAL LIGHTING | S2LID-LCB-MSL6-80CRI-40K-400LMF-MIN1-SCT-MVOLT-E10WLCP | RECESSED | LED 0-10V | 120-277 | 22.5W | 4000K | FLUSH 4"X6' | |
| A12 | MARK ARCHITECTURAL LIGHTING | S2LID-LCB-12FT-80CRI-40K-400LMF-MIN1-SCT-MVOLT-E10WLCP | RECESSED | LED 0-10V | 120-277 | 22.5W | 4000K | FLUSH 4"X12' | |
| C4 | LITHONIA | CLX-LEDLINEAR-L48-MVOLT-GZ10-40K-80CRI-PS1050 | RECESSED | LED 0-10V | 120-277 | 31.8W | 4000K | 4"X4' CEILING LINEAR | |
| C12 | LITHONIA | CLX-LEDLINEAR-L48-MVOLT-GZ10-40K-80CRI-PS1050 | RECESSED | LED 0-10V | 120-277 | 31.8W | 4000K | 4"X12' CEILING LINEAR | |
| D8 | LITHONIA | CLX-LEDLINEAR-L48-MVOLT-GZ10-40K-80CRI-PS1050 | RECESSED | LED 0-10V | 120-277 | 31.8W | 4000K | 4"X8' PENDANT LINEAR | |
| E | LITHONIA | LDN4SQ-40-MVOLT-GZ10 | RECESSED | LED 0-10V | 120-277 | 38W | 3500K | 4" SQUARE DOWN LIGHT | |
| F1 | LITHONIA | WDGE1LED-P1-40K-80CRI-MVOLT-E4WH | WALL MOUNT | LED 0-10V | 120-277 | 4W | 4000K | WALL SCONCE | |
| F2 | LITHONIA | WDGE2LED-P1-40K-80CRI-MVOLT-E4WH | WALL MOUNT | LED 0-10V | 120-277 | 10W | 4000K | WALL SCONCE | |

**ANY PROPOSED EQUAL FIXTURE OR CONTROL SUBSTITUTIONS SHALL BE SUBMITTED 14 DAYS PRIOR TO BID DAY, ACCOMPANIED BY DETAILED SPECIFICATION CUT SHEETS AND PHOTOMETRIC CALCULATIONS OF EVERY AREA WHERE THE PROPOSED SUBSTITUTION FIXTURE IS LOCATED, INCLUDING MAX-MIN, AVG-MIN, MAX-MIN, FOOT-CANDLE LEVELS & RATIOS CALCULATED AT A 30" WORK PLANE. ANY MISSING DATA SHALL DEEM THE PROPOSED ALTERNATE / SUBSTITUTE FIXTURE OR CONTROLS, UNACCEPTABLE AND REJECTED WITHOUT FURTHER CONSIDERATION. ANY SUBSTITUTED FIXTURES CANNOT BE ASSURED TO PERFORM WITH EQUAL PHOTOMETRIC PERFORMANCE WITHOUT PHOTOMETRIC CALCULATIONS.**

## Branch Panel: HA1

**LOCATION:** ELEC. ROOM A112 | **VOLTAGE:** 480/277 Wye | **AIC RATING:**
**SUPPLY FROM:** | **PHASES:** 3 | **MAINS TYPE:**
**MOUNTING:** Surface | **WIRES:** 4 | **MAIN CIRCUIT...**
**ENCLOSURE:** | **PHASE:** New Construction

**Notes:**

| CKT | Circuit Description | Trip | Poles | A | B | C |
|---|---|---|---|---|---|---|
| 1,2,3 | 30 HP CIRCULATION PUMP | 60 A | 3 | 7460 VA | 7460 VA | 7460 VA |
| 4,5,6 | XFMR TA | 100 A | 3 | 23647 VA | 31004 VA | 31885 VA |
| 7,8,9 | RTHP A1 | 40 A | 3 | 7205 VA | 7205 VA | 7205 VA |
| 10,11,12 | ERV A1 | 30 A | 3 | 2633 VA | 2633 VA | 2633 VA |
| 13,14,15 | WH A1 | 80 A | 3 | 18013 VA | 18013 VA | 18013 VA |
| 16 | LTG-BLDG A | 20 A | 1 | 1296 VA | | |
| 17 | LTG-BLDG B | 20 A | 1 | | 1296 VA | |
| 18 | LTG-EXTERIOR | 20 A | 1 | | | 1296 VA |
| 19 | LTG-EXTERIOR | 20 A | 1 | 1296 VA | | |
| 20 | Spare | 20 A | 1 | | 0 VA | |
| 21 | Spare | 20 A | 1 | | | 0 VA |
| 22,23,24 | MUSCO LIGHTS | 20 A | 3 | 1760 VA | 1760 VA | 1760 VA |
| 25,26,27 | MUSCO LIGHTS (EGRESS VIA INVERTER) | 20 A | 3 | 1760 VA | 1760 VA | 1760 VA |
| 28,29,30 | Spare | 20 A | 3 | 0 VA | 0 VA | 0 VA |
| 31,32,33 | Spare | 20 A | 3 | 0 VA | 0 VA | 0 VA |
| 34,35,36 | Spare | 20 A | 3 | 0 VA | 0 VA | 0 VA |
| 37,38,39 | Spare | 20 A | 3 | 0 VA | 0 VA | 0 VA |
| 40,41,42 | Spare | 20 A | 3 | 0 VA | 0 VA | 0 VA |
| 43,44,45 | Spare | 20 A | 3 | 0 VA | 0 VA | 0 VA |
| 46,47,48 | Spare | 20 A | 3 | 0 VA | 0 VA | 0 VA |
| | | | **Total Load:** | 65070 VA | 71131 VA | 72012 VA |
| | | | **Total Amps:** | 235 A | 260 A | 263 A |

**Legend:**

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| Motor | 81233 VA | 100.00% | 81233 VA | | |
| Other | 111740 VA | 100.00% | 111740 VA | **Total Conn. Load:** | 208213 VA |
| Receptacle | 15240 VA | 82.81% | 12620 VA | **Total Est. Demand:** | 205593 VA |
| | | | | **Total Conn. Current:** | 250 A |
| | | | | **Total Est. Demand Current:** | 247 A |

**Notes:**

## Branch Panel: LA1

**ELEC. ROOM A112**
**PHASE:** New Construction | **MAINS TYPE:**
**VOLTAGE:** 120/208 Wye | **MAIN CIRCUIT BKR:** 400 A
**MOUNTING:** SURFACE | **AIC RATING:** 22 KAIC

| CIR NO | Circuit Description | Breaker amps/poles | | | A | B | C | Legend | | | Circuit Description | CIR NO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | REC-LOCKER ROOM | 20 A | 1 | | 1080 / 980 | | | | 1 | 20 A | REC & DRYERS-RESTROOM | 2 |
| 3 | REC-LOCKER ROOM | 20 A | 1 | | | 1080 / 720 | | | 1 | 20 A | REC-POOL ATTENDANT | 4 |
| 5 | REC & DRYERS-RESTROOM | 20 A | 1 | | | | 1340 / 180 | | 1 | 20 A | REC-ELEC ROOM | 6 |
| 7 | REC & DRYERS-RESTROOM | 20 A | 1 | | 760 / 1260 | | | | 1 | 20 A | REC-POOL EQUIP ROOM & STORAGE | 8 |
| 9 | REC-COACHES OFFICE | 20 A | 1 | | | 1120 / 1080 | | | 1 | 20 A | REC-POOL EQUIP ROOM & STORAGE | 10 |
| 11 | REC-COACHES OFFICE | 20 A | 1 | | | | 1260 / 250 | | 1 | 20 A | REC-SECURITY PANEL | 12 |
| 13 | REC-IDF | 30 A | 2 | | 90 / 250 | | | | 1 | 20 A | REC-FIRE ALARM PANEL | 14 |
| 15 | -- | -- | -- | -- | | 90 / 0 | | | | | | 16 |
| 17 | REC-IDF | 20 A | 1 | | | | 180 / 0 | | | | | 18 |
| 19 | REC-ROOF | 20 A | 1 | | 720 / 0 | | | -- | 1 | 20 A | Spare | 20 |
| 21 | Spare | 20 A | 1 | -- | | 0 / 0 | | -- | 1 | 20 A | Spare | 22 |
| 23 | Spare | 20 A | 1 | -- | | | 0 / 0 | -- | 1 | 20 A | Spare | 24 |
| 25 | EF A1, A3, A5, A6, A7 | 20 A | 1 | | 900 / 0 | | | -- | 1 | 20 A | Spare | 26 |
| 27 | EF A2 | 20 A | 2 | | | 707 / 7436 | | | 2 | 80 A | RTHP A2 | 28 |
| 29 | -- | -- | -- | -- | | | 707 / 7436 | -- | -- | -- | -- | 30 |
| 31 | EF A4 | 20 A | 2 | | 687 / 6052 | | | | 3 | 100 A | PANEL LB1 | 32 |
| 33 | -- | -- | -- | -- | | 687 / 4980 | | -- | -- | -- | -- | 34 |
| 35 | HP A1 | 20 A | 2 | | | | 156 / 7272 | -- | -- | -- | -- | 36 |
| 37 | -- | -- | -- | -- | 156 / 10712 | | | | 3 | 200 A | PANEL SP | 38 |
| 39 | HP A2 | 35 A | 2 | | | 2392 / 10712 | | -- | -- | -- | -- | 40 |
| 41 | -- | -- | -- | -- | | | 2392 / 10712 | -- | -- | -- | -- | 42 |

**Legend:**
** 6 mA GROUND FAULT CIRCUIT BREAKER
*30 mA GROUND FAULT CIRCUIT BREAKER
# RED, LOCK-ON CIRCUIT BREAKER HANDLE
ST - SHUNT TRIP

**CONNECTED LOAD BY PHASE:**
**A:** 23647 VA
**B** 31004 VA
**C:** 31885 VA

**CONNECTED** 86535 VA KVA
240 A 3 PH. AMPS
**DEMAND LOAD**
233 A 3 PH. AMPS

REMARKS:

## Branch Panel: LB1

**CUSTODIAN B101**
**PHASE:** New Construction | **MAINS TYPE:**
**VOLTAGE:** 120/208 Wye | **MAIN CIRCUIT BKR:** 1 A
**MOUNTING:** SURFACE | **AIC RATING:** 22K

| CIR NO | Circuit Description | Breaker amps/poles | | | A | B | C | Legend | | | Circuit Description | CIR NO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | REC-CONCESSIONS | 20 A | 1 | | 540 / 720 | | | | 1 | 20 A | REC-EXTERIOR | 2 |
| 3 | REC-CONCESSIONS | 20 A | 1 | | | 500 / 720 | | | 1 | 20 A | REC-EXTERIOR | 4 |
| 5 | REC-CONCESSIONS | 20 A | 1 | | | | 500 / 980 | | 1 | 20 A | REC & DRYERS-RESTROOM | 6 |
| 7 | REC-CONCESSIONS | 20 A | 1 | | 500 / 980 | | | | 1 | 20 A | REC & DRYERS-RESTROOM | 8 |
| 9 | REC-CONCESSIONS | 20 A | 1 | | | 500 / 2600 | | | 2 | 20 A | WATER HEATER | 10 |
| 11 | REC-CONCESSIONS | 20 A | 1 | | | | 500 / 2600 | -- | -- | -- | -- | 12 |
| 13 | REC-CONCESSIONS | 20 A | 1 | | 500 / 120 | | | | 1 | 20 A | CIRCULATION PUMP | 14 |
| 15 | | | | | | 0 / 360 | | | 1 | 20 A | REC-ROOF | 16 |
| 17 | | | | | | | 0 / 300 | | 1 | 20 A | EXHAUST FAN | 18 |
| 19 | | | | | 0 / 300 | | | | 1 | 20 A | EXHAUST FAN | 20 |
| 21 | | | | | | 0 / 300 | | | 1 | 20 A | EXHAUST FAN | 22 |
| 23 | | | | | | | 0 / 2392 | | 2 | 20 A | HEAT PUMP | 24 |
| 25 | | | | | 0 / 2392 | | | -- | -- | -- | -- | 26 |
| 27 | | | | | | | | | | | | 28 |
| 29 | | | | | | | | | | | | 30 |
| 31 | | | | | | | | | | | | 32 |
| 33 | | | | | | | | | | | | 34 |
| 35 | | | | | | | | | | | | 36 |
| 37 | | | | | | | | | | | | 38 |
| 39 | | | | | | | | | | | | 40 |
| 41 | | | | | | | | | | | | 42 |

**Legend:**
** 6 mA GROUND FAULT CIRCUIT BREAKER
*30 mA GROUND FAULT CIRCUIT BREAKER
# RED, LOCK-ON CIRCUIT BREAKER HANDLE
ST - SHUNT TRIP

**CONNECTED LOAD BY PHASE:**
**A:** 6052 VA
**B** 4980 VA
**C:** 7272 VA

**CONNECTED** 18304 VA KVA
51 A 3 PH. AMPS
**DEMAND LOAD**
51 A 3 PH. AMPS

REMARKS:

SEE AQUATICS DRAWINGS, SHEET MR.5 FOR PANEL 'SP' SCHEDULE

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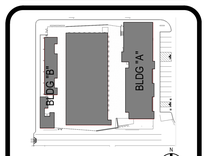
CENTENNIAL HIGH SCHOOL
AQUATICS CENTER

PROJECT ADDRESS:
1820 RIMPAU AVE.
CORONA, CA 92881

100% CONSTRUCTION DOCUMENTS

DSA APPL NO.: ##-##### DSA FILE NO.: ###




KEY PLAN
NORTH: PLAN

Consultant

REGISTERED PROFESSIONAL ENGINEER
RONALD C DE LA CRUZ
No. E 23578
Exp. 09-30-2023
ELECTRICAL
STATE OF CALIFORNIA
FOR PLAN CHECK ONLY

Architect

CLIENT
CNUSD

DATE 2/24/2023
PROJECT NUMBER 220306

REVISIONS

| No. | Description | Date |
|---|---|---|

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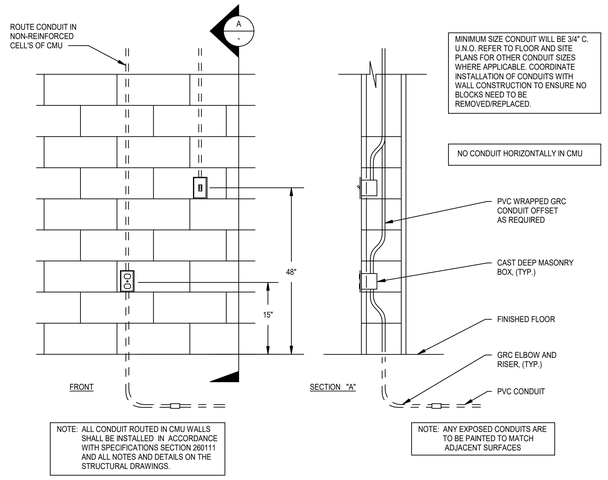
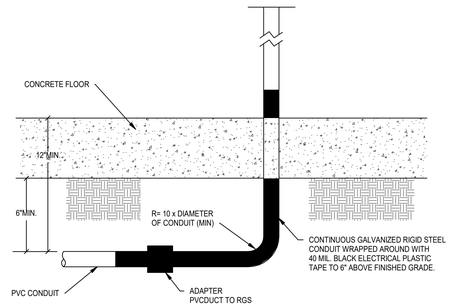
ELECTRICAL SCHEDULES

E6.1

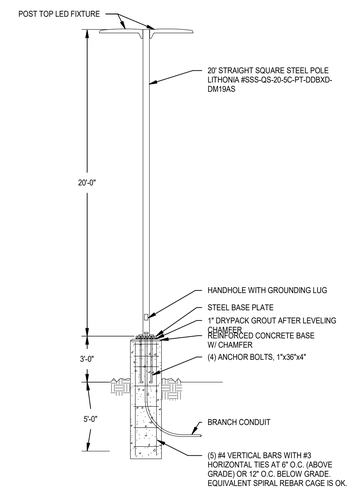
0" 1"



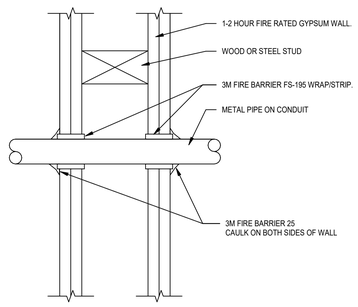

**1** CONDUIT IN CMU WALL DETAIL
12" = 1'-0"



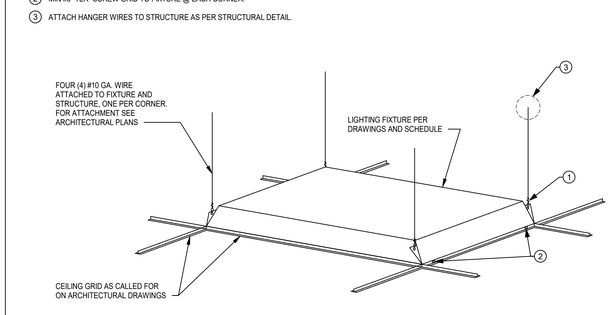

**2** CONDUIT RISER DETAIL
12" = 1'-0"



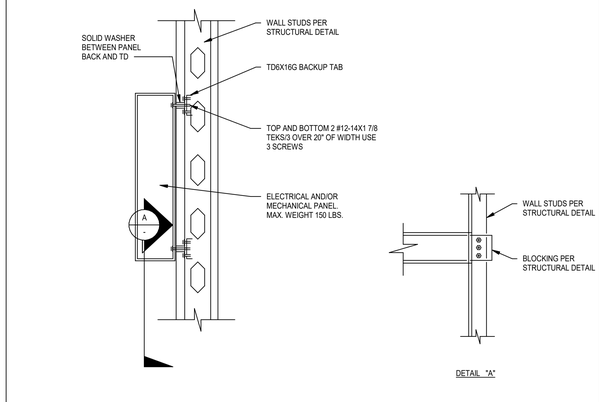

**3** POLE MOUNTED FIXTURE
1/4" = 1'-0"



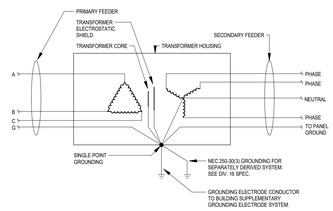

**4** CONDUIT PENETRATION FIRE STOP "1-2 HOUR" GYP WALL DETAIL
12" = 1'-0"



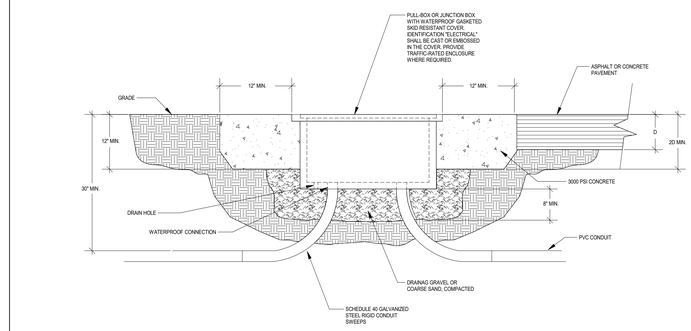

**5** RECESSED FIXTURE IN LAY-IN GRID DETAIL
12" = 1'-0"



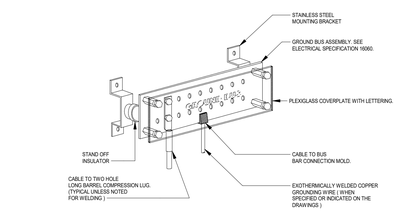

**6** SURFACE MOUNTED PANEL/CABINET STEEL FRAMING DETAIL
12" = 1'-0"




**7** DELTA-WYE TRANSFORMER SCHEMATIC
1/8" = 1'-0"




**8** EXTERIOR JUNCTION BOX
1/8" = 1'-0"




**9** GROUND BUS DETAIL
1/8" = 1'-0"

PBK

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# CENTENNIAL HIGH SCHOOL AQUATICS CENTER

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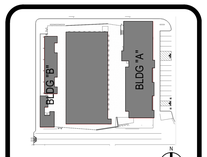


KEY PLAN
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100% CONSTRUCTION DOCUMENTS

# ELECTRICAL DETAILS

E7.1

0" 1"

## PLUMBING LEGEND

NOTE: NOT ALL SYMBOLS TABULATED BELOW ARE NECESSARILY USED ON THE DRAWINGS.

| SYMBOL | ITEM | ABBR. |
|---|---|---|
| S / 1 | FIXTURE DESIGNATION<br>UNIT ABBREVIATION<br>NUMBER | |
| 01 / P-1 | DETAIL DESIGNATION<br>DETAIL NUMBER<br>SHEET NO. WHERE SHOWN | |
| | DOMESTIC COLD WATER | CW |
| | DOMESTIC HOT WATER | HW |
| | DOMESTIC HW RETURN | HWR |
| | EXISTING PIPING | |
| X | POINT OF CONNECTION | POC |
| C | CONDENSATE DRAIN | |
| | SHUT-OFF VALVE IN BOX | SOV |
| | PIPING RISE | |
| | PIPING DROP | |
| S | SOIL OR WASTE | S OR W |
| V | VENT | V |
| | VENT THRU ROOF | VTR |
| FCO | FLOOR CLEANOUT | FCO |
| COTG | CLEANOUT TO GRADE | COTG |
| | WALL CLEANOUT | WCO |
| | HOSE BIBB | HB |
| RD | ROOF DRAIN | RD |
| OD | OVERFLOW DRAIN | OD |
| | DOWN SPOUT | DS |
| | UNDERGROUND | UG |
| TP | TRAP PRIMER | TP |
| SD | STORM DRAIN | SD |
| (E) | EXISTING | EXIST. |
| (N) | NEW | NEW |
| | UNDERFLOOR | UF |
| | OVERHEAD | OH |
| R | RELIEF | |
| D | DRAIN | |
| | CONDENSATE DRAIN CLEAN OUT | CO |
| SC | SECONDARY CONDENSATE DRAIN | |
| FC | FURNACE CONDENSATE | |
| | GAS SHUT OFF VALVE | GSOV |
| | CONDENSATE DRAIN TRAP | CDT |
| LPG | LIQUIFIED PETROLEUM GAS | LPG |
| G | NATURAL GAS | G |
| | FIRE SPRINKLER RISER | FSR |
| FSL | FIRE SPRINKLER LINE | FSL |
| | FIRE DEPARTMENT CONNECTION | FDC |
| | FINISHED FLOOR | FF |
| | FLOW LINE | FL |
| ▲ | FIRE RATED PENETRATION | |
| | POINT OF DISCONNECTION | POD |
| | POINT OF CONNECTION | POC |
| | PIPE SIZE REDUCER | |

## CALIFORNIA GREEN BUILDING STANDARDS

THE FOLLOWING SHALL BE REQUIRED WHETHER OR NOT SPECIFICALLY SHOWN OR MENTIONED IN DRAWINGS AND/OR SPECIFICATIONS:

5.303.1 METERS: SEPARATE SUBMETERS OR METERING DEVICES SHALL BE INSTALLED FOR USES DESCRIBED IN SECTIONS
5.303.1.1 AND 5.303.1.2.

5.303.1.1 NEW BUILDINGS OR ADDITIONS IN EXCESS OF 50,000 SQUARE FEET:
1. FOR EACH INDIVIDUAL LEASED, RENTED, OR OTHER TENANT SPACE WITHIN THE BUILDING PROJECTEED TO CONSUME MORE THAN 100 GAL/DAY, INCLUDING, BUT NOT LIMITED TO, SPACES USED FOR LAUNDRY OR CLEANERS, RESTAURANT OR FOOD SERVICE, MEDICAL OR DENTAL OFFICE, LABORATORY, OR BEAUTY SALON OR BARBER SHOP.
2. WHERE SEPARATE SUBMETERS FOR INDIVIDUAL BUILDING TENANTS ARE UNFEASIBLE, FOR WATER SUPPLIED TO THE FOLLOWING SUBSYSTEMS:
   a. MAKE-UP WATER FOR COOLING TOWERS WHERE FLOW THROUGH IS GREATER THAN 500 GPM.
   b. MAKE-UP WATER FOR EVAPORATIVE COOLERS GREATER THAN 6 GPM.
   c. STEAM AND HOT-WATER BOILERS WITH ENERGY INPUT MORE THAN 500,000 BTUH/H.

5.303.1.2 EXCESS CONSUMPTION: A SEPARATE SUBMETER OR BE PROVIDED FOR ANY TENANT WITHIN A NEW BUILDING OR WITHIN AN ADDITION THAT IS PROJECTED TO CONSUME MORE THAN 1,000 GAL/DAY.

5.303.2 RESERVED

5.303.3 WATER CONSERVING PLUMBING FIXTURES AND FITTINGS: PLUMBING FIXTURES (WATER CLOSETS AND URINALS) AND FITTINGS (FAUCETS AND SHOWERHEADS) SHALL COMPLY WITH THE FOLLOWING:

5.303.3.1 WATER CLOSETS: THE EFFECTIVE FLUSH VOLUME OF ALL WATER CLOSETS SHALL NOT EXCEED 1.28 GALLONS PER FLUSH. TANK-TYPE WATER CLOSETS SHALL BE CERTIFIED TO THE PERFORMANCE CRITERIA OF THE U.S. EPA WATERSENSE SPECIFICATION FOR TANK-TYPE TOILETS. NOTE: THE EFFECTIVE FLUSH VOLUME OF DUAL FLUSH TOILETS IS DEFINED AS THE COMPOSITE, AVERAGE FLUSH VOLUME OF TWO REDUCED FLUSHES AND ONE FULL FLUSH.

5.303.3.2 URINALS:

5.303.3.2.1 WALL-MOUNTED URINALS: THE EFFECTIVE FLUSH VOLUME OF WALL-MOUNTED URINALS SHALL NOT EXCEED 0.125 GALLONS PER FLUSH.

5.303.3.2.2 FLOOR-MOUNTED URINALS: THE EFFECTIVE FLUSH VOLUME OF FLOOR-MOUNTED URINALS SHALL NOT EXCEED 0.5 GALLONS PER FLUSH.

5.303.3.2.1 WALL-MOUNTED URINALS: THE EFFECTIVE FLUSH VOLUME OF WALL-MOUNTED URINALS SHALL NOT EXCEED 0.125 GALLONS PER FLUSH.

5.303.3.2.2 FLOOR-MOUNTED URINALS: THE EFFECTIVE FLUSH VOLUME OF FLOOR-MOUNTED URINALS SHALL NOT EXCEED 0.5 GALLONS PER FLUSH.

5.303.3.3 SHOWERHEADS:

5.303.3.3.1 SINGLE SHOWERHEAD: SHOWERHEADS SHALL HAVE A MAXIMUM FLOW RATE OF NOT MORE THAN 2.0 GALLONS PER MINUTE AT 80 PSI. SHOWERHEADS SHALL BE CERTIFIED TO THE PERFORMANCE CRITERIA OF THE U.S. EPA WATERSENSE SPECIFICATION FOR SHOWERHEADS.

5.303.3.3.2 MULTIPLE SHOWERHEADS SERVING ONE SHOWER: WHEN A SHOWER IS SERVED BY MORE THAN ONE SHOWERHEAD, THE COMBINED FLOW RATE OF ALL SHOWERHEADS AND/OR SHOWER OUTLETS CONTROLLED BY A SINGLE VALVE SHALL NOT EXCEED 2.0 GALLONS PER MINUTE AT 80 PSI, OR THE SHOWER SHALL BE DESIGNED TO ALLOW ONLY ONE SHOWER OUTLET TO BE IN OPERATION AT A TIME. NOTE: A HAND-HELD SHOWER SHALL BE CONSIDERED A SHOWERHEAD.

5.303.3.4 FAUCETS AND FOUNTAINS:

5.303.3.4.1 NONRESIDENTIAL LAVATORY FAUCETS: LAVATORY FAUCETS SHALL HAVE A MAXIMUM FLOW RATE OF NOT MORE THAN 0.5 GALLONS PER MINUTE AT 60 PSI.

5.303.3.4.2 KITCHEN FAUCETS: KITCHEN FAUCETS SHALL HAVE A MAXIMUM FLOW RATE OF NOT MORE THAN 1.8 GALLONS PER MINUTE AT 60 PSI. KITCHEN FAUCETS MAY TEMPORARILY INCREASE FLOW ABOVE THE MAXIMUM RATE, BUT NOT TO EXCEED 2.2 GALLONS PER MINUTE AT 60 PSI, AND MUST DEFAULT TO A MAXIMUM FLOW RATE OF 1.8 GALLONS PER MINUTE AT 60 PSI.

5.303.3.4.3 WASH FOUNTAINS: WASH FOUNTAINS SHALL HAVE A MAXIMUM FLOW RATE OF NOT MORE THAN 1.8 GALLONS PER MINUTE/20 [RIM SPACE (INCHES) AT 60 PSI].

5.303.3.4.4 METERING FAUCETS: METERING FAUCETS SHALL NOT DELIVER MORE THAN 0.20 GALLONS PER CYCLE.

5.303.3.4.5 METERING FAUCETS FOR WASH FOUNTAINS: METERING FAUCETS FOR WASH FOUNTAINS SHALL HAVE A MAXIMUM FLOW RATE OF NOT MORE THAN 0.20 GALLONS PER CYCLE/20 [RIM SPACE (INCHES) AT 60 PSI]. NOTE: WHERE COMPLYING FAUCETS ARE UNAVAILABLE, AERATORS OR OTHER MEANS MAY BE USED TO ACHIEVE REDUCTION.

## PLUMBING TESTING

1. ALL EQUIPMENT AND/OR SYSTEMS NOTED ON THE DRAWINGS "TO REMAIN" SHALL BE INSPECTED AND TESTED ON SITE TO CERTIFY WORKING CONDITION. A WRITTEN REPORT ON THE CONDITION OF ALL EQUIPMENT TO REMAIN, INCLUDING A COPY OF THE TEST RESULTS AND RECOMMENDED REMEDIAL ACTIONS AND COSTS SHALL BE MADE BY THIS CONTRACTOR TO THE ARCHITECT/ENGINEER FOR REVIEW.

2. PIPE COVER AND BACKFILLING:
   A. AFTER HYDROSTATIC TEST, EVENLY BACKFILL ENTIRE TRENCH WIDTH BY HAND PLACING BACKFILL MATERIAL AND HAND TAMPING IN FOUR (4) INCHES COMPACTED LAYERS TO 12 INCHES MINIMUM COVER OVER TOP OF JACKET. COMPACT TO 95 PERCENT MAXIMUM DENSITY.
   B. EVENLY AND CONTINUOUSLY BACKFILL REMAINING TRENCH DEPTH IN
   C. UNIFORM LAYERS WITH BACKFILL MATERIAL.
   D. DO NOT USE WHEELED OR TRACKED VEHICLES FOR TAMPING.

3. PRESSURE TEST ALL DOMESTIC WATER PIPING. AFTER INSTALLATION AND PRIOR TO BACKFILL OR COVER-UP, RINSE PIPING SYSTEM OF PARTICULATE CONTAMINANTS, CAP AND SUBJECT TO STATIC WATER PRESSURE OF 125 PSIG FOR FOUR (4) HOURS. REPAIR LEAKS AND DEFECTS AND RE-TEST ANY PORTION OF PIPING SYSTEM THAT FAILS. PROVIDE WRITTEN TEST REPORT INCLUDING DATE AND TIME OF TEST, PASS OR FAIL INDICATION, SUMMARY OF REMEDIAL WORK REQUIRED AND DATE AND TIME OF EACH RE-TEST.

4. PRIOR TO COVER UP, WATER PIPE, SANITARY PIPE, AND GAS PIPING SHALL BE PRESSURE TESTED. TESTS SHALL BE WITNESSED BY CONSULTANT AND OWNER. NOTIFY OWNER 48 HOURS PRIOR TO TEST. TEST SHALL BEWITNESSED BY CLIENT PLUMBING TECHNICIAN.

5. UPON COMPLETION OF THE SANITARY PIPING SYSTEM, THE CONTRACTOR SHALL NOTIFY ENGINEER AND OWNER TO OBSERVE A SMOKE TEST OF THE SYSTEM. SMOKE TESTING SHALL BE PERFORMED ON SANITARY PIPING SYSTEM TWICE DURING CONSTRUCTION.

6. PRESSURE TEST NATURAL GAS PIPING IN ACCORDANCE WITH NFPA 54. CA PLUMBING CODE SECTION 1213

## GENERAL PLUMBING NOTES

1. ALL BRACING OF PIPING SHALL BE INSTALLED IN ACCORDANCE 2022 CALIFORNIA PLUMBING CODE REQUIREMENTS.
2. WHERE BRACING DETAILS ARE NOT SHOWN ON THE DRAWINGS OR IN THE GUIDELINES, THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT, MECHANICAL ENGINEER AND FIELD INSPECTOR.
3. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO PROCEEDING WITH INSTALLATION. CONTRACTOR SHALL NOTIFY ARCHITECT/ENGINEER OF ANY EXISTING CONDITIONS WHICH CONFLICT WITH INFORMATION PROVIDED IN CONSTRUCTION DOCUMENTS.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL PIPE ROUTING WITH WORK OF OTHER TRADES AND MAKE ANY OFFSETS AS REQUIRED TO AVOID CONFLICT WITH DUCTWORK, LIGHT FIXTURES, SKYLIGHTS, ETC.
5. PLUMBING CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR FOR ALL CONDENSATE DRAIN CONNECTIONS TO MECHANICAL EQUIPMENT.
6. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING PLUMBING CONDITIONS PRIOR TO PROCEEDING WITH INSTALLATION. CONTRACTOR SHALL NOTIFY ARCHITECT/ ENGINEER OF ANY EXISTING CONDITIONS WHICH CONFLICT WITH INFORMATION PROVIDED IN CONSTRUCTION DOCUMENTS.
7. FOR PLUMBING FIXTURE MOUNTING HEIGHTS AND LOCATIONS, REFER TO THE ARCHITECTURAL DRAWINGS.
8. ALL PLUMBING CONVEYING OR DISPENSING WATER FOR HUMAN CONSUMPTION SHALL COMPLY WITH AB 1953 FOR LEAD CONTENT.
9. REFER TO ARCHITECTURAL DRAWING FOR EXACT LOCATIONS OF FIXTURES, EQUIPMENT, ETC. DO NOT SCALE FROM PLUMBING DRAWINGS.
10. ALL WALL CLEAN-OUTS SHALL BE ACCESSIBLE BY AN ACCESS PANEL.
11. PROVIDE A DOUBLE EXTERIOR CLEAN-OUT (DFCO) ON ALL SANITARY LINES EXITING THE BUILDING.
12. ALL FLOOR DRAINS AND FLOOR SINKS SHALL BE PROVIDED WITH A TRAP PRIMER.
13. FIXTURES DESIGNATED AS ADA ACCESSIBLE BY ARCHITECT SHALL BE INSTALLED AT ADA ACCESSIBLE HEIGHT PER ARCHITECTURAL DETAILS.
14. ALL DOMESTIC COLD AND HOT WATER TAKE-OFFS SHALL HAVE AN ISOLATION SHUT-OFF VALVE.
15. CONTRACTOR SHALL DEWATER ANY AREA AT OR BELOW GRADE PRIOR TO SETTING EQUIPMENT.
16. ANY AND ALL WATER PIPING EXPOSED TO OUTSIDE ELEMENTS SHALL BE INSULATED TO PREVENT FREEZING.
17. ALL WORK AND MATERIAL SHALL BE PERFORMED AND INSTALLED IN COMPLIANCE WITH THE FOLLOWING CODES AS ADOPTED BY THE INSPECTION AUTHORITY. NOTHING IN THESE PLANS IS TO BE CONSTUED TO PERMIT WORK NOT CONFORMING TO THESE CODES OR OTHER APPLICABLE PROJECT SPECIFICATIONS:

    A. CALIFORNIA BUILDING CODE - 2022
    B. CALIFORNIA PLUMBING CODE - 2022
    C. CALIFORNIA MECHANICAL CODE - 2022
    D. CALIFORNIA ELECTRICAL CODE - 2022
    E. CALIFORNIA GREEN CODE - 2022
    F. NATIONAL FIRE PROTECTION ASSOCIATION
    G. OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA)

18. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE FACILITY, UTILITIES AND APPURTENANCE CAUSED BY THE WORK IN THEIR SCOPE. CONTRACTOR SHALL RESTORE AND REPAIR ANY DAMAGE AT NO ADDITIONAL COST TO THE OWNERS BY INSTALLATION THE FACILITY OF NEW WORK.
19. CONTRACTOR TO REFER TO AQUATICS DRAWINGS FOR COORDINATION AND/OR WORK NOT SHOWN.

## MEP COMPONENT ANCHORAGE NOTES:

ALL MECHANICAL, PLUMBING AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC, SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTER 13, 26 AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (e.g. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRIC, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

1. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
2. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUND PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

## PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTION 1617A.1.24, 1617A.1.25, AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., OSHPD OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO START OF AND DURING THE HANGING AND BRACING OF DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP ☐ MD ☐ PP ☒ E ☐ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES & DETAILS.

MP ☐ MD ☐ PP ☐ E ☐ OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM #) #_____.

## DRAWING INDEX


| SHEET | DESCRIPTION |
|---|---|
| P0.0 | PLUMBING SHEET INDEX, LEGEND AND NOTES |
| P1.2 | PLUMBING ENLARGED SITE PLAN |
| P2.1 | OVERALL PLUMBING FLOOR PLANS - BLDG "A" & BLDG "B" - WASTE & VENT |
| P2.2 | OVERALL PLUMBING FLOOR PLANS - BLDG "A" & BLDG "B" - WATER & GAS |
| P3.1 | ENLARGED PLUMBING PLANS - BLDG "A" |
| P3.2 | ENLARGED PLUMBING PLANS - BLDG "B" |
| P4.1 | OVERALL PLUMBING ROOF PLANS - BLDG "A" & BLDG "B" |
| P5.1 | PLUMBING SCHEDULES |
| P6.1 | PLUMBING DETAILS |
| P6.2 | PLUMBING DETAILS |


## ABBREVIATIONS

NOTE: 1. ALL ABBREVIATIONS MAY NOT BE USED ON THESE DRAWINGS.

| | | | |
|---|---|---|---|
| AAP | AREA ALARM PANEL | MH | MANHOLE |
| AAV | AUTOMATIC AIR VENT | MS | MOP SINK |
| A.F.F. | ABOVE FINISHED FLOOR | N.C. | NORMALLY CLOSED |
| AP | ACCESS PANEL | NIC | NOT IN CONTRACT |
| B.F.F. | BELOW FINISHED FLOOR | N.O. | NORMALLY OPEN |
| BFP | BACKFLOW PREVENTER | O.F./C.I. | OWNER FURNISHED/CONTRACTOR INSTALLED |
| BOB | BOTTOM OF BEAM | O.F./O.I. | OWNER FURNISHED/OWNER INSTALLED |
| BOP | BOTTOM OF PIPE | OFD | OVERFLOW DRAIN |
| BTUH | BRITISH THERMAL UNITS PER HOUR | PH | PHASE |
| CA | COMPRESSED AIR | PIV | POST INDICATOR VALVE |
| C/C | CUT AND CAP | PRV | PRESSURE REDUCING VALVE |
| CFH | CUBIC FEET PER HOUR | RD | ROOF DRAIN |
| CFS | CUBIC FEET PER SECOND | RE: | REFER TO |
| CI | CAST IRON | R.I.C. | ROUGH-IN AND CONNECT |
| CLG | CEILING | RO | REVERSE OSMOSIS |
| CO | CLEANOUT | RPBFP | REDUCED PRESSURE BACKFLOW PREVENTER |
| CONN | CONNECTION | RPM | REVOLUTIONS PER MINUTE |
| CONT. | CONTINUATION | RVB | REFRIGERATOR VALVE BOX |
| DF | DRINKING FOUNTAIN | SD | STORM DRAIN |
| DPV | DRY PIPE VALVE | S.F. | SQUARE FEET |
| DWG. | DRAWING | SIA. | SIAMESE |
| EA | EACH | SK | SINK |
| EL. | ELEVATION | T.O.P. | TOP OF PIPE |
| EDF | ELECTRIC DRINKING FOUNTAIN | TP | TRAP PRIMER |
| FCO | FLOOR CLEANOUT | TYP | TYPICAL |
| FD | FLOOR DRAIN | U | URINAL |
| FDV | FIRE DEPARTMENT VALVE | U/F | UNDERFLOOR |
| F.F. | FINISHED FLOOR | U/S | UNDERSLAB |
| FHC | FIRE HOSE CABINET | VAC. BRKR. | VACUUM BREAKER |
| F.L. | FLOW LINE | VIF | VERIFY IN FIELD |
| FS | FLOOR SINK | VTR | VENT THRU ROOF |
| FT | FEET | WC | WATER CLOSET |
| FU | FIXTURE UNITS | WCO | WALL CLEANOUT |
| GC | GENERAL CONTRACTOR | WH | WALL HYDRANT |
| GPH | GALLONS PER HOUR | WMB | WASHING MACHINE BOX |
| GPM | GALLONS PER MINUTE | YH | YARD HYDRANT |
| HB | HOSE BIBB | ZV | ZONE VALVE |
| HP | HORSEPOWER | (A) | ITEM NOTED TO BE ABANDONED |
| I.E. | INVERT ELEVATION | (D) | ITEM NOTED TO BE DEMOLISHED |
| KW | KILOWATTS | (E) | EXISTING ITEM |
| LAV | LAVATORY | (N) | NEW ITEM |
| MAP | MASTER ALARM PANEL | (R) | ITEM NOTED TO BE RELOCATED |
| MECH | MECHANICAL | | |

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**CENTENNIAL HIGH SCHOOL AQUATICS CENTER**

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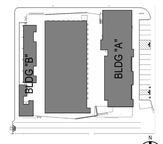


KEY PLAN NORTH: PLAN

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**PLUMBING SHEET INDEX, LEGEND AND NOTES**

**P0.0**

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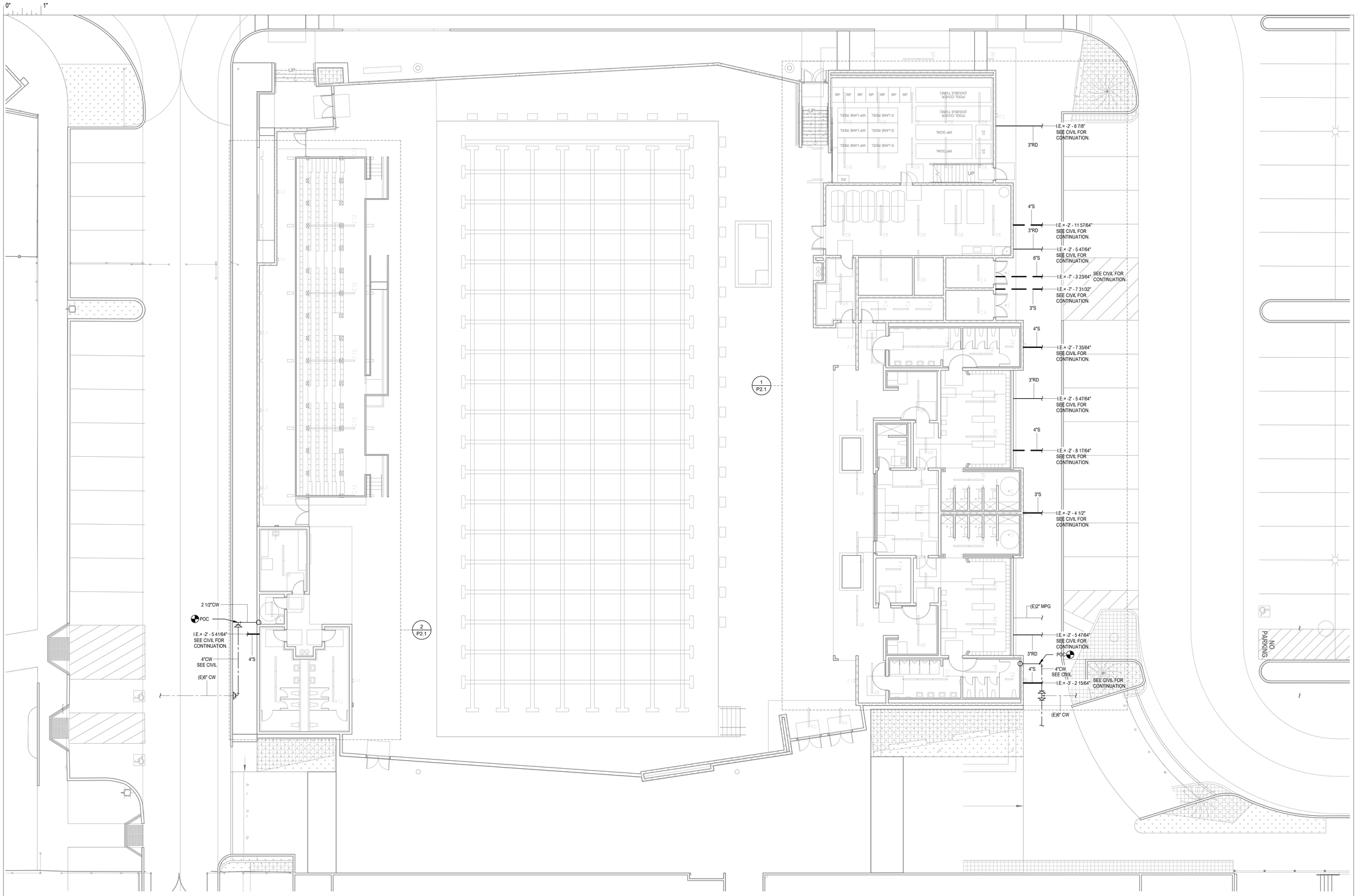
P1.2 - PLUMBING ENLARGED SITE PLAN

0" 1"

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ENLARGED SITE PLAN 1
1" = 10'-0"

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# CENTENNIAL HIGH SCHOOL
# AQUATICS CENTER

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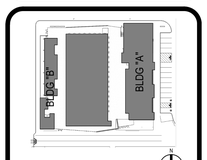


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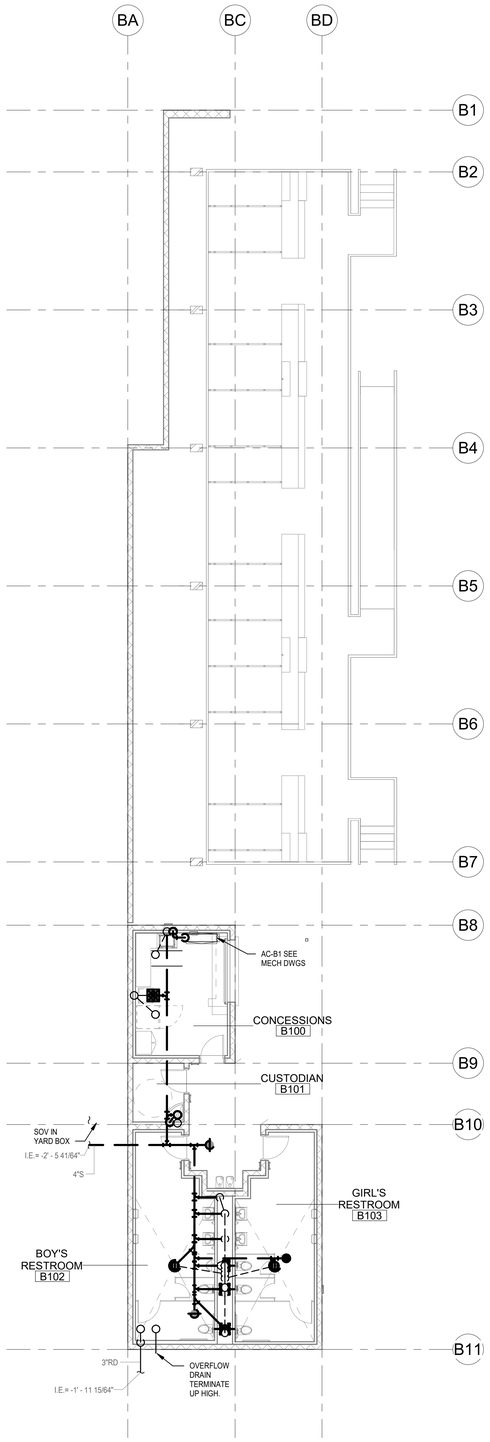
## PLUMBING ENLARGED SITE PLAN

# P1.2

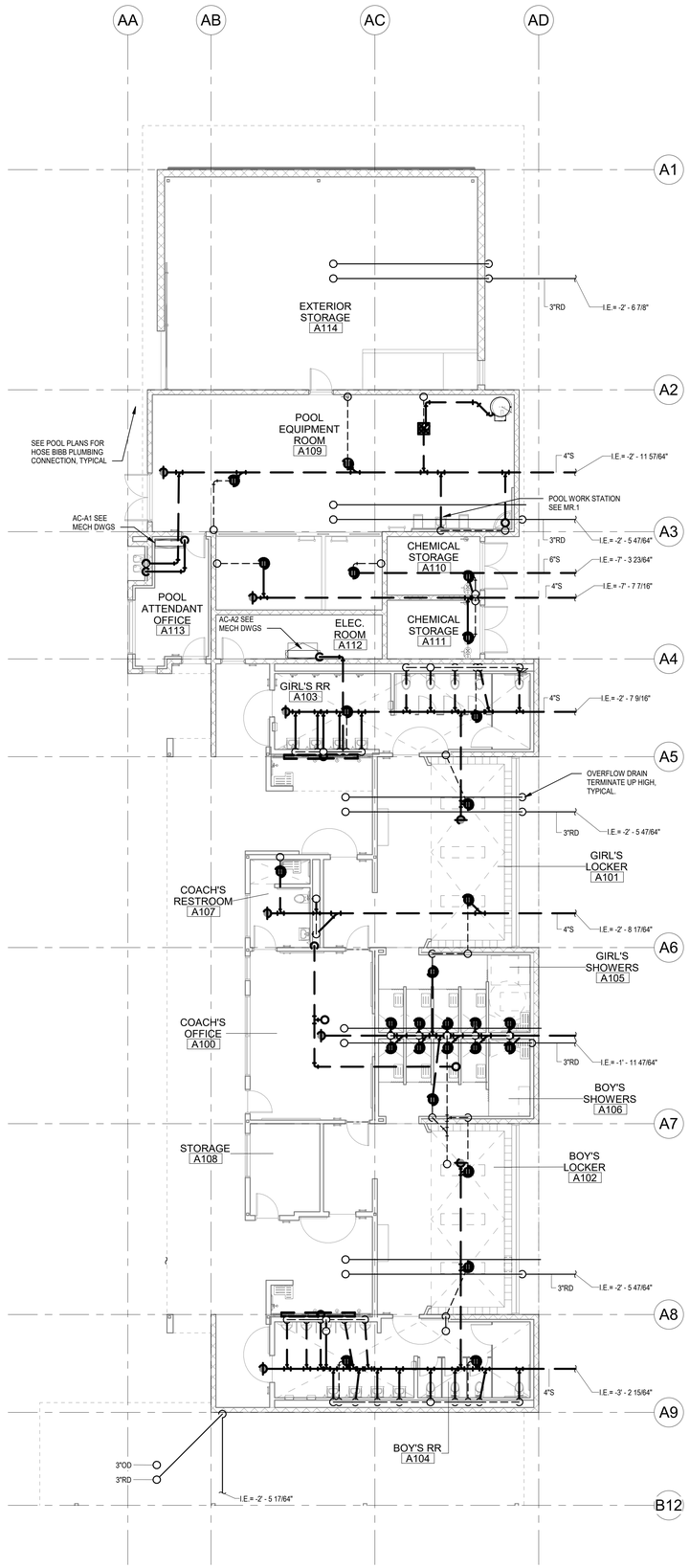
P2.1 - OVERALL PLUMBING FLOOR PLANS - BLDG "A" & BLDG "B" - WASTE & VENT

0" 1"




NORTH

BLDG "B" - WASTE, VENT AND CONDENSATE 2
1/8" = 1'-0"

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BLDG "A" - WASTE, VENT AND CONDENSATE 1
1/8" = 1'-0"

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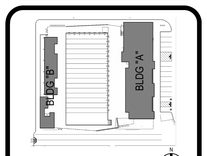


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# OVERALL PLUMBING FLOOR PLANS - BLDG "A" & BLDG "B" - WASTE & VENT

P2.1

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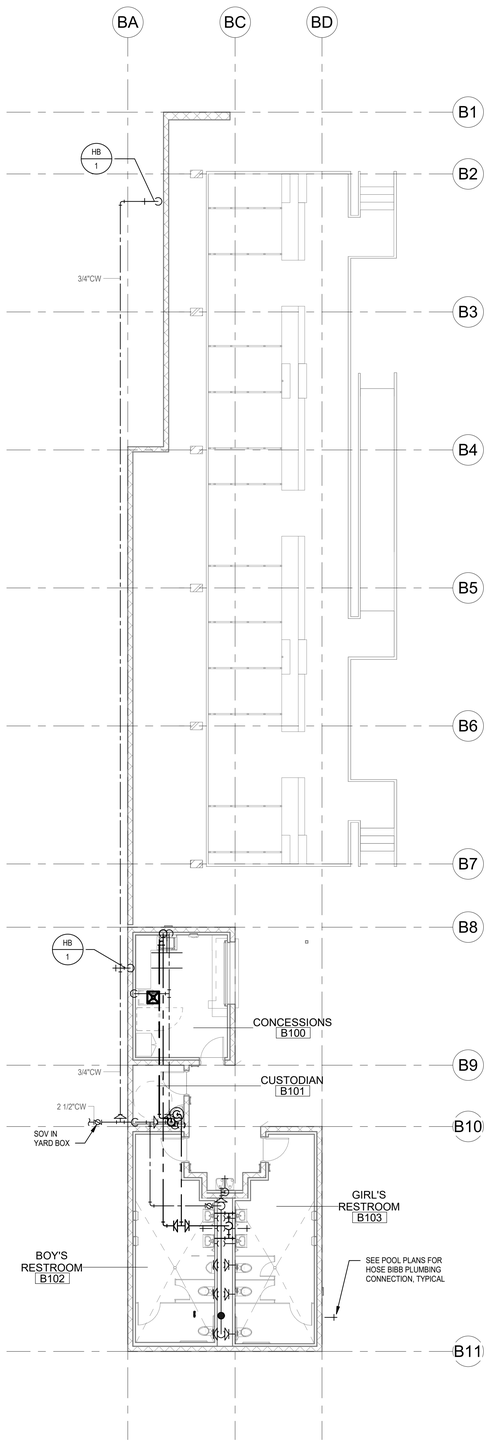
P2.2 - OVERALL PLUMBING FLOOR PLANS - BLDG "A" & BLDG "B" - WATER & GAS

0" 1"

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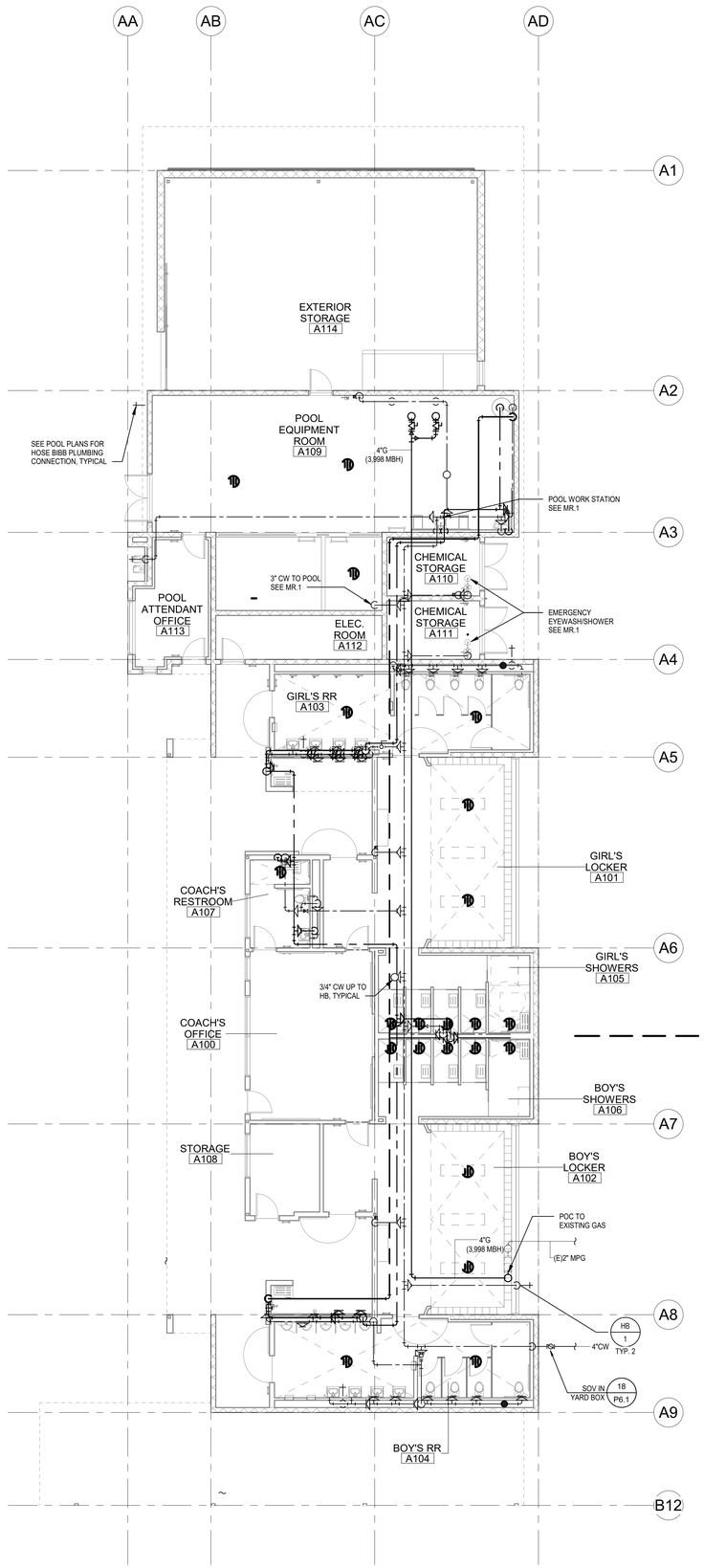
BLDG "B" - GAS, COLD AND HOT WATER
1/8" = 1'-0"
2




NORTH

BLDG "A" - GAS, COLD AND HOT WATER
1/8" = 1'-0"
1

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**CENTENNIAL HIGH SCHOOL**
**AQUATICS CENTER**

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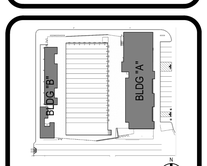


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**OVERALL PLUMBING FLOOR PLANS - BLDG "A" & BLDG "B" - WATER & GAS**

**P2.2**

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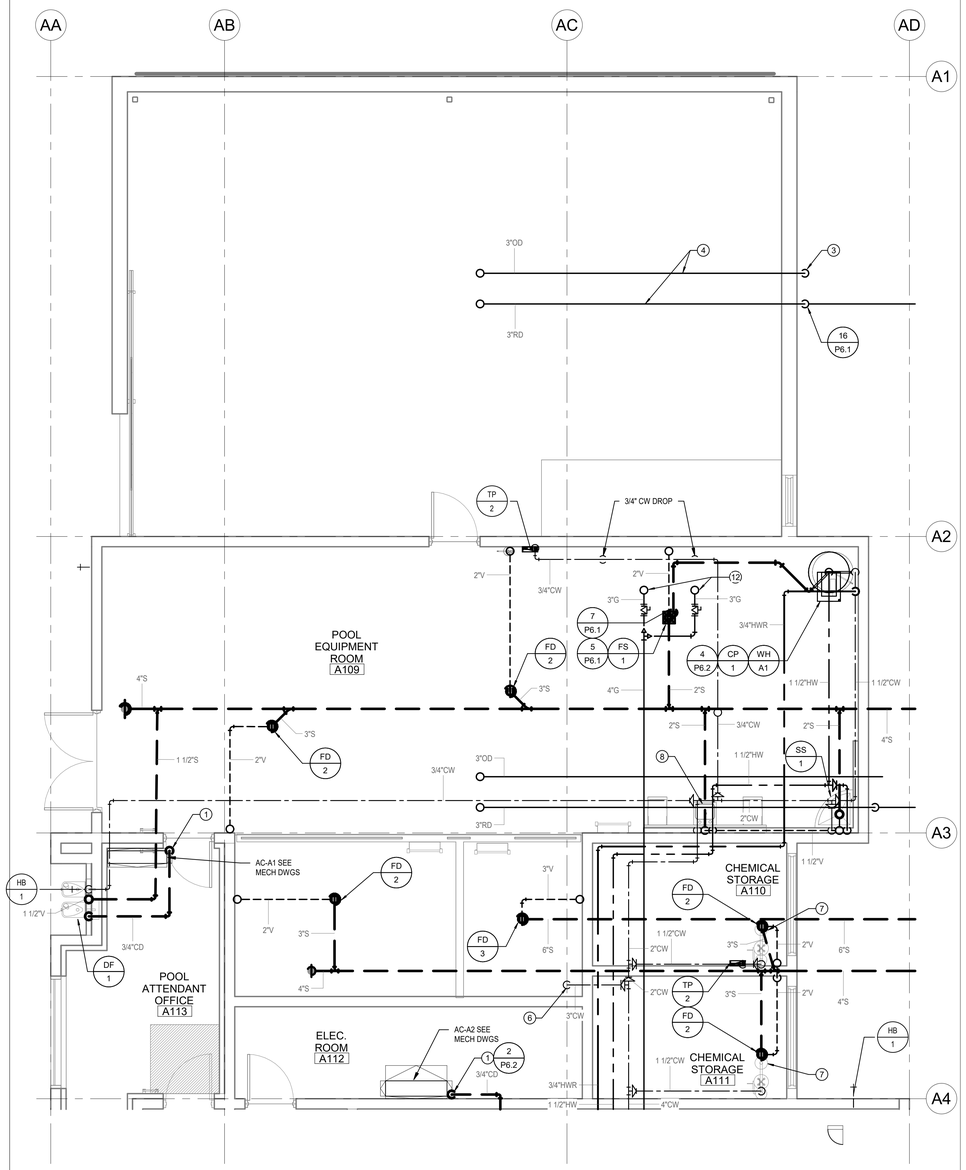
P3.1 - ENLARGED PLUMBING PLANS - BLDG "A"

0" 1"

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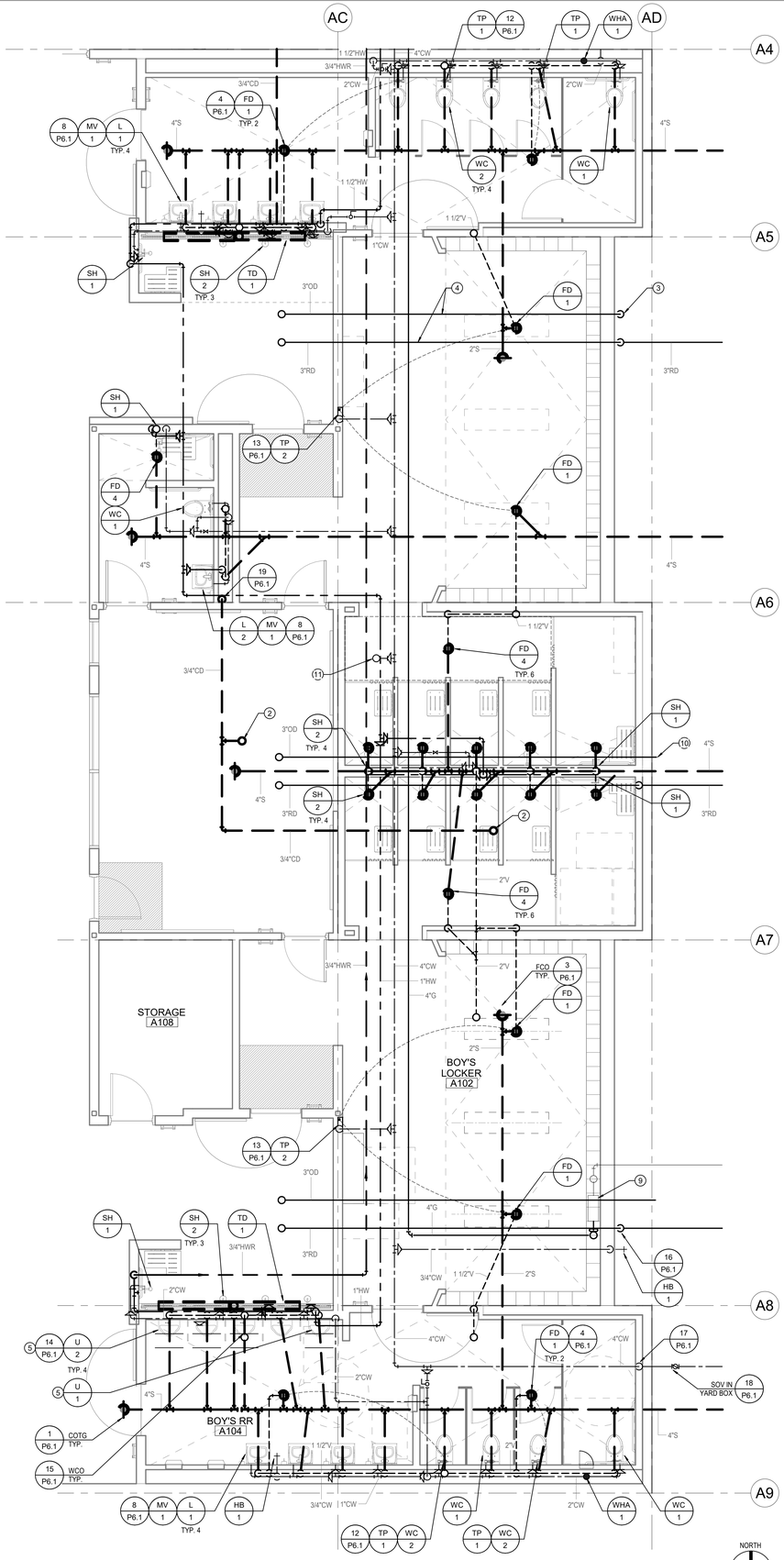
ENLARGED BLDG "A" - POOL EQPT ROOM, STORAGE ROOMS, AND ELECTRIC ROOM
1/4" = 1'-0" **2**

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ENLARGED BLDG "A" - RESTROOMS, LOCKERS, AND SHOWERS
1/4" = 1'-0" **1**

## KEY NOTES

1. CONDENSATE PUMPED TO CEILING BEFORE ROUTING TO TERMINATION. SLOPE PIPE IN CEILING 1/8" PER FOOT.
2. 3/4" CONDENSATE UP TO ROOF FOR MECHANICAL UNIT.
3. OVERFLOW DRAIN ELBOW DOWN AND TERMINATE TO SOFFIT. DRIP TO GRADE.
4. ROOF DRAIN AND OVERFLOW DRAIN PIPING ROUTED BELOW ROOF, TYPICAL.
5. PROVIDE 1-1/2" STUB FOR EACH URINAL FOR FUTURE USE.
6. 3" COLD WATER FOR POOL CONSULTANT. SEE MR.1
7. 1-1/2" COLD WATER FOR EMERGENCY EYEWASH/SHOWER. SEE MR.1
8. 1" HOT/COLD WATER TO POOL WORK STATION. SEE MR.1
9. EXISTING GAS METER TO REMAIN. PROVIDE NEW 4" GAS LINE FOR THE POOL WATER HEATERS.
10. OVERFLOW DRAIN TERMINATE HIGH ON WALL.
11. 3/4" COLD WATER UP TO HOSE BIBB HYDRANT ON ROOF.
12. 3" GAS TO POOL WATER HEATERS. SEE MR.1

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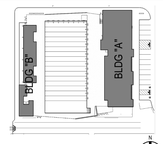


KEY PLAN NORTH: PLAN

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## ENLARGED PLUMBING PLANS - BLDG "A"

# P3.1

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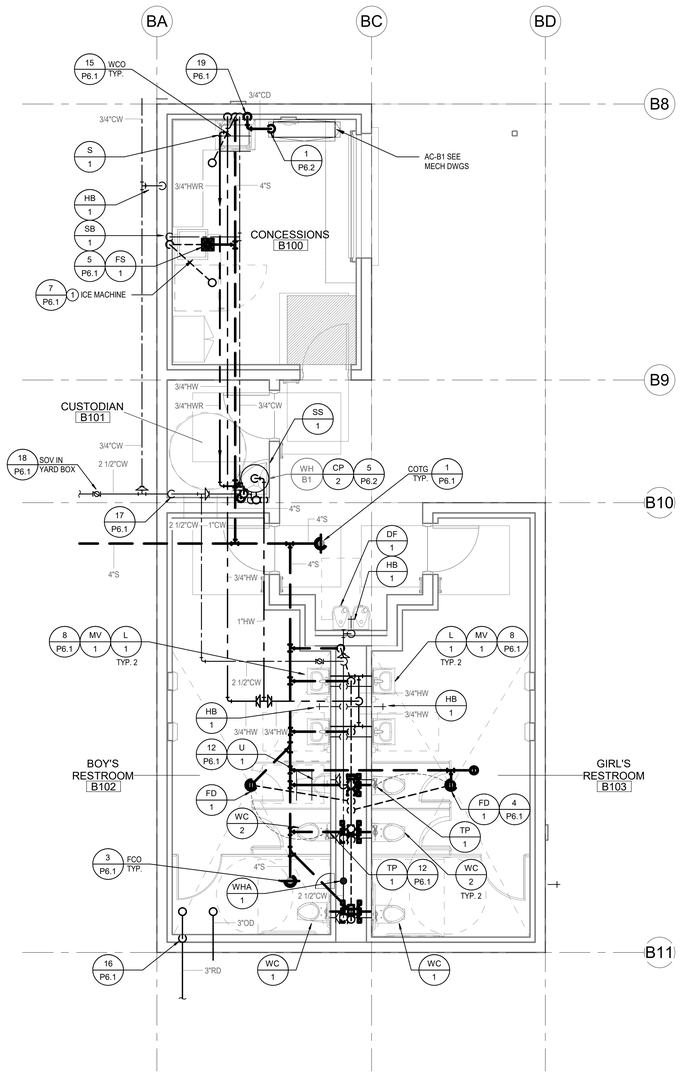
0" 1"




KEY NOTES

NORTH

BLDG "B" - RESTROOMS, CONCESSIONS & CUSTODIAN
1/4" = 1'-0"

1

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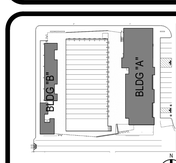


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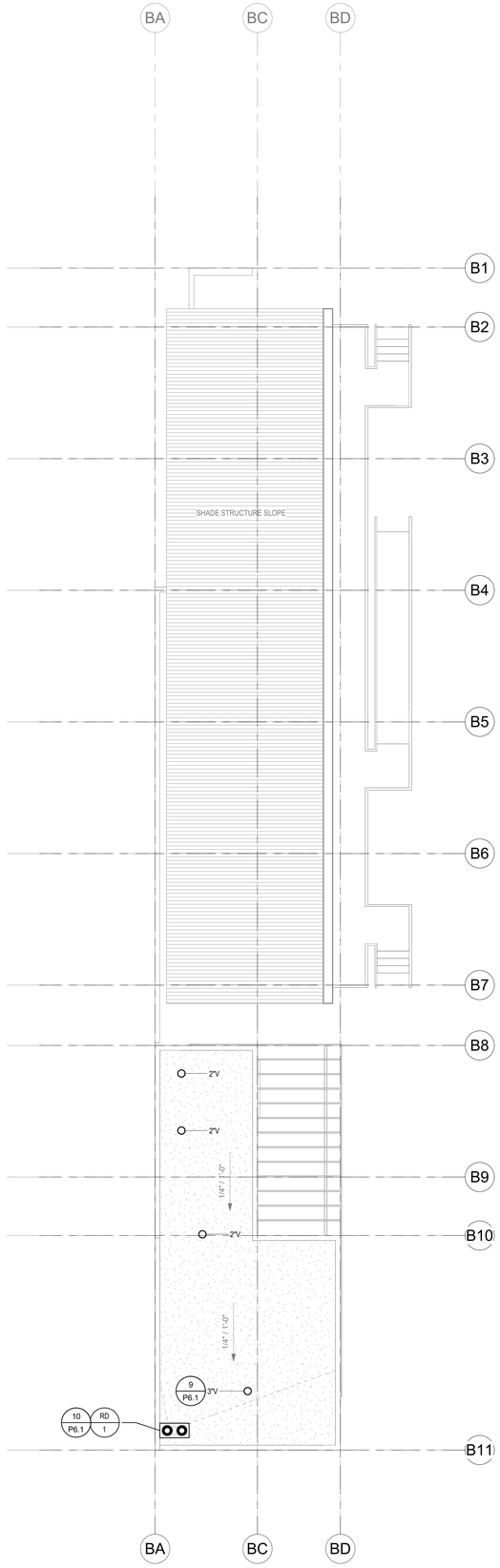
ENLARGED PLUMBING PLANS - BLDG "B"

P3.2

P4.1 - OVERALL PLUMBING ROOF PLANS - BLDG "A" & BLDG "B"

0" 1"

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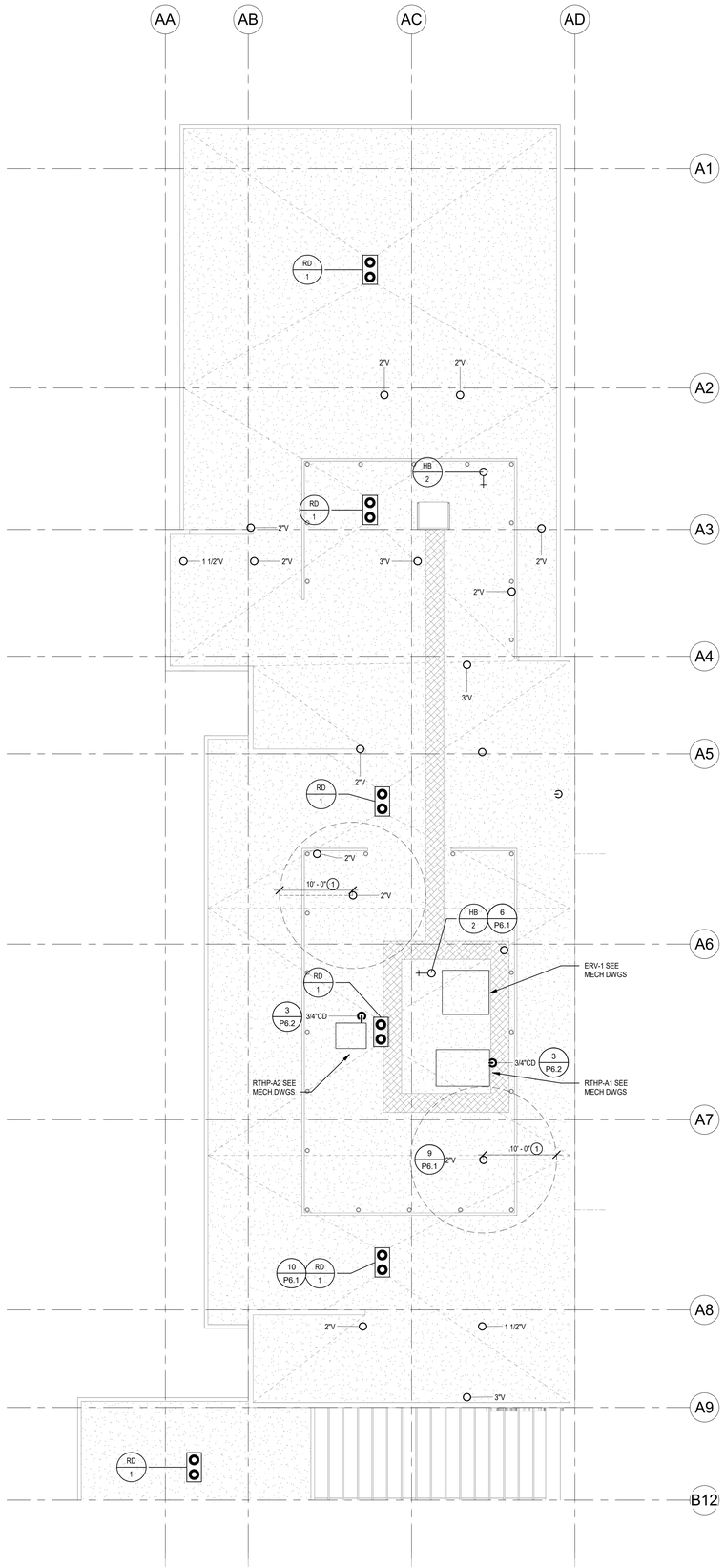
OVERALL ROOF PLAN - BLDG "B" 2
1/8" = 1'-0"




NORTH

OVERALL ROOF PLAN - BLDG "A" 1
1/8" = 1'-0"

## KEY NOTES

1. PROVIDE 10'-0" MINIMUM CLEARANCE BETWEEN VENT TERMINATION AND OUTSIDE AIR INTAKES.

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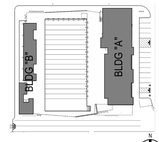


KEY PLAN NORTH: PLAN

Consultant

REGISTERED PROFESSIONAL ENGINEER
REX DAVID WANG
No.M36155
Exp.09-30-2024
CIVIL
STATE OF CALIFORNIA

FOR PLAN CHECK ONLY

Architect

CLIENT
CNUSD

| DATE | PROJECT NUMBER |
|---|---|
| 2/24/2023 | 220306 |

REVISIONS

| No. | Description | Date |
|---|---|---|
| | | |

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**OVERALL PLUMBING ROOF PLANS - BLDG "A" & BLDG "B"**

**P4.1**

FILE PATH: Z:\Projects\...
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# ROOF DRAIN SIZING

| SIZE OF PIPE | FLOW ($^1/_4$ inch per foot slope) | MAXIMUM ALLOWABLE HORIZONTAL PROJECTED ROOF AREAS AT VARIOUS RAINFALL RATES (square feet) | | | | | |
|---|---|---|---|---|---|---|---|
| inches | gpm | 1 (in/h) | 2 (in/h) | 3 (in/h) | 4 (in/h) | 5 (in/h) | 6 (in/h) |
| 3 | 48 | 4640 | 2320 | 1546 | 1160 | 928 | 773 |
| 4 | 110 | 10 600 | 5300 | 3533 | 2650 | 2120 | 1766 |
| 5 | 196 | 18 880 | 9440 | 6293 | 4720 | 3776 | 3146 |

# DOMESTIC WATER DEMAND AND PIPE SIZING

PLAN CHECK# DATE: 04-26-2023 PREPARED BY: B.W.
PROJECT: CENTENNIAL HS AQUATICS - BUILDING B LOCATION : FOLSOM, CA
Water Meter Size WELL BY CIVIL
Total Fixture Units: 46.0 TOTAL GPM: 49.0
Total Distance from water meter to most remote plbg. fixture. 400 ft.
Total rise for head loss 15 ft. x 0.43 . . . 6.45 PSI
PSI required for water closet/urinal
(*F.V.=25.0 PSI, F.T.-8.0 PSI) . . . 25.0 PSI
PSI flow loss through water meter (Chart A-1) . . . 0 PSI
PSI flow loss through backflow preventer
(RP=12.0 PSI, D.C.=12.0 PSI) . . . 0 PSI
TOTAL SYSTEM LOSS . . . 31.45 PSI
MINIMUM PSI available @ jobsite . . . 40.0 PSI
Total system loss in PSI . . . 31.45 PSI
Remaining PSI available (if negative use booster pump) . . . 8.55 PSI
Booster pump PSI . . . - PSI
Total remaining PSI available . . . 8.55 PSI
PSI available 6.4 / 300 Total Feet = 0.021 x 100 = 2.1 PSI/100 FT
Use line 2.1 On Chart
VELOCITIES SHALL NOT EXCEED 8 FT/SEC.

F.V. = Flushometer Valve F.T. = Flush Tank CPC 2022, APPENDIX A

| PIPE SIZE (IN.) | WILL DELIVER (GPM) | FOR F.V. (F.U.) | FOR F.T. (F.U.) |
|---|---|---|---|
| 4" | 257.8 | 1401 | 1401 |
| 3" | 122.8 | 384 | 495 |
| 2-1/2" | 76.9 | 136 | 259 |
| 2" | 43.5 | 35 | 103 |
| 1-1/2" | 21.0 | -- | 32 |
| 1-1/4" | 13.3 | -- | 18 |
| 1" | 7.6 | -- | 10 |
| 3/4" | 3.8 | -- | 4 |
| 1/2" | 1.5 | -- | 1 |

# COLD WATER FIXTURE UNITS - BUILDING A

| NO. OF FIX. | TYPE OF FIXTURE | F.U. / FIX. | TOTAL FIXTURE UNITS |
|---|---|---|---|
| 5 | WATER CLOSET (F. VALVE) | 5.0 | 25.0 |
| 0 | WATER CLOSET (F. TANK) | 2.5 | 0.0 |
| 1 | URINAL | 4.0 | 4.0 |
| 4 | LAVATORY | 1.0 | 4.0 |
| 1 | SINK | 2.0 | 2.0 |
| 1 | MOP SINK | 3.0 | 3.0 |
| 1 | HOSE BIBB | 2.5 | 2.5 |
| 4 | HOSE BIBB (EACH ADDITIONAL) | 1.0 | 4.0 |
| 1 | DRINKING FOUNTAIN (2 BUBBLER) | 1.0 | 1.0 |
| 0 | DISHWASHER (COMM.) | 2.0 | 0.0 |
| 0 | DISHWASHER | 1.5 | 0.0 |
| 0 | SHOWER | 2.0 | 0.0 |
| 1 | SUPPLY BOX | 0.5 | 0.5 |
| 0 | 3-COMPARTMENT SINK | 2.5 | 0.0 |
| 0 | HAND SINK | 1.0 | 0.0 |
| 0 | EMERGENCY SHOWER / EYE WASH | 6.0 | 0.0 |
| | | TOTAL | 46.0 |

PER CPC 2022, TABLE A-103.1, APPX, A

# DRAINAGE FIXTURE UNITS - BUILDING A

| NO. OF FIX. | TYPE OF FIXTURE | F.U. / FIX. | TOTAL FIXTURE UNITS |
|---|---|---|---|
| 5 | WATER CLOSET (F. VALVE) | 4.0 | 20.0 |
| 0 | WATER CLOSET (F. TANK) | 4.0 | 0.0 |
| 1 | URINAL | 2.0 | 2.0 |
| 4 | LAVATORY | 1.0 | 4.0 |
| 1 | SINK | 2.0 | 2.0 |
| 1 | MOP SINK | 3.0 | 3.0 |
| 0 | SERVICE SINK | 4.0 | 0.0 |
| 2 | FLOOR DRAINS | 2.0 | 4.0 |
| 1 | FLOOR SINKS | 2.0 | 2.0 |
| 1 | DRINKING FOUNTAIN (2 BUBBLER) | 2.0 | 2.0 |
| 0 | DISHWASHER | 2.0 | 0.0 |
| 0 | SHOWER | 2.0 | 0.0 |
| 0 | 3-COMPARTMENT SINK | 3.0 | 0.0 |
| 0 | HAND SINK | 1.0 | 0.0 |
| 0 | EYE WASH | 2.0 | 0.0 |
| | | TOTAL | 39.0 |

PER CPC 2022, TABLE 702.1

# H.W. DEMAND BUILDING B

| ITEM | QTY. | GPH | TOTAL GPH |
|---|---|---|---|
| LAVATORY | 4 | 5.0 | 20.0 |
| MOP SINK | 1 | 20.0 | 20.0 |
| SINK | 1 | 10.0 | 10.0 |
| | | | |
| | | | |
| TOTAL GPH | | | 50.0 |
| MAXIMUM DEMAND | | | 50.0 |
| MAXIMUM DEMAND FACTOR (%) X MAX. DEMAND (GPH) | | 35 | 17.5 |
| MAXIMUM STORAGE FACTOR (%) X | | 1.0 | 17.5 |
| | | | |
| WATER HEATER TO MEET GPH @ 80° TEMP RISE | | | 17.5 |
| WATER HEATER(S) STORAGE GALLONS | | | 200 |

# DOMESTIC WATER DEMAND AND PIPE SIZING

PLAN CHECK# DATE: 04-26-2023 PREPARED BY: B.W.
PROJECT: CENTENNIAL HS AQUATICS - BUILDING A LOCATION : FOLSOM, CA
Water Meter Size WELL BY CIVIL
Total Fixture Units: 141.5, additional 70 GPM from Pool Consultant TOTAL GPM: 162.0
Total Distance from water meter to most remote plbg. fixture. 300 ft.
Total rise for head loss 15 ft. x 0.43 . . . 6.45 PSI
PSI required for water closet/urinal
(*F.V.=25.0 PSI, F.T.-8.0 PSI) . . . 25.0 PSI
PSI flow loss through water meter (Chart A-1) . . . 0 PSI
PSI flow loss through backflow preventer
(RP=12.0 PSI, D.C.=12.0 PSI) . . . 0 PSI
TOTAL SYSTEM LOSS . . . 31.45 PSI
MINIMUM PSI available @ jobsite . . . 40.0 PSI
Total system loss in PSI . . . 31.45 PSI
Remaining PSI available (if negative use booster pump) . . . 8.55 PSI
Booster pump PSI . . . - PSI
Total remaining PSI available . . . 8.55 PSI
PSI available 6.4 / 300 Total Feet = 0.021 x 100 = 2.1 PSI/100 FT
Use line 2.1 On Chart
VELOCITIES SHALL NOT EXCEED 8 FT/SEC.

F.V. = Flushometer Valve F.T. = Flush Tank CPC 2022, APPENDIX A

| PIPE SIZE (IN.) | WILL DELIVER (GPM) | FOR F.V. (F.U.) | FOR F.T. (F.U.) |
|---|---|---|---|
| 4" | 298.6 | 1746 | 1746 |
| 3" | 143.4 | 509 | 601 |
| 2-1/2" | 89.8 | 195 | 326 |
| 2" | 50.8 | 50 | 130 |
| 1-1/2" | 24.5 | 8 | 42 |
| 1-1/4" | 15.5 | -- | 23 |
| 1" | 8.9 | -- | 12 |
| 3/4" | 4.4 | -- | 4 |
| 1/2" | 1.7 | -- | 1 |

# COLD WATER FIXTURE UNITS - BUILDING A

| NO. OF FIX. | TYPE OF FIXTURE | F.U. / FIX. | TOTAL FIXTURE UNITS |
|---|---|---|---|
| 10 | WATER CLOSET (F. VALVE) | 5.0 | 50.0 |
| 0 | WATER CLOSET (F. TANK) | 2.5 | 0.0 |
| 5 | URINAL | 4.0 | 20.0 |
| 9 | LAVATORY | 1.0 | 9.0 |
| 1 | SINK | 2.0 | 2.0 |
| 1 | MOP SINK | 3.0 | 3.0 |
| 1 | HOSE BIBB | 2.5 | 2.5 |
| 4 | HOSE BIBB (EACH ADDITIONAL) | 1.0 | 4.0 |
| 1 | DRINKING FOUNTAIN (2 BUBBLER) | 1.0 | 1.0 |
| 0 | DISHWASHER (COMM.) | 2.0 | 0.0 |
| 0 | DISHWASHER | 1.5 | 0.0 |
| 19 | SHOWER | 2.0 | 38.0 |
| 0 | SUPPLY BOX | 0.5 | 0.0 |
| 0 | 3-COMPARTMENT SINK | 2.5 | 0.0 |
| 0 | HAND SINK | 1.0 | 0.0 |
| 2 | EMERGENCY SHOWER / EYE WASH | 6.0 | 12.0 |
| | | TOTAL | 141.5 |

PER CPC 2022, TABLE A-103.1, APPX, A

# DRAINAGE FIXTURE UNITS - BUILDING A

| NO. OF FIX. | TYPE OF FIXTURE | F.U. / FIX. | TOTAL FIXTURE UNITS |
|---|---|---|---|
| 10 | WATER CLOSET (F. VALVE) | 4.0 | 40.0 |
| 0 | WATER CLOSET (F. TANK) | 4.0 | 0.0 |
| 5 | URINAL | 2.0 | 10.0 |
| 9 | LAVATORY | 1.0 | 9.0 |
| 1 | SINK | 2.0 | 2.0 |
| 1 | MOP SINK | 3.0 | 3.0 |
| 0 | SERVICE SINK | 4.0 | 0.0 |
| 15 | FLOOR DRAINS | 2.0 | 30.0 |
| 1 | FLOOR SINKS | 2.0 | 2.0 |
| 1 | DRINKING FOUNTAIN (2 BUBBLER) | 2.0 | 2.0 |
| 0 | DISHWASHER | 2.0 | 0.0 |
| 19 | SHOWER | 2.0 | 38.0 |
| 0 | 3-COMPARTMENT SINK | 3.0 | 0.0 |
| 0 | HAND SINK | 1.0 | 0.0 |
| 2 | EYE WASH | 2.0 | 4.0 |
| | | TOTAL | 140.0 |

PER CPC 2022, TABLE 702.1

# H.W. DEMAND BUILDING A

| ITEM | QTY. | GPH | TOTAL GPH |
|---|---|---|---|
| LAVATORY | 9 | 5.0 | 45.0 |
| MOP SINK | 1 | 20.0 | 20.0 |
| SINK | 1 | 10.0 | 10.0 |
| SHOWER | 19 | 25 | 475.0 |
| | | | |
| | | | |
| TOTAL GPH | | | 550.0 |
| MAXIMUM DEMAND | | | 550.0 |
| MAXIMUM DEMAND FACTOR (%) X MAX. DEMAND (GPH) | | 35 | 192.5 |
| MAXIMUM STORAGE FACTOR (%) X | | 1.0 | 192.5 |
| | | | |
| WATER HEATER TO MEET GPH @ 80° TEMP RISE | | | 192.5 |
| WATER HEATER(S) STORAGE GALLONS | | | 200 |

# PLUMBING FIXTURE SCHEDULE

| MARK | FIXTURE | S or W | V | CW | HW | DESCRIPTION |
|---|---|---|---|---|---|---|
| WC 1 | WATER CLOSET | 3" | 2" | 1-1/4" | --- | KOHLER K-4325 KINGSTON WALL MOUNTED WATER CLOSET WITH SLOAN ROYAL 111 MANUAL FLUSH VALVE WITH METAL COVER AND Z59555S-EL OPEN-FRONT SEAT. 1.28 GPF. ZURN ZN1201-N, 4 NARROW WATER CLOSET CARRIER. CBC COMPLIANT FOR ACCESS. MOUNT FLUSH VALVE HANDLE ON WIDE SIDE OF STALL. |
| WC 2 | WATER CLOSET | 3" | 2" | 1-1/4" | --- | KOHLER K-4325 KINGSTON WALL MOUNTED WATER CLOSET WITH SLOAN ROYAL 111 MANUAL FLUSH VALVE WITH METAL COVER AND Z59555S-EL OPEN-FRONT SEAT. 1.28 GPF. ZURN ZN1201-N, 4 NARROW WATER CLOSET CARRIER. |
| U 1 | WATERFREE URINAL | 2" | 1-1/2" | --- | --- | SLOAN HYBRID W/ JETRISE. MODEL HYB-1000/HYB-4000. PLUMB FOR FUTURE WATERWASTE CONNECTION. ALL URINALS SHALL BE WATERFREE. CBC COMPLIANT FOR ACCESS. |
| U 2 | WATERFREE URINAL | 2" | 1-1/2" | --- | --- | SLOAN HYBRID W/ JETRISE. MODEL HYB-1000/HYB-4000. PLUMB FOR FUTURE WATER/WASTE CONNECTION. ALL URINALS SHALL BE WATERFREE. |
| L 1 | LAVATORY | 2" | 1-1/2" | 1/2" | 1/2" | KOHLER K-2005 KINGSTON, WALL-HUNG, 20"X18" VITREOUS CHINA WITH BACKSPLASH & WALL BRACKET, HOLES ON 4" CENTERS, CHICAGO 3400-E39VPABCP METERING FAUCET. ZURN Z1253 WALL MOUNT CARRIER WITH CONCEALED ARMS AND 1/2" BOLTS MOUNTED PER DETAIL 8/P6.1. CONTRACTOR SHALL COORDINATE WITH WALL FRAMER TO AVOID CONFLICT WITH CARRIER. ADJUSTED TO STAY OPEN 10 SECONDS WITH (0.35 GPM) FLOW RESTRICTOR, PERFORATED GRID DRAIN, P-TRAP, SPEEDWAY COMPRESSION WALL STOP & SUPPLY TUBING. SEE ARCH. SHEETS FOR MOUNTING HEIGHT. CBC COMPLIANT FOR ACCESS. |
| L 2 | LAVATORY (COACH) | 2" | 1-1/2" | 1/2" | 1/2" | KOHLER K-2005 KINGSTON, WALL-HUNG, 20"X18" VITREOUS CHINA WITH BACKSPLASH & WALL BRACKET, HOLES ON 4" CENTERS, MOEN 8422F03 FAUCET WITH 0.35 GPM FLOW. ZURN Z1253 WALL MOUNT CARRIER WITH CONCEALED ARMS AND 1/2" BOLTS MOUNTED PER DETAIL 8/P6.1. CONTRACTOR SHALL COORDINATE WITH WALL FRAMER TO AVOID CONFLICT WITH CARRIER. PERFORATED GRID DRAIN, P-TRAP, SPEEDWAY COMPRESSION WALL STOP & SUPPLY TUBING. SEE ARCH. SHEETS FOR MOUNTING HEIGHT. CBC COMPLIANT FOR ACCESS. |
| S 1 | SINK | 2" | 1-1/2" | 1/2" | 1/2" | JUST CRA-ADA-1931-4-GR, 18 GA. STAINLESS STEEL, SINGLE COMPARTMENT, 19"X31"X6-1/2", 1-HOLE PUNCH WITH CHICAGO 350-E35VPABCP (1.5 GPM) GOOSENECK FAUCET WITH LEVER HANDLE FAUCET, JUST J-ADA-35-FS PERFORATED GRID DRAIN, SPEEDWAY COMPRESSION, P-TRAP, WAL LSTOPS & SUPPLY TUBING. CBC COMPLIANT FOR ACCESS. |
| SS 1 | SERVICE SINK | 3" | 2" | 3/4" | 3/4" | KOHLER 6710 28"X28" ENAMELED CAST IRON CORNER FLOOR MOUNTED WITH REMOVABLE RIM GUARD, CAST BRASS DRAIN BODY STRAINER, CHICAGO 897-CP FAUCET WITH HOSE END, BUCKET HOOK, VACUUM BREAKER, 5' VINYL HOSE. INTEGRAL SHANK STOPS AND WALL BRACE. P-TRAP. |
| SH 1 | SHOWER | FD OR TD | --- | 3/4" | 3/4" | ACORN 410BADA-W SHOWER-WARE WALL MOUNTED 18 GAGE TYPE 304 STAINLESS STEEL SHOWER PANEL WITH ADA COMPLIANT CONTROL VALVE, HANDHELD SHOWER WITH ON/OFF PUSHBUTTON, 60" HOSE, QUICK-DISCONNECT AND SINGLE TEMP 1.6 GPM FLOW CONTROL. SET OUTLET TEMPERATURE AT 110°F. PROVIDE PADDED SEAT WHERE SHOWN ON PLANS. |
| SH 2 | SHOWER | FD OR TD | --- | 3/4" | 3/4" | ACORN 410B-W SHOWER-WARE WALL MOUNTED 18 GAGE TYPE 304 STAINLESS STEEL SHOWER PANEL, SINGLE TEMP 1.6 GPM SHOWER WITH ON/OFF PUSHBUTTON. SET OUTLET TEMPERATURE AT 110°F. PROVIDE PADDED SEAT WHERE SHOWN ON PLANS. |
| TD 1 | TRENCH DRAIN | 3" | 2" | --- | --- | ZURN ZS890 WIDE REVEAL TRENCH DRAIN SYSTEM. 80" LONG X 7" WIDE TYPE 304 STAINLESS STEEL CHANNELS. 3" NO-HUB END OUTLET. |
| FD 1 | FLOOR DRAIN | 2" | 1-1/2" | TP | --- | ZURN ZN415-2NH-5B-P, COATED CAST IRON FLOOR AND SHOWER DRAIN WITH 5" ROUND NICKEL BRONZE STRAINER & NO-HUB OUTLET. TRAP PRIMER CONNECTION. |
| FD 2 | FLOOR DRAIN | 3" | 2" | TP | --- | ZURN ZN415-3NH-5B-AR-P, ACID RESISTING EPOXY COATED CAST IRON FLOOR DRAIN WITH 6" ROUND NICKEL BRONZE STRAINER & NO-HUB OUTLET. TRAP PRIMER CONNECTION. ACID-RESISTANT TRAP AND PIPING. |
| FD 3 | FLOOR DRAIN | 6" | 3" | --- | --- | ZURN ZN415-6P-10B, COATED CAST IRON FLOOR DRAIN WITH 10" ROUND NICKEL BRONZE STRAINER & THREADED OUTLET. |
| FD 4 | FLOOR DRAIN | 2" | 1-1/2" | --- | --- | ZURN ZN415-2NH-5B-P, COATED CAST IRON FLOOR AND SHOWER DRAIN WITH 5" ROUND NICKEL BRONZE STRAINER & NO-HUB OUTLET. |
| FS 1 | FLOOR SINK | 2" | 1-1/2" | --- | --- | ZURN Z1910-2NH-KC-32-2, COATED CAST IRON FLOOR RECEPTOR WITH ACID RESISTANT PAINTED INTERIOR 8" SQUARE TOP, 6" DEEP, DOUBLE DRAINAGE FLANGE, NO-HUB OUTLET AND ALUMINUM DOME STRAINER, P-TRAP, HALF GRATE. |
| MV 1 | MIXING VALVE | --- | --- | 1/2" | 1/2" | BRADLEY S59-4000 POINT OF USE MIXING VALVE, INLINE CHECK VALVES. ADJUSTABLE SET POINT TEMPERATURE CONTROL, SET OUTLET TEMPERATURE AT 110°F. 0.35 GPM MINIMUM FLOW. |
| WHA 1 | WATER HAMMER ARRESTOR | --- | --- | VARIES | --- | SIOUX CHIEF 650 SERIES HYDRA-RESTER, SEAMLESS COPPER CHAMBER SUITABLE FOR CONCEALED INSTALLATION, PDI SIZE INDICATED ON PLANS. INSTALL PER MANUFACTURER RECOMMENDATION. INSTALL AT END OF LINE AT ALL QUICK CLOSING FIXTURES. |
| TP 1 | TRAP PRIMER | --- | --- | 1/2" | --- | SLOAN ROYAL TRAP PRIMER CONNECTION TO WATER CLOSET FLUSH VALVE. TRAP PRIMER TO SERVE A SINGLE FLOOR DRAIN. |
| TP 2 | TRAP PRIMER | --- | --- | 1/2" | --- | PRECISION PLUMBING PRODUCTS INC. MPB-500-EMS-24V TRAP PRIMER VALVE WITH DISTRIBUTION UNIT AND INTEGRAL VACUUM BREAKER, PROVIDE INLET BALL VALVE AND ACCESS PANEL. SEE PLANS FOR NO. OF TRAPS SERVED (MAXIUMUM OF 4). |
| HB 1 | HOSE BIBB | --- | --- | 3/4" | --- | WOODFORD 24P-3/4, BRASS FAUCET, SHIELDED LOOSE KEY HANDLE, NON REMOVABLE VACUUM BREAKER, ROUGH CHROME FINISH FOR OUTDOORS; POLISHED CHROME INDOORS. PROVIDE WALL FLANGE AT WALLS. |
| HB 2 | HOSE BIBB | --- | --- | 3/4" | --- | WOODFORD Y24 AT STAND PIPES. BRASS FAUCET, SHIELDED LOOSE KEY HANDLE, NON REMOVABLE VACUUM BREAKER, ROUGH CHROME FINISH FOR OUTDOORS. |
| RD 1 | ROOF/ OVERFLOW DRAIN | --- | --- | --- | --- | ZURN Z164 COMPLETE WITH CAST IRON MEMBRANE CLAMP, CAST IRON DOME GRATES ON ROOF & OVERFLOW DRAIN INLETS. MINIMUM 2" WATER DAM FOR OVERFLOW PIPE. SEE PLUMBING ROOF PLANS FOR SIZE. |
| DF 1 | DRINKING FOUNTAIN | 2" | 1-1/2" | 1/2" | --- | HAWS 1119.14/BP32/1920/6469 WALL-HUNG HIGH-LOW 14 GA. STAINLESS STEEL UNIT WITH PUSH BUTTON BOTTLE FILLER, BACK PANEL AND DROP TRAY. SEE ARCH. SHEETS FOR MOUNTING HEIGHT. CBC COMPLIANT. |
| SB 1 | SUPPLY BOX | --- | --- | 1/2" | --- | SPECIALTY PRODUCTS #OB504 RECESSED METAL WATER SUPPLY BOX WITH SHUT-OFF VALVE. |
| WH A1 | WATER HEATER | --- | --- | 1-1/2" | 1-1/2" | BRADFORD WHITE VR-200-54, 200 GALLON CAPACITY, (3) 18 KW ELEMENTS (54 KW TOTAL), 369 GPH RECOVERY AT 60 DEG F RISE. 480 V/ 3 PH/ 60 HZ. FLA 65.0A. 2450 LBS MAX WEIGHT. |
| WH B1 | WATER HEATER | --- | --- | 3/4" | 3/4" | AO SMITH DEL-20, 20 GALLON CAPACITY, (1) 6.0 KW ELEMENT, 41 GPH RECOVERY AT 60 DEG F RISE. 208 V/ 1 PH/ 60 HZ. FLA 28.8A. 250 LBS MAX WEIGHT. |
| CP 1 | CIRCULATION PUMP | --- | --- | --- | 3/4" | TACO 008, 5 GPM AT 10 FT. OF HEAD, BRONZE CONSTRUCTION WITH FLANGE CONNECTION, 1/25 HP, 115V/ 1 PH. 0.84 AMPS, 3250 RPM. PROVIDE WITH TC-1 TIMER KIT AND AQUASTAT. |
| CP 2 | CIRCULATION PUMP | --- | --- | --- | 3/4" | TACO 006B, 5 GPM AT 7 FT. OF HEAD, BRONZE CONSTRUCTION WITH FLANGE CONNECTION, 1/40 HP, 115V/ 1 PH. 0.52 AMPS, 3250 RPM. PROVIDE WITH TC-1 TIMER KIT AND AQUASTAT. |

PBK

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**CENTENNIAL HIGH SCHOOL AQUATICS CENTER**

PROJECT ADDRESS:
1820 RIMPAU AVE.
CORONA, CA 92881

100% CONSTRUCTION DOCUMENTS

DSA APPL NO.: ##-##### DSA FILE NO.: ###




KEY PLAN NORTH: PLAN

Consultant

REGISTERED PROFESSIONAL ENGINEER
REX DAVID WANG
No.M36155
Exp.09-30-2024
CIVIL
STATE OF CALIFORNIA

FOR PLAN CHECK ONLY

Architect

CLIENT
CNUSD

| DATE | PROJECT NUMBER |
|---|---|
| 2/24/2023 | 220306 |

REVISIONS

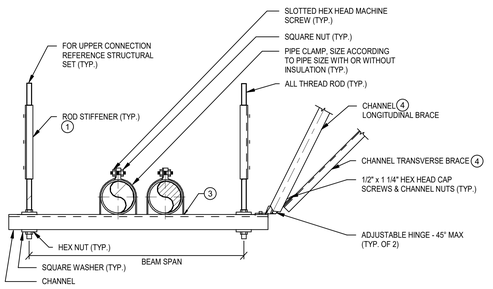
| No. | Description | Date |
|---|---|---|
| | | |

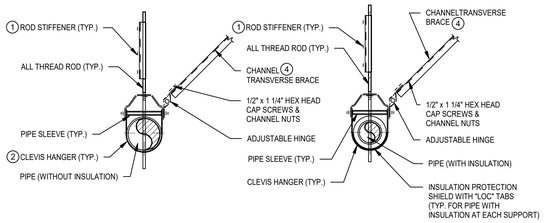
100% CONSTRUCTION DOCUMENTS

**PLUMBING SCHEDULES**

P5.1

0" 1"




NOTES:

1. COMPLY WITH CALIFORNIA BUILDING CODE SECTION 1632A, ADOPTED EDITION.
2. BRACE ALL PIPING AND EQUIPMENT TRANSVERSELY AND LONGITUDINALLY ACCORDING TO SMACNA GUIDELINES FOR SEISMIC RESTRAINTS OF MECHANICAL AND AND PLUMBING PIPING SYSTEMS.
3. ALL PIPE SUPPORTS SHALL BE PIPING TECHNOLOGY & PRODUCTS, INC. OR APPROVED EQUAL.
4. PROVIDE TRANSVERSE SEISMIC BRACING AT 20'-0" MAXIMUM AND AT EVERY CHANGE OF DIRECTION.
5. PROVIDE LONGITUDINAL SEISMIC BRACING AT 40'-0" O.C. MAXIMUM, MINIMUM OF 2 REQUIRED.
6. REFER TO 5/P62 FOR ATTACHMENT TO DECK CONTINUATION SHEET NOTES:

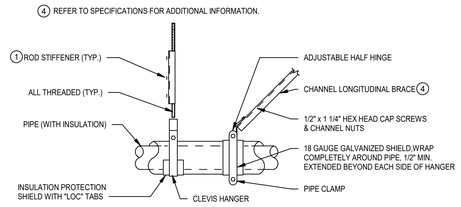
SHEET NOTES:

1. INSTALL ROD STIFFENER WHEN LENGTH EXCEEDS THE SCHEDULE LENGTH:

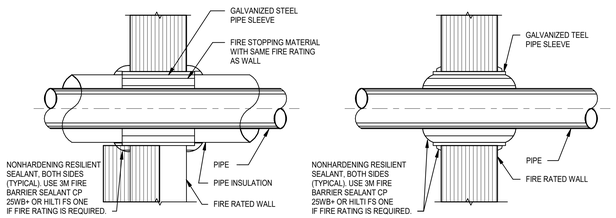
| ROD SIZE | MAX. ROD LENGTH WITHOUT ROD STIFFENER | MAX. SPACING BETWEEN ROD STIFFENERS |
|---|---|---|
| 3/8" | 19" | 13" |
| 1/2" | 25" | 18" |
| 5/8" | 31" | 23" |
| 3/4" | 37" | 28" |
| 7/8" | 43" | 33" |
| 1" | 50" | 38" |
| 1-1/4" | 60" | 43" |

ROD STIFFENERS ARE REQUIRED ONLY ON HANGER AND TRAPEZE ASSEMBLIES THAT HAVE SEISMIC BRACING ATTACHED AT OR WITHIN 4" OF THE ROD. A MINIMUM OF TWO ROD STIFFENERS MUST BE INSTALLED.

2. PROVIDE COPPER HANGERS AND/OR CLAMPS FOR BARE COPPER PIPING OR EPOXY COATED CLEVIS HANGER AND/OR CLAMPS FOR NON-METALLIC SEPARATION BETWEEN DISIMILAR METALS.
3. REFER TO PIPING TECHNOLOGY & PRODUCTS INC. FOR CHANNEL TYPE AND LOAD RATING BASED ON BEAM SPAN FOR UNIFORM AND CONCENTRATED LOADING.
4. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.



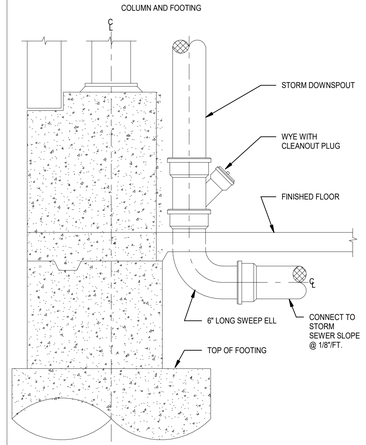

## 20 TYPICAL SINGLE AND TRAPEZE PIPE SUPPORT DETAIL
SCALE: 12" = 1'-0"



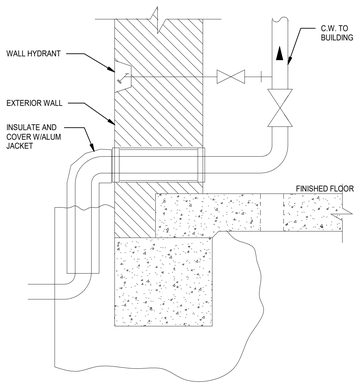

NOTES:

1. REFER TO ARCHITECTURAL DRAWING FOR WALL FIRE RATING.
2. INSULATED STEEL PIPE ID 6" OR LESS: UL SYSTEM NO. C-AJ-5077
3. UNINSULATED STEEL PIPE ID 6" OR LESS: UL SYSTEM NO. C-AJ-1221

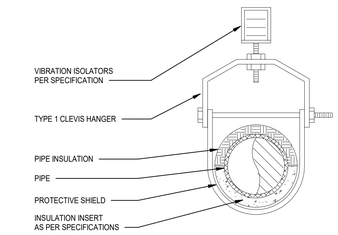
## 21 TYPICAL PIPE PENETRATION THROUGH FIRE RATED WALL DETAIL
SCALE: 12" = 1'-0"




## 16 STORM DOWNSPOUT
SCALE: N.T.S

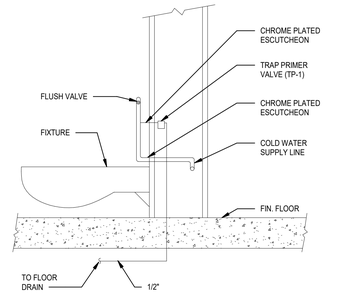



## 17 WATER PIPE ENTRY
SCALE: N.T.S

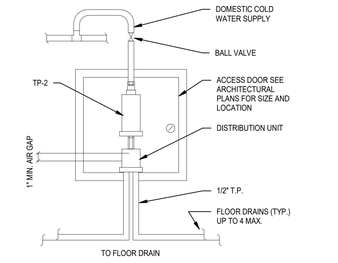



NOTE:
ROUTE PIPING AS LOW AS POSSIBLE TO CEILING GRID FOR EASE OF ACCESSIBILITY.

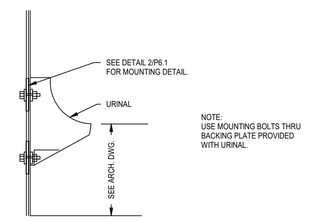
## 11 SINGLE PIPE TYPE 1 CLEVIS HANGER
SCALE: N.T.S




## 12 TRAP PRIMER - WATER CLOSET FLUSH VALVE
SCALE: N.T.S

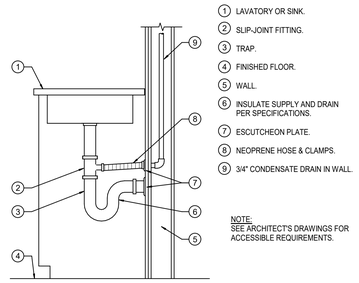



## 13 TRAP PRIMER DETAIL
SCALE: 12" = 1'-0"




NOTE:
USE MOUNTING BOLTS THRU BACKING PLATE PROVIDED WITH URINAL.

## 14 URINAL MOUNTING DETAIL
SCALE: 12" = 1'-0"

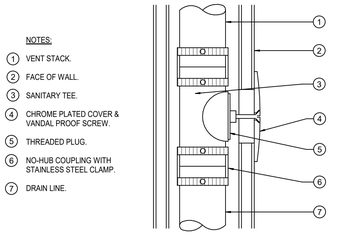


DETAIL NOTES:

1. LAVATORY OR SINK.
2. SLIP-JOINT FITTING.
3. TRAP.
4. FINISHED FLOOR.
5. WALL.
6. INSULATE SUPPLY AND DRAIN PER SPECIFICATIONS.
7. ESCUTCHEON PLATE.
8. NEOPRENE HOSE & CLAMPS.
9. 3/4" CONDENSATE DRAIN IN WALL.

NOTE:
SEE ARCHITECT'S DRAWINGS FOR ACCESSIBLE REQUIREMENTS.

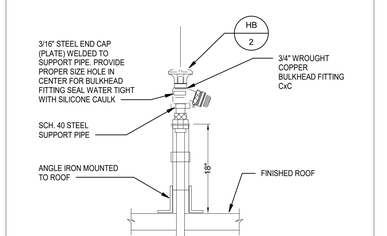
## 19 CONDENSATE TO TAILPIECE DETAIL
SCALE: 12" = 1'-0"



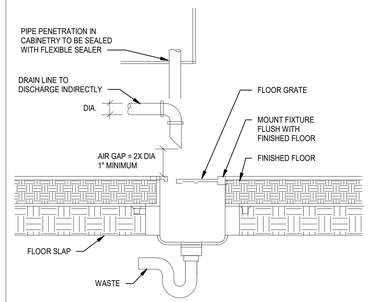
NOTES:

1. VENT STACK.
2. FACE OF WALL.
3. SANITARY TEE.
4. CHROME PLATED COVER & VANDAL PROOF SCREW.
5. THREADED PLUG.
6. NO-HUB COUPLING WITH STAINLESS STEEL CLAMP.
7. DRAIN LINE.

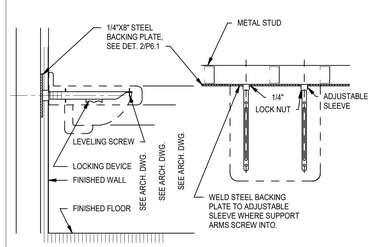
## 15 WALL CLEANOUT DETAIL
SCALE: 12" = 1'-0"




## 6 HOSE BIBB ON ROOF DETAIL
SCALE: N.T.S



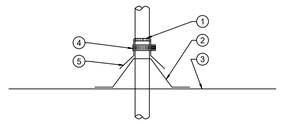

## 7 INDIRECT DRAIN TO FS
SCALE: 12" = 1'-0"



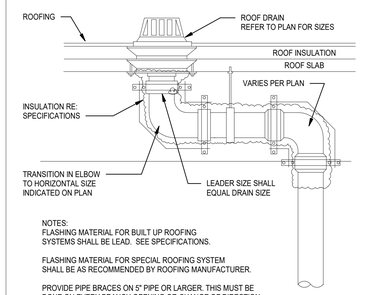

## 8 LAVATORY SUPPORT DETAIL
SCALE: 12" = 1'-0"

NOTES:

1. SILICONE SEAL.
2. SHORT CONE FLASHING.
3. ROOF, SEE ARCH. DWGS.
4. SCREW BAND HOSE CLAMP.
5. COUNTER FLASHING.



## 9 PIPE THRU ROOF DETAIL
SCALE: 12" = 1'-0"

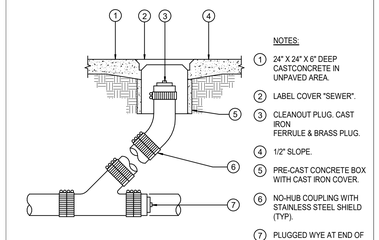



NOTES:
FLASHING MATERIAL FOR BUILT UP ROOFING SYSTEMS SHALL BE LEAD. SEE SPECIFICATIONS.

FLASHING MATERIAL FOR SPECIAL ROOFING SYSTEM SHALL BE AS RECOMMENDED BY ROOFING MANUFACTURER.

PROVIDE PIPE BRACES ON 5" PIPE OR LARGER. THIS MUST BE DONE ON EVERY BRANCH OPENING OR CHANGE OF DIRECTION.

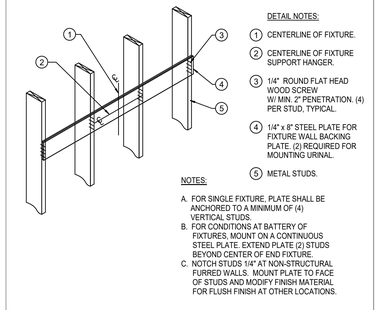
## 10 ROOF + OVERFLOW DRAIN
SCALE: N.T.S



NOTES:

1. TOP OF CONCRETE FLOOR.
2. C.I. 1/8 BEND.
3. C.I. DRAIN LINE.
4. CAULK JOINT WITH LEAD NO WATER TO STAND ON UP.
5. ROUND ADJUSTABLE CAST IRON TOP, TRACTOR COVER. SET TOP FLUSH WITH FINISHED FLOOR.
6. SEE DETAIL 2/S1.1 FOR SLAB AND SUB-FLOOR CONSTRUCTION.

## 3 FLOOR CLEANOUT DETAIL
SCALE: 12" = 1'-0"



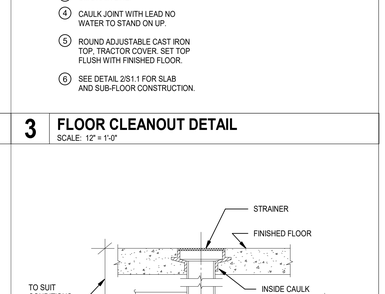
DETAIL NOTES:

1. CENTERLINE OF FIXTURE.
2. CENTERLINE OF FIXTURE SUPPORT HANGER.
3. 1/4" ROUND FLAT HEAD WOOD SCREW W/ MIN. 2" PENETRATION. (4) PER STUD, TYPICAL.
4. 1/4" x 8" STEEL PLATE FOR FIXTURE WALL BACKING PLATE. (2) REQUIRED FOR MOUNTING URINAL.
5. METAL STUDS.

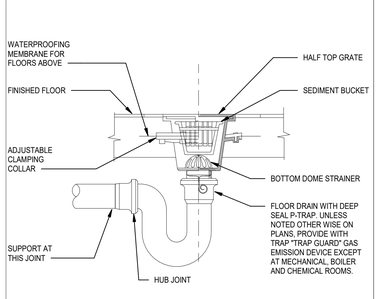
NOTES:

A. FOR SINGLE FIXTURE, PLATE SHALL BE ANCHORED TO A MINIMUM OF (4) VERTICAL STUDS.
B. FOR CONDITIONS AT BATTERY OF FIXTURES, MOUNT ON A CONTINUOUS STEEL PLATE. EXTEND PLATE (2) STUDS BEYOND CENTER OF END FIXTURE.
C. NOTCH STUDS 1/4" AT NON-STRUCTURAL FURRED WALLS. MOUNT PLATE TO FACE OF STUDS AND MODIFY FINISH MATERIAL FOR FLUSH FINISH AT OTHER LOCATIONS.

## 2 FIXTURE SUPPORT BACKING PLATE DETAIL
SCALE: 12" = 1'-0"




## 4 FLOOR DRAIN DETAIL
SCALE: N.T.S




## 5 FLOOR SINK
SCALE: N.T.S

PBK
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PBK.com
RANCHO CUCAMONGA
8163 Rochester Avenue, Suite 100
Rancho Cucamonga
California 91730
P 909-987-0909
CONSULTANT LEAF Engineers
LEAF ENGINEERS
8163 Rochester Avenue, Suite 100
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leafengineers.com

**CENTENNIAL HIGH SCHOOL AQUATICS CENTER**

PROJECT ADDRESS:
1820 RIMPAU AVE.
CORONA, CA 92881

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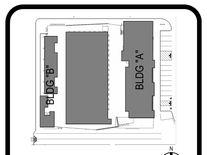
DSA APPL NO.: ##-##### DSA FILE NO.: ###




KEY PLAN NORTH: PLAN

Consultant

REGISTERED PROFESSIONAL ENGINEER REZ. DAVID WANG No.M36155 Exp.09-30-2024 CIVIL STATE OF CALIFORNIA

FOR PLAN CHECK ONLY

Architect

CLIENT
CNUSD

| DATE | PROJECT NUMBER |
|---|---|
| 2/24/2023 | 220306 |

REVISIONS

| No. | Description | Date |
|---|---|---|
| | | |

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**PLUMBING DETAILS**

**P6.1**

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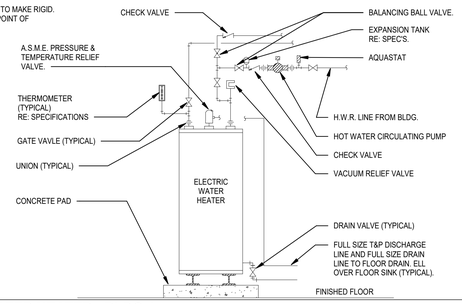
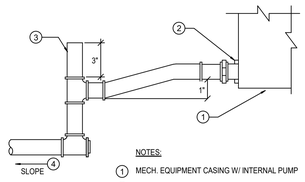
NOTE:

1. ALL PIPING SHALL BE SECURED TO MAKE RIGID.
2. ALL LINES TO BE FULL SIZE TO POINT OF CONNECTION AT HEATER.




## 4 ELECTRIC WATER HEATER - BLDG A
SCALE: N.T.S



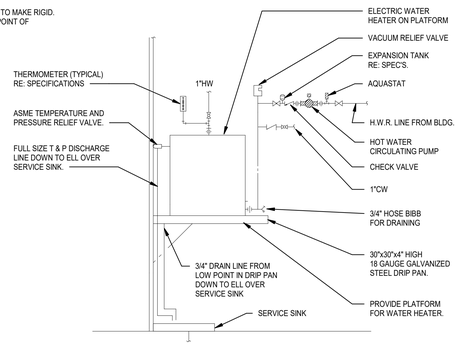

NOTES:

1. MECH. EQUIPMENT CASING W/ INTERNAL PUMP
2. CONNECTION TO DRAIN STUB. NEOPRENE COVERED HOSE AT UNITS MOUNTED ON VIBRATION. ISOLATORS NIPPLES & UNION AT ALL OTHERS.
3. OPEN TEE W/ 3" PIPE EXTENSION.
4. SLOPE HORIZONTAL LINES 1/8" PER FOOT (MIN) PLUG TEE (CO) AT EACH CHANGE OF DIRECTION, SEE PLAN FOR CONTINUATION.

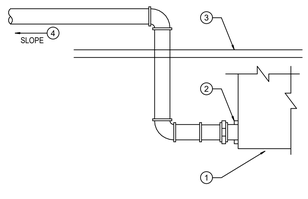
## 1 CD CONNECTION DETAIL - FAN COIL
SCALE: 12" = 1'-0"

NOTE:

1. ALL PIPING SHALL BE SECURED TO MAKE RIGID.
2. ALL LINES TO BE FULL SIZE TO POINT OF CONNECTION AT HEATER.



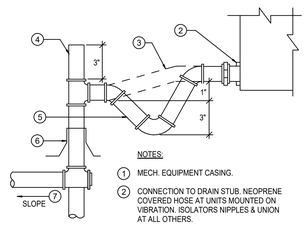

## 5 ELECTRIC WATER HEATER ELEVATED - BLDG B
SCALE: N.T.S




NOTES:

1. MECH. EQUIPMENT CASING W/ INTERNAL PUMP
2. CONNECTION TO DRAIN STUB. NEOPRENE COVERED HOSE AT UNITS MOUNTED ON VIBRATION. ISOLATORS NIPPLES & UNION AT ALL OTHERS.
3. CEILING
4. SLOPE HORIZONTAL LINES 1/8" PER FOOT (MIN) PLUG TEE (CO) AT EACH CHANGE OF DIRECTION, SEE PLAN FOR CONTINUATION.

## 2 CD CONNECTION DETAIL - ABOVE CLG
SCALE: 12" = 1'-0"




NOTES:

1. MECH. EQUIPMENT CASING.
2. CONNECTION TO DRAIN STUB. NEOPRENE COVERED HOSE AT UNITS MOUNTED ON VIBRATION. ISOLATORS NIPPLES & UNION AT ALL OTHERS.
3. IN CASE OF INTERNAL TRAP.
4. OPEN TEE W/ 3" PIPE EXTENSION.
5. 3" DEEP TRAP SEAL. MAKE-UP TRAP OUT OF NIPPLES AND FITTINGS. DELETE IF UNIT IS EQUIPPED WITH AN INTERNAL TRAP.
6. FLASHING. SEE DETAIL /P.
7. SLOPE HORIZONTAL LINES 1/8" PER FOOT (MIN) PLUG TEE (CO) AT EACH CHANGE OF DIRECTION, SEE PLAN FOR CONTINUATION.

## 3 CD CONNECTION DETAIL - ROOFTOP UNIT
SCALE: 12" = 1'-0"

PBK

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P 909-987-0909

CONSULTANT LEAF Engineers
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# CENTENNIAL HIGH SCHOOL AQUATICS CENTER

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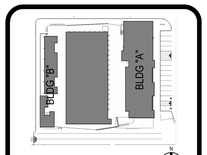


KEY PLAN
NORTH: PLAN

Consultant

REGISTERED PROFESSIONAL ENGINEER
REX DAVID KING
No.M36155
Exp.09-30-2024
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FOR PLAN CHECK ONLY

Architect

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# PLUMBING DETAILS

# P6.2

T0.0 - TECHNOLOGY SYMBOLS, NOTES, AND ABBREVIATIONS

0" 1"

# SECURITY SYSTEMS LEGEND

| GROUP | SYMBOL | DESCRIPTION |
|---|---|---|
| DEVICES | | INTERIOR VIDEO SURVEILLANCE CAMERA. PROVIDE ALL REQUISITE MOUNTING HARDWARE. PROVIDE CEILING TILE BRIDGE FOR ALL CAMERAS INSTALLED IN LAY-IN CEILING TILE. WALL MOUNTED CAMERAS INSTALLED AT 12' A.F.F. UNLESS OTHERWISE NOTED. PROVIDE SINGLE GANG BACK BOX WITH (1) 3/4" CONDUIT STUBBED OUT ABOVE NEAREST ACCESSIBLE CEILING WITH PULL STRING FOR WALL MOUNTED CAMERAS. |
| | | EXTERIOR WALL MOUNTED CAMERA VIDEO SURVEILLANCE CAMERA INSTALLED AT 12' A.F.F. UNLESS OTHERWISE NOTED. PROVIDE ALL REQUISITE MOUNTING HARDWARE. PROVIDE SINGLE GANG BACK BOX WITH (1) 3/4" CONDUIT STUBBED OUT ABOVE NEAREST ACCESSIBLE CEILING WITH PULL STRING. |
| | | WALL MOUNTED MOTION DETECTOR INSTALLED AT 12' A.F.F. UNLESS OTHERWISE NOTED. PROVIDE SINGLE GANG BACK BOX WITH (1) 3/4" CONDUIT STUBBED OUT ABOVE NEAREST ACCESSIBLE CEILING WITH PULL STRING. |
| | | 360 DEGREE CEILING MOUNTED MOTION DETECTOR. |
| | KP | INTRUSION DETECTION SYSTEM ARM/DISARM KEYPAD WITH LOCKING VANDAL RESISTANT COVER. |
| | PB | PANIC BUTTON TO BE TIED TO EMERGENCY GENERATOR. |
| | CONT | INTRUSION DETECTION CONTROL PANELS MOUNTED ON WALL. ELECTRICAL CONTRACTOR TO PROVIDE 120V. POWER TO PANEL. PROVIDE (1) TELEPHONE LINE AND (1) NETWORK CABLE TO PANEL. COORDINATE WITH DISTRICT TECHNOLOGY DEPARTMENT ON ACTIVATING VOICE LINE AND ACQUIRING AN IP ADDRESS. |
| | CR | ACCESS CONTROL PROXIMITY CARD READER. MOUNT AT 42" A.F.F. PROVIDE ALTRONIX LPD FOR EACH CARD READER. |
| | DR | DOOR RELEASE BUTTON (TO BE CONNECTED TO DOOR INDICATED). |
| | DC | DOOR CONTACT. PROVIDE SURFACE MOUNT CONTACT ON ROLL-UP DOORS. PROVIDE DOOR CONTACT ON ALL ROOF HATCHES. |
| | | CEILING MOUNTED GLASS BREAK DETECTOR. |
| | | WALL MOUNTED GLASS BREAK DETECTOR. MOUNT AT 12'-0" A.F.F. |

NOTE:
1. EVERY SYMBOL SHOWN ON LEGEND MAY NOT APPEAR ON DRAWINGS. REFER TO GENERAL ELECTRICAL NOTES FOR WALL-MOUNTED DEVICE MOUNTING HEIGHTS.
2. REFERENCE SPECIFICATIONS FOR MATERIALS AND METHODS.
3. COMPLETE INSTALLATION OF ALL PRODUCTS SHALL BE IN COMPLIANCE WITH ALL CODES, INDUSTRY STANDARDS, COMMON PRACTICES AND MANUFACTURER'S INSTRUCTIONS.

# AUDIO & VIDEO GENERAL NOTES

1. ALL 120V POWER REQUIRED FOR THE FUNCTIONALITY OF EACH SYSTEM SHALL BE A DEDICATED CIRCUIT. THE INSTALLING CONTRACTOR'S LICENSED ELECTRICAL SUBCONTRACTOR SHALL COORDINATE ELECTRICAL PANEL LOCATIONS AND AVAILABLE SPACE DEDICATED FOR THE CONTRACTOR'S SYSTEM REQUIREMENTS (TYPICAL). ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL POWER TO MAIN CONTROL PANELS AND ALL HEAD END EQUIPMENT.
2. THE PROJECT'S ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL IN WALL CONDUITS, BELOW GRADE CONDUITS, BELOW SLAB CONDUITS, CONDUITS ACROSS OPEN AREAS, BACK BOXES, SLEEVES AND PULL STRING REQUIRED FOR DEVICES AND PATHWAYS SHOWN ON THE FLOOR PLANS AND DETAIL SHEETS. ANY ADDITIONAL CONDUITS, SLEEVES, AND RACEWAY REQUIREMENTS FOR EACH SYSTEM SHALL BE THE RESPONSIBILITY OF SYSTEM INSTALLER.
3. ALL EXPOSED WIRING OR WIRING ROUTING ACROSS NON ACCESSIBLE CEILINGS SHALL BE ROUTED IN CONDUIT. SIZE CONDUIT AS REQUIRED TO ROUTE SYSTEMS WITH 40% CABLE FILL RATIO. MINIMUM CONDUIT SIZE SHALL BE 3/4".
4. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING ALL EXTERIOR WALL PENETRATIONS ARE PROPERLY SEALED TO PREVENT ELEMENTS FROM ENTERING BUILDING.
5. NO CONDUITS OR SEAL-TITE SHALL BE INSTALLED ON THE EXTERIOR OF THE BUILDING.
6. ALL CONDUIT STUB OUTS AND SLEEVES SHALL HAVE PROTECTIVE BUSHINGS TO PREVENT CABLE DAMAGE. BUSHING TO BE INSTALLED PRIOR TO CABLE INSTALLATION. CUTTING BUSHING AND INSTALLING AFTER CABLE IS INSTALLED WILL NOT BE ACCEPTED. CONTRACTOR TO MAINTAIN A 40% MAXIMUM FILL RATION ON ALL SLEEVES INSTALLED.
7. ALL CABLE SHALL BE ROUTED DOWN CORRIDORS, PARALLEL AND PERPENDICULAR TO THE BUILDING WALLS AND STRUCTURE. CABLE TO EACH DEVICE SHALL BRANCH OFF OF A MAIN CORRIDOR TRUNK. ROUTING CABLES THROUGH CLASSROOMS, OFFICES, STORAGE ROOMS, RESTROOMS OR ANY TYPE OF ROOM OTHER THAN A CORRIDOR WILL NOT BE ACCEPTED. ENTER ALL ROOMS ABOVE THE ASSOCIATED ROOM DOORWAY.
8. THE SYSTEM INSTALLER SHALL PROPERLY SUPPORT ALL INSTALLED SYSTEM CABLING FROM A PANDUIT J-MOD CABLE SUPPORT SYSTEM OR OTHER SUPPORT SYSTEM AS DETAILED IN SPECIFICATIONS. NO CABLING SHALL BE ROUTED AND TIED DIRECTLY TO BUILDING STEEL, CEILING GRID SUPPORT, CONDUIT, PIPING, OR DUCTWORK. THE CABLE SUPPORT SYSTEM SHALL BE DIRECTLY CONNECTED TO THE BUILDING'S STEEL JOIST. AT LOCATIONS WHERE THE BOTTOM OF THE JOIST IS MORE THAN 5' ABOVE THE CEILING, THE SYSTEM INSTALLER SHALL PROVIDE AND INSTALL THREADED ROD AND ALL REQUIRED MATERIALS TO CONNECT THE THREADED ROD TO THE BUILDING STEEL AND THE CABLE SUPPORT SYSTEM TO THE THREADED ROD. CABLE PATHWAY SHALL NOT BE HIGHER THAN 5' ABOVE THE CEILING AT ANY LOCATIONS.
9. ALL EXTERIOR AND WALL MOUNTED SPEAKERS SHALL BE MOUNTED AT 10'-0" UNLESS OTHERWISE NOTED.
10. EXTERIOR SPEAKERS SHALL BE ON A SEPARATE LOW VOLTAGE CIRCUIT FROM INTERIOR SPEAKERS.
11. A/V CONTRACTOR SHALL COORDINATE ALL MOUNTING LOCATIONS OF ALL A/V DEVICES TO PROVIDE EVEN AND BALANCED AUDIO COVERAGE OF INTENDED LISTENING AREAS AND UNOBSTRUCTED, SQUARE AND PLUMB VIDEO IMAGE DISPLAYS.
12. ALL LAY-IN CEILING MOUNTED SPEAKERS AND DEVICES SHALL BE INSTALLED UTILIZING A TILE BRIDGE SUPPORT SYSTEM. AT NO POINT SHOULD THE WEIGHT OF A CEILING MOUNTED DEVICE BE SUPPORTED BY A CEILING TILE ALONE.
13. A/V CONTRACTOR TO COORDINATE WITH ELECTRICAL CONTRACTOR FOR ALL CONDUIT AND BACK BOX REQUIREMENTS.
14. A/V CONTRACTOR TO COORDINATE WITH ALL OTHER TRADES WITH REGARD TO BLOCKING AND PROPER SUPPORT OF ALL A/V DEVICES.
15. PROVIDE MOUNTING SUPPORT FROM GRID OR BUILDING STRUCTURE FOR ALL DEVICES INSTALLED IN LAY-IN CEILING TILE.

# INTERCOM AND CLOCK LEGEND

NOTE: EVERY SYMBOL SHOWN ON LEGEND MAY NOT APPEAR ON DRAWINGS. REFER TO GENERAL ELECTRICAL NOTES FOR WALL-MOUNTED DEVICE MOUNTING HEIGHTS.

| GROUP | SYMBOL | DESCRIPTION |
|---|---|---|
| DEVICES | S | INTERCOM SPEAKER, FLUSH MOUNTED IN CEILING. SUBSCRIPT "L" INDICATES A LOCAL SOUND SYSTEM SPEAKER. |
| | WS | INTERCOM SPEAKER, FLUSH MOUNTED MOUNTED IN WALL. PROVIDE EXTERIOR RATED SPEAKERS INSTALLED ON BUILDING EXTERIOR. SUBSCRIPT "L" INDICATES A LOCAL SOUND SYSTEM SPEAKER. |
| | VC | SPEAKER VOLUME CONTROL, FLUSH MOUNTED IN WALL. 2 GANG EXTRA DEEP BACK BOX WITH SINGLE GANG REDUCER RING AT PROJECT SWITCH HEIGHT WITH (1) 3/4" CONDUIT STUBBED OUT ABOVE ACCESSIBLE CEILING IN SAME ROOM. |
| | ICB | INTERCOM CALL BUTTON, FLUSH MOUNTED IN WALL. 2 GANG EXTRA DEEP BACK BOX WITH SINGLE GANG REDUCER RING AT PROJECT SWITCH HEIGHT WITH (1) 3/4" CONDUIT STUBBED OUT ABOVE ACCESSIBLE CEILING IN SAME ROOM. |
| | ◁ xxx | INTERCOM COMMUNICATIONS CONTROL SYSTEM HANDSET. "ACS" INDICATES ADMINISTRATOR CONTROL SYSTEM HANDSET. "MCS" INDICATES MASTER CONTROL SYSTEM HANDSET. "RCS" INDICATES RESCUE AREA CONTROL SYSTEM HANDSET. 2 GANG EXTRA DEEP BACK BOX WITH SINGLE GANG REDUCER RING AT PROJECT SWITCH HEIGHT WITH (1) 3/4" CONDUIT STUBBED OUT ABOVE ACCESSIBLE CEILING IN SAME ROOM. |
| | C | SINGLE FACE CLOCK. 2 GANG EXTRA DEEP BACK BOX WITH SINGLE GANG REDUCER RING AT PROJECT CLOCK HEIGHT WITH (1) 3/4" CONDUIT STUBBED OUT ABOVE NEAREST ACCESSIBLE CEILING. |
| | C C | DOUBLE FACE CLOCK. 2 GANG EXTRA DEEP BACK BOX WITH SINGLE GANG REDUCER RING AT PROJECT CLOCK HEIGHT WITH (1) 3/4" CONDUIT STUBBED OUT ABOVE NEAREST ACCESSIBLE CEILING. |

NOTE:
1. EVERY SYMBOL SHOWN ON LEGEND MAY NOT APPEAR ON DRAWINGS. REFER TO GENERAL ELECTRICAL NOTES FOR WALL-MOUNTED DEVICE MOUNTING HEIGHTS.
2. REFERENCE SPECIFICATIONS FOR MATERIALS AND METHODS.
3. COMPLETE INSTALLATION OF ALL PRODUCTS SHALL BE IN COMPLIANCE WITH ALL CODES, INDUSTRY STANDARDS, COMMON PRACTICES AND MANUFACTURER'S INSTRUCTIONS.
4. PROVIDE CLEAR POLYCARBONATE COVER OR WIREGUARD ON ALL DEVICES INSTALLED IN GYMNASIUMS.

# TECHNOLOGY PLAN GENERAL NOTES

1. ALL 120V POWER REQUIRED FOR THE FUNCTIONALITY OF THE TELECOMMUNICATION, NETWORK, AUDIO/VIDEO, SECURITY AND FIRE ALARM EQUIPMENT SHALL BE A DEDICATED CIRCUIT AND ON EMERGENCY POWER WHERE POSSIBLE. CONTRACTOR SHALL COORDINATE AND INSTALL ALL 120V POWER REQUIREMENTS AND LOCATIONS AS REQUIRED FOR ALL EQUIPMENT (TYPICAL).
2. CONTRACTOR SHALL COORDINATE WITH THE TECHNOLOGY CONSULTANT PRIOR TO THE INSTALLATION OF RACKS AND RACK EQUIPMENT. NO RACKS SHALL BE PERMANENTLY INSTALLED WITHOUT WRITTEN APPROVAL OF THE TECHNOLOGY CONSULTANT.
3. THE PROJECT'S ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONDUITS, PULL STRINGS, BACK BOXES AND SLEEVES REQUIRED FOR DEVICES AND PATHWAYS SHOWN ON THE FLOOR PLANS AND DETAIL SHEETS. ANY ADDITIONAL CONDUITS, SLEEVES, AND RACEWAY REQUIREMENTS FOR EACH SYSTEM SHALL BE THE RESPONSIBILITY OF EACH SYSTEM INSTALLER.
4. THE SELECTED, INSTALLING CONTRACTOR MUST BE A CERTIFIED INTEGRATOR/INSTALLER AUTHORIZED BY THE SPECIFIED SYSTEM MANUFACTURER TO INSTALL THE CABLE PLANT AND CONNECTIVITY PRODUCTS. REFER TO SPECIFICATIONS FOR PRODUCT TYPE AND DESCRIPTION.
5. SYSTEM WIRING AND EQUIPMENT INSTALLATION SHALL BE IN ACCORDANCE WITH ENGINEERING BEST PRACTICES AS ESTABLISHED BY ANSI/EIA/TIA, BICSI, AND THE NEC.
6. ALL WIRING SHALL MEET ALL STATE AND LOCAL ELECTRICAL CODES.
7. ALL TELECOMMUNICATIONS SYSTEMS EQUIPMENT AND MOUNTING LOCATIONS SHALL BE IN COMPLIANCE WITH ADA ACCESSIBILITY STANDARDS.
8. ALL DATA CABLES ARE TO BE INSTALLED WITH A MINIMUM OF 12 INCHES OF SEPARATION FROM AC POWER CABLES AND ALL OTHER LOW VOLTAGE CABLING IN ANY PARALLEL OPEN WIRE RUN.
9. ALWAYS CROSS OTHER SYSTEM CABLES AT A 90 DEGREE ANGLE.
10. ALL CABLES AND TERMINATION COMPONENTS SHALL BE MACHINE LABELED AT BOTH ENDS. LABEL ALL CABLES PER THE TECHNOLOGY DRAWINGS AND/OR SPECIFICATIONS. FINAL CABLE/OUTLET IDENTIFICATION LABELS SHALL BE COORDINATED WITH THE OWNER AND CONSULTANT.
11. CONTRACTOR TO PROVIDE LIGHTNING PROTECTION ON ALL COMMUNICATION CABLE BETWEEN BUILDINGS AND EXTERIOR MOUNTED DEVICES.
12. ALL EXPOSED CABLING ROUTED IN PLENUM SHALL BE PLENUM-RATED. ALL NON PLENUM-RATED CABLING INSTALLED IN PLENUM SPACES SHALL BE INSTALLED IN CONDUIT.
13. NO TERMINATION OR SPLICES SHALL BE INSTALLED IN OR ABOVE CEILINGS UNLESS NOTED OTHERWISE.
14. CONTRACTOR SHALL MAINTAIN WALL RATING WITH PROPER FIRE BLOCKING METHODS.
15. CONTRACTOR SHALL ROUTE ALL LOW VOLTAGE CABLING DOWN CORRIDORS AND PERPENDICULAR OR PARALLEL TO BUILDING WALLS. ENTER INTO ALL ROOMS FROM THE CORRIDOR ABOVE THE MAIN DOORWAY.
16. ALL COMMUNICATION CABLE INSTALLED SHALL ROUTE TO THE CENTER OF THE ROOM IN WHICH IT SERVES AND THEN TO THE OUTLET LOCATION IT IS INTENDED FOR. EACH CABLE SHALL HAVE A 10' SERVICE LOOP AT THE CENTER OF EACH ROOM AND A 3' SERVICE LOOP ABOVE EACH OUTLET LOCATION.
17. THE SYSTEM INSTALLER SHALL PROPERLY SUPPORT ALL INSTALLED SYSTEM CABLING FROM A PANDUIT J-MOD CABLE SUPPORT SYSTEM OR OTHER SUPPORT SYSTEM AS DETAILED IN SPECIFICATIONS. NO CABLING SHALL BE ROUTED AND TIED DIRECTLY TO BUILDING STEEL, CEILING GRID SUPPORT, CONDUIT, PIPING, OR DUCTWORK. CABLING SUPPORT SYSTEM SHALL BE DIRECTLY CONNECTED TO THE BUILDING'S STEEL JOIST. IN LOCATIONS WHERE THE BOTTOM OF THE JOIST IS MORE THAN 5' ABOVE THE CEILING, THE SYSTEM INSTALLER SHALL PROVIDE AND INSTALL THREADED ROD AND ALL REQUIRED MATERIALS TO CONNECT THE THREADED ROD TO THE BUILDING STEEL AND THE CABLE SUPPORT SYSTEM TO THE THREADED ROD. CABLE PATHWAY SHALL NOT BE HIGHER THAN 5' ABOVE THE CEILING IN ANY LOCATION.
18. CONTRACTOR SHALL PROVIDE TWO (2) CAT6/6A CABLES ROUTED TO THE FIRE ALARM CONTROL PANEL. CONTRACTOR TO COORDINATE WITH THE SYSTEM INSTALLER FOR EXACT LOCATIONS AND TERMINATION INSTRUCTIONS PRIOR TO INSTALLATION.
19. ALL EXPOSED CABLING OR CABLING ROUTING ACROSS NON-ACCESSIBLE CEILINGS SHALL BE INSTALLED IN CONDUIT. CONDUIT SHALL BE PROPERLY SIZED TO MAINTAIN THE 40% FILL RATIO.
20. 21ALL CONDUIT STUB OUTS AND SLEEVES SHALL HAVE PROTECTIVE BUSHINGS TO PREVENT CABLE DAMAGE. BUSHING TO BE INSTALLED PRIOR TO CABLE INSTALLATION. CUTTING BUSHING AND INSTALLING AFTER CABLE IS INSTALLED WILL NOT BE ACCEPTED. CONTRACTOR TO MAINTAIN A 40% MAXIMUM FILL RATION ON ALL SLEEVES INSTALLED.
21. CONTRACTOR SHALL PROVIDE TWO (2) CAT6/6A CABLES TO THE ACCESS CONTROL HEAD-END. CONTRACTOR TO COORDINATE WITH THE SYSTEM INSTALLER FOR EXACT LOCATIONS AND TERMINATION INSTRUCTIONS PRIOR TO INSTALLATION.
22. CONTRACTOR TO PROVIDE TWO (2) CAT6/6A CABLES TO THE BUILDING AUTOMATION SYSTEM AT EACH BAS HEAD-END LOCATION. CONTRACTOR TO COORDINATE WITH THE SYSTEM INSTALLER FOR EXACT LOCATIONS AND TERMINATION INSTRUCTIONS PRIOR TO INSTALLATION.
23. CONTRACTOR TO PROVIDE TWO (2) CAT6/6A CABLES TO THE AREA OF REFUGE SYSTEM. CONTRACTOR TO COORDINATE WITH THE SYSTEM INSTALLER FOR EXACT LOCATIONS AND TERMINATION INSTRUCTIONS PRIOR TO INSTALLATION.
24. CONTRACTOR SHALL PROVIDE (1) CAT6/6A CABLE FOR EACH IP CAMERA AND IP SPEAKER ROUTED TO NEAREST IDF. COORDINATE WITH OTHER TRADES.
25. CONTRACTOR SHALL PROVIDE (2) CAT6/6A CABLES ROUTED TO THE ELEVATOR FOR THE FIRE-FIGHTER TELEPHONE.
26. CONTRACTOR SHALL PROVIDE (1) CAT6/6A CABLE TO THE INTRUSION DETECTION SYSTEM HEAD-END

# SECURITY GENERAL NOTES

1. ALL 120V POWER REQUIRED FOR THE FUNCTIONALITY OF THE ACCESS CONTROL, BURGLAR ALARM, AND SECURITY CAMERA SYSTEMS SHALL BE A DEDICATED CIRCUIT AND ON EMERGENCY POWER WHEN AVAILABLE. SECURITY CONTRACTOR SHALL COORDINATE ALL 120V POWER REQUIREMENTS AND LOCATIONS WITH ELECTRICAL CONTRACTOR FOR ALL EQUIPMENT AND REMOTE POWER SUPPLIES (TYPICAL)
2. A DOOR CONTACT POSITION SENSOR IS REQUIRED AT ALL ROOF HATCHES (TYPICAL).
3. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY CONDUIT, SLEEVES, AND PROTECTIVE BUSHINGS REQUIRED TO INSTALL COMPLETE SECURITY SYSTEM. PROVIDE ALL CONDUITS REQUIRED AT EXTERIOR DOORS ANNOTATED WITH DOOR CONTACTS OR CARD READERS TO ALLOW FOR INSTALLATION OF DOOR CONTACT POSITION SENSORS AND CARD READERS.
4. SECURITY CONTRACTOR IS RESPONSIBLE FOR CONNECTING SYSTEM TO DISTRICT'S REMOTE MONITORING SERVICE.
5. ALL EXPOSED SECURITY SYSTEMS WIRING OR WIRING ROUTING ACROSS NON ACCESSIBLE CEILINGS SHALL BE ROUTED IN CONDUIT. SIZE CONDUIT AS REQUIRED TO ROUTE SYSTEMS WITH 40% CABLE FILL RATIO. MINIMUM CONDUIT SIZE SHALL BE 3/4"
6. PROVIDE PROTECTIVE COVER FOR ALL DEVICES IN GYMNASIUM AREAS.
7. ENSURE ALL EXTERIOR WALL PENETRATIONS ARE PROPERLY SEALED TO PREVENT ELEMENTS FROM ENTERING BUILDING.
8. NO CONDUITS OR SEAL-TITE SHALL BE INSTALLED ON THE EXTERIOR OF THE BUILDING.
9. ALL LOW VOLTAGE CABLING SHALL BE INDIVIDUALLY ROUTED TO HEAD END POINT AND SUPPORTED IN PROPER CABLE SUPPORT SYSTEM FOR ENTIRE LENGTH OF RUN.
10. ALL EXTERIOR CAMERAS SHALL BE MOUNTED 12' ABOVE FINISHED GRADE UNLESS OTHERWISE INDICATED.
11. ALL CONDUIT STUB OUTS AND SLEEVES SHALL HAVE PROTECTIVE BUSHINGS TO PREVENT CABLE DAMAGE. BUSHING TO BE INSTALLED PRIOR TO CABLE INSTALLATION. CUTTING BUSHING AND INSTALLING AFTER CABLE IS INSTALLED WILL NOT BE ACCEPTED.
12. CONTRACTOR SHALL CONNECT FREEZER/COOLER SENSORS TO INTRUSION DETECTION HEAD-END FOR EVENT DETECTION. PROVIDE ALL REQUIRED MODULES TO INTERFACE SENSORS.
13. CONTRACTOR SHALL PROVIDE ALL VIDEO SURVEILLANCE CAMERA MOUNTS AND MOUNTING HARDWARE. COORDINATE WITH OWNER FOR FINAL INSTALLATION LOCATION PRIOR TO ROUGH-IN. PROVIDE CAMERA FIELD OF VIEW ADJUSTMENTS. COORDINATE WITH OWNER.
14. CONTRACTOR SHALL INTEGRATE THE INSTRUSION DETECTION SYSTEM WITH THE ACCESS CONTROL SYSTEM TO PROVIDE THE FUNCTIONALITY OF THE BURGLAR ALARM BEING DISARMED ON AN AUTHORIZED CARD SWIPE AT ANY CARD READER.
15. CONTRACTOR SHALL INTEGRATE THE ACCESS CONTROL, INTRUSION DETECTION AND VIDEO SURVEILLANCE SYSTEMS. PROVIDE ALL REQUIRED MODULES, CABLING AND LICENSES.
16. PROVIDE MOUNTING SUPPORT FROM GRID OR BUILDING STRUCTURE FOR ALL DEVICES INSTALLED IN LAY-IN CEILING TILE.
17. ALL 120V POWER FOR THE SYSTEMS SHALL BE INSTALLED WITHIN THE ENCLOSURE OR INSTALLED IN CONDUIT CONNECTED TO THE ENCLOSURE SO THAT NO CABLING IS EXPOSED. MC CABLE, ROMEX, SO CABLES OR OTHER METHODS ARE NOT ACCEPTABLE.

# TECHNOLOGY LEGEND

| GROUP | SYMBOL | DESCRIPTION |
|---|---|---|
| DEVICES | ▽ | INDICATES THE LOCATION OF A NEW TECHNOLOGY OUTLET. CONTRACTOR TO PROVIDE FACEPLATE WITH A MINIMUM OF 4-PORTS AT EACH LOCATION UNLESS OTHERWISE NOTED. PROVIDE BLANK COVERS ON UNUSED PORTS. ELECTRICAL CONTRACTOR TO PROVIDE A DOUBLE GANG BACK BOX WITH A SINGLE GANG REDUCER RING AND A 1" CONDUIT FROM THE BOX TO THE NEAREST ACCESSIBLE CEILING. D# INDICATES NUMBER OF CAT6/6A CABLES INSTALLED AT THIS LOCATION. |
| | ▼ | INDICATES THE LOCATION OF A CEILING MOUNTED OUTLET. CONTRACTOR SHALL MOUNT THIS OUTLET AT +12" ABOVE THE CEILING AND COORDINATE ALL FINAL LOCATIONS WITH OTHER TRADES ON THE PROJECT TO VERIFY THAT THE LOCATION OF THE OUTLET MAINTAINS 12" OF CLEARANCE FROM THE FRONT OF THE FACEPLATE FOR OWNER ACCESS. ROUTE (1) 1" CONDUIT FROM THE BUILDING STRUCTURE TO A SINGLE GANG BACK BOX MOUNTED AT 5" OR LESS ABOVE THE FINISHED CEILING. SECURE CONDUIT AND BACK BOX TO INSURE MINIMAL SWAY MOVEMENT. D# INDICATES NUMBER OF CAT6/6A CABLES INSTALLED AT THIS LOCATION. |
| | 'LCD' | INDICATES WALL MOUNTED LCD DISPLAY. CONTRACTOR TO PROVIDE AND INSTALL A RACO 260 BOX WITH 2 GANG MUD RING AT 60" A.F.F. WITH (1) 2" CONDUITS STUBBED OUT ABOVE NEAREST ACCESSIBLE CEILING AND (1) CAT6/6A CABLE ROUTED TO NEAREST IDF. PROVIDE ALL REQUIRED TERMINATION HARDWARE. ELECTRICAL CONTRACTOR SHALL PROVIDE A DEDICATED CIRCUIT. |
| | 'W' | INDICATES A WIRELESS MICROPHONE ANTENNA FOR THE SOUND SYSTEM. PROVIDE A 2 GANG EXTRA DEEP BACK BOX WITH A SINGLE GANG REDUCER RING AT 10 FEET A.F.F. WITH (1) 1" CONDUIT ROUTED TO THE SOUND RACK LOCATED IN ELECTRICAL ROOM A112. SOUND CONTRACTOR SHALL PROVIDE (1) COAX CABLE FOR CONNECTIVITY. |
| | 'H' | INDICATES THE ASSISTIVE LISTENING ANTENNA FOR THE SOUND SYSTEM. PROVIDE A 2 GANG EXTRA DEEP BACK BOX WITH A SINGLE GANG REDUCER RING AT 10 FEET A.F.F. WITH (1) 1" CONDUIT ROUTED TO THE SOUND RACK LOCATED IN ELECTRICAL ROOM A112. SOUND CONTRACTOR SHALL PROVIDE (1) COAX CABLE FOR CONNECTIVITY. |
| | 'AP' | INDICATES WIRELESS ACCESS POINT CONNECTION. CONTRACTOR SHALL PROVIDE AND INSTALL (1) CAT6/6A CABLES ROUTED TO NEAREST IDF. PROVIDE BOX AND CONDUIT AS NOTED FOR CEILING MOUNTED OUTLETS. PROVIDE (1) 15' PLENUM PATCH CABLE FOR EACH LOCATION INSTALLED. PROVIDE 10' SERVICE LOOP UPSTREAM OF TERMINATION POINT. WALL MOUNTED DEVICES SHALL BE INSTALLED AT 10' A.F.F. |
| | M1 | INDICATES A SINGLE MICROPHONE INPUT. PROVIDE A SINGLE GANG BOX AT 18 INCHES A.F.F. WITH (1) ¾" CONDUIT ROUTED TO THE SOUND RACK LOCATED IN ELECTRICAL ROOM A112. SOUND CONTRACTOR SHALL PROVIDE MICROPHONE CABLE FOR CONNECTIVITY. |
| | CP | INDICATES SOUND SYSTEM CONTROL PANEL. PROVIDE A SINGLE GANG BACK BOX AT 54 INCHES A.F.F. WITH (1) ¾" CONDUIT ROUTED TO THE SOUND RACK LOCATED IN ELECTRICAL ROOM A112. SOUND CONTRACTOR SHALL PROVIDE (1) CAT6 CABLE FOR CONNECTIVITY. |
| | BT | INDICATES BLUTOOTH RECEIVER. PROVIDE 2 GANG EXTRA DEEP BACK BOX WITH A SINGLE GANG REDUCER RING AT 48 INCHES A.F.F. WITH (1) ¾" CONDUIT ROUTED TO THE SOUND RACK LOCATED IN ELECTRICAL ROOM A112. SOUND CONTRACTOR SHALL PROVIDE (2) CAT6 CABLES FOR CONNECTIVITY. |
| | | INDICATES THE LOCATION OF AN IP SECURITY CAMERA. FOR WALL MOUNT AND EXTERIOR CAMERAS, ELECTRICAL CONTRACTOR SHALL PROVIDE A SINGLE GANG BOX, FLUSH MOUNT AT 12' A.F.F. WITH 1" CONDUIT STUBBED OUT ABOVE NEAREST ACCESSIBLE CEILING. TECHNOLOGY CONTRACTOR SHALL PROVIDE (1) CAT6/6A CABLE ROUTED TO NEAREST IDF. PROVIDE A 10' SERVICE LOOP AT EACH END POINT. FOR EXTERIOR CAMERAS, PROVIDE AN RJ45 BISCUIT WITH A TERMINATED WHIP ROUTED TO CAMERA LOCATION. PROVIDE ALL REQUIRED CONNECTORS AND DEVICES TO PROVIDE FULL FUNCTIONALITY OF CAMERA. PROPERLY SEAL BUILDING PENETRATIONS TO PREVENT EXTERIOR ELEMENTS FROM ENTERING BUILDING. SURFACE MOUNTED CONDUITS ARE NOT PERMITTED. |
| | S | INDICATES INTERCOM SPEAKER, FLUSH MOUNTED IN CEILING. VERIFY WITH INTERCOM CONTRACTOR WHETHER SPEAKERS ARE IP SPEAKERS. IF SO, PROVIDE (1) CAT6/6A DATA CABLE ROUTED TO NEAREST IDF EXCEPT AS NOTED: ALL CORRIDOR, PUBLIC SPACE AND EXTERIOR SPEAKERS ARE CONVENTIONAL 25VOLT AND DO NOT REQUIRE A DATA DROP. COORDINATE WITH INTERCOM CONTRACTOR PRIOR TO CABLING. |
| | WS | INDICATES WALL MOUNTED INTERCOM SPEAKER. VERIFY WITH INTERCOM CONTRACTOR WHETHER SPEAKERS ARE IP SPEAKERS. IF SO, PROVIDE (1) CAT6/6A DATA CABLE ROUTED TO NEAREST IDF EXCEPT AS NOTED: ALL CORRIDOR, PUBLIC SPACE AND EXTERIOR SPEAKERS ARE CONVENTIONAL 25VOLT AND DO NOT REQUIRE A DATA DROP. COORDINATE WITH INTERCOM CONTRACTOR PRIOR TO CABLING |

NOTE:
1. EVERY SYMBOL SHOWN ON LEGEND MAY NOT APPEAR ON DRAWINGS. REFER TO GENERAL ELECTRICAL NOTES FOR WALL-MOUNTED DEVICE MOUNTING HEIGHTS.
2. REFERENCE SPECIFICATIONS FOR MATERIALS AND METHODS.
3. COMPLETE INSTALLATION OF ALL PRODUCTS SHALL BE IN COMPLIANCE WITH ALL CODES, INDUSTRY STANDARDS, COMMON PRACTICES AND MANUFACTURER'S INSTRUCTIONS.
4. ALL CONDUIT STUB-OUTS SHALL BE EQUIPPED WITH A PLASTIC PROTECTIVE BUSHING TO PREVENT CABLE DAMAGE.

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**CENTENNIAL HIGH SCHOOL AQUATICS CENTER**

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100% CONSTRUCTION DOCUMENTS

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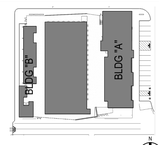
KEY PLAN




NORTH: PLAN

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FOR PLAN CHECK ONLY

Architect

CLIENT
CNUSD

| DATE | PROJECT NUMBER |
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| 2/24/2023 | 220306 |

REVISIONS

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**TECHNOLOGY SYMBOLS, NOTES, AND ABBREVIATIONS**

**T0.0**

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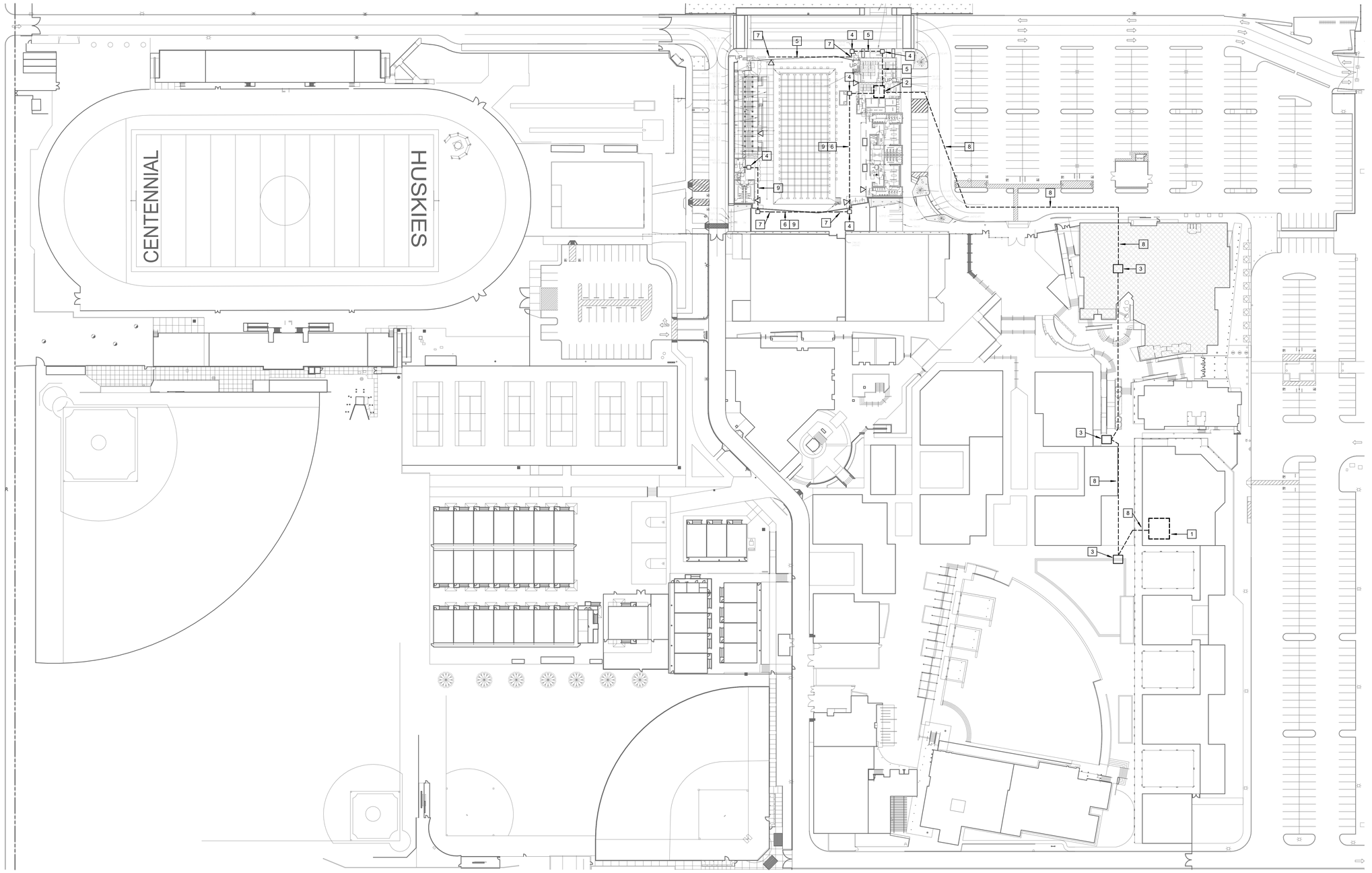
T1.1 - TECHNOLOGY SITE PLAN

0" 1"




## 1 OVERALL SITE PLAN

1" = 50'-0"

## # SITE PLAN KEYED NOTES

1. INDICATES APPROXIMATE LOCATION OF EXISTING MDF ROOM LOCATED IN MEDIA CENTER.
2. INDICATES APPROXIMATE LOCATION OF NEW IDF ROOM CONTRACTOR TO STUB UP AT THIS LOCATION TO SERVE NEW IDF
3. INDICATES LOCATION OF EXISTING COMMUNICATION PULL BOX.
4. 24"x24"x24" CONCRETE PULL BOX INSTALLED FLUSH WITH GRADE FOR TELECOM SYSTEM. PROVIDE EVERY 250' OR CHANGES OF DIRECTION MORE THAN 180 DEGREES. PROVIDE WIDE SWEEPING TURN ON ALL CONDUIT ENTERING ANS EXISTING BOX AS WELL AS ALL CONDUIT TURNS ALONG ROUTE. PULL BOXES SHALL BE RATED FOR THE TERRIAN IN WHICH IT SHALL BE INSTALLED. PULL BOXES INSTALLED IN PARKING LOTS OR DRIVEWAYS MUST BE RATED FOR SUCH AN ENVIRONMENT. VERIFY PROPER LOCATION PRIOR TO INSTALLATION. TYPICAL FOR ALL SHOWN.
5. INDICATES (2) 1" CONDUITS WITH (2) NYLON PULLSTRING
6. INDICATES (2) 1" CONDUITS WITH (2) NYLON PULLSTRING IN EACH CONDUIT FROM ELECTRICAL RM. TO PULL BOXES FOR CONNECTIVITY FOR FUTURE.
7. INDICATES LOCATION OF MUSCO POLES
8. INDICATES APPROXIMATE LOCATION OF EXISTING TELECOM CONDUIT PATHWAY
9. INDICATES (1) 2" CONDUIT WITH (1) 3 CELL MAXCELL INNERDUCT. CONTRACTOR SHALL STUB UP IN CONCESSIONS B100

## GENERAL NOTES

1. ALL TELECOM AND/OR TECHNOLOGY CONDUITS SHALL UTILIZE SAME TRENCH AS ELECTRICAL CONDUIT PATHWAYS. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL CONDUITS AND PULLBOXES. REFER TO ELECTRICAL SHEET FOR ADDITIONAL SITE INFRASTRUCTURE DEATILS.
2. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITION PRIOR TO ROUGH-IN.
3. CONTRACTOR TO FOLLOW LOCAL CODE FOR ALL TRENCHED AREA WHERE CUTTING AND PATCHING IS INVOLVED. REFER TO DIVISION 26 FOR UNDERGROUND SPECIFICATIONS.
4. LOCATIONS OF ALL TECHNOLOGY DEVICES AND CONDUITS ON THIS DRAWING ARE APPROXIMATIONS. EXACT ROUTINGS AND LOCATIONS SHALL BE COORDINATED DURING CONSTRUCTION WITH ALL OTHER AFFECTED TRADES.
5. ALL UNDERGROUND CONDUIT SHALL BE RIGID PVC SCH. 40 UNLESS NOTED OTHERWISE.
6. ALL CONDUITS SHOWN ON THIS PLAN SHOULD BE MINIMUM 2" UNLESS NOTED OTHERWISE.
7. ALL CABLES SHALL RUN IN CONDUIT CONCEALED IN WALLS WHEN POSSIBLE. WHEN RUNNING IN CEILING SPACE, USE J-HOOKS TO SUPPORT PLENUM RATED CABLING. EXPOSED CONDUITS ARE NOT ACCEPTABLE ON FINISHED WALLS.
8. ALL PENETRATIONS OF FIRE-RATED WALLS SHALL BE SEALED WITH UL APPROVED FIRE STOPPING AS REQUIRED PER RATING OF WALLS.
9. CONTRACTOR SHALL REFERENCE AQUASTICS DRAWINGS FOR COORDINATION WITH ALL OTHER DISCIPLINES & SCOPE OF WORK.

## GENERAL NOTES

10. CONTRACTOR SHALL IDENTIFY EXISTING DIVISION 27 AND 28 CABLING (FIBER AND COPPER) IN EXISTING AQUATIC CENTER MDF. PULL CABLING BACK TO SOURCE IN THE MAIN BUILDING AND PROVIDE NEW CABLING AND CONNECTORS OF LIKE MAKE, MODEL AND PERFORMANCE CHARACTERISTICS OF EXISTING CABLING. ROUTE NEW CABLING FROM EXISTING DIVISION 27 AND 28 HEAD ENDS IN THE MAIN BUILDING TO NEW AQUATIC CENTER MDF RACK IN ELECTRICAL ROOM A112. CONNECT CABLING AT BOTH ENDS AND PROVIDE ALL APPURTENANCES AS REQUIRED TO PROVIDE FULLY FUNCTIONAL SYSTEMS IN THE NEW AQUATIC CENTER.
11. CONTRACTOR SHALL EXTEND CONDUIT OF SAME SIZE AND QUANTITY AND ROUTE TO NEW IDF IN ELEC. ROOM A112

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1820 RIMPAU AVE
CORONA, CA 92881

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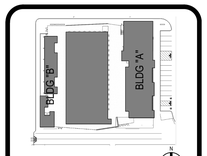


KEY PLAN

NORTH PLAN

Consultant

REGISTERED PROFESSIONAL ENGINEER
RONALD C DELA CRUZ
No. E 23576
Exp. 09-30-2023
ELECTRICAL
STATE OF CALIFORNIA

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Architect

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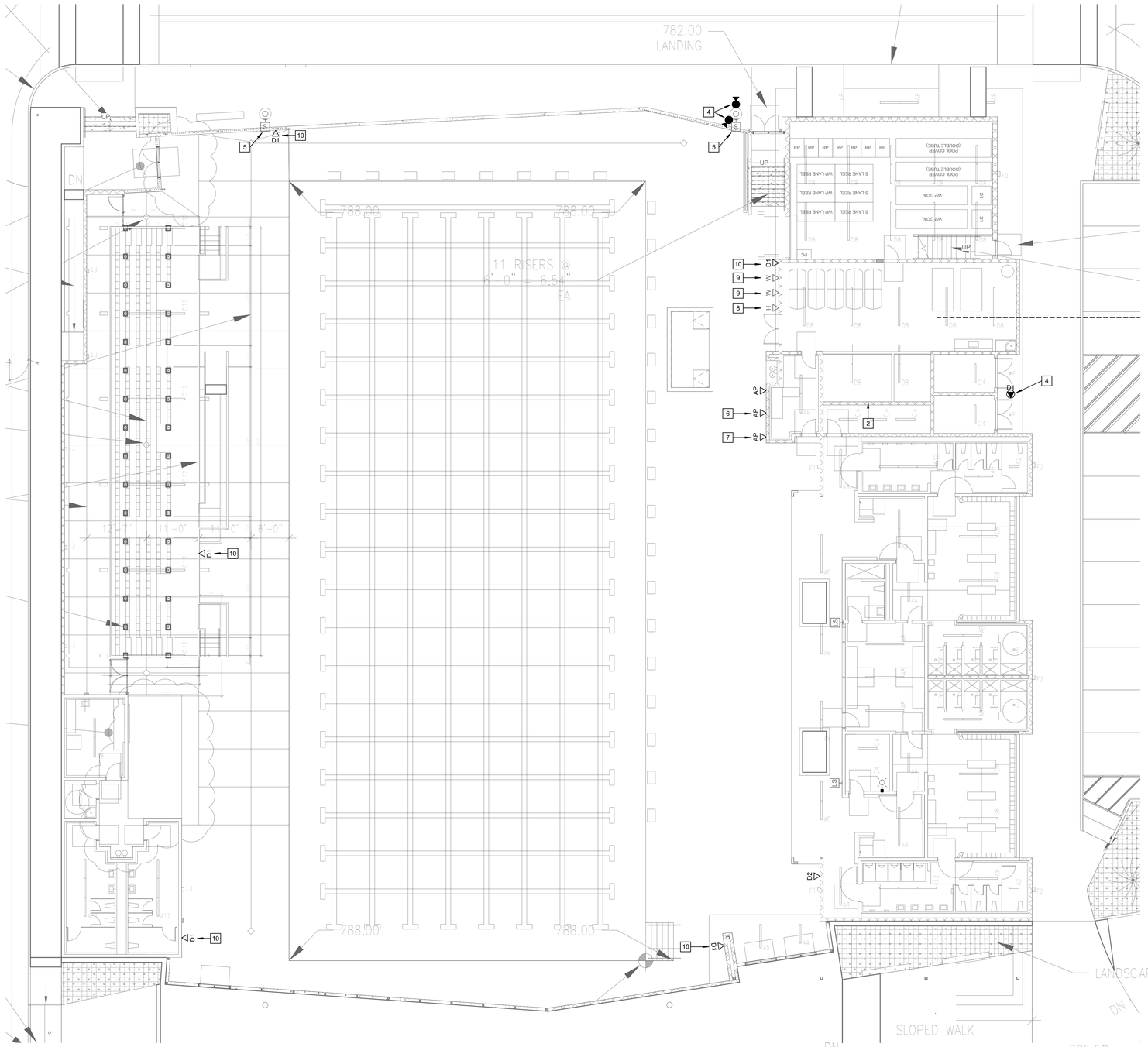
TECHNOLOGY SITE PLAN

T1.1

0" 1"




## 1 ENLARGED SITE PLAN
1" = 10'-0"

### # SITE PLAN KEYED NOTES

1. INDICATES LOCATION OF EXISTING MDF ROOM LOCATED IN MEDIA CENTER.
2. INDICATES LOCATION OF TWO (2) MIDDLE ATLANTIC #DWR-24-26 WALL MOUNT PIVOTING RACKS, EACH WITH #VFD-24 VENTED FRONT DOOR. RACKS AND DOORS PROVIDED BY THE AUDIOVIDEO CONTRACTOR. INSTALL AT 96 INCHES TO THE BOTTOM OF THE RACKS. INSTALL RACKS AS CLOSE TOGETHER AS POSSIBLE AND HAVE BOTH RACKS OPEN OUT FROM THE CENTER. PROVIDE (2) DEDICATED 120V 20A CIRCUITS IN THE BACK PAN OF EACH RACK ON A QUAD RECEPTACLE (FOUR CIRCUITS TOTAL).
3. INDICATES LOCATION OF EXISTING COMMUNICATION PULL BOX.
4. INDICATES LOCATION OF CELING MOUNTED DATA FOR FUTURE CAMERA. CAMERAS ARE OWNER FURNISHED CONTRACTOR INSTALLED. CONTRACTOR TO INSTALL DROP 156" A.F.F.
5. INDICATES LOCATION OF POLE MOUNTED SPEAKERS. SPEAKER SHALL BE MOUNTED AT 14' AFF TO THE BOTTOM OF THE SPEAKER. PROVIDE (1) WEST PENN AQ227 CABLE TO EACH SPEAKER ROUTED FROM A/V RACK.
6. INDICATES LOCATION OF DEDICATED WIRELESS ACCESS POINT FOR SCOREBOARD CONTROLS.
7. INDICATES A WIRELESS ACCESS POINT FOR THE SOUND SYSTEM. PROVIDE A SINGLE GANG BOX AT 10 FEET A.F.F. WITH (1) ¾" CONDUIT ROUTED TO THE SOUND RACK LOCATED IN ELECTRICAL ROOM A112. SOUND CONTRACTOR SHALL PROVIDE (1) CAT6 CABLE FOR CONNECTIVITY.

### # SITE PLAN KEYED NOTES

8. INDICATES THE ASSISTIVE LISTENING ANTENNA FOR THE SOUND SYSTEM. PROVIDE A 2 GANG EXTRA DEEP BACK BOX WITH A SINGLE GANG REDUCER RING AT 10 FEET A.F.F. WITH (1) 1" CONDUIT ROUTED TO THE SOUND RACK LOCATED IN ELECTRICAL ROOM A112. SOUND CONTRACTOR SHALL PROVIDE (1) COAX CABLE FOR CONNECTIVITY.
9. INDICATES A WIRELESS MICROPHONE ANTENNA FOR THE SOUND SYSTEM. PROVIDE A 2 GANG EXTRA DEEP BACK BOX WITH A SINGLE GANG REDUCER RING AT 10 FEET A.F.F. WITH (1) 1" CONDUIT ROUTED TO THE SOUND RACK LOCATED IN ELECTRICAL ROOM A112. SOUND CONTRACTOR SHALL PROVIDE (1) COAX CABLE FOR CONNECTIVITY.
10. INDICATES APPROXIMATE OF DATA DROP TO BE PROVIDED AT COMBINED CONCRETE PEDESTAL. CONTRCTOR TO PROVIDE (1) 1" BACK TO IDF RACK LOCATED IN ELEC. RM. REFER TO AQ.0. FOR ADDITIONAL INFORMATION.

### GENERAL NOTES

1. ALL TELECOM AND/OR TECHNOLOGY CONDUITS SHALL UTILIZE SAME TRENCH AS ELECTRICAL CONDUIT PATHWAYS. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL CONDUITS AND PULLBOXES. REFER TO ELECTRICAL SHEET FOR ADDITIONAL SITE INFRASTRUCTURE DEATILS.
2. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITION PRIOR TO ROUGH-IN.
3. CONTRACTOR TO FOLLOW LOCAL CODE FOR ALL TRENCHED AREA WHERE CUTTING AND PATCHING IS INVOLVED. REFER TO DIVISION 26 FOR UNDERGROUND SPECIFICATIONS.
4. LOCATIONS OF ALL TECHNOLOGY DEVICES AND CONDUITS ON THIS DRAWING ARE APPROXIMATIONS. EXACT ROUTINGS AND LOCATIONS SHALL BE COORDINATED DURING CONSTRUCTION WITH ALL OTHER AFFECTED TRADES.
5. ALL UNDERGROUND CONDUIT SHALL BE RIGID PVC SCH. 40 UNLESS NOTED OTHERWISE.
6. ALL CONDUITS SHOWN ON THIS PLAN SHOULD BE MINIMUM 2" UNLESS NOTED OTHERWISE.
7. ALL CABLES SHALL RUN IN CONDUIT CONCEALED IN WALLS WHEN POSSIBLE. WHEN RUNNING IN CEILING SPACE, USE J-HOOKS TO SUPPORT PLENUM RATED CABLING. EXPOSED CONDUITS ARE NOT ACCEPTABLE ON FINISHED WALLS.
8. ALL PENETRATIONS OF FIRE-RATED WALLS SHALL BE SEALED WITH UL APPROVED FIRE STOPPING AS REQUIRED PER RATING OF WALLS.

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# CENTENNIAL HIGH SCHOOL
# AQUATICS CENTER

PROJECT ADDRESS:
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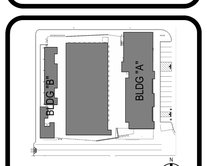


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TECHNOLOGY
ENLARGED SITE PLAN

T1.2

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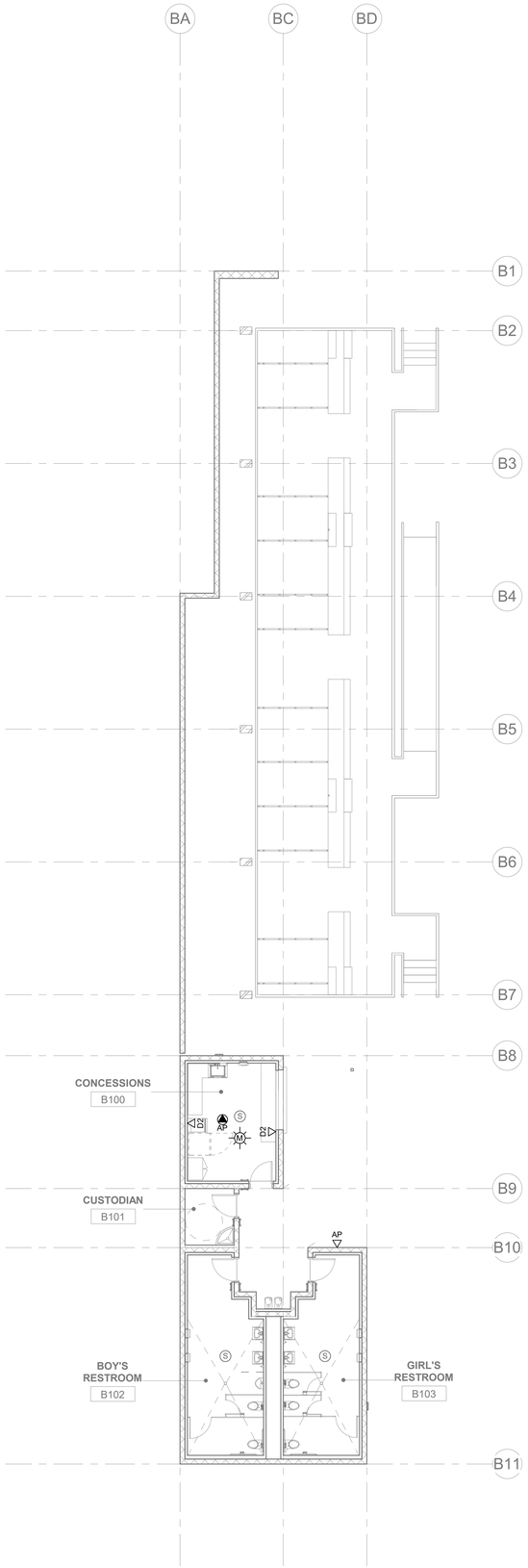
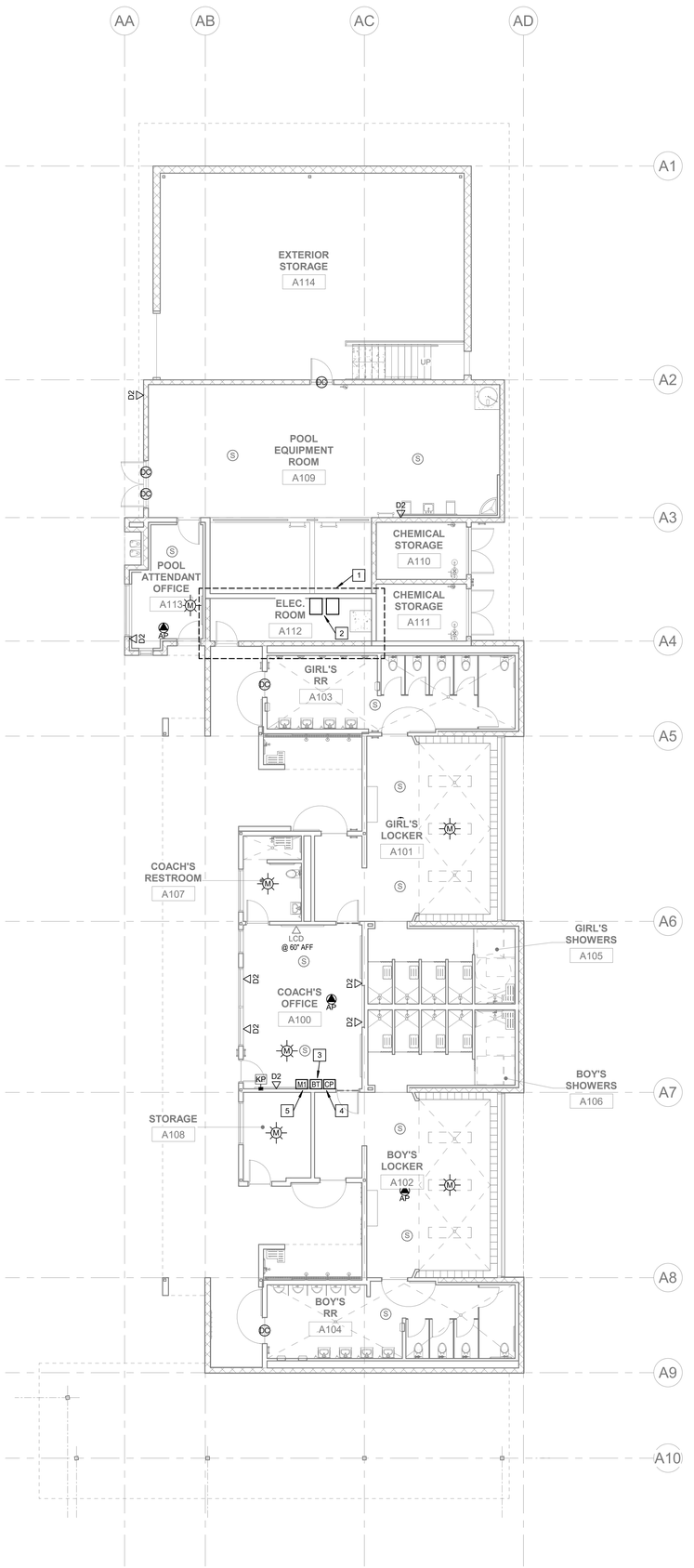
T2.1 - OVERALL TECHNOLOGY FLOOR PLANS - BLDG "A" & BLDG "B"

0" 1"




2 OVERALL FLOOR PLAN - BLDG "B"
1/8" = 1'-0"




1 OVERALL FLOOR PLAN - BLDG "A"
1/8" = 1'-0"

## KEY NOTES

**CONTRACTOR SHALL COORDINATE WITH ARCHITECT REGARDING FINAL INSTALLATION OF ALL INTERIOR AND EXTERIOR WALL, CEILING, AND SOFFIT MOUNTED DEVICES PRIOR TO ROUGH IN AND INSTALLATION.**

1 INDICATES LOCATION OF IDF ROOM. EQUIPMENT HOUSED IN THIS ROOM INCLUDES BUT NOT LIMITED TO: NETWORK EQUIPMENT AND RACKS, AUDIO/VIDEO EQUIPMENT AND DEVICES, SECURITY PANELS AND PA INTERCOM SYSTEMS.

2 INDICATES LOCATION OF TWO (2) MIDDLE ATLANTIC #DWR-24-26 WALL MOUNT PIVOTING RACKS, EACH WITH #VFD-24 VENTED FRONT DOOR. RACKS AND DOORS PROVIDED BY THE AUDIO/VIDEO CONTRACTOR. INSTALL AT 96 INCHES TO THE BOTTOM OF THE RACKS. INSTALL RACKS AS CLOSE TOGETHER AS POSSIBLE AND HAVE BOTH RACKS OPEN OUT FROM THE CENTER. PROVIDE (2) DEDICATED 120V 20A CIRCUITS IN THE BACK PAN OF EACH RACK ON A QUAD RECEPTACLE (FOUR CIRCUITS TOTAL).

3 INDICATES BLUTOOTH RECEIVER. PROVIDE 2 GANG EXTRA DEEP BACK BOX WITH A SINGLE GANG REDUCER RING AT 48 INCHES A.F.F. WITH (1) ¾" CONDUIT ROUTED TO THE SOUND RACK LOCATED IN ELECTRICAL ROOM A112. SOUND CONTRACTOR SHALL PROVIDE (2) CAT6 CABLES FOR CONNECTIVITY.

4 INDICATES SOUND SYSTEM CONTROL PANEL. PROVIDE A SINGLE GANG BACK BOX AT 54 INCHES A.F.F. WITH (1) ¾" CONDUIT ROUTED TO THE SOUND RACK LOCATED IN ELECTRICAL ROOM A112. SOUND CONTRACTOR SHALL PROVIDE (1) CAT6 CABLE FOR CONNECTIVITY.

5 INDICATES A SINGLE MICROPHONE INPUT. PROVIDE A SINGLE GANG BOX AT 18 INCHES A.F.F. WITH (1) ¾" CONDUIT ROUTED TO THE SOUND RACK LOCATED IN ELECTRICAL ROOM A112. SOUND CONTRACTOR SHALL PROVIDE MICROPHONE CABLE FOR CONNECTIVITY.

1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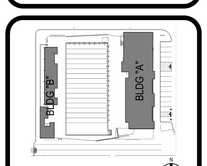


KEY PLAN NORTH: PLAN

Consultant

REGISTERED PROFESSIONAL ENGINEER RONALD C DELA CRUZ No. E 23578 Exp. 09-30-2023 ELECTRICAL STATE OF CALIFORNIA

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Architect

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OVERALL TECHNOLOGY FLOOR PLANS - BLDG "A" & BLDG "B"

T2.1

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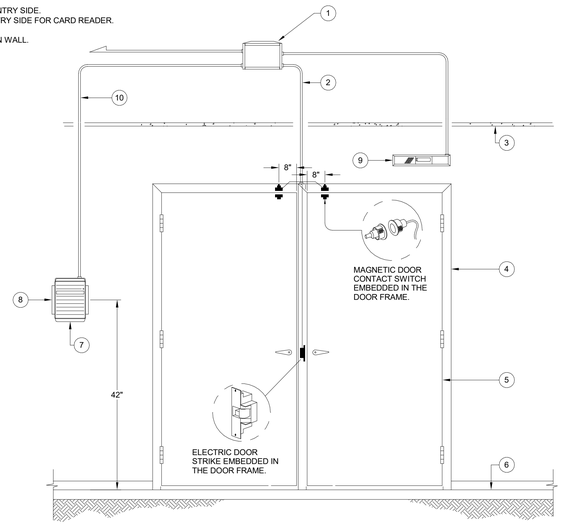
1. JUNCTION BOX.
2. FLEX OR CONDUIT EMBEDDED IN THE WALL DOWN TO DOOR FRAME.
3. CEILING LINE.
4. DOOR FRAME.
5. DOOR.
6. FINISHED FLOOR.
7. PROXIMITY CARD READER AT ENTRY SIDE.
8. EMBEDDED J-BOX OPEN ON ENTRY SIDE FOR CARD READER.
9. REQUEST TO EXIT DEVICE.
10. FLEX OR CONDUIT EMBEDDED IN WALL.

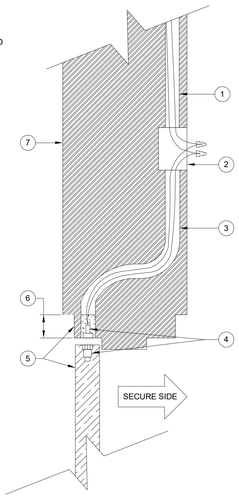



NOTE:

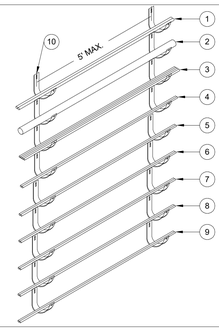
A. ELECTRICAL CONTRACTOR TO COORDINATE ALL BOX AND CONDUIT REQUIRED ROUTING AND MOUNTING LOCATION WITH THE PROJECT'S CONSULTANT PRIOR TO ROUGH-IN. THE ACCESS CONTROL SYSTEM, INCLUDING ACCESS CONTROL CABLING AND CARD READERS, IS NOT PART OF THIS BASE PROPOSAL. THIS DETAIL IS FOR CONDUIT AND BACK BOX ROUGH-IN ONLY

## DOUBLE DOOR CARD READER INTERFACE DETAIL — N.T.S — 08

1. 3/4" CONDUIT WITH 22 GAUGE UTP RE: SPECIFICATIONS.
2. 4" x 4" DEEP JUNCTION BOX WITH COVER MOUNTED 12" ABOVE DOOR JAM OR AS HIGH AS POSSIBLE ABOVE THE DOOR.
3. 3/4" CONDUIT.
4. MAGNETIC DOOR CONTACT. REFER TO SPECIFICATIONS.
5. DOOR AND FRAME. RE: ARCHITECTURAL DRAWING(S).
6. MAXIMUM OF 2" WITH CLEAR WIRING PATH TO SWITCH.
7. WALL CONSTRUCTION.




## DOOR CONTACT DETAIL — N.T.S — 05




1. FIBER OPTIC BACKBONE
2. UPPER BACKBONE
3. SECURITY
4. FIRE ALARM
5. CCTV
6. VOICE AND DATA
7. WIRELESS ACCESS POINTS
8. PA / INTERCOM
9. CLOCKS
10. FASTEN WITH 1/4" X 2 1/2" LAG SCREW (TYP.)

NOTES:

A. NO MORE THAN 24 CABLES PER 2.5" SUPPORT.

B. SUPPORTS SHALL BE INSTALLED AT A MAXIMUM 5' ON CENTER.

C. SUPPORTS SHALL BE A MINIMUM 3" ABOVE SUSPENDED CEILING.

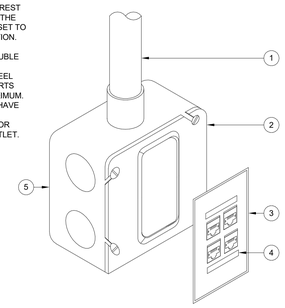
D. SEPARATE SUPPORTS REQUIRED FOR EACH CABLE TYPE AS ILLUSTRATED. EACH SYSTEM CONTRACTOR TO PROVIDE AND INSTALL THE SUPPORTS FOR THEIR OWN SYSTEM.

E. SUPPORTS SHALL ATTACHED TO THE BUILDING STRUCTURE.

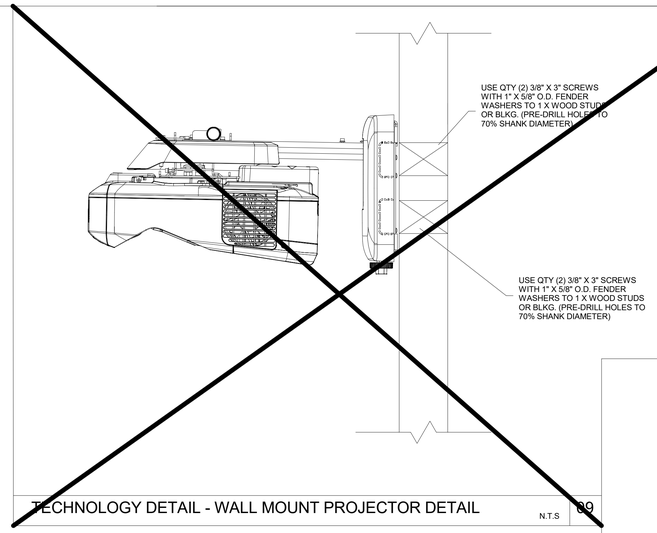
F. ALL SUPPORTS SHALL BE INSTALLED AT A SERVICEABLE HEIGHT.

## CABLE SUPPORT DETAIL — N.T.S — 01

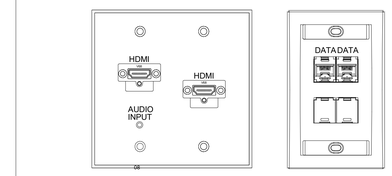
1. 1" CONDUIT TO THE NEAREST ACCESSIBLE CEILING IN THE DIRECTION OF THE CLOSET TO BE USED FOR TERMINATION.
2. PROVIDE SINGLE GANG REDUCER RING FOR DOUBLE GANG BOX.
3. PROVIDE STAINLESS STEEL FACEPLATE WITH (4) PORTS MINIMUM (6) PORTS MAXIMUM.
4. THE FACE PLATE MUST HAVE LABELS WINDOWS.
5. PROVIDE 2 GANG BOX FOR EACH TECHNOLOGY OUTLET.



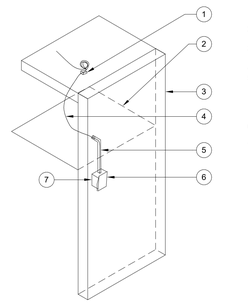
## TECHNOLOGY OUTLET BOX DETAIL — N.T.S — 02




## TECHNOLOGY DETAIL - WALL MOUNT PROJECTOR DETAIL — N.T.S — 09

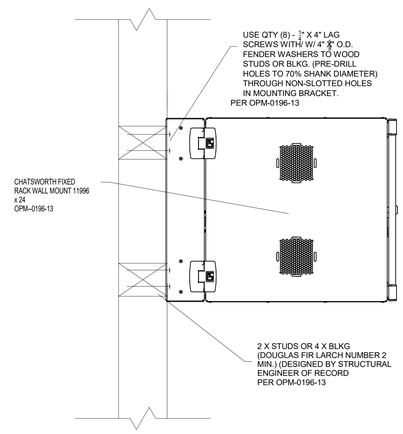



## PS / D2 OUTLET DETAIL — N.T.S — 06

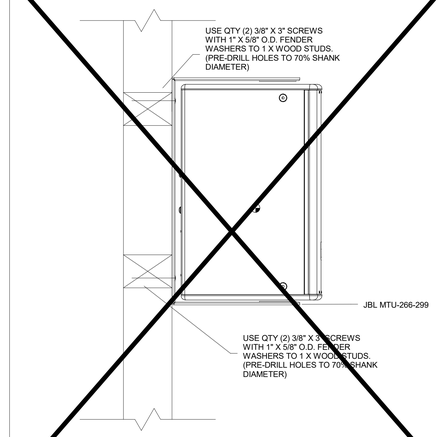


1. TYPICAL ABOVE CEILING DATA OUTLET.
2. CEILING DECK AS SCHEDULED (BY OTHERS).
3. INTERIOR WALL AS SCHEDULED (BY OTHERS).
4. PATCH CORD.
5. 3/4" EMT CONDUIT FROM DOUBLE GANG BOX WITH 200 lbs. PULL STRING AND NYLON BUSING STUBBED OUT ABOVE ACCESSIBLE CEILING.
6. INTERIOR WALL MOUNTED INTERIOR DEVICE.
7. RECESSED DOUBLE GANG BOX.

## INTERIOR WALL MOUNTED DEVICE — N.T.S — 03




## TECHNOLOGY DETAIL - WALL MOUNT SERVER RACK DETAIL — N.T.S — 07




## INTERIOR WALL MOUNTED LOCAL SPEAKER — N.T.S — 04

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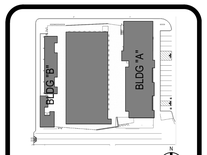


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# TECHNOLOGY DETAILS

This document is for plan review only

T6.1

FA0.0 - FIRE ALARM SCHEDULE, NOTES AND ABBREVIATIONS

0" 1"

## DEVICE SCHEDULE

| SYMBOL | DESCRIPTION | MODEL | MANUFACTURER | BACKBOX | MOUNTING HEIGHT | C.S.F.M. NUMBER |
|---|---|---|---|---|---|---|
| FACP | EXISTING FIRE ALARM CONTROL PANEL | NFS2-640 | NOTIFIER | PROVIDED | | --- |
| FATC | FIRE ALARM TERMINAL CABINET | N/A | BY ELECTRICAL CONTRACTOR | N/A | | N/A |
| FAPS | FIRE ALARM POWER SUPPLY | FCPS-24S8 | NOTIFIER | N/A | | 7315-0028:0225 |
| S/P | ADDRESSABLE AREA SMOKE DETECTOR (PHOTOELECTRIC) | FSP-951 B210LP | NOTIFIER | 4S DEEP BOX W/ 3-0 RING | CEILING | 7272-0028:0503 7300-1653:0109 |
| I/A I/C | ADDRESSABLE AREA HEAT DETECTOR | FST-851H B210LP | NOTIFIER | 4S DEEP BOX W/ 3-0 RING | A = ATTIC / C = CEILING | 7270-0028:0196 7300-1653:0109 |
| WP | FIRE ALARM EXTERIOR WEATHERPROOF HORN | HRK | SYSTEM SENSOR | 4S DEEP BOX W/ 4S EXTENSION | | 7135-1653:0189 |
| | FIRE ALARM CEILING MOUNTED HORN/STROBE | PC4W | SYSTEM SENSOR | 4S DEEP BOX W/ 4S EXTENSION | | 7125-1653:0188 |
| | FIRE ALARM CEILING MOUNTED STROBE | SCW | SYSTEM SENSOR | 4S DEEP BOX W/ 4S EXTENSION | | 7125-1653:0186 |
| JB | FIRE ALARM JUNCTION BOX | N/A | BY ELECTRICAL CONTRACTOR | N/A | | N/A |
| EOL | END OF LINE RESISTOR | N/A | N/A | N/A | | N/A |
| WP I/C | WEATHERPROOF HEAT DETECTOR ADDRESSABLE MONITOR MODULE | 302-ET-194 FMM-1 | NOTIFIER | 4S DEEP BOX W/ 3-0 RING | | 7270-0021:0001 7300-0028:0219 |
| CR | ADDRESSABLE CONTROL RELAY | FRM-1 | NOTIFIER | 4S DEEP BOX W/ 3-0 RING | | 7300-0028:0219 |

NOTE:
1. UNLESS NOTED AS EXISTING, ALL THE DEVICES SHOWING ON THE DRAWINGS ARE NEW.

## LEGENDS

| ABBREVIATION | DESCRIPTION | ABBREVIATION | DESCRIPTION |
|---|---|---|---|
| A OR AMP | AMPERES | NIC | NOT IN CONTRACT |
| AFF | ABOVE FINISHED FLOOR | NO. | NUMBER |
| AIC | AMPERES INTERRUPTING CAPACITY | PH. OR Ø | PHASE |
| ARCH. | ARCHITECT; ARCHITECTURAL | PNL | PANEL |
| AWG | AMERICAN WIRE GAUGE | PWR | POWER |
| C | CONDUIT | REC/RECEPT | RECEPTACLE |
| CKT | CIRCUIT | REQ'D | REQUIRED |
| CL. | CEILING MOUNTED DEVICE | RM | ROOM |
| C.O. | CONDUIT ONLY WITH PULL WIRE | SF | SQUARE FEET |
| CU | COPPER | SHT | SHEET |
| DWG | DRAWING | SP | SINGLE POLE |
| ER | EXISTING DEVICE TO BE REMOVED | SPECS | SPECIFICATIONS |
| EMT | ELECTRICAL METALLIC TUBING | SW | SWITCH |
| EQUIP | EQUIPMENT | TYP | TYPICAL |
| EXIST / (E) | EXISTING | UG | UNDERGROUND |
| FIN. | FINISH | U.O.N. | UNLESS OTHERWISE NOTED |
| FLR | FLOOR | V | VOLTS |
| FT | FEET | V-A | VOLT-AMPERES |
| GFI | GROUND FAULT INTERRUPTER | W | WATTS |
| GND | GROUND | W/ | WITH |
| LTG. | LIGHTING | W/O | WITHOUT |
| MTG | MOUNTING | WP | WEATHERPROOF |
| N | NEW | CEC | CALIFORNIA ELECTRICAL CODE |

FS FLOW SWITCH
JB JUNCTION BOX
PIV POST INDICATOR VALVE
TS TEMPER SWITCH
PULL BOX (WEATHERPROOF)
## RISER UP AND DOWN
SFD COMBINATION SMOKE FIRE DAMPER

## APPLICABLE CODES

PARTIAL LIST OF APPLICABLE CODES:
2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR
2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR
2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR
2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR
2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR
2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR
2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR
2022 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 CCR
2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 CCR
TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

PARTIAL LIST OF APPLICABLE STANDARDS
NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED): 2016 EDITION
NFPA 720 STANDARD FOR THE INSTALLATION OF CARBON MONOXIDE DETECTION AND WARNING EQUIPMENT; 2016 EDITION
NFPA 80 STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES; 2016 EDITION
UL 464 AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES; 2003 EDITION
UL 521 STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS; 1999 EDITION
UL 1971 STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED; 2002 EDITION (R2010)

FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2022 CBC (SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80.

SEE CALIFORNIA BUILDING CODE, CHAPTER 35, FOR STATE OF CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS.

## DRAWING INDEX


| SHEET | DESCRIPTION |
|---|---|
| FA0.0 | FIRE ALARM SCHEDULE, NOTES AND ABBREVIATIONS |
| FA1.1 | FIRE ALARM SITE PLAN |
| FA2.1 | OVERALL FIRE ALARM FLOOR PLANS - BLDG "A" & BLDG "B" |
| FA6.1 | FIRE ALARM DETAILS, PARTIAL RISER DIAGRAM AND CALCULATIONS |


## FIRE WATCH NOTE

A FIRE WATCH SHALL BE ESTABLISHED AND THE FIRE DEPARTMENT & FIRE CODE OFFICIAL SHALL BE NOTIFIED IMMEDIATELY WHENEVER THE FIRE PROTECTION / ALARM SYSTEM IS RENDERED OUT OF SERVICE. A FIRE WATCH SHALL BE STAGED WHENEVER THE BUILDING IS OCCUPIED (PARTIAL OR WHOLE) PER DSA IR F-2 AND CFC 901.7.

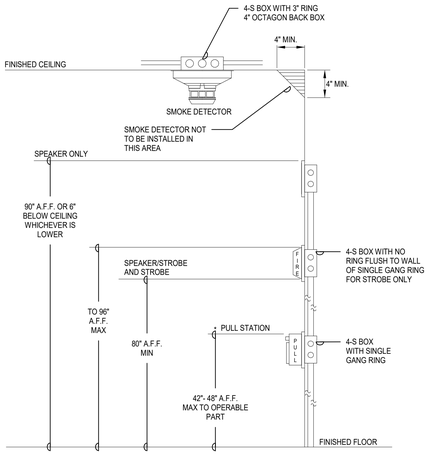
## SCOPE OF WORK

PROVIDE COMPLETE FULL AUTOMATIC ADDRESSABLE FIRE ALARM SYSTEM WITHIN THE AREA OF WORK.
PROVIDE FIRE ALARM SYSTEM DEVICES AS SHOWN IN EQUIPMENT LEGEND, FLOOR PLANS, AND SPECIFICATIONS IN THIS CONSTRUCTION DOCUMENT SET. USE EXISTING FIRE ALARM CONTROL PANEL TO CONNECT NEW FIRE ALARM SYSTEM DEVICES SHOWN PER DRAWING AND SPECIFICATION DOCUMENT. UPON COMPLETION, A COMPLETE PRE TEST SHALL BE PERFORMED TO VERIFY FUNCTIONALITY, IF FUNCTIONALITY IS COMPLETE THEN THE PROPER DOCUMENTATION SHALL BE SUBMITTED TO THE AUTHORITY HAVING JURISDICTION PRIOR TO SCHEDULING A FINAL INSPECTION.

## GENERAL NOTES

1. APPLICABLE STANDARD 2016. NFPA 72, AS ADOPTED AND AMENDED IN CBC CHAPTER 35
2. INSTALLATION OF THE SYSTEMS SHALL NOT BE STARTED UNTIL DETAILED DESIGN DOCUMENTS AND SPECIFICATION, INCLUDING STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM, HAS BEEN APPROVED BY DSA.
3. UPON COMPLETION OF SYSTEM INSTALLATION, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF A DSA PROJECT INSPECTOR.
4. A STAMPED SET OF APPROVED FIRE ALARM DESIGN DOCUMENTS SHALL BE ON THE JOB SITE AND USED FOR INSTALLATION.
5. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF DSA AND THE ARCHITECT/ENGINEER OF THE PROJECT.
6. DSA, ARCHITECT/ENGINEER AND OWNER SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO THE FINAL INSPECTION AND IOR TESTING.
7. ALL PENETRATIONS THROUGH RATED ASSEMBLIES REQUIRING OPENING PROTECTION SHALL BE PROVIDED WITH A PENETRATION FIRE STOP SYSTEM AS IDENTIFIED IN CBC CHAPTER 7, UL OR OTHER APPROVED LAB TESTING CRITERIA. APPROVED TYPES OF MATERIALS SHALL BE IDENTIFIED WITHIN THE PROJECT SPECIFICATIONS WITHIN THE FIRE ALARM SECTION.
8. WALL MOUNTED VISIBLE NOTIFICATION DEVICES SHALL HAVE THEIR BOTTOMS MOUNTED AT 80" MINIMUM AND 96" MAXIMUM FROM FINISHED FLOOR.
9. WALL MOUNTED AUDIBLE NOTIFICATION DEVICES SHALL HAVE THEIR TOPS MOUNTED AT 90" MINIMUM AND 100" MAXIMUM FROM FINISHED FLOOR AND NO CLOSER THEN 6" TO A HORIZONTAL STRUCTURE.
10. AUDIBLE DEVICES SHALL PROVIDE A SOUND PRESSURE LEVEL OF 15 DECIBELS (DBA) ABOVE THE AVERAGE AMBIENT SOUND LEVEL OR FIVE DBA ABOVE THE MAXIMUM SOUND LEVEL HAVING A DURATION OF AT LEAST 60 SECONDS, WHICHEVER IS GREATER, IN EVERY OCCUPIABLE SPACE WITHIN THE BUILDING.
11. AUDIBLE DEVICES SHALL BE SYNCHRONIZED TEMPORAL CODE 3 PATTERN.
12. THE CONTRACTOR SHALL ADJUST/INSTALL ALL DEVICES TO MAXIMIZE PERFORMANCE AND TO MINIMIZE FALSE ALARMS.
13. VISIBLE DEVICES SHOULD NOT EXCEED TWO FLASHES PER SECOND AND SHOULD NOT BE SLOWER THAN ONE FLASH EVERY SECOND. THE DEVICE SHALL HAVE A PULSING LIGHT SOURCE NOT LESS THAN 15 CANDELLA. VISIBLE DEVICES WITHIN 55' FROM EACH OTHER SHALL BE SYNCHRONIZED.
14. UNDERGROUND AND EXTERIOR CONDUITS TO HAVE WATER TIGHT FITTINGS AND WIRE TO BE APPROVED FOR WET LOCATIONS.
15. ALL FIRE ALARM WIRING SHALL BE FPLOR FPLP (FIRE POWER LIMITED OR FIRE POWER LIMITED PLENUM) AS REQUIRED FOR APPLICATION. WIRING IN CONDUIT ABOVE GROUND MAY BE TYPE THHN OR THWN.
16. PER CEC STANDARDS, ALL WIRING IS TO BE PULLED THROUGH EACH JUNCTION BOX AND CONNECTED DIRECTLY TO EACH FIRE DEVICE. DO NOT SPLICE THE WIRE. ALL BOXES TO BE SIZED PER CEC.
17. SMOKE DETECTORS SHALL NOT BE ANY CLOSER THAN 1' FROM FIRE SPRINKLERS OR 3' FROM ANY SUPPLY DIFFUSER. IN AREA OF CONSTRUCTION OR POSSIBLE DAMAGE/CONTAMINATION ON NEWLY INSTALLED FIRE ALARM, DEVICES SHALL BE COVERED UNTIL THAT AREA IS READY TO BE TURNED OVER TO THE OWNER.
18. ALL FIRE ALARM CIRCUITS SHALL BE IN CONDUIT, SURFACE RACEWAY OR OPEN RUN ABOVE CEILINGS, UNDER FLOORS AND IN WALLS IN A NEAT AND PROTECTED MANOR AS INDICATED ON DESIGN DOCUMENTS.
19. EXPOSED CIRCUITS ARE ONLY PERMITTED WHEN NOTED AS EXPOSED ON DESIGN DOCUMENTS.
20. FIRE ALARM PANEL, REMOTES, AND COMPONENTS SHALL BE SECURED TO MOUNTING SURFACES PER MANUFACTURERS SPECIFICATIONS. NO SINGLE DEVICE SHALL EXCEED 20 LBS. WITHOUT SPECIAL MOUNTING DETAILS.
21. A DEDICATED BRANCH CIRCUIT SHALL BE PROVIDED FOR FIRE ALARM EQUIPMENT. THIS CIRCUIT SHALL BE ENERGIZED FROM THE COMMON USE AREA PANEL AND SHALL HAVE NO OTHER OUTLETS. THE BREAKER SHALL HAVE A RED LOCKING DEVICE TO BLOCK THE HANDLE IN THE "ON" POSITION. THE CIRCUIT BREAKER SHALL BE LABELED "FIRE ALARM CIRCUIT CONTROL." CIRCUIT ID TO BE LABELED AT FIRE PANEL/EXTENDERS.
22. THE INSTALLING CONTRACTOR SHALL PROVIDE A COMPLETED "SYSTEM RECORD OF COMPLETION" PER NFPA 72, FIGURE 7.8.2.
23. FIRE ALARM CONTROL PANELS AND REMOTE ANNUNCIATORS SHALL BE INSTALLED WITH THEIR BOTTOMS MOUNTED AT 48" ABOVE THE FINISHED FLOOR.
24. MICROPHONES ASSOCIATED WITH EMERGENCY VOICE ALARM COMMUNICATION SYSTEMS (EVAC) SHALL BE ACCESSIBLE FOR USE, INSTALLED IN COMPLIANCE WITH CBC SECTIONS 11B-305 AND 11B-308.
25. THE INSTALLING CONTRACTOR SHALL PROVIDE SYSTEM PROGRAMMING FOR SUPERVISORY MONITORING PER CBC SECTION 901.6.2.
26. SUPERVISORY MONITORING SHALL BE TESTED AND VERIFIED AS SENDING CORRECT SIGNALS IN CONJUNCTION WITH FINAL ACCEPTANCE TEST.
27. OWNER SHALL BE RESPONSIBLE FOR ESTABLISHING A FIRE SYSTEM MONITORING CONTRACT OR PROVISIONS.
28. ALL CARBON MONOXIDE SIGNALS SHALL SOUND A FOUR-PULSE TEMPORAL PATTERN PER NFPA 720, 5.8.6.5.1.
29. ALL EQUIPMENT SHALL BE U.L. AND C.S.F.M. LISTED.
30. ELECTRICAL CONTRACTOR SHALL FURNISH ACCESS PANELS TO AREAS THAT REQUIRE ACCESS FOR ATTIC HEAT DETECTOR, SERVICING, TROUBLESHOOTING, ETC.
31. DO NOT DEVIATE FROM CONDUIT RUNS AS SHOWN ON FLOOR PLANS WITHOUT PRIOR APPROVAL FROM SYSTEM SUPPLIER. FACTORS SUCH AS EXCESSIVE VOLTAGE DROP, ADDITIONAL PARTS, ENGINEERING, ETC., THAT ARE A RESULT OF CONDUIT RUN DEVIATIONS SHALL BE THE SOLE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
32. ALL FAN SHUTDOWN FUNCTIONS, DAMPER CLOSURES, AND ASSOCIATED MECHANICAL SYSTEM FIRE ALARM I NTERFACE SHALL BE BY MECHANICAL CONTRACTOR.
34. ALL 120VAC POWER REQUIREMENTS FOR THE FIRE ALARM SYSTEM SHALL BE FURNISHED BY THE ELECTRICAL CONTRACTOR AND SHALL MEET ALL REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION.
35. ALL FIRE ALARM DEVICE BACKBOXES, FIRE ALARM TERMINAL CABINETS, GUTTERS, JUNCTION BOXES, AND ASSOCIATED CONDUITS SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED. REFER TO FIRE ALARM SYMBOL LIST AND/OR MOUNTING DETAILS FOR ADDITIONAL INFORMATION. SYSTEM SUPPLIER PROVIDED BACKBOXES SHALL BE INSTALLED BY ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED.
36. SMOKE DETECTOR TESTING SHALL BE ACCOMPLISHED PER THE MANUFACTURERS INSTRUCTIONS.
37. ALL WIRING, INITIATING DEVICES AND ANNUNCIATOR PANEL SHALL BE SUPERVISED TO THE PRINCIPAL POINT OF ANNUNCIATION. THE FIRE ALARM CONTROL PANEL TO SUPERVISE THE ANNUNCIATOR PANEL, ALL INITIATING AND INDICATING DEVICE CIRCUITS.
38. ALL WIRING SHALL BE CUT FOR IN AND OUT. WIRING SHALL NOT BE LOOPED THROUGH DEVICES.
39. POINT, COMMON ANNUNCIATION, AND T-TAPPING ARE PROHIBITED.
40. PROVIDE 3/4" CONDUIT FROM FIRE ALARM CONTROL PANEL TO TELEPHONE BACKBOARD FOR OWNER PROVIDED CENTRAL STATION MONITORING.
41. ALL CONDUIT SHALL BE 3/4" UNLESS OTHERWISE NOTED.
43. ALL DEVICES IN THE ALARM SYSTEM SHALL BE COMPATIBLE AND INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
44. FIRE ALARM SYSTEM SHALL BE UL LISTED (UUJS).
45. CBC 907.6.5.3 (SFM AMENDMENT) REQUIRES FIRE ALARM TO... "TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISORY STATION IN ACCORDANCE WITH NFPA 72. THE SUPERVISORY STATION SHALL BE LISTED AS EITHER UUFX (CENTRAL STATION) OR UUJS (REMOTE AND PROPRIETARY) BY THE UNDERWRITERS LABORATORY INC. (UL) OR OTHER APPROVED LISTING AND TESTING LABORATORY OR SHALL COMPLY WITH THE REQUIREMENTS OF STANDARD, FM 3011)."
46. SUBSTITUTION OF SYSTEM COMPONENTS OR MANUFACTURER WILL REQUIRE THE CONTRACTOR TO SEPARATELY OBTAIN APPROVAL WITH THE DSA AT CONTRACTOR'S EXPENSE AND SHALL MEET ALL REQUIREMENTS OF THE SYSTEM AS DESIGNED AND PRE-APPROVED. ALL PROPOSED SUBSTITUTIONS SHALL BE LISTED WITH THE CALIFORNIA STATE FIRE MARSHAL.
47. FINAL ACCEPTANCE TEST TO INCLUDE TESTING THE CONNECTION BETWEEN THE FIRE ALARM PANEL AND THE SUPERVISING STATION.
48. COORDINATE WITH THE ENGINEER FOR USE OF EXISTING CONDUIT ON A CASE BY CASE BASIS.
49. PRIOR TO DEMOLITION, CONTRACTOR SHALL TEST THE INTERCOM SYSTEM TO ENSURE FULL FUNCTIONALITY. GENERATE A LIST OF FAULTY EQUIPMENT AND PROVIDE TO THE OWNER AND THE ARCHITECT. PROVIDE PRICING FOR ANY REQUIRED EQUIPMENT REPAIRS OR REPLACEMENT.
50. CONTRACTOR SHALL DISCONNECT EXISTING FIRE ALARM SYSTEM FROM THE EXISTING INTERCOM SYSTEM. ENSURE THE INTERCOM SYSTEM IS COMPLETELY FUNCTIONAL AFTER DISCONNECTION.
51. CONTRACTOR SHALL CLEARLY MARK THE ABANDON SECTION OF PUBLIC ADDRESS SYSTEM.
52. PROVIDE A FIRE ALARM DOCUMENTATION CABINET PER NFPA72,7.7.
53. FIRE SAFETY DURING DEMOLITION AND CONSTRUCTION SHALL COMPLY WITH CBC CHAPTER 33 AND CFC CHAPTER 33.
54. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE DSA APPROVED DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CALIFORNIA CODE OF REGULATION CHANGE DOCUMENT, OR A SEPERATE SET OF PLANS AND SPECIFICATIONS DETAILING AND SPECIFYING THE REQUIRED REPAIR WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE REPAIR WORK (CAC 4-317(C)).
55. CHANGES TO THE DIVISION OF THE STATE ARCHITECT APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA OR CONSTRUCTION CHANGE DOCUMENTS FOR CHANGES TO THE STRUCTURAL, ACCESSIBILITY OR FIRE -SAFETY PORTIONS OF THE PROJECT. CHANGES SHALL BE SUBMITTED TO AND APPROVED BY DSA PRIOR TO COMMENCEMENT OF THE WORK SHOWN THEREON CAC 4-338(C)).
56. PROJECT INSPECTOR TO APPROVE SYSTEM VOICE-EVACUATION INTELLIGIBILITY DURING TESTING PHASE.
57. CONTRACTOR SHALL PROVIDE ALL CABLING, RELAYS, MOUNTING HARDWARE AND ANY OTHER DEVICES (FIRE ALARM SYSTEM DEVICES) TO PROVIDE A FULLY FUNCTIONING FIRE ALARM OVERRIDE SYSTEM. WHEN FIRE ALARM CEASES, EACH LOCAL SOUND SYSTEM SHALL AUTOMATICALLY REVERT TO NORMAL OPERATION. FIRE ALARM MODULES AND CABLING BY FIRE ALARM CONTRACTOR.
58. FOR ALL HEAT DETECTORS THAT ARE LOCATED ABOVE CEILING/ATTIC SPACES, CONTRACTOR SHALL PROVIDE STICKER AND LABEL "HD" AT THE REFLECTED CEILING DIRECTLY BELOW THE DEVICE TO INDICATE LOCATION.
59. NOTIFICATION APPLIANCES USED FOR SIGNALING OTHER THAN FIRE SHALL NOT HAVE THE WORD "FIRE" OR ANY FIRE SYMBOL, IN ANY FORM (I.E., STAMPED, IMPRINTED, ETC.) ON THE APPLIANCE VISIBLE TO THE PUBLIC. NOTIFICATION APPLIANCES WITH MULTIPLE VISIBLE ELEMENTS SHALL BE PERMITTED TO HAVE FIRE MARKING ONLY ON THOSE VISIBLE ELEMENTS USED FOR FIRE SIGNALING. PER NFPA 72, 18.3.3.2/ NFPA 720, 6.3.3.2/ IR 9-2, 5.4.4 & 5.4.5.
60. AUTOMATIC FIRE ALARM SYSTEMS SHALL BE MONITORED AND SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION IN ACCORDANCE WITH NFPA 72. THE SUPERVISING STATION SHALL BE LISTED AS EITHER UUFX (CENTRAL STATION) OR UUJS (REMOTE & PROPRIETARY) BY THE UNDERWRITERS LABORATORY INC. (UL) OR OTHER APPROVED LISTING AND TESTING LABORATORY OR SHALL COMPLY WITH THE REQUIREMENTS OF FM 3011. TERMINATION OF MONITORING SERVICES SHALL BE IN ACCORDANCE WITH SECTION 907.6.6.2.
61. THE NEW PROJECT SUBMITTAL TO INCLUDE DIRECTION THAT FIRE ALARM SYSTEM RECORD OF COMPLETION AND FIRE ALARM SYSTEM RECORD OF INSPECTION AND TESTING FORM THESE TWO DOCUMENTS FROM NFPA 72 ARE TO BE COMPLETED AND SUBMITTED PRIOR TO CLOSE OUT OF THE PROJECT. A COPY OF COMPLETED AND SIGNED FORM SHALL BE GIVEN TO THE ARCHITECT OR ENGINEER OF RECORD, THE PROJECT INSPECTOR, THE OWNER (SCHOOL DISTRICT) AND LOCAL FIRE AUTHORITY.

## ELEVATION MOUNTING DETAIL




NOTES:

THE ENTIRE LENS OF STROBE LIGHTS MUST BE BETWEEN 80" AND 96" ABOVE FLOOR FINISH (AFF)

IF CEILING HEIGHTS EXCEED 30 FEET, STROBE LIGHTS MUST BE SUSPENDED AT OR BELOW 30 FEET

MANUAL FIRE ALARM BOXES SHALL BE INSTALLED IN ACCORDANCE WITH SECTIONS 907.3.1 THROUGH 907.3.5

MANUAL FIRE ALARM BOXES SHALL BE LOCATED NOT MORE THAN 5 FEET FROM THE ENTRANCE TO EACH EXIT. ADDITIONAL MANUAL FIRE ALARM BOXES SHALL BE LOCATED SO THAT THE TRAVEL DISTANCE TO THE NEAREST BOX DOES NOT EXCEED 200 FEET.

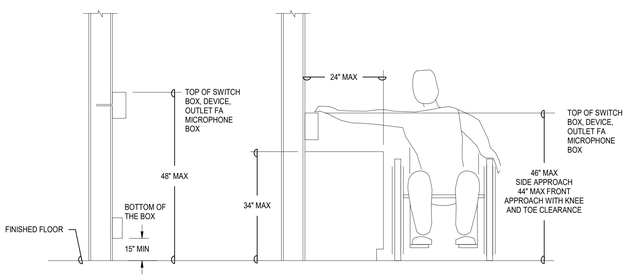
THE HEIGHT OF THE MANUAL FIRE ALARM BOXES SHALL BE A MINIMUM OF 42 INCHES AND A MAXIMUM OF 48 INCHES, MEASURED VERTICALLY, FROM THE FLOOR LEVEL TO THE HIGHEST POINT OF THE ACTIVATING HANDLE OR LEVER OF THE BOX. MANUAL FIRE ALARM BOXES SHALL ALSO COMPLY WITH 2019 CBC SECTION 11B-309.4.

PER NFPA 72 CHAPTER A.17.7.4.1 DETECTORS SHOULD NOT BE LOCATED IN ADIRECT AIRFLOW OR CLOSER THAN 36 IN. (910 MM) FROM AN AIR SUPPLY DIFFUSER OR RETURN AIR OPENING. SUPPLY OR RETURN SOURCES LARGER THAN THOSE COMMONLY FOUND IN RESIDENTIAL AND SMALL COMMERCIAL ESTABLISHMENT CAN REQUIRE GREATER CLEARANCE TO SMOKE DETECTORS. SIMILARLY, SMOKE DETECTORS SHOULD BE LOCATED FARTHER AWAY FROM HIGH VELOCITY AIR SUPPLIES.

## SEQUENCE OF OPERATIONS

| DEVICE / ACTION | AREA SMOKE DETECTOR | HEAT DETECTOR | 120VAC POWER FAILURE | SHORT CIRCUIT | GROUND FAULT | BATTERY FAILURE |
|---|---|---|---|---|---|---|
| SOUND ALARM AT "FACP" | **YES** | **YES** | NO | NO | NO | NO |
| SOUND TROUBLE BUZZER AT "FACP" | NO | NO | **YES** | **YES** | **YES** | **YES** |
| ANNUNCIATE AT "FACP" AND THE REMOTE ANNUNCIATOR (ALARM OR TROUBLE) | **YES** | **YES** | **YES** | **YES** | **YES** | **YES** |
| ACTIVATE AUDIBLE / VISUAL ALARM SIGNAL THROUGHOUT BUILDING | **YES** | **YES** | NO | NO | NO | NO |
| ACTIVATE SIGNAL FOR OFF-SITE MONITORING | **YES** | **YES** | **YES** | **YES** | **YES** | **YES** |
| MUTE AUTONOMOUS LOCAL SOUND SYSTEM | **YES** | **YES** | NO | NO | NO | NO |
| ACTIVATE HVAC UNIT OVER 2000 CFM SHUT DOWN / SHUT DOWN COMBINATION SMOKE FIRE DAMPER | **YES** | **YES** | NO | NO | NO | NO |

## MOUNTING OVER OBSTRUCTION DETAIL




NOTES:

1. THIS DETAIL APPLIES TO MOUNTING OF ANY MECHANICAL AND ELECTRICAL DEVICE WHICH CONTAINS AN OPERABLE PART THAT IS ADJUSTABLE BY THE OCCUPANT. THIS DOES NOT APPLY TO SENSORS OR CONTROLS THAT ARE ONLY ADJUSTABLE THROUGH THE BUILDING AUTOMATION SYSTEM (IE: TEMPERATURE AND HUMIDITY SENSORS).
2. FORWARD OR FRONT APPROACH FOR DEVICES MOUNTED ABOVE COUNTERS ASSUMES THAT DIRECTLY BELOW THE DEVICE, THE COUNTER HAS A 30"MIN. W/DTH x27" HIGH x19" MIN. DEEP CLEAR OPENING. CBC SECTIONS 11B-306 & 11B-308.

## WIRE SCHEDULE

| WIRE DESIGNATION | WIRE IN CONDUIT | WIRE IN CONDUIT UNDERGROUND/WET LOC. | UNDERGROUND/WET WIRE DESIGNATION |
|---|---|---|---|
| INIT. LOOP Z | 2 CONDUCTOR #16 FPL TWISTED/ SHIELDED WEST PENN #D991 | 2 CONDUCTOR #16 FPLP SHIELDED WEST PENN #AQ-294 | INIT. LOOP Z |
| SBUS B | 4 CONDUCTOR #18 TWISTED SHIELDED PAIR CABLE | 4 CONDUCTOR #18 TWISTED SHIELDED PAIR CABLE | SBUS B |
| VBUS C | 2 CONDUCTOR #18 TWISTED SHIELDED PAIR CABLE | 2 CONDUCTOR #18 TWISTED SHIELDED PAIR CABLE | VBUS C |
| SPEAKER CKT. S | 2 CONDUCTOR #14 THHN/THWN STRANDED | 2 CONDUCTOR #14 THHN/THWN STRANDED | SPEAKER CKT. S |
| VISUAL CKT. V | 2 CONDUCTOR #12 THHN/THWN STRANDED | 2 CONDUCTOR #12 THHN/THWN STRANDED | VISUAL CKT. V |
| POWER CKT. P | 2 CONDUCTOR #12 THHN/THWN STRANDED | 2 CONDUCTOR #12 THHN/THWN STRANDED | POWER CKT. P |

NOTE:
ALL WIRE MODEL NUMBERS ARE WEST PENN.
EQUIVALENT BY OTHER MANUFACTURER IS ACCEPTABLE.

## FIRE ALARM REQUIREMENTS

THE CONTRACTOR SHALL PROVIDE AND SUBMIT THE FIRE ALARM SHOP DRAWINGS TO THE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION OF THE FIRE ALARM SYSTEM. THE SUBMITTAL SHALL CONTAIN THE FOLLOWING:

A. SHOP DRAWINGS: COMPLETE 1/8" SCALE FLOOR PLANS SHOWING ALL DEVICES, COMPONENTS, CONDUIT AND WIRING INDICATING A COMPLETE AND OPERABLE SYSTEM AS DESIGNED AND SPECIFIED. REPRODUCED COPIES OF BID SET FIRE ALARM PLANS ARE NOT ACCEPTABLE AS SHOP DRAWINGS. SHOP DRAWINGS MUST ALSO INDICATE DEVICE MOUNTING HEIGHTS, ROOM NAMES AND NUMBERS AND THE LOCATION OF ALL FIRE RATED WALLS.
B. ELECTRICAL CONTRACTOR'S AND FIRE ALARM SYSTEM INSTALLER'S NAME, ADDRESS, PHONE NUMBER AND C-10 LICENSE NUMBER.
C. LIST OF SYSTEM COMPONENTS, EQUIPMENT AND DEVICES, INCLUDING MANUFACTURERS' MODEL NUMBER(S) AND CALIFORNIA STATE FIRE MARSHALL LISTING NUMBERS.
D. ORIGINAL COPIERS OF MANUFACTURERS' SPECIFICATION SHEETS FOR ALL EQUIPMENT AND DEVICES INDICATED.
E. VOLTAGE DROP CALCULATIONS -- INCLUDE THE FOLLOWING INFORMATION FOR THE WORST CASE:
   1. POINT-TO-POINT OR OHMS LAW CALCULATIONS.
   2. IDENTIFICATION OF ZONE USED IN CALCULATIONS.
   3. VOLTAGE DROP PERCENT (NOT TO EXCEED MANUFACTURERS' REQUIREMENTS).
      a. NOTE: IF VOLTAGE DROP EXCEEDS 10%, INDICATE MANUFACTURERS' LISTED OPERATING RANGE(S) OR EQUIPMENT AND DEVICES.
   4. NOTE CIRCUIT NUMBER FOR WORST CASE CALCULATION.
F. BATTERY TYPE(S), AMPS HOURS AND LOAD CALCULATIONS -- INCLUDE THE FOLLOWING INFORMATION:
   1. NORMAL OPERATION: 100% OF APPLICABLE DEVICES FOR 24 HOURS = CONTROL PANEL AMPS PLUS LIST OF AMPS PER DEVICE WHICH DRAW POWER FROM THE PANEL DURING STANDBY POWER -- I.E.:
      a. ZONE MODULES
      b. DETECTORS
      c. OTHER DEVICES (IDENTIFY)
   2. ALARM CONDITION: 100% OF APPLICABLE DEVICES FOR 15 MINUTES = CONTROL PANEL AMPS PLUS LIST OF AMPS PER DEVICE WHICH DRAW POWER FROM THE PANEL DURING STANDBY POWER -- I.E.:
      a. ZONE MODULES
      b. SIGNAL MODULES
      c. DETECTORS
      d. SIGNAL DEVICES
      e. ANNUNCIATOR
      f. OTHER DEVICES (IDENTIFY)
   3. NORMAL OPERATION + ALARM OPERATION
      a. TOTAL AMP HOURS REQUIRED.
      b. TOTAL AMP HOURS PROVIDED.

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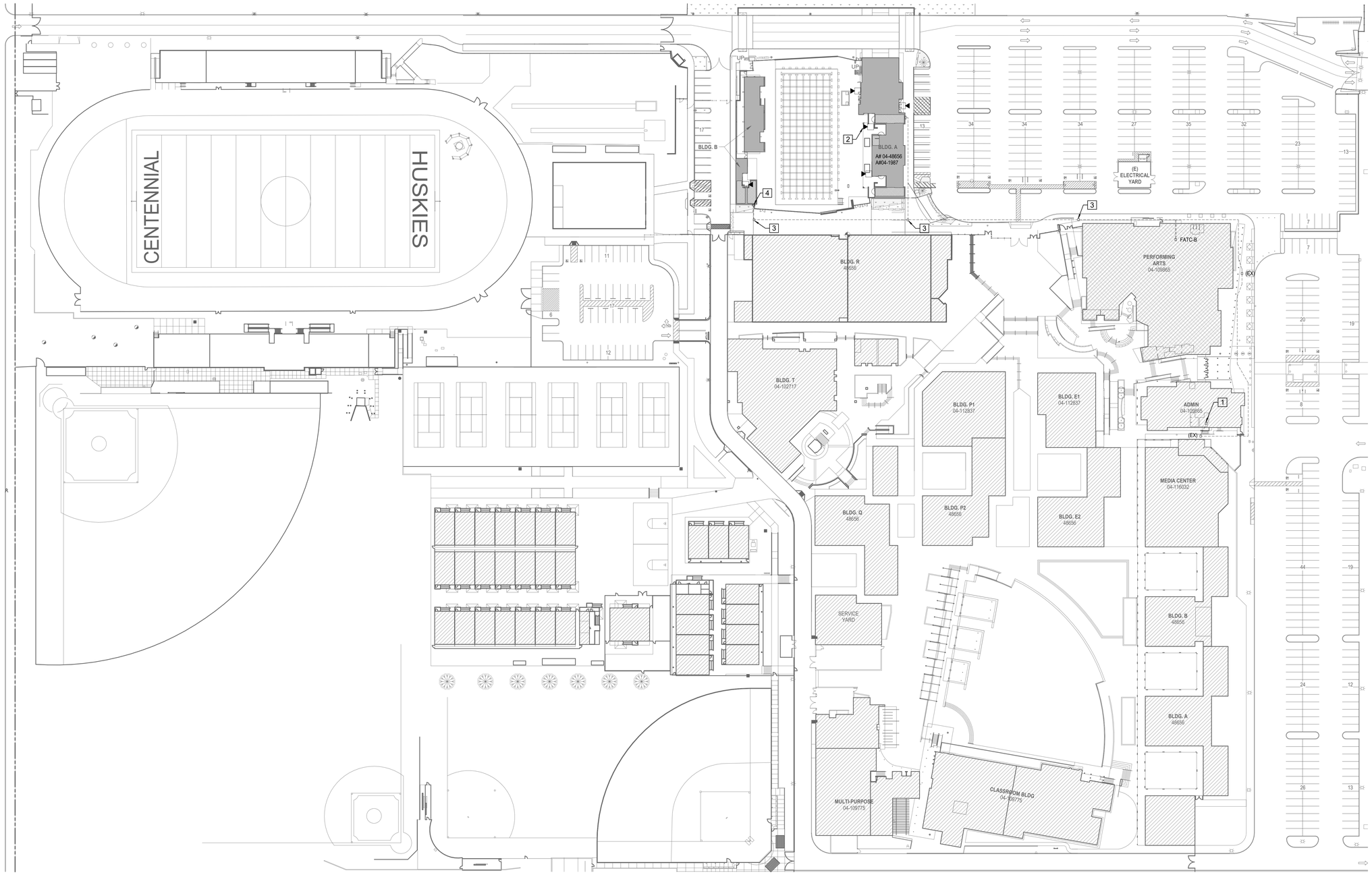
FA1.1 - FIRE ALARM SITE PLAN

0" 1"




## 1 OVERALL SITE PLAN

1" = 50'-0"

## GENERAL NOTES

1. RUN FIRE ALARM CABLES IN CONDUIT CONCEALED IN WALLS AND CEILING WHEN POSSIBLE. EXPOSED CONDUITS ARE NOT ACCEPTABLE.
2. SMOKE ALARMS AND SMOKE DETECTORS SHALL NOT BE INSTALLED WITHIN 36 IN. (910 MM) HORIZONTAL PATH FROM THE SUPPLY REGISTERS OF A FORCED AIR HEATING OR COOLING SYSTEM AND SHALL BE INSTALLED OUTSIDE OF THE DIRECT AIRFLOW FROM THOSE REGISTERS PER CBC 907.2.11.8.
3. DEMOLISH AND REMOVE ALL THE EXISTING FIRE ALARM DEVICES WHETHER SHOWN ON THE PLAN OR NOT WITHIN THE AREA OF WORK AND REPLACE WITH BLANK COVER PLATES IF NECESSARY. DISCONNECT AND REMOVE ALL THE EXISTING CABLES BACK TO CONTROL PANEL.
4. EXISTING FIRE ALARM SYSTEM SHALL BE OPERATIONAL UNTIL NEW SYSTEMS ARE FULLY FUNCTIONAL.
5. FOR ALL HEAT DETECTORS THAT ARE LOCATED ABOVE CEILING/ATTIC SPACES, CONTRACTOR SHALL PROVIDE STICKER AND LABEL "HD" AT THE REFLECTED CEILING DIRECTLY BELOW THE DEVICE TO INDICATE LOCATION.
6. ELECTRICAL CONTRACTOR SHALL FURNISH ACCESS PANELS TO AREAS THAT REQUIRE ACCESS FOR ATTIC HEAT DETECTOR, SERVICING, TROUBLESHOOTING, ETC.

## KEY NOTES

1. LOCATION OF EXISTING FIRE ALARM CONTROL PANEL (A#04-109865). FIELD VERIFY THE EXACT LOCATION.
2. PROVIDE WEATHERPROOF HORN DEVICES AS SHOWN.
3. PROVIDE CONCRETE UNDERGROUND PULL BOXES AS 11" X 17" X 18" DEEP ON A 6" DEEP GRAVEL BASE.
4. PROVIDE NEMA 3R WEATHERPROOF PULLBOX 18"x18"X6" FOR FIRE-ALARM.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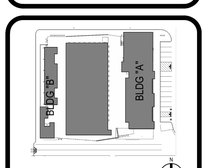
# CENTENNIAL HIGH SCHOOL AQUATICS CENTER

PROJECT ADDRESS:
1820 RIMPAU AVE
CORONA, CA 92881

100% CONSTRUCTION DOCUMENTS

DSA APPL NO.: ##-##### DSA FILE NO.: ###




KEY PLAN NORTH: PLAN

Consultant

REGISTERED PROFESSIONAL ENGINEER
RONALD C DELA CRUZ
No. E 23670
Exp. 09-30-2023
ELECTRICAL
STATE OF CALIFORNIA
FOR PLAN CHECK ONLY

Architect

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FIRE ALARM SITE PLAN

FA1.1

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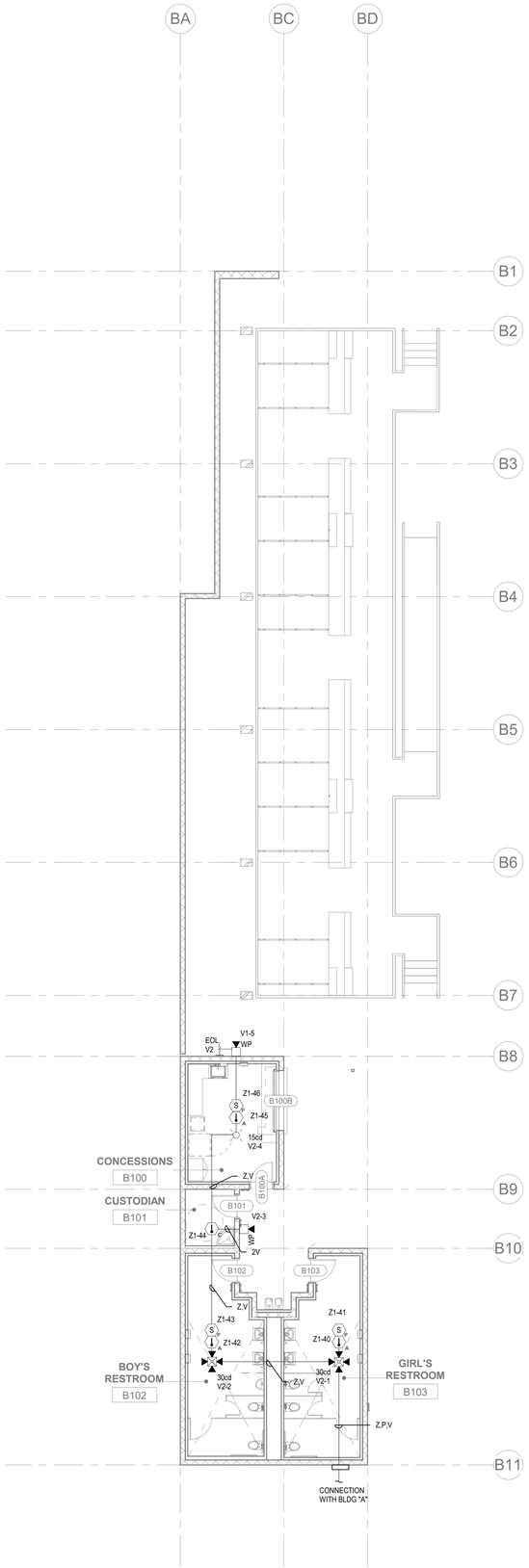
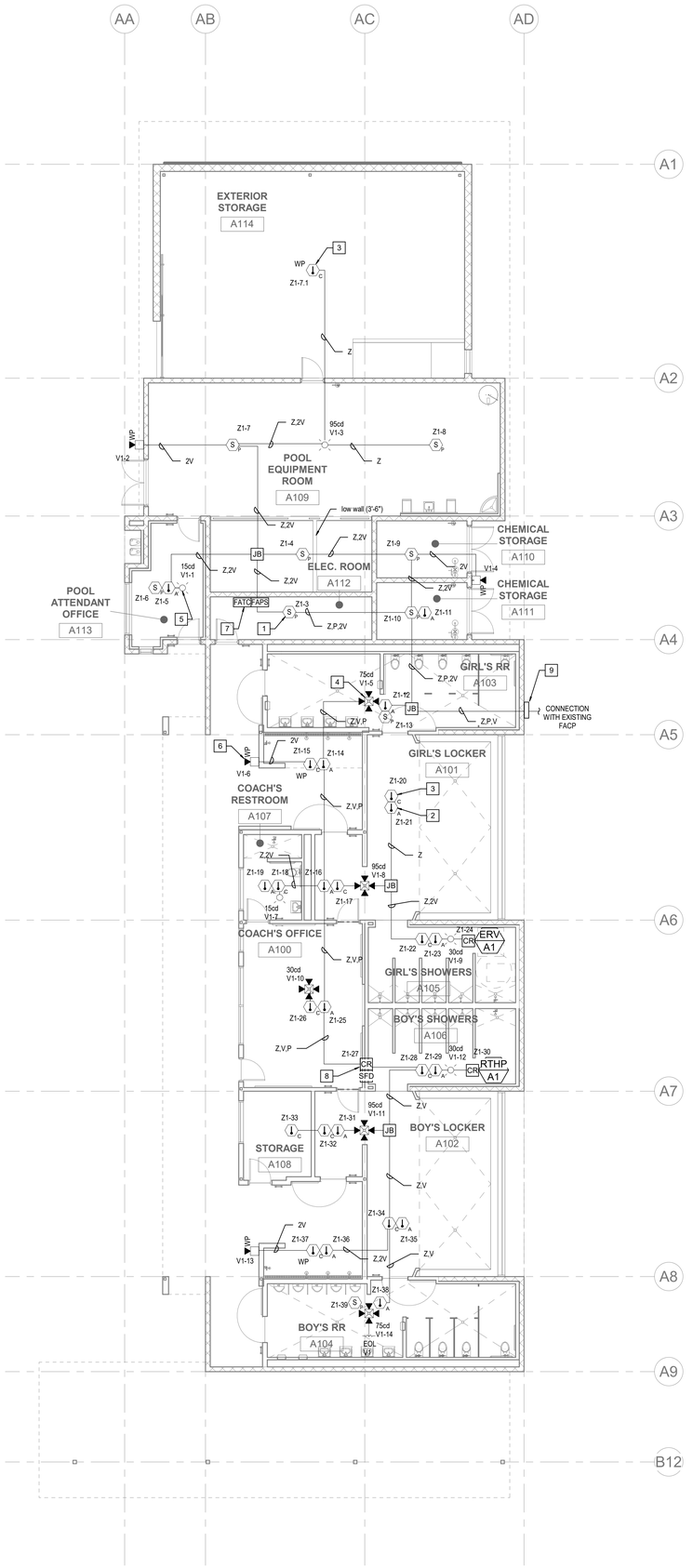
FA2.1 - OVERALL FIRE ALARM FLOOR PLANS - BLDG "A" & BLDG "B"

0" 1"




## 2 OVERALL FLOOR PLAN - BLDG "B"

1/8" = 1'-0"




## 1 OVERALL FLOOR PLAN - BLDG "A"

1/8" = 1'-0"

## GENERAL NOTES

1. RUN FIRE ALARM CABLES IN CONDUIT CONCEALED IN WALLS AND CEILING WHEN POSSIBLE. EXPOSED CONDUITS ARE NOT ACCEPTABLE.
2. SMOKE ALARMS AND SMOKE DETECTORS SHALL NOT BE INSTALLED WITHIN 36 IN. (910 MM) HORIZONTAL PATH FROM THE SUPPLY REGISTERS OF A FORCED AIR HEATING OR COOLING SYSTEM AND SHALL BE INSTALLED OUTSIDE OF THE DIRECT AIRFLOW FROM THOSE REGISTERS PER CBC 907.2.11.8.
3. DEMOLISH AND REMOVE ALL THE EXISTING FIRE ALARM DEVICES WHETHER SHOWN ON THE PLAN OR NOT WITHIN THE AREA OF WORK AND REPLACE WITH BLANK COVER PLATES IF NECESSARY. DISCONNECT AND REMOVE ALL THE EXISTING CABLES BACK TO CONTROL PANEL.
4. EXISTING FIRE ALARM SYSTEM SHALL BE OPERATIONAL UNTIL NEW SYSTEMS ARE FULLY FUNCTIONAL.
5. FOR ALL HEAT DETECTORS THAT ARE LOCATED ABOVE CEILING/ATTIC SPACES, CONTRACTOR SHALL PROVIDE STICKER AND LABEL "HD" AT THE REFLECTED CEILING DIRECTLY BELOW THE DEVICE TO INDICATE LOCATION.
6. ELECTRICAL CONTRACTOR SHALL FURNISH ACCESS PANELS TO AREAS THAT REQUIRE ACCESS FOR ATTIC HEAT DETECTOR, SERVICING, TROUBLESHOOTING, ETC.

## KEY NOTES

1. PROVIDE FIRE ALARM ADDRESSABLE SMOKE DETECTOR AS SHOWN (TYP).
2. PROVIDE FIRE ALARM ADDRESSABLE ATTIC HEAT DETECTOR AS SHOWN (TYP).
3. PROVIDE FIRE ALARM CEILING MOUNTED HEAT DETECTOR AND/OR WEATHERPROOF HEAT DETECTOR AS SHOWN (TYP).
4. PROVIDE FIRE ALARM CEILING MOUNTED HORN STROBE AS SHOWN (TYP).
5. PROVIDE FIRE ALARM CEILING MOUNTED STROBE DEVICE AS SHOWN (TYP).
6. PROVIDE FIRE ALARM WALL MOUNTED WEATHERPROOF HORN DEVICE AS SHOWN (TYP).
7. NEW FIRE ALARM POWER SUPPLY PANEL AND NEW FIRE ALARM TERMINAL CABINET AS SHOWN. FIELD VERIFY THE EXACT LOCATION.
8. PROVIDE FIRE ALARM CONTROL RELAY TO SHUT DOWN THE MECHANICAL UNIT AND/ OR COMBINATION SMOKE FIRE DAMPER AS SHOWN (TYP).
9. PROVIDE NEMA 3R WEATHERPROOF PULLBOX 18"x18"X6" FOR FIRE-ALARM.

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# CENTENNIAL HIGH SCHOOL AQUATICS CENTER

PROJECT ADDRESS:
1820 RIMPAU AVE.
CORONA, CA 92881

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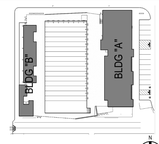
DSA APPL NO.: ##-#####

DSA FILE NO.: ###




KEY PLAN

NORTH: PLAN

Consultant

REGISTERED PROFESSIONAL ENGINEER
RONALD C DELA CRUZ
No. E 23570
Exp. 09-30-2023
ELECTRICAL
STATE OF CALIFORNIA

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**OVERALL FIRE ALARM FLOOR PLANS - BLDG "A" & BLDG "B"**

**FA2.1**

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FA6.1 - FIRE ALARM DETAILS

0" 1"

## BATTERY CAPACITY CALCULATION SHEET

FAPS
LOCATION: ELECTRICAL ROOM A112

| QUANTITY | Description | Unit Standby Current(A) | Total Standby Current(A) | Unit Alarm Current(A) | Total Alarm Current(A) |
|---|---|---|---|---|---|
| 1 | NAC TRIP | 0.075 | 0.075 | 0.175 | 0.175 |
| 3 | 15cd ceiling strobes | 0.000 | 0.000 | 0.071 | 0.213 |
| 2 | 30cd ceiling strobes | 0.000 | 0.000 | 0.096 | 0.192 |
| 1 | 95cd ceiling strobes | 0.000 | 0.000 | 0.176 | 0.176 |
| 6 | WP Horn | 0.000 | 0.000 | 0.060 | 0.360 |
| 3 | 30cd ceiling horn/strobe | 0.000 | 0.000 | 0.096 | 0.288 |
| 2 | 75cd ceiling horn/strobe | 0.000 | 0.000 | 0.153 | 0.306 |
| 2 | 95cd ceiling horn/strobe | 0.000 | 0.000 | 0.176 | 0.352 |
| | Sub Total | | 0.075 | | 2.062 |
| | A - Battery Backup - Standby (Hour) | 24 | | | |
| | B - Battery Backup (minutes) | 5 | | | |
| | C - Allowable Error (%) | 25 | | | |
| | D - Total Standby Backup (Amp-Hour) | 1.800 | | | |
| | E - Total Alarm Backup (Amp-Hour) | 0.172 | | | |
| | F - Allowable Error (C x (D + E)) | 0.493 | | | |
| | Total Amp-Hour Required (D + E + F) | 2.465 | | | |
| | Battery Submitted | 7 Amp-Hour | | | |

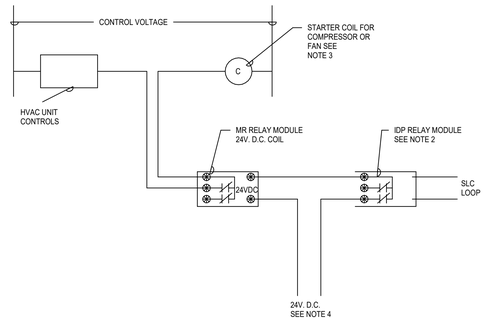
## STROBES WORST CASE VOLTAGE DROP

| PANEL NAME | CIRCUIT NUMBER | WP HORN 15cd 0.020 | CEILING STROBE 15cd 0.071 | 30cd 0.096 | 75cd 0.153 | 95cd 0.176 | CEILING HORN/STROBE 15cd 0.071 | 30cd 0.096 | 75cd 0.153 | 95cd 0.176 | TOTAL CURRENT (AMPS) | TOTAL DISTANCE (FEET) | TOTAL VOLTAGE DROP (%) | TOTAL DEVICES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FAPS | V1 | 4 | 2 | 2 | | 1 | | 1 | 2 | 2 | 1.344 | 430 | 7.97% | 14 |
| | V2 | 2 | 1 | | | | | 2 | | | 0.303 | 480 | 2.00% | 5 |
| | V3 | | | | | | | | | | 0.000 | | 0.00% | 0 |
| | V4 | | | | | | | | | | 0.000 | | 0.00% | 0 |
| TOTAL | | 6 | 3 | 2 | 0 | 1 | 0 | 3 | 2 | 2 | | | | |

## FACP BATTERY CALCULATION SHEET

FACP - NFS2-640 (EX)
LOCATION: BLDG A

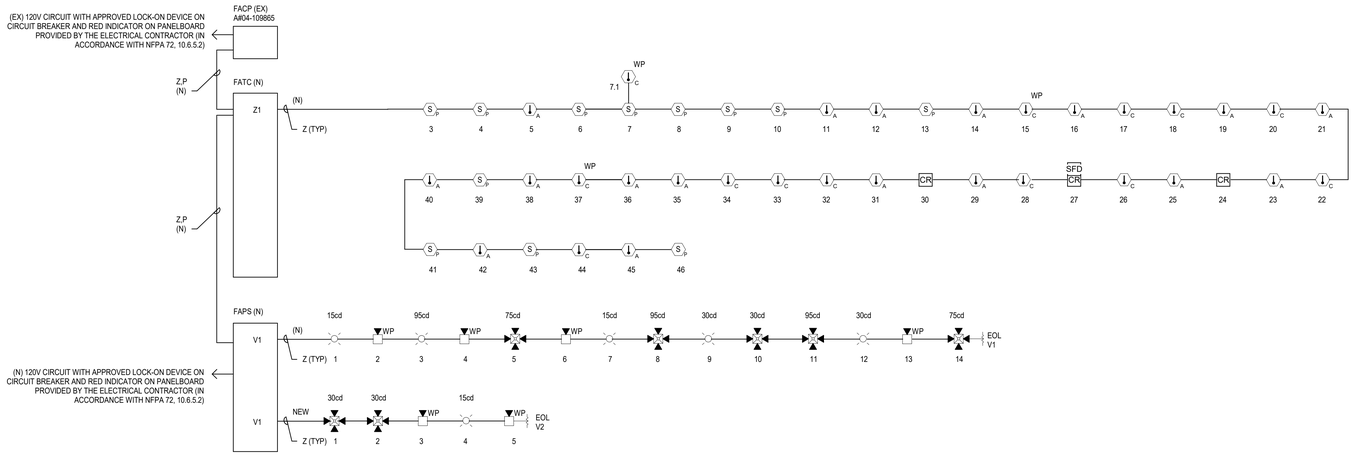
| QUANTITY | | UNIT STANDBY CURRENT(A) | TOTAL STANDBY CURRENT(A) | UNIT ALARM CURRENT(A) | TOTAL ALARM CURRENT(A) |
|---|---|---|---|---|---|
| EX | 1 CPU-640 | 0.23000 | 0.23000 | 0.23000 | 0.23000 |
| EX | 1 UDACT | 0.04000 | 0.04000 | 0.10000 | 0.10000 |
| EX | 1 LEM-320 | 0.10000 | 0.10000 | 0.10000 | 0.10000 |
| EX | 1 IZM-8RK | 0.04700 | 0.04700 | 0.04700 | 0.04700 |
| EX | 1 ICM-4RK | 0.00700 | 0.00700 | 0.07200 | 0.07200 |
| EX | 1 LCD-80 | 0.05000 | 0.05000 | 0.10000 | 0.10000 |
| EX | 9 NBG-12LX | 0.00375 | 0.03375 | 0.00375 | 0.03375 |
| EX | 124 FSP-851 | 0.00025 | 0.03100 | 0.00650 | 0.80600 |
| EX | 2 FST-851 | 0.00020 | 0.00040 | 0.00650 | 0.01300 |
| EX | 9 FMM-1 | 0.00030 | 0.00270 | 0.00510 | 0.04590 |
| EX | 3 FCM-1 | 0.00038 | 0.00113 | 0.00650 | 0.01950 |
| EX | 19 FRM-1 | 0.00026 | 0.00485 | 0.00650 | 0.12350 |
| EX | 4 HORN | 0.00000 | 0.00000 | 0.06200 | 0.24800 |
| EX | 16 RSS-24MCW 15cd | 0.00000 | 0.00000 | 0.04100 | 0.65600 |
| EX | 1 RSS-24MCW 75cd | 0.00000 | 0.00000 | 0.10900 | 0.10900 |
| EX | 2 AS-24MCW 15cd | 0.00000 | 0.00000 | 0.08000 | 0.16000 |
| EX | 2 AS-24MCW 75cd | 0.00030 | 0.00060 | 0.15000 | 0.30000 |
| EX | 1 AS-24MCW 110cd | 0.00000 | 0.00000 | 0.19400 | 0.19400 |
| N | 12 SMOKE DETECTOR | 0.00019 | 0.00228 | 0.00450 | 0.05400 |
| N | 3 WP HEAT DETECTOR | 0.00030 | 0.00090 | 0.00650 | 0.01950 |
| N | 3 MONITOR MODULE | 0.00038 | 0.00113 | 0.00500 | 0.01500 |
| N | 30 HEAT DETECTOR | 0.00030 | 0.00900 | 0.00650 | 0.19500 |
| N | 3 CONTROL RELAY | 0.00035 | 0.00105 | 0.00650 | 0.01950 |
| | SUB TOTAL | | 0.563 | | 3.661 |
| | STANDBY CURRENT x 24 Hrs. (AH) | | 13.507 AH | | |
| | ALARM CURRENT x 5 MINUTES (AH) | | 0.304 AH | | |
| | TOTAL (AH) | | 13.810 AH | | |
| | 20% DERATING | | 2.762 AH | | |
| | TOTAL DEMAND (AH) | | 16.573 AH | | |
| | BATTERY REQUIRED (EX) | | 24 AH | | |




NOTES:

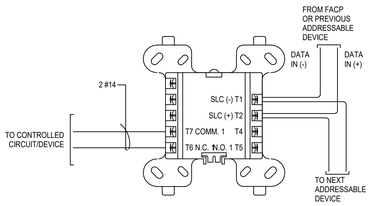
1. LOCATE NEW F.A. RELAY MODULES NEAR EXISTING HVAC UNIT CONTROL PANEL.
2. RELAY IS ACTIVATED BY THE AREA SMOKE/HEAT DETECTORS VIA SLC LOOP.
3. VERIFY NUMBER OF STARTER COILS AT EACH HVAC UNIT. SOME UNITS REQUIRE 2 OR MORE RELAYS FOR SHUTDOWN OF COMPRESSORS AND FANS.
4. PROVIDE 24V. D.C. SOURCE (LOW VOLTAGE TRANSFORMER) FROM POWER SUPPLY UNIT.
5. A LISTED RELAY TO THE FIRE ALARM SYSTEM SHALL BE LOCATED WITHIN 3 FEET OF THE CONTROLLED CIRCUIT PER 2016 NFPA 6.16.2.2.

**4** FIRE ALARM VOLTAGE DROP AND BATTERY CALCULATIONS
NOT TO SCALE

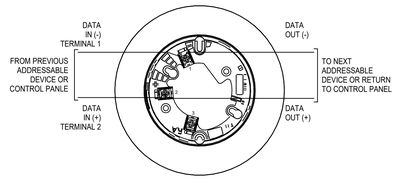



**5** FIRE ALARM PARTIAL RISER DIAGRAM
NOT TO SCALE

**3** HVAC UNIT SHUT-DOWN DETAIL
NOT TO SCALE




**2** RELAY MODULE DETAIL
NOT TO SCALE




**1** SMOKE/HEAT DETECTOR DETAIL
NOT TO SCALE

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# CENTENNIAL HIGH SCHOOL AQUATICS CENTER

PROJECT ADDRESS:
1820 RIMPAU AVE.
CORONA, CA 92881

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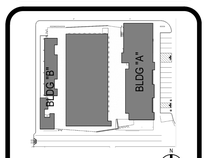


KEY PLAN
NORTH: PLAN

Consultant

REGISTERED PROFESSIONAL ENGINEER RONALD C DE LA CRUZ No. E 23570 Exp. 09-30-2023 ELECTRICAL STATE OF CALIFORNIA
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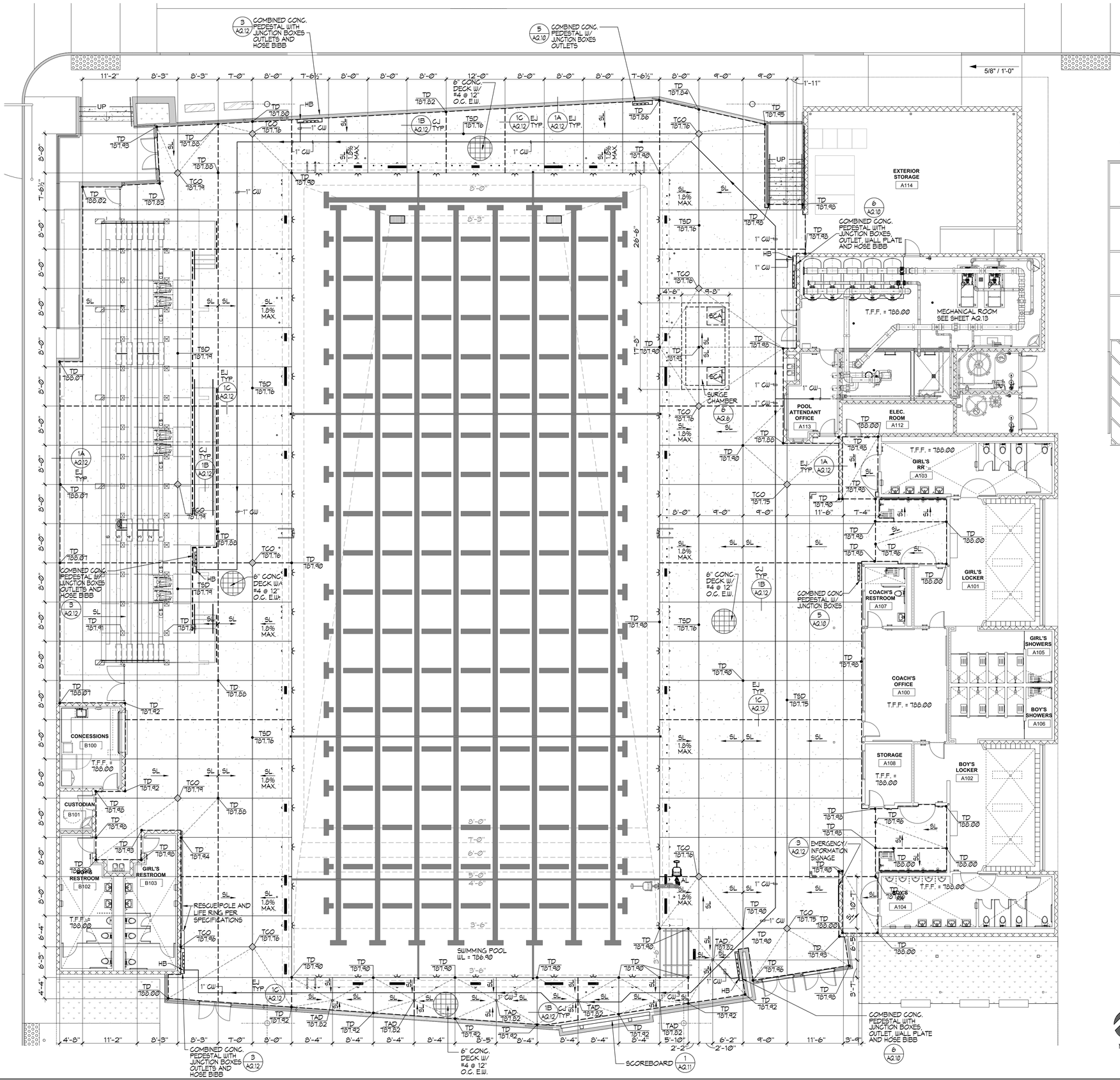
FIRE ALARM DETAILS

FA6.1




NORTH

## SWIMMING POOL DATA

| | | |
|---|---|---|
| SURFACE AREA | = | 12,380 SQ. FT. |
| PERIMETER | = | 490 FT. |
| DEPTH | = | 3'-6" TO 8'-3" |
| VOLUME | = | 689,776 GALLONS |
| 6 HR TURNOVER | = | 1,916 GPM |

## LEGEND

| | | |
|---|---|---|
| EJ | = | EXPANSION JOINT — 1A AQ.12, 1C AQ.12 |
| CJ | = | CONTROL JOINT — 1B AQ.12 |
| TSD | = | TOP OF SLOT DRAIN — 2 AQ.12 |
| TCO | = | TOP OF CLEAN-OUT — 2 AQ.12 |
| AL | = | ACCESSIBLE LIFT — 1 AQ.8 |
| HB | = | HOSE BIBB — 6 AQ.8, 5 AQ.10 |
| SCA | = | SURGE CHAMBER ACCESS COVER — 5 AQ.6 |
| CW | = | COLD WATER |
| SL | = | SLOPE DIRECTION |
| WL | = | WATERLEVEL |
| TFF | = | TOP OF FINISHED FLOOR |
| TD | = | TOP OF DECK |
| I.E. | = | INVERT ELEVATION |
| P.O.C. | = | POINT OF CONNECTION |
| SD | = | STORM DRAIN |
| TAD | = | TOP OF AREA DRAIN |

4 AQ.12 NOTES:

1. COORDINATE SIGNAGE PLACEMENT AND COLOR SCHEME WITH OWNER PRIOR TO INSTALLATION.
2. DECKS SHALL HAVE 1% MIN. SLOPE AND 1.8% MAX. SLOPE TO DRAINS.
3. ALL POOL DECKING SHALL BE NON-SLIP AND NON-ABRASIVE MEDIUM BROOM FINISH WITH NATURAL GRAY CONCRETE UNLESS OTHERWISE NOTED.
4. REFER TO ARCHITECTURAL PLANS FOR LOCATIONS AND QUANTITY OF REQUIRED EXITS, DRINKING FOUNTAINS, AND SANITARY FIXTURES.
5. THE POOL CANNOT BE WITHOUT AN APPROVED POOL ENCLOSURE AT ANY TIME, INCLUDING DURING CONSTRUCTION AND INSTALLATION OF THE NEW POOL ENCLOSURE.

1 SWIMMING POOL DECK PLAN 1/8"=1'-0"

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# CENTENNIAL HIGH SCHOOL AQUATICS CENTER

PROJECT ADDRESS:
1820 RIMPAU AVE.
CORONA, CA 92881

DESIGN DEVELOPMENT

DSA APPL NO.: ##/##### DSA FILE NO.: ###

KEY PLAN
BLDG "B" BLDG "A"
NORTH: PLAN

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Architect
LICENSED ARCHITECT GREGORY S. PERRY REN. 07/31/23 STATE OF CALIFORNIA
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CORONA-NORCO UNIFIED SCHOOL DISTRICT

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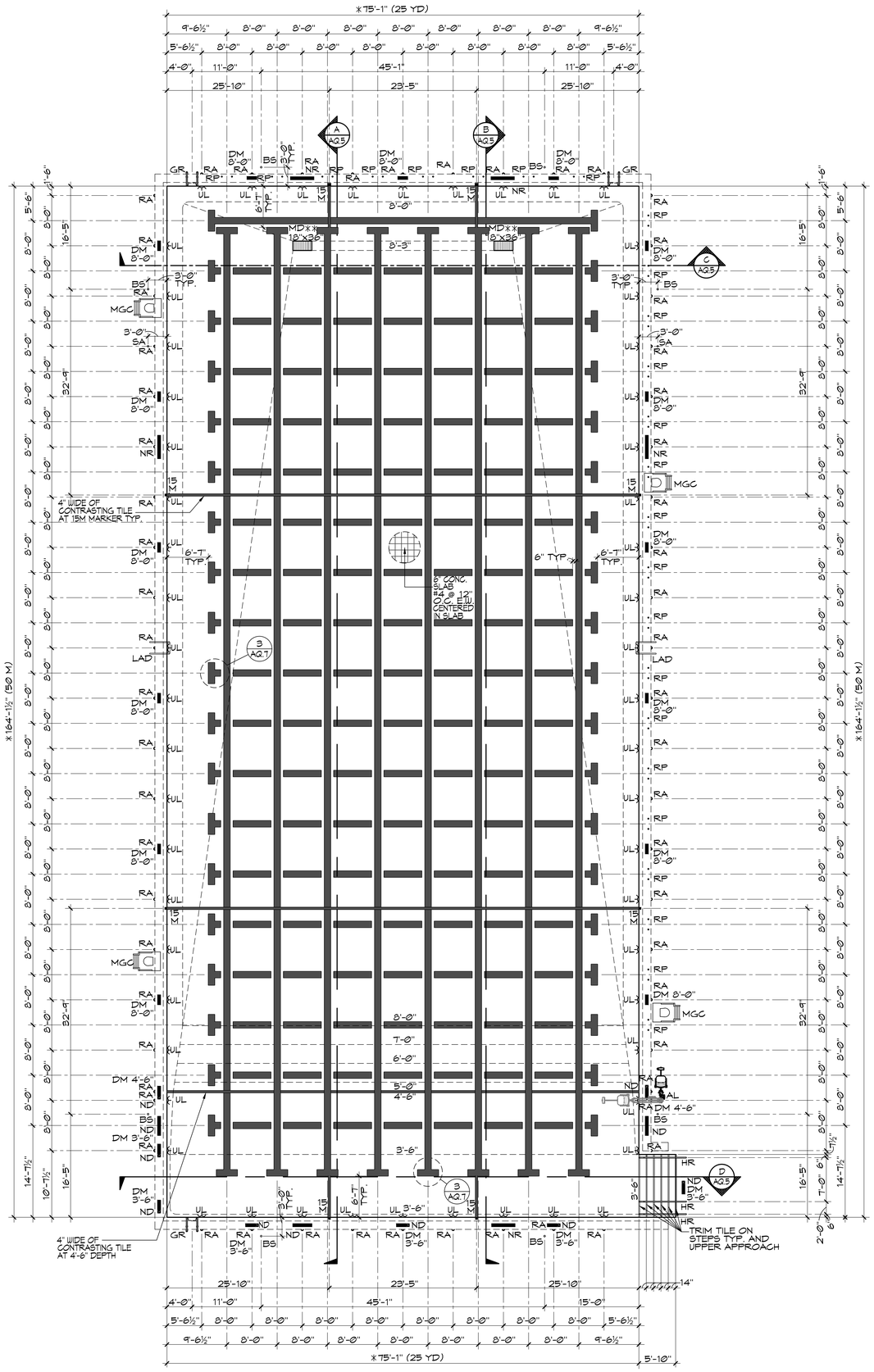
CONSTRUCTION DEVELOPMENT

## SWIMMING POOL DECK PLAN

AQ.0

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| 6 HR TURNOVER | = | 1,916 GPM |

## LEGEND

| | | | |
|---|---|---|---|
| ** MD | = | MAIN DRAIN | 2 AQ.9 |
| GR | = | GRABRAIL | 1 AQ.9 |
| DM | = | DEPTH MARKER | 4 AQ.7 |
| NR | = | 'NO RUNNING' | 5 AQ.7 |
| ND | = | 'NO DIVING' | 5,6 AQ.7 |
| RA | = | ROPE ANCHOR | 2 AQ.8 |
| RP | = | RACING PLATFORM | 9 AQ.7 |
| BS | = | BACKSTROKE STANCHION | 3 AQ.8 |
| 15M | = | 15 METER MARKER | 1 AQ.7 |
| UL | = | UNDERWATER LIGHT | 4 AQ.10 |
| MGC | = | MOVEABLE GUARD CHAIR | 5 AQ.8 |
| AL | = | ACCESSIBLE LIFT | 1 AQ.8 |
| SA | = | STANCHION ANCHOR | 3 AQ.8 |
| HR | = | HANDRAIL | 7 AQ.7 |
| LAD | = | LADDER | 4 AQ.8 |

## CERTIFICATION REQUIREMENTS

* THE CONTRACTOR SHALL RETAIN AN INDEPENDENT LICENSED SURVEYOR TO PROVIDE PROOF OF COMPLIANCE FOR REQUIRED POOL LENGTHS AS FOLLOWS: (RECOMMEND PATRELL ENG. GROUP (626) 335-4362)

SHORT COURSE-25YDS: (ALLOWS FOR TOUCH PADS AT ONE END) 75'-0 5/16" MIN.; 75'-1 3/16" MAX.

LONG COURSE-50M: (ALLOWS FOR TOUCH PADS AT BOTH ENDS) 164'-1⅛" MIN.; 164'-1⁷⁄₁₆" MAX.

TOLERANCE AGAINST LENGTH SHALL EXTEND IN A VERTICAL PLANE 0.3M (12") ABOVE AND 0.5M. (2'-1½") BELOW THE SURFACE OF THE WATER AT ALL POINTS OF BOTH END WALLS TYP. OF ALL COURSES.

THE INDEPENDENT LICENSED SURVEYOR SHALL FILL OUT, NOTARIZE AND FILE OFFICIAL CERTIFICATION FORM(S) WITH USA SWIMMING FOR CLASS A COMPETITION POOL.

** CONTRACTOR SHALL RETAIN A LICENSED ENGINEER TO CERTIFY THE MAIN DRAIN SYSTEMS AS V.G.B. COMPLIANT.

## POOL DESIGN CRITERIA

POOL DESIGN CODES

CALIFORNIA BUILDING CODE 2022
ACI 318-19

POOL DESIGN CRITERIA

PER GEOTECHNICAL ENGINEERING INVESTIGATION BY: LEIGHTON CONSULTING, INC. DATED SEPTEMBER 2, 2022, PROJECT NO. 13624.001.

DRAINED CONDITIONS:

| | | |
|---|---|---|
| ACTIVE PRESSURE: | 35 pcf | NATURAL ON-SITE SOILS W/ VERY LOW EXPANSION POTENTIAL |
| AT-REST PRESSURE: | 55 pcf | NATURAL ON-SITE SOILS W/ VERY LOW EXPANSION POTENTIAL |
| APPROX. SOIL UNIT WT.: | 120 pcf | |
| BEARING PRESSURE: | 2000 psf | |
| PASSIVE PRESSURE: | 280 pcf | (100 pcf FOR SCOREBOARD DEEP FOUNDATIONS PER TABLE 1806A.2) |
| COEFF. OF FRICTION: | 0.35 | |
| SEISMIC PRESSURE: | 27 PCF | (FOR RETAINING WALLS>6 ft.) |

SURCHARGE AT DECK

1) ASSUME 50% OF VERTICALLY APPLIED SURCHARGE TO ACT AS HORIZONTAL UNIFORM LOAD ON POOL WALL.
2) DL = WEIGHT OF 8" MAX. CONCRETE DECK SLAB ABOVE.
3) LL DESIGN CASE = POOL EMPTY DURING CONSTRUCTION OR FOR SHORT TERM MAINTENANCE. NO 100 psf LL FOR FULL CROWD OPERATING CONDITION WHEN EMPTY.

CONCRETE DESIGN

f'c = 4,000 psi MIN.
fy = 60 ksi

NOTE:

1. HYDROSTATIC PRESSURE RELIEF VALVES ARE PROVIDED IN POOL FLOOR SLABS TO ESTABLISH A "DRAINED CONDITION" (WHEN THE POOL IS EMPTY) IN THE PRESENCE OF A GROUND WATER TABLE, A PERCHED GROUND WATER CONDITION, OR POOR SITE DRAINAGE.

NORTH

1 SWIMMING POOL LAYOUT PLAN (SWIMMING) ⅛"=1'-0"

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CENTENNIAL HIGH SCHOOL
AQUATICS CENTER

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DESIGN DEVELOPMENT

DSA APPL NO.: ##-##### DSA FILE NO.: ##-##

BLDG "B" BLDG "A"

KEY PLAN NORTH: PLAN

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760.438.8400

Architect
LICENSED ARCHITECT GREGORY S. TERRELL REN. 07/31/25 STATE OF CALIFORNIA
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REVISIONS

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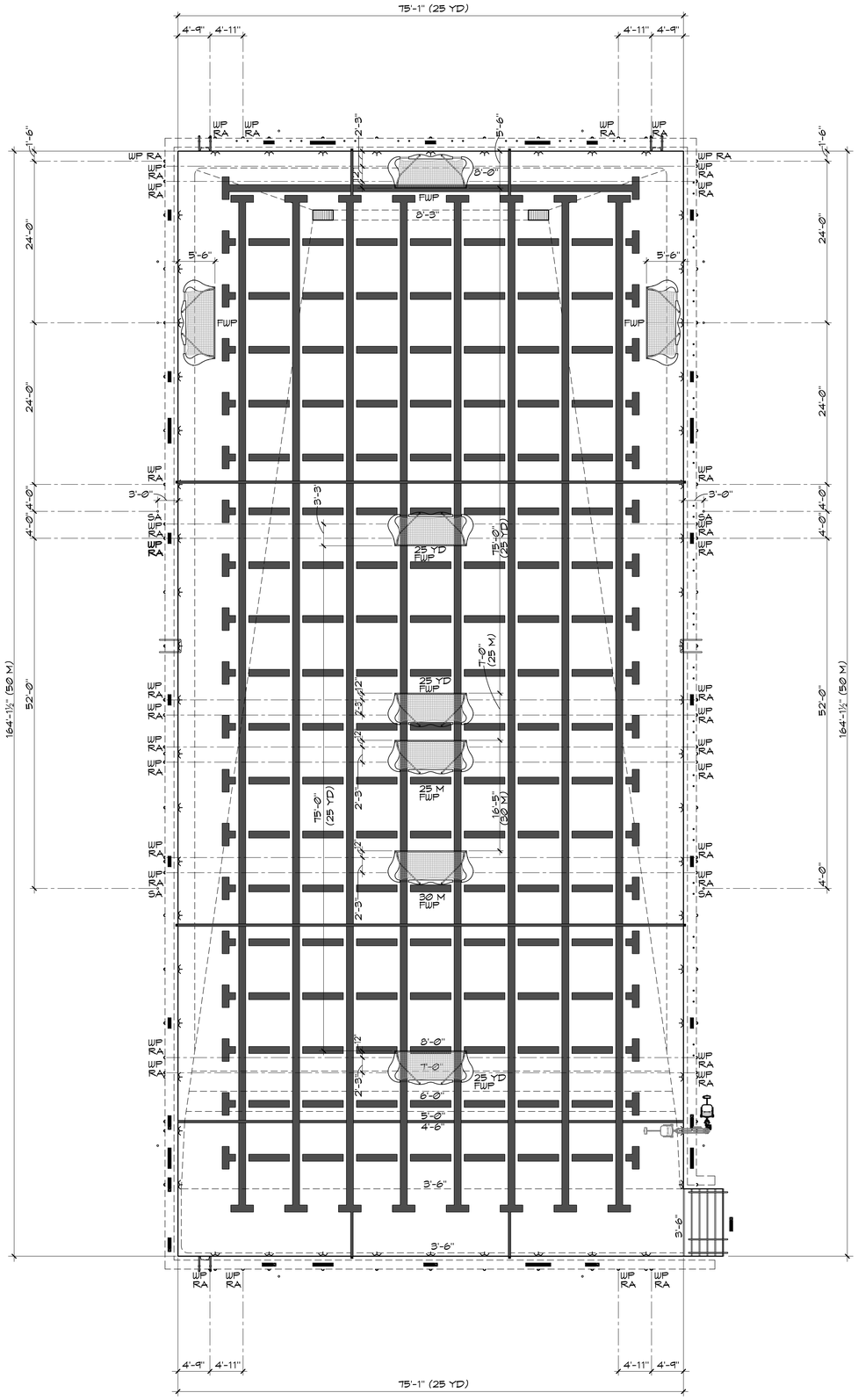
CONSTRUCTION DEVELOPMENT

SWIMMING POOL LAYOUT PLAN (SWIMMING)

AQ.1




## SWIMMING POOL DATA

| | | |
|---|---|---|
| SURFACE AREA | = | 12,380 SQ. FT. |
| PERIMETER | = | 490 FT. |
| DEPTH | = | 3'-6" TO 8'-3" |
| VOLUME | = | 689,776 GALLONS |
| 6 HR TURNOVER | = | 1,916 GPM |

## LEGEND

| | | | |
|---|---|---|---|
| SA | = | STANCHION ANCHOR | 3 AQ.8 |
| FWP | = | FLOATING WATERPOLO | 7 AQ.8 |
| RA | = | ROPE ANCHOR | 2 AQ.8 |

NORTH

1 SWIMMING POOL LAYOUT PLAN (WATERPOLO) 1/8"=1'-0"

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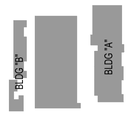
# CENTENNIAL HIGH SCHOOL AQUATICS CENTER

PROJECT ADDRESS:
1820 RIMPAU AVE.
CORONA, CA 92881

DESIGN DEVELOPMENT

DSA APPL NO.: ##/##### DSA FILE NO.: ##-##

KEY PLAN


NORTH: PLAN

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| DATE | PROJECT NUMBER |
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| 04-28-23 | 220306 |

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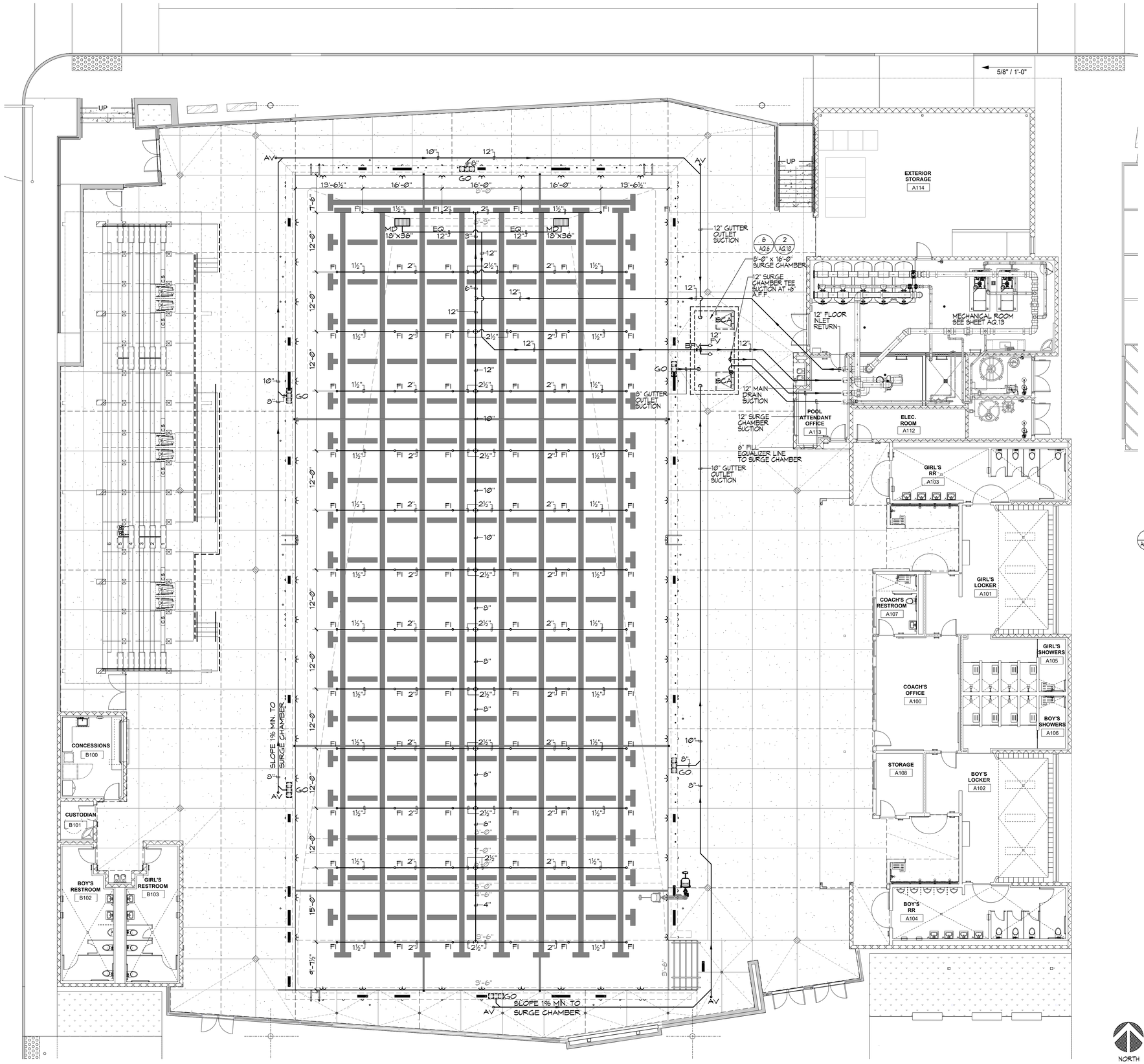
CONSTRUCTION DEVELOPMENT

# SWIMMING POOL LAYOUT PLAN (WATERPOLO)

AQ.2




## SWIMMING POOL DATA

| | | |
|---|---|---|
| SURFACE AREA | = | 12,380 SQ. FT. |
| PERIMETER | = | 490 FT. |
| DEPTH | = | 3'-6" TO 8'-3" |
| VOLUME | = | 689,776 GALLONS |
| 6 HR TURNOVER | = | 1,916 GPM |

## SWIMMING POOL SURGE DATA

| | | |
|---|---|---|
| REQUIRED SURGE CAPACITY | = | 12,380 GAL. |
| SURGE IN PERIMETER GUTTER | = | 7,142 GAL. |
| SURGE IN GUTTER PIPING | = | 1,539 GAL. |
| 8' x 16' SURGE IN SURGE CHAMBER | = | 4,793 GAL. |
| TOTAL SUPPLIED SURGE | = | 13,474 GAL. |

∴ 13,474 GAL. > 12,380 GAL. + 8% OK

## LEGEND

| | | | |
|---|---|---|---|
| MD | = | MAIN DRAIN | 2 AQ.9 |
| FI | = | FLOOR INLET | 4 AQ.9 |
| GO | = | GUTTER OUTLET | 6 AQ.9 |
| AV | = | AIR VENT | 3 AQ.9 |
| SCA | = | SURGE CHAMBER ACCESS | 5 AQ.6 |
| BFV | = | BUTTERFLY VALVE | 1 AQ.10 |
| FV | = | FLOAT VALVE | |
| A.F.F. | = | ABOVE FINISH FLOOR | |

3 AQ.10

NOTES:

1. PIPING ROUTES ARE SCHEMATIC IN NATURE AND SHOWN ON PLANS FOR CLARITY. CONTRACTOR SHALL ROUTE PIPING ACCORDINGLY TO MEET NOTED INVERT ELEVATIONS. REFER TO REFERENCED DETAIL FOR PIPE SPACING REQUIREMENTS.
2. ALL BELOW GRADE POOL PIPING SHALL BE SCHEDULE 40 PVC AND ALL ABOVE GRADE POOL PIPING SHALL BE SCHEDULE 80 PVC.
3. COORDINATE ALL PIPING WITH SITE AND BUILDING UTILITIES INCLUDING PIPING, CONDUITS / STRUCTURES AND THE LIKE. COORDINATE ROUTING OF PIPING THROUGH STRUCTURAL SLAB. ALL PIPING SHALL HAVE UNIFORM SLOPE IN ONE DIRECTION.
4. SURGE CHAMBER TEE SUCTION SHALL BE SET AT +6" A.F.F. MAINTAIN MAXIMUM SEPARATION BETWEEN SUCTION AND INFLUENT PIPING WITHIN THE SURGE CHAMBER.
5. EACH MAIN DRAIN SHALL BE EQUIPPED WITH HYDROSTATIC RELIEF VALVE PER RECOMMENDATIONS OF GEOTECHNICAL REPORT

1 SWIMMING POOL PIPING PLAN ⅛"=1'-0"

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CENTENNIAL HIGH SCHOOL AQUATICS CENTER

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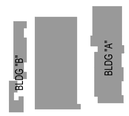
DESIGN DEVELOPMENT
DSA APPL NO.: ##-##### DSA FILE NO.: ##-##

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CONSTRUCTION DEVELOPMENT

SWIMMING POOL PIPING PLAN

AQ.3

A7.1 - DETAILS

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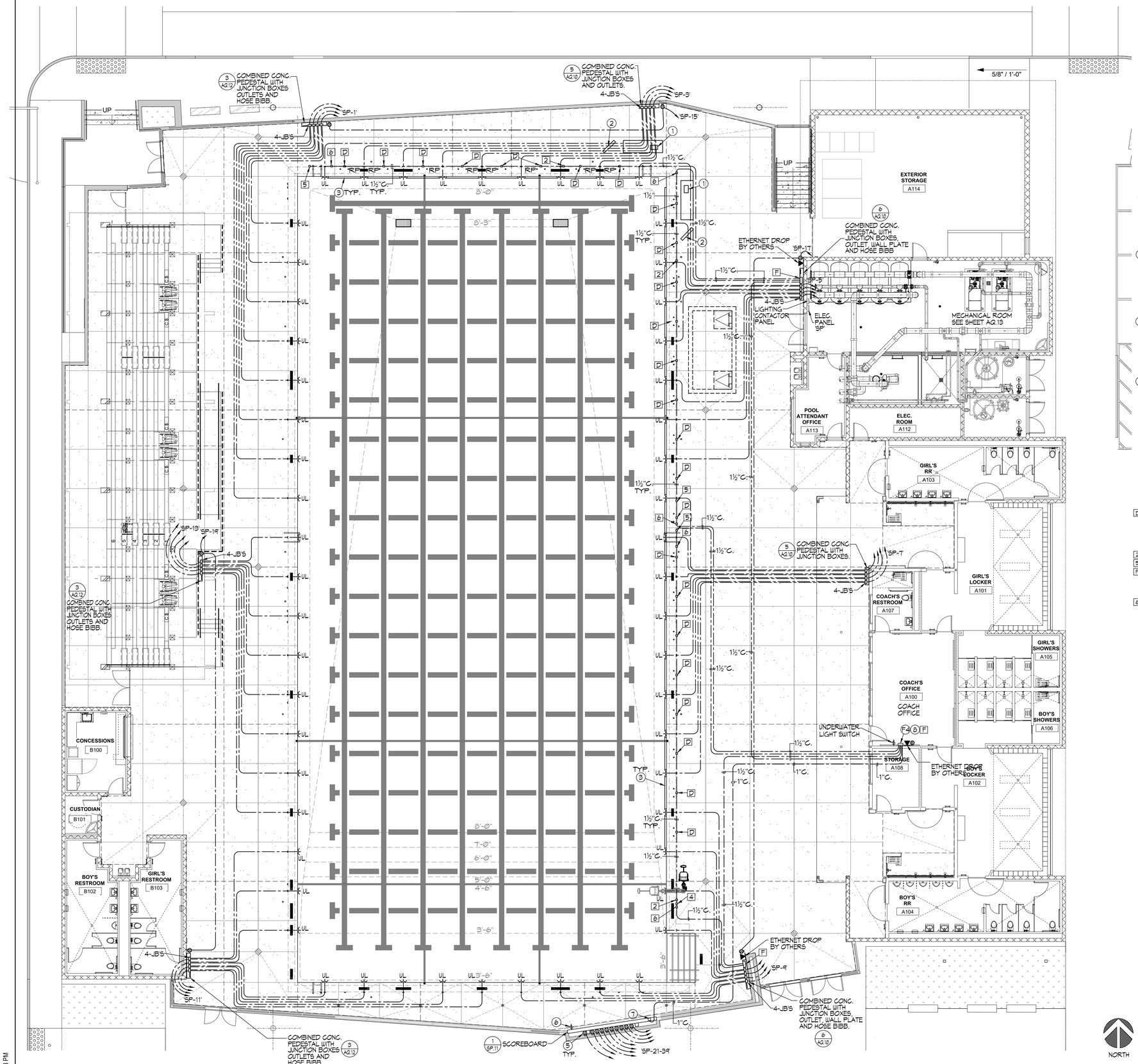


## LEGEND

| | | | |
|---|---|---|---|
| UL | = | UNDERWATER LIGHT | 4 AQ.10 |
| JB | = | JUNCTION BOX | 4,5 AQ.10 |
| RP | = | RACING PLATFORM | 9 AQ.7 |
| WP | = | WALL PLATE | 6 AQ.10 |

## KEY NOTES

| | | DESCRIPTION | QUANTITY | UNIT |
|---|---|---|---|---|
| | ▼ | ETHERNET DROP-BY OTHERS | 4 | COUNT |
| | F4 | WALL PLATE FIBER CONNECTION | 1 | COUNT |
| | 11 | WALL PLATE SCOREBOARD NODE | 4 | COUNT |
| | 12 | WALL PLATE TIMER NODE | 5 | COUNT |
| 7 AQ.10 | D | TIMING DECK NODE (4"x4"x6" PVC BOX) | 25 | COUNT |
| | 2 | START DECK NODE (4"x4"x6" PVC BOX) | 3 | COUNT |
| | 5 | SCOREBOARD DECK NODE (4"x4"x6" PVC BOX) | 3 | COUNT |
| | 6 | TITANIUM TIMER CONNECT DECK PLATE (4"x4"x6" PVC BOX) | 5 | COUNT |
| 6 AQ.10 | F | TIMING SYSTEM WALL INTERFACE WPI W/ 12"x12"x6" PVC BOX | 3 | COUNT |
| | 4 | CABLE HARNESS CONNECTION NODE | 1 | COUNT |

## TIMING SYSTEM NOTES/EQUIPMENT

NOTE: THE CONTRACTOR SHALL SUPPLY AND INSTALL DECK PLATE BOXES, WALL PLATE BOXES, WALL PLATE JUNCTION BOXES, CONDUIT, WIRING, SCOREBOARD AND ALL TIMING EQUIPMENT AS SHOWN FOR THE 'COLORADO' TIME SYSTEM OR EQUAL.

TIMING SYSTEM

| | QTY | MODEL | DESCRIPTION |
|---|---|---|---|
| 1 | 1 | GEN1-TMR | INTUITIVE SOFTWARE INTERFACE WITH MODERN WINDOWS USER INTERFACE AND TOUCHSCREEN FRIENDLY. FLEXIBLE USER INTERFACE OPTIONS WITH ETHERNET CONNECTIVITY TO THE TIMER. ADVANCED DIAGNOSTICS, INTELLIGENT BUS SYSTEM, ROBUST SAFEGUARDS. TIMER WILL CONTINUE TO RUN AND FINISH RACE WITHOUT USER INTERFACE. WET-PLUGGABLE TITANIUM CONNECTIONS. INTEGRATED 2.4 GHz WIRELESS TO SCOREBOARDS, FACILITY NETWORK CONNECTIVITY. |
| | 1 | R-600-302 | GEN1 LAPTOP |

START SYSTEM

| | QTY | MODEL | DESCRIPTION |
|---|---|---|---|
| 2 | 2 | SS | CHAMPION SERIES START SYSTEM WITH WIRED MICROPHONE, VOLUME CONTROL ON EACH MICROPHONE INPUT, EXTERNAL CONNECTIONS FOR ADDITIONAL STROBE LIGHTS, LED BATTERY INDICATION LIGHT, AC/DC POWER CAPABILITIES AND AN EXTERNAL 360° STROBE. TRIPOD OR TABLE TOP OPTIONS. |
| | 2 | START-FPM-2 | FLAG POLE MOUNTING KIT FOR STARTER |
| | 17 | SP-6/45 | 6 WATT INDIVIDUAL BLOCK SPEAKER |

TOUCHPADS

| | QTY | MODEL | DESCRIPTION |
|---|---|---|---|
| 3 | 18 | TP-AQG | AQUAGRIP GUTTERHUNG TOUCHPADS (90" x 22") US PATENT 5,702,799 |
| | 2 | CAD-TPAB | TOUCHPAD CADDY FOR GUTTERHUNG TOUCHPADS. HOLDS UP TO TEN TOUCHPADS. SOME ASSEMBLY REQUIRED. |
| | 18 | 4000-0040 | SPECIAL SIZE TOUCHPAD BRACKETS |

GEN1 TOUCHPAD SYSTEM

| QTY | MODEL | DESCRIPTION |
|---|---|---|
| 1 | TP-GEN1-10 | TEN-LANE TOUCHPAD SYSTEM FOR THE GEN 1 TIMING SYSTEM (SERIAL.) INCLUDES AN TEN-LANE CABLE HARNESS, ONE PUSHBUTTON PER LANE+ ONE SPARE, VACUUM PUMP AND TOUCHPAD METER. |

GEN1 CABLE

| QTY | MODEL | DESCRIPTION |
|---|---|---|
| 1 | R-015-101-8 | SCOREBOARD CABLE, 8 METER |
| 1 | R-015-115-8 | TIMER CABLE, 8 METER |
| 1 | R-015-106-8 | STARTER CABLE, 8 METER |
| 1 | R-015-115-15 | TIMER CABLE, 15 METER |

GEN1 IN DECK

| | QTY | MODEL | DESCRIPTION |
|---|---|---|---|
| D | 25 | TDPI-D | TITANIUM DOMED DECK PLATE-INTELLIGENT<br>TITANIUM DECK PLATES REQUIRE A 4" SQUARE OR 4.125" DIAMETER CIRCULAR OPENING AT A MINIMUM. WRITTEN VERIFICATION AND SIGN OFF REQUIRED FROM CUSTOMER.<br>NOTE: INCLUDES 5 YEAR WARRANTY.<br>CTS IS THE ONLY MANUFACTURER OF TITANIUM DECK PLATE. |
| 2 | 3 | TDPI-S2 | START DECK NODE |
| 5 | 3 | TDPI-SC5 | SCOREBOARD DECK NODE |
| F | 4 | R-1004-0549 | GEN1 WALL PLATE (15X15) |
| | 1 | TDPI-K1 | KIT-SCOREBOARD BUS HEAD & TAIL NODE INSTALLATION |
| | 1 | TDPI-K1 | KIT-TIMING BUS HEAD & TAIL NODE INSTALLATION |
| | 1 | WPI-F4 | WP-YDS FIBER 4 LEGACY CONNECT |
| 6 | 5 | TDPI-T1 | TIMER DECK NODE |

GEN1 CABLE

| QTY | MODEL | DESCRIPTION |
|---|---|---|
| 1200' | R-015-737 | TIMING BUS CABLE- 7 CONDUCTOR |
| 1200' | R-015-726 | SCOREBOARD BUS CABLE- 4 CONDUCTOR |

PACE CLOCK

| QTY | MODEL | DESCRIPTION |
|---|---|---|
| 4 | PC-PRO-R | PACE CLOCK - PRO/WATER POLO SHOT CLOCK |
| 1 | DC-1500 | SPECIFICATIONS:<br>• 4 DIGIT PACE CLOCK<br>• 10" RED DIGITS - VIEWABLE UP TO 400 FEET<br>• HIGH INTENSITY LED - INDOOR/OUTDOOR<br>• "SPLASH-PROOF" PROTECTIVE LENS<br>• INTERNAL RECHARGEABLE BATTERY<br>• INTERNAL HORN<br>• FEET AND HANDLE |
| | 1 PC-PRO AND 1 DC 1500 DECK CLOCKS PER OWNER APPROVAL. | FUNCTIONS:<br>• SIMPLE PACE CLOCK<br>• CUMULATIVE SPLIT DISPLAY<br>• LAP SPLIT DISPLAY<br>• LAP COUNTER<br>• LAP SPLIT DISPLAY WITH TURN SPEED<br>• RELAY EXCHANGES DISPLAY<br>• START REACTION DISPLAY<br>• HAND TURN SPEED<br>• BREAK OUT SPEED DISPLAY<br>• BREAK OUT SPEED DISPLAY WITH START REACTION<br>• TIME DISPLAY FOR REPETITIVE SETS<br>• SINGLE LANE TIMER<br>• MID-RACE TIMING DISPLAY<br>• WATERPOLO SHOT CLOCK<br>• WATERPOLO GAME CLOCK |

NOTE: MOST FUNCTIONS REQUIRE ADDITIONAL INPUT DEVICES, I.e. TOUCHPAD, RELAY JUDGING PLATFORM, START SYSTEM, PUSHBUTTON

CONTROLLER

| QTY | MODEL | DESCRIPTION |
|---|---|---|
| 1 | WTTC-2 | WIRELESS TABLE TOP CONTROLLER |
| 1 | CASE-WTTC | CASE FOR THE WIRELESS TABLE TOP CONTROLLER |
| 1 | WHC-1 | WIRELESS HANDHELD CONTROLLER |

ADAPTER

| QTY | MODEL | DESCRIPTION |
|---|---|---|
| 1 | WA-3 | WIRELESS ADAPTER, 2.4 GHz |

RELAY JUDGING PLATFORM

| QTY | MODEL | DESCRIPTION |
|---|---|---|
| 16 | RJPL-24x32 | GTS RELAY JUDGING PLATFORM 24'x32' W/ BUILT-IN LED LIGHT FOR START |
| 1 | CAD-RJPL-2 | CADDY- 24" WIDTH RELAY JUDGING PLATFORMS (HOLDS 16) |

FULL COLOR VIDEO DISPLAY

| | QTY | MODEL | DESCRIPTION |
|---|---|---|---|
| 4 | 1 | SCOREBOARD (1 AQ.11) | 11 LISTED PROVIDE LED MATRIX DISPLAY SCOREBOARD INCLUDING ALL POWER REQUIREMENTS, BONDING AND STRUCTURAL SUPPORTS. THE SCOREBOARD SHALL HAVE FULL COLOR AND VIDEO CAPABILITIES.<br>"75L" 2mm 25RH x 443W SMD, FA, OD 2PM DISPLAY<br>ACTIVE AREA: 1209"(H) x 211.7(W)<br>5 PROVIDE TEN (10) DEDICATED 20 AMP CIRCUIT TO BE TERMINATED INTO SCOREBOARD LOAD CENTER.<br>6 MASTER ON/OFF SCOREBOARD SWITCH WITH PILOT LIGHT W/ LOCKABLE ENCLOSURE.<br>7 SCOREBOARD DATA CONNECTION BOX. CONNECT TO TIMING/WALL BOX LOCATION W/ 1" PVC CONDUIT. |
| | 1 | ID PANEL | NON-ILLUMINATED FACILITY IDENTIFICATION PANEL WITH ARTWORK. |

1 SWIMMING POOL UNDERWATER LIGHT / TIMING SYSTEM PLAN — 1/8"=1'-0"

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DESIGN DEVELOPMENT — DSA APPL. NO.: ##-##### — DSA FILE NO.: ###

BLDG "B" BLDG "A"

KEY PLAN — NORTH: PLAN

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CONSTRUCTION DEVELOPMENT

**SWIMMING POOL UNDERWATER LIGHT / TIMING SYSTEM PLAN**

**AQ.4**

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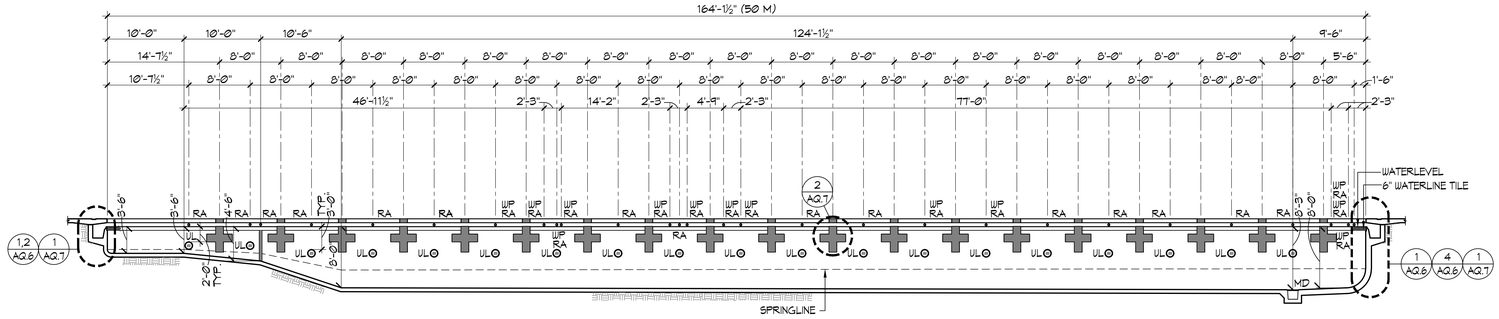
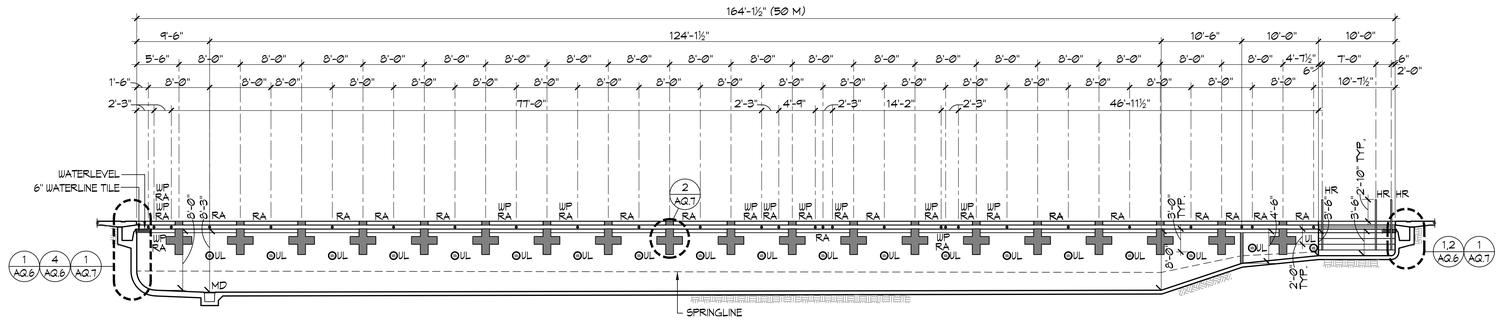


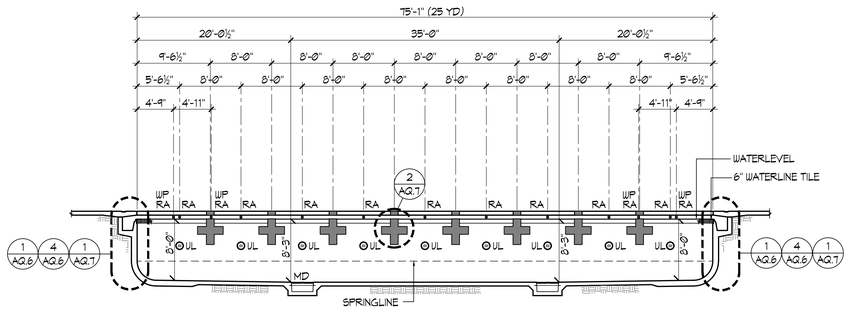

## A SWIMMING POOL SECTION

1/8"=1'-0"



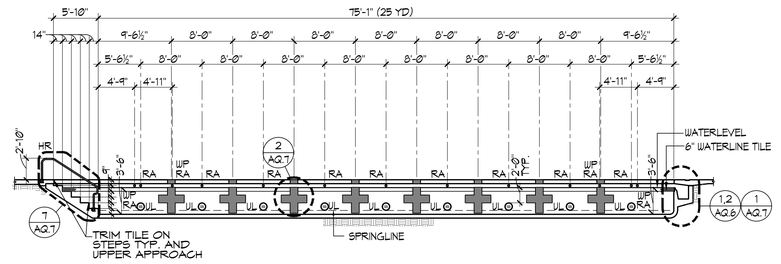

## B SWIMMING POOL SECTION

1/8"=1'-0"




## C SWIMMING POOL SECTION

1/8"=1'-0"




## D SWIMMING POOL SECTION

1/8"=1'-0"

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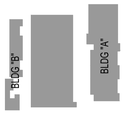


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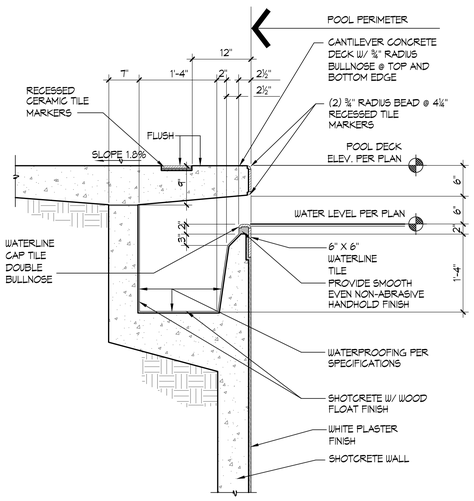
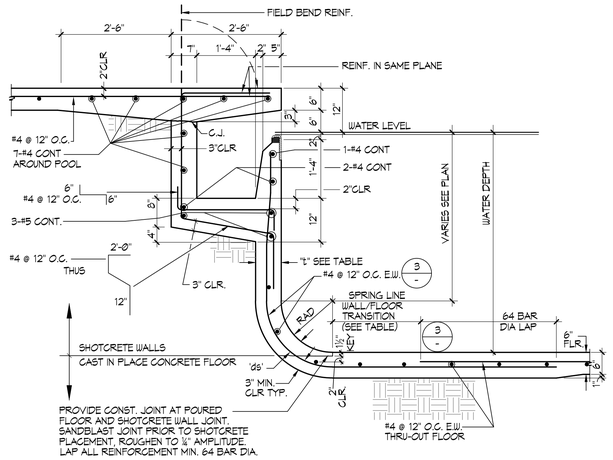
CONSTRUCTION DEVELOPMENT

**SWIMMING POOL SECTIONS**

**AQ.5**




## REINFORCEMENT TABLE

| WATER DEPTH | "t" | "ds" | RADIUS | VERTICAL REINF. | HORIZONTAL REINF. | TRANSITION TO FLOOR REINF. BEYOND END RADIUS |
|---|---|---|---|---|---|---|
| 3'-6" | 6" | 3" | 6" | #4 @ 12" O.C. | #4 @ 12" O.C. | 24" |
| 3'-7" TO 5'-0" | 7" | 4" | 6" TO 18" | #4 @ 12" O.C. | #4 @ 12" O.C. | 24" |
| 5'-1" TO 8'-3" | 10" | 7" | 18" TO 2'-6" | #4 @ 6" O.C. | #4 @ 8" O.C. | 24" |

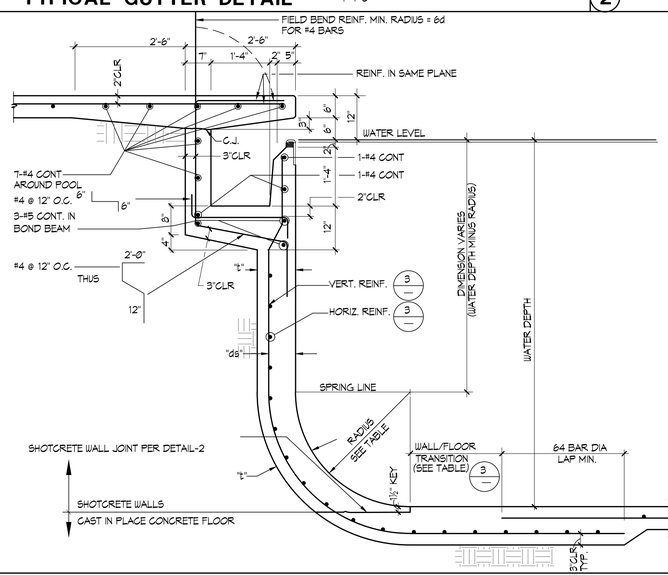
CONCRETE NOTES:

1. THE MINIMUM ULTIMATE COMPRESSIVE STRENGTH AT 28 DAYS WITH A 0.40 MIN. TO 0.50 MAX. WATER/CEMENT RATIO
   POOL = 4000 PSI
   SLAB-ON-GRADE = 4000 PSI
2. CONTINUOUS INSPECTION BY A DSA APPROVED INSPECTOR IS REQUIRED OF ALL CONCRETE PLACEMENT.
3. ALL CEMENT USED SHALL CONFORM TO A.S.T.M. C-150 TYPE II
4. FINE AND COARSE AGGREGATE SHALL CONFORM TO A.S.T.M. C-33. MAXIMUM SIZE OF AGGREGATE TO BE 1".
5. CONCRETE MIX DESIGNS SHALL BE BASED UPON ACI-318.
6. CONCRETE SHALL BE TESTED AND INSPECTED PER CBC 1705A.3 AND ACI-318.
7. REMOVAL OF FORMS SHALL COMPLY WITH ACI-318.
8. ALL REINFORCING SHALL BE ASTM A-615, GRADE 60, UNLESS OTHERWISE NOTED. LAPS SHALL BE 64 BAR DIA.

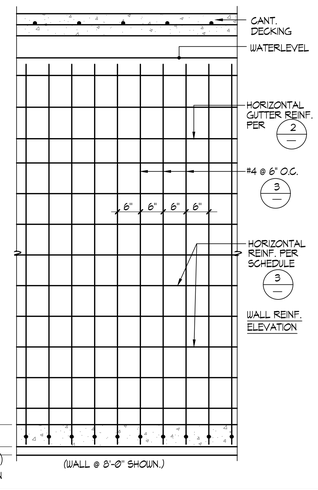
SHOTCRETE NOTES:

1. SHOTCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS. SHOTCRETE MATERIAL SHALL HAVE A WATER/CEMENT RATIO OF 0.40 MIN. TO 0.50 MAX. PER ACI 506R, PART 2, PRODUCTS, SECTION 2.5.3.3, WET-MIX PROCESS.
2. CONTINUOUS INSPECTION BY A D.S.A. APPROVED INSPECTOR IS REQUIRED OF ALL SHOTCRETE PLACEMENT.
3. ALL CEMENT USED SHALL CONFORM TO A.S.T.M. C-150 TYPE II
4. FINE AND COARSE AGGREGATE SHALL CONFORM TO A.S.T.M. C-33, AND SHALL CONFORM TO COARSE AGGREGATE GRADING NO. 2 PER ACI 506R TABLE 1.1.1. MAXIMUM SIZE OF AGGREGATE TO BE ½".
5. SHOTCRETE MIX DESIGNS SHALL BE PER ACI 318-19 SECTION 26.4
6. SHOTCRETE SHALL BE TESTED AND INSPECTED PER CBC 1705A.3 AND ACI 318-19 SECTIONS 26.12 AND 26.13.
7. ANCHOR BOLTS, ANCHORS, DOWELS, INSERTS, ETC. SHALL BE SECURELY TIED IN PLACE PRIOR TO PLACING OF SHOTCRETE.
8. ALL REINFORCEMENT WITHIN SHOTCRETE SHALL MAINTAIN THE GREATER OF 6d AND 2½" CLEAR SPACING BETWEEN BARS, NON-CONTACT SPLICES.
9. THE FILM OF LAITANCE WHICH FORMS ON THE SURFACE OF THE SHOTCRETE SHALL BE REMOVED WITHIN APPROXIMATELY TWO HOURS AFTER APPLICATION BY BRUSHING WITH A STIFF BROOM. IF THIS IS NOT REMOVED WITHIN TWO HOURS, IT SHALL BE REMOVED BY THOROUGH WIRE BRUSHING OR SAND BLASTING. CONSTRUCTION JOINTS OVER EIGHT HOURS OLD SHALL BE THOROUGHLY CLEANED WITH AIR AND WATER PRIOR TO RECEIVING SHOTCRETE.
10. ALL REINFORCING SHALL BE ASTM A-615, GRADE 60, UNLESS OTHERWISE NOTED. LAPS SHALL BE 64 BAR DIA. REINFORCING SHALL CONFORM TO CBC 1908A AND ACI 318, ALONG WITH THE PROVISIONS OF ACI 506R AND ACI 506.2.

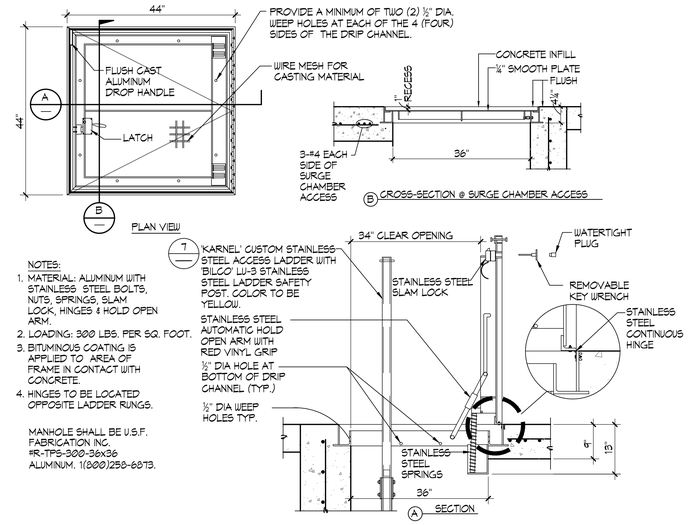
## 1 TYPICAL GUTTER DETAIL 1"=1'-0"




## 2 POOL WALL 3'-6" TO 5'-0" ¾"=1'-0"




## 3 REINFORCEMENT TABLE




NOTES:

1. MATERIAL: ALUMINUM WITH STAINLESS STEEL BOLTS, NUTS, SPRINGS, SLAM LOCK, HINGES & HOLD OPEN ARM.
2. LOADING: 300 LBS. PER SQ. FOOT.
3. BITUMINOUS COATING IS APPLIED TO AREA OF FRAME IN CONTACT WITH CONCRETE.
4. HINGES TO BE LOCATED OPPOSITE LADDER RUNGS.

MANHOLE SHALL BE U.S.F. FABRICATION INC. #R-1TPS-3200-36x36 ALUMINUM, 1(800)258-6873.

## 4 POOL WALL 5'-1" TO 8'-3" ¾"=1'-0"







## 5 SURGE CHAMBER ACCESS COVER




## 6 POOL WALL 5'-1" TO 8'-3" ¾"=1'-0"

## 7 SURGE CHAMBER ACCESS LADDER ½" = 1'-0"

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**CENTENNIAL HIGH SCHOOL AQUATICS CENTER**

PROJECT ADDRESS:
1820 RIMPAU AVE.
CORONA, CA 92881

DESIGN DEVELOPMENT

DSA APPL NO.: ##-#####

DSA FILE NO.: ##-##




KEY PLAN

NORTH: PLAN

Consultant

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AquaticDesignGroup.com
760.438.8400

Architect

GREGORY S. FAIELLA
LICENSED ARCHITECT
REN. 07/31/23
STATE OF CALIFORNIA

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CORONA-NORCO UNIFIED SCHOOL DISTRICT

| DATE | PROJECT NUMBER |
|---|---|
| 04-28-23 | 220306 |

REVISIONS

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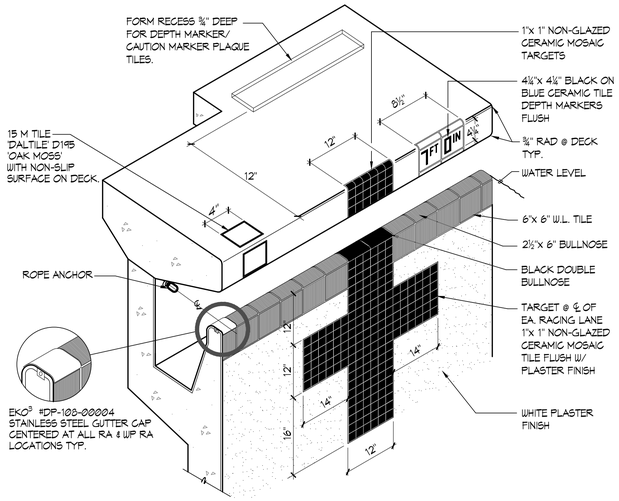
|---|---|---|
| | | |

CONSTRUCTION DEVELOPMENT

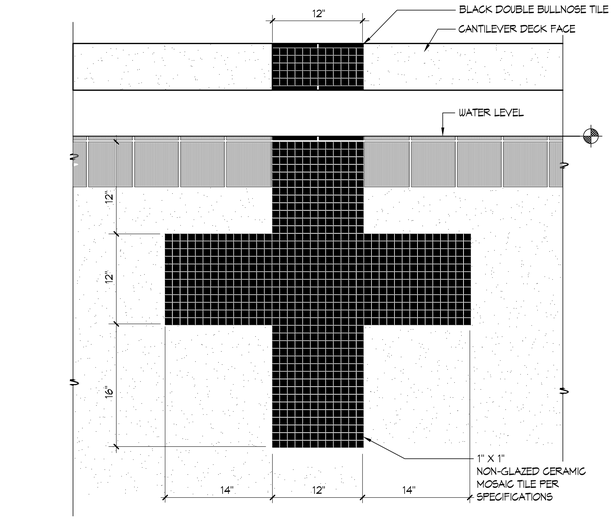
DETAILS

AQ.6



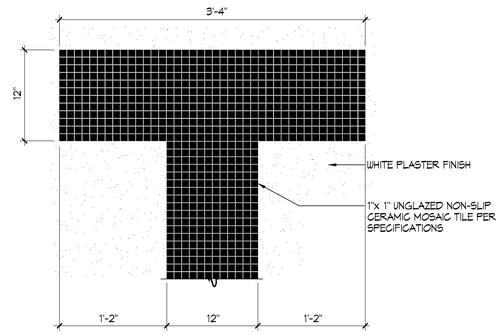

## 1 DEEP GUTTER PERSPECTIVE

NO SCALE




## 2 END WALL TARGET

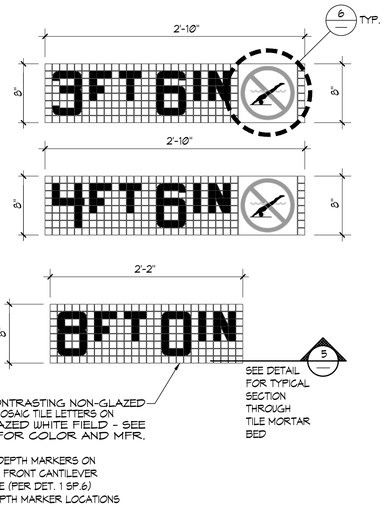
1½" = 1'-0"




**PLAN VIEW**

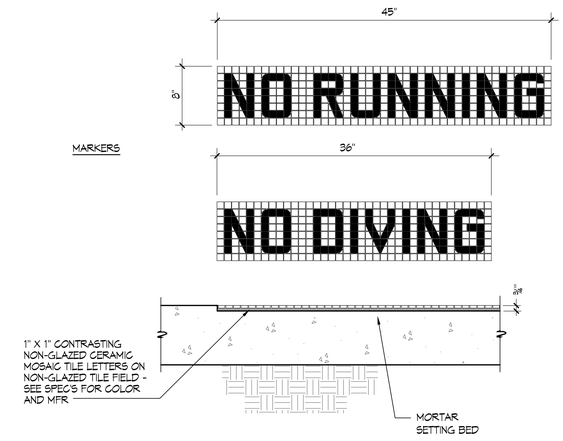
## 3 RACING LANE LINE

1½"=1'-0"




## 4 DEPTH MARKERS

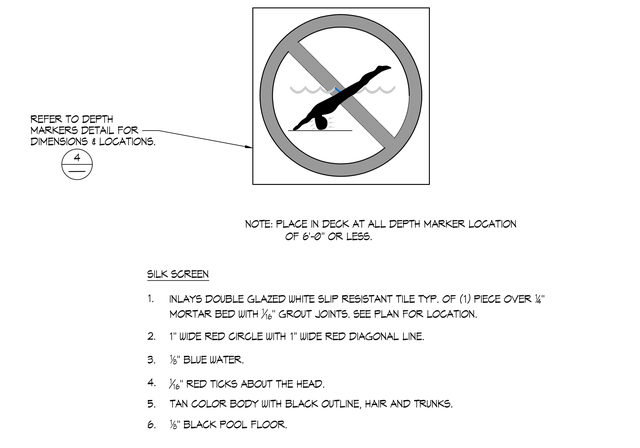
1½" = 1'-0"




SECTION THROUGH TILE

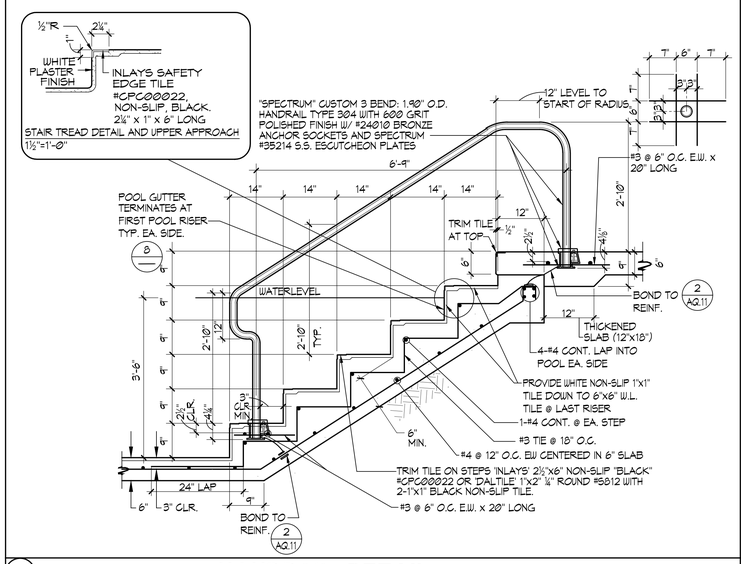
## 5 "NO RUNNING" / "NO DIVING" MARKERS

1½" = 1'-0"



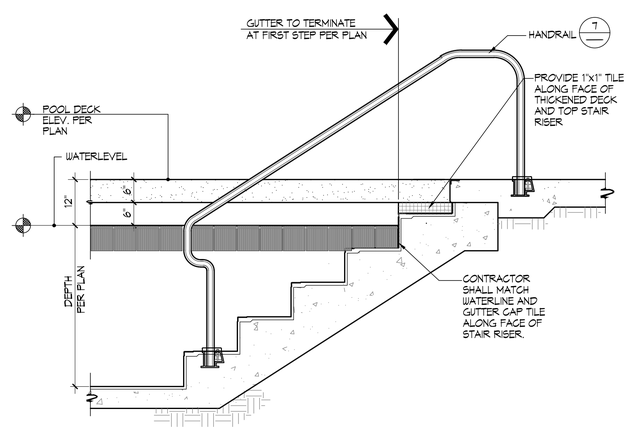

## 6 INTERNATIONAL "NO DIVING" MARKER

3"=1'-0"



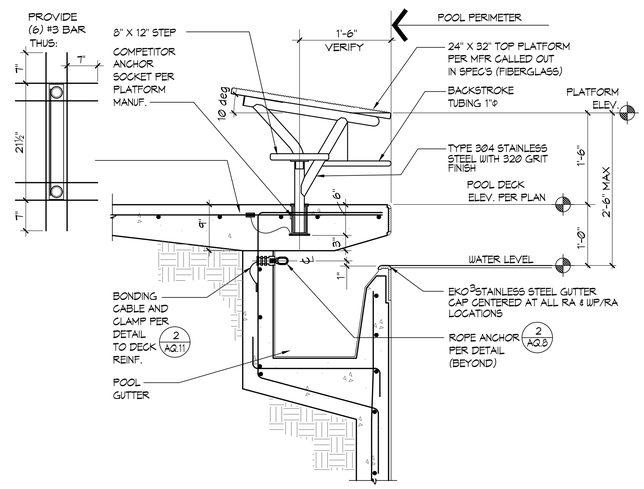

## 7 HANDRAIL DETAIL

¾"=1'-0"




## 8 GUTTER EDGE AT STAIRS

¾"=1'-0"




## 9 RACING PLATFORM

1"=1'-0"

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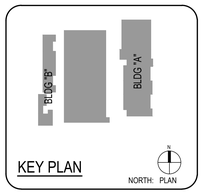
# CENTENNIAL HIGH SCHOOL AQUATICS CENTER

PROJECT ADDRESS:
1820 RIMPAU AVE.
CORONA, CA 92881

DESIGN DEVELOPMENT
DSA APPL NO.: ##-###### DSA FILE NO.: ##-##

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LICENSED ARCHITECT GREGORY S. ZISETTE
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STATE OF CALIFORNIA
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CORONA-NORCO UNIFIED SCHOOL DISTRICT

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CONSTRUCTION DEVELOPMENT

DETAILS

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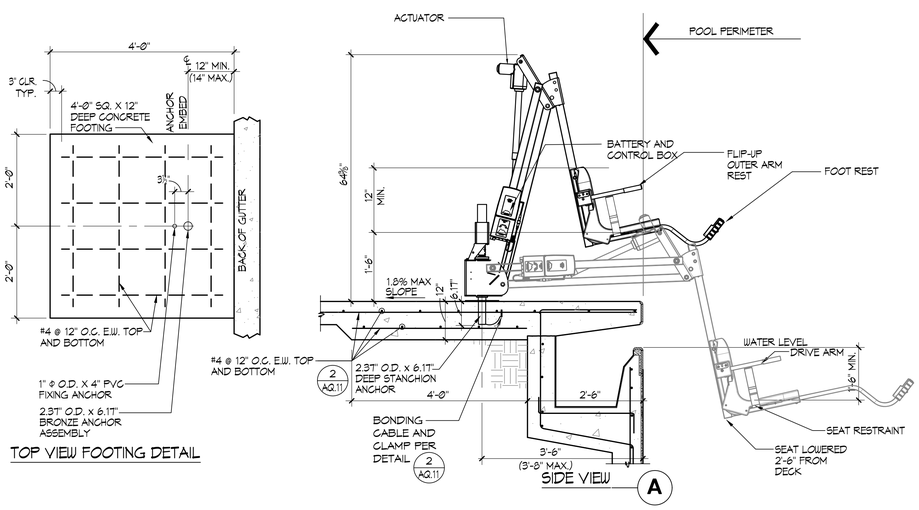
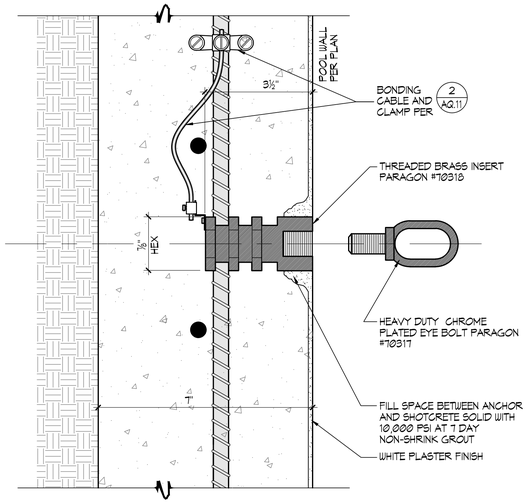



## NOTES:

1. 'AQUA CREEK' MIGHTY 400 F-MTY-400 (350 lbs. MIN. LIVE LOAD AND 400 lbs. MAX. LIFTING CAPACITY)
2. GUSSET COVER PLATE TO BE ATTACHED REQUIRING A TOOL FOR REMOVAL.
3. CONTRACTOR SHALL PROVIDE COVER FOR LIFT 'AQUA CREEK'; EXTRA BATTERY PACK 'AQUA CREEK' #F-004AB; AND TRANSPORTER CART 'AQUA CREEK' #F-MTTC.
4. UTILIZE OUTLET IN COACH'S OFFICE FOR DISABLED LIFT BATTERY CHARGE STATION.
5. POOL LIFT SHALL BE LOCATED WHERE THE WATER LEVEL IS AT LEAST 36" AND DOES NOT EXCEED 48" DEEP , UNLESS ENTIRE POOL IS GREATER THAT 48" DEEP. (CBC SECTION 11B-1009.2.1)
6. ON THE RAISED POSITION, THE CENTERLINE OF THE SEAT SHALL BE LOCATED OVER THE DECK AND 16" MINIMUM FROM THE EDGE OF THE POOL. THE DECK SURFACE BETWEEN THE CENTERLINE OF THE SEAT AND THE POOL EDGE SHALL HAVE A 2% MAX. SLOPE. (CBC SECTION 11B-1009.2.2)
7. CLEAR DECK SPACE SHALL BE PROVIDED ON SIDE OF SEAT OPPOSITE THE WATER PARALLEL TO THE WATER 36" WIDE x 48" MINIMUM FROM A LINE LOCATED 12" BEHIND THE REAR EDGE OF THE SEAT. THE CLEAR SPACE SHALL HAVE A 2% MAX. SLOPE. (CBC SECTION 11B-1009.2.3)
8. THE HEIGHT OF THE LIFT SEAT SHALL BE DESIGNED TO ALLOW A STOP AT 17" MIN. TO 19" MAX. MEASURED FROM THE DECK TO THE TOP OF THE SEAT SURFACE WHEN IN THE RAISED POSITION. (CBC SECTION 11B-1009.2.4)
9. THE SEAT SHALL BE RIGID AND 17" MIN. TO 19" MAX. WIDE. THE LIFT SEAT SHALL HAVE A BACK SUPPORT 12" MIN. TALL. (CBC SECTION 11B-1009.2.4)
10. FOOTRESTS SHALL BE PROVIDED, EXCEPT FOR SPA LIFTS, AND SHALL MOVE WITH THE SEAT. LIFT SHALL HAVE TWO ARMRESTS. THE ARMREST POSITIONED OPPOSITE THE WATER SHALL BE REMOVABLE OR SHALL FOLD CLEAR OF THE SEAT WHEN THE SEAT IS IN THE RAISED POSITION. (CBC SECTION 11B-1009.2.6)
11. THE LIFT SHALL BE CAPABLE OF UNASSISTED OPERATION FROM BOTH THE DECK AND WATER LEVELS. CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL BE UNOBSTRUCTED WHEN THE LIFT IS IN USE (CBC SECTION 11B-309.4). LIFT MUST BE STABLE AND NOT PERMIT UNINTENDED MOVEMENT WHEN A PERSON IS GETTING INTO OR OUT OF THE SEAT. (CBC SECTION 11B-1009.2.7)
12. THE LIFT SHALL BE DESIGNED SO THAT THE SEAT WILL SUBMERGE TO A WATER DEPTH OF 18" MIN. BELOW THE STATIONARY WATER LEVEL. (CBC SECTION 11B-1009.2.8)
13. LIFT SEAT MUST HAVE AN OCCUPANT RESTRAINT FOR USE BY THE OCCUPANT OF THE SEAT AND THE RESTRAINT MUST MEET THE STANDARDS FOR OPERABLE CONTROLS IN COMPLIANCE WITH CBC SECTION 11B-1009.2.4 AND SECTION 11B-309.

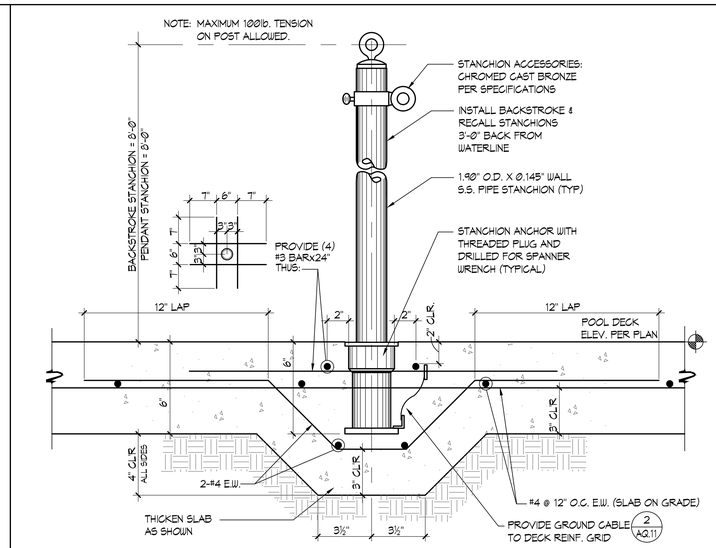
## 1 ACCESSIBLE LIFT

¾"=1'-Ø"



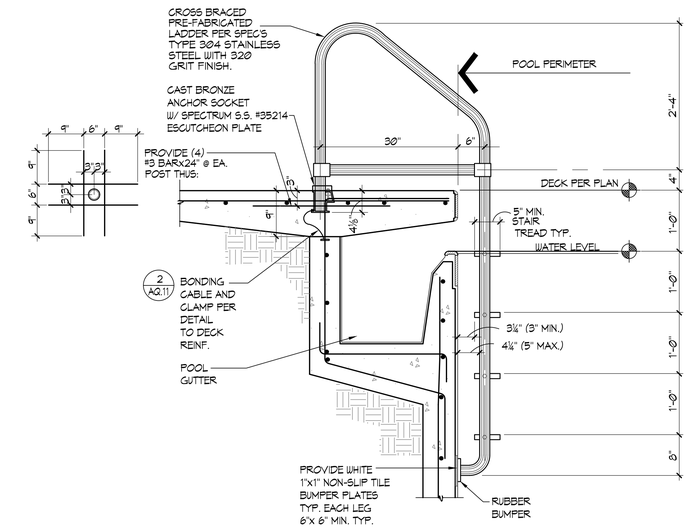

## 2 ROPE ANCHOR

½" = 1"



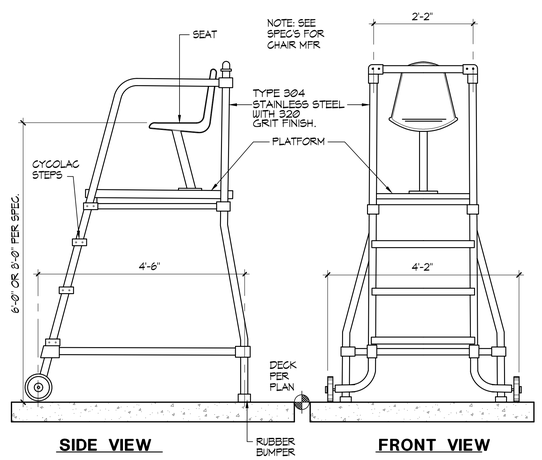

## 3 STANCHION POST/ANCHOR

3"=1'-Ø"



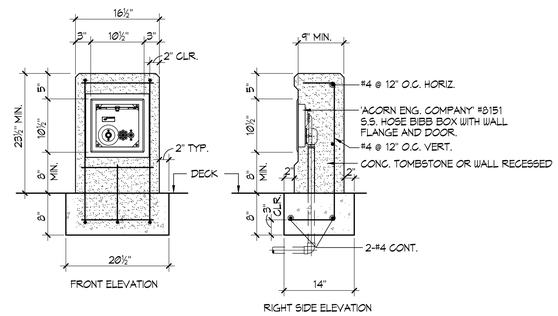

## 4 POOL LADDER

1"=1'-Ø"



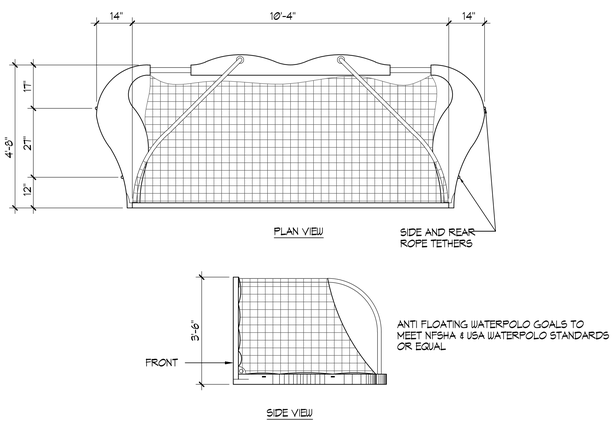

## 5 MOVEABLE LIFEGUARD CHAIR

¾"=1'-Ø"




## 6 HOSE BIBB

1"=1'-Ø"




## 7 FLOATING WATER POLO GOALS

½"=1'-Ø"

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**CENTENNIAL HIGH SCHOOL AQUATICS CENTER**

PROJECT ADDRESS:
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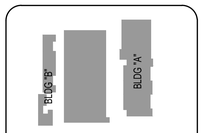
CORONA, CA 92881

DESIGN DEVELOPMENT DSA FILE NO.: ###-##
DSA APPL NO.: ##-###### DSA FILE NO.: ###-##




KEY PLAN
NORTH: PLAN

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Architect
LICENSED ARCHITECT RICHARD S. FISH III REN. 07/31/25 STATE OF CALIFORNIA
FOR PLAN CHECK ONLY

CLIENT
CORONA-NORCO UNIFIED SCHOOL DISTRICT

DATE 04-28-23
PROJECT NUMBER 220306

REVISIONS

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|---|---|---|
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CONSTRUCTION DEVELOPMENT

DETAILS

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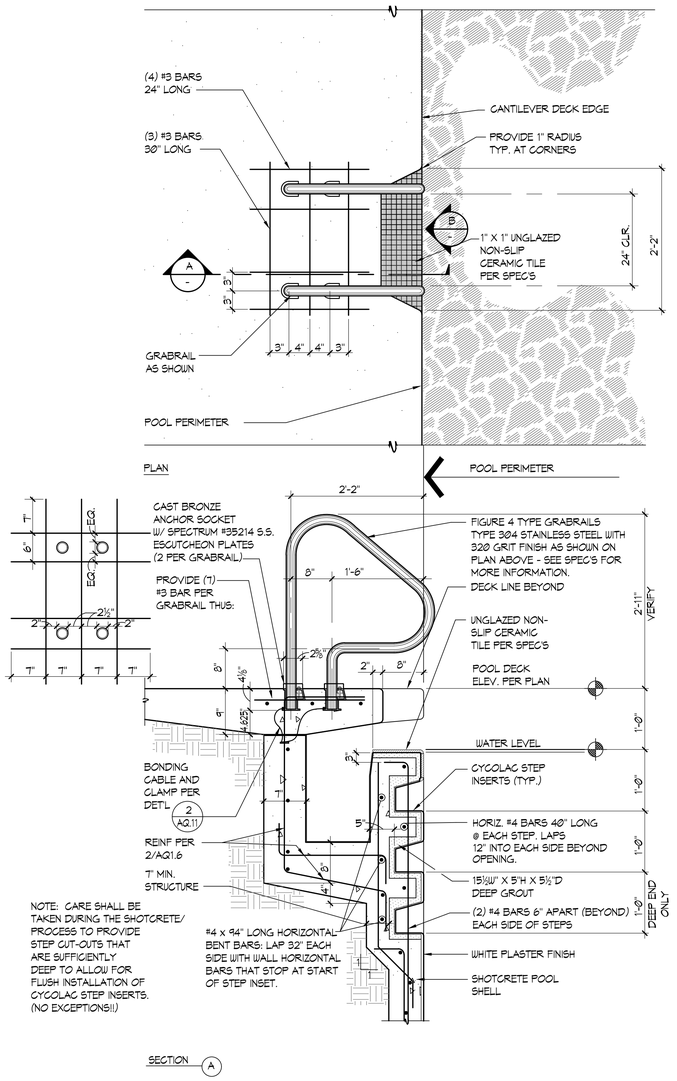
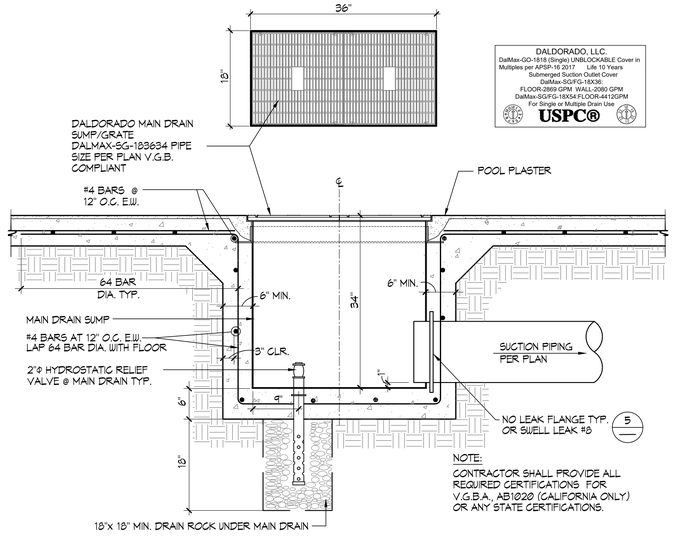
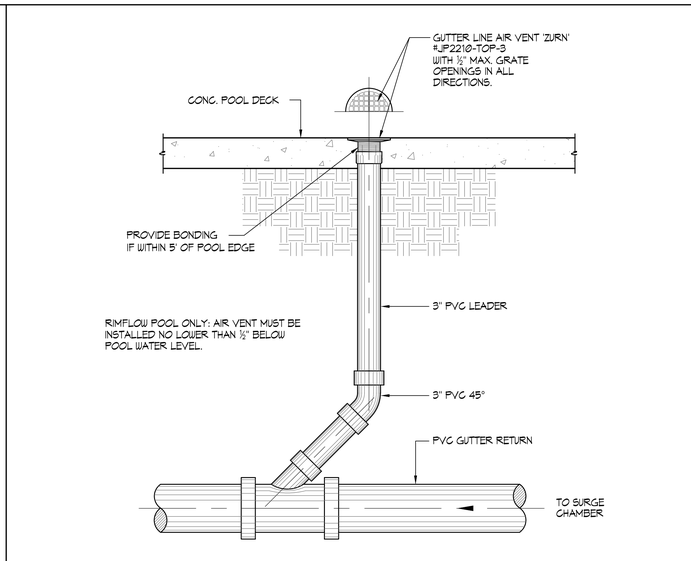


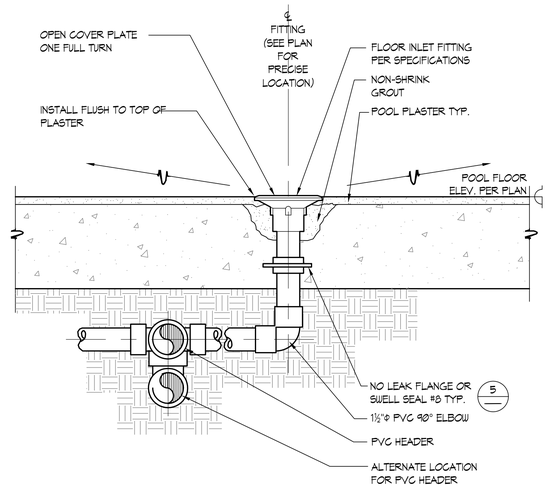

1 **GRABRAIL WITH STEPS** 1"=1'-0"



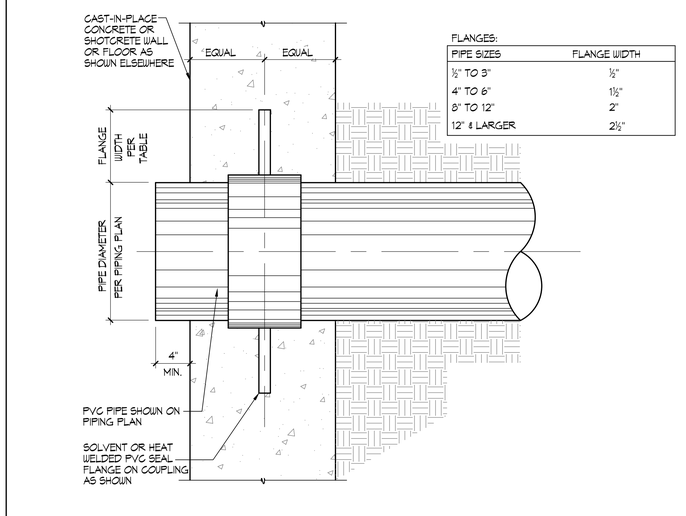

2 **MAIN DRAIN** 1" = 1'-0"



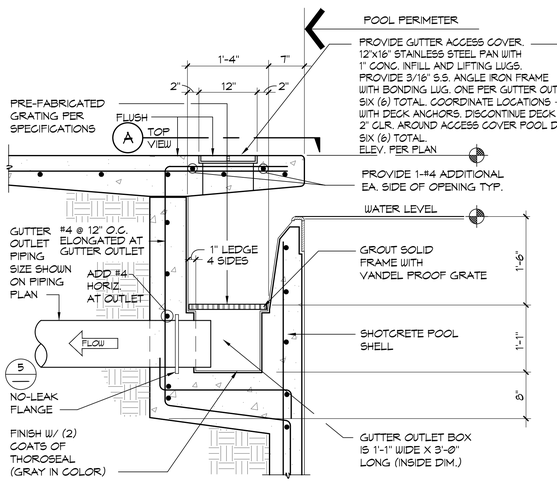

3 **AIR VENT** 1"=1'-0"




4 **FLOOR INLET** 3"=1'-0"




5 **WATER STOP DETAIL** NO SCALE




6 **GUTTER OUTLET** 1"=1'-0"

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DSA APPL NO.: ##-###### DSA FILE NO.: ###

BLDG "B" BLDG "A"

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Architect

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CONSTRUCTION DEVELOPMENT

**DETAILS**

**AQ.9**

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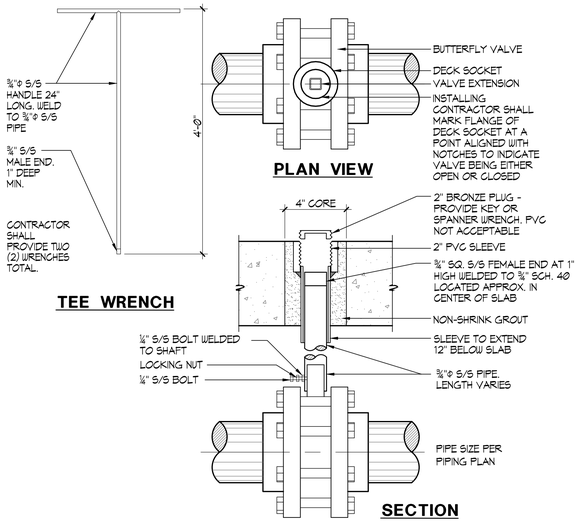
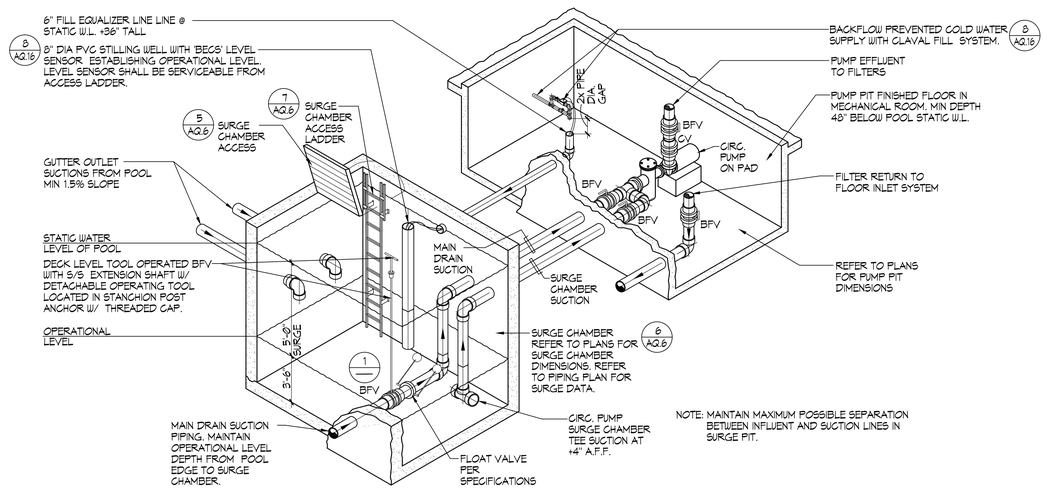
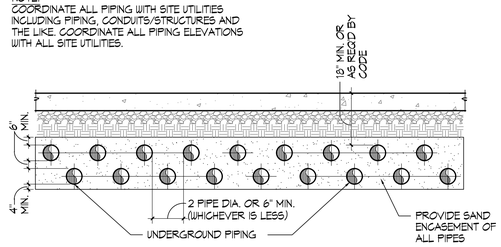



## 1 SURGE CHAMBER BUTTERFLY VALVE / EXTENSION DETAIL NO SCALE

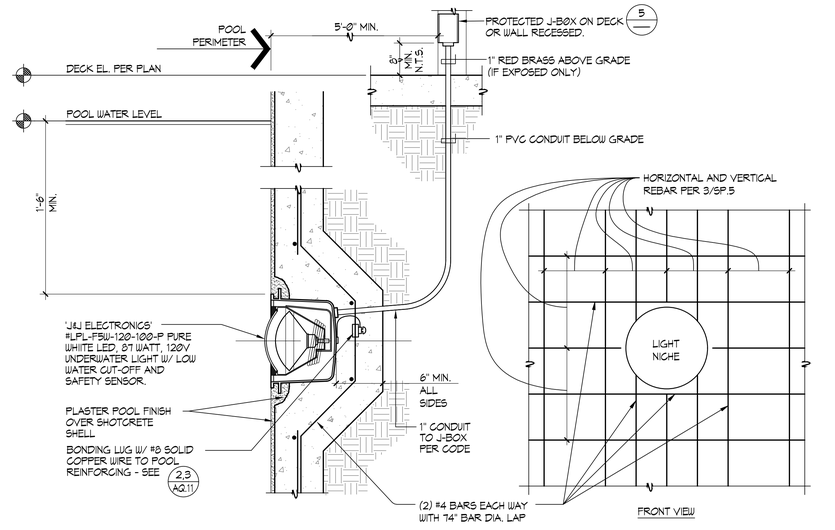



## 2 SURGE CHAMBER PIPING SCHEMATIC NO SCALE

NOTE:
COORDINATE ALL PIPING WITH SITE UTILITIES INCLUDING PIPING, CONDUITS/STRUCTURES AND THE LIKE. COORDINATE ALL PIPING ELEVATIONS WITH ALL SITE UTILITIES.



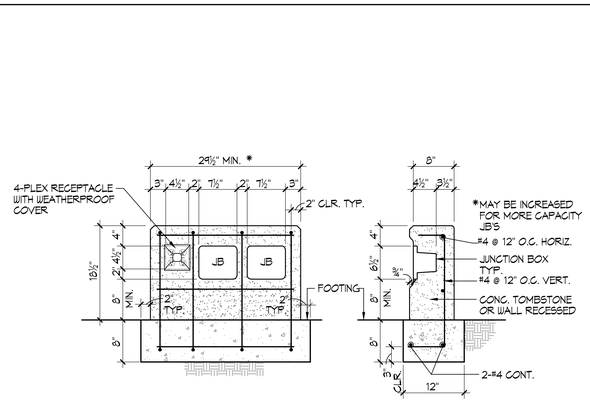

## 3 STACKED UNDERGROUND PIPING NO SCALE



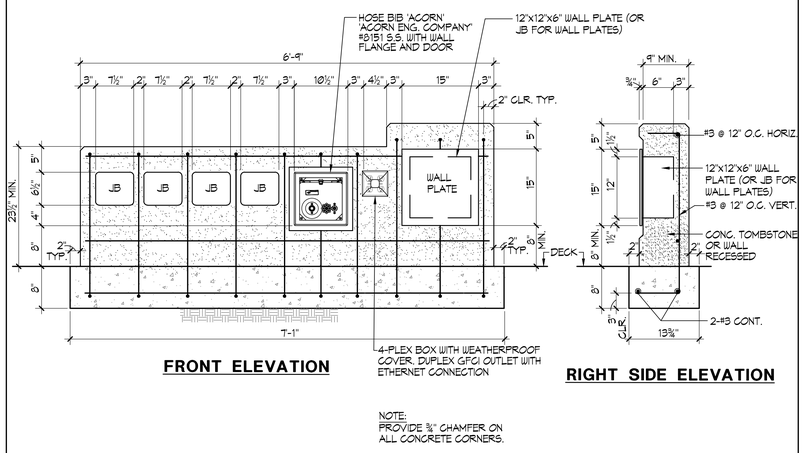

## 4 UNDERWATER LED LIGHT 1½"=1'-0"

UNDERWATER LIGHT NOTES:

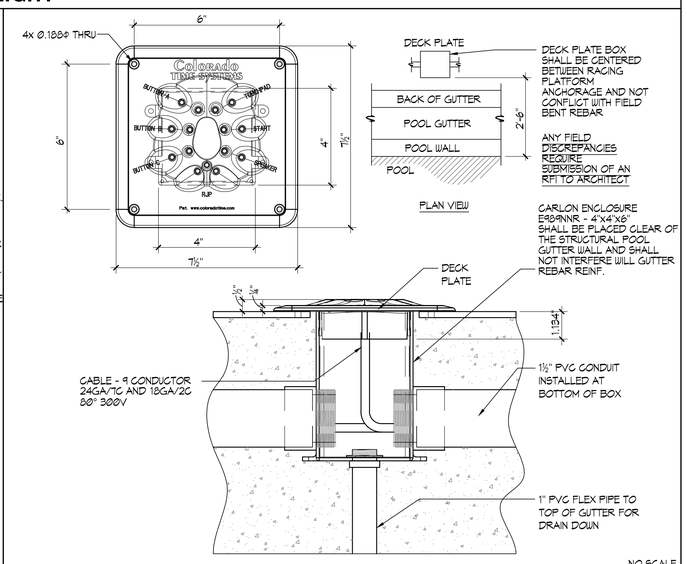
1. ALL CONDUITS IN POOL LIGHTING SYSTEM TO BE A MINIMUM OF 1"ø.
2. CONDUCTORS TO POOL J-BOXES SHALL BE MINIMUM 2-#8 & 1#8 (SEE UNDERWATER LIGHT PLAN) SOLID UNBROKEN TO MAIN PANEL ISOLATED GROUND BUSS. THIS BUSS IS TO BE CONNECTED WITH SOLID INSULATED #8 COPPER WIRE TO UFER & COLDWATER GROUNDING LUG ON GROUNDING BUSS. UPSIZE CONDUCTORS AS REQUIRED FOR HOMERUNS EXCEEDING 100'. (3 AQ.11)
3. ALL BRASS POOL J-BOXES SHALL BE FLUSH MOUNTED IN WALLS. IF FLUSH MOUNTING IS NOT POSSIBLE THEN MOUNTING SHALL BE SURFACE MOUNTED AND CONCRETE ENGASED. (5)
4. CONDUITS WHERE ALLOWED BY CODE SHALL BE P.V.C. (POLYVINYL CHLORIDE) FROM WET NICHES TO BRASS J-BOXES TO LIGHTING PANEL. ALL CONDUITS IN FREE AIR SPACE AND ALL RISERS SHALL BE RED BRASS TYPICAL. PVC CONDUITS SHALL BE SOLVENT WELDED WITH PURPLE PRIMER AND GRAY HEAVY BODIED GLUE.
5. LIGHTING CONTACTORS SHALL BE "ALLEN-BRADLEY" #500 L; OR EQUAL MOUNTED IN A NEMA 12 HINGED COVER - LOCKABLE ENCLOSURE. CONTACTORS TO BE SWITCHED BY MOMENTARY SWITCH EQUAL TO "HUBBELL" #1557 MOUNTED IN J-BOX IN MECHANICAL EQUIPMENT ROOM. REFER TO ELECTRICAL PLANS FOR LOCATION OF OWNER COORDINATED REMOTE UNDERWATER LIGHT SWITCH.
6. BRASS POOL J-BOXES SHALL BE "HYDREL" #1719 ; W/ 1" HUBS OR EQUAL. (NO DIE CAST BOXES).
7. STRINGS SHALL BE PULLED IN ALL CONDUITS PRIOR TO PLACEMENT OF CONCRETE.
8. LOCAL, COUNTY OR CITY CODES SHALL BE ADHERED TO, SPECIFICATIONS TO BE IN ACCORDANCE WITH SECTION 680 OF LATEST N.E.C. BOOK.
9. PROVIDE PULL BOXES AS MAY BE REQUIRED FOR RUNS EXCEEDING 150 FT. OR DUE TO CHANGES IN GRADE OR DIRECTION.
10. CONTRACTOR SHALL TEST UNDERWATER POOL LIGHT GFIC CIRCUITS AND PROVIDE LETTER TO OWNER/DSA UPON SUCCESSFUL TEST.
11. SEAL CONDUIT OPENING IN LIGHT NICHE WITH SILICON CAULKING AFTER LIGHT IS INSTALLED.
12. PRIOR TO LIGHT INSTALLATION, PROVIDE MINIMUM 10 PSI PRESSURE TEST ON ALL POOL LIGHT CONDUITS FOR FOUR (4) HOURS OBSERVED BY INSPECTOR OF RECORD. MAINTAIN PRESSURE UNTIL ALL DECKS ARE POURED.




## 5 UNDERWATER LIGHT JUNCTION BOX CONCRETE SURROUND DETAIL 1"=1'-0"




## 6 UNDERWATER LIGHT JUNCTION BOX / HOSE BIB / WALL PLATE CONCRETE SURROUND DETAIL 1"=1'-0"




## 7 TITANIUM DECK PLATE DETAIL (LOCATED UNDER RACING PLATFORM) NO SCALE

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# CENTENNIAL HIGH SCHOOL AQUATICS CENTER

PROJECT ADDRESS:
1820 RIMPAU AVE.
CORONA, CA 92881

DESIGN DEVELOPMENT DSA APPL NO.: ##-###### DSA FILE NO.: ###




KEY PLAN
NORTH: PLAN

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Architect
LICENSED ARCHITECT GREGORY S. FINNELL REN. 07/31/25 OF CALIFORNIA
FOR PLAN CHECK ONLY

CLIENT
CORONA-NORCO UNIFIED SCHOOL DISTRICT

| DATE | PROJECT NUMBER |
|---|---|
| 04-28-23 | 220306 |

REVISIONS

| No. | Description | Date |
|---|---|---|
| | | |

CONSTRUCTION DEVELOPMENT

DETAILS

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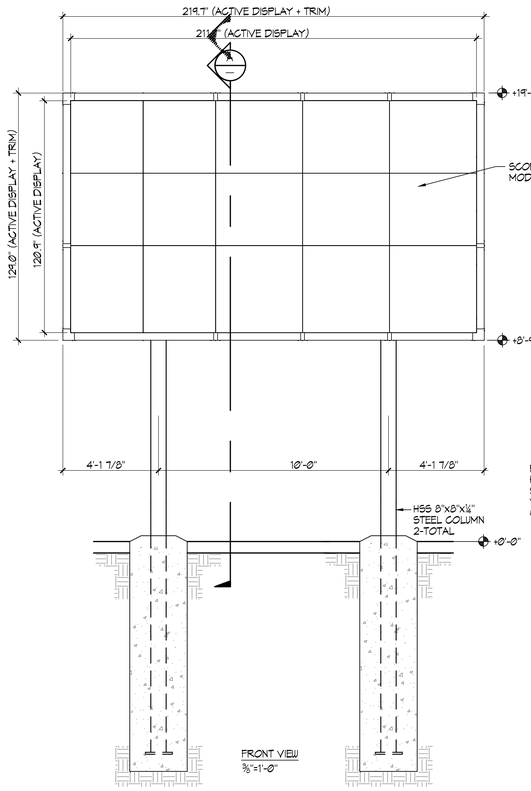
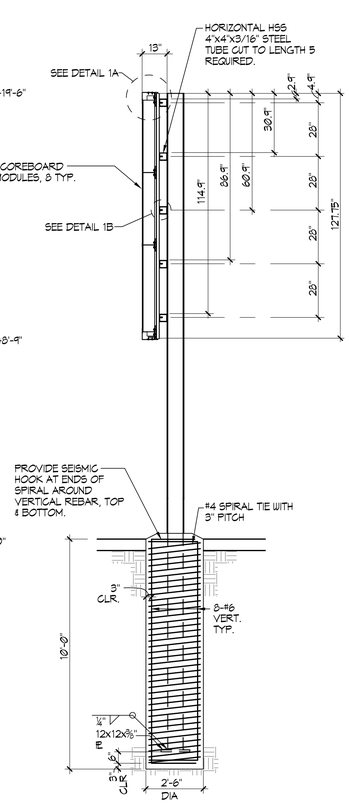



A - EACH 2-PLEX RECEPTACLE SHALL BE 120V MIN. 20 AMP
- RECEPTACLES TO BE PLACED BEFORE CTS INSTALLATION.

- SINGLE GANG WALL BOX WITH BLANK PLATE FOR DATA CABLE. ONE PER DISPLAY.
- EACH CIRCUIT SHALL BE DEDICATED 120V. MIN. 20 AMPS. CALIFORNIA ELECTRIC CODE REQUIRES A MEANS OF DISCONNECTING SIGNS AT THE LOCATION OF THE SIGN. SCOREBOARD SHALL BE WIRED IN ACCORDANCE WITH NATIONAL ELECTRIC CODE ART. 600-6.
- IT IS EXTREMELY IMPORTANT THAT THE CIRCUITS USED TO POWER THE SCOREBOARD NOT BE SHARED WITH OTHER DEVICES. THE SCOREBOARD IS SENSITIVE TO "NOISE" ON AC POWER LINES.
- DISPLAY SHALL BE EARTH GROUNDED. NUMBER AND LENGTHS OF RODS SHALL MEET CALIFORNIA ELECTRIC CODE.
- DISPLAY MAXIMUM POWER CONSUMPTION: 12,400 WATTS

SPECIFICATIONS:

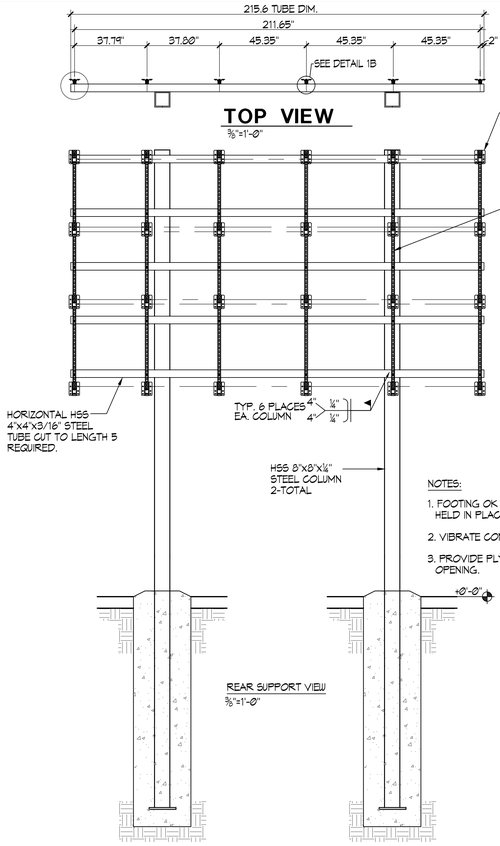
GENERAL:

- ALL STEEL CONSTRUCTION
- FINISH TO BE BLACK POWDER COAT / ENAMEL PAINT
- DIMENSIONS ARE SUBJECT TO CHANGE DUE TO DETAILED DESIGN CONSIDERATIONS. ONLY APPROVED SHOP DRAWINGS SHALL BE USED FOR CONSTRUCTION.
- DISPLAY MUST BE EARTH GROUNDED. NUMBER AND LENGTHS OF RODS SHALL MEET CALIFORNIA ELECTRIC CODE.
- DESIGN AND CONSTRUCTION OF FRAME MOUNTING STRUCTURE IS TO BE DONE BY OTHERS AND MUST MEET ALL LOCAL AND NATIONAL BUILDING CODES.

SYSTEM WEIGHTS:

- DISPLAY - APPROXIMATELY 2,420 LBS.
- FRAME AND EDGE TRIM - APPROXIMATELY 260 LBS.
- DISPLAY MOUNTING CHANNELS SHALL BE ALIGNED USING TEMPLATE.

A SECTION
3/8"=1'-0"



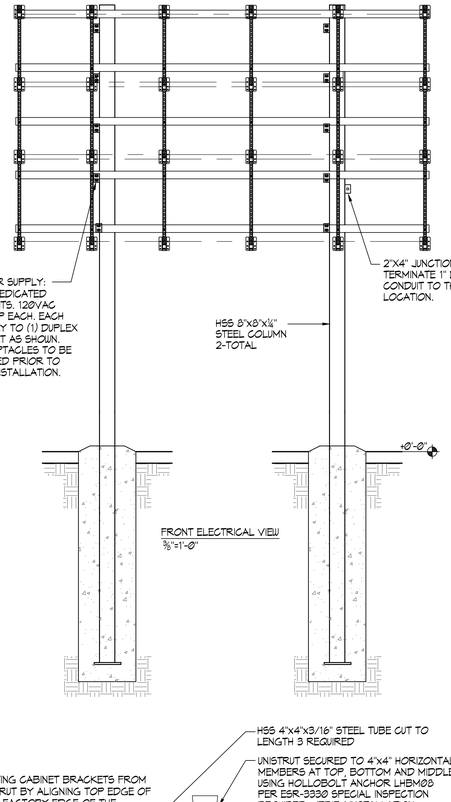

TOP VIEW
3/8"=1'-0"




NOTES:

1. FOOTING OK FOR SINGLE POUR COLUMN TO BE HELD IN PLACE WITH FORM TEMPLATE.
2. VIBRATE CONCRETE FULL DEPTH.
3. PROVIDE PLYWOOD COLLAR AROUND OPENING.

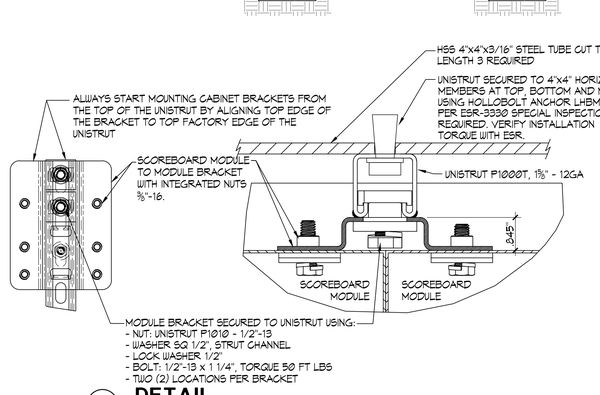
REAR SUPPORT VIEW
3/8"=1'-0"




FRONT ELECTRICAL VIEW
3/8"=1'-0"

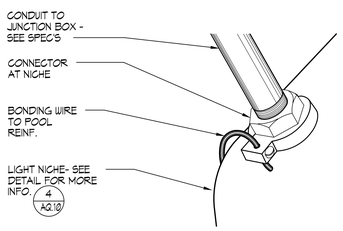



1A DETAIL
NO SCALE

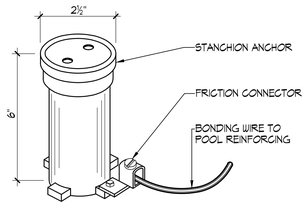



1B DETAIL
NO SCALE

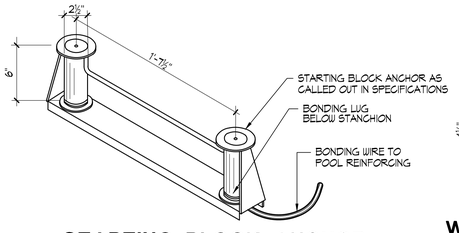
1 SCOREBOARD DETAILS AS NOTED




NICHE CONNECTOR
NO SCALE




STANCHION ANCHOR
NO SCALE




STARTING BLOCK ANCHOR
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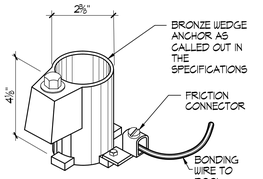


WEDGE ANCHOR
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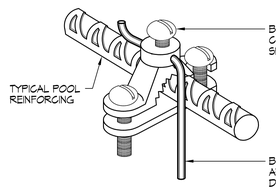
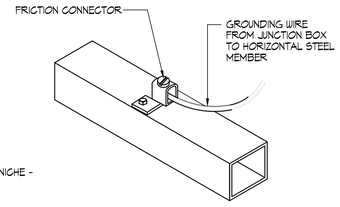
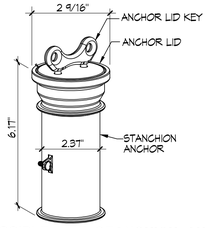



BONDING CLAMP
NO SCALE

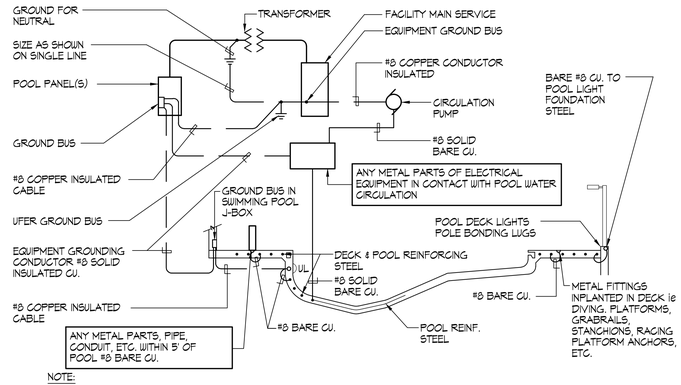



SCOREBOARD ELEC. GROUNDING




ACCESSIBLE LIFT STANCHION ANCHOR
NO SCALE

2 BONDING DETAILS NO SCALE




NOTE:

1. STRUCTURAL STEEL IN POOL DECK AND POOL SHALL BE BONDED TOGETHER (TIGHTLY MADE STEEL TIE-WIRES ARE APPROVED FOR BONDING STRUCTURAL ELEMENTS).
2. BONDING CONNECTOR TO COMMON GRID. (POOL STEEL MAY BE USED FOR THAT PURPOSE) SHALL BE MADE BY PRESSURE CONNECTORS OR CLAMPS OF BRASS, COPPER, OR COPPER ALLOY.
3. ALL GROUND BUSES SHALL BE SIZED FOR CONNECTION TO AWG SIZE 8 WIRE PROVIDING ONE SPARE TERMINAL.
4. GROUND AND BOND IN ACCORDANCE WITH ARTICLE 680 OF THE CALIFORNIA ELECTRICAL CODE. Ie. LADDERS, FENCING, POLE LIGHTS, DIVING & STARTING STANCHIONS, DISABLED LIFT ETC.
5. PROVIDE BONDING OF AUTOMATIC POOL COVER MOTORS REGARDLESS OF PROXIMITY TO POOL.

3 TYPICAL POOL BONDING AND GROUND DETAIL NO SCALE

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DESIGN DEVELOPMENT

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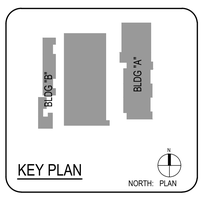


KEY PLAN
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Architect
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| 04-28-23 | 220306 |

REVISIONS

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CONSTRUCTION DEVELOPMENT

DETAILS

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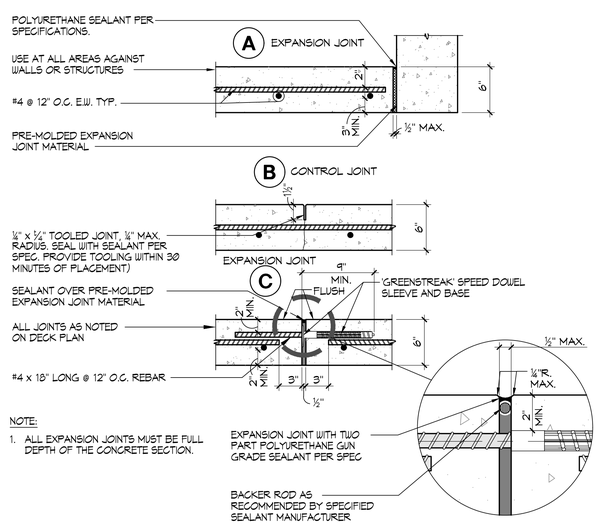
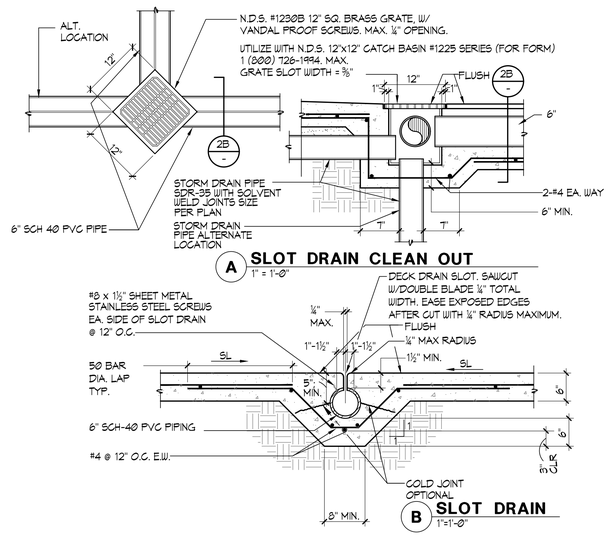
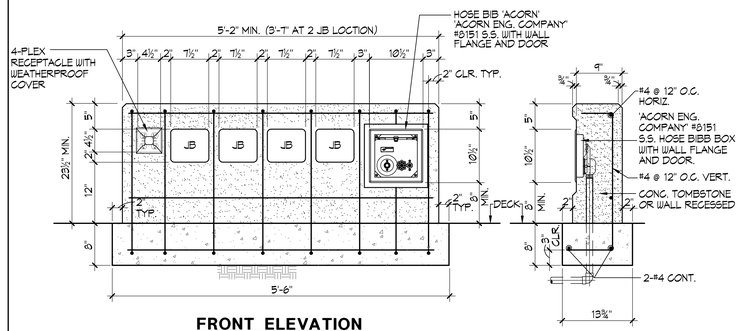


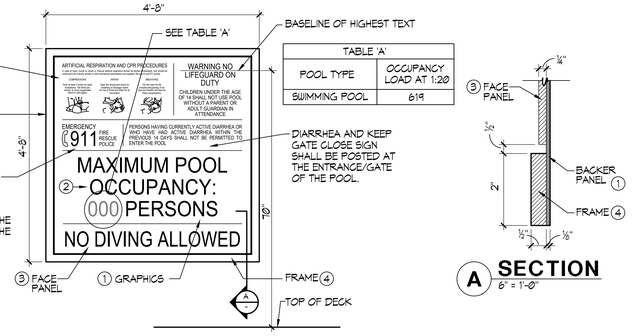

## 1 CONCRETE DECK JOINT DETAILS 1½"=1'-0"




## 2 SLOT DRAIN 1"=1'-0"




## 3 UNDERWATER LIGHT JUNCTION BOX / HOSE BIB CONCRETE SURROUND DETAIL 1"=1'-0"







## A SECTION 6" = 1'-0"

### SIGNAGE NOTES AND SPECIFICATIONS:

1. ⅛" THICK PAINTED ALUMINUM BACKER PANEL.
2. SILKSCREENED COPY/GRAPHICS WITH NON GLARE FINISH.
3. ¼" THICK PAINTED ALUMINUM FACE PANEL WITH SILKSCREENED COPY/GRAPHICS. ATTACH TO ⅛" THICK PAINTED ALUMINUM BACKER PANEL USING 'VHB' TAPE AND SILICONE ADHESIVE.
4. 2" WIDE x ½" THICK PAINTED ALUMINUM SIGN FRAME ADHERED TO ⅛" THICK PAINTED ALUMINUM BACKER USING 'LORDS' ADHESIVE AS REQUIRED. VERTICAL SECTIONS OF FRAME TO BE RECTANGULAR TUBE. FILL AND SAND SEAM ALONG EDGE AND FACE PRIOR TO PAINTING.

### REQUIRED SIGNAGE:

1. ALL SIGNS SHALL HAVE CLEARLY LEGIBLE LETTERS OR NUMBERS NOT LESS THAN 4 INCHES HIGH, UNLESS OTHERWISE NOTED; AFFIXED TO A WALL, POLE, GATE, OR SIMILAR PERMANENT STRUCTURE IN A LOCATION VISIBLE TO ALL POOL USERS.
   - A. POOL USER CAPACITY SIGN; A SIGN SHALL INDICATE THE MAXIMUM NUMBER OF POOL USERS PERMITTED FOR EACH POOL. LETTERS AND NUMBERS TO BE NOT LESS THAN 4 INCHES HIGH.
   - B. NO LIFEGUARD SIGN; WHERE NO LIFEGUARD SERVICE IS PROVIDED, A WARNING SIGN SHALL BE POSTED STATING, "NO LIFEGUARD ON DUTY." THE SIGN ALSO SHALL STATE IN LETTERS AT LEAST 1 INCH HIGH, "CHILDREN SHOULD NOT USE POOL WITHOUT ADULT SUPERVISION."
   - C. ARTIFICIAL RESPIRATION AND CARDIO PULMONARY RESUSCITATION SIGN; AN ILLUSTRATED DIAGRAM WITH TEXT AT LEAST ¼ INCH HIGH OF ARTIFICIAL RESPIRATION AND CARDIO PULMONARY RESUSCITATION PROCEDURES SHALL BE POSTED.
   - D. EMERGENCY SIGN; THE EMERGENCY TELEPHONE NUMBER, 911, WITH NUMBERS NOT LESS THAN 4 INCHES, THE NUMBER OF THE NEAREST EMERGENCY SERVICES AND THE NAME AND STREET ADDRESS OF THE POOL FACILITY SHALL BE POSTED WITH NUMBERS AND TEXT AT LEAST 1 INCH HIGH.
   - E. NO USE AFTER DARK; WHERE POOLS WERE CONSTRUCTED FOR WHICH LIGHTING WAS NOT REQUIRED, A SIGN SHALL BE POSTED AT EACH POOL ENTRANCE ON THE OUTSIDE OF THE GATE(S) STATING, "NO USE OF POOL ALLOWED AFTER DARK."
   - F. KEEP CLOSED; A SIGN SHALL BE POSTED ON THE EXTERIOR SIDE OF GATES AND DOORS LEADING INTO THE POOL ENCLOSURE AREA STATING, "KEEP GATE CLOSED" OR "KEEP DOOR CLOSED".
   - G. DIARRHEA; THE POOL OPERATOR SHALL POST AT THE ENTRANCE AREA OF A PUBLIC POOL A SIGN IN LETTERS AT LEAST ONE INCH HIGH THAT CLEARLY STATES THAT PERSONS WITH DIARRHEA AND PERSONS WHO HAVE HAD DIARRHEA WITHIN THE PRIOR 14 DAYS SHALL NOT ENTER THE POOL WATER.
2. DIRECTION OF FLOW SIGNAGE AND LABELS.
   - A. THE DIRECTION OF FLOW FOR THE RECIRCULATION EQUIPMENT SHALL BE LABELED CLEARLY WITH DIRECTIONAL SYMBOLS SUCH AS ARROWS ON ALL PIPING IN THE EQUIPMENT AREA.
   - B. WHERE THE RECIRCULATION EQUIPMENT FOR MORE THAN ONE POOL IS LOCATED ON SITE, THE EQUIPMENT SHALL BE MARKED AS TO WHICH POOL THE SYSTEM SERVES.
   - C. VALVES AND PLUMBING LINES SHALL BE LABELED CLEARLY WITH THE SOURCE OR DESTINATION DESCRIPTIONS.

## 4 POOL SIGNAGE DETAIL ¾"=1'-0"

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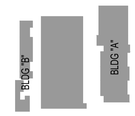


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Architect
LICENSED ARCHITECT GREGORY S. PERRY
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DATE 04-28-23
PROJECT NUMBER 220306

REVISIONS

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|---|---|---|
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CONSTRUCTION DEVELOPMENT

DETAILS

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## EQUIPMENT LIST

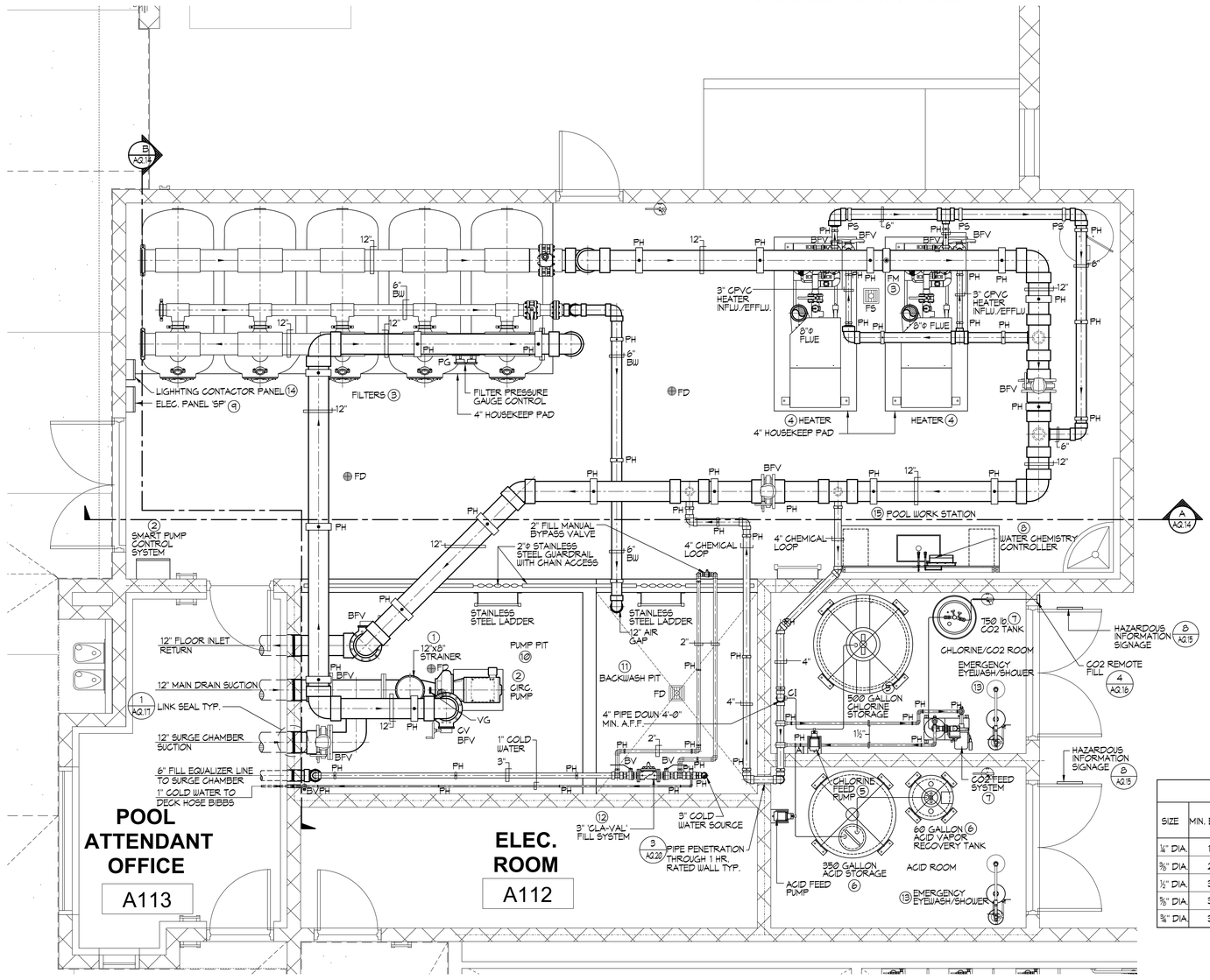
1. SWIMMING POOL STRAINER: 'MER-MADE' F.O. SERIES FRP REDUCING BASKET STRAINER: ONE (1) 12"x6" STANDARD, WITH ACRYLIC LID AND TWO (2) STAINLESS STEEL STRAINERS EA. (150lbs.)
2. (3 AQ.15) (5 AQ.16) (5-7 AQ.18) (1-2 AQ.19) SWIMMING POOL CIRCULATION PUMP: 'PACO' #6015-7, 6"x6"x15" TYPE 'LC' END SUCTION CENTRIFUGAL PUMP; 1,150 RPM, 460V, 3PH; 40HP, RATED AT 1,930 GPM @ 60 FT. TDH, 85% EFFICIENT; 'PREMIUM EFFICIENCY TEFC MOTOR; EPOXY COAT ALL WET SURFACES. 'PACO', 'AURORA' OR APPROVED EQUAL. (160 lbs.) PROVIDE 'SPCS' SMART PUMP CONTROL SYSTEM VARIABLE SPEED DRIVE MODEL SPCS040EF4 SYSTEM 21"x48"x11" DEEP. COORDINATE MOUNTING LOCATION TO MAINTAIN DESIRED CLEARANCES, 460V 3PH. (177 lbs.)
3. (1 AQ.15) (5 AQ.16) (3 AQ.18) SWIMMING POOL FILTERS: 'EKO3 GEN 2 #42260-1206-T-5 FULLY AUTOMATIC HI-RATE PERMANENT MEDIA FILTER WITH 130 SQ. FT. OF FILTER AREA RATED AT 1,950 GPM AT 15 GPM/SQ. FT. COMPLETE WITH 12" FACE PIPING, 6" BACKWASH, SEISMIC ANCHORAGE. PROVIDE UTILITIES, PIPING, VALVING, ETC. (8,660 lbs EA. TANK) 'EKO3 GEN 2', OR EQUAL. PROVIDE SIGNET P51530-P2, 12" FLOSENSOR WITH DIGITAL READ-OUT.
4. (2 AQ.15) (5 AQ.16) SWIMMING POOL HEATER(S): INDIRECT FIRED POOL HEATING PACKAGE SYSTEM, 'AQUA-S' CREST WITH SMARTTOUCH CONTROL CONDENSING MODULATING BOILER, TITANIUM PLATE AND FRAME HEAT EXCHANGER WITH GPVG CONNECTIONS, FACTORY ASSEMBLED SKID MOUNTED PACKAGE, CALIFORNIA CODE CONTROLS, 1½" NATURAL GAS CONNECTION, 3" WATER CONNECTIONS, 8" DIAMETER VENT SIZE, PVG VENTED, 1,999,000 BTU PER HOUR INPUT, 97% EFFICIENT, PROVIDE ¾" COLD WATER TO EACH UNIT WITH ADJACENT FLOOR SINK FOR CONDENSATE. 'LOCHINVAR AP020000N', WEIGHT = 3,391 lbs. EA. TWO (2) TOTAL.
5. (4 AQ.15) (1,8 AQ.15) (1 AQ.16) (5 AQ.16) CHLORINE STORAGE/FEED SYSTEM: PROVIDE 'CHEM-TAINER' 500 GALLON #TC5911DC, DUAL STORAGE/CONTAINMENT TANK WITH LID SEISMICALLY RESTRAINED; OPERATING WEIGHT = (4,165 lbs). COMPLIES WITH FED. REG #40CFR-264-193. FEED PUMP SHALL BE 'LMI' #SD43-88P-KSI; 288 GPD @ 15 PSI WITH FRP SHELF BRACKETS. HARD PIPE TO POINT OF INJECTION.
6. (5-8 AQ.15) (1 AQ.16) (5 AQ.16) ACID STORAGE/FEED SYSTEM: PROVIDE 'CHEM-TAINER' 350 GALLON #TC5256DC; DUAL STORAGE/CONTAINMENT TANK WITH LID SEISMICALLY RESTRAINED; OPERATING WEIGHT =(2,915lbs). COMPLIES WITH FED. REG #40CFR-264-193. PROVIDE 60 GALLON ACID VAPOR RECOVERY SYSTEM, ONE (1) TOTAL.
7. (8 AQ.15) (2-5 AQ.16) CARBON DIOXIDE STORAGE FEED SYSTEM: PROVIDE ONE (1) 'NOVO-750', 750lb. CRYOGENIC LIQUID CO2 STORAGE TANK WITH ELECTRIC TANK HEATER, DUCTILE SEISMIC ANCHOR RING AND REMOTE FILL PORT, 544 LIQUID lbs., (5,195 CUBIC FEET OF GASEOUS CO2 AT NTP) ONE (1) TOTAL. PROVIDE EKO 'PH-MTS CO2 HIGH EFFICIENCY' FEED SYSTEM WITH ALKALINITY CONTROL, 0 TO 160 SCFH FEED CAPACITY BOOSTER PUMP, PIPING INJECTOR, FLOWMETER, RELAYS AND ACID FEED ALKALINITY CONTROL ONE (1) SYSTEM TOTAL (92lbs. EA.) PROVIDE HARD WIRED 'ANALOX' #API KIT CO2 DETECTOR WITH AUDIBLE AND VISUAL ALARMS IN EACH CHEMICAL ROOM, UL 1971 STANDARD LISTED, ONE (1) TOTAL.
8. (5 AQ.16) (7 AQ.16) (2 AQ.17) (4.5 AQ.17) WATER CHEMISTRY CONTROLLER: PROVIDE ETHERNET CONNECTION TO 'BECSYS' C5-BECSYS7-BP-E WATER CHEMISTRY CONTROLLER. PROVIDE COMPLETE SYSTEM CONTROL PACKAGE. 'BECSYS SYSTEM 7', 'IMPACT', 'WALLACE & TIERNAN' OR APPROVED EQUAL.
9. (5 AQ.16) (6 AQ.17) (3 AQ.19) ELECTRICAL: PROVIDE ALL ELECTRICAL WIRING, CONDUIT, PANEL(S), STARTER/DISCONNECT INTERCONNECT(S) ETC. AS REQUIRED FOR PROPER EQUIPMENT INSTALLATION PER MANUFACTURERS RECOMMENDATIONS AND SHOP DRAWINGS. COORDINATE ALL WORK WITH OTHER TRADES AS REQUIRED. REFER TO ELEC. PLANS FOR ALL ADDITIONAL INFO.
10. (8 AQ.17) (1 AQ.18) PUMP PIT: 10'-0" x 14'-0" x 5'-0" DEEP. PROVIDE 2'-0 GALV. STANDARD STEEL PIPE GUARDRAIL. PROVIDE FLOOR DRAIN TO WASTE. PROVIDE WATERPROOFING PER SPECIFICATIONS. ACCESS LADDER TO BE 'KARNEL' CUSTOM STAINLESS STEEL WITH GRAY EPOXY PAINT.
11. (8 AQ.17) (1 AQ.18) BACKWASH PIT: 8'-0" x 10'-0" x 5'-0" DEEP WITH 6'-0 P-TRAP OUTLET TO SEWER. PROVIDE WATERPROOFING PER SPECIFICATIONS. COORDINATE WITH STRUCTURAL AND PLUMBING PLANS.
12. (8 AQ.16) FILL SYSTEM: 3" 'CLA-VAL' FILL SYSTEM TO INCLUDE 3' 'CLA-VAL' SOLENOID CONTROL VALVE #136-01BY, 3" DUCT IRON, EPOXY COATED BODY WITH CAST IRON DISC RETAINER AND DIAPHRAGM WASHER, BRONZE TRIM, FLANGED GLOBE PATTERN, 120V AT 60HZ. SOLENOID WIRING SHALL BE WIRED TO WATER CHEMISTRY CONTROLLER. PROVIDE 6" AIR GAP AT FILL POINT .
13. (7 AQ.17) EYEWASH/SHOWER: HAWS MODEL #8308-8304CRP BARRIER FREE COMBINATION SHOWER AND EYE/FACE WASH WITH CORROSION RESISTANT PROTECTION. SEE MEP SHEETS FOR SUPPLY PIPING. TWO (2) TOTAL.
14. (4 AQ.19) LIGHTING CONTACTOR PANEL: 'ALLEN BRADLEY' #500L; OR APPROVED EQUAL. PANEL SHALL BE MOUNTED IN A NEMA 12 HINGED COVER - LOCKABLE ENCLOSURE. CONTACTORS TO BE SWITCHED BY MOMENTARY SWITCH EQUAL TO 'HUBBELL' #1551 MOUNTED IN J-BOX IN MECHANICAL EQUIPMENT ROOM. REMOTE UNDERWATER LIGHT SWITCH WILL BE LOCATED AT COACH'S OFFICE.
15. (1 AQ.20) POOL OPERATOR WORKSTATION DESK: 'TOTAL LAB SOLUTIONS' EPOXY COUNTERTOP WITH DROP-IN SINK AND TWO (2) END CABINETS. FURNISH WITH WALL MOUNTED TWO (2) FAUCETS 'BROEN BOSS' OR APPROVED EQUAL. SEE MEP PLANS FOR WATER SUPPLY PIPING.

## THREE PHASE MOTOR LOADS AT 460V

SWIMMING POOL CIRCULATION PUMP: 40 HP @ 460V = 52 AMPS

## GENERAL NOTES

1. THE PIPING SYSTEM SHALL HAVE DIRECTION OF FLOW ARROWS INDICATED ON THE PIPES.
2. PUBLIC POOLS SHALL HAVE A FLOW DIAGRAM OF THE POOL'S PIPING SYSTEM WITH OPERATION INSTRUCTIONS.
3. THE FLOW DIAGRAM AND INSTRUCTIONS SHALL BE AVAILABLE ON THE PREMISES AT ALL TIME
4. ALL MECHANICAL ROOM FLOORS SHALL BE SLOPED A MIN ¼" PER FOOT TO A DRAIN PER CBC 3122B. SEE ARCHITECTURAL SHEETS FOR SPOT ELEVATIONS AND SLOPES.
5. ALL ELECTRICAL CONDUITS WITHIN MECHANICAL ROOM AND CHEMICAL ROOMS SHALL BE RIDGID NEMA 3R SUITABLE FOR CORROSIVE ATMOSPHERE.




1 MECHANICAL ROOM LAYOUT PLAN ⅜"=1'-0"

## HEATER/GAS PIPING INSTALLATION NOTE

GAS FIRED POOL HEATER(S) INSTALLED ON A GAS SUPPLY SYSTEM UTILIZING A 2 PSI OR 5 PSI SUPPLY. GAS PRESSURE SHALL REQUIRE A REGULATOR TO REDUCE THE SUPPLY PRESSURE. A PROPERLY SIZED AND INSTALLED LOCK-UP-TYPE HIGH GAS PRESSURE REGULATOR (HGPR) SHALL BE USED TO REDUCE THE GAS PRESSURE AT THE UNIT INLET TO A MINIMUM OF 4" TO A MAXIMUM OF 11" WATER COLUMN.

'LOCHINVAR' RECOMMENDS THAT ANY REQUIRED LINE LOCK-UP-TYPE HIGH GAS PRESSURE REGULATOR BE INSTALLED WITH A MINIMUM OF 8 FEET TO 10 FEET OF PIPE FROM ITS DISCHARGE TO THE UNIT'S GAS INLET. IF A STRAIGHT DISTANCE OF GAS PIPE IS NOT AVAILABLE THE ADDITION OF A VERTICAL 'U' IN THE GAS PIPING DOWN STREAM FROM THE 'HGPR' CAN BE USED TO ACHIEVE THE 8 FEET TO 10 FEET OF DISTANCE.

CONTRACTOR IS RESPONSIBLE FOR HEATER VENTING, EXHAUST DUCTING, FLUE TERMINUS AND PENETRATION(S) THROUGH BUILDING STRUCTURE.

## LEGEND

| | | | | | |
|---|---|---|---|---|---|
| BV | = | BALL VALVE | PH / PS | = | PIPE HANGER / PIPE SUPPORT (2 AQ.20) (4 AQ.20) |
| BFV | = | BUTTERFLY VALVE | PG/VG | = | VACUUM / PRESSURE GAUGE (3 AQ.17) (4 AQ.18) |
| CV | = | CHECK VALVE | FD | = | FLOOR DRAIN |
| FM | = | FLOWMETER | RPBFP | = | REDUCED PRESSURE BACKFLOW PREVENTOR |
| BW | = | BACKWASH | | | |
| FS | = | FLOOR SINK | | | |
| AI | = | ACID INJECTION | | | |
| CI | = | CHLORINE INJECTION | | | |

## MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA - APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.28 AND ASCE 7-16 CHAPTERS 13, 26 AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER OF RECORD'S RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

## MECHANICAL ANCHORAGE

1. EXPANSION OR WEDGE ANCHORS INTO CONCRETE: HILTI KB TZ 2 (ICC ESR-4266) TO BE INSTALLED IN ACCORDANCE WITH ICC REPORT AND MANUFACTURER'S RECOMMENDATIONS.
2. EXPANSION OR WEDGE ANCHORS INTO MASONRY: HILTI KB TZ 2 (ICC ESR-4561) TO BE INSTALLED IN ACCORDANCE WITH ICC REPORT AND MANUFACTURER'S RECOMMENDATIONS.
3. FASTENERS SHALL BE STAINLESS STEEL FOR EXTERIOR USE OR WHEN EXPOSED TO WEATHER. PROVIDE GALVANIZED CARBON STEEL ANCHORS AT OTHER LOCATIONS, UNLESS OTHERWISE NOTED.
4. IF REINFORCEMENT IS ENCOUNTERED DURING DRILLING, ABANDON AND SHIFT THE HOLE LOCATION TO AVOID THE REINFORCEMENT. PROVIDE A MINIMUM OF 2 ANCHOR DIAMETERS OR 1 INCH, WHICHEVER IS LARGER, OF SOUND CONCRETE BETWEEN THE DOWEL AND THE ABANDONED HOLE. FILL THE ABANDONED HOLE WITH NON-SHRINK GROUT WITH CONCRETE STRENGTH EQUAL TO OR GREATER THAN BASE MATERIAL. IF THE ANCHOR OR DOWEL MAY NOT BE SHIFTED AS NOTED ABOVE, THE STRUCTURAL ENGINEER WILL DETERMINE A NEW LOCATION.
5. LOCATE REINFORCEMENT AND CONFIRM FINAL ANCHOR LOCATIONS PRIOR TO FABRICATING PLATES, MEMBERS, OR OTHER STEEL ASSEMBLIES ATTACHED WITH MECHANICAL ANCHORS.
6. ANCHORS SHALL BE PROOF-TESTED BY OWNER'S TESTING AND INSPECTION AGENCY.
7. TEST ANCHORS NO SOONER THAN 24 HOURS AFTER INSTALLATION.
8. APPLY TEST LOAD BY ANY METHOD THAT WILL EFFECTIVELY MEASURE THE TENSION OF THE ANCHOR SUCH AS DIRECT PULL WITH A HYDRAULIC JACK, TORQUE WRENCH, OR CALIBRATED SPRING LOADING DEVICES, ETC.
9. REACTION LOADS FROM TEST FIXTURES MAY BE APPLIED CLOSE TO THE ANCHOR BEING TESTED, PROVIDED THE ANCHOR IS NOT RESTRAINED FROM WITHDRAWING BY A BASE PLATE OR OTHER FIXTURE. IF RESTRAINT IS FOUND, LOOSEN AND SHIM OR REMOVE THE FIXTURE PRIOR TO TESTING.
10. UNLESS OTHERWISE NOTED, PROVIDE MINIMUM EMBEDMENT OF ANCHORS AS SHOWN IN TABLES BELOW.
11. TEST 50% OF ANCHORS PER ONE OF THE FOLLOWING METHODS AND IN ACCORDANCE WITH THE VALUES SHOWN IN THE TABLE:
    A. HYDRAULIC RAM METHOD: APPLY PROOF TEST LOAD WITHOUT REMOVING THE NUT. IF IT IS NOT POSSIBLE TO TEST WITH THE NUT INSTALLED, REPLACE THE NUT WITH A THREADED COUPLER TO THE LOAD. ANCHOR IS ACCEPTABLE IF NO MOVEMENT IS OBSERVED AT THE TEST LOAD. MOVEMENT MAY BE DETERMINED WHEN THE WASHER UNDER THE NUT BECOMES LOOSE.
    B. TORQUE WRENCH METHOD: TEST ANCHORS TO THE TORQUE LOAD INDICATED IN THE TABLE WITH ONE-HALF TURN OF THE NUT.
12. IF ANY ANCHOR FAILS TESTING, REPLACE ANCHOR AND TEST ADDITIONAL ANCHORS OF THE SAME CATEGORY NOT PREVIOUSLY TESTED UNTIL TWENTY (20) CONSECUTIVE TESTS PASS, THEN RESUME INITIAL TESTING FREQUENCY. CCD WILL BE REQUIRED.

## WEDGE, EXPANSION OR ADHESIVE ANCHOR EMBEDMENT DEPTH AND TEST LOAD

| SIZE | MIN. EMBED | HILTI KB TZ 2 (SS) ANCHORS IN CONCRETE | | KB TZ 2 (SS) ANCHORS IN CMU | | | HILTI HIT-HY 200 ADHESIVE ANCHORS IN CONCRETE | | |
|---|---|---|---|---|---|---|---|---|---|
| | | TENSION LOAD (LBS) | TORQUE LOAD (FT-LBS) | MIN. EMBED | TENSION LOAD (LBS) | TORQUE LOAD (FT-LBS) | MIN. EMBED | PULL TEST LOAD (LBS) | TORQUE LOAD (FT-LBS) |
| ¼" DIA. | 1½" | 800 | 6 | 1⅞" | 145 | 6 | - | - | - |
| ⅜" DIA. | 2½" | 1,500 | 30 | 3" | 590 | 15 | 3" | 2,910 | 15 |
| ½" DIA. | 3¼" | 3,000 | 40 | 3⅞" | 640 | 25 | 4" | 5,165 | 30 |
| ⅝" DIA. | 3¼" | 4,900 | 60 | 4½" | 940 | 35 | 5" | 8,245 | 60 |
| ¾" DIA. | 3¾" | 6,300 | 125 | 5½" | 1,305 | 50 | 6" | 10,150 | 100 |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**CENTENNIAL HIGH SCHOOL AQUATICS CENTER**

PROJECT ADDRESS: 1820 RIMPAU AVE. CORONA, CA 92881
DESIGN DEVELOPMENT
DSA APPL NO.: ##-##### DSA FILE NO.: ###




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| DATE | PROJECT NUMBER |
|---|---|
| 04-28-23 | 220306 |

REVISIONS

| No. | Description | Date |
|---|---|---|
| | | |

CONSTRUCTION DEVELOPMENT

**MECHANICAL ROOM LAYOUT PLAN**

AQ.13

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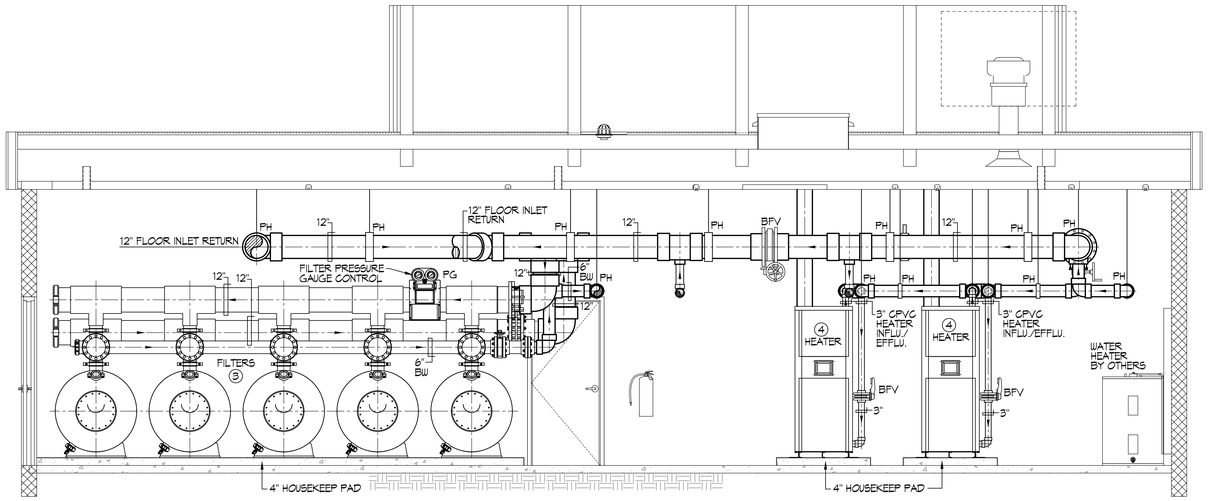
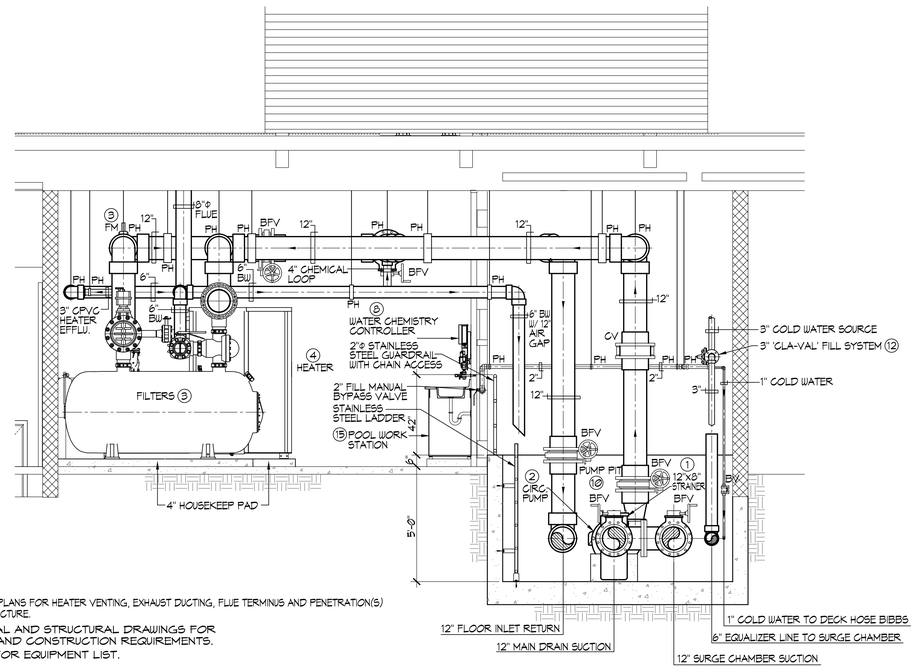



NOTES:

1. REFER TO MECHANICAL PLANS FOR HEATER VENTING, EXHAUST DUCTING, FLUE TERMINUS AND PENETRATION(S) THROUGH BUILDING STRUCTURE.
2. SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR BUILDING LAYOUT AND CONSTRUCTION REQUIREMENTS.
3. SEE SHEET AQ.13 FOR EQUIPMENT LIST.

A **MECHANICAL ROOM SECTION** ⅜"=1'-0"

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B **MECHANICAL ROOM SECTION** ⅜"=1'-0"

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BLDG "B" BLDG "A"

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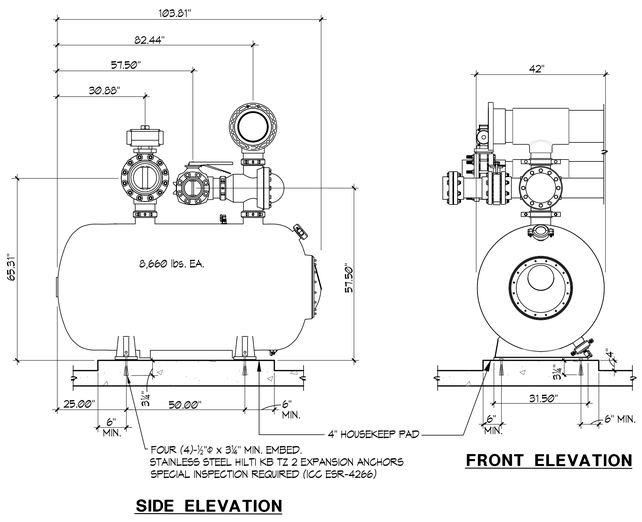
**CONSTRUCTION DEVELOPMENT**

**MECHANICAL ROOM SECTIONS**

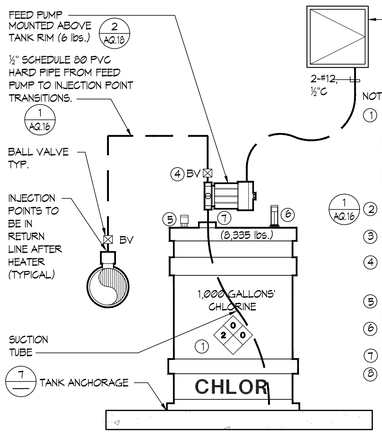
**AQ.14**




**SIDE ELEVATION**

**FRONT ELEVATION**

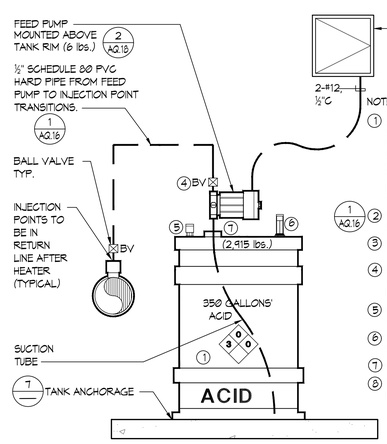
## 1 FILTER ANCHORAGE NO SCALE




NOTES:

1. ABOVEGROUND STATIONARY TANKS USED FOR THE STORAGE OF HAZARDOUS MATERIALS SHALL BE PLACARDED WITH HAZARD IDENTIFICATION SIGNS AS SPECIFIED IN C.F.C. 5003.5 AND NFPA 704 FOR THE SPECIFIC MATERIAL CONTAINED. SIGNS SHALL BE DURABLE. THE SIZE, COLOR AND LETTERING SHALL BE IN ACCORDANCE WITH NATIONALLY RECOGNIZED STANDARDS.
2. 1 AQ.16 PIPING, TUBING, VALVES AND RELATED COMPONENTS SHALL BE SEISMIC BRACED.
3. PIPING AND TUBING SHALL BE IDENTIFIED TO INDICATE THE MATERIAL CONVEYED.
4. EMERGENCY SHUTOFF VALVES SHALL BE IDENTIFIED AND THE LOCATION SHALL BE CLEARLY VISIBLE AND INDICATED BY MEANS OF A SIGN.
5. PROVIDE 2" 'CAMLOCK' FILL PORT PER VENDOR'S REQUIREMENTS.
6. 'AT-A-GLANCE' CHEMICAL GUAGE BY KRUEGER SENTRY GAUGE CO. INC.
7. PROVIDE VAPORLOC CAP @ TUBING ENTRANCE
8. PIPING, VALVING AND FITTINGS SHALL COMPLY WITH CFC 2103.2.2

## 2 HEATER ANCHORAGE NO SCALE

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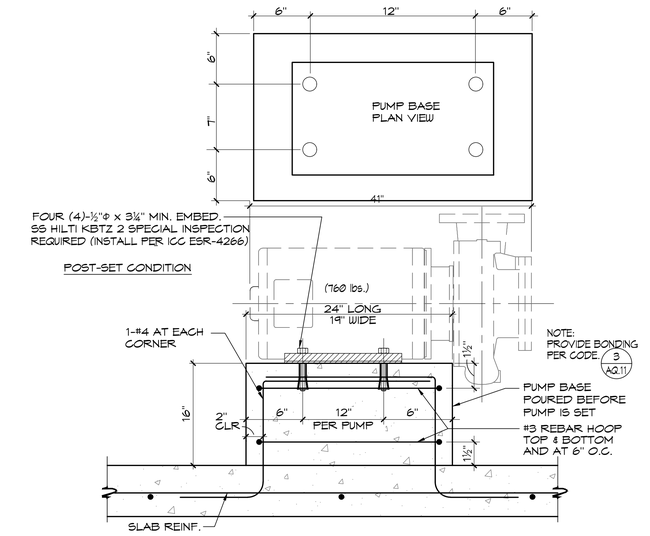
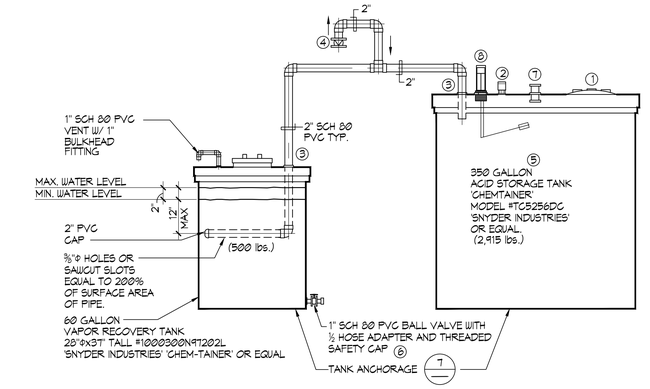
## 3 PUMP ANCHORAGE NO SCALE

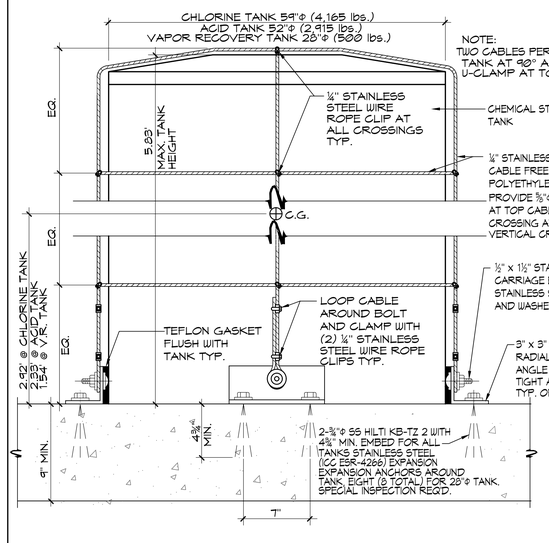



NOTES:

1. SEAL NON-VENTED MANWAY AND PERMANENTLY CLOSE.
2. PROVIDE CAMLOCK FITTING FOR FILL HOSE.
3. PROVIDE 2" BULKHEAD FITTING.
4. PROVIDE 2" BALL CHECK VALVE.
5. PROVIDE DOUBLE WALLED DUAL CONTAINMENT TANK.
6. PROVIDE ¾"x100' HOSE W/ NON-CORROSIVE ENDS.
7. PROVIDE 2" BULKHEAD FITTING WITH 'VAPORLOC' SYSTEM FOR FEED PUMP SUCTION LINES(5).
8. PROVIDE 'AT-A-GLANCE CHEMICAL GAUGE' BY KRUEGER SENTRY GAUGE CO. INC.




## 4 SODIUM HYPOCHLORITE FEED SCHEMATIC NO SCALE




## 5 MURIATIC ACID FEED SCHEMATIC NO SCALE

## 6 VAPOR RECOVERY TANK 1/16"=1'-0"

## 7 CHEMICAL TANK ANCHOR (TYP. 3 TANK) NO SCALE

### CHEMICAL CLASSIFICATION TABLE

| COMMON NAME | CHEMICAL NAME | % COMP. | CAS # | FORM | QUANT. STORED (NOT USED) | QUANT. IN USE (USE-CLOSED) | MAXIMUM ALLOWABLE QUANTITY | LOCATION (STORAGE & USE) | HAZ CLASSES | JUSTIFICATION |
|---|---|---|---|---|---|---|---|---|---|---|
| SODIUM HYPOCHLORITE | SODIUM HYPOCHLORITE | 12.5% | 7681-52-9 | LIQUID | 0 GAL. | 500 GAL. | 500 GAL. | CHEM. ROOM | CORROSIVE LIQUID | MSDS |
| MURIATIC ACID | HYDROCHLORIC ACID | 25% | 7647-01-0 | LIQUID | 0 GAL. | 350 GAL. | 500 GAL. | CHEM. ROOM | CORROSIVE LIQUID | MSDS |
| CARBON DIOXIDE | CARBON DIOXIDE | 100% | 124-39-9 | LIQUID | 0 lbs. | 600 lbs. | 686 lbs. | CHEM. ROOM | CRYOGENIC | MSDS |

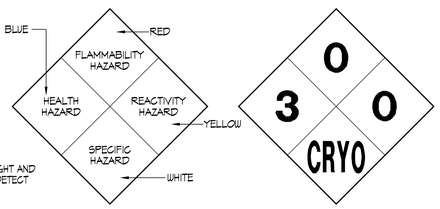
QUANTITIES OF CHEMICALS DO NOT EXCEED THE QUANTITIES LISTED IN CBC TABLES 307.1 (1) AND 307.1 (2).
FOR CARBON DIOXIDE GAS SEE TABLE 1.12.B(b) OF THE NFPA-1, 6,000 $FT^3$ ALLOWABLE OR 686 lbs. STORAGE PER CONTAINED AREA
PROVIDE HARD WIRED $CO_2$ DETECTOR 'ANALOX SENSOR TECHNOLOGY' MODEL #AP1 KIT SENSOR AND STROBE UNITS 120V HARD WIRED W/ STROBE LIGHT AND AUDIBLE ALARM. SENSOR MOUNTED 18 INCHES A.F.F. AND ALARM LEVEL BETWEEN 10-16 INCHES AND WITHIN VISIBLE EYESIGHT OF DOOR. TO BE SET TO DETECT CO2 GAS IN LEVELS IN EXCESS OF THE PEL. PROVIDE IN EACH ROOM CONTAINING $CO_2$.

### RATING EXPLANATION GUIDE

| RATING | HEALTH HAZARD | FLAMMABILITY HAZARD | REACTIVITY HAZARD | SPECIFIC HAZARD | |
|---|---|---|---|---|---|
| 4 | CAN BE LETHAL | EXTREMELY FLAMMABLE. IGNITES AT BELOW 73° F. | MAY EXPLODE AT NORMAL TEMPERATURES AND PRESSURES | OXIDIZER: | OX |
| 3 | CAN CAUSE SERIOUS OR PERMANENT INJURY | IGNITES AT ABOVE 73° F, BELOW 100° F. | MAY EXPLODE AT HIGH TEMPERATURES OR SHOCK | ACID: | ACID |
| 2 | CAN CAUSE TEMPORARY INCAPACITATION OR RESIDUAL INJURY | IGNITES AT ABOVE 100° F, BELOW 200° F. | VIOLENT CHEMICAL CHANGE AT HIGH TEMPERATURES OR PRESSURES | CORROSIVE: | COR |
| 1 | CAN CAUSE SIGNIFICANT IRRITATION | IGNITES AT ABOVE 200° F. | NORMALLY STABLE. HIGH TEMPERATURES MAKE UNSTABLE | ALKALI: | ALK |
| | | | | USE NO WATER: | -W- |
| 0 | NO HAZARD | WILL NOT BURN | STABLE | RADIATION HAZARDS: | ☢ |
| | | | | POLYMERIZES: | P |

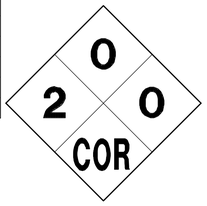
NOTES:

1. CONFIRM SIGNAGE WITH LOCAL FIRE MARSHALL AND/OR BUILDING CODES PRIOR TO INSTALLATION. SIGNS SHALL CONFORM TO NFPA 704.
2. SIGNS SHALL BE SIZES AND COLORS PER CODE MOUNTED AT +60" A.F.F. ON DOORS AT CHEMICAL ROOMS.

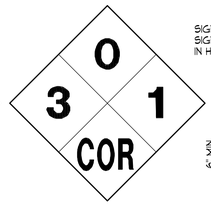



LEGEND

CARBON DIOXIDE

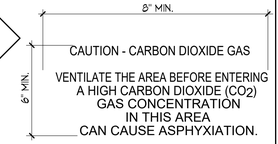



SODIUM HYPOCHLORITE




MURIATIC ACID

SIGN SHALL BE POSTED AT ROOM ENTRANCE. SIGN SHALL BE NOT LESS THAN 8" IN LENGTH AND 6" IN HEIGHT AND INDICATE:




## 8 HAZARDOUS INFORMATION SIGNAGE NO SCALE

PBK
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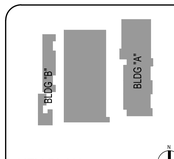
**CENTENNIAL HIGH SCHOOL AQUATICS CENTER**

PROJECT ADDRESS:
1820 RIMPAU AVE.
CORONA, CA 92881

DESIGN DEVELOPMENT

DSA APPL NO.: ##-###### DSA FILE NO.: ##-###




KEY PLAN NORTH: PLAN

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Architect
LICENSED ARCHITECT GREGORY S. PERRY No. C-30144 REN. 07/31/25 STATE OF CALIFORNIA
FOR PLAN CHECK ONLY

CLIENT
CORONA-NORCO UNIFIED SCHOOL DISTRICT

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| 04-28-23 | 220306 |

REVISIONS

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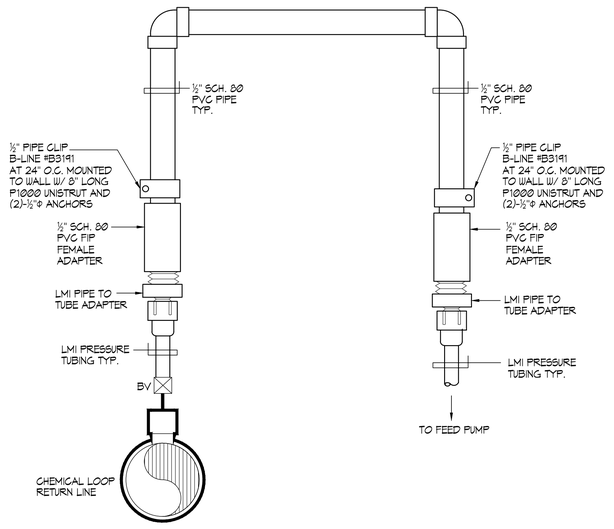
| | | |

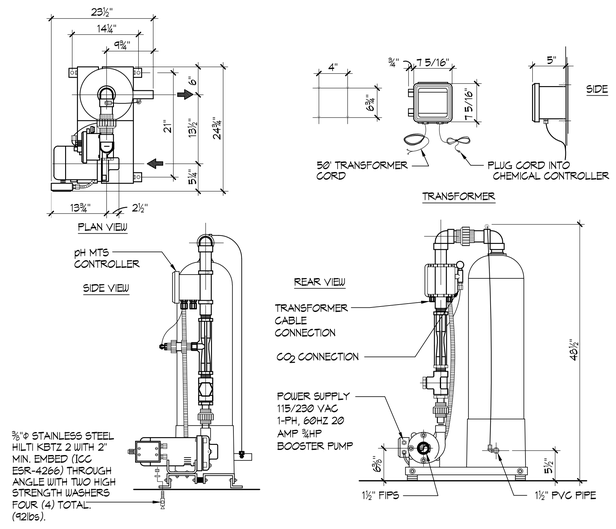
CONSTRUCTION DEVELOPMENT

DETAILS

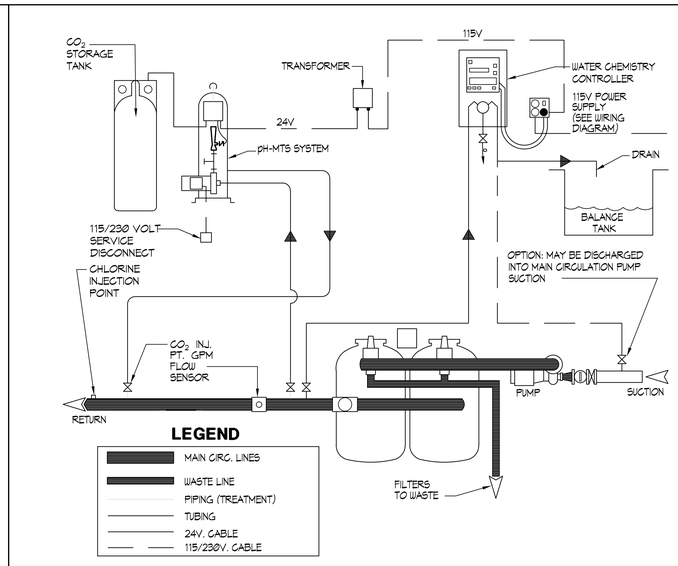
AQ.15



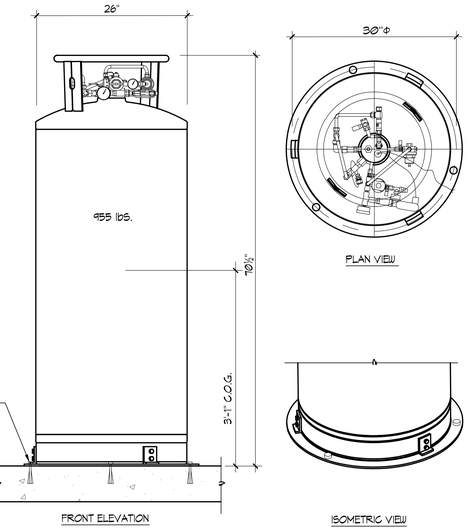

## 1 CHEMICAL FEED PIPING DETAIL NO SCALE



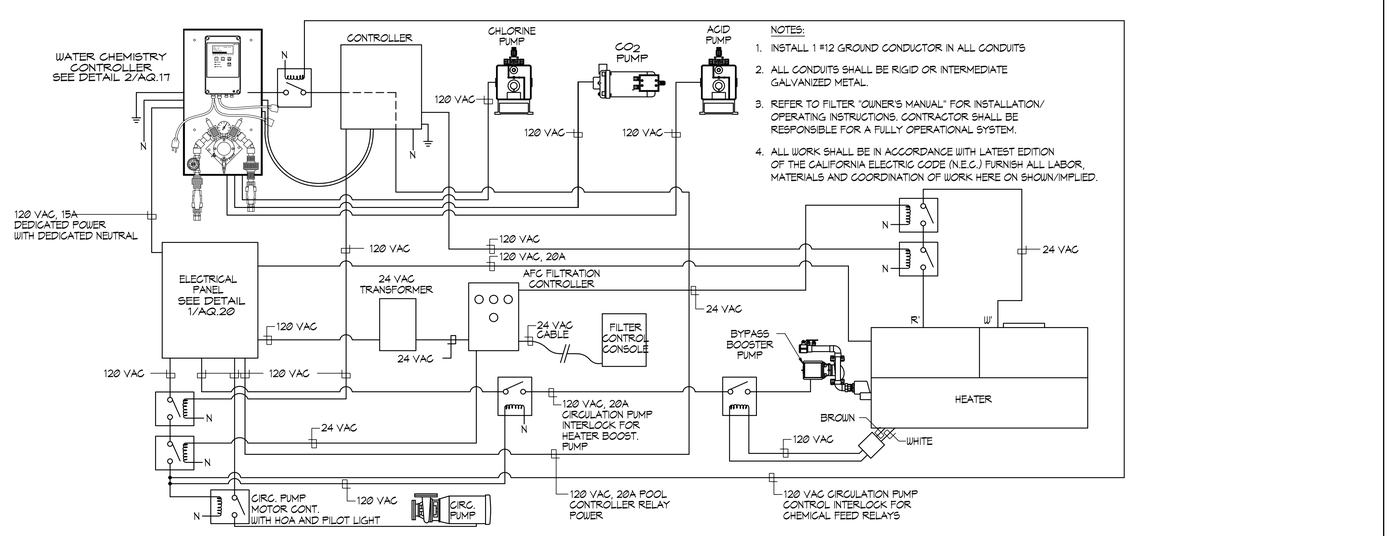

## 2 CARBON DIOXIDE pH MTS CONTROLLER NO SCALE



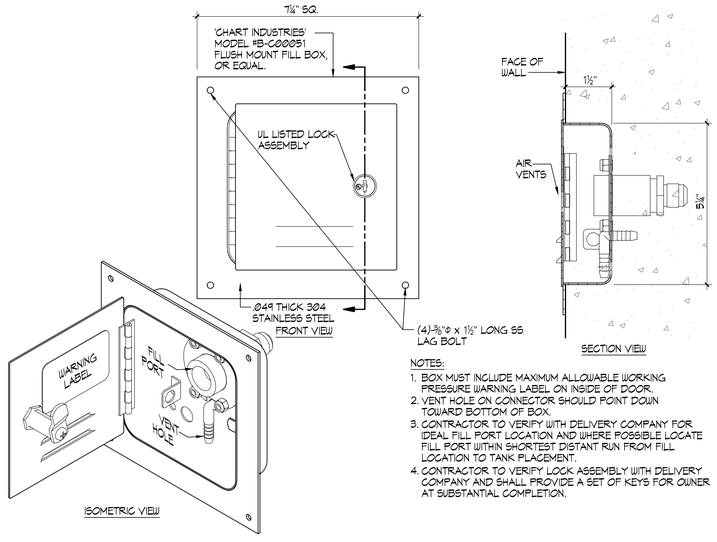

## 3 TYPICAL CARBON DIOXIDE pH-MTS INSTALLATION NO SCALE



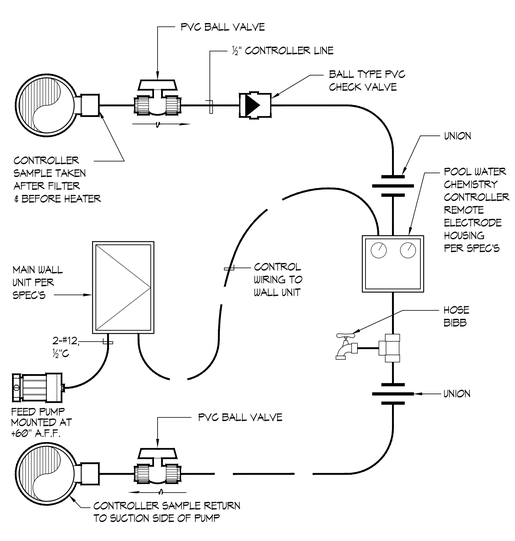

## 4 CO2 TANK ANCHORAGE DETAIL NO SCALE



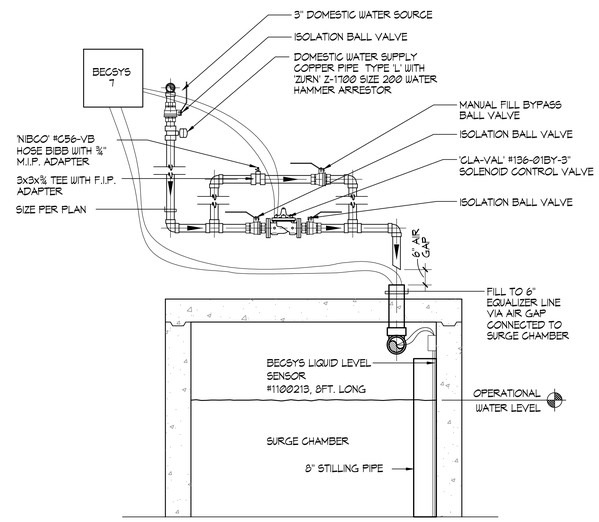

## 5 POOL MECHANICAL ELECTRICAL INTERCONNECTION DIAGRAM NO SCALE




## 6 C02 FLUSH MOUNT FILL BOX ½"=1"




## 7 WATER CHEMISTRY CONTROLLER SCHEMATIC NO SCALE




## 8 AUTOMATIC/MANUAL WATER MAKE-UP SCHEMATIC NO SCALE

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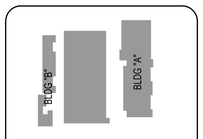
# CENTENNIAL HIGH SCHOOL AQUATICS CENTER

PROJECT ADDRESS:
1820 RIMPAU AVE.
CORONA, CA 92881

DESIGN DEVELOPMENT DSA APPL NO.: ##-##### DSA FILE NO.: ##-##

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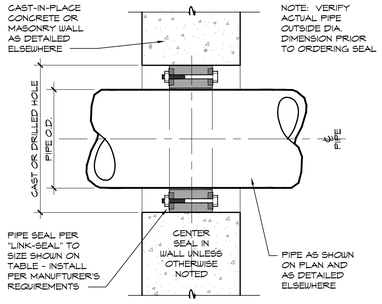
CONSTRUCTION DEVELOPMENT

DETAILS

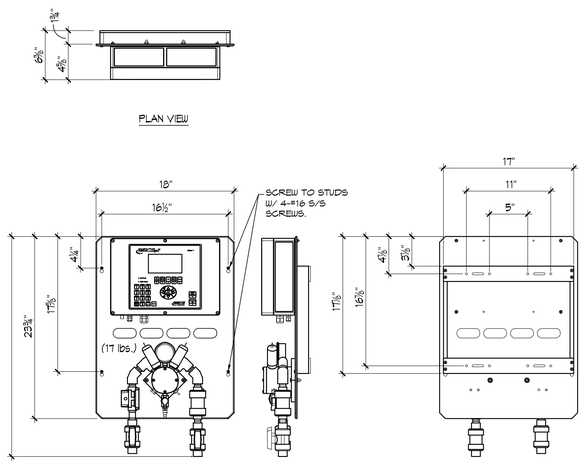
AQ.16




| PIPE SIZE (NOMINAL) | OUTSIDE DIAMETER (PIPE O.D.) | CAST-IN-PLACE OR DRILLED HOLE DIA. (I.D.) | LINK SEAL SIZE NO. | NO. OF LINKS PER SEAL |
|---|---|---|---|---|
| ½" | Ø.840 | 2.0 | LS-200 | 4 |
| ¾" | 1.050 | 2.5 | LS-275 | 5 |
| 1" | 1.315 | 3.0 | LS-300 | 4 |
| 1¼" | 1.660 | 3.0 | LS-275 | 7 |
| 1½" | 1.900 | 3.5 | LS-300 | 5 |
| 2" | 2.375 | 4.0 | LS-300 | 6 |
| 2½" | 2.875 | 4.0 | LS-200 | 9 |
| 3" | 3.50 | 5.0 | LS-300 | 8 |
| 3½" | 4.00 | 6.0 | LS-325 | 5 |
| 4" | 4.50 | 6.0 | LS-300 | 10 |
| 5" | 5.563 | 8.0 | LS-425 | 6 |
| 6" | 6.625 | 10.0 | LS-475 | 10 |
| 8" | 8.625 | 12.0 | LS-475 | 12 |
| 10" | 10.75 | 14.0 | LS-400 | 10 |
| 12" | 12.75 | 16.0 | LS-400 | 12 |
| 14" | 14.00 | 16.0 | LS-325 | 15 |
| 16" | 16.00 | 18.0 | LS-325 | 17 |
| 18" | 18.00 | 23.0 | LS-500 | 16 |
| 20" | 20.00 | 25.0 | LS-500 | 18 |
| 22" | 22.00 | 27.0 | LS-500 | 19 |
| 24" | 24.00 | 29.0 | LS-500 | 21 |
| 26" | 26.00 | 31.0 | LS-500 | 23 |
| 28" | 28.00 | 33.0 | LS-500 | 24 |
| 30" | 30.00 | 35.0 | LS-500 | 26 |
| 32" | 32.00 | 37.0 | LS-500 | 28 |
| 34" | 34.00 | 39.0 | LS-500 | 29 |
| 36" | 36.00 | 41.0 | LS-500 | 30 |

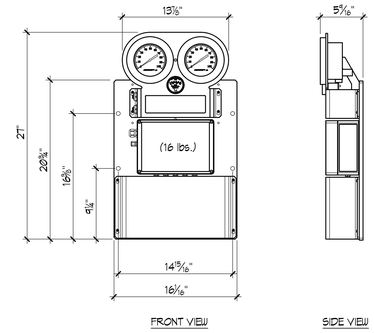
## 1 PIPE SEAL TO WALL / FLOOR

NO SCALE



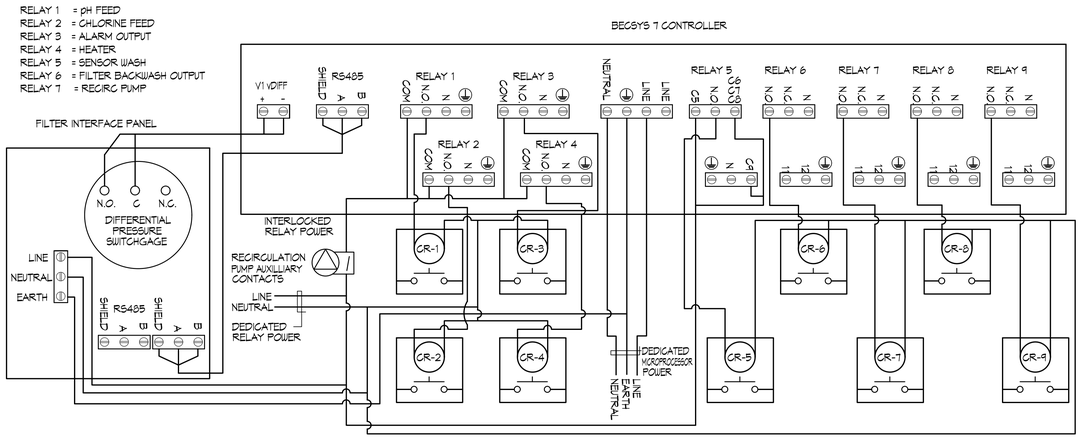

## 2 BECSYS 7 WATER CHEMISTRY CONTROLLER

1½"=1'-0"



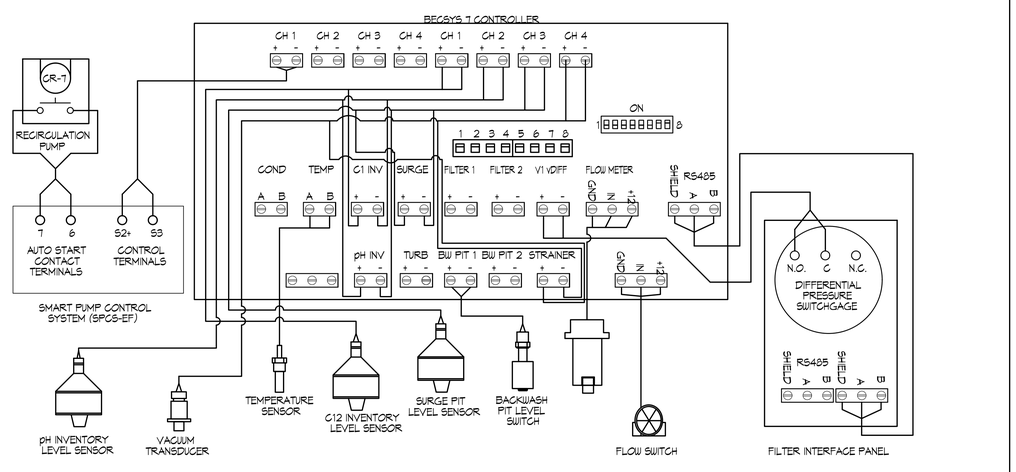

## 3 BECSYS FILTER INTERFACE SYSTEM

1½"=1'-0"




## 4 BECSYS 7 CONTROLLER

NO SCALE




## 5 BECSYS 7 CONTROLLER

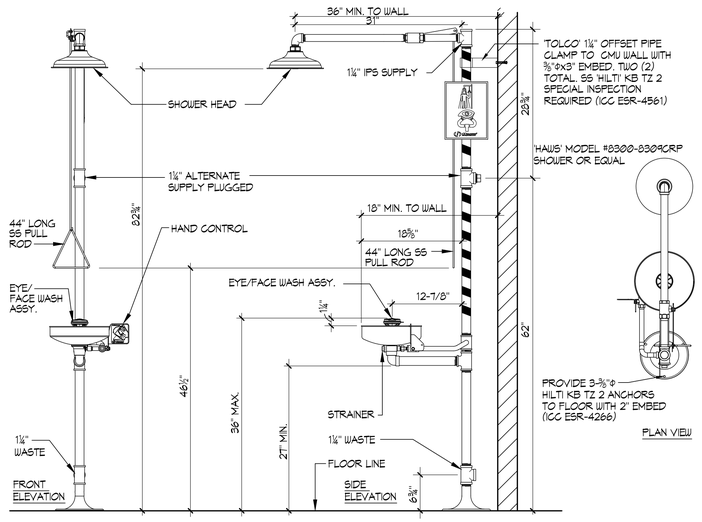
NO SCALE

| DESIGNATION: 'SP' | VOLTAGE: 120/208V 3PH 4W | | | LOCATION: MECHANICAL EQUIP. RM. | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 200AMP ☒MAIN BREAKER ☐MAIN LUG | | | MINIMUM DEVICE ☒10,000 ☐14,000 | | | PANELBOARD KEY NOTES: | | | |
| | ☐RECESSED ☒SURFACE | | | A.I.C. RATING | | | ① | ○ | ○ | ○ |

| DESCRIPTION: | C/B | CIR NO. | φ A | φ B | φ C | CIR NO. | C/B | DESCRIPTION: |
|---|---|---|---|---|---|---|---|---|
| SP UNDERWATER LIGHTS | 1 20 | 1 | 696 1200 | | | 2 | 20/1 | SP FILTER AFC |
| | | 3 | | 696 1200 | | 4 | | SP FILTER PRESS. AMP. |
| | | 5 | | | 696 1200 | 6 | | SP WATER CHEM. CONTROL |
| | | 7 | 696 360 | | | 8 | | SP WATER CHEM. RELAY |
| | | 9 | | 696 360 | | 10 | | SP CIRC. PUMP INTERCONN. |
| | | 11 | | | 696 360 | 12 | | SP CIRC. PUMP MTR. CONT. |
| | | 13 | 696 1440 | | | 14 | | SP HEATER |
| SP DECK OUTLET RECEPT. | | 15 | | 720 1440 | | 16 | | SP HEATER |
| | | 17 | | | 720 720 | 18 | | SP FILTER PRIORITY VALVE |
| | | 19 | 720 980 | | | 20 | | SP CHLORINE FEED |
| SP SCOREBOARD | | 21 | | 720 1056 | | 22 | 20/2 | SP CO2 FEED |
| | | 23 | | | 720 1056 | 24 | | 1 HP |
| | | 25 | 720 720 | | | 26 | 20/1 | SPARES ① |
| | | 27 | | 720 720 | | 28 | | |
| | | 29 | | | 720 720 | 30 | | SPACE |
| | | 31 | 720 | | | 32 | | |
| | | 33 | | 720 | | 34 | | |
| | | 35 | | | 720 | 36 | | |
| | | 37 | 720 | | | 38 | | |
| | | 39 | | 720 | | 40 | | |
| SPACE | | 41 | | | | 42 | | |
| TOTAL PER PHASE | | | 9,648 | 9,768 | 8,328 | | | 11,190 ÷ 120v = 93 AMPS |
| + 25% L.C.L. | | | 1,542 | 1,368 | 1,548 | | | |
| TOTAL | | | 11,190 | 11,136 | 9,876 | | | |

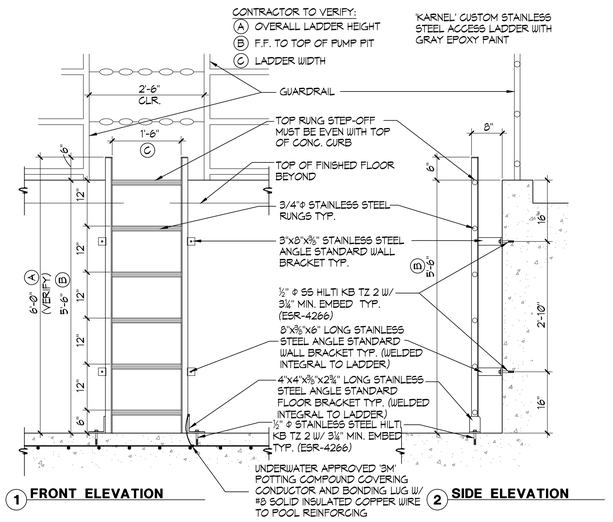
① GFI CIRCUIT SP = SWIMMING POOL

## 6 PANEL SCHEDULE




## 7 TYPICAL EYEWASH/SHOWER DETAIL

NO SCALE




## 8 PUMP PIT / BACKWASH PIT ACCESS LADDER

¾"=1'-0"

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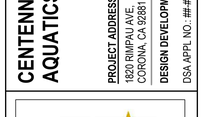
# CENTENNIAL HIGH SCHOOL AQUATICS CENTER

PROJECT ADDRESS:
1820 RIMPAU AVE.
CORONA, CA 92881

DESIGN DEVELOPMENT DSA FILE NO.: ##-##
DSA APPL NO.: ##-###### DSA FILE NO.: ##-##

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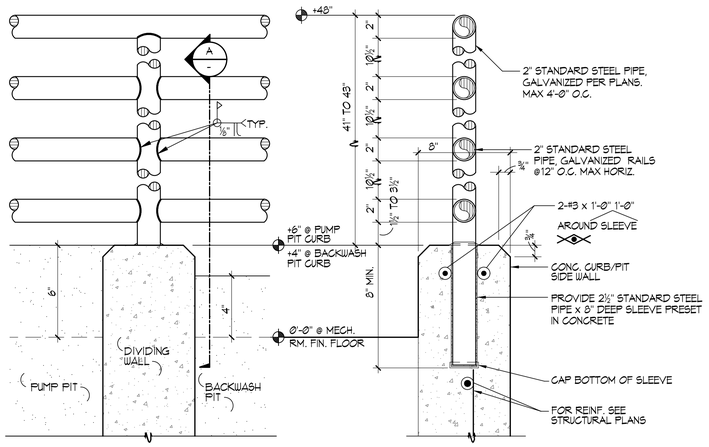
CONSTRUCTION DEVELOPMENT

DETAILS

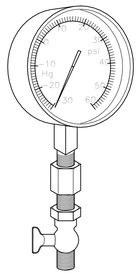
AQ.17




**ELEVATION AT PIT DIVIDING WALL**

**A GUARD RAIL SECTION**

## 1 PIT GUARD RAIL 3"=1'-0"



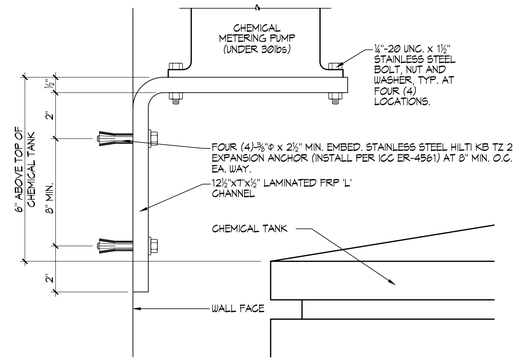
4½" S/S CASED LIQUID FILLED PRESSURE GAUGES SHALL HAVE A DIAL RANGE PRESSURE OF 60psi AND VACUUM RANGE OF 30" Hg THE MINOR GRADUATIONS SHALL HAVE A PRESSURE OF 2psi AND VACUUM OF 2" Hg, ¼" NPT PER SPECIFICATIONS.

SNUBBER

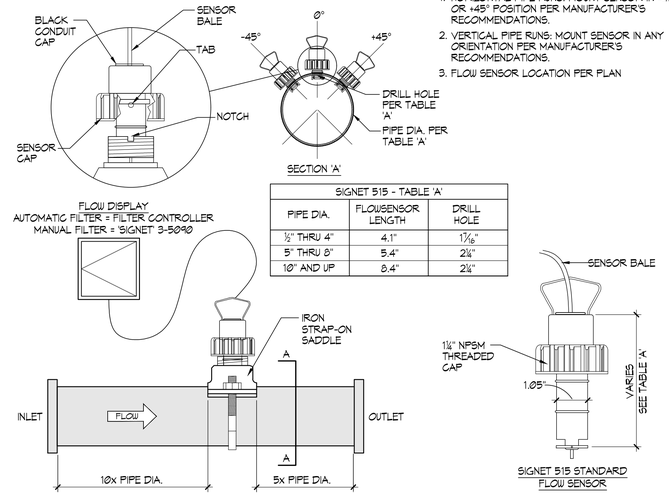
'PETCOCK' MODEL #A10, BRASS

NOTES:
1. PRESSURE GAUGES SHALL BE INSTALLED BY MEANS OF DRILLING AND TAPPING PIPE TO BE MONITORED. THE GAUGE SHALL THEN BE THREADED INTO THE PIPE. PROVIDE WITH SNUBBER AND PET COCK.
2. GAUGE MAY BE USED WHEREVER CRUCIAL VACUUM OR PRESSURE READINGS ARE ESSENTIAL.

## 2 CHEMICAL PUMP SHELF 6"=1'-0"

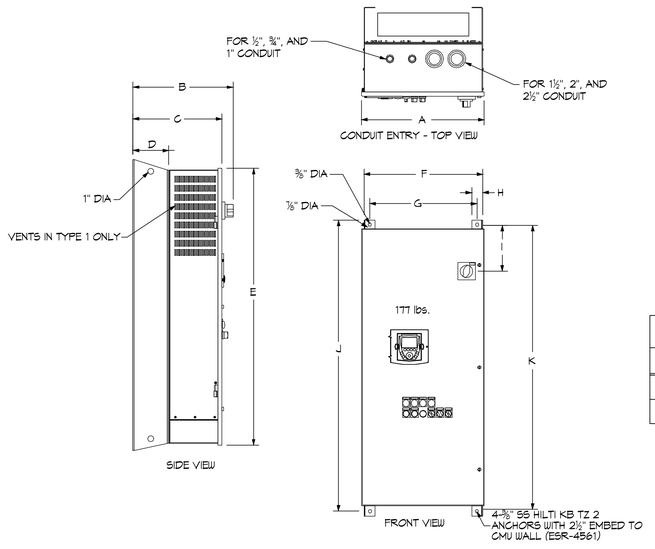


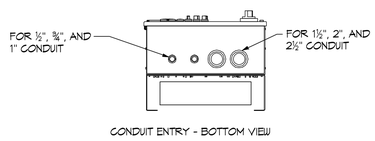

## 3 SIGNET FLOWMETER NO SCALE




| SIGNET 515 - TABLE 'A' | | |
|---|---|---|
| PIPE DIA. | FLOW SENSOR LENGTH | DRILL HOLE |
| ½" THRU 4" | 4.1" | 17/16 |
| 5" THRU 8" | 5.4" | 2¼" |
| 10" AND UP | 8.4" | 2¼" |

## 4 PRESSURE/VACUUM GAUGE 6"=1'-0"

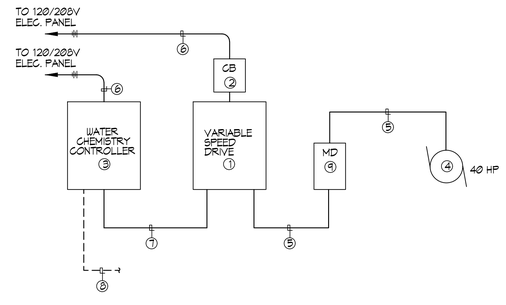



NOTE:
PROVIDE AT LEAST 3" OF MOUNTING CLEARANCE ON EACH SIDE OF THE DRIVE CONTROLLER.
PROVIDE AT LEAST 6" OF MOUNTING CLEARANCE ON EACH TOP AND BOTTOM OF THE DRIVE CONTROLLER

| 'SPCS' EKO-FLEX SIZING TABLE | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HP | HP | WEIGHT | DIMENSIONS | | | | | | | | | | |
| 460V | 208/230V | LBS | A | B | C | D | E | F | G | H | I | J | K |
| 30 TO 50 | 15 TO 25 | 177 | 20.65" | 16.83" | 14.83" | 6.00" | 46.64" | 20.00" | 18.04" | 1.86" | 7.75" | 49.02" | 47.83" |

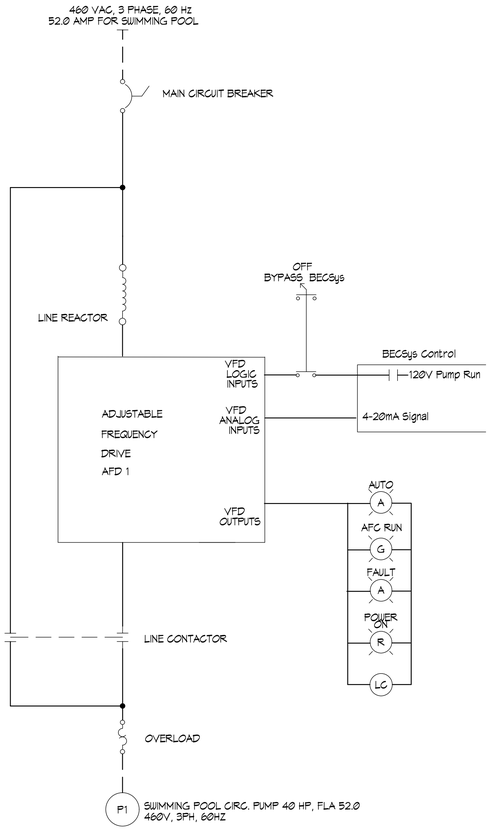
## 5 TYPICAL WIRING SCHEMATIC AT SPCS UNIT NO SCALE




NOTES:
① VARIABLE SPEED DRIVE MOTOR CONTROL CABINET, SEE PLANS AND SPECIFICATIONS.
② ENCLOSED CIRCUIT BREAKER, SEE SINGLE LINE DIAGRAM.
③ WATER CHEMISTRY/FILTER CONTROL UNIT, SEE PLANS.
④ CONNECT TO CIRCULATION PUMP MOTOR, SEE PLANS.
⑤ MOTOR FEEDERS, SEESINGLE LINE DIAGRAM.
⑥ 120 VOLT BRANCH CIRCUITS, SEE PLANS.
⑦ ¾"C, (4) #12, (1) #12 GND. (120 VOLT CONTROL WIRING)
⑧ 24 VOLT SIGNAL AND SENSOR CABLING, SEE SPECIFICATIONS AND INSTALLATION INSTRUCTIONS FOR ADDITIONAL REQUIREMENTS.
⑨ MOTOR DISCONNECT, SEE PLANS.

## 6 'SPCS' EKO-FLEX ENCLOSURE DIMENSIONS NO SCALE

## 7 'SPCS' EKO-FLEX SINGLE LINE DIAGRAM NO SCALE

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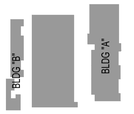


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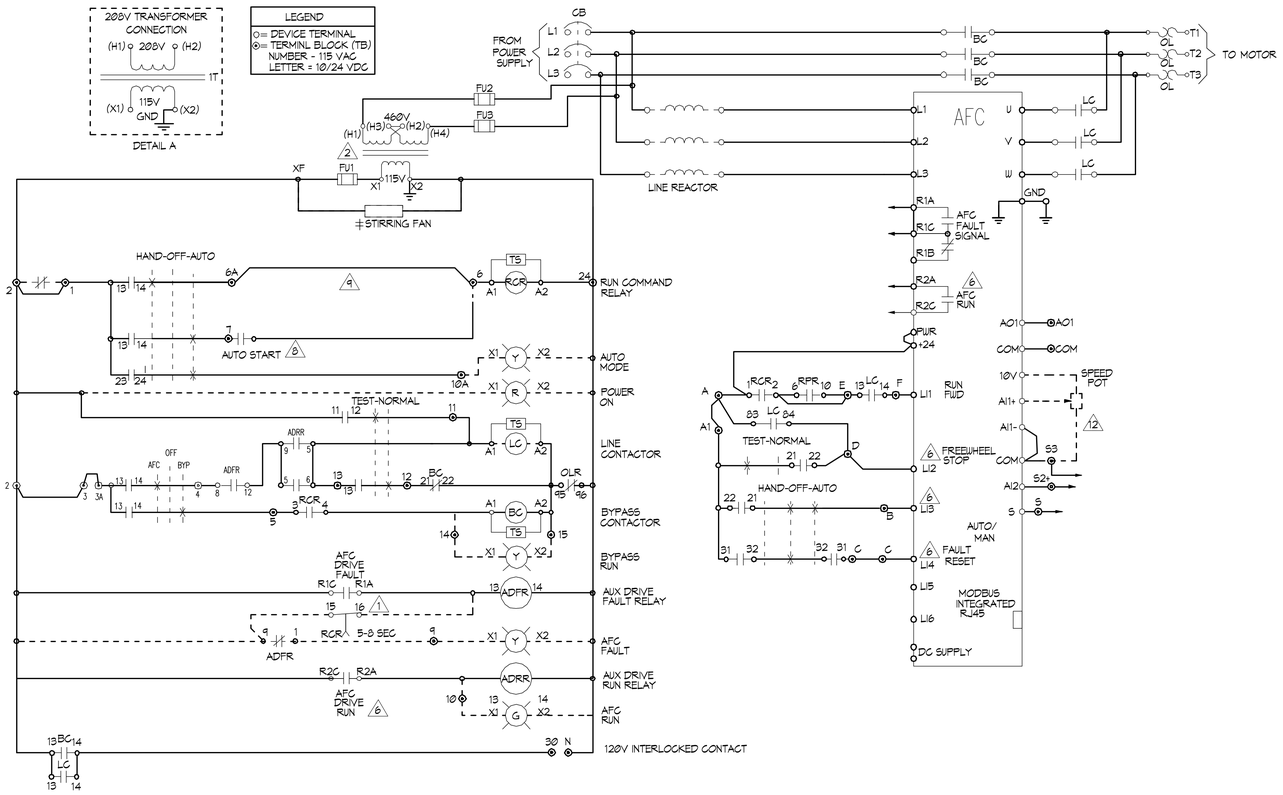
CONSTRUCTION DEVELOPMENT

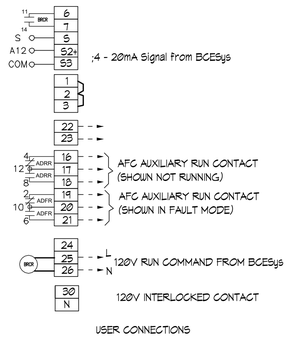
**DETAILS**

**AQ.18**




| EKO-FLEX ATV61 FACTORY CONFIGURATION | | | | | |
|---|---|---|---|---|---|
| MENU | No | SUB-MENU | DESCRIPTION | CODE | ADJ. |
| SIM | 1.1 | ———— | 2/3 WIRE CONTROL | tCC | 2C |
| SIM | 1.1 | ———— | PUMPS FANS | CFG | PnF |
| SIM | 1.1 | ———— | STANDARD MOT. FREQ (HZ) | bFr | 60 |
| SIM | 1.1 | ———— | ACCELERATION (SEC) | ACC | 10 |
| SIM | 1.1 | ———— | DECELERATION (SEC) | dEC | 10 |
| SIM | 1.1 | ———— | LOW SPEED (HZ) | LSP | 3 |
| SIM | 1.3 | ———— | SWITCHING FREQ. (HZ) | SCr | 8 |
| I - O | 1.5 | ———— | 2 WIRE TYPE | tCt | LEL |
| I - O | 1.5 | AI2 CONFIG. | AI2 MIN. VALUE (mA) | CrI2 | 4 |
| I - O | 1.5 | R2 CONFIG. | R2 ASSIGN - DRIVE RUNNING | r2C | run |
| | | | | | |
| CtL | 1.6 | ———— | REF. 1 CHAN | FR1 | HMI |
| CtL | 1.6 | ———— | | FR1 | AI1 |
| | | | | | |
| CtL | 1.6 | ———— | PROFILE | CHCF | SEP |
| FUn | 1.7 | STOP CONFIG. | FREEWHEEL STOP ASSIGN | nST | LI2 |
| FUn | 1.7 | REFERENCE SWITCH | REF. 1B SWITCHING | rCb | LI3 |
| FUn | 1.7 | REFERENCE SWITCH | REF. 1B CHAN | Fr1b | AI2 |
| FLt | 1.8 | FAULT RESET | FAULT RESET | rSF | LI4 |
| FLt | 1.8 | CATCH ON THE FLY | CATCH ON THE FLY | FLR | YES |
| FLt | 1.8 | OUTPUT PHASE LOSS | OUTPHASE LOSS | PDL | NO |
| COM | 1.9 | FORCED LOCAL | FORCED LOCAL ASSIGN. | FLt | LI4 |
| | | | | | |

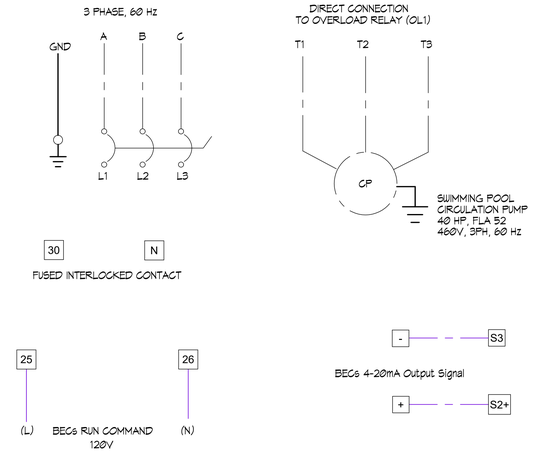
| DESCRIPTION | TYPE 1 | TYPE 12K | TYPE 3R |
|---|---|---|---|
| ⧺ STIRRING FANS | 10-100 HP 460V, 7.5-50HP 208/230V | 10-100 HP 460V, 7.5-50HP 208/230V | NA |
| ⧺ VENTILIATION FAN | NA | NA | ALL HP |
| ⧺ SPACE HEATER | NA | NA | ALL HP |



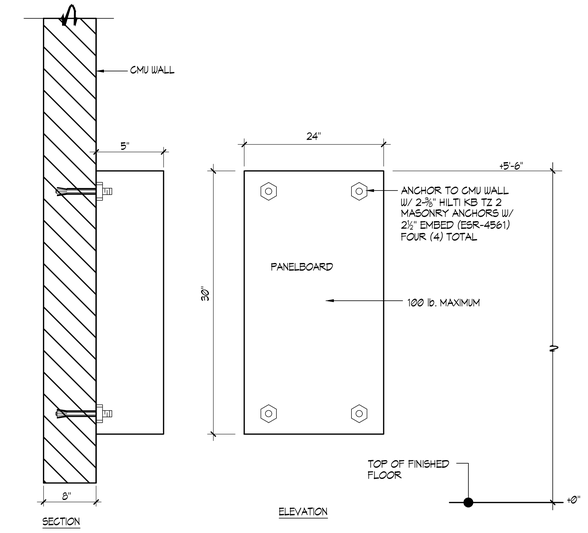

NOTES:

1. RCR TIMED CONTACT USED ONLY IF LINE CONTACTOR IS SUPPLIED
2. CONTROL TRANSFORMER SHOWN FOR 460V PRIMARY. FOR 230V PRIMARY, JUMPER H2-H3 IS
6. PROGRAMMED I/O SEE CONTROLLER FUNCTION CONFIGURATION TABLE.
8. BECs RUN COMMAND RELAY (BRCR)
9. JUMPER USED WHEN START-STOP PUSH BUTTONS NOT USED.

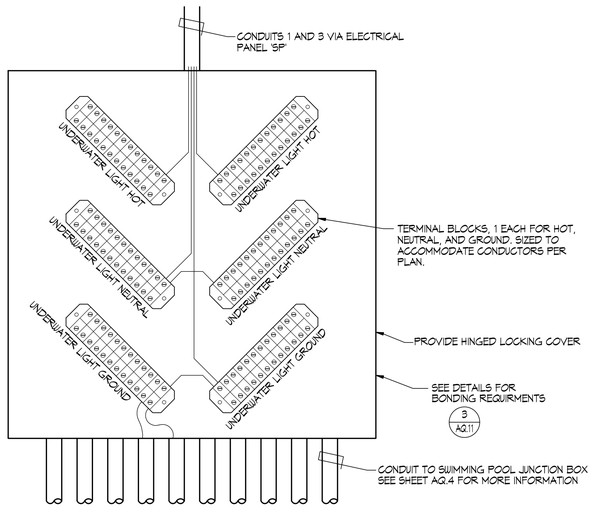
## 1 'SPCS' EKO-FLEX VARIABLE FREQUENCY DRIVE SYSTEM SCHEMATIC NO SCALE




## 2 'SPCS' EKO-FLEX FIELD CONNECTION DIAGRAM NO SCALE




## 3 PANELBOARD MOUNTING DETAIL NO SCALE




## 4 UNDERWATER LIGHT CONTACTOR PANEL NO SCALE

PBK
ARCHITECT PBK Architects, Inc.
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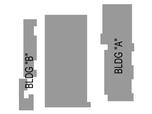
8163 Rochester Avenue, Suite 100
Rancho Cucamonga
California 91730
P 909-987-0909

**CENTENNIAL HIGH SCHOOL AQUATICS CENTER**

PROJECT ADDRESS:
1820 RIMPAU AVE.
CORONA, CA 92881

DESIGN DEVELOPMENT DSA FILE NO.: ##-##
DSA APPL NO.: ##-##### DSA FILE NO.: ##-##






KEY PLAN NORTH: PLAN

Consultant
AQUATIC DESIGN GROUP
2226 Faraday Ave. Carlsbad, CA 92008
AquaticDesignGroup.com
760.438.8400

Architect
LICENSED ARCHITECT GREGORY S. PERRY REN. 07/31/25 STATE OF CALIFORNIA
FOR PLAN CHECK ONLY

CLIENT
CORONA-NORCO UNIFIED SCHOOL DISTRICT

| DATE | PROJECT NUMBER |
|---|---|
| 04-28-23 | 220306 |

REVISIONS

| No. | Description | Date |
|---|---|---|
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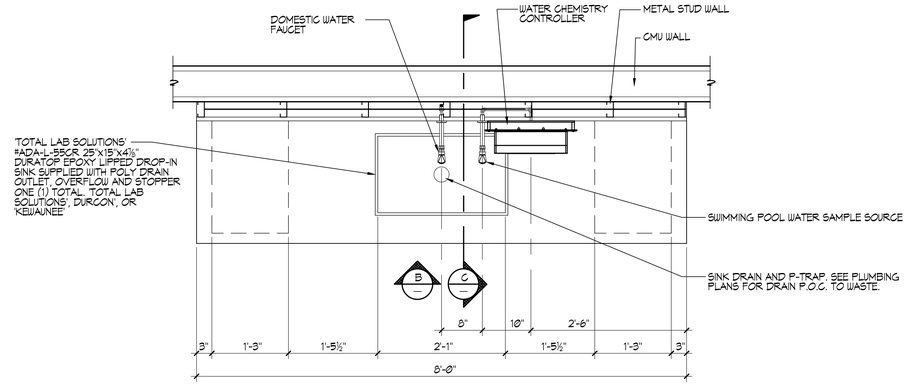
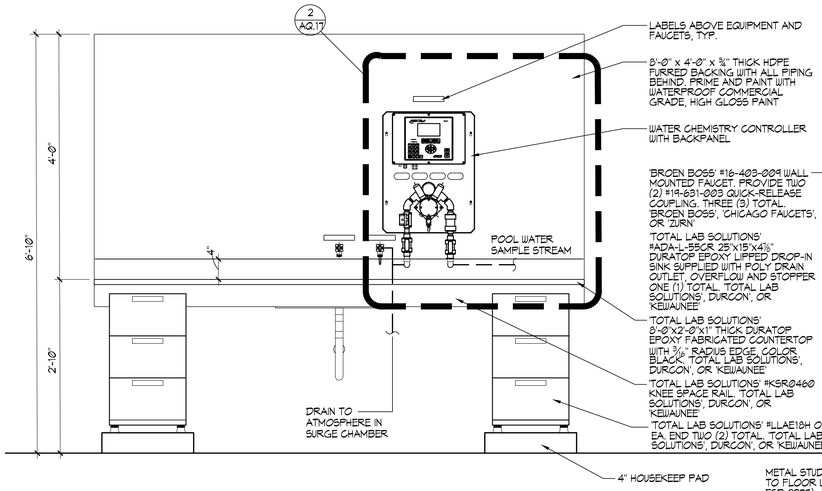
CONSTRUCTION DEVELOPMENT

DETAILS

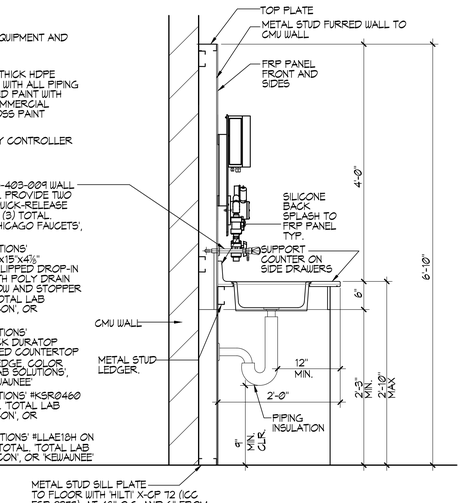
AQ.19




A **PLAN VIEW**



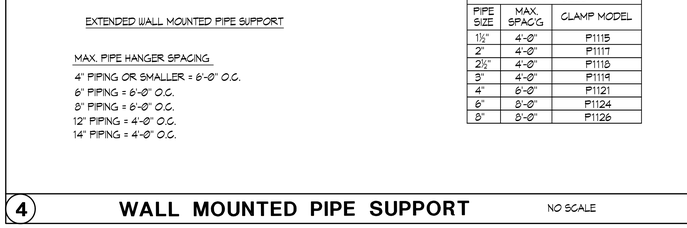

B **FRONT ELEVATION**




C **SIDE SECTION**

# 1 POOL OPERATOR WORKSTATION DESK DETAIL

1"=1'-0"




HANGER/BRACE PERPENDICULAR

HANGER/BRACE LONGITUDINAL

HANGER ROD SIZES/TABLE

⅜"ø AT 3" PIPING MAX. ROD LENGTH = 158" MAX PER OPM PG. C1.22
⅜"ø AT 4" PIPING MAX. ROD LENGTH = 158" MAX PER OPM PG. C1.34
¾"ø AT 6" PIPING MAX. ROD LENGTH = 158" MAX PER OPM PG. C1.44
¾"ø AT 8" PIPING MAX. ROD LENGTH = 158" MAX PER OPM PG. C1.44
¾"ø AT 12" PIPING MAX. ROD LENGTH = 158" MAX PER OPM PG. C1.44
¾"ø AT 14" PIPING MAX. ROD LENGTH = 158" MAX PER OPM PG. C1.44

MAX. PIPE HANGER SPACING

4" PIPING OR SMALLER = 6'-0" O.C.
6" PIPING = 6'-0" O.C.
8" PIPING = 6'-0" O.C.
10" PIPING = 6'-0" O.C.

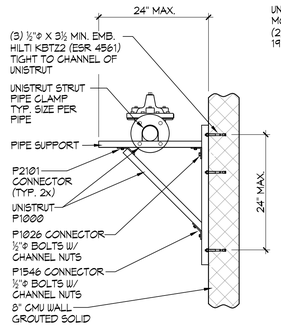
NOTES:

1. REFER TO OSHPD (OPM #0043-13) FOR PIPE HANGER HARDWARE & INSTALLATION. INSTALLATION SHALL SATISFY ANCHORAGE REQUIREMENTS OF ACI 318 CHAPTER 17.
2. PROVIDE BRACING FOR EACH PIPE HANGER IN TWO DIRECTIONS AT THE FOLLOWING CONDITIONS.
   - AT EACH CHANGE IN PIPE RUN DIRECTION
   - MID LENGTH OF PIPE RUN
   - SPACING NOT TO EXCEED 12'-0" O.C.

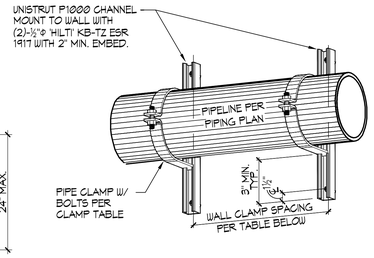
   1⅝"x1⅝"x12GA SINGLE STRUT (5'-0" LENGTH MAX)
   1⅝"x1⅝"x12GA DOUBLE STRUT (14'-6" LENGTH MAX)
3. ALL HARDWARE SHALL BE STAINLESS STEEL OR GALVANIZED SEE SPECIFICATION FOR ADDITIONAL INFORMATION.
4. FOR COPPER TUBING USE COPPER PLATED OR PAINTED B3104CT, FELT LINED B3100F, OR PLASTIC COATED B3100C.
5. REFER TO MR.1 FOR PIPE HANGER LOCATIONS.
6. PROVIDE ROD STIFFENER WHEN TRANSVERSE OR LONGITUDINAL BRACING IS USED AND ROD LENGTHS EXCEEDS 3'1", SEE OPM DESIGN

# 2 'UNISTRUT' PIPING HANGER / SUPPORT DETAILS

NO SCALE




EXTENDED WALL MOUNTED PIPE SUPPORT




WALL MOUNTED PIPE SUPPORT

MAX. PIPE HANGER SPACING

4" PIPING OR SMALLER = 6'-0" O.C.
6" PIPING = 6'-0" O.C.
8" PIPING = 6'-0" O.C.
12" PIPING = 4'-0" O.C.
14" PIPING = 4'-0" O.C.

| CLAMP SIZES | | |
|---|---|---|
| PIPE SIZE | MAX. SPAC'G | CLAMP MODEL |
| 1½" | 4'-0" | P1115 |
| 2" | 4'-0" | P1117 |
| 2½" | 4'-0" | P1118 |
| 3" | 4'-0" | P1119 |
| 4" | 6'-0" | P1121 |
| 6" | 8'-0" | P1124 |
| 8" | 8'-0" | P1126 |

# 4 WALL MOUNTED PIPE SUPPORT

NO SCALE

# 3 PIPE PENETRATION THRU 1-HR OR 2-HR WALL DETAIL

NO SCALE

SYSTEM NO. C-AJ-2216




✱ BEARING THE UL CLASSIFICATION MARKING

++ BEARING THE UL LISTING MARK

① FLOOR OR WALL ASSEMBLY - MIN. 2½" THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 pcf) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS. FLOOR MAY ALSO BE CONSTRUCTED OF ANY MIN. 6" THICK UL CLASSIFIED HOLLOW CORE PRECAST CONCRETE UNITS. MAX. DIA. OF OPENING IS 5".

② THROUGH PENETRANTS-ONE NONMETALLIC PIPE OR CONDUIT TO BE CENTERED WITHIN OPENING WITH A NOM ¼" ANNULAR SPACE BETWEEN PIPE OR CONDUIT AND PERIPHERY OF OPENING. PIPE OR CONDUIT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF THE FLOOR OR WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF NONMETALLIC PIPES OR CONDUITS MAY BE USED:

A. POLYVINYL CHLORIDE PIPE (PVC) - NOM. 4" DIAM. (OR SMALLER) SCHEDULE 40 SOLID CORE OR CELLULAR CORE PVC PIPE FOR USE IN CLOSED (PROCESS OR SUPPLY) OR VENTED (DRAIN, WASTE OR VENT) PIPING SYSTEMS.
B. RIDID NONMETALLIC CONDUIT++ NOM 4" DIAM. (OR SMALLER) SCHEDULE 40 PVC CONDUIT INSTALLED IN ACCORDANCE WITH ARTICLE 347 OF THE NATIONAL ELECTRICAL CODE (NFPA NO. 70).
C. CHLORINATED POLYVINYL CHLORIDE (CPVC) PIPE - NOM. 4" DIAM. (OR SMALLER) SDR13.5 CPVC PIPE FOR USE IN CLOSED (PROCESS OR SUPPLY) PIPING SYSTEMS.
D. ACRYLONITRATE BUTADIENE STYRENE (ABS) PIPE - NOM. 4" DIAM. (OR SMALLER) SCHEDULE 40 SOLID CORE OR CELLULAR CORE ABS PIPE FOR USE IN CLOSED (PROCESS OR SUPPLY) OR VENTED (DRAIN, WASTE OR VENT) PIPING SYSTEM.
E. FIRE RETARDANT POLYPROPYLENE (FRPP) PIPE - NOM 4" DIAM. (OR SMALLER) SCHEDULE 40 FRPP PIPE FOR USE IN CLOSED (PROCESS OR SUPPLY) OR VENTED (DRAIN, WASTE OR VENT) PIPING SYSTEMS.
F. POLYVINYLIDENE FLUORIDE (PVDF) PIPE - NOM 2" DIAM. (OR SMALLER) SDR 11, OR NOM 4" (OR SMALLER) SDR 32.5 PVDF PIPE FOR USE IN CLOSED (PROCESS OR SUPPLY) OR VENTED (DRAIN, WASTE OR VENT) PIPING SYSTEMS.

③ FIRESTOP SYSTEM - THE DETAILS OF THE FIRESTOP SYSTEM SHALL BE AS FOLLOWS:

A. FILL, VOID OR CAVITY MATERIALS - *CAULK, SEALANT OR PUTTY - MIN ½" THICKNESS OF CAULK OR PUTTY APPLIED WITHIN ANNULAR SPACE, FLUSH WITH BOTTOM OF FLOOR OR BOTH SIDES OF WALL.
   3M COMPANY - CP 25WB + CAULK, FB-3000 WT SEALANT, MP + STIX PUTTY, IC 15WB + CAULK OR FIREDAM 150 + CAULK (NOTE: W RATING APPLIES ONLY WHEN FB-3000 WT IS USED. CP 25WB + AND FIREDAM 150+ NOT SUITABLE FOR USE WITH CPVC PIPES.)

A1. FILL, VOID OR CAVITY MATERIALS - SEALANT (OPTIONAL, NOT SHOWN) - FOR FLOOR ASSEMBLIES, AN ADDITIONAL MIN ½" THICKNESS OF SEALANT MAY BE APPLIED WITHIN THE ANNULAR SPACE FLUSH WITH TOP SURFACE OF FLOOR.
   3M COMPANY - FB-1000 NS OR FB-3000 WT SEALANT (NOTE: W RATING APPLIES WHEN FB-3000 WT OR FB-1000 NS IS USED.)

B. FILL, VOID OR CAVITY MATERIALS - *WRAP STRIP - NOM ¼" THICK INTUMESCENT MATERIAL SUPPLIED IN 2" WIDE STRIPS. WRAP STRIP TIGHTLY WRAPPED AROUND NONMETALLIC PIPE WITH CONTINUOUS LAYERS AND BUTTED TIGHTLY AGAINST THE BOTTOM SURFACE OF THE FLOOR OR BOTH SURFACES OF THE WALL. THE MIN. NUMBER OF LAYERS REQUIRED IS DEPENDENT UPON THE NOM. DIAM. OF THE PIPE. FOR NOM 2" DIAM. (AND SMALLER) PIPES, TWO LAYERS ARE REQUIRED. FOR NOM 2½" AND 3" DIAM. PIPES, THREE LAYERS ARE REQUIRED. FOR NOM 3½" AND 4" DIAM. PIPES, FOUR LAYERS ARE REQUIRED. WRAP STRIP LAYERS TEMPORARILY HELD IN POSITION USING ALUMINUM FOIL TAPE, STEEL WIRE TIE, OR EQUIVALENT.

C. STEEL COLLAR - NOM 2" DEEP COLLARS WITH 1¼" WIDE BY 2" LONG ANCHOR TABS AND MIN. ½" LONG TABS TO RETAIN WRAP STRIP LAYERS. COILS OF PRECUT 0.016" THICK (26 GAUGE) GALV SHEET STEEL AVAILABLE FROM WRAP STRIP MANUFACTURER. AS AN ALTERNATE, COLLAR MAY BE FIELD-FABRICATED FROM MIN. 0.016" THICK (26 GAUGE) GALV SHEET STEEL IN ACCORDANCE WITH INSTRUCTION SHEET SUPPLIED BY WRAP STRIP MANUFACTURER. STEEL COLLAR, WITH ANCHOR TABS BENT 90 DEG, WRAPPED TIGHTLY AROUND WRAP STRIP LAYERS WITH MIN. 1" OVERLAP AT SEAM. ANCHOR TABS TO BE PRESSED TIGHTLY AGAINST FLOOR OR WALL SURFACE(S), AND COLLAR TO BE COMPRESSED AROUND WRAP STRIP LAYERS USING A MIN. ½" WIDE BY 0.028" THICK STAINLESS STEEL BAND CLAMP AT THE COLLAR MIDHEIGHT. COLLAR TO BE SECURED TO FLOOR OR WALL SURFACE(S) WITH ¼" DIAM. BY MIN. 1½" LONG STEEL EXPANSION BOLTS, OR EQUIVALENT, IN CONJUNCTION WITH STEEL NUTS AND MIN. 1¼" DIAM. STEEL FENDER WASHERS. MIN. OF TWO, THREE OR FOUR ANCHOR BOLTS, SYMMETRICALLY LOCATED, FOR NOM 2" DIAM. (AND SMALLER), NOM 3" DIAM. (AND SMALLER) AND NOM 4" DIAM. (AND SMALLER), PIPES, RESPECTIVELY.

PBK

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RANCHO CUCAMONGA
8163 Rochester Avenue, Suite 100
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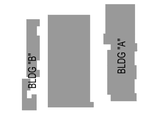
California 91730
P 909-987-0909

**CENTENNIAL HIGH SCHOOL AQUATICS CENTER**

PROJECT ADDRESS:
1820 RIMPAU AVE.
CORONA, CA 92881

DESIGN DEVELOPMENT

DSA APPL NO.: ##-##### DSA FILE NO.: ###




KEY PLAN

NORTH: PLAN

Consultant

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AquaticDesignGroup.com
760.438.8400

Architect

LICENSED ARCHITECT GREGORY S. TERRELL REN. 07/31/25 STATE OF CALIFORNIA

FOR PLAN CHECK ONLY

CLIENT
CORONA-NORCO UNIFIED SCHOOL DISTRICT

DATE 04-26-23
PROJECT NUMBER 220306

REVISIONS

| No. | Description | Date |
|---|---|---|
| | | |
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CONSTRUCTION DEVELOPMENT

DETAILS

AQ.20

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# *CENTENNIAL HIGH SCHOOL-AQUATICS*
# *CORONA NORCO UNIFIED SCHOOL DISTRICT*
# *CORONA, CALIFORNIA*

| *SHEET TITLE* | *SHEET NUMBER* |
|---|---|
| COVER PAGE | B1 |
| GENERAL NOTES | B2 |
| CONCRETE LAYOUT | B3 |
| UNDERSTRUCTURE LAYOUT | B4 |
| ENLARGED EXIT UNDERSTRUCTURE LAYOUTS | B5 |
| SECTION VIEWS | B6 |
| SIDE VIEWS | B6 |
| SEATING LAYOUT | B7 |
| EXIT ELEVATIONS | B8 |
| SEAT BRACKET LAYOUT | B9 |
| PLANK DETAILS | B10 |
| EXIT DETAILS | B11 |
| EXIT DETAILS | B12 |
| GRANDSTAND DETAILS | B13 |
| GRANDSTAND DETAILS | B14 |

#23064 - CORONA, CALIFORNIA

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Southern® BLEACHER COMPANY
GRANDSTANDS ▪ BLEACHERS ▪ STADIUMS

PO Box One, Graham, Texas 76450
801 Fifth Street.
Phone: 940/549-0733 Fax: 940/549-1365


Established 1946

HOME

| GENERAL INFORMATION | |
|---|---|
| RISE: | 12" |
| TREAD: | 26" |
| ROWS: | 6 |
| LENGTH: | 90'-0" |
| SEAT COUNT: | 281 |

GREGORY BRIAN T. DEAN REGISTERED PROFESSIONAL ENGINEER S 6087 Exp. 06/30/23 STRUCTURAL STATE OF CALIFORNIA
Signed 05/05/23 PRINCIPAL

DATE: 05/05/23
JOB #23064
CENTENNIAL HIGH SCHOOL-AQUATICS
CORONA NORCO UNIFIED SCHOOL DISTRICT
CORONA, CALIFORNIA

## GENERAL REQUIREMENTS:

1. CONFLICTS: NOTES AND DETAILS ON THE DRAWINGS TAKE PRECEDENCE OVER THE GENERAL NOTES AND TYPICAL DETAILS IN CASE OF CONFLICT.
2. CODES: ALL MATERIALS AND WORK SHALL CONFORM TO THE REQUIREMENTS OF THE CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 2, 2022 CALIFORNIA BUILDING CODE (CBC) & ICC 300.
3. SIMILAR WORK: WHERE CONSTRUCTION DETAILS ARE NOT SHOWN OR NOTED FOR ANY PART OF THE WORK, SUCH DETAILS SHALL BE THE SAME AS FOR SIMILAR WORK SHOWN ON THE DRAWINGS.
4. EXCAVATIONS: OWNER TO LOCATE AND PROTECT UNDERGROUND OR CONCEALED CONDUIT, PLUMBING OR OTHER UTILITIES WHERE NEW WORK IS BEING PERFORMED.

## DESIGN CRITERIA

1. DEAD LOADS:
   BLEACHERS (INCLUDES GIRDERS)..... 8 PSF
2. LIVE LOADS:
   LIVE LOAD..... 100 PSF
   SEATS..... 120 PLF
   FOOTBOARDS..... 100 PSF
   SWAY (PERPENDICULAR)..... 10 PLF
   SWAY (PARALLEL)..... 24 PLF
   GUARDRAILS AND HANDRAILS*..... 50 PLF
   * OR A 200 POUND CONCENTRATED LOAD APPLIED TO RAIL AT ANY POINT IN ANY DIRECTION.
3. LATERAL LOADS:

A) SEISMIC - SHORT PERIOD
SPECTRAL RESPONSE..... Ss = 2.032 g
ONE - SECOND PERIOD
SPECTRAL RESPONSE..... $S_1$ = 0.799 g
SITE CLASSIFICATION..... D
SITE COEFFICIENT..... Fa = 1.000
SITE COEFFICIENT..... Fv = 1.700
ADJUSTED SPECTRAL RESPONSE..... Sms = 2.032 g
ADJUSTED SPECTRAL RESPONSE..... Sm1 = 1.358 g
DESIGN SPECTRAL RESPONSE..... Sds = 1.354 g (2/3 Sms)
DESIGN SPECTRAL RESPONSE..... Sd1 = 0.906 g (2/3 Sm1)
RISK CATEGORY: III
I = 1.25
SEISMIC DESIGN CATEGORY..... E

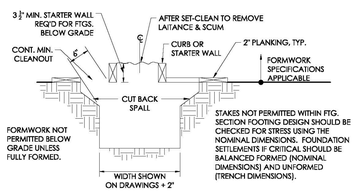
## LATERAL SYSTEMS:

BOTH DIRECTIONS: CH. 15 ALL OTHER SELF-SUPPORTING STRUCTURES
R = 1.25
Rho = 1
Cs = 1.354 (1.0E)
V = pCsW = 1.354W (1.0E strength)

A) WIND:
1. ULTIMATE DESIGN WIND SPEED, Vult = 102mph
2. RISK CATEGORY = III
3. WIND EXPOSURE = C
4. APPLICABLE INTERNAL PRESSURE COEFFICIENT (GCpi)=0.55

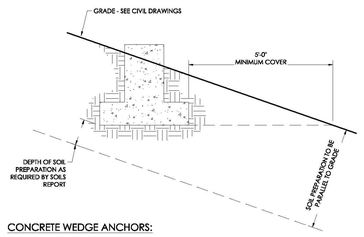
## FOUNDATION:

1. GEOTECHNICAL INVESTIGATION: LEIGHTON CONSULTING, INC.
   DATED: 09/02/22
   REPORT DATA: PROJECT NO. 13624.001
2. SOIL PRESSURES:
   SOIL BEARING..... 2000 psf
   COEFFICIENT OF FRICTION..... 0.35
   PASSIVE PRESSURE..... 240 pcf
3. SOIL REMOVAL AND RECOMPACTION: PER GEOTECHNICAL INVESTIGATION AND THE CONTRACT DOCUMENTS. SOILS WORK SHALL BE OBSERVED AND TESTED BY THE GEOTECHNICAL ENGINEER.
4. GEOTECHNICAL ENGINEER: SHALL OBSERVE FOOTINGS BEFORE PLACEMENT OF REINFORCING OR CONCRETE. FOOTING OBSERVATION AND COMPACTION REPORTS SHALL BE SENT TO THE ARCHITECT AND DSA.
5. SOIL PREPARATION: AS INDICATED IN THE GEOTECHNICAL INVESTIGATION REPORT AND AS SPECIFIED IN THE PROJECT SPECIFICATIONS. COORDINATE WITH GEOTECHNICAL ENGINEERS.
6. MANDATORY MINIMUM FORMWORK (unless fully formed).




A. STARTER WALL REQUIRED FOR ALL MASONRY OR CONCRETE WALLS.
B. FOUNDATION CONCRETE MAY BE PLACED DIRECTLY INTO NEAT EXCAVATIONS PROVIDED THE FOUNDATION TRENCH WALLS ARE STABLE AS DETERMINED BY THE ARCHITECT (STRUCTURAL ENGINEER) SUBJECT TO THE APPROVAL OF THE DIVISION OF THE STATE ARCHITECT. IN SUCH CASE THE MINIMUM FORMWORK SHOWN ON THE DRAWINGS IS MANDATORY TO INSURE CLEAN EXCAVATIONS IMMEDIATELY PRIOR TO AND DURING THE PLACING OF CONCRETE.

7. FOUNDATIONS GEOTECHNICAL / GRADING REQUIREMENTS:




## CONCRETE WEDGE ANCHORS:

1. ANCHOR DIAMETER REFERS TO THE THREAD SIZE FOR THE WEDGE ANCHOR.
2. APPLY PROOF TEST LOADS TO WEDGE ANCHORS WITHOUT REMOVING THE NUT IF POSSIBLE. IF NOT, REMOVE NUT & INSTALL A THREADED COUPLER TO THE SAME TIGHTNESS OF THE ORIGINAL NUT USING A TORQUE WRENCH & APPLY LOAD.
3. REACTION LOADS FROM TEST FIXTURES MAY BE APPLIED CLOSE TO THE ANCHOR BEING TESTED, PROVIDED THE ANCHOR IS NOT RESTRAINED FROM WITHDRAWING BY THE FIXTURE(S).
4. TEST EQUIPMENT IS TO BE CALIBRATED BY AN APPROVED TESTING LABORATORY IN ACCORDANCE WITH STANDARD RECOGNIZED PROCEDURES.
5. THE FOLLOWING CRITERIA APPLY FOR THE ACCEPTANCE OF INSTALLED ANCHORS:

   HYDRAULIC RAM METHOD:
   THE ANCHOR SHOULD HAVE NO OBSERVABLE MOVEMENT AT THE APPLICABLE TEST LOAD. FOR WEDGE ANCHORS, A PRACTICAL WAY TO DETERMINE OBSERVABLE MOVEMENT IS THAT THE WASHER UNDER THE NUT BECOMES LOOSE.

   TORQUE WRENCH METHOD:
   WEDGE TYPE:
   THE APPLICABLE TEST TORQUE MUST BE REACHED WITHIN THE FOLLOWING LIMITS:

   ONE-HALF (1/2) TURN OF THE NUT:
   ONE-QUARTER (1/4) TURN OF THE NUT FOR THE 3/8 IN. SLEEVE ANCHOR ONLY.

6. TESTING SHOULD OCCUR 24 HOURS MINIMUM AFTER INSTALLATION OF THE SUBJECT ANCHORS.
7. TESTING VALUES:

HILTI SS KB TZ2 ICC-ESR-4266
HARD ROCK TEST VALUES CONCRETE

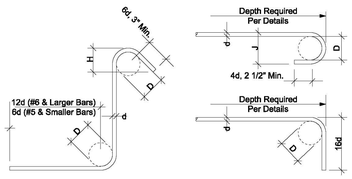
| ANCHOR DIA. (IN.) | MINIMUM EMBEDMENT (NOMINAL) | TENSION TEST LOAD (LBS.) | TORQUE (FT.-LBS.) |
|---|---|---|---|
| 3/8 | 3" | 2,990 | 30 |
| 1/2 | 3 3/4" | 4,433 | 40 |
| 5/8 | 4 1/2" | 6,053 | 60 |
| 3/4 | 5 1/2" | 7,831 | 125 |
| 1 | 6-3/8" | 9660 | 185 |

## CONCRETE NOTES:

1. MAXIMUM SIZE AGGREGATE SHALL BE AS FOLLOWS:
   1 1/2"Ø
   AGGREGATE FOR CONCRETE SHALL CONFORM TO ASTM C33.
   GRADING OF AGGREGATE SHALL CONFORM TO TITLE 24, PART 2 CHAPTER 19-A, CBC.
2. MINIMUM COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS SHALL BE 3,000 PSI. SLUMP = 5" MAX. W/C RATIO IS 0.50 MAX.
3. ALL REINFORCING SHALL BE ASTM A615 GRADE 40 FOR #3, GRADE 60 FOR #4 AND LARGER. REINF. TO BE WELDED SHALL BE ASTM A706.
4. ALL DIMENSIONS SHOWN FOR LOCATION OF REINFORCING STEEL ARE TO FACE OF BAR AND DENOTE CLEAR COVERAGE. UNLESS SPECIFICALLY NOTED, CONCRETE COVERAGE SHALL BE AS FOLLOWS:
   3" FOR CONCRETE DEPOSITED DIRECTLY AGAINST GROUND (EXCEPT SLABS)
   2" FOR CONCRETE EXPOSED TO GROUND OR WEATHER BUT PLACED IN FORMS.
   PLACE REINF. AT MID-THICKNESS FOR SLABS ON GROUND.
5. CONCRETE SHALL NOT BE DROPPED THROUGH REINF. STEEL (AS IN WALL) SO TO CAUSE SEGREGATION OF AGGREGATES. IN SUCH CASES, HOPPERS AND VERTICAL CHUTES OR TRUNKS SHALL BE USED. CHUTES OR TRUNKS SHALL BE OF VARIABLE LENGTHS SO THAT FREE UNCONFINED FALL OF CONCRETE SHALL NOT EXCEED FIVE (5) FEET AND SUFFICIENT NUMBER SHALL BE USED TO INSURE THE CONCRETE BEING LEVEL AT ALL TIMES.
6. HORIZONTAL CONSTRUCTION JOINTS SHALL HAVE ENTIRE SURFACE REMOVED TO EXPOSED CLEAN AGGREGATE SOLIDLY EMBEDDED.
7. ALL STEEL COLUMN BASE PLATES AND STEEL BEAMS BEARING ON CONCRETE SHALL BEAR UPON 1" DRYPACK AND LEVELING NUTS EXCEPT AS NOTED OTHERWISE.
8. WHERE STEEL MEMBERS BEAR IN CONCRETE, GAPS BETWEEN BASE PLATE AND CONCRETE SHOULD BE DRY-PACKED WITH GROUT AFTER STEEL IS IN PLACE. GROUT SHALL BE PER CONCRETE CONTRACTOR AND SHALL BE 5 KSI MINIMUM.
9. PROVIDE MINIMUM LAP SPLICES FOR CONTINUOUS REINFORCEMENT PER THE SCHEDULE PROVIDED BELOW. PROVIDE MINIMUM DEVELOPMENT FOR HOOKED BARS PER THE SCHEDULE BELOW.

**TYPICAL LAP SPLICES AND DEVELOPMENT U.N.O. PER PLAN**
***3000 psi Conc., 60 ksi Rebar, 2" Clr. Min.***

| Bar Size | Hook Dev. Length (Ldh) | Lap Splice |
|---|---|---|
| #3 | 6" | 17" |
| #4 | 8" | 23" |
| #5 | 10" | 28" |
| #6 | 12" | 34" |
| #7 | 14" | 49" |




**STANDARD TIES & STIRRUPS**

| Bar Size | D | H |
|---|---|---|
| #3 | 1 1/2" | 2 1/2" |
| #4 | 2" | 3" |
| #5 | 2 1/2" | 3 3/4" |
| #6 | 4 1/2" | 4 1/2" |
| #7 | 5 1/4" | 5 1/4" |
| #8 | 6" | 6" |

**STANDARD END HOOKS**

| Bar Size | D | J |
|---|---|---|
| #3 | 2 1/4" | 3" |
| #4 | 3" | 4" |
| #5 | 3 3/4" | 5" |
| #6 | 4 1/2" | 6" |
| #7 | 5 1/4" | 7" |
| #8 | 6" | 8" |
| #9 | 9 1/2" | 11 3/4" |
| #10 | 10 3/4" | 13 1/4" |

*NOTE: All bar bend diameters and end lengths must conform to the CRSI Manual of Standard Practice.*

## CONCRETE - EPOXY ANCHORED THREADED RODS:

1. MATERIALS: (ICC ESR 4868)
   HILTI HIT-HY 200 V3 EPOXY ADHESIVE
   CONCRETE (MIN.)..... Fc = 3,000 PSI STONE AGGREGATE
   THREADED RODS..... ASTM F1554 Gr. 55 (Fy= 55ksi MIN.) , HDG
   NUTS..... ASTM A-563 HEX, GRADE A, HDG
2. INSTALLATION:
   A. CARBIDE-TIPPED DRILL BITS ANSI B212.15-1994.
   B. HOLES DRILLED WITH HOLLOW BIT, NO CLEANING OR BRUSHING REQUIRED.
   C. INSTALLATION AND ALLOWABLE LOADING:

HILTI HIT-HY 200 V3
HARD ROCK TEST VALUES CONCRETE

| ROD DIAM. (IN.) | BIT DIAM. (IN.) | MIN. EMBED. (IN.) | MIN EDGE DIST. (IN.) | TENSION TEST LOAD (LBS.) |
|---|---|---|---|---|
| 3/8 | 7/16 | 3-3/8 | 5-1/4 | 2,213 |
| 1/2 | 9/16 | 4-1/2 | 6-3/8 | 4,276 |
| 5/8 | 3/4 | 4-1/2 | 7-1/2 | 5,123 |

3. CAPACITY LOADS ARE STRENGTH DESIGN LOADS.
4. DO NOT INSTALL IN CONCRETE THAT IS LESS THAN 7 DAYS OLD.
5. MINIMUM MEMBER THICKNESS TO RECEIVE ROD SHALL BE NO LESS THAN 1.5 TIMES THE ANCHOR EMBEDMENT DEPTH.
6. ANCHORS SHALL BE INSTALLED IN HAMMER DRILLED HOLES

## STRUCTURAL STEEL:

1. CODES: AISC SPECIFICATION FOR STRUCTURAL STEEL FOR BUILDINGS; MANUAL OF STEEL CONSTRUCTION (15TH EDITION); STRUCTURAL WELDING CODE AWS D1.1 AND AWS D1.4. PIPES SHALL BE IDENTIFIED WITH MILL IDENTIFICATION IN ACCORDANCE WITH ASTM A-53 AND TUBE SHAPES IN ACCORDANCE WITH ASTM A-500.
2. IDENTIFICATION: ROLLED STRUCTURAL STEEL SHAPES SHALL BE IDENTIFIED WITH MILL IDENTIFICATION MARKS IN CONFORMANCE WITH ASTM A6.
3. MATERIALS:
   STRUCTURAL SHAPES
   WIDE FLANGE..... ASTM A992/A572, Fy = Gr. 50 (Fy = 50 ksi Min.), UNO
   CHANNELS AND ANGLES..... ASTM A529, Fy = Gr. 50 (Fy = 50 ksi Min.), UNO
   SWAYRODS..... ASTM A529, Fy = Gr. 50 (Fy = 50 ksi Min.), UNO
   HSS SHAPES (TUBE COLUMNS)..... ASTM A-500 GRADE B - 46 KSI
   PLATES ¾" THICK OR LESS..... ASTM A36 Gr. 36 (Fy = 36 ksi Min.), UNO
   PLATES GREATER THAN ¾" THICK.... ASTM A572 Gr. 50 (Fy = 50 ksi Min.), UNO
   BOLTS..... ASTM A-307, A325N TYPICAL U.N.O (HOT DIP GALVANIZED)
   NUTS..... HEAVY HEX (HOT DIP GALVANIZED)
   NON-SHRINK GROUT..... ASTM C-1107 5,000 PSI (NON-METALLIC)
   ANCHOR BOLTS..... ASTM F1554 Gr. 55 (Fy=55 ksi Min.) (HOT DIP GALVANIZED)
4. WELDING: ALL WELDING SHALL BE IN CONFORMANCE WITH AWS D1.1. WELDS ARE ALL AROUND WITH TYPE ER70S-6 WIRE MIG U.N.O.
5. ALL STEEL SHALL BE HOT DIP GALVANIZED TO CURRENT A.S.T.M. A-123.
6. ALL FIELD CONNECTIONS ARE NON-SLIP CRITICAL U.N.O. ALL CONNECTIONS ARE DESIGNED TO UTILIZE A307 BOLTS. IT IS ACCEPTABLE TO USE A325N BOLTS IN LIEU OF THE A307 BOLTS WITHOUT NEEDING THE TESTS AND SPECIAL INSPECTIONS FOR HIGH STRENGTH BOLTS. THE INSTALLATION OF THESE BOLTS ARE TO BE TIGHTENED A SNUG TIGHT CONDITION AS SPECIFIED BY AISC. BOLT HOLES IN STANDARD CONNECTIONS SHALL BE STANDARD WITH 1/16" OVER SIZING FROM BOLT DIAMETER AND 1/8" OVERSIZED FOR ANCHORAGE LOCATIONS.
7. SWAYROD THREADS SHALL BE PINGED WITH A HAMMER TO ELIMINATE REMOVAL OF NUT, AFTER FINAL TIGHTENING.

## ALUMINUM:

1. MATERIALS: ALUMINUM
   SHAPES..... ALLOY 6061-T6 OR 6005-T5 (Fy = 35 KSI)
   PLANKING..... ALLOY 6063-T6 (Fy = 25 KSI)
2. DISSIMILAR MATERIALS: WHERE ALUMINUM SURFACES ARE IN CONTACT WITH STEEL, THE STEEL SHALL BE GALVANIZED.
3. MILL FINISHED ALUMINUM WILL BECOME DISCOLORED DUE TO OXIDATION WHICH IS A NATURAL PHENOMENON & SHOULD BE EXPECTED.
4. ANODIZED ALUMINUM HANDRAIL IS 1 1/4" PIPE SIZE.
5. ALUMINUM TO CONFORM TO 2015 ALUMINUM DESIGN MANUAL.

## SPECIAL INSPECTION/INSPECTOR REQUIREMENTS

## REQUIREMENTS FOR SPECIAL INSPECTION:

1. PROJECT INSPECTOR: IN ACCORDANCE WITH TITLE 24, PART I, SECTIONS 4-333 AND 4-342.
2. CERTIFIED SPECIAL INSPECTOR: EMPLOYED BY THE DISTRICT AND APPROVED BY THE ARCHITECT, STRUCTURAL ENGINEER AND DSA.
3. REPORTS: PREPARED BY THE SPECIAL INSPECTOR AND SIGNED BY A CIVIL ENGINEER. SUBMITTED TO THE DSA, THE ARCHITECT, AND ENGINEER. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION; THEN, IF NOT CORRECTED, TO THE ARCHITECT, ENGINEER AND THE DSA (CBC 1704A.2.4).
4. THE SPECIAL INSPECTION IS TO BE CONTINUOUS DURING THE PERFORMANCE OF THE WORK UNLESS OTHERWISE SPECIFIED.

## SUMMARY OF STRUCTURAL CONTINUOUS AND PERIODIC SPECIAL INSPECTION:

1. RESPONSIBILITY: IT IS THE RESPONSIBILITY OF THE PROJECT INSPECTOR TO INFORM THE SPECIAL INSPECTOR OR INSPECTION AGENCY AT LEAST ONE WORKING DAY PRIOR TO PERFORMING ANY WORK THAT REQUIRES SPECIAL INSPECTION.
2. SPECIAL INSPECTIONS:
   A) CONCRETE (CBC 1705A.3): DURING THE TAKING OF TEST SPECIMENS AND PLACING OF REINFORCED CONCRETE.
   B) BOLTS INSTALLED IN CONCRETE (CBC 1705A.3): PRIOR TO AND DURING THE PLACEMENT OF CONCRETE AROUND BOLTS.
   C) REINFORCING STEEL (CBC 1705A.3): DURING PLACING OF REINFORCING STEEL FOR ALL CONCRETE SPECIFIED TO HAVE SPECIAL INSPECTION.
   D) STRUCTURAL WELDING AND FABRICATION (CBC 1705A.2, 1705A.2.5 & 1704A.2.5):
      1. DURING ALL SHOP AND FIELD WELDING IN ACCORDANCE WITH AWS D1.1 DURING SHOP FABRICATION.
      2. WELDING INSPECTORS ARE TO BE AWS QC-1 CERTIFIED.
      3. INSPECTION SHALL BE PER AWS D1.1, D1.3 OR D1.4 AND INCLUDE VERIFICATION THAT THE WPS IS BEING FOLLOWED.
      4. ALL STEEL AND WELDING MATERIALS SHALL BE IDENTIFIED AS REQUIRED BY THEIR ASTM OR AWS STANDARD.
      5. ALL SUBMITTED TO THE OWNER BY THEIR WELDING INSPECTOR. NOT THE BLEACHER FABRICATOR.
   E) CONCRETE ANCHORS: FOR ALL THREADED ROD AND REINFORCING STEEL ANCHORED WITH EPOXY ADHESIVE IN CONCRETE: FOR ALL EXPANSION ANCHORS IN CONCRETE. INSPECTION / TESTING SHALL BE IN CONFORMANCE WITH THE ANCHOR MANUFACTURER'S EVALUATION REPORT AND SHALL INCLUDE AS A MINIMUM VERIFICATION OF HOLE DEPTH AND DIAMETER, CLEAN OUT, ALL MATERIALS, INSTALLATION TORQUE AND PROOF LOAD TESTS.
   F) YEARLY INSPECTION: AFTER THE INSTALLATION, THE OWNER SHALL CONDUCT ANNUAL INSPECTIONS AS REQUIRED BY ICC/ANSI 300, SECTION 102.2. THE OWNER WILL ALSO MAINTAIN COPIES OF ALL ANNUAL INSPECTIONS REPORTS AND MAKE THEM AVAILABLE ON SITE FOR DSA REVIEW, UPON REQUEST.

**THE FOLLOWING ITEMS ARE EXEMPT FROM DSA REQUIREMENTS FOR THE STRUCTURAL TEST / SPECIAL INSPECTIONS NOTED:**

1. CONCRETE BATCH PLANT INSPECTION FOR BLEACHER FOUNDATIONS, SUBJECT TO THE REQUIREMENTS AND LIMITATIONS OF CBC 1705A.3.3.2.

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REGISTERED PROFESSIONAL ENGINEER
BRIAN T. DEAN
S 6087
Exp. 06/30/23
STRUCTURAL
STATE OF CALIFORNIA
Signed 05/05/23
PRINCIPAL

GENERAL NOTES

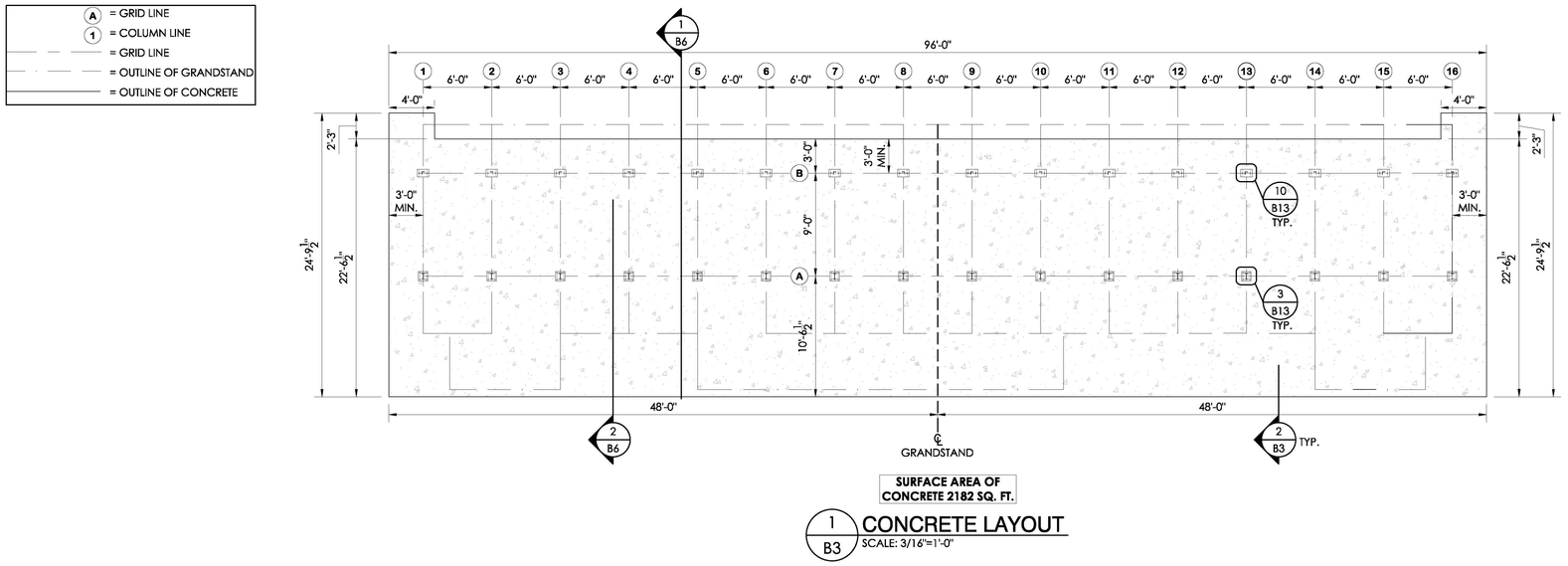
CENTENNIAL HIGH SCHOOL-AQUATICS
CORONA NORCO UNIFIED SCHOOL DISTRICT
CORONA, CALIFORNIA

| REV. | BY | DATE | DESCRIPTION |
|---|---|---|---|

DATE 05/05/23 DRAWN SMR CHECKED DMC
JOB NUMBER #23064
SHEET B2 OF B14

22" X 34" (11x17 = 1/2 indicated scale)

23064

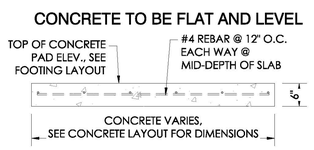



**SURFACE AREA OF CONCRETE 2182 SQ. FT.**

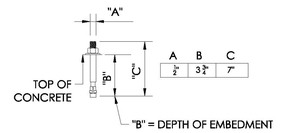
1 / B3 CONCRETE LAYOUT
SCALE: 3/16"=1'-0"

## FOUNDATION NOTES

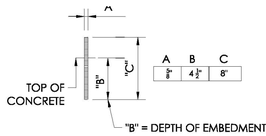
1. OWNER/OWNERS REP SHALL VERIFY ALL DIMENSIONS PRIOR TO START OF CONSTRUCTION.
2. REINFORCING STEEL SHALL BE ASTM A615 GRADE 60.
3. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS.
4. MAXIMUM HORIZ. TOLERANCE OF ANCHOR BOLT PLACEMENT SHALL BE ±⅛".
5. THE CONCRETE FOUNDATION CONTRACTOR IS RESPONSIBLE FOR NON SHRINK GROUTING.
6. IF GROUT IS REQUIRED: THE ELEVATION AT THE TOP OF THE CONCRETE PIER IS DESIGNED TO BE 1" BELOW THE BOTTOM OF STEEL ELEVATION. THE TOLERANCE FOR THE BOTTOM OF STEEL ELEVATION IS ±¼". THE TOP OF CONCRETE ELEVATION MAY BE RAISED TO MATCH THE BOTTOM OF STEEL ELEVATION, AT THE CONCRETE CONTRACTORS DISCRETION. THE CONTRACTOR OF THE CONCRETE FOUNDATIONS IS RESPONSIBLE FOR ANY ADJUSTMENTS REQUIRED.
7. ALL UNDERGROUND UTILITIES ARE TO BE LOCATED AND MARKED DURING THE REVIEW PROCESS BY THE OWNERS REPRESENTATIVE PRIOR TO FOUNDATION EXCAVATION.
8. REMOVE/RELOCATE THE UNDERGROUND UTILITIES AS REQUIRED WHERE UNDERGROUND UTILITIES CONFLICT WITH THE NEW FOOTINGS.




MINIMUM
2 / B3 CONCRETE DETAIL
NOT TO SCALE




3 / B3 WEDGE ANCHOR DETAIL
NOT TO SCALE




4 / B3 THREADED ROD DETAIL
NOT TO SCALE

THREADED ROD WITH EPOXY MAY BE USED IN LIEU OF KBTZ WEDGE ANCHOR

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Established 1946

REGISTERED PROFESSIONAL ENGINEER BRIAN Y. DEAN S 6087 Exp. 08/30/23 STRUCTURAL STATE OF CALIFORNIA
Signed 05/05/23
PRINCIPAL

TITLE: CONCRETE LAYOUT
12" RISE X 26" TREAD / 90'-0" (6 ROWS)

CENTENNIAL HIGH SCHOOL-AQUATICS
CORONA NORCO UNIFIED SCHOOL DISTRICT
CORONA, CALIFORNIA

| REV. # | DATE | DESCRIPTION |
|---|---|---|
| | | |

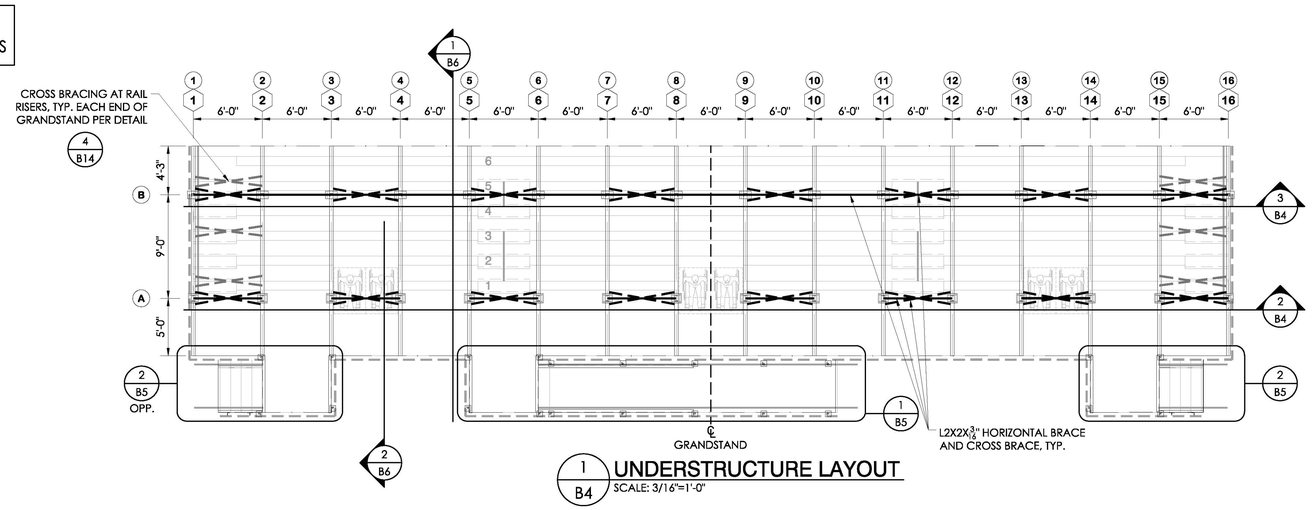
DATE 05/05/23 DRAWN SMR CHECKED DMC
JOB NUMBER #23064
SHEET B3 OF B14

22" X 34" (1:1)
1 = 1/2 Indicated scale)

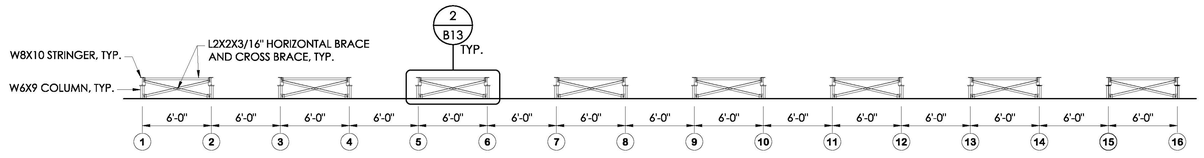
23064

NOTE: SEATING LAYOUT SHOWN FOR REFERENCE ONLY, SEE SHEET B7 FOR SEATING LAYOUT

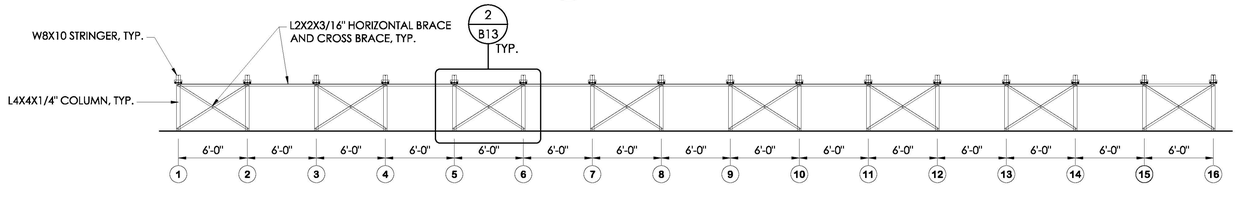
(A) = PIER LETTERS
(44) = STRINGER NUMBERS




1 B4 UNDERSTRUCTURE LAYOUT
SCALE: 3/16"=1'-0"




2 B4 "A" ROW ELEVATION VIEW
NOT TO SCALE




3 B4 "B" ROW ELEVATION VIEW
NOT TO SCALE

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TITLE: UNDERSTRUCTURE LAYOUT
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CORONA NORCO UNIFIED SCHOOL DISTRICT
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| REV | BY | DATE | DESCRIPTION |
|---|---|---|---|

| DATE | DRAWN | CHECKED |
|---|---|---|
| 05/05/23 | SMR | DMC |

JOB NUMBER #23064

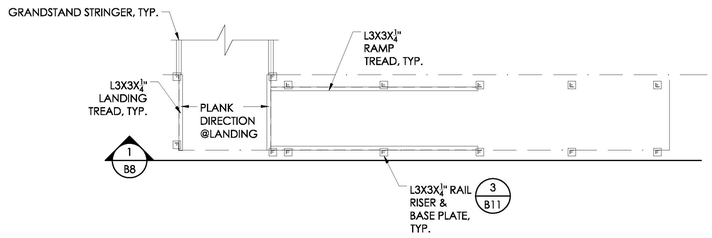
SHEET B4 OF B14

22" X 34" (11x17 = 1/2 indicated scale)

23064

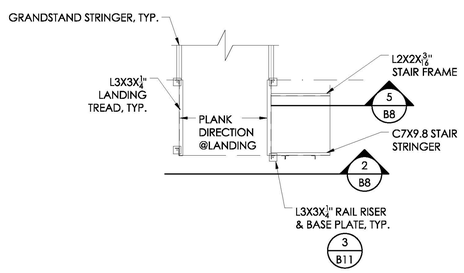
R1 = RAMP STRINGER NUMBERS

H1 = RAMP BEAM NUMBERS




## 1/B5 ENLARGED EXIT RAMP UNDERSTRUCTURE LAYOUT

SCALE: 1/4"=1'-0"




## 2/B5 ENLARGED EXIT STAIR UNDERSTRUCTURE LAYOUT

SCALE: 1/4"=1'-0"

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GRANDSTANDS •BLEACHERS •STADIUMS
PO Box One, Graham, Texas 76450
801 Fifth Street.
Phone: 940/549-0733 Fax: 940/549-1365
Established 1946

REGISTERED PROFESSIONAL ENGINEER BRIAN Y. DEAN S 6087 Exp. 08/30/23 STRUCTURAL STATE OF CALIFORNIA

Signed 05/05/23 PRINCIPAL

TITLE: ENLARGED EXIT UNDERSTRUCTURE LAYOUT
12" RISE X 26" TREAD / 90'-0" (6 ROWS)

JOB: CENTENNIAL HIGH SCHOOL-AQUATICS
CORONA NORCO UNIFIED SCHOOL DISTRICT
CORONA, CALIFORNIA

| # | REV. BY | DATE | DESCRIPTION |
|---|---|---|---|

DATE: 05/05/23 DRAWN: SMR CHECKED: DMC

JOB NUMBER: #23064

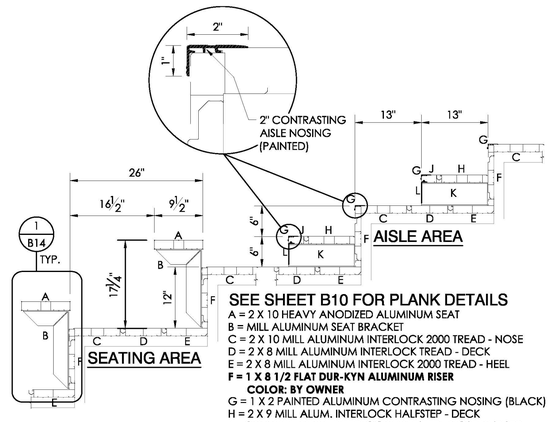
SHEET: B5 OF: B14

22"X 34" (1:1)
= 1/2 indicated scale)

23064

ITEM DESCRIPTION

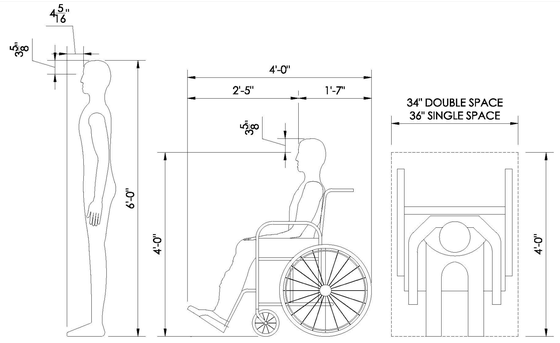
1. W 8 X 10 (50 ksi)
2. W 6 X 9 (50 ksi)
3. L 4 X 4 X 1/4 (50 ksi)
4. L 3 X 3 X 1/4 (50 ksi)
5. L 2 X 2 X 3/16 (50 ksi)
6. L 2 X 1 1/2 X 3/16 (50 ksi)
7. 10 X 10 X 3/8 PLATE
8. 12 X 8 X 1/2 PLATE
9. 1/2"Ø HILTI KB TZ2 SS WEDGE ANCHORS (MIN. EMBEDMENT = 3 3/4")
10. 9 GAUGE GALV. STEEL CHAINLINK FENCE
11. ANODIZED ALUMINUM RAIL
12. 2 X 1/4 GUSSET PLATE (A36)




SEE SHEET B10 FOR PLANK DETAILS

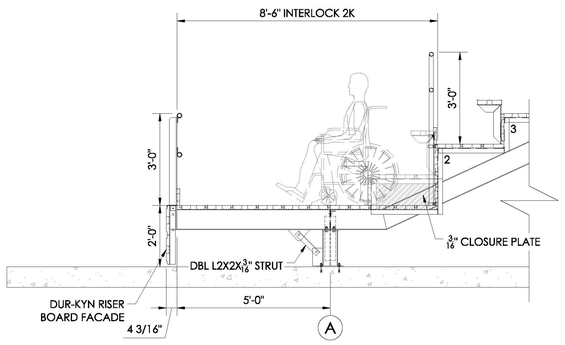
A = 2 X 10 HEAVY ANODIZED ALUMINUM SEAT
B = MILL ALUMINUM SEAT BRACKET
C = 2 X 10 MILL ALUMINUM INTERLOCK 2000 TREAD - NOSE
D = 2 X 8 MILL ALUMINUM INTERLOCK TREAD - DECK
E = 2 X 8 MILL ALUMINUM INTERLOCK 2000 TREAD - HEEL
**F = 1 X 8 1/2 FLAT DUR-KYN ALUMINUM RISER**
**COLOR: BY OWNER**
G = 1 X 2 PAINTED ALUMINUM CONTRASTING NOSING (BLACK)
H = 2 X 9 MILL ALUM. INTERLOCK HALFSTEP - DECK
J = 2 X 4 MILL ALUM. INTERLOCK HALFSTEP - NOSE W/RISER
K = 4 1/2" MILL ALUMINUM HALFSTEP BRACKET
L = 4 1/2" ANODIZED ALUMINUM INTERLOCK STEP RISER

4 / B6 PLANK ARRANGEMENT
NOT TO SCALE 12" X 26"



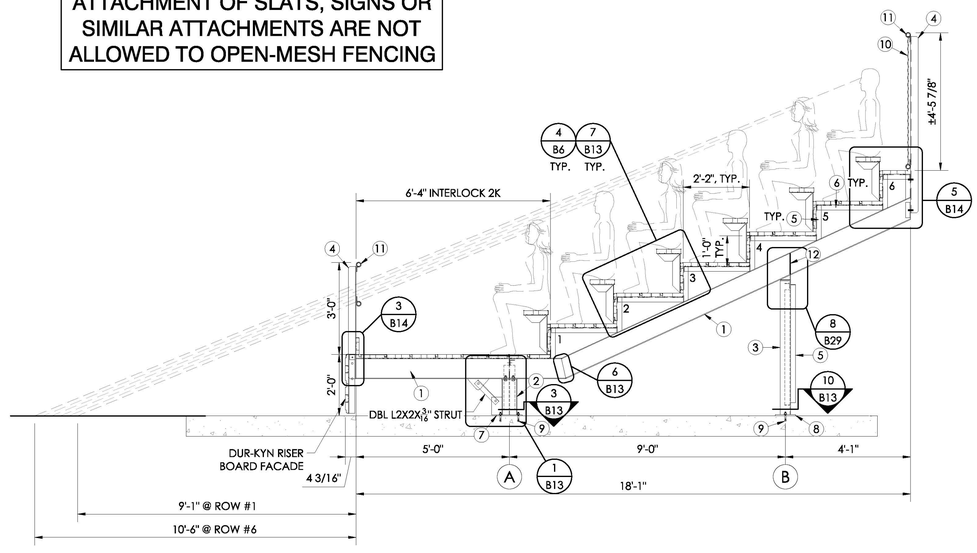

5 / B6 SIGHT LINE PARAMETERS
NOT TO SCALE

ATTACHMENT OF SLATS, SIGNS OR SIMILAR ATTACHMENTS ARE NOT ALLOWED TO OPEN-MESH FENCING




REFER TO DETAIL 1 / B6 FOR CALL OUTS AND CONNECTIONS NOT SHOWN

2 / B6 SECTION VIEW @ WHEELCHAIR AREA
SCALE:1/2"=1'-0"




1 / B6 SECTION VIEW
SCALE:1/2"=1'-0"

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REGISTERED PROFESSIONAL ENGINEER BRIAN T. DEAN S 6087 Exp. 06/30/23 STRUCTURAL STATE OF CALIFORNIA
Signed 05/05/23
PRINCIPAL

TITLE: SECTION VIEWS
12" RISE X 26" TREAD / 90'-0" (6 ROWS)

TITLE: CENTENNIAL HIGH SCHOOL-AQUATICS
CORONA NORCO UNIFIED SCHOOL DISTRICT
CORONA, CALIFORNIA

| REV | BY | DATE | DESCRIPTION |
|---|---|---|---|

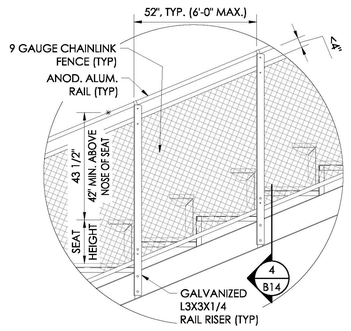
| DATE | DRAWN | CHECKED |
|---|---|---|
| 05/05/23 | SMR | DMC |

JOB NUMBER #23064

SHEET B6 OF B14

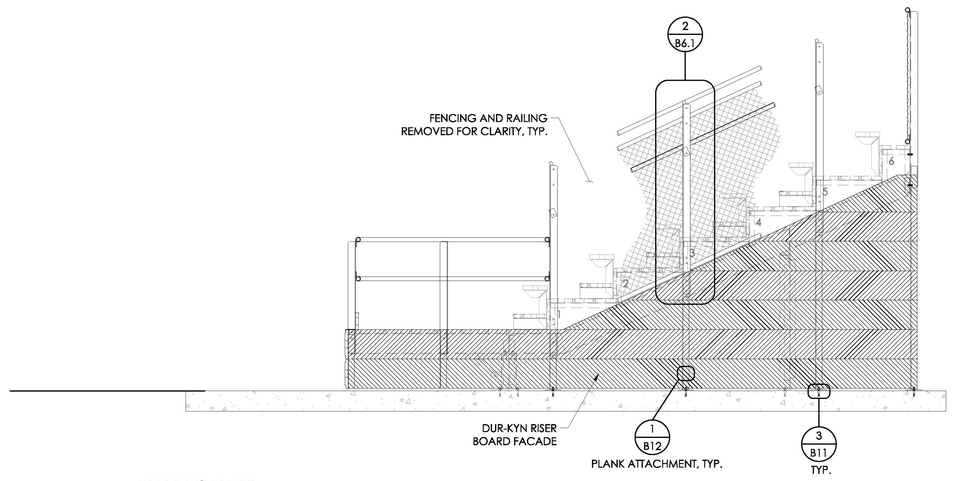
22" X 34" (11x17 = 1/2 indicated scale)

23064




2 / B6.1 **TYPICAL SIDE RAILING**
SCALE:1/2"=1'-0"

ATTACHMENT OF SLATS, SIGNS OR SIMILAR ATTACHMENTS ARE NOT ALLOWED TO OPEN-MESH FENCING




REFER TO DETAIL 1 / B6 FOR CALL OUTS AND CONNECTIONS NOT SHOWN

1 / B6.1 **SIDE VIEW (SHOWN AND OPPOSITE)**
SCALE:1/2"=1'-0"

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BRIAN T. DEAN
S 6087
Exp. 06/30/23
STRUCTURAL
STATE OF CALIFORNIA
Signed 05/05/23
PRINCIPAL

TITLE: SIDE VIEW
12" RISE X 26" TREAD / 90'-0" (6 ROWS)

TITLE: CENTENNIAL HIGH SCHOOL-AQUATICS
CORONA NORCO UNIFIED SCHOOL DISTRICT
CORONA, CALIFORNIA

| REV | BY | DATE | DESCRIPTION |
|---|---|---|---|

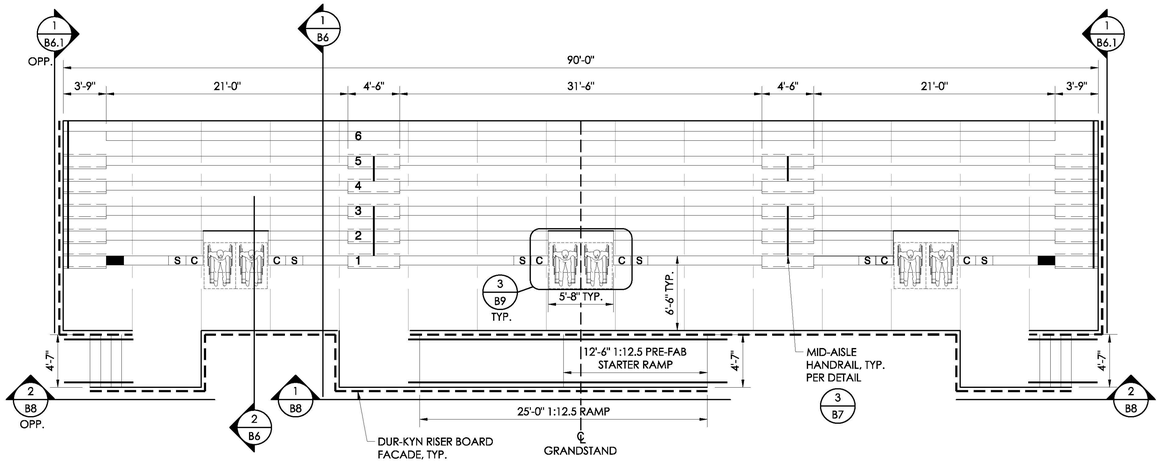
| DATE | DRAWN | CHECKED |
|---|---|---|
| 05/05/23 | SMR | DMC |

JOB NUMBER #23064

SHEET B6.1 OF B14

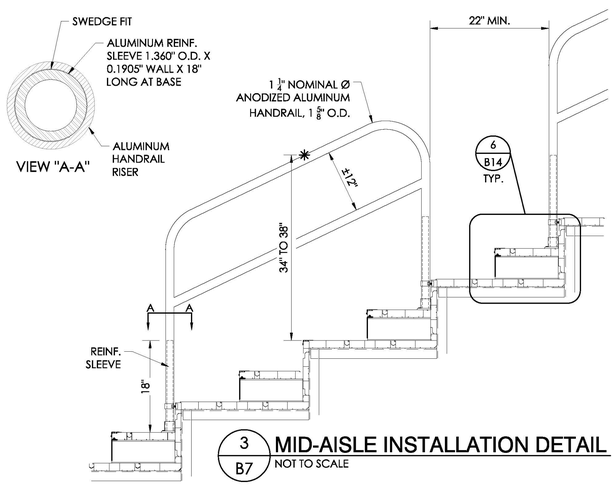
22" X 34" (11x17 = 1/2 indicated scale)

23064

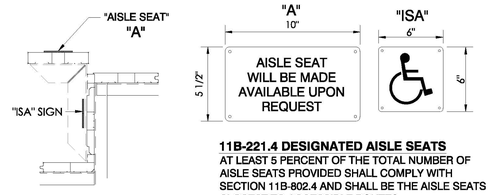



1 B7 SEATING LAYOUT
SCALE: 3/16"=1'-0"

| SEAT COUNT - HOME | |
|---|---|
| 18" BENCH SEATS | 261 |
| 34" WHEELCHAIR SPACES | 6 |
| 36" WHEELCHAIR SPACES | 0 |
| 18" COMPANION SEATS C | 6 |
| 18" SEMI-AMBULANT SEATS S | 6 |
| 18" AISLE SEATS ■ | 2 |
| TOTAL SEAT COUNT | **281** |




3 B7 MID-AISLE INSTALLATION DETAIL
NOT TO SCALE




**11B-221.4 DESIGNATED AISLE SEATS**
AT LEAST 5 PERCENT OF THE TOTAL NUMBER OF AISLE SEATS PROVIDED SHALL COMPLY WITH SECTION 11B-802.4 AND SHALL BE THE AISLE SEATS CLOSEST TO ACCESSIBLE ROUTES

20 TOTAL AISLE SEATS X 5% = 1.0 AISLE SEATS REQUIRED, 2 PROVIDED

■ = AISLE SEATS

2 B7 DESIGNATED AISLE SEATS
NOT TO SCALE

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REGISTERED PROFESSIONAL ENGINEER BRIAN T. DEAN S 6087 Exp. 06/30/23 STRUCTURAL STATE OF CALIFORNIA
Signed 05/05/23
PRINCIPAL

TITLE: SEATING LAYOUT
12" RISE X 26" TREAD / 90'-0" (6 ROWS)

FILE: CENTENNIAL HIGH SCHOOL-AQUATICS
CORONA NORCO UNIFIED SCHOOL DISTRICT
CORONA, CALIFORNIA

| REV | BY | DATE | DESCRIPTION |
|---|---|---|---|

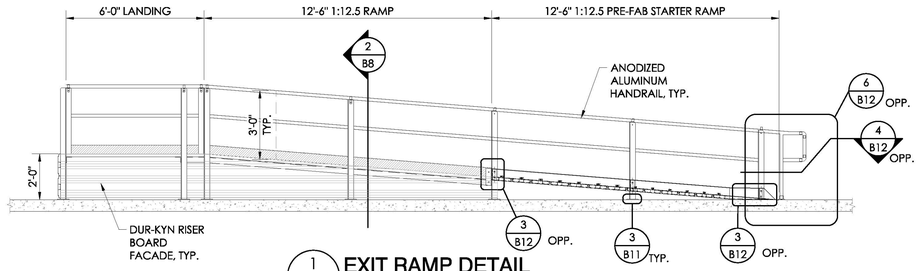
| DATE | DRAWN | CHECKED |
|---|---|---|
| 05/05/23 | SMR | DMC |

JOB NUMBER #23064

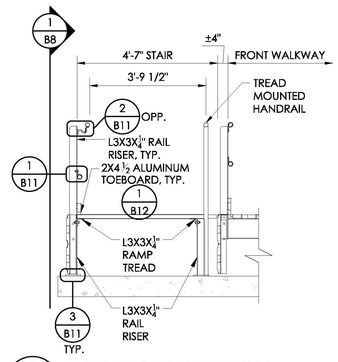
SHEET B7 OF B14

22" X 34" (11x17 = 1/2 indicated scale)

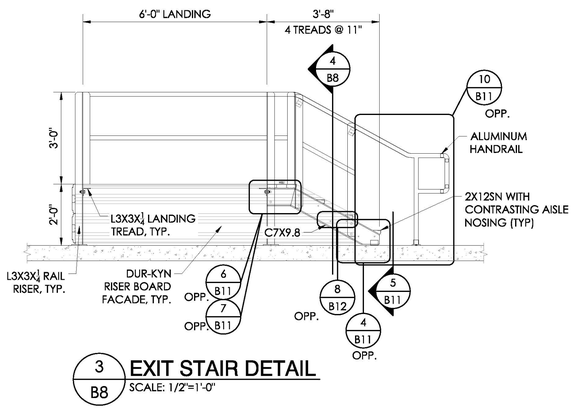
23064



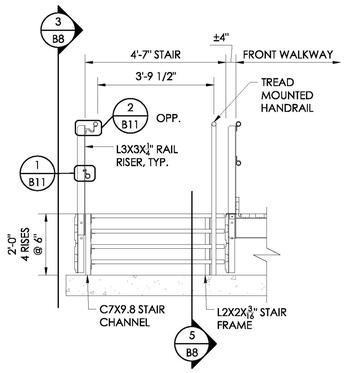

1 B8 **EXIT RAMP DETAIL**
SCALE: 3/8"=1'-0"



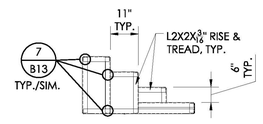

2 B8 **EXIT RAMP SECTION**
SCALE: 1/2"=1'-0"




3 B8 **EXIT STAIR DETAIL**
SCALE: 1/2"=1'-0"




4 B8 **EXIT STAIR SECTION**
SCALE: 1/2"=1'-0"




5 B8 **STAIR FRAME DETAIL**
SCALE: 1/2"=1'-0"

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REGISTERED PROFESSIONAL ENGINEER
BRIAN T. DEXTER
S 6087
Exp. 06/30/23
STRUCTURAL
STATE OF CALIFORNIA

Signed 05/05/23
PRINCIPAL

TYPE: EXIT ELEVATIONS
12" RISE X 26" TREAD / 90'-0" (6 ROWS)

CENTENNIAL HIGH SCHOOL-AQUATICS
CORONA NORCO UNIFIED SCHOOL DISTRICT
CORONA, CALIFORNIA

| BY | DATE | DESCRIPTION |
|---|---|---|
| | | |

DATE 05/05/23 | DRAWN SMR | CHECKED DMC

JOB NUMBER #23064

SHEET B8 OF B14

22" X 34" (11X17 = 1/2 indicated scale)

23064

CBC 2022:
PROVIDE 0.08" WIDTH PER SEAT FOR AISLES & STAIRS:
EQUIVALENT TO 150 PEOPLE PER FOOT.
PROVIDE 0.06" WIDTH PER SEAT FOR RAMPS:
EQUIVALENT TO 200 PEOPLE PER FOOT.

**PRESS BOX CALCULATIONS**
8' X 36' = 288 sf
LANDINGS: 2 X 6'X 8'= 96 sf
ROOF = 12'X 8' - 30" X 36" ROOF HATCH= 88.5 sf
TOTAL: 472.5sf
LESS THAN 500 S.F.

**AISLE WIDTH CALCULATIONS:**
END AISLES
REQUIRED AISLE WIDTH = <42 SEATS X 0.08" PER SEAT = <0'-3 3/8"
3'-0" CODE MINIMUM; 3'-9" PROVIDED - OK

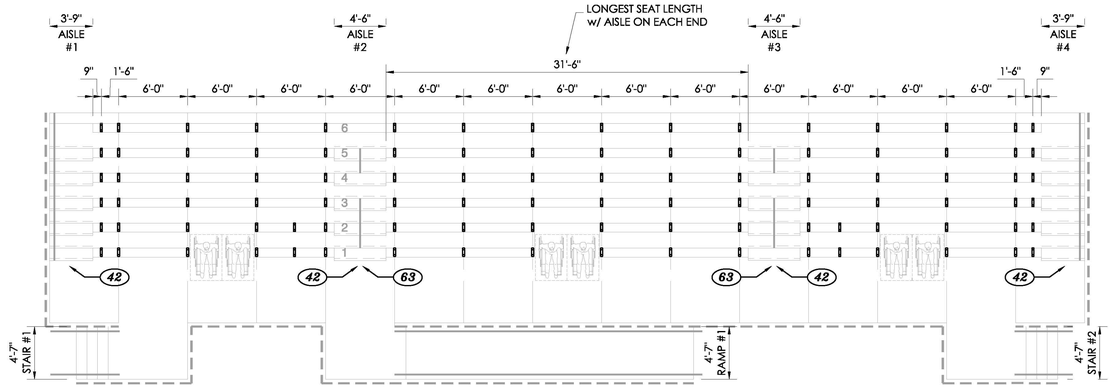
MIDDLE AISLES
REQUIRED AISLE WIDTH = <105 SEATS X 0.08" PER SEAT = <0'-8 3/8"
4'-0" CODE MINIMUM; 4'-6" PROVIDED - OK

AISLE ACCESSWAY (SEATING EACH SIDE):
26" TREAD DEPTH
CLEAR WIDTH = DEPTH (26") LESS SEAT WIDTH (9.5") = 16.5"
21 SEATS FIRST 12" CLEAR = 21 SEATS
0.3" EACH ADDITIONAL SEAT: 16.5"-12" / 0.3" = 15 SEATS
MAXIMUM SEATS BETWEEN AISLES: 36 SEATS
MAXIMUM WIDTH BETWEEN AISLES: 36 X 1.5' / SEAT = 54'-0"
MAXIMUM ROW LENGTH SHOWN = 31'-6"

EXIT WIDTH CALCULATIONS:
STAIRS #1 & #2 @ 4'-7" = 9'-2"
9'-2" TOTAL STAIR EXIT WIDTH

RAMP #1 @ 4'-7" = 4'-7"
4'-7" TOTAL RAMP EXIT WIDTH

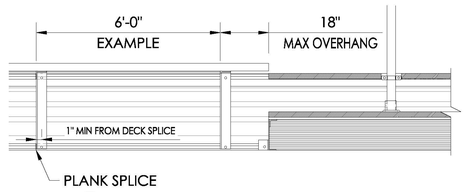
STAIR EXIT CAPACITY
9'-2" X 150 PEOPLE PER FOOT = 1375 STAIR EXIT CAPACITY FURNISHED
RAMP EXIT CAPACITY
4'-7" X 200 PEOPLE PER FOOT = 916 RAMP EXIT CAPACITY FURNISHED
2291 TOTAL EXIT CAPACITY
(ACTUAL CAPACITY 281)



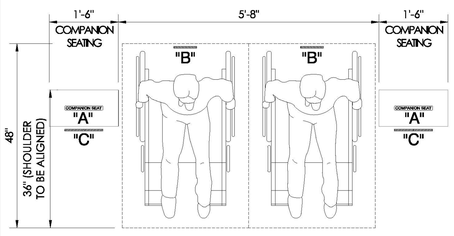

| BRACKET COUNT | | |
|---|---|---|
| * | SEATING PER SECTION | |
| | "L" BRACKETS (*" X *" JIG) | 100 |

1 / B9 **SEAT BRACKET LAYOUT**
SCALE: 3/16"=1'-0"

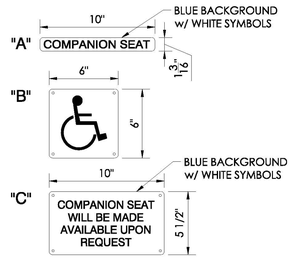
NOTE:
ALL DIMENSIONS SHOWN ON SEAT BRACKET LAYOUT
ARE TO/FROM THE WELDED EDGE OF THE BRACKET




2 / B9 **SEAT BRACKET SPACING**
NOT TO SCALE




3 / B9 **SIGN DETAIL**
NOT TO SCALE




SIGNAGE TYP. @ WHEELCHAIR AREAS
A = COMPANION: 1 3/16" X 10" PLASTIC
B = ACCESSIBLE: 6" X 6" 0.040 ALUM.
C = COMPANION: 5 1/2" X 10" 0.040 ALUM.

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REGISTERED PROFESSIONAL ENGINEER BRIAN T. DEKE S 6087 Exp. 06/30/23 STRUCTURAL STATE OF CALIFORNIA
Signed 05/05/23
PRINCIPAL

| REV. BY | DATE | DESCRIPTION |
|---|---|---|
| | | |

DATE 05/05/23 | DRAWN SMR | CHECKED DMC
JOB NUMBER #23064
SHEET B9 OF B14

TYP. SEAT BRACKET LAYOUT
12" RISE X 26" TREAD / 90'-0" (6 ROWS)
TYP.

CENTENNIAL HIGH SCHOOL-AQUATICS
CORONA NORCO UNIFIED SCHOOL DISTRICT
CORONA, CALIFORNIA

22" X 34" (11X17 = 1/2 indicated scale)

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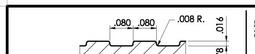
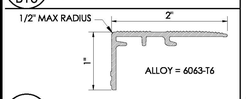
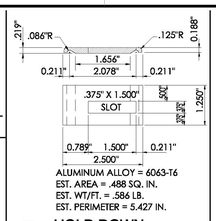


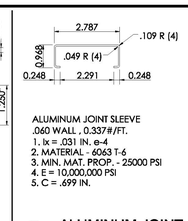

1 B10 FLUTED SURFACE DETAIL
NOT TO SCALE



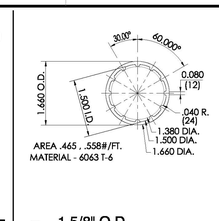

2 B10 ALUMINUM AISLE NOSING
NOT TO SCALE



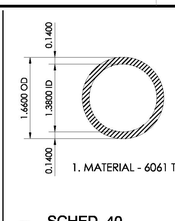

3 B10 HOLD DOWN CLIP DETAIL
NOT TO SCALE



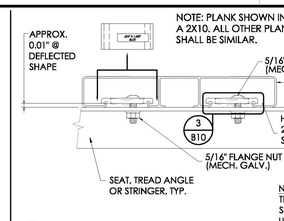

4 B10 ALUMINUM JOINT SLEEVE DETAIL
NOT TO SCALE



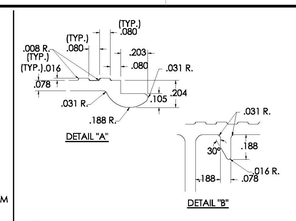

5 B10 1 5/8" O.D. ALUMINUM RAIL DETAIL
NOT TO SCALE 6063 T6



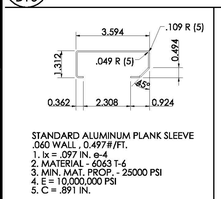

6 B10 SCHED. 40 ALUMINUM PIPE DETAIL
NOT TO SCALE



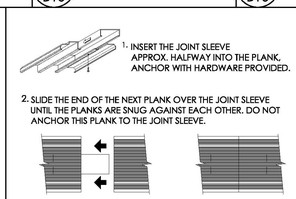

7 B10 PLANK INSTALLATION DETAIL
NOT TO SCALE



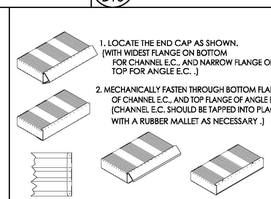

8 B10 INTERLOCK PLANK DETAIL
NOT TO SCALE



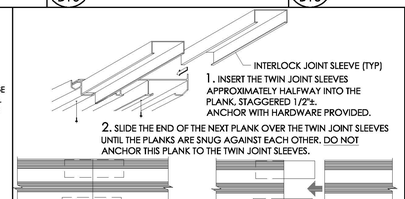

9 B10 STANDARD ALUMINUM PLANK SLEEVE
NOT TO SCALE



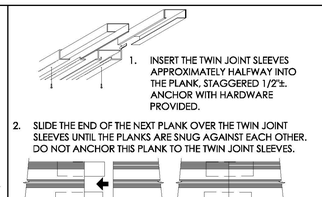

10 B10 RISER JOINT SLEEVE INSTALLATION DETAIL
NOT TO SCALE



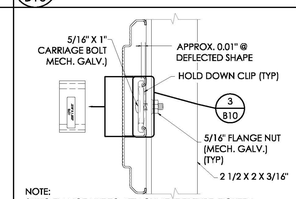

11 B10 ENDCAP INSTALLATION DETAIL
NOT TO SCALE



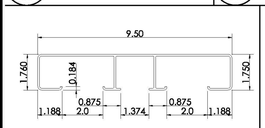

12 B10 INTERLOCK JOINT SLEEVE INSTALLATION
NOT TO SCALE



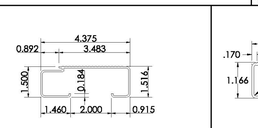

13 B10 JOINT SLEEVE INSTALLATION DETAIL
NOT TO SCALE



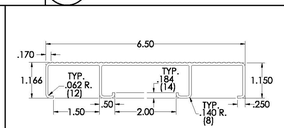

14 B10 RISER BOARD FACADE INSTALLATION DETAIL
NOT TO SCALE



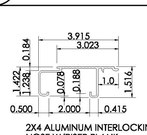

15 B10 2 X 10 HEAVY ALUMINUM PLANK DETAIL
NOT TO SCALE



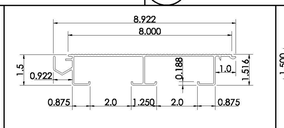

16 B10 2X4 1/2 ALUMINUM STEPNOSE PLANK DETAIL
NOT TO SCALE



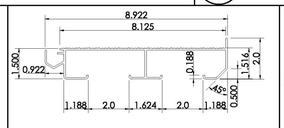

17 B10 1X6 1/2 ALUMINUM (VERT.) TOEBOARD PLANK DETAIL
NOT TO SCALE



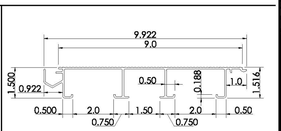

18 B10 2 X 4 ALUMINUM (NOSE W/RISER) INTERLOCKING PLANK DETAIL
NOT TO SCALE



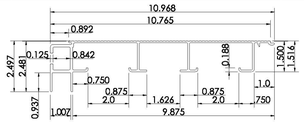

19 B10 2 X 8 ALUMINUM (DECK) INTERLOCKING PLANK DETAIL
NOT TO SCALE



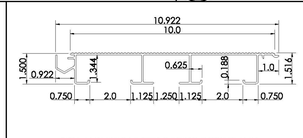

20 B10 2 X 8 ALUMINUM (HEEL) INTERLOCKING PLANK DETAIL
NOT TO SCALE



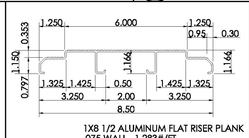

21 B10 2 X 9 ALUMINUM (DECK) INTERLOCKING PLANK DETAIL
NOT TO SCALE



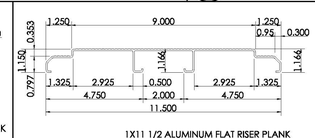

22 B10 2 X 10 ALUMINUM (2000 NOSE) INTERLOCKING PLANK DETAIL
NOT TO SCALE



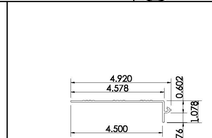

23 B10 2 X 10 ALUMINUM (DECK) INTERLOCKING PLANK DETAIL
NOT TO SCALE



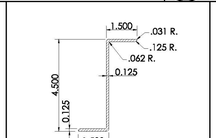

24 B10 1 X 8 1/2 ALUMINUM FLAT RISER PLANK DETAIL
NOT TO SCALE



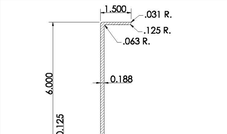

25 B10 1 X 11 1/2 ALUMINUM FLAT RISER PLANK DETAIL
NOT TO SCALE




26 B10 4 1/2" ALUMINUM STEP RISER PLANK DETAIL
NOT TO SCALE




27 B10 4 1/2" ALUMINUM "Z" BRACKET DETAIL
NOT TO SCALE




28 B10 6" ALUMINUM "Z" BRACKET DETAIL
NOT TO SCALE

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TAYLOR & SYFAN

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GRANDSTANDS • BLEACHERS • STADIUMS
PO Box One, Graham, Texas 76450
801 Fifth Street.
Phone: 940/549-0733 Fax: 940/549-1365
Established 1946

REGISTERED PROFESSIONAL ENGINEER BRIAN T. DEAN
Brian Dean
S 6087
Exp. 06/30/23
STRUCTURAL
STATE OF CALIFORNIA
Signed 05/05/23
PRINCIPAL

CENTENNIAL HIGH SCHOOL-AQUATICS
CORONA NORCO UNIFIED SCHOOL DISTRICT
CORONA, CALIFORNIA

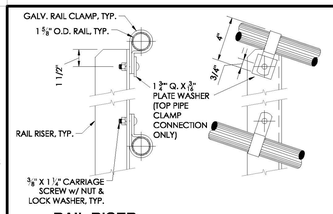
TITLE: PLANK DETAILS
SCALE: 3/4"

| REV | BY | DATE | DESCRIPTION |
|---|---|---|---|

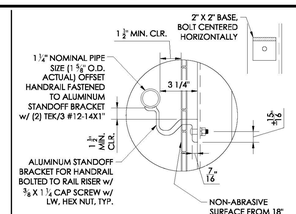
DATE 05/05/23
DRAWN SMR
CHECKED DMC
JOB NUMBER #23064
SHEET B10
OF B14

22" X 34" (11X17 = 1/2 indicated scale)

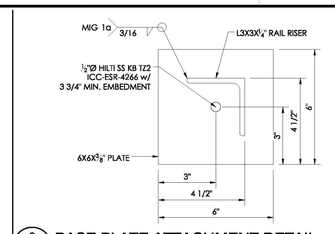
23064



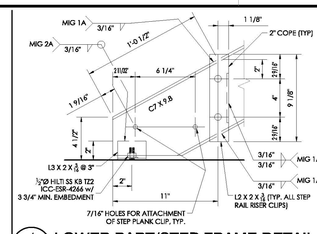

1 B11 RAIL RISER ATTACHMENT DETAIL
NOT TO SCALE



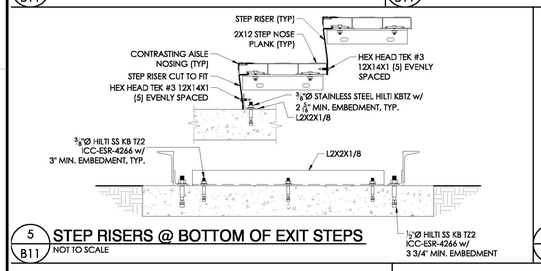

2 B11 HANDRAIL DETAIL
NOT TO SCALE



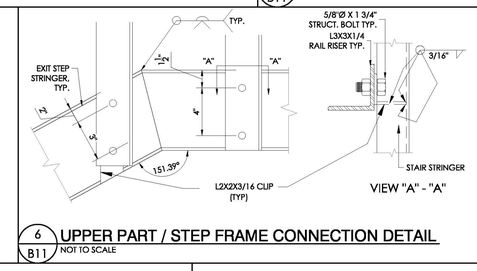

3 B11 BASE PLATE ATTACHMENT DETAIL
NOT TO SCALE



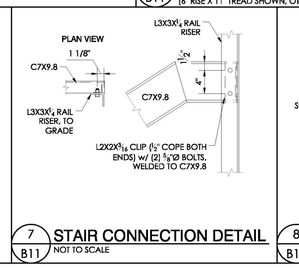

4 B11 LOWER PART/STEP FRAME DETAIL
NOT TO SCALE
(6" RISE X 11" TREAD SHOWN, OTHER RISES SIMILAR)



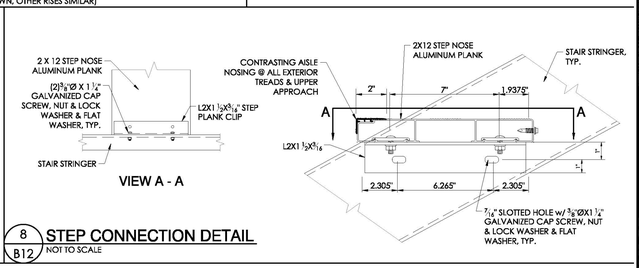

5 B11 STEP RISERS @ BOTTOM OF EXIT STEPS
NOT TO SCALE



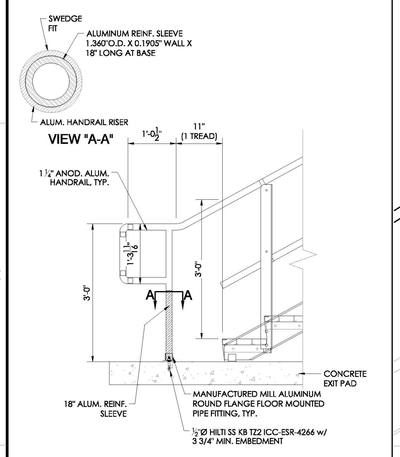

6 B11 UPPER PART / STEP FRAME CONNECTION DETAIL
NOT TO SCALE



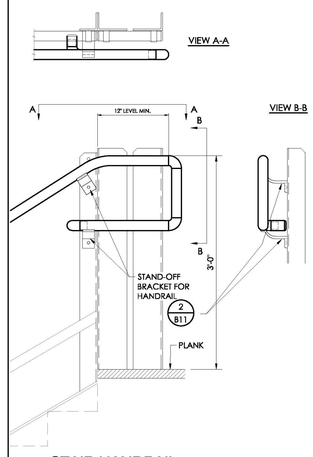

7 B11 STAIR CONNECTION DETAIL
NOT TO SCALE




8 B12 STEP CONNECTION DETAIL
NOT TO SCALE




10 B11 HANDRAIL CONNECTION DETAIL @ STAIR
NOT TO SCALE




11 B11 STAIR HANDRAIL TERMINATION DETAIL
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BRIAN T. DEXTER
S 6087
Exp. 06/30/23
STRUCTURAL
STATE OF CALIFORNIA

Signed 05/05/23
PRINCIPAL

| NO. | DATE | DESCRIPTION |
|---|---|---|
| | | |

| DATE | DRAWN | CHECKED |
|---|---|---|
| 05/05/23 | SMR | DMC |

JOB NUMBER #23064

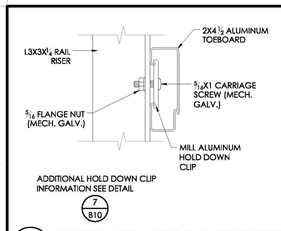
SHEET B11 OF B14

TITLE: EXIT DETAILS

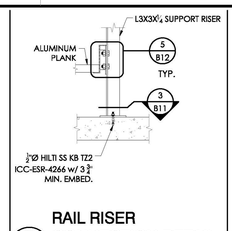
CENTENNIAL HIGH SCHOOL-AQUATICS
CORONA NORCO UNIFIED SCHOOL DISTRICT
CORONA, CALIFORNIA

22" X 34" (11X17 = 1/2 indicated scale)

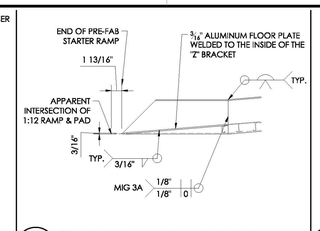
23064



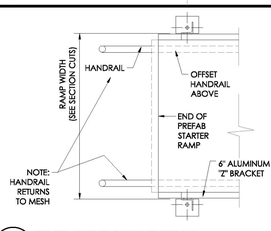

1 B12 **TOEBOARD ATTACHMENT DETAIL**
NOT TO SCALE



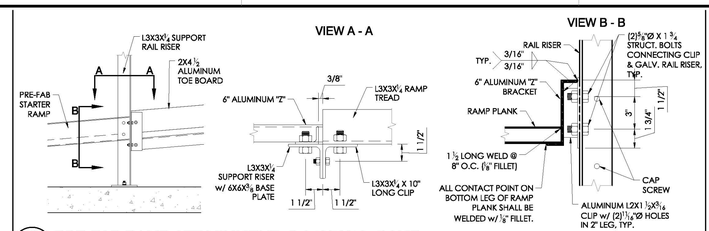

2 B12 **RAIL RISER CONNECTION DETAIL**
NOT TO SCALE



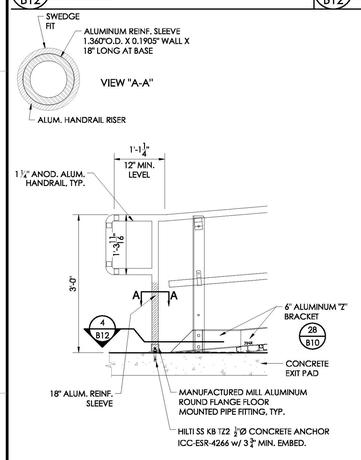

3 B12 **STARTER RAMP WELD DETAIL**
NOT TO SCALE



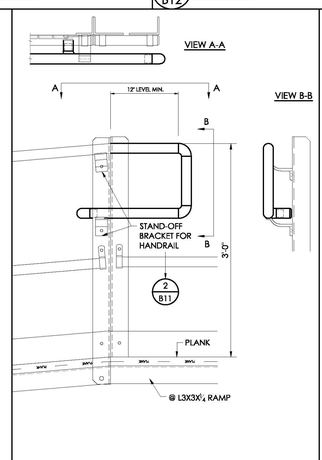

4 B12 **END OF RAMP DETAIL**
NOT TO SCALE



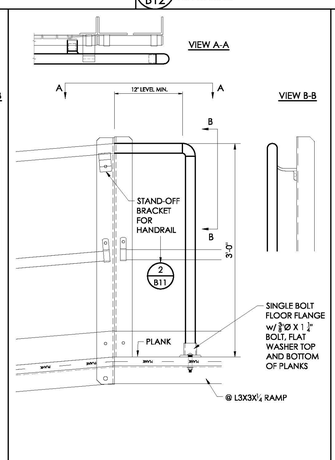

5 B12 **PRE-FAB RAMP ATTACHMENT @ L3X3X1/4 RAMP**
NOT TO SCALE




6 B12 **HANDRAIL CONNECTION DETAIL @ RAMP**
NOT TO SCALE




7 B12 **TOP RAMP HANDRAIL TERMINATION DETAIL**
NOT TO SCALE




8 B12 **INTERMEDIATE RAMP HANDRAIL TERMINATION DETAIL**
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Phone: 940/549-0733 Fax: 940/549-1365
Established 1946

REGISTERED PROFESSIONAL ENGINEER BRIAN T. DEAN S 6087 Exp. 06/30/23 STRUCTURAL STATE OF CALIFORNIA

Signed 05/05/23 PRINCIPAL

| REV | BY | DATE | DESCRIPTION |
|---|---|---|---|

TYP EXIT DETAILS

TLE CENTENNIAL HIGH SCHOOL-AQUATICS
CORONA NORCO UNIFIED SCHOOL DISTRICT
CORONA, CALIFORNIA

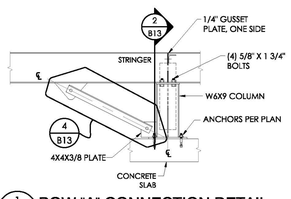
| DATE | DRAWN | CHECKED |
|---|---|---|
| 05/05/23 | SMR | DMC |

JOB NUMBER #23064

SHEET B12 OF B14

22"X 34" (1:1x1.7 = 1/2 indicated scale)

23064




1 B13 **ROW "A" CONNECTION DETAIL**
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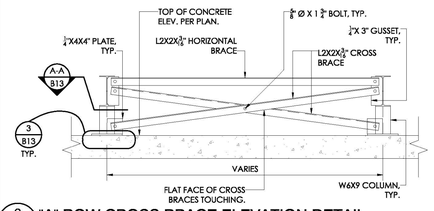


2 B13 **"A" ROW CROSS BRACE ELEVATION DETAIL**
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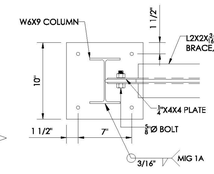
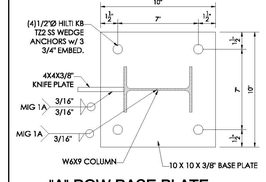
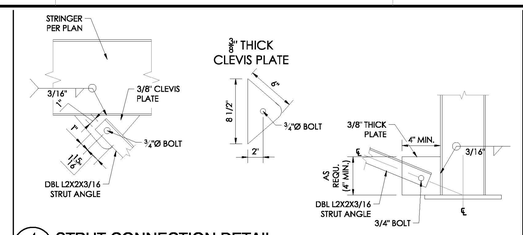



A-A




3 B13 **"A" ROW BASE PLATE ATTACH. DETAIL**
NOT TO SCALE

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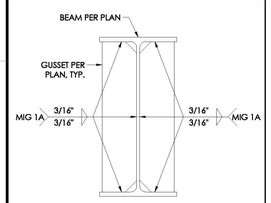


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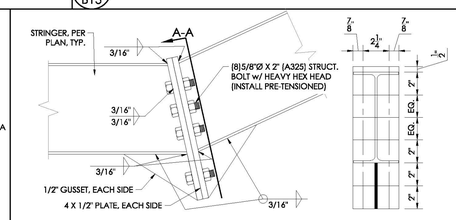


A-A

6 B13 **SNOOTER CONNECTION DETAIL**
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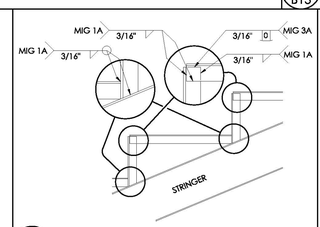


7 B13 **ANGLE FABRICATION DETAIL**
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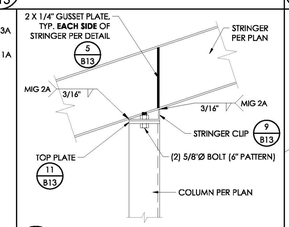


8 B29 **"B" ROW COLUMN CONNECTION**
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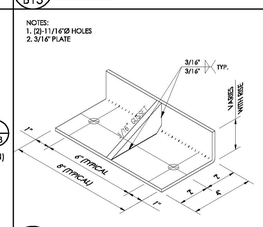


9 B13 **"B" ROW STRINGER CLIP DETAIL**
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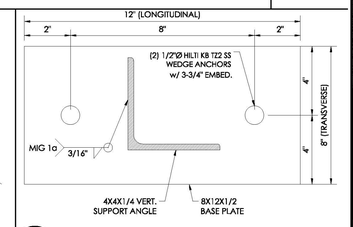


10 B13 **"B" ROW BASE PLATE ATTACH. DETAIL**
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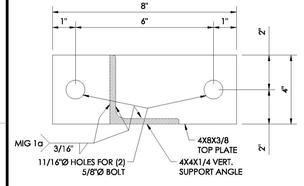


11 B13 **"B" ROW TOP PLATE ATTACH. DETAIL**
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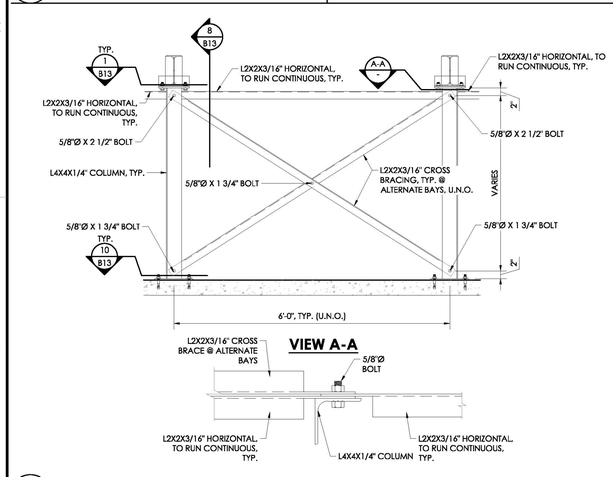


12 B13 **L4X4X1/4" COLUMNS CROSSBRACING ELEVATION DETAIL**
NOT TO SCALE

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Southern BLEACHER COMPANY
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Established 1946

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TAYLOR & SYFAN

REGISTERED PROFESSIONAL ENGINEER
BRIAN T. DEAN
S 6087
Exp. 06/30/23
STRUCTURAL
STATE OF CALIFORNIA
Signed 05/05/23
PRINCIPAL

| NO. | REV. BY | DATE | DESCRIPTION |
|---|---|---|---|

DATE 05/05/23 | DRAWN SMR | CHECKED DMC

JOB NUMBER #23064

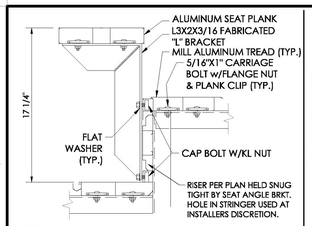
SHEET B13 | OF B14

TITLE: GRANDSTAND DETAILS

TITLE: CENTENNIAL HIGH SCHOOL-AQUATICS
CORONA NORCO UNIFIED SCHOOL DISTRICT
CORONA, CALIFORNIA

22" X 34" (11X17 = 1/2 indicated scale)

23064




1 B14 "L" BRACKET DETAIL
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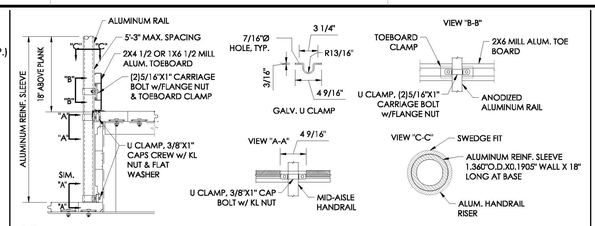


2 B14 RAIL ATTACHMENT DETAIL
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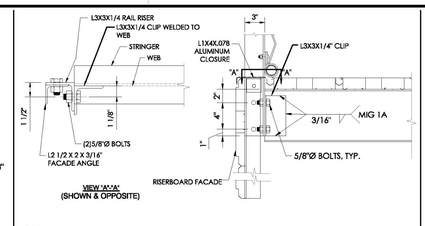


3 B14 FRONT RAIL RISER ATTACHMENT DETAIL
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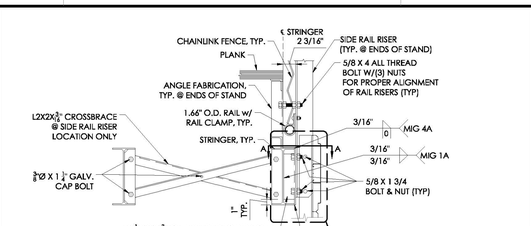


4 B14 SIDE RAIL RISER ATTACHMENT DETAIL
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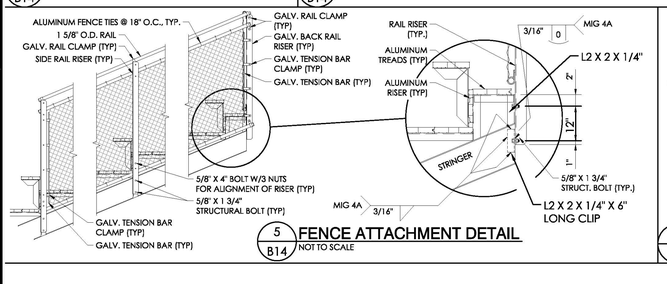


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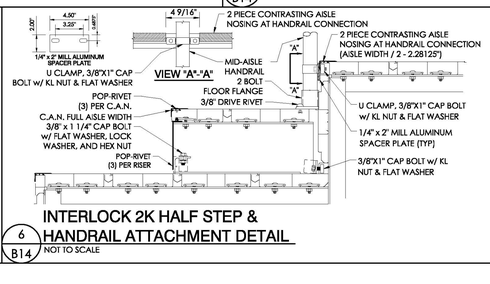


6 B14 INTERLOCK 2K HALF STEP & HANDRAIL ATTACHMENT DETAIL
NOT TO SCALE


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REGISTERED PROFESSIONAL ENGINEER
BRIAN T. DEXTER
S 6087
Exp. 06/30/23
STRUCTURAL
STATE OF CALIFORNIA

Signed 05/05/23

PRINCIPAL

TITLE: GRANDSTAND DETAILS

TITLE: CENTENNIAL HIGH SCHOOL-AQUATICS
CORONA NORCO UNIFIED SCHOOL DISTRICT
CORONA, CALIFORNIA

| NO. | REV. BY | DATE | DESCRIPTION |
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| | | | |

| DATE | DRAWN | CHECKED |
|---|---|---|
| 05/05/23 | SMR | DMC |

JOB NUMBER #23064

SHEET B14 OF B14

22" X 34" (11X17 = 1/2 indicated scale)

23064

# GENERAL NOTES:

## APPLICABLE BUILDING CODE

All construction and workmanship shall conform to the 2022 California Building Code, California Code of Regulations – Title 24, Parts 1 & 2.

This pole and foundation standard has been designed for lateral loads on the completed structure as follows:

Wind Design Data:
- Vult = 96 MPH (Exposure C); Vasd = 74 MPH (Exposure C)
- Risk Category = II
- See Pole Foundation Schedule for maximum pole wind forces.

Seismic Design Data:
- Ie = 1.0
- Risk Category = II (Self Supporting Poles)
- $S_s$ = 2.032
- $S_1$ = 0.799
- Site Class = D
- $S_{ms}$ = 1.355
- $S_{ds}$ = 0.906
- Seismic Design Category = D
- Basic Seismic-Force-Resisting System = Non-Building Structure, not similar to buildings
- Cs = 0.496 (60A); 0.505 (60B). (STRENGTH LEVEL)
- R = 1.5
- Ω = 1.5
- Analysis Procedure = Equivalent Lateral Force Procedure
- See Pole Foundation Schedule for maximum pole seismic forces.

## GENERAL CONSTRUCTION

These notes shall be used in conjunction with the plans and any discrepancies shall be brought to the attention of the Registered Design Professional (RDP) in Responsible Charge.

Contractor must check all dimensions, clearances and job conditions before starting work. The RDP in Responsible Charge shall be notified immediately of any discrepancies or possible deficiencies.

The drawings and specifications represent the finished structure. All bracing, temporary supports, shoring, etc., is the sole responsibility of the Contractor. Observation visits to the job site by the RDP in Responsible Charge do not include inspection of construction procedures. The Contractor is solely responsible for all construction methods and for safety conditions at the worksite. These visits by RDP in Responsible Charge shall not be construed as continuous and detailed inspections.

Design, material, equipment, and products other than those described below or indicated on the drawings may be considered for use, provided prior approval is obtained from the School District, the RDP in Responsible Charge, and DSA.

All changes to the approved plans after a contract for construction has been awarded, affecting structural, access or life-safety portions of the project, shall be made by means of construction change documents (CCD) approved by DSA, as required by Section 4-338, Part 1, Title 24, CCR. All CCD shall be prepared and signed by the RDP in general Responsible Charge.

Substitutions shall be considered as a CCD and shall be approved by DSA prior to fabrication or use.

A Class 1 or Class 2 Project Inspector employed by the School District (Owner) and approved by DSA shall provide continuous inspection of the work, the duties of the Inspector are defined in Section 4-342, Part 1, Title 24, CCR.

All Tests And Inspections shall be performed by an Independent lab employed by the School District and approved by DSA.

Reference pole location on the Architectural, Structural, and/or Electrical drawings for actual pole placement and site location. Pole shall be located 5'-0" min. from adjacent structures below 50'-0" A.G.L., unless noted otherwise.

## LIGHT POLE FOUNDATIONS

Reference geotechnical report prepared by Leighton Consulting Inc., Dated September 2, 2022; Project no. 13624.001.

Allowable Vertical soil Capacity – 1,500 PSF (End Bearing), 100 PSF (Skin Friction).

Allowable Lateral Bearing capacity. 100 PSF/FT. Value may be doubled for piers not affected by 0.5 inch motion at ground surface. Ignore upper 18 inches of soil at unpaved areas.

A representative of Leighton should be available at the time of the foundation installation to verify the soil design parameters and to provide assistance if any problems arise in foundation installation.

The Contractor must familiarize himself with the complete geotechnical report, and borings and contact the above firm to understand the soil conditions and the possibility of ground water pumping and excavation stabilization or bracing during the foundation installation and placement of concrete.

Soil formations that will require special design considerations or excavation procedures may exist. Pole foundations may need to be reanalyzed according to the soil conditions that exist.

If any discrepancies or inconsistencies arise, notify the RDP in Responsible Charge of such discrepancies.

All piers and concrete must bear on and against firm undisturbed soil as determined by the Geotechnical Engineer.

Place plywood collar around perimeter at the top of foundation excavation to prevent soil from entering pier.

All excavations must be free of loose soil, and debris prior to foundation installation and placement of concrete. Casing or drilling slurry may be required if caving occurs. Review and approval of the Geotechnical Engineer and DSA is required.

All excavations must be free of water or concrete shall be placed by the Tremie Method in accordance with ACI standard 336. Concrete placed by the Tremie Method shall have a minimum ultimate strength of 1,000 PSI greater than required under "Concrete Cast-in-Place" and a maximum slump of 8".

## CONCRETE (CAST-IN-PLACE)

Concrete pier foundations with steel reinforcement shall attain a minimum ultimate compressive strength at 28 day test of 3,000 psi. Batch plant inspection not required.

All concrete shall attain a minimum strength of 2,500 psi prior to steel pole erection.

Use Type II/V Portland cement or as directed by the Geotechnical Engineer.

Portland Cement ASTM C-150.

Aggregate ASTM C-33. 1" maximum aggregate size. ⅜" max agg. size not permitted.

Mix in conformance with ASTM C-94, ACI 318 SECTIONS 19.2 and 26.4.

Place concrete immediately after completion of excavation and inspection by the Geotechnical Engineer and the DSA Inspector. Under no circumstances shall piers be allowed to remain open for more than 12 hours without the approval of the Geotechnical Engineer. Excavations shall be covered and protected until filled with concrete.

Concrete shall be placed in one continuous operation (no construction joint) with special equipment to assure a maximum freefall of 5 ft and to prevent concrete from striking the sides of the excavation. Freefall of concrete is unacceptable through water or drilling slurry.

Vibrate concrete full depth, except for concrete with slump greater than 6", then vibrate only upper 10'-0". Concrete placed under water shall have a slump of 6"-8".

## STEEL POLE

Steel pole sections conform to the California Code of Regulations T.24, Part 2, Chapter 22A.

All steel conforms to referenced ASTM specifications. (See Pole Data Table for each pole type).

All weldment conforms with AWS D1.1-15 specification for GMAW fillet utilizing E70S-X filler metal or SAW fillet utilizing F7XX-EXXX or F8XX-EXXX filler metal.
GMAW procedure conforms to AWS A5.18.
SAW procedure conforms to AWS A5.23.

Longitudinal seam welds for pole sections shall have 60% minimum penetration; Except longitudinal seam welds on the female section of telescopic field splices shall be full penetration groove welds for a length equal to the minimum splice length plus 6 inches. See drawing number MD1 for seam weld details.

Pole sections hot dipped galvanized to ASTM A123 latest standards.

All miscellaneous structural steel items conform to AISC 360-16.

Steel pole sections shall be assembled in the field by attaching two 1.5 ton "come alongs" to jacking ears, using full effort on each simultaneously, to ensure minimum overlaps as indicated on the "MS" sheet(s) and detail G/MD1.

## PRECAST BASE

The precast concrete base conforms to California Code of Regulations, T.24, part 2, Chapter 19A and to Building Code Requirements for Reinforced Concrete, ACI 318-19.

See detail "A" on "MS" sheet(s) for material strengths and specifications.

## TESTING AND INSPECTION

Testing and inspection in accordance with Title 24, Part 1 & Part 2 & project DSA 103 form.

EXCAVATIONS & FOUNDATIONS:
Inspection of cast-in-place deep foundations – 1705A.8 & Table 1705A.8

CONCRETE MATERIALS: 1903A.1
Portland cement – 1910A.1
Concrete aggregates – 1903A.5
Reinforcing bars – 1910A.2 & DSA IR 17-10
Prestressing steel and anchorages – 1910A.3

CONCRETE QUALITY:
Proportions of concrete – Reference ACI 318 Section 26.4.3.1 Through 26.4.4.1.
Strength tests of concrete – 1905A.1.15 and ACI 318 Section 26.12 & 26.5.3.2.

CONCRETE INSPECTION: 1705A.3 & Table 1705A.3
Job site – Reference ACI 318 Section 26.5.1,26.5.2.1(a) & (b),26.6.1.2(d), 26.11.1.1(a).
Batch Plant Inspection Not Required – 1705A.3.3.2
Prestressed concrete – 1704A.2.5, 1705A.3.4

STEEL MATERIALS:
Structural steel – 2202A.1 & 2205A.1
Cold formed steel – 2210A.1
Identification – 2202A.1

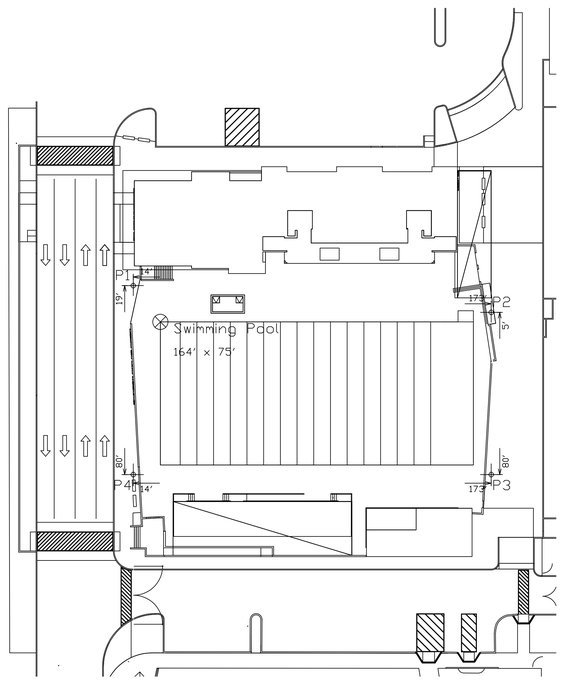
STEEL QUALITY:
Tests of structural steel & cold formed steel – 2202A.1

STRUCTURAL STEEL INSPECTIONS: Table 1705A.2.1
Shop fabrication inspection – 1704A2.5
Welding – 1705A.2.5, DSA IR 17-3 and AWS D1.1.
(NOTE: ALL WELDING SHALL BE CONTINUOUSLY INSPECTED BY AN AWS CWI CERTIFIED INSPECTOR APPROVED BY DSA)

These plans are for construction approval. An application number and approval of these drawings by the Division of The State Architect of California must be secured to build from these plans.

## INDEX OF SHEETS

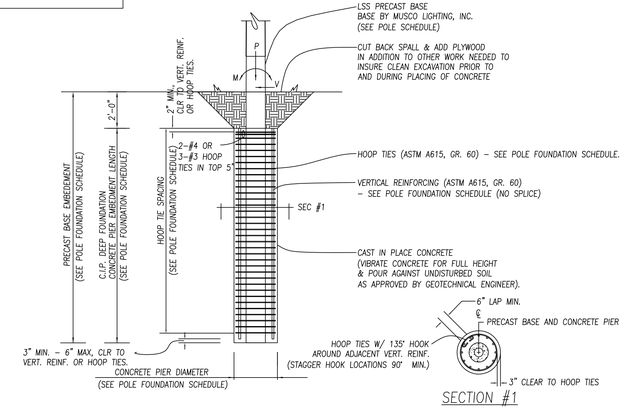

| | |
|---|---|
| MT1 | NOTES, FOUNDATION DETAIL |
| MS1 | 60B POLE DETAILS |
| MS2 | 60A POLE DETAILS |
| MD1 | ATTACHMENT DETAILS |
| MD2 | ATTACHMENT DETAILS |
| MD3 | ATTACHMENT DETAILS |


POLE ORIENTATION PLAN

N.T.S.

NOTE: THIS PLAN IS A PICTORAL REPRESENTATION OF THE SITE LAYOUT. REFERENCE APPROPRIATE ARCHITECTURAL SITE PLAN FOR ALL NECESSARY INFORMATION.




SECTION #1

A REINFORCED FOUNDATION DETAIL

N.T.S. DSA-A2-CASFND_A

## POLE FOUNDATION SCHEDULE

| POLE TYPE-# OF FIXTURES (MAX) (LSS=LIGHT STRUCTURE) | MARK (SEE POLE ORIENTATION PLAN) | WIND OR SEISMIC (SEISMIC FORCE INCLUDES OVERSTRENGTH FACTOR=1.5) | ASD LEVEL FORCES (MAX) | | | C.I.P. DEEP FOUNDATION | | | | PRECAST BASE |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | MOMENT (M) FT-LBS* | SHEAR (V) LBS | VERTICAL (P) LBS** | DIAMETER INCHES | EMBEDMENT FEET (SEE NOTE BELOW) | VERTICAL REINFORCING (ASTM A615, GR 60) | HOOP TIE SIZE & SPACING (ASTM A615, GR 60) | EMBEDMENT FEET |
| LSS60A-3 | P2, P3 | SEISMIC | 39,600 | 996 | 1,913 | 36" | 8'-0" | 8-#8 | #4 @ 6" O.C. TOP 9'-0" & #4 @ 12" O.C. BELOW | 10'-0" |
| | | WIND | 34,200 | 836 | 1,123 | | | | | |
| LSS60B-3 | P1, P4 | SEISMIC | 56,700 | 1,369 | 2,585 | 36" | 10'-0" | 8-#8 | #4 @ 6" O.C. TOP 9'-0" & #4 @ 12" O.C. BELOW | 12'-0" |
| | | WIND | 41,500 | 1,036 | 1,491 | | | | | |

*Moment (M) computed below grade at Shear (V) = 0.
**Vertical (P) load includes steel pole, light fixtures, and attachments. Vertical (P) load for wind is the dressed pole weight for erection purposes. Vertical (P) load for seismic also includes weight of precast base above groundline. Reference Detail "A" on MS Sheet(s) for precast base weight.
Note:
Final Embedment to be determined in the field by the Geotechnical Engineer of Record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DSA-TITLE1_E

Centennial HS Aquatic
FIELD LIGHTING
Corona, CA

FOR PLAN CHECK ONLY


CONSULTANT
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www.knastructural.com
KNA JOB NO.: 463.181



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CORPORATE OFFICE:
P.O. Box 808
100 1st Avenue West
Oskaloosa, Iowa 52577
800/825-6020

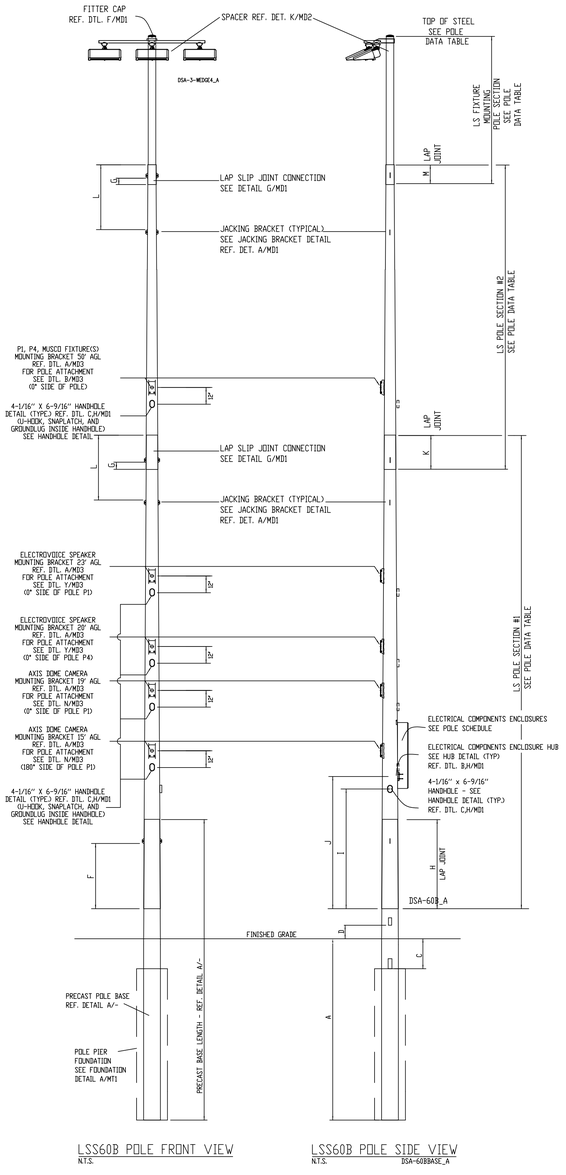

DRAWING TITLE: NOTES, FOUNDATION DETAIL
SCALE: SEE PLAN
REVISIONS
REFERENCE:

PROJECT NO. 225011

DATE: 04/24/2023

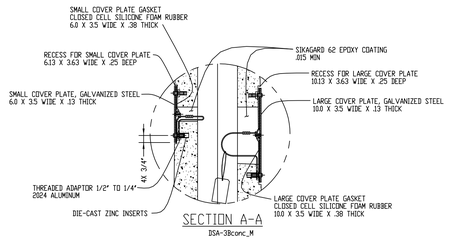
DRAWN BY: C.Hensley

DRAWING NO. MT1
1 OF 6

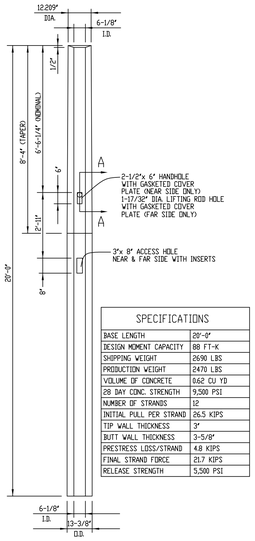



LSS60B POLE FRONT VIEW
N.T.S.

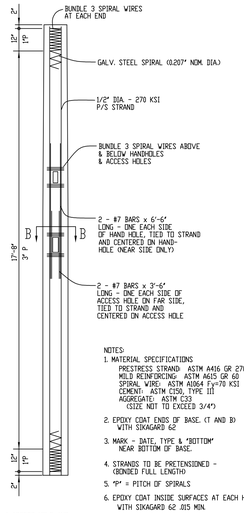


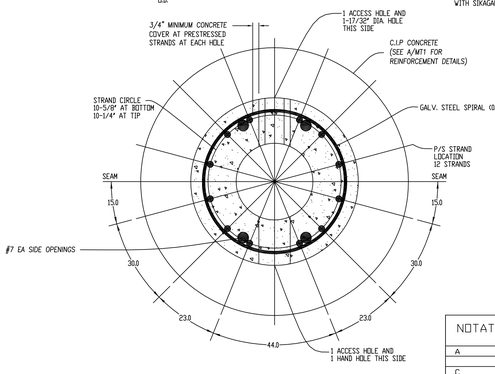

SECTION A-A
DSA-3Bconc_M




| SPECIFICATIONS | |
|---|---|
| BASE LENGTH | 20'-0" |
| DESIGN MOMENT CAPACITY | 88 FT-K |
| SHIPPING WEIGHT | 2690 LBS |
| PRODUCTION WEIGHT | 2470 LBS |
| VOLUME OF CONCRETE | 0.62 CU YD |
| 28 DAY CONC. STRENGTH | 9,500 PSI |
| NUMBER OF STRANDS | 12 |
| INITIAL PULL PER STRAND | 26.5 KIPS |
| TIP WALL THICKNESS | 3" |
| BUTT WALL THICKNESS | 3-5/8" |
| PRESTRESS LOSS/STRAND | 4.8 KIPS |
| FINAL STRAND FORCE | 21.7 KIPS |
| RELEASE STRENGTH | 5,500 PSI |



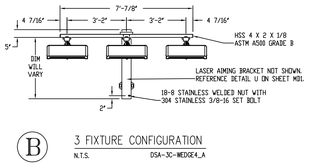

NOTES:
1. MATERIAL SPECIFICATIONS
   PRESTRESS STRAND: ASTM A416 GR 270 (LOW RELAXATION)
   MILD REINFORCING: ASTM A615 GR 60
   SPIRAL WIRE: ASTM A1064 Fy=70 KSI
   CEMENT: ASTM C150, TYPE III
   AGGREGATE: ASTM C33
   (SIZE NOT TO EXCEED 3/4")
2. EPOXY COAT ENDS OF BASE. (T AND B)
   WITH SIKAGARD 62
3. MARK - DATE, TYPE & "BOTTOM"
   NEAR BOTTOM OF BASE.
4. STRANDS TO BE PRETENSIONED -
   DEBONDED FULL LENGTH)
5. "P" = PITCH OF SPIRALS
6. EPOXY COAT INSIDE SURFACES AT EACH HOLE
   WITH SIKAGARD 62 .015 MIN.



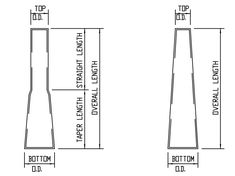

PLAN SECTION B-B

A TYPE 3B PRECAST BASE DETAIL
N.T.S. DSA-3Bconc_M

| NOTATION | DIMENSION LSS60B |
|---|---|
| A | 12'-0" |
| | |
| C | 2'-0" NOM. |
| D | 1'-0" NOM. |
| | |
| F | 4'-4" NOM. |
| G | 1'-6" |
| H | 5'-11 3/8" NOM. 5'-3 3/4" MIN. |
| | |
| I | 7'-7 1/2" NOM. |
| J | 8'-9 1/2" NOM. |
| K | 3'-7 1/4" NOM. 1'-10 1/4" MIN. |
| L | 4'-7" NOM. |
| | |
| M | 1'-10" NOM. 1'-3 3/4" MIN. |

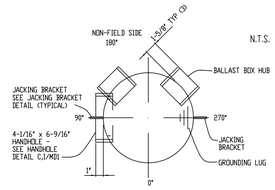



B 3 FIXTURE CONFIGURATION
N.T.S. DSA-3C-WEDGE4_A




FIXTURE MOUNTING
POLE SECTION

TOP/MIDDLE/BOTTOM
POLE SECTION




POLE ORIENTATION
N.T.S.

1. CONTAINS COMBINED EPA OF LIGHT FIXTURES, CROSS ARM AND MISCELLANEOUS FIXTURE MOUNTING APPARATUS.

FIXTURE WEIGHT 51 LBS. THIS INCLUDES THE WEIGHT OF FIXTURE, CROSS ARM & MISC. MOUNTING APPARATUS. ELECTRICAL BALLAST BOX WEIGHT 20 LBS PER FIXTURE SERVICED.

| POLE SCHEDULE | | | | | | |
|---|---|---|---|---|---|---|
| SITE LOCATION | POLE MARK | REFERENCE LOCATION | POLE TYPE | FIXTURE CONFIGURATION | TOTAL EPA[1] | BALLAST BOX REQUIREMENTS |
| SEE SITE PLAN (BY OTHERS) | P1, P4 | SEE POLE ORIENTATION PLAN | LSS60B | 3 - SEE DETAIL B/MS1 | 9.0 | SEE DETAIL P.D./MD1 |

DSA-POLESCHE_C

| POLE DATA TABLE | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| POLE TYPE | PIECE MARK | MAX NUMBER OF X-Arms | POLE SECTION | TOP O.D. (INCHES) | BTM. O.D. (INCHES) | OVERALL LENGTH | STRAIGHT LENGTH | TAPER LENGTH | THICKNESS (INCHES) | TOP OF STEEL NOMINAL | ASTM REFERENCE |
| LSS60B | LS-2012 | 2 | FIXTURE MOUNTING | 6.000" | 6.855" | 12'-7 1/2" | 10'-9 1/2" | 1'-10" | .120 | 64'-10 1/4" | A513 (Fy=38ksi) |
| | MP-1TTDSA-1 | | #2 | 6.320" | 9.630" | 23'-7 3/4" | ----- | 23'-7 3/4" | .120 | ----- | A595A (Fy=55 ksi) or A572, Gr 55 or 65 |
| | MP-3BT-D | | #1 | 8.886" | 13.400" | 32'-2 7/8" | ----- | 32'-2 7/8" | .179 | ----- | A595A (Fy=55 ksi) or A572, Gr 55 or 65 |
| | MP-3BDSA | | PRECAST BASE | FOR PRECAST MEMBER PROPERTIES SEE PRECAST BASE DETAIL A/- | | | | | | |

DSA-60BDT_J

DSA-60_A

# Centennial HS Aquatic
# FIELD LIGHTING
# Corona, CA

PROFESSIONAL ENGINEER * TIMOTHY J. TIBBITTS * No. 38938 * STATE OF CALIFORNIA
Exp. 06-30-23
FOR PLAN CHECK ONLY

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KNA STRUCTURAL ENGINEERS
931 Calle Negocio, Suite F, San Clemente, CA 92673
Tel (949) 492-3200 • Fax (949) 492-3201
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KNA JOB NO.: 463.181

musco Lighting
CORPORATE OFFICE:
P.O. Box 808
100 1st Avenue West
Oskaloosa, Iowa 52577
800/825-6020

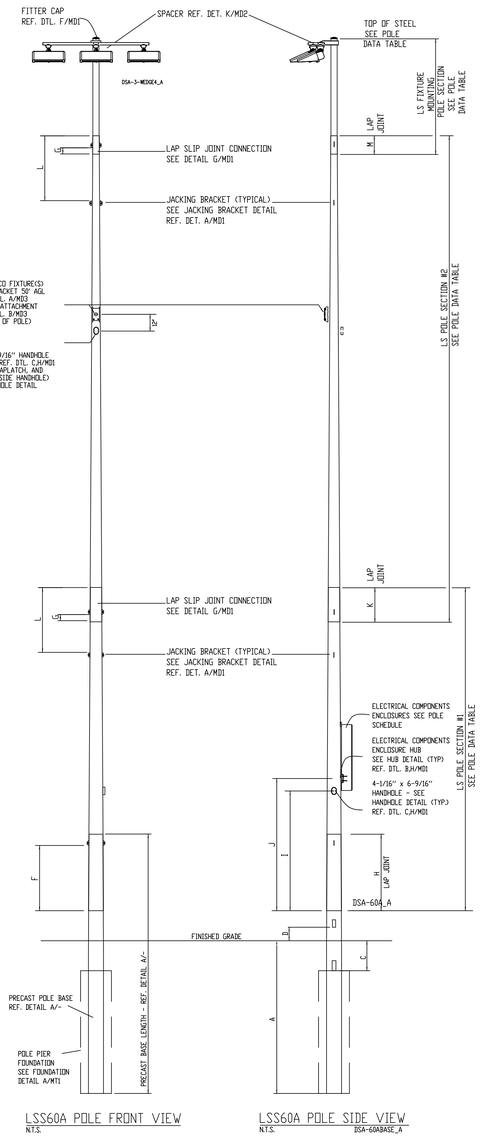
DRAWING TITLE: POLE DETAIL
SCALE: SEE PLAN
REVISIONS
REFERENCE:

PROJECT NO. 225011

DATE: 04/24/2023

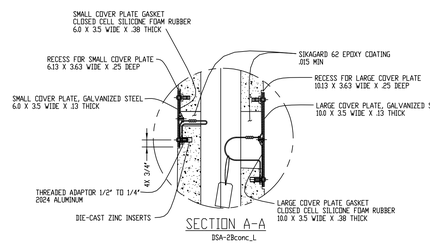
DRAWN BY: C.Hensley

DRAWING NO. MS1
2 OF 6

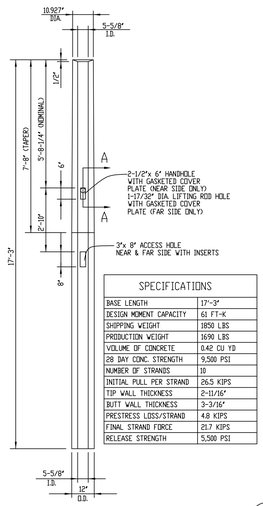



LSS60A POLE FRONT VIEW
N.T.S.

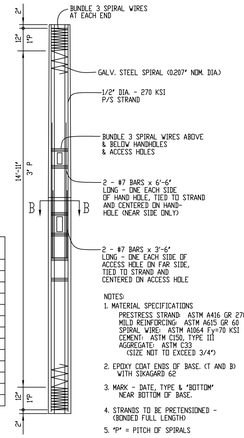
LSS60A POLE SIDE VIEW
N.T.S. DSA-60ABASE_A



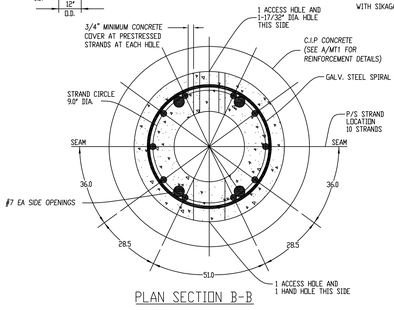

SECTION A-A
DSA-28conc_L




| SPECIFICATIONS | |
|---|---|
| BASE LENGTH | 17'-3" |
| DESIGN MOMENT CAPACITY | 63 FT-K |
| SHIPPING WEIGHT | 1850 LBS |
| PRODUCTION WEIGHT | 1690 LBS |
| VOLUME OF CONCRETE | 0.42 CU YD |
| 28 DAY CONC. STRENGTH | 9,500 PSI |
| NUMBER OF STRANDS | 10 |
| INITIAL PULL PER STRAND | 26.5 KIPS |
| TIP WALL THICKNESS | 2-11/16" |
| BUTT WALL THICKNESS | 3-3/16" |
| PRESTRESS LOSS/STRAND | 4.8 KIPS |
| FINAL STRAND FORCE | 21.7 KIPS |
| RELEASE STRENGTH | 5,500 PSI |



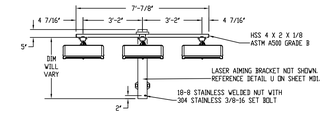

NOTES:
1. MATERIAL SPECIFICATIONS
PRESTRESS STRAND: ASTM A416 GR 270 (LOW RELAXATION)
MILD REINFORCING: ASTM A615 GR 60
SPIRAL WIRE: ASTM A1064 Fy=70 KSI
CEMENT: ASTM C150, TYPE III
AGGREGATE: ASTM C33
(SIZE NOT TO EXCEED 3/4")
2. EPOXY COAT ENDS OF BASE. (T AND B)
WITH SIKAGARD 62
3. MARK - DATE, TYPE & "BOTTOM"
NEAR BOTTOM OF BASE.
4. STRANDS TO BE PRETENSIONED -
(BONDED FULL LENGTH)
5. "S" = PITCH OF SPIRALS
6. EPOXY COAT INSIDE SURFACES AT EACH HOLE
WITH SIKAGARD 62 .015 MIN.



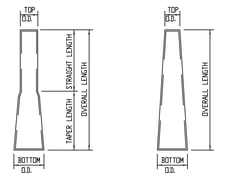

PLAN SECTION B-B

A TYPE 2B PRECAST BASE DETAIL
N.T.S. DSA-28conc_L

| NOTATION | DIMENSION LSS60A |
|---|---|
| A | 10'-0" |
| | |
| C | 2'-0" NOM. |
| D | 1'-0" NOM. |
| | |
| F | 4'-4" NOM. |
| G | 1'-6" |
| H | 5'-1 1/4" NOM. 4'-7 3/8" MIN. |
| | |
| I | 7'-7 1/2" NOM. |
| J | 8'-9 1/2" NOM. |
| K | 3'-7 1/4" NOM. 1'-10 1/4" MIN. |
| L | 4'-7" NOM. |
| M | 1'-8" NOM. 11 1/2" MIN. |
| | 1'-8" NOM. 1'-0 3/8" MIN. |

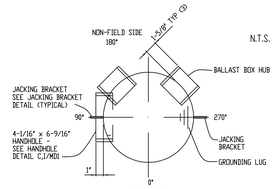



B 3 FIXTURE CONFIGURATION
N.T.S. DSA-3C-MEDGE4_A




FIXTURE MOUNTING POLE SECTION

TOP/MIDDLE/BOTTOM POLE SECTION




POLE ORIENTATION
N.T.S.

1. CONTAINS COMBINED EPA OF LIGHT FIXTURES, CROSS ARM AND MISCELLANEOUS FIXTURE MOUNTING APPARATUS.

FIXTURE WEIGHT 510 LBS. THIS INCLUDES THE WEIGHT OF FIXTURE, CROSS ARM & MISC. MOUNTING APPARATUS, ELECTRICAL BALLAST BOX WEIGHT 20 LBS PER FIXTURE SERVICED

| POLE SCHEDULE | | | | | | |
|---|---|---|---|---|---|---|
| SITE LOCATION | POLE MARK | REFERENCE LOCATION | POLE TYPE | FIXTURE CONFIGURATION | TOTAL EPA[1] | BALLAST BOX REQUIREMENTS |
| SEE SITE PLAN (BY OTHERS) | P2, P3 | SEE POLE ORIENTATION PLAN | LSS60A | 3 - SEE DETAIL B/MS2 | 9.3 | SEE DETAIL P,Q,/MD1 |

DSA-POLESCHE_C

| POLE DATA TABLE | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| POLE TYPE | PIECE MARK | MAX NUMBER OF X-ARMS | POLE SECTION | TOP O.D. (INCHES) | BTM. O.D. (INCHES) | OVERALL LENGTH | STRAIGHT LENGTH | TAPER LENGTH | THICKNESS (INCHES) | TOP OF STEEL NOMINAL | ASTM REFERENCE |
| LSS60A | LS-2000 | 1 | FIXTURE MOUNTING | 4.750" | 5.081" | 5'-3" | 3'-7" | 1'-8" | .120 | 60'-2 7/8" | A513 (Fy=38ksi) |
| | MP-1TOSA | | #2 | 4.596" | 9.630" | 35'-11 1/2" | ----- | 35'-11 1/2" | .120 | ----- | A595A (Fy=55 ksi) or A572, Gr 55 or 65 |
| | MP-1BT-D | | #1 | 8.886" | 12.000" | 22'-2 7/8" | ----- | 22'-2 7/8" | .179 | ----- | A595A (Fy=55 ksi) or A572, Gr 55 or 65 |
| | MP-2BDSA | | PRECAST BASE | FOR PRECAST MEMBER PROPERTIES SEE PRECAST BASE DETAIL A/- | | | | | | | |

DSA-60ASBT_H

DSA-60_A

# Centennial HS Aquatic
# FIELD LIGHTING
# Corona, CA

FOR PLAN CHECK ONLY

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CORPORATE OFFICE:
P.O. Box 808
100 1st Avenue West
Oskaloosa, Iowa 52577
800/825-6020

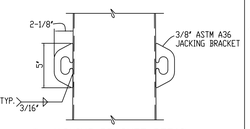
DRAWING TITLE: POLE DETAIL
SCALE: SEE PLAN
REVISIONS
REFERENCE

PROJECT NO. 225011

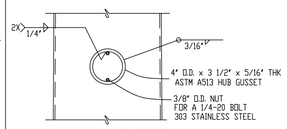
DATE: 04/24/2023

DRAWN BY: C.Hensley

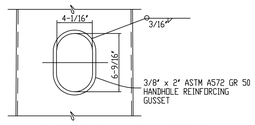
DRAWING NO. MS2
3 OF 6



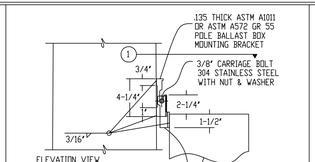

A JACKING BRACKET DETAIL
N.T.S. DSA-3RDSHEET_T



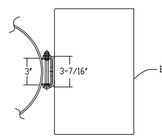

B HUB DETAIL
N.T.S. DSA-3RDSHEET_T



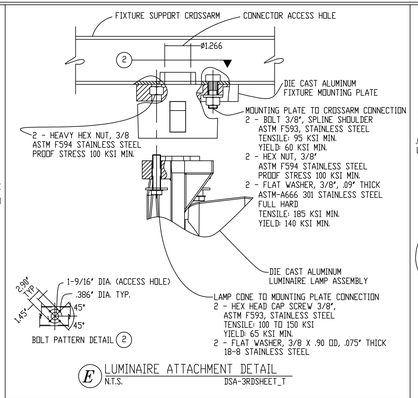

C HANDHOLE SLEEVE DETAIL
N.T.S. DSA-3RDSHEET_T



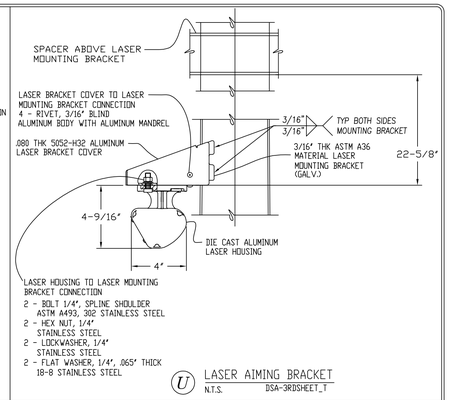

D MOUNTING BRACKET DETAIL
N.T.S. DSA-3RDSHEET_T



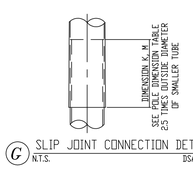

PLAN VIEW 1



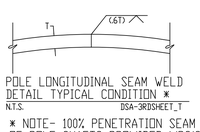

E LUMINAIRE ATTACHMENT DETAIL
N.T.S. DSA-3RDSHEET_T



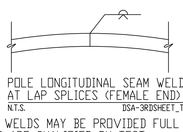

U LASER AIMING BRACKET
N.T.S. DSA-3RDSHEET_T




G SLIP JOINT CONNECTION DETAIL
N.T.S. DSA-LAP

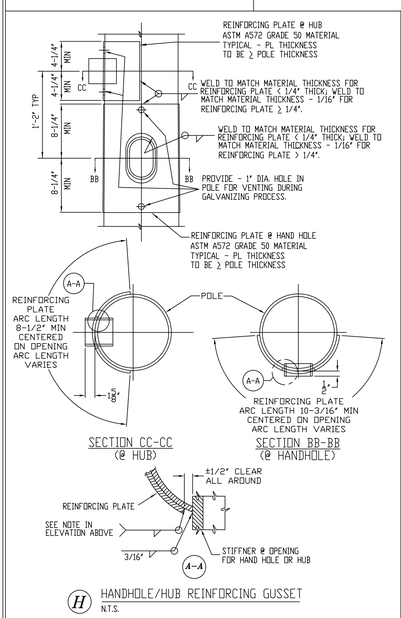



POLE LONGITUDINAL SEAM WELD
DETAIL TYPICAL CONDITION *
N.T.S. DSA-3RDSHEET_T

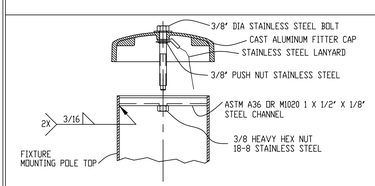


POLE LONGITUDINAL SEAM WELD DETAIL
AT LAP SPLICES (FEMALE END) *
N.T.S. DSA-3RDSHEET_T

* NOTE- 100% PENETRATION SEAM WELDS MAY BE PROVIDED FULL LENGTH OF POLE SHAFTS PROVIDED WPS'S ARE QUALIFIED BY TEST.




H HANDHOLE/HUB REINFORCING GUSSET
N.T.S.




F FITTER CAP DETAIL
N.T.S. DSA-3RDSHEET_T

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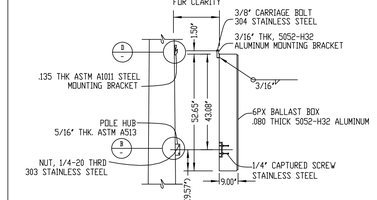
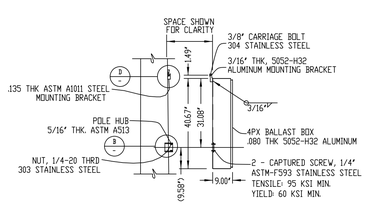



6PX
P BALLAST BOX CONNECTION DETAIL
N.T.S. STRU-6PX_D




4PX
O BALLAST BOX CONNECTION DETAIL
N.T.S. STRU-4PX_E

Centennial HS Aquatic
FIELD LIGHTING
Corona, CA

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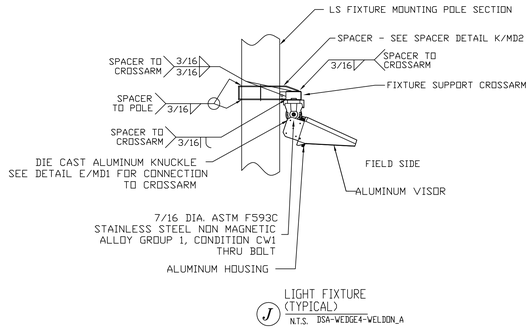
100 1st Avenue West
Oskaloosa, Iowa 52577
800/825-6020

DRAWING TITLE: ATTACHMENT DETAILS
SCALE: SEE PLAN
REVISIONS
REFERENCES

PROJECT NO. 225011
DATE: 04/24/2023
DRAWN BY: C.Hensley
DRAWING NO. MD1
4 OF 6

STRU-MDS

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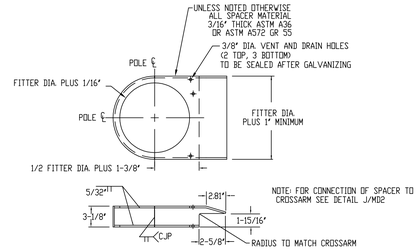


K SPACER DETAIL
N.T.S. DSA-SPACERWELDON_K

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DRAWING TITLE: ATTACHMENT DETAILS
SCALE: SEE PLAN
REVISIONS
REFERENCE:

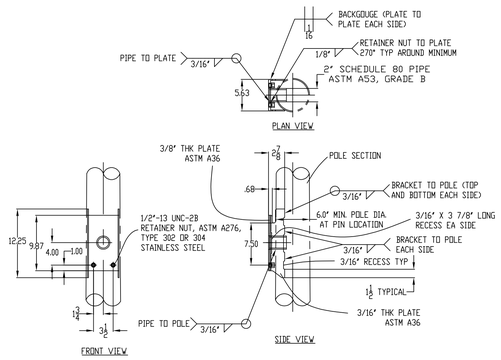
PROJECT NO. 225011

DATE: 04/24/2023

DRAWN BY: C.Hensley

DRAWING NO. MD2
5 OF 6

STBU-MD2

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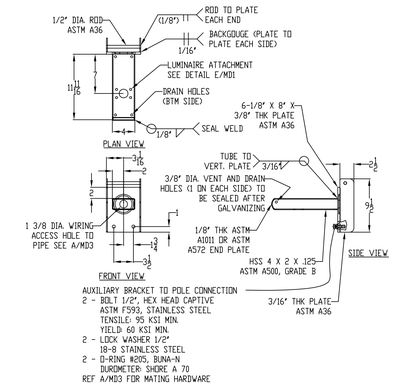


B IP AUXILIARY MOUNTING BRACKET
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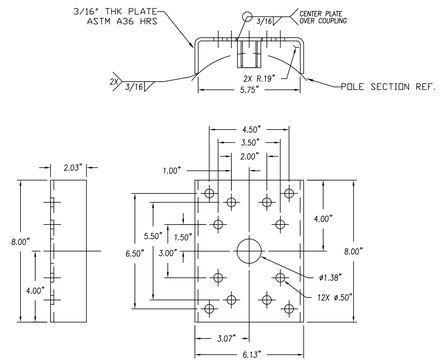
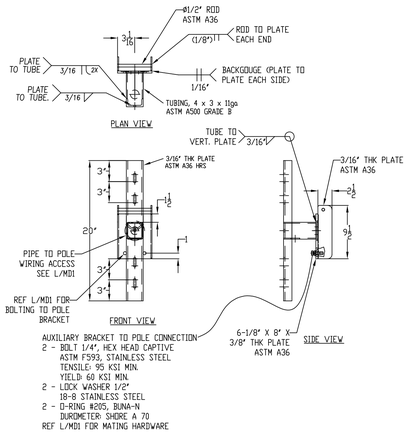



N IP CAMERA CHANNEL
N.T.S.




Y IP E.V. SPEAKER MOUNT
N.T.S.

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DRAWING TITLE: ATTACHMENT DETAILS
SCALE: SEE PLAN
REVISIONS
REFERENCES

PROJECT NO. 225011

DATE: 04/24/2023

DRAWN BY: C.Hensley

DRAWING NO. MD3
6 OF 6

STRD-MD3

# APPENDIX B - CalEEMod INPUT AND RESULTS FOR AIR QUALITY AND GREENHOUSE GAS ANALYSIS

# 7218/Centennial High School Aquatic Center Summary Report

## Table of Contents

1. Basic Project Information

1.1. Basic Project Information

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6. Climate Risk Detailed Report

6.2. Initial Climate Risk Scores

6.3. Adjusted Climate Risk Scores

7. Health and Equity Details

7.3. Overall Health & Equity Scores

7.5. Evaluation Scorecard

# 1. Basic Project Information

## 1.1. Basic Project Information

| Data Field | Value |
|---|---|
| Project Name | 7218/Centennial High School Aquatic Center |
| Construction Start Date | 10/2/2023 |
| Operational Year | 2025 |
| Lead Agency | City of Corona |
| Land Use Scale | Project/site |
| Analysis Level for Defaults | County |
| Windspeed (m/s) | 2.20 |
| Precipitation (days) | 19.2 |
| Location | 33.85934903960786, -117.54697462066834 |
| County | Riverside-South Coast |
| City | Corona |
| Air District | South Coast AQMD |
| Air Basin | South Coast |
| TAZ | 5470 |
| EDFZ | 11 |
| Electric Utility | Southern California Edison |
| Gas Utility | Southern California Gas |
| App Version | 2022.1.1.14 |

## 1.2. Land Use Types

| Land Use Subtype | Size | Unit | Lot Acreage | Building Area (sq ft) | Landscape Area (sq ft) | Special Landscape Area (sq ft) | Population | Description |
|---|---|---|---|---|---|---|---|---|

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Recreational Swimming Pool | 12.4 | 1000sqft | 0.28 | 13,699 | — | — | — | — |

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

| Sector | # | Measure Title |
|---|---|---|
| Construction | C-11 | Limit Vehicle Speeds on Unpaved Roads |
| Construction | C-13 | Use Low-VOC Paints for Construction |
| Area Sources | AS-2 | Use Low-VOC Paints |

## 2. Emissions Summary

### 2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Un/Mit. | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 0.73 | 0.62 | 5.70 | 7.48 | 0.01 | 0.26 | 0.23 | 0.44 | 0.24 | 0.05 | 0.26 | — | 1,457 | 1,457 | 0.06 | 0.02 | 1.00 | 1,466 |
| Mit. | 0.73 | 0.62 | 5.70 | 7.48 | 0.01 | 0.26 | 0.23 | 0.44 | 0.24 | 0.05 | 0.26 | — | 1,457 | 1,457 | 0.06 | 0.02 | 1.00 | 1,466 |
| % Reduced | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 1.57 | 1.32 | 12.6 | 11.9 | 0.02 | 0.60 | 5.41 | 6.01 | 0.55 | 2.59 | 3.14 | — | 2,962 | 2,962 | 0.08 | 0.33 | 0.12 | 3,061 |
| Mit. | 1.57 | 1.32 | 12.6 | 11.9 | 0.02 | 0.60 | 5.41 | 6.01 | 0.55 | 2.59 | 3.14 | — | 2,962 | 2,962 | 0.08 | 0.33 | 0.12 | 3,061 |
| % Reduced | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Average Daily (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 0.43 | 0.36 | 3.37 | 4.39 | 0.01 | 0.15 | 0.56 | 0.63 | 0.14 | 0.19 | 0.25 | — | 843 | 843 | 0.03 | 0.03 | 0.19 | 848 |
| Mit. | 0.43 | 0.36 | 3.37 | 4.39 | 0.01 | 0.15 | 0.56 | 0.63 | 0.14 | 0.19 | 0.25 | — | 843 | 843 | 0.03 | 0.03 | 0.19 | 848 |
| % Reduced | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 0.08 | 0.07 | 0.61 | 0.80 | < 0.005 | 0.03 | 0.10 | 0.11 | 0.03 | 0.03 | 0.05 | — | 140 | 140 | 0.01 | < 0.005 | 0.03 | 140 |
| Mit. | 0.08 | 0.07 | 0.61 | 0.80 | < 0.005 | 0.03 | 0.10 | 0.11 | 0.03 | 0.03 | 0.05 | — | 140 | 140 | 0.01 | < 0.005 | 0.03 | 140 |
| % Reduced | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

## 2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Un/Mit. | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 1.69 | 1.57 | 1.21 | 11.4 | 0.03 | 0.02 | 2.13 | 2.15 | 0.02 | 0.54 | 0.56 | 39.4 | 2,579 | 2,618 | 4.06 | 0.12 | 9.72 | 2,766 |
| Mit. | 1.69 | 1.57 | 1.21 | 11.4 | 0.03 | 0.02 | 2.13 | 2.15 | 0.02 | 0.54 | 0.56 | 39.4 | 2,579 | 2,618 | 4.06 | 0.12 | 9.72 | 2,766 |
| % Reduced | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 1.48 | 1.36 | 1.29 | 9.22 | 0.02 | 0.02 | 2.13 | 2.15 | 0.02 | 0.54 | 0.56 | 39.4 | 2,421 | 2,460 | 4.06 | 0.13 | 0.32 | 2,600 |
| Mit. | 1.48 | 1.36 | 1.29 | 9.22 | 0.02 | 0.02 | 2.13 | 2.15 | 0.02 | 0.54 | 0.56 | 39.4 | 2,421 | 2,460 | 4.06 | 0.13 | 0.32 | 2,600 |
| % Reduced | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Average Daily (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 1.28 | 1.18 | 1.09 | 8.30 | 0.02 | 0.02 | 1.76 | 1.78 | 0.02 | 0.45 | 0.46 | 39.4 | 2,023 | 2,062 | 4.04 | 0.11 | 3.51 | 2,198 |
| Mit. | 1.28 | 1.18 | 1.09 | 8.30 | 0.02 | 0.02 | 1.76 | 1.78 | 0.02 | 0.45 | 0.46 | 39.4 | 2,023 | 2,062 | 4.04 | 0.11 | 3.51 | 2,198 |
| % Reduced | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 0.23 | 0.22 | 0.20 | 1.51 | < 0.005 | < 0.005 | 0.32 | 0.32 | < 0.005 | 0.08 | 0.08 | 6.53 | 335 | 341 | 0.67 | 0.02 | 0.58 | 364 |
| Mit. | 0.23 | 0.22 | 0.20 | 1.51 | < 0.005 | < 0.005 | 0.32 | 0.32 | < 0.005 | 0.08 | 0.08 | 6.53 | 335 | 341 | 0.67 | 0.02 | 0.58 | 364 |
| % Reduced | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

# 6. Climate Risk Detailed Report

## 6.2. Initial Climate Risk Scores

| Climate Hazard | Exposure Score | Sensitivity Score | Adaptive Capacity Score | Vulnerability Score |
|---|---|---|---|---|
| Temperature and Extreme Heat | 2 | 0 | 0 | N/A |
| Extreme Precipitation | N/A | N/A | N/A | N/A |
| Sea Level Rise | 1 | 0 | 0 | N/A |
| Wildfire | 1 | 0 | 0 | N/A |
| Flooding | N/A | N/A | N/A | N/A |
| Drought | N/A | N/A | N/A | N/A |
| Snowpack Reduction | N/A | N/A | N/A | N/A |
| Air Quality Degradation | 0 | 0 | 0 | N/A |

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

## 6.3. Adjusted Climate Risk Scores

| Climate Hazard | Exposure Score | Sensitivity Score | Adaptive Capacity Score | Vulnerability Score |
|---|---|---|---|---|
| Temperature and Extreme Heat | 2 | 1 | 1 | 3 |
| Extreme Precipitation | N/A | N/A | N/A | N/A |
| Sea Level Rise | 1 | 1 | 1 | 2 |
| Wildfire | 1 | 1 | 1 | 2 |
| Flooding | N/A | N/A | N/A | N/A |
| Drought | N/A | N/A | N/A | N/A |
| Snowpack Reduction | N/A | N/A | N/A | N/A |
| Air Quality Degradation | 1 | 1 | 1 | 2 |

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

# 7. Health and Equity Details

## 7.3. Overall Health & Equity Scores

| Metric | Result for Project Census Tract |
|---|---|
| CalEnviroScreen 4.0 Score for Project Location (a) | 56.0 |
| Healthy Places Index Score for Project Location (b) | 37.0 |
| Project Located in a Designated Disadvantaged Community (Senate Bill 535) | No |
| Project Located in a Low-Income Community (Assembly Bill 1550) | No |
| Project Located in a Community Air Protection Program Community (Assembly Bill 617) | No |

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

## 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

# 7218/Centennial High School Aquatic Center Detailed Report

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2.2. Construction Emissions by Year, Unmitigated

2.3. Construction Emissions by Year, Mitigated

2.4. Operations Emissions Compared Against Thresholds

2.5. Operations Emissions by Sector, Unmitigated

2.6. Operations Emissions by Sector, Mitigated

3. Construction Emissions Details

3.1. Demolition (2023) - Unmitigated

3.2. Demolition (2023) - Mitigated

3.3. Site Preparation (2023) - Unmitigated

3.4. Site Preparation (2023) - Mitigated

3.5. Grading (2023) - Unmitigated

3.6. Grading (2023) - Mitigated

3.7. Building Construction (2023) - Unmitigated

3.8. Building Construction (2023) - Mitigated

3.9. Building Construction (2024) - Unmitigated

3.10. Building Construction (2024) - Mitigated

3.11. Paving (2024) - Unmitigated

3.12. Paving (2024) - Mitigated

3.13. Architectural Coating (2024) - Unmitigated

3.14. Architectural Coating (2024) - Mitigated

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

4.1.2. Mitigated

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

4.2.2. Electricity Emissions By Land Use - Mitigated

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

4.2.4. Natural Gas Emissions By Land Use - Mitigated

4.3. Area Emissions by Source

4.3.2. Unmitigated

4.3.1. Mitigated

4.4. Water Emissions by Land Use

4.4.2. Unmitigated

4.4.1. Mitigated

4.5. Waste Emissions by Land Use

4.5.2. Unmitigated

4.5.1. Mitigated

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

4.6.2. Mitigated

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

4.7.2. Mitigated

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

4.8.2. Mitigated

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

4.9.2. Mitigated

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

5. Activity Data

5.1. Construction Schedule

5.2. Off-Road Equipment

5.2.1. Unmitigated

5.2.2. Mitigated

5.3. Construction Vehicles

5.3.1. Unmitigated

5.3.2. Mitigated

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

5.5. Architectural Coatings

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

5.6.2. Construction Earthmoving Control Strategies

5.7. Construction Paving

5.8. Construction Electricity Consumption and Emissions Factors

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.9.2. Mitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.10.4. Landscape Equipment - Mitigated

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.11.2. Mitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.12.2. Mitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.13.2. Mitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

5.14.2. Mitigated

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.15.2. Mitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

5.18.2.2. Mitigated

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6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

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7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

# 1. Basic Project Information

## 1.1. Basic Project Information

| Data Field | Value |
|---|---|
| Project Name | 7218/Centennial High School Aquatic Center |
| Construction Start Date | 10/2/2023 |
| Operational Year | 2025 |
| Lead Agency | City of Corona |
| Land Use Scale | Project/site |
| Analysis Level for Defaults | County |
| Windspeed (m/s) | 2.20 |
| Precipitation (days) | 19.2 |
| Location | 33.85934903960786, -117.54697462066834 |
| County | Riverside-South Coast |
| City | Corona |
| Air District | South Coast AQMD |
| Air Basin | South Coast |
| TAZ | 5470 |
| EDFZ | 11 |
| Electric Utility | Southern California Edison |
| Gas Utility | Southern California Gas |
| App Version | 2022.1.1.14 |

## 1.2. Land Use Types

| Land Use Subtype | Size | Unit | Lot Acreage | Building Area (sq ft) | Landscape Area (sq ft) | Special Landscape Area (sq ft) | Population | Description |
|---|---|---|---|---|---|---|---|---|

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Recreational Swimming Pool | 12.4 | 1000sqft | 0.28 | 13,699 | — | — | — | — |

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

| Sector | # | Measure Title |
|---|---|---|
| Construction | C-11 | Limit Vehicle Speeds on Unpaved Roads |
| Construction | C-13 | Use Low-VOC Paints for Construction |
| Area Sources | AS-2 | Use Low-VOC Paints |

## 2. Emissions Summary

### 2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Un/Mit. | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 0.73 | 0.62 | 5.70 | 7.48 | 0.01 | 0.26 | 0.23 | 0.44 | 0.24 | 0.05 | 0.26 | — | 1,457 | 1,457 | 0.06 | 0.02 | 1.00 | 1,466 |
| Mit. | 0.73 | 0.62 | 5.70 | 7.48 | 0.01 | 0.26 | 0.23 | 0.44 | 0.24 | 0.05 | 0.26 | — | 1,457 | 1,457 | 0.06 | 0.02 | 1.00 | 1,466 |
| % Reduced | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 1.57 | 1.32 | 12.6 | 11.9 | 0.02 | 0.60 | 5.41 | 6.01 | 0.55 | 2.59 | 3.14 | — | 2,962 | 2,962 | 0.08 | 0.33 | 0.12 | 3,061 |
| Mit. | 1.57 | 1.32 | 12.6 | 11.9 | 0.02 | 0.60 | 5.41 | 6.01 | 0.55 | 2.59 | 3.14 | — | 2,962 | 2,962 | 0.08 | 0.33 | 0.12 | 3,061 |
| % Reduced | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Average Daily (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 0.43 | 0.36 | 3.37 | 4.39 | 0.01 | 0.15 | 0.56 | 0.63 | 0.14 | 0.19 | 0.25 | — | 843 | 843 | 0.03 | 0.03 | 0.19 | 848 |
| Mit. | 0.43 | 0.36 | 3.37 | 4.39 | 0.01 | 0.15 | 0.56 | 0.63 | 0.14 | 0.19 | 0.25 | — | 843 | 843 | 0.03 | 0.03 | 0.19 | 848 |
| % Reduced | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 0.08 | 0.07 | 0.61 | 0.80 | < 0.005 | 0.03 | 0.10 | 0.11 | 0.03 | 0.03 | 0.05 | — | 140 | 140 | 0.01 | < 0.005 | 0.03 | 140 |
| Mit. | 0.08 | 0.07 | 0.61 | 0.80 | < 0.005 | 0.03 | 0.10 | 0.11 | 0.03 | 0.03 | 0.05 | — | 140 | 140 | 0.01 | < 0.005 | 0.03 | 140 |
| % Reduced | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

## 2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Year | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily - Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 2024 | 0.73 | 0.62 | 5.70 | 7.48 | 0.01 | 0.26 | 0.23 | 0.44 | 0.24 | 0.05 | 0.26 | — | 1,457 | 1,457 | 0.06 | 0.02 | 1.00 | 1,466 |
| Daily - Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 2023 | 1.57 | 1.32 | 12.6 | 11.9 | 0.02 | 0.60 | 5.41 | 6.01 | 0.55 | 2.59 | 3.14 | — | 2,962 | 2,962 | 0.08 | 0.33 | 0.12 | 3,061 |
| 2024 | 0.72 | 0.61 | 5.71 | 7.36 | 0.01 | 0.26 | 0.23 | 0.44 | 0.24 | 0.05 | 0.26 | — | 1,451 | 1,451 | 0.06 | 0.02 | 0.03 | 1,459 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 2023 | 0.18 | 0.15 | 1.55 | 1.54 | < 0.005 | 0.07 | 0.56 | 0.63 | 0.06 | 0.19 | 0.25 | — | 394 | 394 | 0.01 | 0.03 | 0.19 | 403 |
| 2024 | 0.43 | 0.36 | 3.37 | 4.39 | 0.01 | 0.15 | 0.06 | 0.21 | 0.14 | 0.02 | 0.15 | — | 843 | 843 | 0.03 | 0.01 | 0.15 | 848 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2023 | 0.03 | 0.03 | 0.28 | 0.28 | < 0.005 | 0.01 | 0.10 | 0.11 | 0.01 | 0.03 | 0.05 | — | 65.2 | 65.2 | < 0.005 | < 0.005 | 0.03 | 66.7 |
| 2024 | 0.08 | 0.07 | 0.61 | 0.80 | < 0.005 | 0.03 | 0.01 | 0.04 | 0.03 | < 0.005 | 0.03 | — | 140 | 140 | 0.01 | < 0.005 | 0.02 | 140 |

## 2.3. Construction Emissions by Year, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Year | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily - Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 2024 | 0.73 | 0.62 | 5.70 | 7.48 | 0.01 | 0.26 | 0.23 | 0.44 | 0.24 | 0.05 | 0.26 | — | 1,457 | 1,457 | 0.06 | 0.02 | 1.00 | 1,466 |
| Daily - Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 2023 | 1.57 | 1.32 | 12.6 | 11.9 | 0.02 | 0.60 | 5.41 | 6.01 | 0.55 | 2.59 | 3.14 | — | 2,962 | 2,962 | 0.08 | 0.33 | 0.12 | 3,061 |
| 2024 | 0.72 | 0.61 | 5.71 | 7.36 | 0.01 | 0.26 | 0.23 | 0.44 | 0.24 | 0.05 | 0.26 | — | 1,451 | 1,451 | 0.06 | 0.02 | 0.03 | 1,459 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 2023 | 0.18 | 0.15 | 1.55 | 1.54 | < 0.005 | 0.07 | 0.56 | 0.63 | 0.06 | 0.19 | 0.25 | — | 394 | 394 | 0.01 | 0.03 | 0.19 | 403 |
| 2024 | 0.43 | 0.36 | 3.37 | 4.39 | 0.01 | 0.15 | 0.06 | 0.21 | 0.14 | 0.02 | 0.15 | — | 843 | 843 | 0.03 | 0.01 | 0.15 | 848 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 2023 | 0.03 | 0.03 | 0.28 | 0.28 | < 0.005 | 0.01 | 0.10 | 0.11 | 0.01 | 0.03 | 0.05 | — | 65.2 | 65.2 | < 0.005 | < 0.005 | 0.03 | 66.7 |
| 2024 | 0.08 | 0.07 | 0.61 | 0.80 | < 0.005 | 0.03 | 0.01 | 0.04 | 0.03 | < 0.005 | 0.03 | — | 140 | 140 | 0.01 | < 0.005 | 0.02 | 140 |

## 2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Un/Mit. | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Unmit. | 1.69 | 1.57 | 1.21 | 11.4 | 0.03 | 0.02 | 2.13 | 2.15 | 0.02 | 0.54 | 0.56 | 39.4 | 2,579 | 2,618 | 4.06 | 0.12 | 9.72 | 2,766 |
| Mit. | 1.69 | 1.57 | 1.21 | 11.4 | 0.03 | 0.02 | 2.13 | 2.15 | 0.02 | 0.54 | 0.56 | 39.4 | 2,579 | 2,618 | 4.06 | 0.12 | 9.72 | 2,766 |
| % Reduced | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 1.48 | 1.36 | 1.29 | 9.22 | 0.02 | 0.02 | 2.13 | 2.15 | 0.02 | 0.54 | 0.56 | 39.4 | 2,421 | 2,460 | 4.06 | 0.13 | 0.32 | 2,600 |
| Mit. | 1.48 | 1.36 | 1.29 | 9.22 | 0.02 | 0.02 | 2.13 | 2.15 | 0.02 | 0.54 | 0.56 | 39.4 | 2,421 | 2,460 | 4.06 | 0.13 | 0.32 | 2,600 |
| % Reduced | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Average Daily (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 1.28 | 1.18 | 1.09 | 8.30 | 0.02 | 0.02 | 1.76 | 1.78 | 0.02 | 0.45 | 0.46 | 39.4 | 2,023 | 2,062 | 4.04 | 0.11 | 3.51 | 2,198 |
| Mit. | 1.28 | 1.18 | 1.09 | 8.30 | 0.02 | 0.02 | 1.76 | 1.78 | 0.02 | 0.45 | 0.46 | 39.4 | 2,023 | 2,062 | 4.04 | 0.11 | 3.51 | 2,198 |
| % Reduced | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 0.23 | 0.22 | 0.20 | 1.51 | < 0.005 | < 0.005 | 0.32 | 0.32 | < 0.005 | 0.08 | 0.08 | 6.53 | 335 | 341 | 0.67 | 0.02 | 0.58 | 364 |
| Mit. | 0.23 | 0.22 | 0.20 | 1.51 | < 0.005 | < 0.005 | 0.32 | 0.32 | < 0.005 | 0.08 | 0.08 | 6.53 | 335 | 341 | 0.67 | 0.02 | 0.58 | 364 |
| % Reduced | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

## 2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Sector | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mobile | 1.58 | 1.47 | 1.20 | 10.8 | 0.03 | 0.02 | 2.13 | 2.15 | 0.02 | 0.54 | 0.56 | — | 2,572 | 2,572 | 0.11 | 0.12 | 9.65 | 2,619 |
| Area | 0.11 | 0.10 | 0.01 | 0.60 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 2.45 | 2.45 | < 0.005 | < 0.005 | — | 2.46 |
| Energy | 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 |
| Water | — | — | — | — | — | — | — | — | — | — | — | 1.40 | 4.76 | 6.16 | 0.14 | < 0.005 | — | 10.8 |
| Waste | — | — | — | — | — | — | — | — | — | — | — | 38.0 | 0.00 | 38.0 | 3.80 | 0.00 | — | 133 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.07 | 0.07 |
| Total | 1.69 | 1.57 | 1.21 | 11.4 | 0.03 | 0.02 | 2.13 | 2.15 | 0.02 | 0.54 | 0.56 | 39.4 | 2,579 | 2,618 | 4.06 | 0.12 | 9.72 | 2,766 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Mobile | 1.48 | 1.36 | 1.29 | 9.22 | 0.02 | 0.02 | 2.13 | 2.15 | 0.02 | 0.54 | 0.56 | — | 2,416 | 2,416 | 0.12 | 0.12 | 0.25 | 2,456 |
| Area | — | 0.00 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Energy | 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 |
| Water | — | — | — | — | — | — | — | — | — | — | — | 1.40 | 4.76 | 6.16 | 0.14 | < 0.005 | — | 10.8 |
| Waste | — | — | — | — | — | — | — | — | — | — | — | 38.0 | 0.00 | 38.0 | 3.80 | 0.00 | — | 133 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.07 | 0.07 |
| Total | 1.48 | 1.36 | 1.29 | 9.22 | 0.02 | 0.02 | 2.13 | 2.15 | 0.02 | 0.54 | 0.56 | 39.4 | 2,421 | 2,460 | 4.06 | 0.13 | 0.32 | 2,600 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Mobile | 1.21 | 1.12 | 1.08 | 7.89 | 0.02 | 0.02 | 1.76 | 1.78 | 0.01 | 0.45 | 0.46 | — | 2,016 | 2,016 | 0.10 | 0.10 | 3.45 | 2,053 |
| Area | 0.07 | 0.07 | < 0.005 | 0.41 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 1.68 | 1.68 | < 0.005 | < 0.005 | — | 1.68 |
| Energy | 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 |
| Water | — | — | — | — | — | — | — | — | — | — | — | 1.40 | 4.76 | 6.16 | 0.14 | < 0.005 | — | 10.8 |
| Waste | — | — | — | — | — | — | — | — | — | — | — | 38.0 | 0.00 | 38.0 | 3.80 | 0.00 | — | 133 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.07 | 0.07 |
| Total | 1.28 | 1.18 | 1.09 | 8.30 | 0.02 | 0.02 | 1.76 | 1.78 | 0.02 | 0.45 | 0.46 | 39.4 | 2,023 | 2,062 | 4.04 | 0.11 | 3.51 | 2,198 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Mobile | 0.22 | 0.20 | 0.20 | 1.44 | < 0.005 | < 0.005 | 0.32 | 0.32 | < 0.005 | 0.08 | 0.08 | — | 334 | 334 | 0.02 | 0.02 | 0.57 | 340 |
| Area | 0.01 | 0.01 | < 0.005 | 0.07 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 0.28 | 0.28 | < 0.005 | < 0.005 | — | 0.28 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Energy | 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 |
| Water | — | — | — | — | — | — | — | — | — | — | — | 0.23 | 0.79 | 1.02 | 0.02 | < 0.005 | — | 1.79 |
| Waste | — | — | — | — | — | — | — | — | — | — | — | 6.30 | 0.00 | 6.30 | 0.63 | 0.00 | — | 22.0 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.01 | 0.01 |
| Total | 0.23 | 0.22 | 0.20 | 1.51 | < 0.005 | < 0.005 | 0.32 | 0.32 | < 0.005 | 0.08 | 0.08 | 6.53 | 335 | 341 | 0.67 | 0.02 | 0.58 | 364 |

## 2.6. Operations Emissions by Sector, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Sector | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Mobile | 1.58 | 1.47 | 1.20 | 10.8 | 0.03 | 0.02 | 2.13 | 2.15 | 0.02 | 0.54 | 0.56 | — | 2,572 | 2,572 | 0.11 | 0.12 | 9.65 | 2,619 |
| Area | 0.11 | 0.10 | 0.01 | 0.60 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 2.45 | 2.45 | < 0.005 | < 0.005 | — | 2.46 |
| Energy | 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 |
| Water | — | — | — | — | — | — | — | — | — | — | — | 1.40 | 4.76 | 6.16 | 0.14 | < 0.005 | — | 10.8 |
| Waste | — | — | — | — | — | — | — | — | — | — | — | 38.0 | 0.00 | 38.0 | 3.80 | 0.00 | — | 133 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.07 | 0.07 |
| Total | 1.69 | 1.57 | 1.21 | 11.4 | 0.03 | 0.02 | 2.13 | 2.15 | 0.02 | 0.54 | 0.56 | 39.4 | 2,579 | 2,618 | 4.06 | 0.12 | 9.72 | 2,766 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Mobile | 1.48 | 1.36 | 1.29 | 9.22 | 0.02 | 0.02 | 2.13 | 2.15 | 0.02 | 0.54 | 0.56 | — | 2,416 | 2,416 | 0.12 | 0.12 | 0.25 | 2,456 |
| Area | — | 0.00 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Energy | 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 |
| Water | — | — | — | — | — | — | — | — | — | — | — | 1.40 | 4.76 | 6.16 | 0.14 | < 0.005 | — | 10.8 |
| Waste | — | — | — | — | — | — | — | — | — | — | — | 38.0 | 0.00 | 38.0 | 3.80 | 0.00 | — | 133 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.07 | 0.07 |
| Total | 1.48 | 1.36 | 1.29 | 9.22 | 0.02 | 0.02 | 2.13 | 2.15 | 0.02 | 0.54 | 0.56 | 39.4 | 2,421 | 2,460 | 4.06 | 0.13 | 0.32 | 2,600 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Mobile | 1.21 | 1.12 | 1.08 | 7.89 | 0.02 | 0.02 | 1.76 | 1.78 | 0.01 | 0.45 | 0.46 | — | 2,016 | 2,016 | 0.10 | 0.10 | 3.45 | 2,053 |
| Area | 0.07 | 0.07 | < 0.005 | 0.41 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 1.68 | 1.68 | < 0.005 | < 0.005 | — | 1.68 |
| Energy | 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 |
| Water | — | — | — | — | — | — | — | — | — | — | — | 1.40 | 4.76 | 6.16 | 0.14 | < 0.005 | — | 10.8 |
| Waste | — | — | — | — | — | — | — | — | — | — | — | 38.0 | 0.00 | 38.0 | 3.80 | 0.00 | — | 133 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.07 | 0.07 |
| Total | 1.28 | 1.18 | 1.09 | 8.30 | 0.02 | 0.02 | 1.76 | 1.78 | 0.02 | 0.45 | 0.46 | 39.4 | 2,023 | 2,062 | 4.04 | 0.11 | 3.51 | 2,198 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Mobile | 0.22 | 0.20 | 0.20 | 1.44 | < 0.005 | < 0.005 | 0.32 | 0.32 | < 0.005 | 0.08 | 0.08 | — | 334 | 334 | 0.02 | 0.02 | 0.57 | 340 |
| Area | 0.01 | 0.01 | < 0.005 | 0.07 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 0.28 | 0.28 | < 0.005 | < 0.005 | — | 0.28 |
| Energy | 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 |
| Water | — | — | — | — | — | — | — | — | — | — | — | 0.23 | 0.79 | 1.02 | 0.02 | < 0.005 | — | 1.79 |
| Waste | — | — | — | — | — | — | — | — | — | — | — | 6.30 | 0.00 | 6.30 | 0.63 | 0.00 | — | 22.0 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.01 | 0.01 |
| Total | 0.23 | 0.22 | 0.20 | 1.51 | < 0.005 | < 0.005 | 0.32 | 0.32 | < 0.005 | 0.08 | 0.08 | 6.53 | 335 | 341 | 0.67 | 0.02 | 0.58 | 364 |

# 3. Construction Emissions Details

## 3.1. Demolition (2023) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.65 | 0.54 | 4.99 | 5.91 | 0.01 | 0.21 | — | 0.21 | 0.20 | — | 0.20 | — | 852 | 852 | 0.03 | 0.01 | — | 855 |
| Demolition | — | — | — | — | — | — | 2.38 | 2.38 | — | 0.36 | 0.36 | — | — | — | — | — | — | — |
| Onsite truck | 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 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.05 | 0.04 | 0.41 | 0.49 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | — | 70.0 | 70.0 | < 0.005 | < 0.005 | — | 70.3 |
| Demolition | — | — | — | — | — | — | 0.20 | 0.20 | — | 0.03 | 0.03 | — | — | — | — | — | — | — |
| Onsite truck | 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 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.01 | 0.01 | 0.07 | 0.09 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 11.6 | 11.6 | < 0.005 | < 0.005 | — | 11.6 |
| Demolition | — | — | — | — | — | — | 0.04 | 0.04 | — | 0.01 | 0.01 | — | — | — | — | — | — | — |
| Onsite truck | 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 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.06 | 0.05 | 0.06 | 0.69 | 0.00 | 0.00 | 0.13 | 0.13 | 0.00 | 0.03 | 0.03 | — | 135 | 135 | 0.01 | < 0.005 | 0.02 | 137 |
| Vendor | 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 | 0.00 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Hauling | 0.08 | 0.03 | 2.37 | 0.55 | 0.01 | 0.04 | 0.50 | 0.54 | 0.04 | 0.14 | 0.18 | — | 1,975 | 1,975 | 0.04 | 0.31 | 0.11 | 2,070 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | 0.01 | 0.06 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | < 0.005 | < 0.005 | — | 11.2 | 11.2 | < 0.005 | < 0.005 | 0.02 | 11.4 |
| Vendor | 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 | 0.00 |
| Hauling | 0.01 | < 0.005 | 0.20 | 0.04 | < 0.005 | < 0.005 | 0.04 | 0.04 | < 0.005 | 0.01 | 0.01 | — | 162 | 162 | < 0.005 | 0.03 | 0.15 | 170 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 1.86 | 1.86 | < 0.005 | < 0.005 | < 0.005 | 1.89 |
| Vendor | 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 | 0.00 |
| Hauling | < 0.005 | < 0.005 | 0.04 | 0.01 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 26.9 | 26.9 | < 0.005 | < 0.005 | 0.02 | 28.2 |

## 3.2. Demolition (2023) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.65 | 0.54 | 4.99 | 5.91 | 0.01 | 0.21 | — | 0.21 | 0.20 | — | 0.20 | — | 852 | 852 | 0.03 | 0.01 | — | 855 |
| Demolition | — | — | — | — | — | — | 2.38 | 2.38 | — | 0.36 | 0.36 | — | — | — | — | — | — | — |
| Onsite truck | 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 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.05 | 0.04 | 0.41 | 0.49 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | — | 70.0 | 70.0 | < 0.005 | < 0.005 | — | 70.3 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Demolitio | — | — | — | — | — | — | 0.20 | 0.20 | — | 0.03 | 0.03 | — | — | — | — | — | — | — |
| Onsite truck | 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 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.01 | 0.01 | 0.07 | 0.09 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 11.6 | 11.6 | < 0.005 | < 0.005 | — | 11.6 |
| Demolitio n | — | — | — | — | — | — | 0.04 | 0.04 | — | 0.01 | 0.01 | — | — | — | — | — | — | — |
| Onsite truck | 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 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.06 | 0.05 | 0.06 | 0.69 | 0.00 | 0.00 | 0.13 | 0.13 | 0.00 | 0.03 | 0.03 | — | 135 | 135 | 0.01 | < 0.005 | 0.02 | 137 |
| Vendor | 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 | 0.00 |
| Hauling | 0.08 | 0.03 | 2.37 | 0.55 | 0.01 | 0.04 | 0.50 | 0.54 | 0.04 | 0.14 | 0.18 | — | 1,975 | 1,975 | 0.04 | 0.31 | 0.11 | 2,070 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | 0.01 | 0.06 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | < 0.005 | < 0.005 | — | 11.2 | 11.2 | < 0.005 | < 0.005 | 0.02 | 11.4 |
| Vendor | 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 | 0.00 |
| Hauling | 0.01 | < 0.005 | 0.20 | 0.04 | < 0.005 | < 0.005 | 0.04 | 0.04 | < 0.005 | 0.01 | 0.01 | — | 162 | 162 | < 0.005 | 0.03 | 0.15 | 170 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 1.86 | 1.86 | < 0.005 | < 0.005 | < 0.005 | 1.89 |
| Vendor | 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 | 0.00 |
| Hauling | < 0.005 | < 0.005 | 0.04 | 0.01 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 26.9 | 26.9 | < 0.005 | < 0.005 | 0.02 | 28.2 |

## 3.3. Site Preparation (2023) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.64 | 0.54 | 5.02 | 5.57 | 0.01 | 0.27 | — | 0.27 | 0.25 | — | 0.25 | — | 858 | 858 | 0.03 | 0.01 | — | 861 |
| Dust From Material Movement | — | — | — | — | — | — | 0.53 | 0.53 | — | 0.06 | 0.06 | — | — | — | — | — | — | — |
| Onsite truck | 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 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.02 | 0.01 | 0.14 | 0.15 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 23.5 | 23.5 | < 0.005 | < 0.005 | — | 23.6 |
| Dust From Material Movement | — | — | — | — | — | — | 0.01 | 0.01 | — | < 0.005 | < 0.005 | — | — | — | — | — | — | — |
| Onsite truck | 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 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | < 0.005 | < 0.005 | 0.03 | 0.03 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 3.89 | 3.89 | < 0.005 | < 0.005 | — | 3.90 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Dust From Material Movement | — | — | — | — | — | — | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | — | — | — | — | — | — |
| Onsite truck | 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 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.03 | 0.03 | 0.03 | 0.34 | 0.00 | 0.00 | 0.07 | 0.07 | 0.00 | 0.02 | 0.02 | — | 67.5 | 67.5 | < 0.005 | < 0.005 | 0.01 | 68.3 |
| Vendor | 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 | 0.00 |
| Hauling | 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 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 1.87 | 1.87 | < 0.005 | < 0.005 | < 0.005 | 1.90 |
| Vendor | 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 | 0.00 |
| Hauling | 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 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 0.31 | 0.31 | < 0.005 | < 0.005 | < 0.005 | 0.31 |
| Vendor | 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 | 0.00 |
| Hauling | 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 | 0.00 |

## 3.4. Site Preparation (2023) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.64 | 0.54 | 5.02 | 5.57 | 0.01 | 0.27 | — | 0.27 | 0.25 | — | 0.25 | — | 858 | 858 | 0.03 | 0.01 | — | 861 |
| Dust From Material Movement | — | — | — | — | — | — | 0.53 | 0.53 | — | 0.06 | 0.06 | — | — | — | — | — | — | — |
| Onsite truck | 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 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.02 | 0.01 | 0.14 | 0.15 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 23.5 | 23.5 | < 0.005 | < 0.005 | — | 23.6 |
| Dust From Material Movement | — | — | — | — | — | — | 0.01 | 0.01 | — | < 0.005 | < 0.005 | — | — | — | — | — | — | — |
| Onsite truck | 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 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | < 0.005 | < 0.005 | 0.03 | 0.03 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 3.89 | 3.89 | < 0.005 | < 0.005 | — | 3.90 |
| Dust From Material Movement | — | — | — | — | — | — | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | — | — | — | — | — | — |
| Onsite truck | 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 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.03 | 0.03 | 0.03 | 0.34 | 0.00 | 0.00 | 0.07 | 0.07 | 0.00 | 0.02 | 0.02 | — | 67.5 | 67.5 | < 0.005 | < 0.005 | 0.01 | 68.3 |
| Vendor | 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 | 0.00 |
| Hauling | 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 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 1.87 | 1.87 | < 0.005 | < 0.005 | < 0.005 | 1.90 |
| Vendor | 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 | 0.00 |
| Hauling | 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 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 0.31 | 0.31 | < 0.005 | < 0.005 | < 0.005 | 0.31 |
| Vendor | 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 | 0.00 |
| Hauling | 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 | 0.00 |

## 3.5. Grading (2023) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.52 | 1.28 | 12.6 | 11.4 | 0.02 | 0.60 | — | 0.60 | 0.55 | — | 0.55 | — | 1,713 | 1,713 | 0.07 | 0.01 | — | 1,719 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Dust From Material Movement | — | — | — | — | — | — | 5.31 | 5.31 | — | 2.57 | 2.57 | — | — | — | — | — | — | — |
| Onsite truck | 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 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.08 | 0.07 | 0.69 | 0.62 | < 0.005 | 0.03 | — | 0.03 | 0.03 | — | 0.03 | — | 93.9 | 93.9 | < 0.005 | < 0.005 | — | 94.2 |
| Dust From Material Movement | — | — | — | — | — | — | 0.29 | 0.29 | — | 0.14 | 0.14 | — | — | — | — | — | — | — |
| Onsite truck | 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 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.02 | 0.01 | 0.13 | 0.11 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 15.5 | 15.5 | < 0.005 | < 0.005 | — | 15.6 |
| Dust From Material Movement | — | — | — | — | — | — | 0.05 | 0.05 | — | 0.03 | 0.03 | — | — | — | — | — | — | — |
| Onsite truck | 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 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.04 | 0.04 | 0.05 | 0.52 | 0.00 | 0.00 | 0.10 | 0.10 | 0.00 | 0.02 | 0.02 | — | 101 | 101 | < 0.005 | < 0.005 | 0.01 | 102 |
| Vendor | 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 | 0.00 |
| Hauling | 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 | 0.00 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.03 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | < 0.005 | < 0.005 | — | 5.62 | 5.62 | < 0.005 | < 0.005 | 0.01 | 5.70 |
| Vendor | 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 | 0.00 |
| Hauling | 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 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 0.93 | 0.93 | < 0.005 | < 0.005 | < 0.005 | 0.94 |
| Vendor | 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 | 0.00 |
| Hauling | 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 | 0.00 |

## 3.6. Grading (2023) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.52 | 1.28 | 12.6 | 11.4 | 0.02 | 0.60 | — | 0.60 | 0.55 | — | 0.55 | — | 1,713 | 1,713 | 0.07 | 0.01 | — | 1,719 |
| Dust From Material Movement | — | — | — | — | — | — | 5.31 | 5.31 | — | 2.57 | 2.57 | — | — | — | — | — | — | — |
| Onsite truck | 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 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.08 | 0.07 | 0.69 | 0.62 | < 0.005 | 0.03 | — | 0.03 | 0.03 | — | 0.03 | — | 93.9 | 93.9 | < 0.005 | < 0.005 | — | 94.2 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Dust From Material Movement | — | — | — | — | — | — | 0.29 | 0.29 | — | 0.14 | 0.14 | — | — | — | — | — | — | — |
| Onsite truck | 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 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.02 | 0.01 | 0.13 | 0.11 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 15.5 | 15.5 | < 0.005 | < 0.005 | — | 15.6 |
| Dust From Material Movement | — | — | — | — | — | — | 0.05 | 0.05 | — | 0.03 | 0.03 | — | — | — | — | — | — | — |
| Onsite truck | 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 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.04 | 0.04 | 0.05 | 0.52 | 0.00 | 0.00 | 0.10 | 0.10 | 0.00 | 0.02 | 0.02 | — | 101 | 101 | < 0.005 | < 0.005 | 0.01 | 102 |
| Vendor | 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 | 0.00 |
| Hauling | 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 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.03 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | < 0.005 | < 0.005 | — | 5.62 | 5.62 | < 0.005 | < 0.005 | 0.01 | 5.70 |
| Vendor | 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 | 0.00 |
| Hauling | 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 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 0.93 | 0.93 | < 0.005 | < 0.005 | < 0.005 | 0.94 |
| Vendor | 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 | 0.00 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Hauling | 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 | 0.00 |

## 3.7. Building Construction (2023) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.69 | 0.58 | 5.93 | 7.00 | 0.01 | 0.28 | — | 0.28 | 0.26 | — | 0.26 | — | 1,305 | 1,305 | 0.05 | 0.01 | — | 1,309 |
| Onsite truck | 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 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.01 | 0.01 | 0.10 | 0.12 | < 0.005 | 0.01 | — | 0.01 | < 0.005 | — | < 0.005 | — | 23.0 | 23.0 | < 0.005 | < 0.005 | — | 23.1 |
| Onsite truck | 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 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | < 0.005 | < 0.005 | 0.02 | 0.02 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 3.80 | 3.80 | < 0.005 | < 0.005 | — | 3.82 |
| Onsite truck | 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 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.03 | 0.03 | 0.04 | 0.40 | 0.00 | 0.00 | 0.08 | 0.08 | 0.00 | 0.02 | 0.02 | — | 77.7 | 77.7 | < 0.005 | < 0.005 | 0.01 | 78.6 |
| Vendor | < 0.005 | < 0.005 | 0.09 | 0.03 | < 0.005 | < 0.005 | 0.02 | 0.02 | < 0.005 | 0.01 | 0.01 | — | 70.6 | 70.6 | < 0.005 | 0.01 | 0.01 | 73.7 |
| Hauling | 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 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 1.39 | 1.39 | < 0.005 | < 0.005 | < 0.005 | 1.40 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 1.24 | 1.24 | < 0.005 | < 0.005 | < 0.005 | 1.30 |
| Hauling | 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 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 0.23 | 0.23 | < 0.005 | < 0.005 | < 0.005 | 0.23 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.21 | 0.21 | < 0.005 | < 0.005 | < 0.005 | 0.22 |
| Hauling | 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 | 0.00 |

## 3.8. Building Construction (2023) - Mitigated

### Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.69 | 0.58 | 5.93 | 7.00 | 0.01 | 0.28 | — | 0.28 | 0.26 | — | 0.26 | — | 1,305 | 1,305 | 0.05 | 0.01 | — | 1,309 |
| Onsite truck | 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 | 0.00 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.01 | 0.01 | 0.10 | 0.12 | < 0.005 | 0.01 | — | 0.01 | < 0.005 | — | < 0.005 | — | 23.0 | 23.0 | < 0.005 | < 0.005 | — | 23.1 |
| Onsite truck | 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 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | < 0.005 | < 0.005 | 0.02 | 0.02 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 3.80 | 3.80 | < 0.005 | < 0.005 | — | 3.82 |
| Onsite truck | 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 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.03 | 0.03 | 0.04 | 0.40 | 0.00 | 0.00 | 0.08 | 0.08 | 0.00 | 0.02 | 0.02 | — | 77.7 | 77.7 | < 0.005 | < 0.005 | 0.01 | 78.6 |
| Vendor | < 0.005 | < 0.005 | 0.09 | 0.03 | < 0.005 | < 0.005 | 0.02 | 0.02 | < 0.005 | 0.01 | 0.01 | — | 70.6 | 70.6 | < 0.005 | 0.01 | 0.01 | 73.7 |
| Hauling | 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 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 1.39 | 1.39 | < 0.005 | < 0.005 | < 0.005 | 1.40 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 1.24 | 1.24 | < 0.005 | < 0.005 | < 0.005 | 1.30 |
| Hauling | 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 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 0.23 | 0.23 | < 0.005 | < 0.005 | < 0.005 | 0.23 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.21 | 0.21 | < 0.005 | < 0.005 | < 0.005 | 0.22 |
| Hauling | 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 | 0.00 |

## 3.9. Building Construction (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.67 | 0.56 | 5.60 | 6.98 | 0.01 | 0.26 | — | 0.26 | 0.23 | — | 0.23 | — | 1,305 | 1,305 | 0.05 | 0.01 | — | 1,309 |
| Onsite truck | 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 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.67 | 0.56 | 5.60 | 6.98 | 0.01 | 0.26 | — | 0.26 | 0.23 | — | 0.23 | — | 1,305 | 1,305 | 0.05 | 0.01 | — | 1,309 |
| Onsite truck | 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 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.35 | 0.30 | 2.97 | 3.70 | 0.01 | 0.14 | — | 0.14 | 0.12 | — | 0.12 | — | 692 | 692 | 0.03 | 0.01 | — | 694 |
| Onsite truck | 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 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.06 | 0.05 | 0.54 | 0.68 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | — | 115 | 115 | < 0.005 | < 0.005 | — | 115 |
| Onsite truck | 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 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.03 | 0.03 | 0.03 | 0.48 | 0.00 | 0.00 | 0.08 | 0.08 | 0.00 | 0.02 | 0.02 | — | 82.8 | 82.8 | < 0.005 | < 0.005 | 0.33 | 84.1 |
| Vendor | < 0.005 | < 0.005 | 0.08 | 0.02 | < 0.005 | < 0.005 | 0.02 | 0.02 | < 0.005 | 0.01 | 0.01 | — | 69.7 | 69.7 | < 0.005 | 0.01 | 0.20 | 73.1 |
| Hauling | 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 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.03 | 0.03 | 0.03 | 0.36 | 0.00 | 0.00 | 0.08 | 0.08 | 0.00 | 0.02 | 0.02 | — | 76.1 | 76.1 | < 0.005 | < 0.005 | 0.01 | 77.1 |
| Vendor | < 0.005 | < 0.005 | 0.08 | 0.03 | < 0.005 | < 0.005 | 0.02 | 0.02 | < 0.005 | 0.01 | 0.01 | — | 69.8 | 69.8 | < 0.005 | 0.01 | 0.01 | 72.9 |
| Hauling | 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 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.02 | 0.01 | 0.02 | 0.20 | 0.00 | 0.00 | 0.04 | 0.04 | 0.00 | 0.01 | 0.01 | — | 40.9 | 40.9 | < 0.005 | < 0.005 | 0.08 | 41.5 |
| Vendor | < 0.005 | < 0.005 | 0.04 | 0.01 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 37.0 | 37.0 | < 0.005 | 0.01 | 0.04 | 38.7 |
| Hauling | 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 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.04 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | < 0.005 | < 0.005 | — | 6.77 | 6.77 | < 0.005 | < 0.005 | 0.01 | 6.86 |
| Vendor | < 0.005 | < 0.005 | 0.01 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 6.12 | 6.12 | < 0.005 | < 0.005 | 0.01 | 6.41 |
| Hauling | 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 | 0.00 |

## 3.10. Building Construction (2024) - Mitigated

### Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Off-Road Equipment | 0.67 | 0.56 | 5.60 | 6.98 | 0.01 | 0.26 | — | 0.26 | 0.23 | — | 0.23 | — | 1,305 | 1,305 | 0.05 | 0.01 | — | 1,309 |
| Onsite truck | 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 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.67 | 0.56 | 5.60 | 6.98 | 0.01 | 0.26 | — | 0.26 | 0.23 | — | 0.23 | — | 1,305 | 1,305 | 0.05 | 0.01 | — | 1,309 |
| Onsite truck | 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 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.35 | 0.30 | 2.97 | 3.70 | 0.01 | 0.14 | — | 0.14 | 0.12 | — | 0.12 | — | 692 | 692 | 0.03 | 0.01 | — | 694 |
| Onsite truck | 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 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.06 | 0.05 | 0.54 | 0.68 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | — | 115 | 115 | < 0.005 | < 0.005 | — | 115 |
| Onsite truck | 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 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.03 | 0.03 | 0.03 | 0.48 | 0.00 | 0.00 | 0.08 | 0.08 | 0.00 | 0.02 | 0.02 | — | 82.8 | 82.8 | < 0.005 | < 0.005 | 0.33 | 84.1 |
| Vendor | < 0.005 | < 0.005 | 0.08 | 0.02 | < 0.005 | < 0.005 | 0.02 | 0.02 | < 0.005 | 0.01 | 0.01 | — | 69.7 | 69.7 | < 0.005 | 0.01 | 0.20 | 73.1 |
| Hauling | 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 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.03 | 0.03 | 0.03 | 0.36 | 0.00 | 0.00 | 0.08 | 0.08 | 0.00 | 0.02 | 0.02 | — | 76.1 | 76.1 | < 0.005 | < 0.005 | 0.01 | 77.1 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Vendor | < 0.005 | < 0.005 | 0.08 | 0.03 | < 0.005 | < 0.005 | 0.02 | 0.02 | < 0.005 | 0.01 | 0.01 | — | 69.8 | 69.8 | < 0.005 | 0.01 | 0.01 | 72.9 |
| Hauling | 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 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.02 | 0.01 | 0.02 | 0.20 | 0.00 | 0.00 | 0.04 | 0.04 | 0.00 | 0.01 | 0.01 | — | 40.9 | 40.9 | < 0.005 | < 0.005 | 0.08 | 41.5 |
| Vendor | < 0.005 | < 0.005 | 0.04 | 0.01 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 37.0 | 37.0 | < 0.005 | 0.01 | 0.04 | 38.7 |
| Hauling | 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 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.04 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | < 0.005 | < 0.005 | — | 6.77 | 6.77 | < 0.005 | < 0.005 | 0.01 | 6.86 |
| Vendor | < 0.005 | < 0.005 | 0.01 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 6.12 | 6.12 | < 0.005 | < 0.005 | 0.01 | 6.41 |
| Hauling | 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 | 0.00 |

## 3.11. Paving (2024) - Unmitigated

### Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.63 | 0.53 | 4.52 | 5.32 | 0.01 | 0.21 | — | 0.21 | 0.19 | — | 0.19 | — | 823 | 823 | 0.03 | 0.01 | — | 826 |
| Paving | — | 0.00 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | 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 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.63 | 0.53 | 4.52 | 5.32 | 0.01 | 0.21 | — | 0.21 | 0.19 | — | 0.19 | — | 823 | 823 | 0.03 | 0.01 | — | 826 |
| Paving | — | 0.00 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite truck | 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 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.04 | 0.03 | 0.27 | 0.32 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 49.6 | 49.6 | < 0.005 | < 0.005 | — | 49.8 |
| Paving | — | 0.00 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | 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 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.01 | 0.01 | 0.05 | 0.06 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 8.22 | 8.22 | < 0.005 | < 0.005 | — | 8.24 |
| Paving | — | 0.00 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | 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 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.10 | 0.09 | 0.08 | 1.46 | 0.00 | 0.00 | 0.23 | 0.23 | 0.00 | 0.05 | 0.05 | — | 252 | 252 | 0.01 | 0.01 | 1.00 | 256 |
| Vendor | 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 | 0.00 |
| Hauling | 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 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.09 | 0.08 | 0.10 | 1.10 | 0.00 | 0.00 | 0.23 | 0.23 | 0.00 | 0.05 | 0.05 | — | 231 | 231 | 0.01 | 0.01 | 0.03 | 234 |
| Vendor | 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 | 0.00 |
| Hauling | 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 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.01 | 0.01 | 0.01 | 0.07 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | < 0.005 | < 0.005 | — | 14.1 | 14.1 | < 0.005 | < 0.005 | 0.03 | 14.3 |
| Vendor | 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 | 0.00 |

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| Hauling | 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 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 2.34 | 2.34 | < 0.005 | < 0.005 | < 0.005 | 2.37 |
| Vendor | 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 | 0.00 |
| Hauling | 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 | 0.00 |

## 3.12. Paving (2024) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.63 | 0.53 | 4.52 | 5.32 | 0.01 | 0.21 | — | 0.21 | 0.19 | — | 0.19 | — | 823 | 823 | 0.03 | 0.01 | — | 826 |
| Paving | — | 0.00 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | 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 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.63 | 0.53 | 4.52 | 5.32 | 0.01 | 0.21 | — | 0.21 | 0.19 | — | 0.19 | — | 823 | 823 | 0.03 | 0.01 | — | 826 |
| Paving | — | 0.00 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | 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 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.04 | 0.03 | 0.27 | 0.32 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 49.6 | 49.6 | < 0.005 | < 0.005 | — | 49.8 |
| Paving | — | 0.00 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite truck | 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 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.01 | 0.01 | 0.05 | 0.06 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 8.22 | 8.22 | < 0.005 | < 0.005 | — | 8.24 |
| Paving | — | 0.00 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | 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 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.10 | 0.09 | 0.08 | 1.46 | 0.00 | 0.00 | 0.23 | 0.23 | 0.00 | 0.05 | 0.05 | — | 252 | 252 | 0.01 | 0.01 | 1.00 | 256 |
| Vendor | 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 | 0.00 |
| Hauling | 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 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.09 | 0.08 | 0.10 | 1.10 | 0.00 | 0.00 | 0.23 | 0.23 | 0.00 | 0.05 | 0.05 | — | 231 | 231 | 0.01 | 0.01 | 0.03 | 234 |
| Vendor | 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 | 0.00 |
| Hauling | 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 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.01 | 0.01 | 0.01 | 0.07 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | < 0.005 | < 0.005 | — | 14.1 | 14.1 | < 0.005 | < 0.005 | 0.03 | 14.3 |
| Vendor | 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 | 0.00 |
| Hauling | 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 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 2.34 | 2.34 | < 0.005 | < 0.005 | < 0.005 | 2.37 |
| Vendor | 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 | 0.00 |
| Hauling | 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 | 0.00 |

## 3.13. Architectural Coating (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.17 | 0.14 | 0.91 | 1.15 | < 0.005 | 0.03 | — | 0.03 | 0.03 | — | 0.03 | — | 134 | 134 | 0.01 | < 0.005 | — | 134 |
| Architectural Coatings | — | 0.00 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | 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 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.01 | 0.01 | 0.06 | 0.08 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 8.78 | 8.78 | < 0.005 | < 0.005 | — | 8.81 |
| Architectural Coatings | — | 0.00 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | 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 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 1.45 | 1.45 | < 0.005 | < 0.005 | — | 1.46 |
| Architectural Coatings | — | 0.00 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite truck | 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 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.01 | 0.01 | 0.01 | 0.07 | 0.00 | 0.00 | 0.02 | 0.02 | 0.00 | < 0.005 | < 0.005 | — | 15.2 | 15.2 | < 0.005 | < 0.005 | < 0.005 | 15.4 |
| Vendor | 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 | 0.00 |
| Hauling | 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 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 1.01 | 1.01 | < 0.005 | < 0.005 | < 0.005 | 1.03 |
| Vendor | 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 | 0.00 |
| Hauling | 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 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 0.17 | 0.17 | < 0.005 | < 0.005 | < 0.005 | 0.17 |
| Vendor | 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 | 0.00 |
| Hauling | 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 | 0.00 |

## 3.14. Architectural Coating (2024) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.17 | 0.14 | 0.91 | 1.15 | < 0.005 | 0.03 | — | 0.03 | 0.03 | — | 0.03 | — | 134 | 134 | 0.01 | < 0.005 | — | 134 |
| Architectural Coatings | — | 0.00 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | 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 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.01 | 0.01 | 0.06 | 0.08 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 8.78 | 8.78 | < 0.005 | < 0.005 | — | 8.81 |
| Architectural Coatings | — | 0.00 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | 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 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 1.45 | 1.45 | < 0.005 | < 0.005 | — | 1.46 |
| Architectural Coatings | — | 0.00 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | 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 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.01 | 0.01 | 0.01 | 0.07 | 0.00 | 0.00 | 0.02 | 0.02 | 0.00 | < 0.005 | < 0.005 | — | 15.2 | 15.2 | < 0.005 | < 0.005 | < 0.005 | 15.4 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Vendor | 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 | 0.00 |
| Hauling | 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 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 1.01 | 1.01 | < 0.005 | < 0.005 | < 0.005 | 1.03 |
| Vendor | 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 | 0.00 |
| Hauling | 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 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 0.17 | 0.17 | < 0.005 | < 0.005 | < 0.005 | 0.17 |
| Vendor | 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 | 0.00 |
| Hauling | 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 | 0.00 |

# 4. Operations Emissions Details

## 4.1. Mobile Emissions by Land Use

### 4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land Use | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Recreational Swimming Pool | 1.58 | 1.47 | 1.20 | 10.8 | 0.03 | 0.02 | 2.13 | 2.15 | 0.02 | 0.54 | 0.56 | — | 2,572 | 2,572 | 0.11 | 0.12 | 9.65 | 2,619 |
| Total | 1.58 | 1.47 | 1.20 | 10.8 | 0.03 | 0.02 | 2.13 | 2.15 | 0.02 | 0.54 | 0.56 | — | 2,572 | 2,572 | 0.11 | 0.12 | 9.65 | 2,619 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Recreational Swimming Pool | 1.48 | 1.36 | 1.29 | 9.22 | 0.02 | 0.02 | 2.13 | 2.15 | 0.02 | 0.54 | 0.56 | — | 2,416 | 2,416 | 0.12 | 0.12 | 0.25 | 2,456 |
| Total | 1.48 | 1.36 | 1.29 | 9.22 | 0.02 | 0.02 | 2.13 | 2.15 | 0.02 | 0.54 | 0.56 | — | 2,416 | 2,416 | 0.12 | 0.12 | 0.25 | 2,456 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Recreational Swimming Pool | 0.22 | 0.20 | 0.20 | 1.44 | < 0.005 | < 0.005 | 0.32 | 0.32 | < 0.005 | 0.08 | 0.08 | — | 334 | 334 | 0.02 | 0.02 | 0.57 | 340 |
| Total | 0.22 | 0.20 | 0.20 | 1.44 | < 0.005 | < 0.005 | 0.32 | 0.32 | < 0.005 | 0.08 | 0.08 | — | 334 | 334 | 0.02 | 0.02 | 0.57 | 340 |

### 4.1.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land Use | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Recreational Swimming Pool | 1.58 | 1.47 | 1.20 | 10.8 | 0.03 | 0.02 | 2.13 | 2.15 | 0.02 | 0.54 | 0.56 | — | 2,572 | 2,572 | 0.11 | 0.12 | 9.65 | 2,619 |
| Total | 1.58 | 1.47 | 1.20 | 10.8 | 0.03 | 0.02 | 2.13 | 2.15 | 0.02 | 0.54 | 0.56 | — | 2,572 | 2,572 | 0.11 | 0.12 | 9.65 | 2,619 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Recreational Swimming Pool | 1.48 | 1.36 | 1.29 | 9.22 | 0.02 | 0.02 | 2.13 | 2.15 | 0.02 | 0.54 | 0.56 | — | 2,416 | 2,416 | 0.12 | 0.12 | 0.25 | 2,456 |
| Total | 1.48 | 1.36 | 1.29 | 9.22 | 0.02 | 0.02 | 2.13 | 2.15 | 0.02 | 0.54 | 0.56 | — | 2,416 | 2,416 | 0.12 | 0.12 | 0.25 | 2,456 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Recreational Swimming Pool | 0.22 | 0.20 | 0.20 | 1.44 | < 0.005 | < 0.005 | 0.32 | 0.32 | < 0.005 | 0.08 | 0.08 | — | 334 | 334 | 0.02 | 0.02 | 0.57 | 340 |
| Total | 0.22 | 0.20 | 0.20 | 1.44 | < 0.005 | < 0.005 | 0.32 | 0.32 | < 0.005 | 0.08 | 0.08 | — | 334 | 334 | 0.02 | 0.02 | 0.57 | 340 |

## 4.2. Energy

### 4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land Use | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Recreational Swimming Pool | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Recreational Swimming Pool | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Recreational Swimming Pool | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |

### 4.2.2. Electricity Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land Use | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Recreational Swimming Pool | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Recreational Swimming Pool | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Recreational Swimming Pool | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |

### 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land Use | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Recreational Swimming Pool | 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 |
| Total | 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 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Recreational Swimming Pool | 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 |
| Total | 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 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Recreational Swimming Pool | 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 |
| Total | 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 |

### 4.2.4. Natural Gas Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land Use | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Recreational Swimming Pool | 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 |
| Total | 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 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Recreational Swimming Pool | 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 |
| Total | 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 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Recreational Swimming Pool | 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 |
| Total | 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 |

## 4.3. Area Emissions by Source

### 4.3.2. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Source | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Consumer Products | — | 0.00 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Architectural Coatings | — | 0.00 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Landscape Equipment | 0.11 | 0.10 | 0.01 | 0.60 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 2.45 | 2.45 | < 0.005 | < 0.005 | — | 2.46 |
| Total | 0.11 | 0.10 | 0.01 | 0.60 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 2.45 | 2.45 | < 0.005 | < 0.005 | — | 2.46 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Consumer Products | — | 0.00 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Architectural Coatings | — | 0.00 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | 0.00 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Consumer Products | — | 0.00 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Architectural | — | 0.00 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Landscape Equipment | 0.01 | 0.01 | < 0.005 | 0.07 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 0.28 | 0.28 | < 0.005 | < 0.005 | — | 0.28 |
| Total | 0.01 | 0.01 | < 0.005 | 0.07 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 0.28 | 0.28 | < 0.005 | < 0.005 | — | 0.28 |

### 4.3.1. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Source | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Consumer Products | — | 0.00 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Architectural Coatings | — | 0.00 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Landscape Equipment | 0.11 | 0.10 | 0.01 | 0.60 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 2.45 | 2.45 | < 0.005 | < 0.005 | — | 2.46 |
| Total | 0.11 | 0.10 | 0.01 | 0.60 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 2.45 | 2.45 | < 0.005 | < 0.005 | — | 2.46 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Consumer Products | — | 0.00 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Architectural Coatings | — | 0.00 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total | — | 0.00 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Consumer Products | — | 0.00 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Architectural Coatings | — | 0.00 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Landscape Equipment | 0.01 | 0.01 | < 0.005 | 0.07 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 0.28 | 0.28 | < 0.005 | < 0.005 | — | 0.28 |
| Total | 0.01 | 0.01 | < 0.005 | 0.07 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 0.28 | 0.28 | < 0.005 | < 0.005 | — | 0.28 |

## 4.4. Water Emissions by Land Use

### 4.4.2. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land Use | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Recreational Swimming Pool | — | — | — | — | — | — | — | — | — | — | — | 1.40 | 4.76 | 6.16 | 0.14 | < 0.005 | — | 10.8 |
| Total | — | — | — | — | — | — | — | — | — | — | — | 1.40 | 4.76 | 6.16 | 0.14 | < 0.005 | — | 10.8 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Recreational Swimming Pool | — | — | — | — | — | — | — | — | — | — | — | 1.40 | 4.76 | 6.16 | 0.14 | < 0.005 | — | 10.8 |
| Total | — | — | — | — | — | — | — | — | — | — | — | 1.40 | 4.76 | 6.16 | 0.14 | < 0.005 | — | 10.8 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Recreational Swimming Pool | — | — | — | — | — | — | — | — | — | — | — | 0.23 | 0.79 | 1.02 | 0.02 | < 0.005 | — | 1.79 |
| Total | — | — | — | — | — | — | — | — | — | — | — | 0.23 | 0.79 | 1.02 | 0.02 | < 0.005 | — | 1.79 |

### 4.4.1. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land Use | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Recreational Swimming Pool | — | — | — | — | — | — | — | — | — | — | — | 1.40 | 4.76 | 6.16 | 0.14 | < 0.005 | — | 10.8 |
| Total | — | — | — | — | — | — | — | — | — | — | — | 1.40 | 4.76 | 6.16 | 0.14 | < 0.005 | — | 10.8 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Recreational Swimming Pool | — | — | — | — | — | — | — | — | — | — | — | 1.40 | 4.76 | 6.16 | 0.14 | < 0.005 | — | 10.8 |
| Total | — | — | — | — | — | — | — | — | — | — | — | 1.40 | 4.76 | 6.16 | 0.14 | < 0.005 | — | 10.8 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Recreational Swimming Pool | — | — | — | — | — | — | — | — | — | — | — | 0.23 | 0.79 | 1.02 | 0.02 | < 0.005 | — | 1.79 |
| Total | — | — | — | — | — | — | — | — | — | — | — | 0.23 | 0.79 | 1.02 | 0.02 | < 0.005 | — | 1.79 |

## 4.5. Waste Emissions by Land Use

### 4.5.2. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land Use | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Recreational Swimming Pool | — | — | — | — | — | — | — | — | — | — | — | 38.0 | 0.00 | 38.0 | 3.80 | 0.00 | — | 133 |
| Total | — | — | — | — | — | — | — | — | — | — | — | 38.0 | 0.00 | 38.0 | 3.80 | 0.00 | — | 133 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Recreational Swimming Pool | — | — | — | — | — | — | — | — | — | — | — | 38.0 | 0.00 | 38.0 | 3.80 | 0.00 | — | 133 |
| Total | — | — | — | — | — | — | — | — | — | — | — | 38.0 | 0.00 | 38.0 | 3.80 | 0.00 | — | 133 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Recreational | — | — | — | — | — | — | — | — | — | — | — | 6.30 | 0.00 | 6.30 | 0.63 | 0.00 | — | 22.0 |
| Total | — | — | — | — | — | — | — | — | — | — | — | 6.30 | 0.00 | 6.30 | 0.63 | 0.00 | — | 22.0 |

### 4.5.1. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land Use | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Recreational Swimming Pool | — | — | — | — | — | — | — | — | — | — | — | 38.0 | 0.00 | 38.0 | 3.80 | 0.00 | — | 133 |
| Total | — | — | — | — | — | — | — | — | — | — | — | 38.0 | 0.00 | 38.0 | 3.80 | 0.00 | — | 133 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Recreational Swimming Pool | — | — | — | — | — | — | — | — | — | — | — | 38.0 | 0.00 | 38.0 | 3.80 | 0.00 | — | 133 |
| Total | — | — | — | — | — | — | — | — | — | — | — | 38.0 | 0.00 | 38.0 | 3.80 | 0.00 | — | 133 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Recreational Swimming Pool | — | — | — | — | — | — | — | — | — | — | — | 6.30 | 0.00 | 6.30 | 0.63 | 0.00 | — | 22.0 |
| Total | — | — | — | — | — | — | — | — | — | — | — | 6.30 | 0.00 | 6.30 | 0.63 | 0.00 | — | 22.0 |

## 4.6. Refrigerant Emissions by Land Use

### 4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land Use | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Recreational Swimming Pool | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.07 | 0.07 |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.07 | 0.07 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Recreational Swimming Pool | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.07 | 0.07 |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.07 | 0.07 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Recreational Swimming Pool | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.01 | 0.01 |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.01 | 0.01 |

### 4.6.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land Use | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Recreational Swimming Pool | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.07 | 0.07 |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.07 | 0.07 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Recreational Swimming Pool | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.07 | 0.07 |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.07 | 0.07 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Recreational Swimming Pool | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.01 | 0.01 |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.01 | 0.01 |

## 4.7. Offroad Emissions By Equipment Type

### 4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Equipment | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

### 4.7.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Equipment Type | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

## 4.8. Stationary Emissions By Equipment Type

### 4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Equipment Type | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

### 4.8.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Equipment Type | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

## 4.9. User Defined Emissions By Equipment Type

### 4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Equipment Type | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

### 4.9.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Equipment Type | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

## 4.10. Soil Carbon Accumulation By Vegetation Type

### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Vegetation | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

### 4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land Use | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

## 4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Species | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Avoided | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Sequestered | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Removed | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Avoided | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Sequestered | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Removed | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Avoided | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Sequestered | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Removed | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

### 4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Vegetation | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

### 4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land Use | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

## 4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Species | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Avoided | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Sequestered | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Removed | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Avoided | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Sequestered | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Removed | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Avoided | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Sequestered | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Removed | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

# 5. Activity Data

## 5.1. Construction Schedule

| Phase Name | Phase Type | Start Date | End Date | Days Per Week | Work Days per Phase | Phase Description |
|---|---|---|---|---|---|---|
| Demolition | Demolition | 10/2/2023 | 11/10/2023 | 5.00 | 30.0 | — |
| Site Preparation | Site Preparation | 11/11/2023 | 11/24/2023 | 5.00 | 10.0 | — |
| Grading | Grading | 11/25/2023 | 12/22/2023 | 5.00 | 20.0 | — |
| Building Construction | Building Construction | 12/23/2023 | 9/27/2024 | 5.00 | 200 | — |

| | | | | | | |
|---|---|---|---|---|---|---|
| Paving | Paving | 9/28/2024 | 10/29/2024 | 5.00 | 22.0 | — |
| Architectural Coating | Architectural Coating | 10/30/2024 | 12/2/2024 | 5.00 | 24.0 | — |

## 5.2. Off-Road Equipment

### 5.2.1. Unmitigated

| Phase Name | Equipment Type | Fuel Type | Engine Tier | Number per Day | Hours Per Day | Horsepower | Load Factor |
|---|---|---|---|---|---|---|---|
| Demolition | Concrete/Industrial Saws | Diesel | Average | 1.00 | 8.00 | 33.0 | 0.73 |
| Demolition | Rubber Tired Dozers | Diesel | Average | 1.00 | 1.00 | 367 | 0.40 |
| Demolition | Tractors/Loaders/Backhoes | Diesel | Average | 2.00 | 6.00 | 84.0 | 0.37 |
| Site Preparation | Graders | Diesel | Average | 1.00 | 8.00 | 148 | 0.41 |
| Site Preparation | Tractors/Loaders/Backhoes | Diesel | Average | 1.00 | 8.00 | 84.0 | 0.37 |
| Grading | Graders | Diesel | Average | 1.00 | 6.00 | 148 | 0.41 |
| Grading | Rubber Tired Dozers | Diesel | Average | 1.00 | 6.00 | 367 | 0.40 |
| Grading | Tractors/Loaders/Backhoes | Diesel | Average | 1.00 | 7.00 | 84.0 | 0.37 |
| Building Construction | Cranes | Diesel | Average | 1.00 | 4.00 | 367 | 0.29 |
| Building Construction | Forklifts | Diesel | Average | 2.00 | 6.00 | 82.0 | 0.20 |
| Building Construction | Tractors/Loaders/Backhoes | Diesel | Average | 2.00 | 8.00 | 84.0 | 0.37 |
| Paving | Cement and Mortar Mixers | Diesel | Average | 4.00 | 6.00 | 10.0 | 0.56 |
| Paving | Pavers | Diesel | Average | 1.00 | 7.00 | 81.0 | 0.42 |
| Paving | Rollers | Diesel | Average | 1.00 | 7.00 | 36.0 | 0.38 |
| Paving | Tractors/Loaders/Backhoes | Diesel | Average | 1.00 | 7.00 | 84.0 | 0.37 |
| Architectural Coating | Air Compressors | Diesel | Average | 1.00 | 6.00 | 37.0 | 0.48 |

### 5.2.2. Mitigated

| Phase Name | Equipment Type | Fuel Type | Engine Tier | Number per Day | Hours Per Day | Horsepower | Load Factor |
|---|---|---|---|---|---|---|---|
| Demolition | Concrete/Industrial Saws | Diesel | Average | 1.00 | 8.00 | 33.0 | 0.73 |
| Demolition | Rubber Tired Dozers | Diesel | Average | 1.00 | 1.00 | 367 | 0.40 |
| Demolition | Tractors/Loaders/Backhoes | Diesel | Average | 2.00 | 6.00 | 84.0 | 0.37 |
| Site Preparation | Graders | Diesel | Average | 1.00 | 8.00 | 148 | 0.41 |
| Site Preparation | Tractors/Loaders/Backhoes | Diesel | Average | 1.00 | 8.00 | 84.0 | 0.37 |
| Grading | Graders | Diesel | Average | 1.00 | 6.00 | 148 | 0.41 |
| Grading | Rubber Tired Dozers | Diesel | Average | 1.00 | 6.00 | 367 | 0.40 |
| Grading | Tractors/Loaders/Backhoes | Diesel | Average | 1.00 | 7.00 | 84.0 | 0.37 |
| Building Construction | Cranes | Diesel | Average | 1.00 | 4.00 | 367 | 0.29 |
| Building Construction | Forklifts | Diesel | Average | 2.00 | 6.00 | 82.0 | 0.20 |
| Building Construction | Tractors/Loaders/Backhoes | Diesel | Average | 2.00 | 8.00 | 84.0 | 0.37 |
| Paving | Cement and Mortar Mixers | Diesel | Average | 4.00 | 6.00 | 10.0 | 0.56 |
| Paving | Pavers | Diesel | Average | 1.00 | 7.00 | 81.0 | 0.42 |
| Paving | Rollers | Diesel | Average | 1.00 | 7.00 | 36.0 | 0.38 |
| Paving | Tractors/Loaders/Backhoes | Diesel | Average | 1.00 | 7.00 | 84.0 | 0.37 |
| Architectural Coating | Air Compressors | Diesel | Average | 1.00 | 6.00 | 37.0 | 0.48 |

## 5.3. Construction Vehicles

### 5.3.1. Unmitigated

| Phase Name | Trip Type | One-Way Trips per Day | Miles per Trip | Vehicle Mix |
|---|---|---|---|---|
| Demolition | — | — | — | — |
| Demolition | Worker | 10.0 | 18.5 | LDA,LDT1,LDT2 |
| Demolition | Vendor | — | 10.2 | HHDT,MHDT |
| Demolition | Hauling | 27.8 | 20.0 | HHDT |
| Demolition | Onsite truck | — | — | HHDT |
| Site Preparation | — | — | — | — |
| Site Preparation | Worker | 5.00 | 18.5 | LDA,LDT1,LDT2 |
| Site Preparation | Vendor | — | 10.2 | HHDT,MHDT |
| Site Preparation | Hauling | 0.00 | 20.0 | HHDT |
| Site Preparation | Onsite truck | — | — | HHDT |
| Grading | — | — | — | — |
| Grading | Worker | 7.50 | 18.5 | LDA,LDT1,LDT2 |
| Grading | Vendor | — | 10.2 | HHDT,MHDT |
| Grading | Hauling | 0.00 | 20.0 | HHDT |
| Grading | Onsite truck | — | — | HHDT |
| Building Construction | — | — | — | — |
| Building Construction | Worker | 5.75 | 18.5 | LDA,LDT1,LDT2 |
| Building Construction | Vendor | 2.25 | 10.2 | HHDT,MHDT |
| Building Construction | Hauling | 0.00 | 20.0 | HHDT |
| Building Construction | Onsite truck | — | — | HHDT |
| Paving | — | — | — | — |
| Paving | Worker | 17.5 | 18.5 | LDA,LDT1,LDT2 |
| Paving | Vendor | — | 10.2 | HHDT,MHDT |
| Paving | Hauling | 0.00 | 20.0 | HHDT |
| Paving | Onsite truck | — | — | HHDT |
| Architectural Coating | — | — | — | — |

| | | | | |
|---|---|---|---|---|
| Architectural Coating | Worker | 1.15 | 18.5 | LDA,LDT1,LDT2 |
| Architectural Coating | Vendor | — | 10.2 | HHDT,MHDT |
| Architectural Coating | Hauling | 0.00 | 20.0 | HHDT |
| Architectural Coating | Onsite truck | — | — | HHDT |

### 5.3.2. Mitigated

| Phase Name | Trip Type | One-Way Trips per Day | Miles per Trip | Vehicle Mix |
|---|---|---|---|---|
| Demolition | — | — | — | — |
| Demolition | Worker | 10.0 | 18.5 | LDA,LDT1,LDT2 |
| Demolition | Vendor | — | 10.2 | HHDT,MHDT |
| Demolition | Hauling | 27.8 | 20.0 | HHDT |
| Demolition | Onsite truck | — | — | HHDT |
| Site Preparation | — | — | — | — |
| Site Preparation | Worker | 5.00 | 18.5 | LDA,LDT1,LDT2 |
| Site Preparation | Vendor | — | 10.2 | HHDT,MHDT |
| Site Preparation | Hauling | 0.00 | 20.0 | HHDT |
| Site Preparation | Onsite truck | — | — | HHDT |
| Grading | — | — | — | — |
| Grading | Worker | 7.50 | 18.5 | LDA,LDT1,LDT2 |
| Grading | Vendor | — | 10.2 | HHDT,MHDT |
| Grading | Hauling | 0.00 | 20.0 | HHDT |
| Grading | Onsite truck | — | — | HHDT |
| Building Construction | — | — | — | — |
| Building Construction | Worker | 5.75 | 18.5 | LDA,LDT1,LDT2 |
| Building Construction | Vendor | 2.25 | 10.2 | HHDT,MHDT |
| Building Construction | Hauling | 0.00 | 20.0 | HHDT |
| Building Construction | Onsite truck | — | — | HHDT |

| | | | | |
|---|---|---|---|---|
| Paving | — | — | — | — |
| Paving | Worker | 17.5 | 18.5 | LDA,LDT1,LDT2 |
| Paving | Vendor | — | 10.2 | HHDT,MHDT |
| Paving | Hauling | 0.00 | 20.0 | HHDT |
| Paving | Onsite truck | — | — | HHDT |
| Architectural Coating | — | — | — | — |
| Architectural Coating | Worker | 1.15 | 18.5 | LDA,LDT1,LDT2 |
| Architectural Coating | Vendor | — | 10.2 | HHDT,MHDT |
| Architectural Coating | Hauling | 0.00 | 20.0 | HHDT |
| Architectural Coating | Onsite truck | — | — | HHDT |

## 5.4. Vehicles

### 5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

## 5.5. Architectural Coatings

| Phase Name | Residential Interior Area Coated (sq ft) | Residential Exterior Area Coated (sq ft) | Non-Residential Interior Area Coated (sq ft) | Non-Residential Exterior Area Coated (sq ft) | Parking Area Coated (sq ft) |
|---|---|---|---|---|---|
| Architectural Coating | 0.00 | 0.00 | 0.00 | 0.00 | — |

## 5.6. Dust Mitigation

### 5.6.1. Construction Earthmoving Activities

| Phase Name | Material Imported (cy) | Material Exported (cy) | Acres Graded (acres) | Material Demolished (Building Square Footage) | Acres Paved (acres) |
|---|---|---|---|---|---|
| Demolition | 0.00 | 0.00 | 0.00 | 72,500 | — |
| Site Preparation | — | — | 5.00 | 0.00 | — |
| Grading | — | — | 15.0 | 0.00 | — |

| | | | | | |
|---|---|---|---|---|---|
| Paving | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

### 5.6.2. Construction Earthmoving Control Strategies

Non-applicable. No control strategies activated by user.

## 5.7. Construction Paving

| Land Use | Area Paved (acres) | % Asphalt |
|---|---|---|
| Recreational Swimming Pool | 0.00 | 0% |

## 5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

| Year | kWh per Year | CO2 | CH4 | N2O |
|---|---|---|---|---|
| 2023 | 0.00 | 532 | 0.03 | < 0.005 |
| 2024 | 0.00 | 532 | 0.03 | < 0.005 |

## 5.9. Operational Mobile Sources

### 5.9.1. Unmitigated

| Land Use Type | Trips/Weekday | Trips/Saturday | Trips/Sunday | Trips/Year | VMT/Weekday | VMT/Saturday | VMT/Sunday | VMT/Year |
|---|---|---|---|---|---|---|---|---|
| Recreational Swimming Pool | 357 | 113 | 168 | 107,674 | 3,004 | 949 | 1,418 | 906,682 |

### 5.9.2. Mitigated

| Land Use Type | Trips/Weekday | Trips/Saturday | Trips/Sunday | Trips/Year | VMT/Weekday | VMT/Saturday | VMT/Sunday | VMT/Year |
|---|---|---|---|---|---|---|---|---|
| Recreational Swimming Pool | 357 | 113 | 168 | 107,674 | 3,004 | 949 | 1,418 | 906,682 |

## 5.10. Operational Area Sources

### 5.10.1. Hearths

#### 5.10.1.1. Unmitigated

#### 5.10.1.2. Mitigated

### 5.10.2. Architectural Coatings

| Residential Interior Area Coated (sq ft) | Residential Exterior Area Coated (sq ft) | Non-Residential Interior Area Coated (sq ft) | Non-Residential Exterior Area Coated (sq ft) | Parking Area Coated (sq ft) |
|---|---|---|---|---|
| 0 | 0.00 | 0.00 | 0.00 | — |

### 5.10.3. Landscape Equipment

| Season | Unit | Value |
|---|---|---|
| Snow Days | day/yr | 0.00 |
| Summer Days | day/yr | 250 |

### 5.10.4. Landscape Equipment - Mitigated

| Season | Unit | Value |
|---|---|---|
| Snow Days | day/yr | 0.00 |
| Summer Days | day/yr | 250 |

## 5.11. Operational Energy Consumption

### 5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

| Land Use | Electricity (kWh/yr) | CO2 | CH4 | N2O | Natural Gas (kBTU/yr) |
|---|---|---|---|---|---|

| | | | | | |
|---|---|---|---|---|---|
| Recreational Swimming Pool | 0.00 | 349 | 0.0330 | 0.0040 | 0.00 |

### 5.11.2. Mitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

| Land Use | Electricity (kWh/yr) | CO2 | CH4 | N2O | Natural Gas (kBTU/yr) |
|---|---|---|---|---|---|
| Recreational Swimming Pool | 0.00 | 349 | 0.0330 | 0.0040 | 0.00 |

## 5.12. Operational Water and Wastewater Consumption

### 5.12.1. Unmitigated

| Land Use | Indoor Water (gal/year) | Outdoor Water (gal/year) |
|---|---|---|
| Recreational Swimming Pool | 732,192 | 0.00 |

### 5.12.2. Mitigated

| Land Use | Indoor Water (gal/year) | Outdoor Water (gal/year) |
|---|---|---|
| Recreational Swimming Pool | 732,192 | 0.00 |

## 5.13. Operational Waste Generation

### 5.13.1. Unmitigated

| Land Use | Waste (ton/year) | Cogeneration (kWh/year) |
|---|---|---|
| Recreational Swimming Pool | 70.6 | — |

### 5.13.2. Mitigated

| Land Use | Waste (ton/year) | Cogeneration (kWh/year) |
|---|---|---|
| Recreational Swimming Pool | 70.6 | — |

## 5.14. Operational Refrigeration and Air Conditioning Equipment

### 5.14.1. Unmitigated

| Land Use Type | Equipment Type | Refrigerant | GWP | Quantity (kg) | Operations Leak Rate | Service Leak Rate | Times Serviced |
|---|---|---|---|---|---|---|---|
| Recreational Swimming Pool | Other commercial A/C and heat pumps | R-410A | 2,088 | < 0.005 | 4.00 | 4.00 | 18.0 |
| Recreational Swimming Pool | Stand-alone retail refrigerators and freezers | R-134a | 1,430 | 0.04 | 1.00 | 0.00 | 1.00 |

### 5.14.2. Mitigated

| Land Use Type | Equipment Type | Refrigerant | GWP | Quantity (kg) | Operations Leak Rate | Service Leak Rate | Times Serviced |
|---|---|---|---|---|---|---|---|
| Recreational Swimming Pool | Other commercial A/C and heat pumps | R-410A | 2,088 | < 0.005 | 4.00 | 4.00 | 18.0 |
| Recreational Swimming Pool | Stand-alone retail refrigerators and freezers | R-134a | 1,430 | 0.04 | 1.00 | 0.00 | 1.00 |

## 5.15. Operational Off-Road Equipment

### 5.15.1. Unmitigated

| Equipment Type | Fuel Type | Engine Tier | Number per Day | Hours Per Day | Horsepower | Load Factor |
|---|---|---|---|---|---|---|

### 5.15.2. Mitigated

| Equipment Type | Fuel Type | Engine Tier | Number per Day | Hours Per Day | Horsepower | Load Factor |
|---|---|---|---|---|---|---|

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

| Equipment Type | Fuel Type | Number per Day | Hours per Day | Hours per Year | Horsepower | Load Factor |
|---|---|---|---|---|---|---|

### 5.16.2. Process Boilers

| Equipment Type | Fuel Type | Number | Boiler Rating (MMBtu/hr) | Daily Heat Input (MMBtu/day) | Annual Heat Input (MMBtu/yr) |
|---|---|---|---|---|---|

## 5.17. User Defined

| Equipment Type | Fuel Type |
|---|---|
| — | — |

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

| Vegetation Land Use Type | Vegetation Soil Type | Initial Acres | Final Acres |
|---|---|---|---|

#### 5.18.1.2. Mitigated

| Vegetation Land Use Type | Vegetation Soil Type | Initial Acres | Final Acres |
|---|---|---|---|

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

| Biomass Cover Type | Initial Acres | Final Acres |
|---|---|---|

#### 5.18.1.2. Mitigated

| Biomass Cover Type | Initial Acres | Final Acres |
|---|---|---|

### 5.18.2. Sequestration

#### 5.18.2.1. Unmitigated

| Tree Type | Number | Electricity Saved (kWh/year) | Natural Gas Saved (btu/year) |
|---|---|---|---|

#### 5.18.2.2. Mitigated

| Tree Type | Number | Electricity Saved (kWh/year) | Natural Gas Saved (btu/year) |
|---|---|---|---|

# 6. Climate Risk Detailed Report

## 6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

| Climate Hazard | Result for Project Location | Unit |
|---|---|---|
| Temperature and Extreme Heat | 18.4 | annual days of extreme heat |
| Extreme Precipitation | 2.90 | annual days with precipitation above 20 mm |
| Sea Level Rise | 0.00 | meters of inundation depth |
| Wildfire | 12.9 | annual hectares burned |

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

## 6.2. Initial Climate Risk Scores

| Climate Hazard | Exposure Score | Sensitivity Score | Adaptive Capacity Score | Vulnerability Score |
|---|---|---|---|---|
| Temperature and Extreme Heat | 2 | 0 | 0 | N/A |
| Extreme Precipitation | N/A | N/A | N/A | N/A |
| Sea Level Rise | 1 | 0 | 0 | N/A |
| Wildfire | 1 | 0 | 0 | N/A |
| Flooding | N/A | N/A | N/A | N/A |
| Drought | N/A | N/A | N/A | N/A |
| Snowpack Reduction | N/A | N/A | N/A | N/A |
| Air Quality Degradation | 0 | 0 | 0 | N/A |

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

## 6.3. Adjusted Climate Risk Scores

| Climate Hazard | Exposure Score | Sensitivity Score | Adaptive Capacity Score | Vulnerability Score |
|---|---|---|---|---|
| Temperature and Extreme Heat | 2 | 1 | 1 | 3 |
| Extreme Precipitation | N/A | N/A | N/A | N/A |
| Sea Level Rise | 1 | 1 | 1 | 2 |
| Wildfire | 1 | 1 | 1 | 2 |
| Flooding | N/A | N/A | N/A | N/A |
| Drought | N/A | N/A | N/A | N/A |
| Snowpack Reduction | N/A | N/A | N/A | N/A |

| | | | | |
|---|---|---|---|---|
| Air Quality Degradation | 1 | 1 | 1 | 2 |

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

## 6.4. Climate Risk Reduction Measures

# 7. Health and Equity Details

## 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

| Indicator | Result for Project Census Tract |
|---|---|
| Exposure Indicators | — |
| AQ-Ozone | 80.0 |
| AQ-PM | 89.9 |
| AQ-DPM | 63.8 |
| Drinking Water | 73.7 |
| Lead Risk Housing | 21.4 |
| Pesticides | 0.00 |
| Toxic Releases | 67.0 |
| Traffic | 73.7 |
| Effect Indicators | — |
| CleanUp Sites | 11.8 |
| Groundwater | 10.6 |
| Haz Waste Facilities/Generators | 85.6 |
| Impaired Water Bodies | 0.00 |
| Solid Waste | 39.7 |

| | |
|---|---|
| Sensitive Population | — |
| Asthma | 12.3 |
| Cardio-vascular | 68.1 |
| Low Birth Weights | 31.5 |
| Socioeconomic Factor Indicators | — |
| Education | 46.8 |
| Housing | 76.3 |
| Linguistic | 40.4 |
| Poverty | 36.4 |
| Unemployment | 76.7 |

## 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

| Indicator | Result for Project Census Tract |
|---|---|
| Economic | — |
| Above Poverty | 41.72975747 |
| Employed | 40.65186706 |
| Median HI | 36.30180932 |
| Education | — |
| Bachelor's or higher | 43.46208136 |
| High school enrollment | 100 |
| Preschool enrollment | 12.16476325 |
| Transportation | — |
| Auto Access | 29.34684974 |
| Active commuting | 29.62915437 |
| Social | — |
| 2-parent households | 60.63133581 |

| | |
|---|---|
| Voting | 31.695111 |
| Neighborhood | — |
| Alcohol availability | 76.337739 |
| Park access | 38.95803927 |
| Retail density | 90.18349801 |
| Supermarket access | 52.26485307 |
| Tree canopy | 14.6413448 |
| Housing | — |
| Homeownership | 48.67188503 |
| Housing habitability | 38.39343 |
| Low-inc homeowner severe housing cost burden | 40.02309765 |
| Low-inc renter severe housing cost burden | 21.429488 |
| Uncrowded housing | 43.53907353 |
| Health Outcomes | — |
| Insured adults | 64.54510458 |
| Arthritis | 32.0 |
| Asthma ER Admissions | 85.6 |
| High Blood Pressure | 34.2 |
| Cancer (excluding skin) | 27.6 |
| Asthma | 49.0 |
| Coronary Heart Disease | 54.4 |
| Chronic Obstructive Pulmonary Disease | 53.7 |
| Diagnosed Diabetes | 62.8 |
| Life Expectancy at Birth | 87.3 |
| Cognitively Disabled | 60.3 |
| Physically  Disabled | 50.9 |
| Heart Attack ER Admissions | 39.6 |

| | |
|---|---|
| Mental Health Not Good | 58.7 |
| Chronic Kidney Disease | 45.1 |
| Obesity | 43.9 |
| Pedestrian Injuries | 70.4 |
| Physical Health Not Good | 59.3 |
| Stroke | 58.2 |
| Health Risk Behaviors | — |
| Binge Drinking | 28.2 |
| Current Smoker | 57.8 |
| No Leisure Time for Physical Activity | 57.0 |
| Climate Change Exposures | — |
| Wildfire Risk | 0.0 |
| SLR Inundation Area | 0.0 |
| Children | 69.7 |
| Elderly | 31.8 |
| English Speaking | 39.9 |
| Foreign-born | 40.5 |
| Outdoor Workers | 40.9 |
| Climate Change Adaptive Capacity | — |
| Impervious Surface Cover | 47.5 |
| Traffic Density | 78.2 |
| Traffic Access | 23.0 |
| Other Indices | — |
| Hardship | 50.8 |
| Other Decision Support | — |
| 2016 Voting | 44.2 |

## 7.3. Overall Health & Equity Scores

| Metric | Result for Project Census Tract |
|---|---|
| CalEnviroScreen 4.0 Score for Project Location (a) | 56.0 |
| Healthy Places Index Score for Project Location (b) | 37.0 |
| Project Located in a Designated Disadvantaged Community (Senate Bill 535) | No |
| Project Located in a Low-Income Community (Assembly Bill 1550) | No |
| Project Located in a Community Air Protection Program Community (Assembly Bill 617) | No |

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

## 7.4. Health & Equity Measures

No Health & Equity Measures selected.

## 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

## 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

# 8. User Changes to Default Data

| Screen | Justification |
|---|---|
| Land Use | 9981+3718= 13699 sq ft. (buildings - A & B)<br>Swimming pool- 12380 sq ft. |
| Construction: Construction Phases | 307 work days<br>Begin: October 2023<br>End: December 2024 |
| Construction: Architectural Coatings | SCAQMD Rule 1113 AC |

# APPENDIX C

# BIOLOGICAL RESOURCES

| Scientific Name (=Synonym) | Common Name (=Synonym) | Status | General Habitat Description in California | Plant Elevation Range (feet amsl) | BSA Contains Potential Suitable Habitats | BSA is Located Within the Plant Species' Known: | | Potential For Occurrence in the BSA |
|---|---|---|---|---|---|---|---|---|
| | | | | | | Elevation Range | General Distribution | |
| **Listed Endangered, Threatened, Candidate and State Rare Plants: Plants with official status under the federal Endangered Species Act (ESA), the California Endangered Species Act (CESA), and/or the Native Plant Protection Act (NPPA). A species may have other sensitive designations in addition to their federal or state listing.** | | | | | | | | |
| *Ambrosia pumila* | San Diego ambrosia (=dwarf burr ambrosia) | FE, CRPR: 1B.1, WRCMSHCP: Covered (b) | Lifeform: perennial rhizomatous herb<br>Habitats: creek beds, seasonally dry drainages, and floodplains, open habitats such as chaparral and coastal sage scrub in coarse substrates<br>Soils: alkaline soils, sparse grasslands or marginal wetland habitats<br>Wetlands, Drainages, or Seeps: Yes<br>Bloom Period: April to October | 66 – 1,361 | No | Yes | Yes | **Not expected to occur.** The BSA is developed and is comprised of impermeable surfaces; there is not suitable habitat present to support this species. |
| *Dudleya cymosa ssp. ovatifolia* | Santa Monica dudleya | FT, CRPR: 1B.1 | Lifeform: perennial herb<br>Habitats:sedimentary and conglomerate rock on canyon bottoms and shaded slopes in drainages along the south-facing slope of the Santa Monica Mountains,<br>Bloom Period: March to June | 492 – 5,494 | No | Yes | Yes | **Not expected to occur.** The BSA is developed and is comprised of impermeable surfaces; there is not suitable habitat present to support this species. |
| *Astragalus brauntonii* | Braunton's milk-vetch | FE, CRPR: 1B.1 | Lifeform: perennial herb<br>Habitats: valley grasslands, coastal sage scrub, and closed-pine cone coniferous forests<br>Soils: ecently-burned or disturbed chaparral areas particularly on limestone-derived calcareous soils<br>Bloom Period: January to August | 13 – 2,100 | No | Yes | Yes | **Not expected to occur.** The BSA is developed and is comprised of impermeable surfaces; there is not suitable habitat present to support this species. |
| *Eriastrum densifolium ssp. sanctorum* | Santa Ana River woollystar | FE, SE, CRPR: 1B.1, WRCMSHCP: Covered (a) | Lifeform: perennial herb<br>Habitats: open washes and early-successional alluvial fan scrub, fluvial deposits where flooding and scouring occur at a frequency that allows the persistence of open shrublands<br>Soils: gravelly soils, sandy soils, rock mounds and boulder fields<br>Wetlands, Drainages, or Seeps: Yes<br>Bloom Period: April to September | 298 – 2,001 | No | Yes | Yes | **Not expected to occur.** The BSA is developed and is comprised of impermeable surfaces; there is not suitable habitat present to support this species. |
| *Chorizanthe parryi var. fernandina* | San Fernando Valley spineflower | SE, CRPR: 1B.1 | Lifeform: annual herb<br>Habitats: open areas associated with mixed grasslands, chaparral, and coastal sage scrub communities<br>Soils: sandy and gravelly places associated with sandstone<br>Wetlands, Drainages, or Seeps: Yes ( sometimes)<br>Bloom Period: April to July | 492 – 4,002 | No | Yes | Yes | **Not expected to occur.** The BSA is developed and is comprised of impermeable surfaces; there is not suitable habitat present to support this species. |
| *Dodecahema leptoceras* | slender-horned spineflower | FE, SE, CRPR: 1B.1, WRCMSHCP: Covered (a, b) | Lifeform: annual herb<br>Habitats: flood plains and in washes<br>Soils: sandy soil of alluvium in flood plains and in washes<br>Wetlands, Drainages, or Seeps: Yes<br>Bloom Period: April to June | 656 – 2,493 | No | Yes | Yes | **Not expected to occur.** The BSA is developed and is comprised of impermeable surfaces; there is not suitable habitat present to support this species. |
| *Allium munzii (=Allium fimbriatum var. munzii)* | Munz's onion | FE, ST, CRPR: 1B.1, WRCMSHCP: Covered (b) | Lifeform: perennial bulbiferous herb<br>Habitats: coastal sage scrub, chaparral, juniper woodlands, cismontane woodlands, valley and foothill grasslands<br>Soils: clay soils<br>Bloom Period: March to May | 974 – 3,510 | No | No | Yes | **Not expected to occur.** The BSA is developed and is comprised of impermeable surfaces; there is not suitable habitat present to support this species. |
| *Brodiaea filifolia* | thread-leaved brodiaea (=threadleaf clusterlily) | FT, SE, CRPR: 1B.1, WRCMSHCP: Covered (a, d) | Lifeform: perennial bulbiferous herb<br>Habitats: gentle hillsides, valleys, and floodplains in semi-alkaline mudflats, vernal pools, mesic southern needlegrass grasslands, mixed native-nonnative grasslands and alkali grasslands plant communities<br>Soils: clay to fine sand<br>Bloom Period: March to June | 82 – 3,674 | No | Yes | Yes | **Not expected to occur.** The BSA is developed and is comprised of impermeable surfaces; there is not suitable habitat present to support this species. |
| **Sensitive Plants: These plants have no official status under the ESA, the CESA, and/or the NPPA; however they are designated as sensitive or locally important by federal agencies, state agencies, and/or local conservation agencies and organizations.** | | | | | | | | |
| *Hesperocyparis forbesii (=Callitropsis forbesii and =Cupressus forbesii)* | Tecate cypress | CRPR: 1B.1 | Lifeform: perennial evergreen tree<br>Habitats:north-facing, dry slopes in closed-cone coniferous forests and chaparral<br>Soils: silverado soil formation is exposed (calcareous)<br>Bloom Period: August to October | 262 – 4,920 | No | Yes | Yes | **Not expected to occur.** The BSA is developed and is comprised of impermeable surfaces; there is not suitable habitat present to support this species. |
| *Baccharis malibuensis* | Malibu baccharis | CRPR: 1B.1 | Lifeform: perennial deciduous shrub<br>Habitats: open chaparral, cismontane woodlands, riparian woodlands, and coastal scrub<br>Bloom Period: August | 492 – 1,000 | No | Yes | Yes | **Not expected to occur.** The BSA is developed and is comprised of impermeable surfaces; there is not suitable habitat present to support this species. |
| *Centromadia pungens ssp. laevis (=Hemizonia pungens ssp. laevis)* | smooth tarplant | CRPR: 1B.1, WRCMSHCP: Covered (a, d) | Lifeform: annual herb<br>Habitats: chenopod scrub, meadows and seeps, playas, riparian woodlands, and valley and foothill grasslands; occurs in open, poorly drained flats, depressions, waterway banks and beds, grassland, disturbed sites<br>Soils: alkaline soils<br>Bloom Period: April to September | 0 – 2,099 | No | Yes | Yes | **Not expected to occur.** The BSA is developed and is comprised of impermeable surfaces; there is not suitable habitat present to support this species. |
| *Lasthenia glabrata ssp. coulteri* | Coulter's goldfields | CRPR: 1B.1, WRCMSHCP: Covered (a, d) | Lifeform: annual herb<br>Habitats: openings of cismontane woodlands, coastal scrub, pinyon and juniper woodlands, and valley and foothill grasslands<br>Soils: alkaline or clay soils<br>Bloom Period: February to June | 3 – 4,002 | No | Yes | Yes | **Not expected to occur.** The BSA is developed and is comprised of impermeable surfaces; there is not suitable habitat present to support this species. |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| *Pentachaeta aurea ssp. allenii* | Allen's pentachaeta | CRPR: 1B.1 | Lifeform: annual herb<br>Habitats: valley and foothill grasslands, chaparral, cismontane woodlands, riparian woodlands, coastal sage scrub, and lower montane coniferous forests<br>Soils: dry, open or grassy areas and is often associated with clay substrates<br>Wetlands, Drainages, or Seeps: Yes<br>Bloom Period: March to June | 246 – 1,706 | No | Yes | Yes | **Not expected to occur.** The BSA is developed and is comprised of impermeable surfaces; there is not suitable habitat present to support this species. |
| *Pseudognaphalium leucocephalum (=Gnaphalium leucocephalum)* | white rabbit-tobacco | CRPR: 2B.2 | Lifeform: perennial herb<br>Habitats: chaparral, cismontane woodlands, coastal scrub and riparian woodlands; sandy or gravelly benches, dry stream bottoms, canyon bottoms<br>Soils: sandy and gravelly sites<br>Bloom Period: (July) August to November (December) | 0 – 6,888 | No | Yes | Yes | **Not expected to occur.** The BSA is developed and is comprised of impermeable surfaces; there is not suitable habitat present to support this species. |
| *Symphyotrichum defoliatum (=Aster bernardinus)* | San Bernardino aster | CRPR: 1B.2 | Lifeform: perennial rhizomatous herb<br>Habitats: cismontane woodlands, coastal scrub, lower montane coniferous forests, meadows and seeps, marshes and swamps, and vernally mesic valley and foothill grasslands<br>Soils: moist fine alluvial soils<br>Wetlands, Drainages, or Seeps: Yes<br>Bloom Period: July to November | 7 – 6,691 | No | Yes | Yes | **Not expected to occur.** The BSA is developed and is comprised of impermeable surfaces; there is not suitable habitat present to support this species. |
| *Symphyotrichum greatae (=Aster greatae)* | Greata's aster | CRPR: 1B.3 | Lifeform: perennial rhizomatous herb<br>Habitats: mesic canyons of broad leafed upland forests, chaparral, cismontane woodlands, lower montane coniferous forests, and riparian woodlands<br>Bloom Period: June to October | 984 – 6,593 | No | No | | **Not expected to occur.** The BSA is developed and is comprised of impermeable surfaces; there is not suitable habitat present to support this species. |
| *Harpagonella palmeri (=Pectocarya palmeri)* | Palmer's grapplinghook | WRCMSHCP: Covered | Lifeform: annual herb<br>Habitats: open coastal sage scrub, chaparral, valley and foothill grasslands, and scrub oak woodlands<br>Soils: clay and cobbly clay soils<br>Bloom Period: March to May | 65 – 3,135 | No | Yes | Yes | **Not expected to occur.** The BSA is developed and is comprised of impermeable surfaces; there is not suitable habitat present to support this species. |
| *Dudleya multicaulis* | many-stemmed dudleya | CRPR: 1B.2, WRCMSHCP: Covered (b) | Lifeform: perennial herb<br>Habitats: barrens, rocky places, and ridgelines as well as thinly vegetated openings in chaparral, valley and foothill grasslands, and coastal sage scrub<br>Soils: clay soils, heavy soils, often clay<br>Bloom Period: April to July | 49 – 2,591 | No | Yes | Yes | **Not expected to occur.** The BSA is developed and is comprised of impermeable surfaces; there is not suitable habitat present to support this species. |
| *Astragalus hornii var. hornii* | Horn's milk-vetch | CRPR 1B.1 | Lifeform: annual herb<br>Habitat: meadows and seeps, playas; also lake margins and alkaline areas.<br>Bloom period: May - Octtober | 195 - 2790 | No | Yes | Yes | **Not expected to occur.** The BSA is developed and is comprised of impermeable surfaces; there is not suitable habitat present to support this species. |
| *Lepechinia cardiophylla* | heart-leaved pitcher sage (=Santa Ana pitchersage) | CRPR: 1B.2, WRCMSHCP: Covered (d) | Lifeform: perennial shrub<br>Habitats: chaparral, cismontane woodlands, and closed-cone coniferous forests<br>Bloom Period: April to July | 1,706 – 4,494 | No | No | Yes | **Not expected to occur.** The BSA is developed and is comprised of impermeable surfaces; there is not suitable habitat present to support this species. |
| *Monardella australis ssp. jokersti* | Jokerst's monardella | CRPR: 1B.1 | Lifeform: perennial rhizomatous herb<br>Habitats: chaparral and lower montane coniferous forests on steep scree or talus slopes between breccia, secondary alluvial benches along drainages and washes<br>Bloom Period: July to September | 4,428 – 5,740 | No | No | Yes | **Not expected to occur.** The BSA is developed and is comprised of impermeable surfaces; there is not suitable habitat present to support this species. |
| *Monardella macrantha ssp. hallii* | Hall's monardella | CRPR: 1B.3, WRCMSHCP: Covered | Lifeform: perennial rhizomatous herb<br>Habitats: dry slopes, ridges and openings in broadleaved upland forests, chaparral, lower montane coniferous forests, cismontane woodlands, and valley and foothill grasslands<br>Bloom Period: June to October | 2,394 – 7,200 | No | No | Yes | **Not expected to occur.** The BSA is developed and is comprised of impermeable surfaces; there is not suitable habitat present to support this species. |
| *Mentzelia tricuspis* | spiny-hair blazing star | CRPR: 2B.1 | Lifeform: annual herb<br>Habitat: creosote bush scrub, deserts in SW CA and adjacent mountains in scrub and woodlands habitats<br>Bloom Period: March to May | 165-7,717 | No | Yes | Yes | **Not expected to occur.** The BSA is developed and is comprised of impermeable surfaces; there is not suitable habitat present to support this species. |
| *Sidalcea neomexicana* | salt spring checkerbloom (=mountain sidalcea) | CRPR: 2B.2 | Lifeform: perennial herb<br>Habitats: alkaline, mesic sites in chaparral, coastal scrub, lower montane coniferous forests, Mojavean desert scrub, alkali playas, and brackish marshes<br>Bloom Period: March to June | 49 – 5,018 | No | Yes | Yes | **Not expected to occur.** The BSA is developed and is comprised of impermeable surfaces; there is not suitable habitat present to support this species. |
| *Abronia villosa var. aurita* | chaparral sand-verbena | CRPR: 1B.1 | Lifeform: annual herb<br>Habitats: chaparral, coastal scrub, and desert dunes<br>Soils: sandy soils<br>Bloom Period: January to September | 262 – 5,248 | No | Yes | Yes | **Not expected to occur.** The BSA is developed and is comprised of impermeable surfaces; there is not suitable habitat present to support this species. |
| *Chorizanthe parryi var. parryi* | Parry's spineflower | CRPR: 1B.1, WRCMSHCP: Covered (e) | Lifeform: annual herb<br>Habitats: coastal scrub, chaparral, cismontane woodlands, and valley and foothill grasslands<br>Soils: sandy or rocky soils<br>Bloom Period: April to June | 902 – 4,002 | No | No | Yes | **Not expected to occur.** The BSA is developed and is comprised of impermeable surfaces; there is not suitable habitat present to support this species. |
| *Chorizanthe polygonoides var. longispina* | long-spined spineflower (=knotweed spineflower) | CRPR: 1B.2, WRCMSHCP: Covered | Lifeform: annual herb<br>Habitats: vernal pools, meadows and seeps, valley and foothill grasslands, and openings in coastal scrub, and chaparral<br>Soils: heavy, often rocky, clay soils<br>Wetlands, Drainages, or Seeps: Yes<br>Bloom Period: April to July | 98 – 5,018 | No | Yes | Yes | **Not expected to occur.** The BSA is developed and is comprised of impermeable surfaces; there is not suitable habitat present to support this species. |
| *Allium marvinii* | Yucaipa onion | CRPR: 1B.1, WRCMSHCP: Covered (b) | Lifeform: perennial bulbiferous herb<br>Habitats: openings of chaparral<br>Soils: clay soils<br>Bloom Period: April to May | 2,493 – 3,493 | No | No | Yes | **Not expected to occur.** The BSA is developed and is comprised of impermeable surfaces; there is not suitable habitat present to support this species. |

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| *Calochortus plummerae* | Plummer's mariposa lily | WRCMSHCP: Covered (e) | Lifeform: perennial bulbiferous herb<br>Habitats: chaparral, cismontane woodlands, coastal scrub, valley and foothill grasslands, and lower montane coniferous forests<br>Soils: dry, rocky slopes and soils<br>Bloom Period: May to July | 328 – 5,576 | No | Yes | Yes | **Not expected to occur.** The BSA is developed and is comprised of impermeable surfaces; there is not suitable habitat present to support this species. |
| *Calochortus striatus* | alkali mariposa lily | CRPR: 1B.2 | Lifeform: perennial bulbiferous herb<br>Habitats: Mojavean desert scrub<br>Soils: gravelly clay ridges and ledges, or talus slopes, limestone, volcanic<br>Wetlands, Drainages, or Seeps: Yes<br>Bloom Period: April to June | 230 – 5,232 | No | Yes | Yes | **Not expected to occur.** The BSA is developed and is comprised of impermeable surfaces; there is not suitable habitat present to support this species. |
| *Calochortus weedii var. intermedius* | intermediate mariposa lily (=Weeds mariposa lily) | CRPR: 1B.2, WRCMSHCP: Covered | Lifeform: perennial bulbiferous herb<br>Habitats: dry, rocky open slopes and rock outcrops in coastal scrub and chaparral<br>Bloom Period: May to July | 344 – 2,804 | No | Yes | Yes | **Not expected to occur.** The BSA is developed and is comprised of impermeable surfaces; there is not suitable habitat present to support this species. |
| *Nolina cismontana* | chaparral nolina (=Peninsular nolina and =California beargrass) | CRPR: 1B.2 | Lifeform: perennial evergreen shrub<br>Habitats: chaparral and coastal scrub<br>Soils: sandstone or gabbro soils<br>Bloom Period: March to July | 459 – 4,182 | No | Yes | Yes | **Not expected to occur.** The BSA is developed and is comprised of impermeable surfaces; there is not suitable habitat present to support this species. |
| **Legend and Notes** | | | | | | | | |

***Federal Endangered Species Act (ESA) Listing Codes:*** the ESA is administered by the USFWS and NMFS. The USFWS has primary responsibility for terrestrial and freshwater organisms, while the responsibilities of NMFS are mainly marine wildlife such as whales and anadromous fish such as salmon. For the purposes of the ESA, Congress defined species to include subspecies, varieties, and, for vertebrates, distinct population segments. The official federal listing of Endangered and Threatened plants is published in 50 CFR § 17.12.

- **FE** = federally listed as endangered: any species of plant or animal that is in danger of extinction throughout all or a significant portion of their range.
- **FT** = federally listed as threatened: any species of plant or animal that is considered likely to become endangered throughout all or a significant portion of its range within the foreseeable future.

***California Endangered Species Act (CESA) and California Native Plant Protection Act (NPPA) Listing Codes:*** *tth* e CESA and NPPA are administered by CDFW. The official listing of Plants of California Declared to Be Endangered, Threatened or Rare is contained in the California Code of Regulations, Title 14, § 670.2. Species, subspecies and varieties of California native plants are declared to be endangered, threatened as defined by § 2062 and § 2067 of the Fish and Game Code or rare as defined by § 1901 of the Fish and Game Code.

- **SE = state-listed as endangered:** "endangered species" means a native species or subspecies of a bird, mammal, fish, amphibian, reptile, or plant which is in serious danger of becoming extinct throughout all, or a significant portion, of its range due to one or more causes, including loss of habitat, change in habitat, overexploitation, predation, competition, or disease (Fish and Game Code § 2062).
- **ST = state-listed as threatened:** "threatened species" means a native species or subspecies of a bird, mammal, fish, amphibian, reptile, or plant that, although not presently threatened with extinction, is likely to become an endangered species in the foreseeable future in the absence of the special protection and management efforts (Fish and Game Code § 2067).

***California Rare Plant Ranks*** (Formerly known as CNPS Lists): the CNPS is a statewide, nonprofit organization that maintains, with CDFW, an Inventory of Rare and Endangered Plants of California. In the spring of 2011, CNPS and CDFW officially changed the name "CNPS List" or "CNPS Ranks" to "California Rare Plant Rank" (or CPRP). This was done to reduce confusion over the fact that CNPS and CDFW jointly manage the Rare Plant Status Review Groups and the rank assignments are the product of a collaborative effort and not solely a CNPS assignment.

- **CRPR: 1A** = California Rare Plant Rank 1A - plants presumed extirpated in California and either rare or extinct elsewhere: the plants with a CRPA of 1A are presumed extirpated because they have not been seen or collected in the wild in California for many years. This rank includes plants that are both presumed extinct as well as those plants which are presumed extirpated in California. All of the plants constituting CRPR 1A meet the definitions of § 2062 and § 2067 (CESA) of the Fish and Game Code, and are eligible for state listing. Should these taxa be rediscovered, it is mandatory that they be fully considered during preparation of environmental documents relating to CEQA.
- **CRPR 1B** = California Rare Plant Rank 1B - plants rare, threatened, or endangered in California and elsewhere: plants with a CRPR of 1B are rare throughout their range with the majority of them endemic to California. Most of the plants that are ranked 1B have declined significantly over the last century. All of the plants constituting CRPR 1B meet the definitions of § 2062 and § 2067 (CESA) of the Fish and Game Code, and are eligible for state listing. It is mandatory that they be fully considered during preparation of environmental documents relating to CEQA.
- **CRPR 2A** = California Rare Plant Rank 2A - plants presumed extirpated in California, but more common elsewhere: the plant taxa of CRPR 2A are presumed extirpated because they have not been observed or documented in California for many years. This list includes only those plant taxa that are presumed extirpated in California, but more common elsewhere in their range. All of the plants on List 2A meet the definitions of § 2062 and § 2067 (CESA) of the Fish and Game Code, and are eligible for state listing. Should these taxa be rediscovered, it is mandatory that they be fully considered during preparation of environmental documents relating to CEQA.
- **CRPR 2B** = California Rare Plant Rank 2B - plants rare, threatened, or endangered in California, but more common elsewhere: except for being common beyond the boundaries of California, plants with a CRPR of 2B would have been ranked 1B. From the federal perspective, plants common in other states or countries are not eligible for consideration under the provisions of the ESA. All of the plants constituting CRPR 2B meet the definitions of § 2062 and § 2067 (CESA) of the Fish and Game Code, and are eligible for state listing. It is mandatory that they be fully considered during preparation of environmental documents relating to CEQA.

***California Native Plant Society (CNPS) Threat Ranks:*** The CNPS Threat Rank is an extension added onto the California Rare Plant Rank (CRPR) (as a decimal code) and designates the level of threats by a 1 to 3 ranking with 1 being the most threatened and 3 being the least threatened. A Threat Rank is present for all CRPR 1B's, 2B's, 4's, and the majority of CRPR 3's. CRPR 4 plants are seldom assigned a Threat Rank of .1, as they generally have large enough populations to not have significant threats to their continued existence in California; however, certain conditions exist to make the plant a species of concern and hence be assigned a CRPR. In addition, all CRPR 1A and 2A (presumed extirpated in California), and some CRPR 3 (need more information) plants, which lack threat information, do not have a Threat Rank extension.

- **.1** = seriously threatened in California (over 80% of occurrences threatened / high degree and immediacy of threat)
- **.2** = moderately threatened in California (20-80% occurrences threatened / moderate degree and immediacy of threat)
- **.3** = not very threatened in California (<20% of occurrences threatened / low degree and immediacy of threat or no current threats known)

***Western Riverside County Multiple Species Habitat Conservation Plan (WRCMSHCP):***
The WRCMSHCP provides regulatory coverage for a total of 146 individual species. Under the WRCMSHCP, regulatory coverage means that future incidental take of these species would be permitted for new development and that no additional mitigation under the CESA or ESA would be required over the mitigation provided for by the plan. The following species are identified as "Covered Species" by the WRCMSHCP and the Implementing Agreement. The WRCMSHCP permits would provide take authorization for Covered Species.
- **WRCMSHCP: Covered**: no further surveys are required.
- **WRCMSHCP: Covered (a)**: surveys may be required for these species as part of wetlands mapping (Section 6.1.2 of WRCMSHCP).
- **WRCMSHCP: Covered (b)**: surveys may be required for these species within Narrow Endemic Plant Species survey area (Section 6.1.3 of WRCMSHCP).
- **WRCMSHCP: Covered (d)**: surveys may be required for these species within Criteria Area as (Section 6.3.2 of WRCMSHCP).
- **WRCMSHCP: Covered (e)**: these Covered Species will be considered to be Covered Species Adequately Conserved when conservation requirements identified in species-specific conservation objectives have been met. Species specific conservation objectives for these species are presented in Section 9.0 of the WRCMSHCP. Please refer to Table 9-3 of the WRCMSHCP for specific conservation objectives that must be met for the 16 species prior to including them on the list of Covered Species Adequately Conserved.

***Notes:***

The BSA contains approximate elevations of 781-808 feet amsl.
The BSA encompasses developed areas including Centennial High School facilities, residential and commercial developments, and ornamental vegetation for landscaping purposes.
**Yes** = the BSA is located within the plant species' known distribution, elevation range, and/or the BSA contains suitable habitats and/or soils to support the plant species. The plant species has a potential to occur within the BSA. Further evaluation is needed.
**No** = the BSA is located outside the plant species' known distribution, elevation range, and/or the BSA lacks suitable habitats and/or soils to support the plant species. It is highly unlikely for the plant species to have a potential to occur within the BSA. No further evaluation is needed.

A CNPS elevation range is provided for each taxon in feet. The stated range is for the California portion of a plant's range only (if the taxon also occurs outside the state). These CNPS elevation range data are accumulated from literature, herbarium specimens, and field survey information.

***Resources***

- *The Jepson Desert Manual (Baldwin et al., 2002);*
- *The Jepson Manual: Vascular Plants of California, second edition (Baldwin et al., 2012);*
- *BLM Special Status Plants under the jurisdiction of the California State Office as of October 30, 2013 (BLM, 2013);*
- *The Final Environmental Impact Report and Statement (Final EIR/S) for the West Mojave Plan (BLM, 2005);*
- *Final Environmental Impact Statement. Proposed Northern and Eastern Colorado Desert Coordinated Management Plan (NECO) (BLM and CDFG, 2002);*
- *(Calflora website );*
- *The Status of Rare, Threatened, and Endangered Plants and Animals of California, 2000–2004 (CDFG, 2005);*
- *CNDDB ;*
- *Special Vascular Plants, Bryophytes, and Lichens List (CDFW, 2016);*
- *State and Federally Listed Endangered, Threatened, and Rare Plants of California (CDFW, 2016);*
- *(CNPS website );*
- *(eFloras.org website );*
- *(NatureServe Explorer website );*
- *Rare Plants of San Diego County (Reiser, 2001);*
- *USDA Forest Service, Pacific Southwest Region, Sensitive Plant Species List by Forest (USFS, 2013).*
- *UltraSystems in-house records.*

| Scientific Name (=Synonym) | Common Name (=Synonym) | Status | General Habitat Descriptions in California | The BSA: Located Within Species' Distribution and/or Elevation Range (if known) | The BSA: Contains Suitable Foraging, Roosting, and/or Breeding Habitats | Potential For Occurrence in the BSA |
|---|---|---|---|---|---|---|
| **Listed Endangered, Threatened, and Candidate Wildlife: Wildlife with official status under the federal Endangered Species Act (ESA) and/or the California Endangered Species Act (CESA). A species may have other sensitive designations in addition to their federal or state listing.** | | | | | | |
| **Listed Invertebrates** | | | | | | |
| *Bombus crotchii* | Crotch's bumble bee | SCE | Habitats: grasslands and shrublands. Hotter and drier environment than other bumblebee species. Prefers milkweeds, dusty maidens, lupines, medics, phacelias, sages, clarkias, poppies, and wild buckwheats: This species occurs primarily in California, including the Mediterranean region, Pacific Coast, Western Desert, Great Valley, and adjacent foothills through most of southwestern California. It has also been documented in southwest Nevada, near the California border. | Yes | No | **Not expected to occur**. The BSA does not contain suitable habitat to support this species. |
| *Rhaphiomidas terminatus abdominalis* | Delhi sands flower-loving fly | FE, WRCMSHCP: Covered | Habitats: sparsely vegetated area, providing sparse ground cover (10-20%)<br>Soils: unique, fine, sandy soils | Yes | No | **Not expected to occur**. The BSA does not contain suitable habitat to support this species. |
| *Danaus plexippus* pop. 1 | monarch butterfly | FC: California overwintering population | Habitats: wind-protected tree groves (eucalyptus [*Eucalyptus* sp.], Monterey pine [*Pinus radiata* ], cypress), with nectar and water sources nearby | Yes | No | **Low potential to occur.** This species may utilize the trees along the northern boundary of the project site, however the BSA does not offer high-quality habitat to support this species. |
| *Euphydryas editha quino (=Euphydryas editha wrighti)* | quino checkerspot butterfly | FE, WRCMSHCP: Covered | Habitats: grasslands, remnant forbland, open coastal sage scrub, open chamise chaparral, open red shank chaparral, juniper woodland, and semi-desert scrub, open or sparsely vegetated rounded hilltops, ridgelines, rocky outcrops of chaparral and coastal sage scrub<br>Soils: loamy soils with moderate to high amounts of clay<br>Characteristics: adult butterflies will only deposit eggs on species they recognize as host plants | Yes | No | **Not expected to occur**. The BSA does not contain suitable habitat to support this species. |
| **Listed Fish** | | | | | | |
| *Catostomus santaanae* | Santa Ana sucker | FT, SSC, WRCMSHCP: Covered | Habitats: small, shallow streams, less than 25 feet in width, with currents ranging from swift in the canyons to sluggish in the bottom lands, permanent streams in water ranging in depth from a few centimeters to a meter or more<br>Soils: gravel, rubble, and boulders with growths of filamentous algae, sand/mud substrates<br>Characteristics: most abundant where the water is cool, clean, and clear | Yes | No | **Not expected to occur.** The BSA does not contain suitable habitat to support this species. |
| *Oncorhynchus mykiss irideus* | steelhead – southern California DPS | FE[10], SCE[10] | Habitats: cool, clear, well-oxygenated streams<br>Characteristics: higher-elevation headwaters are primary spawning and rearing areas | Yes | No | **Not expected to occur**. The BSA does not contain suitable habitat to support this species. |
| **Listed Amphibians** | | | | | | |
| *Anaxyrus californicus (=Bufo californicus)* | arroyo toad | FE, SSC, WRCMSHCP: Covered © | Habitats: sandy riverbanks, streams, washes, and arroyos, breeds in and near streams<br>Characteristics: nearby sandy terraces, dampened in places by capillary action, and with some scattered vegetation providing surface sheltering and burrowing sites and foraging areas | Yes | No | **Not expected to occur**. The BSA does not contain suitable habitat to support this species. |
| **Listed Birds** | | | | | | |
| *Elanus leucurus* | white-tailed kite | fully protected, WRCMSHCP: Covered Season of Concern: nesting | Habitats: undisturbed, open grasslands, meadows, emergent wetlands, farmlands, crops, pastures, and other cultivated habitats<br>Characteristics: adjacent to their nesting woodland must be open foraging grasslands | Yes | No | **Not expected to occur**. The BSA does not contain suitable habitat to support this species. |
| *Aquila chrysaetos* | golden eagle | fully protected, WL, BCC, WRCMSHCP: Covered, Season of Concern: nesting and wintering | Habitats: mountainous canyon land, rimrock terrain of open desert and grassland areas, open rolling foothills of grasslands, oak savannas, oak and juniper woodlands, chaparral, mountain areas, and desert, open habitats including grasslands, deserts, savannahs, and shrublands<br>Characteristics: hilly or mountainous country, deeply cut canyons rising to open mountain slopes and crags are ideal habitat | Yes | No | **Not expected to occur.** The BSA does not contain suitable habitat to support this species. |
| *Haliaeetus leucocephalus* | bald eagle | SE, fully protected, BCC, WRCMSHCP: Covered Season of Concern: nesting & wintering | Habitats: seacoasts, rivers, wetlands swamps, and large lakes, in winter in dense, sheltered, remote conifer stands<br>Characteristics: large nests are normally built in the upper canopy of large trees, usually conifers | Yes | No | **Not expected to occur.** The BSA does not contain suitable habitat to support this species. |
| *Buteo swainsoni* | Swainson's hawk | ST, WRCMSHCP: Covered Season of Concern: nesting | Habitats: large, open areas with abundant prey in association with suitable nest trees, native grasslands or lightly grazed pastures and croplands, open deserts, sparse shrub lands<br>Characteristics: nest in juniper trees of juniper-sage flats not near riparian zones | Yes | No | **Not expected to occur**. The BSA does not contain suitable habitat to support this species. |
| *Laterallus jamaicensis coturniculus* | California black rail | ST, fully protected, BCC | Habitats: high coastal marshes to freshwater marshes along the lower Colorado River, pickleweed, bulrushes, and matted salt grass (*Distichlis spicata* ) and other marsh vegetation<br>Characteristics: they use areas of shallow water with relatively stable water levels and flat shoreline | Yes | No | **Not expected to occur.** The BSA does not contain suitable habitat to support this species. |
| *Coccyzus americanus occidentalis* | western yellow-billed cuckoo | FT, SE, WRCMSHCP: Covered (a) | Habitats: relatively dense growths of trees and shrubs in riparian habitats that lines rivers and streams<br>Characteristics: Cuckoos have large home ranges, often exceeding 50 acres, and sometimes approaching 100 acres | Yes | No | **Not expected to occur**. The BSA does not contain suitable habitat to support this species. |
| *Empidonax traillii extimus* | southwestern willow flycatcher | FE, SE, WRCMSHCP: Covered (a) | Habitats: dense riparian tree and shrub communities associated with rivers, swamps, and other wetlands, including lakes, surface water, saturated soil, or herbaceous wetland plants present during the early summer months; woody riparian vegetation is present | Yes | No | **Not expected to occur**. The BSA does not contain suitable habitat to support this species. |
| *Vireo bellii pusillus* | least Bell's vireo | FE, SE, WRCMSHCP: Covered (a) | Habitats: dry, intermittent streams, on the desert slopes mesquite (Prosopis sp.) and sandbar willow in canyon locations, willow-dominated riverine riparian habitats with well-developed overstories, understories, and low densities of aquatic and herbaceous cover | Yes | No | **Not expected to occur**. The BSA does not contain suitable habitat to support this species. |
| *Polioptila californica californica* | coastal California gnatcatcher | FT, SSC, WRCMSHCP: Covered | Habitats: small, non-migratory, permanent resident of coastal sage scrub, small, non-migratory, permanent resident of coastal sage scrub | Yes | No | **Not expected to occur.** The BSA does not contain suitable habitat to support this species. |
| *Agelaius tricolor* | tricolored blackbird | ST, SSC , BCC, WRCMSHCP: Covered Season of Concern: nesting colony | Habitats: fresh water, preferably in emergent wetland with tall, dense cattails (*Typha* sp.) or tules, natural grassland, woodland, or agricultural cropland<br>Characteristics: species is not migratory, but is nomadic and highly colonial | Yes | No | **Not expected to occur**. The BSA does not contain suitable habitat to support this species. |
| **Listed Mammals** | | | | | | |
| *Dipodomys merriami parvus* | San Bernardino kangaroo rat | FE, SCE, SSC, WRCMSHCP: Covered (c) | Habitats: Riversidean alluvial fan sage scrub, river and stream terraces, flood plains, and along washes with nearby sage scrub<br>Soil: sandy loam soils, alluvial fans | Yes | No | **Not expected to occur**. The BSA does not contain suitable habitat to support this species. |

| *Scientific Name (=Synonym)* | Common Name (=Synonym) | Status | General Habitat Descriptions in California | The BSA: | | Potential For Occurrence in the BSA |
|---|---|---|---|---|---|---|
| | | | | Located Within Species' Distribution and/or Elevation Range (if known) | Contains Suitable Foraging, Roosting, and/or Breeding Habitats | |
| *Dipodomys stephensi* | Stephens' kangaroo rat | FT, ST, WRCMSHCP: Covered | Habitats: open annual and perennial grasslands or sparse shrublands such as coastal sage scrub<br>Soil: well drained, gravelly or sandy and sandy loam soils | Yes | No | **Not expected to occur**. The BSA does not contain suitable habitat to support this species. |
| **Sensitive Wildlife: These animals have no official status under the ESA and/or the CESA; however they are designated as sensitive or locally important by federal agencies, state agencies, and/or local conservation agencies and organizations** | | | | | | |
| **Sensitive Invertebrates** | | | | | | |
| *Neolarra alba* | white cuckoo bee | Special Animals List | Habitats: Southern California west of the mountains<br>Soils: sandy | Yes | No | Not expected to occur. The BSA does not contain suitable habitat to support this species. |
| **Sensitive Fish** | | | | | | |
| *Gila orcuttii* | arroyo chub | SSC, WRCMSHCP: Covered | Habitats: slow-moving or backwater sections of warm to cool (10-24 C) streams with mud or sand substrates | Yes | No | **Not expected to occur**. The BSA does not contain suitable habitat to support this species. |
| *Rhinichthys osculus ssp. 3* | Santa Ana speckled dace | SSC | Habitats: shallow cobble and gravel riffles<br>Characteristics: overhanging riparian plants, mainly alders (Alnus sp.) and sedges, provide cover for fish | Yes | No | **Not expected to occur**. The BSA does not contain suitable habitat to support this species. |
| **Sensitive Amphibians** | | | | | | |
| *Spea hammondii* | western spadefoot | SSC, WRCMSHCP: Covered | Habitats: coastal sage scrub, open chaparral, pine-oak woodlands and grassland habitats, grasslands with vernal pools or mixed grassland/coastal sage scrub areas<br>Characteristics: upland habitats adjacent to potential breeding sites in burrows approximating 1 meter in depth | Yes | No | **Not expected to occur.** The BSA does not contain suitable habitat to support this species. |
| *Taricha torosa* | Coast Range newt (=California newt) | SSC (Monterey County and south), WRCMSHCP: Covered | Habitats: terrestrial habitats (grassland, woodland and forest), but breeds in ponds, reservoirs, and slow moving streams within coastal drainages<br>Characteristics: can migrate over 1 km to breeding areas | Yes | No | **Not expected to occur**. The BSA does not contain suitable habitat to support this species. |
| **Sensitive Reptiles** | | | | | | |
| *Actinemys marmorata (=Actinemys marmorata marmorata) (=Emys marmorata)* | northern western pond turtle (=northern western pond turtle) | SSC, WRCMSHCP: Covered | Habitats: stagnant or slow-moving water in aquatic habitats, ponds, lakes, rivers, streams, creeks, marshes, and irrigation ditches, with abundant vegetation, and either rocky or muddy bottoms, in woodland, forest, and grassland | Yes | No | **Not expected to occur.** The BSA does not contain suitable habitat to support this species. |
| *Anniella stebbinsi* | southern California legless lizard | SSC, WRCMSHCP: Covered | Habitats: occurs in many habitats with sandy soil. Habitats: coastal sand dunes and a variety of interior habitats, including sandy washes and alluvial fans. Population occurs in Piute and Tehachapi mountains at elevation of 400-900 m in oak woodland and mixed conifer forest | Yes | No | **Not expected to occur.** The BSA does not contain suitable habitat to support this species. |
| *Phrynosoma blainvillii (=Phrynosoma coronatum) (=Phrynosoma coronatum blainvillei)* | Blainville's horned lizard (=coast horned lizard) (=San Diego horned lizard) | SSC, WRCMSHCP: Covered | Habitats: wide variety of vegetation types including coastal sage scrub, annual grassland, chaparral, oak woodland, riparian woodland and coniferous forest, habitats are loose, fine soils with a high sand fraction; an abundance of native ants or other insects; and open areas with limited overstory for basking and low | Yes | No | **Not expected to occur.** The BSA does not contain suitable habitat to support this species. |
| *Aspidoscelis hyperythra (=Cnemidophorus hyperythrus beldingi)* | orange-throated whiptail | WL, WRCMSHCP: Covered | Habitats: semi-arid brushy areas typically with loose soil and rocks, including washes, stream sides, rocky hillsides, and coastal chaparral<br>Characteristics: friable soil appears to be a necessary requirement for excavating burrows and hiding eggs | Yes | No | **Not expected to occur.** The BSA does not contain suitable habitat to support this species. |
| *Aspidoscelis tigris stejnegeri (=Cnemidophorus tigris multiscutatus)* | San Diegan whiptail (=coastal whiptail) | SSC WRCMSHCP: Covered | Habitats: variety of ecosystems, primarily hot and dry open areas with sparse foliage such as deserts, chaparral and semiarid, found in open, often rocky areas with little vegetation or sunny microhabitats within shrub or grassland<br>Characteristics: ground may be firm soil, sandy, or rocky | Yes | No | **Not expected to occur**. The BSA does not contain suitable habitat to support this species. |
| *Crotalus ruber* | red diamond rattlesnake | SSC, WRCMSHCP: Covered | Habitats: arid scrub, coastal chaparral, oak and pine woodlands, rocky grassland, cultivated areas (it avoids the mountains above around 4,000 feet), to warm inland mesas and valleys<br>Characteristics: need rodent burrows, cracks in rocks or surface cover objects | Yes | No | **Not expected to occur**. The BSA does not contain suitable habitat to support this species. |
| **Sensitive Birds** | | | | | | |
| *Pandion haliaetus* | osprey | WL, WRCMSHCP: Covered<br>Season of Concern: nesting | Habitats: rivers, large streams, lakes, reservoirs, marshes, bays, estuaries, and surf zones<br>Characteristics: nests are usually within 1,312 feet of fish-producing water | Yes | No | **Not expected to occur.** The BSA does not contain suitable habitat to support this species. |
| *Accipiter cooperii* | Cooper's hawk | WL, WRCMSHCP: Covered<br>Season of Concern: nesting | Habitats: ususally mature forest, mostly conifer, also near open woodland and forest edge; usually builds nest on horizontal limb near trunk 6-18m above ground<br>Characteristics: tolerant of human activities near the nest and is seen more often nesting in urban/residential areas | Yes | Yes | **Low potential to occur.** This species may occur in urbanized settings, which are present in the BSA. However, these conditions are not optimal as this species is significantly more likely to occur in areas of mature forest, mostly conifer, also near open woodland and forest edge; all of which are absent from the BSA. |
| *Coturnicops noveboracensis* | yellow rail | SSC, BCC | Habitats: large wet meadows or shallow marshes dominated by sedges and grasses<br>Characteristics: nest is shallow cup of sedges and grasses | Yes | No | **Not expected to occur.** The BSA does not contain suitable habitat to support this species. |
| *Athene cunicularia* | burrowing owl | SSC, BCC, WRCMSHCP: Covered (c), Season of Concern: burrowing sites and some wintering sites | Habitats: open, dry, flat ground or low rolling hills with sparse vegetation and available burrows<br>Characteristics: dig their own burrows in the soft banks of irrigation canals and ditches | Yes | No | **Not expected to occur.** The BSA does not contain suitable habitat to support this species. |
| *Eremophila alpestris actia* | California horned lark | WL, WRCMSHCP: Covered | Habitats: grasslands along the coast and deserts near sea level to alpine dwarf-shrub habitat above treeline<br>Characteristics: birds forage on the ground in either bare areas | Yes | No | **Not expected to occur.** The BSA does not contain suitable habitat to support this species. |
| *Campylorhynchus brunneicapillus sandiegensis* | coastal cactus wren (=San Diego cactus wren) | BCC, WRCMSHCP: Covered | Habitats: coastal sage scrub plant community in which cacti are prominent<br>Characteristics: usually absent from areas where only low, sprawling cacti grow | Yes | No | **Not expected to occur.** The BSA does not contain suitable habitat to support this species. |
| *Setophaga petechia (=Dendroica petechia)* | yellow warbler | SSC, BCC, WRCMSHCP: Covered | Habitats: deciduous trees of the riparian woodland from coastal desert woodlands to the Sierra Nevada – willows (Salix sp.), cottonwoods (Populus sp.), aspens (Populus sp.), California sycamores (Platanus racemosa), and alders (Alnus sp.)<br>Characteristics: nests are deep cups, placed in an upright fork in a deciduous sapling or shrub, typically 2 to 16 feet high | Yes | No | **Not expected to occur.** The BSA does not contain suitable habitat to support this species. |

| *Scientific Name (=Synonym)* | Common Name (=Synonym) | Status | General Habitat Descriptions in California | The BSA: | | Potential For Occurrence in the BSA |
|---|---|---|---|---|---|---|
| | | | | Located Within Species' Distribution and/or Elevation Range (if known) | Contains Suitable Foraging, Roosting, and/or Breeding Habitats | |
| *Icteria virens* | yellow-breasted chat | SSC, WRCMSHCP: Covered, | Habitats: dense riparian thickets of willows, vines, and brush associated with streams and other wetland habitats<br>Characteristics: nest is an open cup placed in dense shrubs or thickets within 3 to 8 feet above ground along a stream or river | Yes | No | **Not expected to occur.** The BSA does not contain suitable habitat to support this species. |
| *Aimophila ruficeps canescens* | southern California rufous-crowned sparrow | WL, WRCMSHCP: Covered | Habitats: dry, steep sloping land and hillsides with a moderate density of low, scattered shrubs, coastal sage scrub, interspersed with grasses and forbs and occasional rock outcrops for song perches<br>Characteristics: nests are placed in small depressions on the ground | Yes | No | **Not expected to occur.** The BSA does not contain suitable habitat to support this species. |
| *Artemisiospiza belli belli (=Amphispiza belli belli)* | Bell's sage sparrow | WL, BCC, WRCMSHCP: Covered | Habitats: dry chaparral and coastal sage scrub along the coastal lowlands, inland valleys, and in the lower foothills of local mountains<br>Characteristics: found in big sagebrush at higher elevations in southern mountains | Yes | No | **Not expected to occur.** The BSA does not contain suitable habitat to support this species. |
| *Spinus lawrencei* | Lawrence's goldfinch | BCC | Habitats: oak woodland, chaparral, riparian woodland, valley foothill hardwood-conifer, pinyon-juniper woodlands, palm oasis, usually near water, open woodlands of arid and semiarid foothills and valleys<br>Characteristics: nests are in evergreen oaks, conifers, or deciduous trees | Yes | No | **Not expected to occur.** The BSA does not contain suitable habitat to support this species. |
| **Sensitive Mammals** | | | | | | |
| *Chaetodipus fallax fallax* | northwestern San Diego pocket mouse | SSC, WRCMSHCP: Covered | Habitats: open, sandy areas of both the Upper and Lower Sonoran life-zones of southwestern California and northern Baja California<br>Characteristics: grassland and open sage scrub vegetation with sandy-loam to loam soils | Yes | No | **Not expected to occur**. The BSA does not contain suitable habitat to support this species. |
| *Lepus californicus bennettii* | San Diego black-tailed jackrabbit | Special Animals List, WRCMSHCP: Covered | Habitats: open areas or semi-open country, typically in grasslands, agricultural fields or sparse coastal scrub, in arid regions supporting shortgrass<br>Characteristics: not found in high mountain forests | Yes | No | **Not expected to occur**. The BSA does not contain suitable habitat to support this species. |
| *Eumops perotis californicus* | western mastiff bat | SSC, WBWG:H, WRCMSHCP: Covered | Habitats: low-lying desert areas of southern California, desert riparian, desert wash, desert scrub, desert succulent shrub, alkali desert scrub, palm oasis, conifer and deciduous woodlands, coastal scrub, annual and perennial grassslands, chaparral, urban. Roosts in crevices in cliff faces, high buildings, trees, and tunnels<br>Characteristics: bats often are found in large groups | Yes | Yes | **Low potential to occur.** This species may occasionally utilize urban structures for roosts, which are present in the BSA. However, these conditions are not optimal as this species is significantly more likely to occur in areas of desert riparian, desert wash, desert scrub, desert succulent shrub, alkali desert scrub, palm oasis, conifer and deciduous woodlands, coastal scrub, annual and perennial grassslands, chaparral; all of which are absent from the BSA. |
| *Nyctinomops femorosaccus* | pocketed free-tailed bat | SSC | Habitats: pinyon-juniper woodlands, desert scrub, desert succulent shrub, desert riparian, desert wash, alkali desert scrub, Joshua tree, chaparral, and palm oasis<br>Characteristics: prefer rock crevices in cliffs as roosting sites | Yes | No | **Not expected to occur.** The BSA does not contain suitable habitat to support this species. |
| *Lasiurus xanthinus* | western yellow bat | SSC, WBWG:H | Habitats: valley foothill riparian, desert riparian, desert wash, and palm oasis habitats. This species almost exclusively roosts in palms.<br>Characteristics: occurs year-round in California | Yes | No | **Not expected to occur.** The BSA does not contain suitable habitat to support this species. |
| *Antrozous pallidus* | pallid bat | SSC, WBWG:H | Habitats: variety of habitats is occupied by pallid bats, including deserts, grasslands, shrublands, woodlands, and forests from sea level up through mixed conifer forests<br>Characteristics: night roosts may be in more open sites, such as porches and open buildings | Yes | Yes | **Low potential to occur.** This species may occasionally utilize urban structures for roosts, which are present in the BSA. However, these conditions are not optimal as this species is significantly more likely to occur in areas of deserts, grasslands, shrublands, woodlands, and mixed conifer forests; all of which are absent from the BSA. |
| *Myotis yumanensis* | Yuma myotis (=Yuma bat) | Special Animals List | Habitats: open forests and woodlands<br>Characteristics: forage around marshes on moist shorelines | Yes | No | **Not expected to occur.** The BSA does not contain suitable habitat to support this species. |

***Legend and Notes***

***Federal Endangered Species Act (ESA) Listing Codes: the ESA is administered by the USFWS and NMFS. The USFWS has primary responsibility for terrestrial and freshwater organisms, while the responsibilities of NMFS are mainly marine wildlife such as whales and anadromous fish such as salmon. For the purposes of the ESA, Congress defined species to include subspecies, varieties, and, for vertebrates, distinct population segments. The official federal listing of Endangered and Threatened animals is published in 50 CFR § 17.11.***

- **FE** = federally listed as endangered: any species of plant or animal that is in danger of extinction throughout all or a significant portion of their range.
- **FT** = federally listed as threatened: any species of plant or animal that is considered likely to become endangered throughout all or a significant portion of its range within the foreseeable future.
- **FC** = federal candidate for listing: candidate species are plants and animals for which the USFWS has sufficient information on their biological status and threats to propose them for listing as endangered or threatened under the ESA, but for which development of a proposed listing regulation is precluded by higher priority listing actions to address species in greater need. A proposed regulation has not yet been published in the Federal Register for these species.

***California Endangered Species Act (CESA) Listing Codes: the CESA is administered by CDFW. The official listing of Animals of California Declared To Be Endangered or Threatened is contained in the California Code of Regulations, Title 14, § 670.5. Species and subspecies of California native animals are declared to be endangered or threatened as defined by §§ 2062 and 2067 of the Fish and Game Code.***

- **SE** = state-listed as endangered: "endangered species" means a native species or subspecies of a bird, mammal, fish, amphibian, reptile, or plant which is in serious danger of becoming extinct throughout all, or a significant portion, of its range due to one or more causes, including loss of habitat, change in habitat, overexploitation, predation, competition, or disease (Fish and Game Code § 2062).
- **ST** = state-listed as threatened: "threatened species" means a native species or subspecies of a bird, mammal, fish, amphibian, reptile, or plant that, although not presently threatened with extinction, is likely to become an endangered species in the foreseeable future in the absence of the special protection and management efforts (Fish and Game Code § 2067).
- **SCE** = state candidate for listing as endangered: a native species or subspecies of a bird, mammal, fish, amphibian, reptile, or plant that the Fish and Game Commission has formally noticed published in the California Regulatory Notice Register as being under review by CDFW for addition to the list of endangered species, or a species for which the Fish and Game Commission has published a notice of proposed regulation to add the species to the list (Fish and Game Code § 2068).

***California Department of Fish and Wildlife (CDFW) Designations:***

For some wildlife species, the CNDDB is only concerned with specific portions of the life history, such as roosts, rookeries, or nesting colonies. For many species of birds, the primary emphasis is on the breeding population in California. For some species which do not breed in California but winter here, emphasis is on wintering range. The SSC designation thus may include a comment regarding the specific protection provided such as nesting or wintering

- **SSC = species of special concern**: a species of special concern is a species, subspecies, or distinct population of an animal (fish, amphibian, reptile, bird and mammal) native to California that currently satisfies one or more of the following (not necessarily mutually exclusive) criteria: is extirpated from the state or, in the case of birds, in its primary seasonal or breeding role; is listed as federally-, but not state-, threatened or endangered; meets the state definition of threatened or endangered, but has not formally been listed; is experiencing, or formerly experienced, serious (noncyclical) population declines or range retractions (not reversed) that, if continued or resumed, could qualify it for state threatened or endangered status; has naturally small populations exhibiting high susceptibility to risk from any factor(s), that if realized, could lead to declines that would qualify it for state threatened or endangered status.
- **Fully protected:** fully protected animal species may not be taken or possessed at any time and no licenses or permits may be issued for their take except for collecting these species for necessary scientific research and relocation of the bird species for the protection of livestock. Lists were created for fish (Fish and Game Code § 5515), amphibians and reptiles (Fish and Game Code § 5050), birds (Fish and Game Code § 3511) and mammals (Fish and Game Code § 4700).
- **WL = watch list**: consisting of taxa that were previously SSCs, but do not meet SSC criteria. These are species for which there is concern and a need for additional information to clarify status
- **Special Animals List**: The Special Animals List contains taxa that are actively inventoried, tracked, and mapped by the CNDDB, as well as taxa for which mapped data may not yet be incorporated into CNDDB user products

***United States Fish and Wildlife Service (USFWS) Designations:***

- **BCC = bird of conservation concer**n: a bird of conservation concern is listed in the USFWS' 2008 Birds of Conservation Concern report. The report identifies species, subspecies, and populations of all migratory and non-migratory bird species (beyond those already designated as federally threatened or endangered) that, without additional conservation actions, are likely to become candidates for listing under the ESA. While all of the bird species included in the report is priorities for conservation action, the list makes no finding with regard to whether they warrant consideration for ESA listing.

| *Scientific Name (=Synonym)* | Common Name (=Synonym) | Status | General Habitat Descriptions in California | The BSA: | | Potential For Occurrence in the BSA |
|---|---|---|---|---|---|---|
| | | | | Located Within Species' Distribution and/or Elevation Range (if known) | Contains Suitable Foraging, Roosting, and/or Breeding Habitats | |

***Western Riverside County Multiple Species Habitat Conservation Plan (WRCMSHCP):***

The WRCMSHCP provides regulatory coverage for a total of 146 individual species. Under the WRCMSHCP, regulatory coverage means that future incidental take of these species would be permitted for new development and that no additional mitigation under the CESA or ESA would be required over the mitigation provided for by the plan. The following species are identified as "Covered Species" by the WRCMSHCP and the Implementing Agreement. The WRCMSHCP permits would provide take authorization for Covered Species.

- **WRCMSHCP: Covered**: wildlife species covered under the WRCMSHCP. No further surveys are required.
- **WRCMSHCP: Covered (a)**: surveys may be required for these species as part of wetlands mapping (Section 6.1.2 of WRCMSHCP).
- **WRCMSHCP: Covered (c)**: surveys may be required for this species within locations shown on survey maps (Section 6.3.2 of WRCMSHCP).

***Western Bat Working Group (WBWG) Designations:***

The WBWG is composed of agencies, organizations, and individuals interested in bat research, management, and conservation from 13 western states and provinces. Species are ranked as High, Medium, or Low Priority in each of 10 regions in western North America.

- **H = High Priority:** These species are considered the highest priority for funding, planning, and conservation actions, Information about status and threats to most species could result in effective conservation actions being implemented should a commitment to management exist. These species are imperiled or are at high risk of imperilment.
- **M = Medium Priority:** These species warrant closer evaluation, more research, and conservation actions of both the species and possible threats. A lack of meaningful information is a major obstacle in adequately assessing these species' status and should be considered a threat.

***Resources***

- *Check-List of North American Birds, 7th edition (AOU, 1998);*
- *(AOU website );*
- *Amphibian species accounts (Amphibiaweb website );*
- *Terrestrial Mammal Species of Special Concern in California (Bolster, 1998);*
- *Mammals of North America (Bowers et al., 2004);*
- *Special Status Animals in California, Including BLM Designated Sensitive Species (BLM, 2010);*
- *Life History Accounts and Range Maps (CDFG, 1988a and updates; CDFG, 1988b and updates; CDFG, 1988c and updates);*
- *The Status of Rare, Threatened, and Endangered Plants and Animals of California, 2000–2004 (CDFG, 2005);*
- *Atlas of the Biodiversity of California (CDFG, 2003);*
- *RareFind, CDFW, California Natural Diversity Database (CNDDB );*
- *State & Federally Listed Endangered & Threatened Animals of California (CDFW, 2016);*
- *Special Animals List (CDFG, 2016);*
- *CDFW's California Wildlife Habitat Relationships: Online Life History Accounts and Range Maps ;*
- *California Herps website ;*
- *California Partners in Flight website ;*
- *CNAH website ;*
- *AOU supplement (Chesser et al., 2015);*
- *A Field Guide to Hawks of North America, Second Edition (Clark and Wheeler, 2001);*
- *Mammals of California (Eder, 2005);*
- *Fairy Shrimps of California's Puddles, Pools, and Playas (Eriksen and Belk, 1999);*
- *Atlas of Breeding Birds, Orange County, California (Gallagher, 1997);*
- *The Fauna and Flora of the El Segudo*

- *Amphibian and Reptile Species of Special Concern in California (Jennings and Hayes, 1994);*
- *Mammals of North America (Kays and Wilson, 2002);*
- *Inland Fishes of Californica (Moyle, 2002);*
- *Fish Species of Special Concern in California, Third Edition (Moyle et al., 2015);*
- *Reference Atlas to the Birds of North America (National Geographic Society, 2003);*
- *Complete Birds of North America (National Geographic Society, 2006);*
- *Field Guide to the Birds of North America, 4th Ed (National Geographic Society, 2002);*
- *(NatureServe Explorer website );*
- *Shorebirds of North America. The Photographic Guide (Paulson, 2005);*
- *A Field Guide to Mammals of North America North of Mexico. Fourth Edition (Reid, 2006);*
- *A Natural History of California (Schoenherr, 1992);*
- *California Bird Species of Special Concern: A ranked assessment of species, subspecies, and distinct populations of birds of immediate conservation concern in California (Shuford and Gardali, 2008);*
- *National Audubon Society, The Sibley Guide to Birds (Sibley, 2000);*
- *A Field Guide to Western Reptiles and Amphibians, Third Edition (Stebbins, 2003);*
- *(The Birds of North America Online website );*
- *Life on the Edge: A Guide to California's Endangered Natural Resources. Wildlife (Thelander et al., 1994);*
- *(California Fish Website );*
- *United States Department of Agriculture (USDA) Forest Service, Pacific Southwest Region, Sensitive Animal Species by Forest (USFS, 2013);*
- *Mammalian Species of Special Concern in California (Williams, 1986);*
- *Mammal Species of the World (Wilson and Reeder, 2005);*
- *The Smithsonian Book of North American Mammals (Wilson and Ruff, 1999);*
- *The Final Environmental Impact Report and Statement (Final EIR/S) for the West Mojave Plan (BLM, 2005);*
- *Proposed Northern & Eastern Colorado Desert Coordinated Management Plan (NECO) (BLM and CDFG, 2002);*
- *UltraSystems in-house records.*
- *NOAA Fisheries (www.fisheries.noaa.gov)*
- *Audobon.org/field-guide*
- *Animal Diversity Web (animaldiversity.org)*
- *sibr.com/Mammals*
- *co.monterey.ca.us (Terrestrial Mammal Species of Special Concern in California, Bolster. B.C., Ed., 1998)*

***Notes:***

- ***Yes** = the BSA is located within the wildlife species' known distribution, elevation range, and/or the BSA contains suitable habitats or conditions to support the species. The wildlife species has a potential to occur within the BSA. Further evaluation is needed.*
- ***No** = the BSA is located outside the wildlife species' known distribution, elevation range, and/or the BSA lacks suitable habitats or conditions to support the species. It is highly unlikely for the wildlife species to have a potential to occur within the BSA. No further evaluation is needed.*
- *The BSA encompasses developed areas including Centennial High School facilities, residential and commercial developments, and ornamental vegetation for landscaping purposes.*
- ***DPS = distinct population segment** : A DPS, or a distinct population segment, is a vertebrate population or group of populations that is discrete from other populations of the species and significant in relation to the entire species. The ESA provides for listing species, subspecies, or distinct population segments of vertebrate species.*
- *The BSA encompasses developed areas including Centennial High School facilities, residential and commercial developments, and ornamental vegetation for landscaping purposes.*

- ***Elevation** = the BSA contains elevations ranging from approximately 781-808 feet amsl.*

# APPENDIX D1

# CULTURAL RESOURCES ASSESSMENT

# PHASE I
# CULTURAL RESOURCES INVENTORY

**FOR THE**

# CENTENNIAL HIGH SCHOOL AQUATICS CENTER
# CORONA-NORCO UNIFIED SCHOOL DISTRICT
# City of Corona, Riverside County, California

***Prepared for:***

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**August 2023**

Key Words: City of Corona; Riverside County; *Corona South, Calif.* USGS Quadrangle; Gabrielino/Tongva Tribe; Luiseño/Payomkawichum Tribe; Negative Findings

# PHASE I
# CULTURAL RESOURCES INVENTORY

**FOR THE**

# CENTENNIAL HIGH SCHOOL AQUATICS CENTER
# CORONA-NORCO UNIFIED SCHOOL DISTRICT
## City of Corona, Riverside County, California


Jacquelyn Roberts, Construction Director – Facilities Division
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## August 9, 2023

Prepared by: _____ Date: August 9 19, 2023

Stephen O'Neil, M.A., RPA
UltraSystems Environmental Inc.

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# 1.0 INTRODUCTION

## 1.1 Overview

UltraSystems Environmental Inc. ("UltraSystems) conducted a Phase I cultural resources survey on behalf of Corona-Norco Unified School District (CNUSD), Facilities Division, in support of an Initial Study/Mitigated Negative Declaration document for their proposed new Centennial High School Aquatics Center Project (hereinafter referred to as "Project") in Corona, California.

The proposed Project includes the demolition of the existing east-west oriented pool and facilities and the construction of a north-south oriented pool and aquatics center. The new swimming pool will measure 50 meters long by 25 yards wide with a maximum depth of 8.5 feet. The construction would also include covered bleachers, offices, locker rooms, concession stands, restrooms, stadium lighting, and a 4-lane student drop-off area. The project boundary covers an area of approximately 2.6 acres.

The Project area is specifically located at 1820 Rimpau Avenue in the central portion of the city of Corona, Riverside County, California (**Attachment A, Figure 1** and **Figure 2**). The high school campus is bound by Fullerton Avenue to the west and Rimpau Avenue to the east. This may be seen on the *Corona South, Calif.*, USGS topographical quadrangle, Range 06 West, Township 04 South, in the SW ¼ of the SE ¼ of Section 31 (**Attachment A, Figure 3**). The project area is located in the north-central section of the Centennial High School campus. The project area is surrounded to the north by a mobile home park, to the east by a parking lot for the high school, to the south by school buildings and to the west by the high school's football field. This is shown on **Attachment A, Figure 2** and **Figure 3,** and the Project area is depicted with a 0.5-mile buffer zone.

Area of Potential Effect

The APE for the undertaking encompasses the Project boundary, which includes the maximum extent of ground disturbance required by the Project design (see Attachment A, Figure 2).

### 1.1.1 Methods

A cultural resources records search was requested May 3, 2023, from the Eastern Information Center (EIC) located at the University of California, Riverside, which is the local California Historic Resources Information System (CHRIS) facility. The records search was conducted to identify previously recorded cultural resources (prehistoric and historic archaeological sites/isolates, historic buildings, structures, objects, or districts) within the Project area and to determine if previous cultural resource surveys were conducted. The Project site and a 0.5-mile buffer zone are included in the search radius for archival studies. These records included a review of previously recorded prehistoric and historic archaeological resources and a review of listed cultural resource survey reports within that same geographical area.

Stephen O'Neil, M.A., RPA, who served as the Principal Investigator and the lead author of this report, qualifies as Principal Prehistoric Archaeologist and Historic Archaeologist per United States Secretary of the Interior Standards (see **Attachment B**), contacted the Native American Heritage Commission (NAHC) and requested a Sacred Lands File (SLF) search as well as a list of interested local Native American tribal organizations and potentially affiliated Native American individuals. Outreach to the identified parties was contacted requesting cultural resource information. Megan B. Doukakis, M.A. (see **Attachment B**), also prepared portions of this report, including the National Historic Register of Historic Places review (**Section 4.4** and **Attachment E**). The cultural resources

record search was conducted on August 2, 2023 by EIC staff member Eulices Lopez, Administrative Coordinator Assistant. An intensive pedestrian cultural resources survey was conducted by Mr. O'Neil on July 12, 2023.

### 1.1.2 Disposition of Data

This report will be filed with the Eastern Information Center, University of California, Riverside; the CNUSD; and UltraSystems Environmental, Inc., Irvine, California. All field notes and other documentation related to the study will remain on file at the Irvine office of UEI.

# 2.0 SETTINGS

## 2.1 Natural Setting

The project site is located in the City of Corona in Riverside County. Corona is bordered by the cities of Norco to the north, Riverside to the east, and unincorporated Riverside County lands to the southeast, south and west, all within Riverside County. The project site is at an elevation of approximately 775 feet, sloping to the northeast toward Temescal Wash. According to the United States Census Bureau (2023) the city had a population of 159,567 in 2022; the City of Corona has an area of approximately 39.96 square miles. The city is served by Interstate 15 and State Route 91 (Riverside Freeway). The Santa Ana River flows along the west side of the town and Temescal Creek runs east/west through the town to meet with the Santa Ana River.

The climate of this mid-Santa Ana Valley region is semi-arid, with large seasonal extremes of temperature, precipitation, and wind patterns due to the funnel effect created by California's inland valleys to the north. The average summer high temperature is 93.5 degrees Fahrenheit (° F) with an average winter low temperature if 42.3° F. Annual rainfall averages 11.7 inches, falling mostly in the winter months. Frost may occur in December and January, but little or no snow. The Santa Ana Mountains to the west create a rain shadow effect, so limited precipitation reaches the floor of the Santa Ana Valley. Most precipitation there occurs in the winter, with an average annual rainfall of 11.7 inches. A number of washes empty into the valley from the surrounding mountains. Runoff from any of the seasonally active streams within these washes flows into Temescal Creek, from there to the Santa Ana River, and then onto the Pacific Ocean. Historically, the indigenous Tongva people situated their permanent settlements on bluffs overlooking Temescal Creek and the Santa Ana River, with access to these waters.

### 2.1.1 Flora/Fauna

Prior to agricultural use and suburban development, the Centennial High School project area was probably a mix of grassland and annuals situated along the alluvial fan of the valley, with a seasonal riparian community. The adjacent foothills are within the Coastal Sage Scrub plant community as described by the Museum of Riverside (Riverside Museum 2021). Sagebrush, white sage, black sage, buckwheat, lemonade-berry, prickly pear, and yucca are some of the commonly found plants in areas of coastal sage scrub, as well as trees including oak species and sycamore in the adjacent valleys. Rabbits, coyote, deer, ground squirrel, kangaroo rat, wood rat, and California mouse are some common mammals, while the western fence lizard and western rattlesnake are reptiles common to this biotic community.

Aboriginal peoples likely used controlled burning for management of the landscape (King 1993:296-298; Timbrook et al 1993:129-134), and so native (now mostly extirpated) grasses may have been dominant in the valleys or more abundant in oak-savanna environments, and the lower hill slopes may have supported a sage scrub-chaparral community (Bean and Lawton 1993:37-42). Animal species during recent aboriginal times included those known to be present today, as well as such large mammals as mountain lion, black bear, grizzly bear, and antelope.

### 2.1.2 Geology

The Centennial High School project site is seen on the Geologic Map of the Santa Ana Quadrangle (Morton 2004) where the site is underlain by young alluvial fan deposits consisting of gravel (Qyf1g) (Morton and Miller, 2006). This deposit consists of sand and silt of valleys and floodplains, and dates

to the Holocene (11,650 years before present [ybp] to the present). No bedrock outcrops are present. During the field survey no pebbles or large rocks were observed, and there was no material suitable for tool production by the indigenous inhabitants.

## 2.2 Cultural Setting

### 2.2.1 Prehistoric Context

The term "prehistoric period" refers to the period of pre-contact Native California lifeways and traditions prior to the arrival of Euroamericans.

It is widely acknowledged that human occupation in the Americas began only about 13,000 or more years ago (all dates presented here are calibrated radiocarbon ages or calendar dates). However, recent discoveries in areas outside of California have pushed that age back several thousand years more to about 15,000 or even perhaps up to nearly 20,000 years ago (Smith and Barker, 2017).

To describe and understand the cultural processes that occurred during prehistory, archaeologists have routinely developed a number of chronological frameworks to correlate technological and cultural changes recognized in the archaeological record. These summaries bracket certain time spans into distinct archaeological horizons, traditions, complexes, and phases.

There are many such models even for the various sub-regions of Southern California (cf. Grayson, 2011; Warren, 1984; Jones and Klar, 2007). Given the variety of environments and the mosaic of diverse cultures within California, prehistory is typically divided into specific sub-regions that include: the Interior of Southeastern California and the Mojave Desert (Warren and Crabtree 1986) and San Diego and the Colorado Desert (Meighan, 1954; True 1958, 1970).

Many archaeologists tend to follow the regional syntheses adapted from a scheme developed by William J. Wallace in 1955 and modified by others (Wallace, 1978; Warren, 1968; Chartkoff and Chartkoff, 1984; Moratto, 1984; Sutton et al., 2007 and others). Although the beginning and ending dates vary, the general framework of prehistory in the area consists of the following four periods:

- **Paleoindian and Lake Mojave Periods** [Pleistocene and Early Holocene] (ca. 11000 B.C. to 6000 B.C.). This time period is characterized by highly mobile foraging strategies and a broad spectrum of subsistence pursuits. These earliest expressions of aboriginal occupation in America were marked by the use of large dart or spear points (Fluted and Concave Base Points) that are an element of the Western Clovis expression. Following the earliest portions of this time span there was a change in climate coincident with the retreat of the glaciers. Large bodies of water existed and lakeside aboriginal adaptations were common. Large stemmed points (Western Stemmed – Lake Mojave and Silver Lake) accompanied by a wide variety of formalized stone tools were employed with the aid of atlatls and are representative of an adaptation that was in part focused on lacustrine environments.

- **Millingstone Horizon** [Middle Holocene] (ca. 6000 B.C. to A.D. 1000), during which mobile hunter-gatherers became more sedentary and plant foods and small game animals came to the forefront of indigenous subsistence strategies. This prehistoric cultural expression is often characterized by a large number of millingstones, with especially well-made, deep-basin metates and formalized, portable handstones (manos). Additionally, the cultural assemblage is dominated by an abundance of scraping tools (including scraper planes and

pounding/pulping implements), and only a slight representation of dart tipped - projectile points (Pinto, Elko and Gypsum types).

- **Late Prehistoric Period** (ca. A.D. 1000 to 1500), during which a more complex social organization, more diversified subsistence base and an extensive use of the bow and arrow is evidenced. Small, light arrow points (Rose Spring Series), expedient millingstones and, later, pottery mark this period along with the full development of regional Native cultures and tribal territories;

- **Protohistoric Period** (ca. A.D. 1500 to 1700s) ushered in long-distance contacts with Europeans, and thereby led to the Historic Period (ca. A.D. 1700 to contemporary times). Small arrow points are recognized as Desert Side-notched and Cottonwood forms and are a hallmark of this time period.

### 2.2.2 Ethnohistoric Context

The project lies within the territory of the Gabrielino (Tongva) ethnolinguistic group (Bean and Smith, 1978:538), who speak a language classified as a member of the Uto-Aztecan language family. This language is further affiliated as an element of the Northern Takic Branch of that linguistic group (Golla, 2011).

The Gabrielino, with the Chumash, were considered the most populous, wealthiest, and therefore most powerful ethnic nationalities in aboriginal Southern California (Bean and Smith, 1978:538). Unfortunately, most Gabrielino cultural practices had declined before systematic ethnographic studies were instituted. Today, the leading sources on Gabrielino culture are Bean and Smith (1978), Johnston (1962), and McCawley (1996).

According to recent research, Takic groups were not the first inhabitants of the region. Archeologists suggest that a Takic in-migration may have occurred as early as 2,000 years ago, replacing or intermarrying with a more ancient indigenous people represented by speakers of a Hokan language (Howard and Raab, 1993; Porcasi, 1998). By the time of European contact, the Gabrielino territory included the southern Channel Islands and the Los Angeles Basin. Their territory reached east into the present-day San Bernardino-Riverside area and south to the San Joaquin Hills in central Orange County.

Different groups of Gabrielino adopted several subsistence strategies, based on gathering, hunting, and fishing. Because of the similarities to other Southern California tribes in economic activities, inland Gabrielino groups' industrial arts, exemplified by basket weaving, exhibited an affinity with those of their neighbors (Kroeber, 1925). Coastal Gabrielino material culture, on the other hand, reflected an elaborately developed artisanship most recognized through the medium of steatite, which was rivaled by few other groups in Southern California.

The intricacies of Gabrielino social organization are not well known. There appeared to have been at least three hierarchically ordered social classes, topped with an elite consisting of the chiefs, their immediate families, and other ceremonial specialists (Bean and Smith, 1978). Clans owned land, and property boundaries were marked by the clan's personalized symbol. Villages were politically autonomous, composed of non-localized lineages, each with its own leader. The dominant lineage's leader was usually the village chief, whose office was generally hereditary through the male line. Occasionally several villages were allied under the leadership of a single chief. The villages frequently

engaged in warfare against one another, resulting in what some consider to be a state of constant enmity between coastal and inland groups.

The Corona and Norco region was within the eastern Tongva culture area. The central Tongva land was the Los Angeles Basin; however, it extended east to include portions of the San Bernardino Valley. In the San Bernardino Valley, the Tongva's neighbors were the Serrano on the north and the Cahuilla farther east. Away from the Santa Ana River this area was not well watered. Therefore, this portion of the territory was not as densely populated as the coastal territory.

The village of *Jurupa*, also spelled *Huruuvnga*, was somewhat west of Riverside (McCawley, 1996:49). Its proximity to Fontana is attested by Native consultants who described a "long range of hills at *Jurupa* – west of Riverside," termed S*hokaava* by José Zalvidea, the Tongva consultant to researcher J.P. Harrington (McCawley, 1996:50). These *Shokaava* hills to the west of Riverside likely correspond to the Jurupa Hills lying 1.25 miles south of the project site. In the late Mission Period or just thereafter, much of the region was populated by the Serrano (Bean and Smith, 1978), who migrated into the area following the removal of the Gabrielino to Mission San Gabriel.

The first Franciscan establishment in Gabrielino territory and the broader region was Mission San Gabriel, founded in A.D. 1772. Priests from the mission proselytized the Tongva throughout the Los Angeles Basin. As early as 1542, however, the Gabrielino were in peripheral contact with the Spanish even during the historic expedition of Juan Rodríguez Cabrillo. However, it was not until 1769 that the Spaniards took steps to colonize the territory of aboriginal Californians. Within a few decades, most of the Gabrielino were incorporated into Mission San Gabriel and other missions in Southern California (Engelhardt, 1931). Due to introduced diseases, dietary deficiencies, and forceful *reducción* (removal of non-agrarian Native populations to the mission compound), Gabrielino population dwindled rapidly from these impacts. By 1900, the Gabrielino community had almost ceased to exist as a culturally identifiable group. In the late 20th century, however, a renaissance of Native American activism and cultural revitalization of Gabrielino descendants took place. Among the results of this movement has been a return to a traditional name for the tribe, the Tongva, which is employed by several of the bands and organizations representing tribal members. Many of the Tongva bands focus on maintaining and teaching traditional knowledge, with special focus on language, place names and natural resources.

The project region was also inhabited by a confluence of three other North Uto-Aztecan language speakers related linguistically and cultural to the Tongva (Golla 2011; Kroeber 1925; Mithun 1999) – the Serrano tribe (the "mountain people" in Spanish) to the north and the Luiseno (Payomkawichum, or Western People) tribe to the east and southeast. The third group, the Cahuilla, were located farther east. The nearby Serrano inhabited the San Gabriel Mountains to the west and the San Bernardino Mountains directly north, and possibly the northern edge of San Bernardino just to the north of Riverside, including the upper reaches of the Santa Ana River. The nearest portion of Luiseno territory to the project area as the San Jacinto Basin to the east, likely through much of the Temescal Mountains and along Temescal Creek to the southeast and east of Corona. The Cahuilla inhabited the San Jacinto Mountains on the east wedge of the Greater San Jacinto Basin and the San Gorgonio Pass region east of Riverside and perhaps into the northeast portion of the San Jacinto Valley. The actual territorial "boundary" between these four peoples in the last 18th century is uncertain and was soon influenced by the movement of people in response to the Franciscan missions, depopulation resulting from European diseases and the influence of Spanish and then Mexican ranchos. Prior to Euro-American influences there was likely a mix of populations in villages on their borders along with some competition of resources. There was also ceremonial interaction

between clans of the same tribe and between the tribes themselves (Strong 1929) which would have fostered cooperation among these groups as well.

### 2.2.3 Local Settlements

There are a number of Tongva village sites located around the project area. *Paxavxanga* was to the south along the Temescal Creek several miles south of Corona (Kroeber 1909: 144 and 1925:Plate 57; McCawley 1996:47). Kroeber suggested that this village, at what is now known as Glen Ivey Hot Springs, may have had a mixed population of Tongva and Luiseño; analysis of the sacramental registers of missions San Gabriel and San Juan Capistrano support this idea (King 2018). A possible Gabrielino settlement across the Santa Ana River from lower Corona (eight miles west of Home Gardens) named *Shiishonga* was recorded by J.P. Harrington as a place where a "devil" lived in legendary times (McCawley 1996:49). A possible Tongva village named *Wapijanga* is shown on a map in McCawley (1996:Map 7) to the north on the west side of the Santa Ana River approximately parallel to the city of Riverside, a settlement about 6.5 miles to the north of the project site. There is also the well-known Gabrielino village of *Horuuvnga* (Jurupa) also on the west side of the Santa Ana River and to the north of Home Gardens, probably located in the south Fontana area, that may have dominated the region.

### 2.2.4 Historic Context

#### 2.2.4.1 Spanish / Mexican Era

The first Europeans to explore the area that would become the state of California were members of the A.D. 1542 expedition of Juan Rodriguez Cabrillo. Cabrillo sailed along the coast of California, but did not explore the interior. Europeans did not attempt inland exploration until 1769, when Lieutenant Colonel Gaspar de Portolá led an overland expedition from San Diego to Monterey and back. Portolá's expedition marked the beginning of the sustained effort by the Spanish government to colonize Alta California, apparently under perceived threat to Spanish holdings in California from the presence of Russian settlements in Alaska (Beck and Williams, 1972). In August 1769 this expedition of 62 people passed through *Acjachemen* (Juaneño) and Tongva lands but west of the current study area (Brown, 2001).

Lt. Colonel Juan Bautista de Anza and company were the first Europeans to reach Riverside County region with two expeditions through the area in 1774 and 1775. These expeditions originated in Sonora and traversed southwestern Arizona and Southern California bringing colonists to the new territory for the first time. Both expeditions crossed through the San Jacinto Valley and the mountains in the Riverside town area and the Santa Ana River just north of the project area.

Development of the Franciscan Order's chain of missions, beginning with the establishment of San Diego de Alcala in 1769, led ultimately to substantial Tongva depopulation as a result of imported diseases, human concentration at Mission San Gabriel, and the replacement of a hunting-gathering economy by European farming and especially livestock herding land use practices.

Mexico rebelled against Spain in 1810, and by 1821, Mexico, including California, achieved independence. The Mexican Republic began to grant private land to citizens to encourage emigration to California. Huge land grant ranchos took up large sections of land in California. Ranchos surrounded the mission lands in all directions. The mission lands had been held in trust for Native peoples by the Franciscan missionaries for eventual redistribution. Following secularization of the

missions under Mexican rule in 1832, however, former Mission lands were opened up for settlement by Mexican colonists.

In November 1810, there was an attack against Spanish hegemony as represented by Mission San Gabriel by "some 1,000 Indians, mostly Serrano with their allies from the desert rancherias such as Angoyaba (a Chemehuevi village) and a few daring Mojaves from the Colorado" (Mason 2004:46). The reason for the revolt was likely the result of the Spanish link to a rapidly dwindling local Native American population caused by disease and conversion. After several months of sporadic warfare, the Native communities were defeated, with men captured and sent to other missions and the families following. Two or three Cahuilla villages, allied to the Serrano through marriage ties, participated in the fighting and subsequent subjugation by the Spanish. Members of their clans were among those inhabitants of the San Bernardino Valley region and "even southwest of the San Gorgonio Pass [who] are included in the mass baptisms and marriages in 1811" (Mason 2004:47).

By 1819, several Spanish mission outposts, known as *assistencias*, were established in Gabrielino (or Serrano) territory at San Bernardino and San Jacinto (Luiseño lands) generating further contact and interaction between the western Cahuilla and the Europeans. Because this area is located inland, and on the eastern fringe of the Franciscan Order's mission system, interaction with Europeans was not as intense in the Cahuilla region as it was on the coast. By the 1820s, however, the Eastern Gabrielino were experiencing consistent contact with the ranchos of Mission San Gabriel in the Inland Empire region and from Spanish ranchos in the mid-stretch of the Santa Ana River with the Yorbas in the Santa Ana Canyon and later a little farther north along the Temescal and Pomona Creeks where they feed into the river. The local indigenous people who had not been brought to the mission establishments were frequently employed on these ranchos as vaqueros and field labor (O'Neil 2010).

By the 1830s, Mexican ranchos were located throughout Eastern Gabrielino and neighboring Serrano and Luiseño lands along the upper Santa Ana River, usually to the determent of the remaining indigenous peoples

### 2.2.5 American Era and Western Riverside County History

The Mexican-American War of 1846 saw the invasion of California from both land and sea. Following several skirmishes in the San Diego and Los Angeles areas, and the capture of the territorial capital in Monterey, the United States rule was firmly established. California became a United States territory in 1846, per the Treaty of Guadalupe Hidalgo that ended the Mexican-American War. Following the rapid influx of population to the north because of the Gold Rush of 1849, California was made a state in 1850. The economic and social order was slow to change in the southern portion of the state, however, and rancheros were left in control of their vast estates through the 1860s. Riverside (originally part of Los Angeles and San Diego counties) was a part of the "Cow Counties" and had little representation in the state legislature because of the sparse population. This allowed the predominantly Anglo population of the north to pass laws aimed at breaking up the ranches for settlement by Eastern farmers and, coupled with devastating droughts that crippled many livestock raisers, their dismemberment soon came (Cleland, 1951).

Just prior to the United States invasion of Alta California in 1846, the Mexican government granted several land tracts in the project region, including the 48,847-acre El Sobrante de San Jacinto, which encompasses what is now north Corona. Little development took place on these ranchos with cattle raising being the primary prevalent economic activity through the mid-19th century. Soon, however, with the break-up of the rancho holdings and ease of transportation with the coming of the railroads,

the grazing lands started to be converted to orchards and other agricultural uses by the Anglo easterners (Dumke 1944).

In 1871, the town of Riverside was founded on a portion of Juan Bandini's former ranch, followed in the next few years by the Arlington and the Santa Ana Colonies. These three communities eventually merged in 1875, and the City of Riverside was incorporated in 1883.

### 2.2.6 City of Corona

The city of Corona, originally named South Riverside, was founded in 1886, during a land boom that swept through much of southern California (Dumke 1944). Residents of South Riverside voted on July 13, 1896 to incorporate and change the name of the community to Corona. In Spanish, Corona means "crown," which honors of the City's circular Grand Boulevard (Corona Public Library, 2004). In the mid-1870s, the navel orange had been introduced in Riverside and its great success led to the rapid spread of citrus cultivation throughout southern California, and propelled both Riverside and Corona to the forefront of the thriving citrus industry. The early townspeople of Corona consisted of mostly English and Irish descendants. Mexican and Italian immigrants soon arrived in search of work in the citrus fields (Coronaca.gov, n.d.).

In September of 1913, the first Corona Road Race took place and was very popular with the community (Corona Public Library, 2004). However due to issues involving spectator and driver safety, racing noise disturbing the residents, and not being financially successful, the annual race ended in 1916 (Coronaca.gov, n.d.). In 1913, citrus covered 7,500 acres of the city (Corona Public Library, 2004). By 1916, the city had established itself as the "Lemon Capital of the World". As the success of the lemon industry grew, a By-Products Company was developed to deal with the lemons that were considered lower quality and were used to develop products beyond the fruit itself. These products included citric acid, sodium citrate, lemon juice, pectin, and lemon oil. In 1958, the company was merged with Sunkist and formed the Lemon Products Division for Sunkist Growers (Coronaca.gov, n.d.).

During the post-WWII era, agriculture gave way to suburban development as residential neighborhoods and light industry gradually spread over former farmlands (NETR Online, 2023: 1958, 1985). More urban growth occurred in the 1960 and 1970's. The Riverside Freeway (Highway 91) was constructed in 1961 and Interstate 15 was constructed by 1989 to the east of town (Corona Public Library, 2004).

### 2.2.7 Project Site Land Use History

Use of the project site during the early 20th century to present was determined using historic aerial photos and USGS topographic maps (NETROnline, 2023). The aerial photos are available from 1948, 1959, 1966, 1967 and through 1976 indicate that the project site and surrounding region was farm land with an orchard or row crops in the project parcel. Magnolia Avenue to the north is present and paved with Fullerton and Rimpau Avenues unpaved. By 1980, the project area appears to be fallow and large residential developments are present to the north and the west of the project area. In 1985, the project area was still undeveloped and divided by dirt roads. Directly to the north of the project area a residential development is present. By 1995, the high school and pool facility is present. By this time there is no more agriculture occurring or open spaces. Residential and commercial buildings are now present in all directions. No further changes in the project boundary or area are evident in the subsequent available aerial photos, including 1998, 1999, 2002, 2005, 2009, 2010, 2012, 2014, 2016, 2018, 2020.

United State Geological Survey (USGS) topographic maps are available that were prepared from 1947 through 1963 show that the project and surrounding areas were being used for orchard farming (USGS, 1947, 1955, 1960, 1963). All the major roads have been established by this time, including Magnolia Avenue, Fullerton Avenue, and Rimpau Avenue. The 1969 topographic map shows that farming was no longer being conducted in the project area (USGS, 1969). To the north, residential development was present. Directly to the east of the project area but within what was to be the school property a well is indicated on the map. Residential and commercial development appears to be growing outside of the project area between 1975 and 1984 (USGS, 1975, 1984). The 1988 topographic map show a residential development directly to the north of the project area (USGS, 1988). Centennial High School is present on the 2000 map, as well as residential neighborhoods completely surrounding the high school. No changes are seen in the subsequent topographic maps (USGS, 2000, 2012, 2015, 2018).

Centennial High School was built in 1989 and is operated as a 9-12$^{th}$ grade public school (cde.gov, n.d.). This high school is part of the CNUSD.

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# 3.0 RESEARCH METHODS

This cultural resources inventory and related archival research included a background archaeological records check (archival research) at the EIC, University of California at Riverside, a Sacred Lands File search request that was submitted to the NAHC, along with request for a list of local Native American entities to contact. A pedestrian cultural resource survey of the entire project area was conducted. This report presents the results of all of these cultural resource tasks including cultural resource management recommendations.

## 3.1 Records Search

A cultural resource records search by staff at EIC, the CHRIS facility for Riverside County was requested on May 3, 2023 and was conducted on August 2, 2023 by Administrative Coordinator Assistant Eulices Lopez. That research was completed to identify cultural resources on or near the project site. The EIC material was reviewed to identify resources that have been previously evaluated for historic significance, as well as to identify any previously completed cultural resources survey reports.

The California State Historic Resources Inventory for Riverside County was reviewed to identify local cultural resources that have been previously evaluated for historic significance, as well as survey reports. The following were also searched and reviewed: the official records and maps for archaeological sites and surveys in National Register of Historic Places; Listed Properties and Determined Eligible Properties (2012), California Register of Historical Resources (2012), California Points of Historical Interest (2012), California Inventory of Historic Resources (1976), California Historical Landmarks (2012), Handbook of North American Indians, Vol. 8, California (1978), and Historic Spots in California (2002). The scope of the records search included a 0.5-mile radius buffer zone of the project's APE (see **Attachment A, Figure 3**) to assess the sensitivity of the project site for subsurface archaeological resources and to assist in determining the potential to encounter such resources, especially prehistoric—i.e., Native American—cultural remains, during earth-moving activities associated with the undertaking.

## 3.2 Field Survey

On July 12, 2023, Mr. O'Neil visited the project area to conduct a pedestrian survey. During the survey, the project site was carefully inspected for any indication of human activities dating to the prehistoric or historic periods (i.e., 50 years or older). The project site contains a school swimming pool with associated facilities surrounded by a parking lot and driveways. There was minimal landscaping with open ground surface.

## 3.3 Native American Outreach

On May 5, 2023, Mr. O'Neil sent a request to the Native American Heritage Commission (NAHC) via email notifying them of the proposed project activities and describing its location. The NAHC was requested to conduct a search of its Sacred Lands File (SLF) (**Attachment C**), as well as to make recommendations as to the local Native American tribes and organizations that should be contacted regarding knowledge they may have on local traditional cultural properties as well as possible concerns they may have about potential impacts to cultural resources resulting from implementation of the proposed project. The Commission's SLF results were received by email on June 1, 2023. The 36 tribes and Native American individuals recommended by the NAHC were contacted by mail and email on June 2, 2023.

# 4.0 FINDINGS

## 4.1 Records Search

### 4.1.1 Recorded Archaeological Sites

Based on the EIC cultural resources records search, it was determined that there are no prehistoric or historic sites within the project APE. Also, there are no known prehistoric sites within the 0.5-mile buffer of the project. The Corona Historic District (33-6444), centered on Lincoln Avenue in the old downtown district of Corona, does touch upon the project's buffer area to the northwest but does not include the Centennial High School campus (see **Table 4.1-1** below).

**Table 4.1-1**
**KNOWN CULTURAL RESOURCES WITHIN A 0.5-MILE RADIUS OF THE APE**

| Site Number | Author(s) | Date | Description |
|---|---|---|---|
| 33-6444 | Scott, Gloria | 1983 | Corona Historic District |

### 4.1.2 Previous Archaeological Investigations

According to the records at the EIC, there have been nine previous cultural resource studies within portions of the 0.5-mile buffer of the project but none that touch upon the APE of the project site itself (**Table 4.1-2**) (see **Attachment D**). Furthermore, none of these reports identified cultural resources within the 0.5-mile buffer zone. However, one of the surveys did include portions of the Centennial High School campus outside the project site and is described below.

In 2008, Cogstone Resource Management Inc. conducted a cultural resources assessment for planned construction of classrooms in the southeast portion of the Centennial High School campus (Gust and Glover 2008:8) (the current project is located in the north-central portion of the campus). The records search and pedestrian field survey did not locate any prehistoric or historic cultural resources.

The eight remaining prior projects concerned local water utility projects, State Route 91 projects, and a wireless facility, all well beyond the project site. These cultural resource studies are listed in **Table 4.1-2** below.

**Table 4.1-2**
**KNOWN CULTURAL RESOURCE STUDIES WITHIN A 0.5-MILE RADIUS OF THE APE**

| Report Number | Author(s) | Date | Title | Resources |
|---|---|---|---|---|
| RI-04144 | Love, Bruce, and Bai "Tim" Tang | 1998 | Cultural Resources Report: Temescal Valley Regional Interceptor, Santa Ana Watershed Project Authority, Riverside, California | 33-000100; 33-000630; 33-001099; 33-003832; 33-004112 |

| Report Number | Author(s) | Date | Title | Resources |
|---|---|---|---|---|
| RE-05056 | McKenna, et al. | 2003 | A Phase I Cultural Resources Investigation for the Proposed Corona Feeder Master Plan Project Area, Riverside County, California | 33-003832; 33-004768; 33-004791; 33-009774 |
| RI-07164 | Duke, Curt | 2002 | Cultural Resources Assessment for Cingular Wireless Facility No. SB 210-02 in Riverside County, California | NA |
| RI-08043 | Gust, Sherri, and Amy Glover | 2008 | Phase I Cultural Resources Assessment Report for the Centennial High School Project in Corona, California | NA |
| RI-08988 | Bupp, Susan L. | 2013 | Supplemental Archaeological Survey Report for SR-91 Corridor Improvement Project, City of Corona, Riverside County, California. California Department of Transportation, District 8 | NA |
| RI-08989 | Chasteen, Carrie | 2013 | Supplemental Finding of No Adverse Effect Report for SR-91 Corridor Improvement Project, City of Corona, Riverside County, California. California Department of Transportation, District 8 | NA |
| RI-09320 | Wills, Carrie D. | 2014 | Cultural Resources Records Search and Site Visit Results for Verizon Wireless Candidate 'California'. 1180 California Avenue, City of Corona, Riverside County, California. | NA |
| RI-10280 | Belcourt, Andrew | 2011 | Cultural Resource Assessment Reclaimed Waterlines Section 106 Project, City of Corona, Riverside County, California | 33-000652, 33-000675, 33-000808, 33-001040, 33-001259, 33-001436, 33-001437, 33-001438, 33-001439, 33-001440, 33-001441, 33-001445, 33-001511, 33-001654, 33-001655, 33-002202, 33-002315, 33-002316, 33-003002, 33-003055, 33-003153, 33-003559, 33-003629, 33-003852, 33-004791, 33-005310, 33-005781, 33-007585, 33-007586, 33-007719, 33-008831, 33-008923, 33-012556, 33-012559, 33-012622, 33-013146, 33-013147, 33-013148, 33-013409, 33-013859, 33-014736, 33-015129 |
| RI-10846 | Campbell-King, Breana, Jennifer Hadlow, and Lindsay A. Porras | 2016 | Cultural Resource Technical Memorandum for Phase2 of the Reclaimed Water Distribution System Project, City of Corona, Riverside County, California | NA |

## 4.2 Native American Outreach

On May 5, 2023, Mr. O'Neil submitted a request to the NAHC via email for a SLF search within the 0.5-mile project buffer. The results of the search request were received June 1, 2023, at the office of UltraSystems from Mr. Andrew Green, Cultural Resources Analyst. The NAHC letter stated that "A record search of the Native American Heritage Commission (NAHC) Sacred Lands File (SLF) was

completed for the information you have submitted for the above referenced project. The results were negative [emphasis in the original]. (See **Attachment C**.)

UltraSystems prepared letters to each of the 36 tribal contacts representing 24 tribes and bands named by the NAHC (**Attachment C)**. On June 2, 2023, Ms. Doukakis mailed the letters with accompanying maps to all 36 tribal contacts, and emailed the letters and maps to each of the 34 tribal contacts for which email addresses were known, describing the project and showing the project's location, requesting a reply if they have knowledge of cultural resources in the area that they wished to share, and asking if they had any questions or concerns regarding the project. Two mailed letters were returned undeliverable; these were to Chairperson Charles Alvarez with the Gabrielino-Tongva Tribe and Chairperson Sonia Johnston with the Juaneño Band of Mission Indians.

Xitlaly Madrigal, Cultural Resources Analyst for the Agua Caliente Band of Cahuilla Indians, replied by email on June 5, 2023 on behalf of Director Patricia Garcia-Plotkin and Chairperson Reid Milanovich indicating that this project is not located within the Tribe's Traditional Use Area and deferring to other tribes in the area. Ana Rios, Administrative Assistant for the Augustine Band of Cahuilla Mission Indians replied by email on June 2, 2023 with an attached letter signed by Geramy Martin, Tribal Secretary on behalf of Chairperson Amanda Vance, indicating that the tribe is unaware of specific cultural resources that may be affected by the proposed project and that if any cultural resources are encountered during the development of this project to contact them. An email response was received from the Administrative Specialist for the Gabrieleno Band of Mission Indians - Kizh Nation on June 5, 2023 asking for the lead agencies contact information. This information was provided on the same day. Christina Conley, Cultural Resource Administrator for the Gabrielino Tongva Indians of California Tribal Council, responded via email on June 2, 2023 on behalf of Chairperson Robert Dorame indicating that the tribe defers their comments to sister tribes closer to the project area. Dorothy Willis with the Los Coyotes Band of Cahuilla and Cupeño Indians responded by email on June 5, 2023 on behalf of Chairperson Ray Chapparosa indicating that the contact letter had been received and is pending an official response but due to the location, most likely the tribe will defer to the local tribe. John Pepper, Lead Cultural Resources Monitor with the Pala Band of Mission Indians responded by email on June 8, 2023 with a letter signed by Shasta Gaughen, THPO on behalf of Alexis Wallick, Assistant THPO indicating that the project as described is not within the boundaries of the recognized Pala Indian Reservation; the project is also beyond the boundaries of the territory that the tribe considers its Traditional Use Area. Jill McCormick, Historic Preservation Officer Quechan Tribe of the Fort Yuma Reservation responded by email on June 5, 2023 on behalf of President Jordan Joaquin and Acting Chairman Manfred Scott, indicating that they do not wish to comment on this Project and defer to the more local Tribes and support their determinations on this matter. Shuuluk Linton, Tribal Historic Preservation Officer with Rincon Band of Luiseño Indians, responded by email on June 13, 2023 on behalf of Tribal Council Joseph Linton, THPO Cheryl Madrigal, and Tribal Council Member Laurie Gonzalez, indicating that the project area is within the Traditional Use Area of the Luiseño people and within the Tribe's specific Area of Historic Interest but that they have no cultural resource information to provide at this time and have no comments and do not request consultation. Copies of these replies are located in **Attachment C**.

Following up on the initial letter and email contacts, telephone calls were conducted by Ms. Doukakis on July 12, 2022 to those 21 tribal contacts who had not previously replied to UltraSystems' mailings and emails by email or letter and had provided telephone numbers. Thirteen of the telephone calls were placed with no answer and so messages were left describing the project and requesting a response. These were to Chairperson Doug Welmas with the Cabazon Band of Mission Indians, Chairperson Daniel Salgado with the Cahuilla Band of Indians, Chairperson Anthony Morales with the Gabrieleno/Tongva San Gabriel Band of Mission Indians, Chairperson Heidi Lucero with the

Juaneño Band of Mission Indians Acjachemen Nation 84A, Tribal Manager Joyce Perry with the Juaneño Band of Mission Indians Acjachemen Nation, Chairperson Norma Contreras with the La Jolla Band of Luiseño Indians, Chairperson Robert Martin with the Morongo Band of Mission Indians, THPO Ann Brierty with the Morongo Band of Mission Indians, Chairperson Temet Aguilar with the Pauma Band of Luiseño Indians-Pauma & Yuima Reservation, Cultural Resources Manager Paul Macarro with the Pechanga Band of Mission Indians, Chairperson Mark Macarro with Pechanga Band of Mission Indians, Chairperson Joseph Hamilton with the Ramona Band of Cahuilla, and Environmental Coordinator John Gomez with the Ramona Band of Cahuilla. In the call to Chairperson Sandonne Goad with the Gabrielino /Tongva Nation, no message could be left because the voice mailbox was full. The call to Chairperson Charles Alvarez with the Gabrielino-Tongva Tribe could not be completed as the phone line was disconnected. In the call to the Torres-Martinez Desert Cahuilla Indians Cultural Committee there was no answer and there was no answering machine available and so a message could not be left. For Chairperson Sonia Johnston with the Juaneño Band of Mission Indians no phone number was provided. In the call to Tribal Chair Lovina Redner with the Santa Rosa Band of Mission Indians the tribal receptionist answered and indicated that Tribal Chair Redner was not in the office and the best way to contact her is through email (which had already been done).

In the call to Cultural Resource Director Sam Dunlap with the Gabrielino-Tongva Tribe, he indicated that he does not have specific concerns for this project. In the call to Joseph Ontiveros with the Cultural Resource Department for Soboba Band of Luiseño Indians, Mr. Ontiveros indicated that the tribe has no concern with this project.

An email from Laura Chatterton, Cultural Resource Specialist with the Tribal Historic Preservation Office of the Morongo Band of Mission Indians, was received August 8, 29023 stating that the project is within Cahuilla and Serrano ancestral territory and traditional use area and that the area is regarded as highly sensitive for cultural resources regardless of the presence or absence of remaining surface artifacts. The email stated they want to have AB 52 consultation with the Lead Agency and provided a list of items they will request at that time. The email was acknowledged by S. O'Neil on August 9, 2023 noting that the Lead Agency is the Corona-Norco Unified School District, and the email was forwarded to the CNUSD that same day.

There have been no further responses to date of this report's preparation (see contact record table in **Attachment C**).

## 4.3 Pedestrian Survey Results

On July 12, 2023, Mr. O'Neil conducted a cultural resources pedestrian survey using standard archaeological procedures and techniques that meet the Secretary of Interior's standards and guidelines for cultural resources inventory. Mr. O'Neil arrived at Centennial High School at 1:00 p.m. and met Ms. Jacquelyn Roberts, Construction Director, Facilities Division who accompanied him to the project site. The Project site is now occupied by the current swimming pool facilities where the new aquatic center will be constructed (**Figure 4.3-1**). The survey was completed by 2:00 pm.

The site is dominated by the current facilities, with driveways along the south and east sides; the west side also has a driveway and some parking spaces, while to the north is a large parking area. The only surface soil available for inspection was situated on the far side of the east driveway consisting of a landscape bed with a sidewalk along the edge of a school building, and along the west edge of the driveway to the west side of the facility

The landscape bed to the east contains interspersed mock orange (*Philadelphus coronarius*) and an unidentified ornamental shrub (**Figure 4.3-2**). The landscape bed is approximately four feet wide and 260 feet long. All of the soil here is covered with mulch and so no ground surface was visible (**Figure 4.3-3**). There is no plan to replace these shrubs.

The landscape bed to the west between that driveway and the school property line is dominated by a densely planted single species of unidentified ornamental trees (**Figure 4.3-4**) that are eight to ten feet high. Among these there is also a single pepper tree, apparently a legacy from before the current ornamentals were planted (see right foreground in **Figure 4.3-4**). The landscape bed within the Project boundary is approximately 370 feet long and six feet wide, with a slope reaching down to the property line approximately six feet. The branches and foliage of the trees reach to the ground which is also covered by mulch and leaves (**Figure 4.3-5**), and so no ground surface was visible. Ms. Roberts stated that these trees will be removed and replaced as a part of the Project, possibly with tall-growing junipers. Both of the east and west landscape beds have irrigation lines, while the west bed also contains electrical and other utility lines and boxes.

There was no ground visibility observed during this survey. The result of the pedestrian survey was negative for both prehistoric and historic sites and isolates.

**Figure 4.1-1**
**CURRENT SWIMMING POOL FACILITY FROM SOUTHEAST CORNER; VIEW TO NORTHWEST**



**Figure 4.1-2**
**EAST SIDE LANDSCAPE BED WITH SHRUBS; VIEW TO THE NORTH**



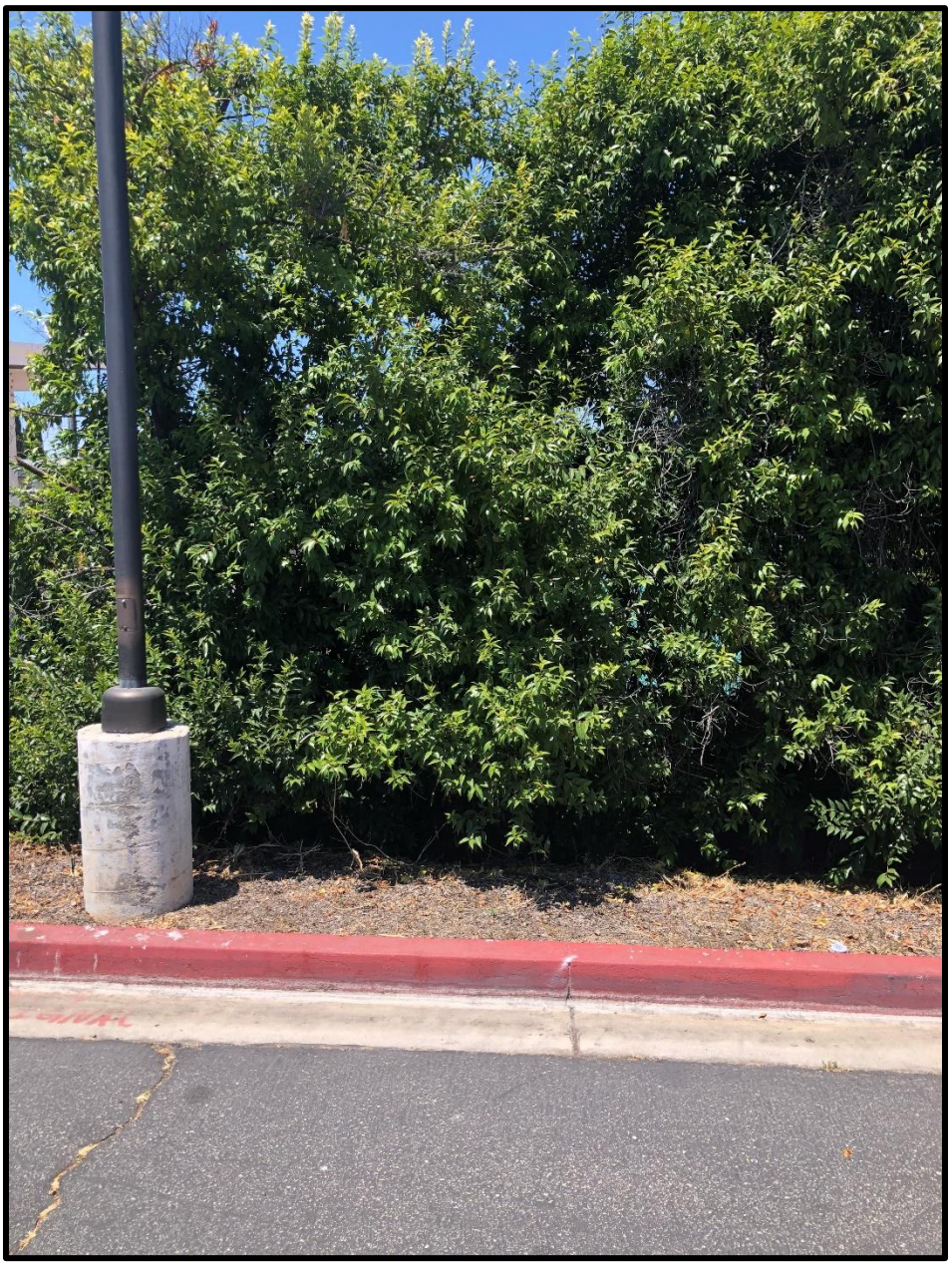
**Figure 4.1-3**
**EAST SIDE LANDSCAPE BED WITH MULCH-COVRED SOIL**



**Figure 4.1-4**
**WEST SIDE LANDSCAPE BED WITH ROW OF ORNAMENTAL TREES; VIEW TO THE SOUTH**



**Figure 4.1-5**
**WEST SIDE LANDSCAPE BED DETAIL SHOWING FOLIAGE AND GROUND COVER; VIEW TO THE WEST**



## 4.4 National Register of Historic Places

A search of the Built Environmental Resource Directory provided by the Office of Historic Preservation (2022) was conducted for this Project on July 11, 2023.

It was determined that the Project boundary and the 0.5-mile radius do not have any resources present that have been evaluated under the National Register.

# 5.0 MANAGEMENT CONSIDERATIONS

## 5.1 Site Evaluation Criteria

Evaluation of significance under the California Environmental Quality Act (CEQA) uses criteria found in eligibility statements for the California Register of Historical Resources (CRHR). Generally, a resource is to be considered historically significant if it meets the criteria for listing in the California Register of Historical Resources in the state historic preservation law [Public Resources Code § 5024.1; California Code of Regulations § 15064.5(a)(3)]. These criteria provide that a resource may be listed as a potentially significant historical resource if it:

- Is associated with the events that have made a significant contribution to the broad patterns of California history and cultural heritage.
- Is associated with the lives of person important in our past.
- 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 value.
- Has yielded, or may be likely to yield, information important in prehistory or history.

No prehistoric or historic cultural resources were identified during this investigation. Therefore, an evaluation of significance under CEQA was not required for this study.

## 5.2 Potential Effects

No potentially significant cultural resources were identified within the Project site or within the 0.5-mile buffer surrounding it according to the EIC records search. No CRHR or National Register of Historic Properties resources are present. No prehistoric or historic cultural resources were observed during the field pedestrian survey of the Project site. Therefore, it is determined that no cultural resources would be adversely affected by the Project. However, the presence of buried cultural (prehistoric and/or historic archaeological) resources cannot be ruled out. If prehistoric and/or historic artifacts are observed during subsurface excavation, work should be stopped in that area and a qualified archaeologist monitor should be called to assess the finds.

# 6.0 CONCLUSIONS AND RECOMMENDATIONS

No prehistoric or historic archaeological resources were identified during the pedestrian field survey of the Project, and the EIC resources records review indicated that there are no prehistoric or historic cultural sites within the APE of the project, and hat within the 0-5-mile buffer of the project site the Corona Historic District touches upon the northwest edge.

In response to tribal outreach, several of the tribes indicated that that the project area was outside their traditional territory and indicated they deferred to tribes located closer. The Morongo Band of Mission Indians stated that the project area is within the ancestral territory and traditional use area of the Cahuilla and Serran of the Band but only listed information they would request during AB 52 consolation with the Lead Agency, and made no recommendations concerning the project itself. Only the Augustine Band of Cahuilla Indians stated they wanted to be contacted if cultural resources were discovered during the construction phase. No tribes recommended monitoring. (See **Section 4.2** and **Attachment C**).

Analysis of the results of the pedestrian assessment and the EIC records search results concludes that no impacts to prehistoric or historical resources are anticipated during the Project undertaking. The prior parking and facilities construction within the APE and the extensive grading to provide a flat surface for these and the entire campus would have removed several feet of native soil. The cultural resources study's findings suggest that there is a low potential for the presence of prehistoric cultural resources. Though the trees along the west side of the project boundary will be removed and replaced, monitoring of this activity is not suggested as it could be seen that this location had already been steeply graded for construction of the school facilities. If prehistoric and/or historic items are observed during subsurface activities, work should be stopped in that area and a qualified archaeologist and Native American monitor should be called to assess the findings and retrieve the material.

If human remains are encountered during excavations associated with this project, work will halt and the Riverside County Coroner will be notified (§ 5097.98 of the Public Resources Code). The Coroner will determine whether the remains are recent human origin or older Native American ancestry. If the coroner, with the aid of the supervising archaeologist, determines that the remains are prehistoric, they will contact the NAHC. The NAHC will be responsible for designating the most likely descendant (MLD), who will be responsible for the ultimate disposition of the remains, as required by § 7050.5 of the California Health and Safety Code. The MLD will make recommendations within 24 hours of his or her notification by the NAHC. These recommendations may include scientific removal and nondestructive analysis of human remains and items associated with Native American burials (§ 7050.5 of the Health and Safety Code).

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# APPENDICES

# ATTACHMENT A

# PROJECT MAPS

**Figure 7**
**Project Regional Location Map**

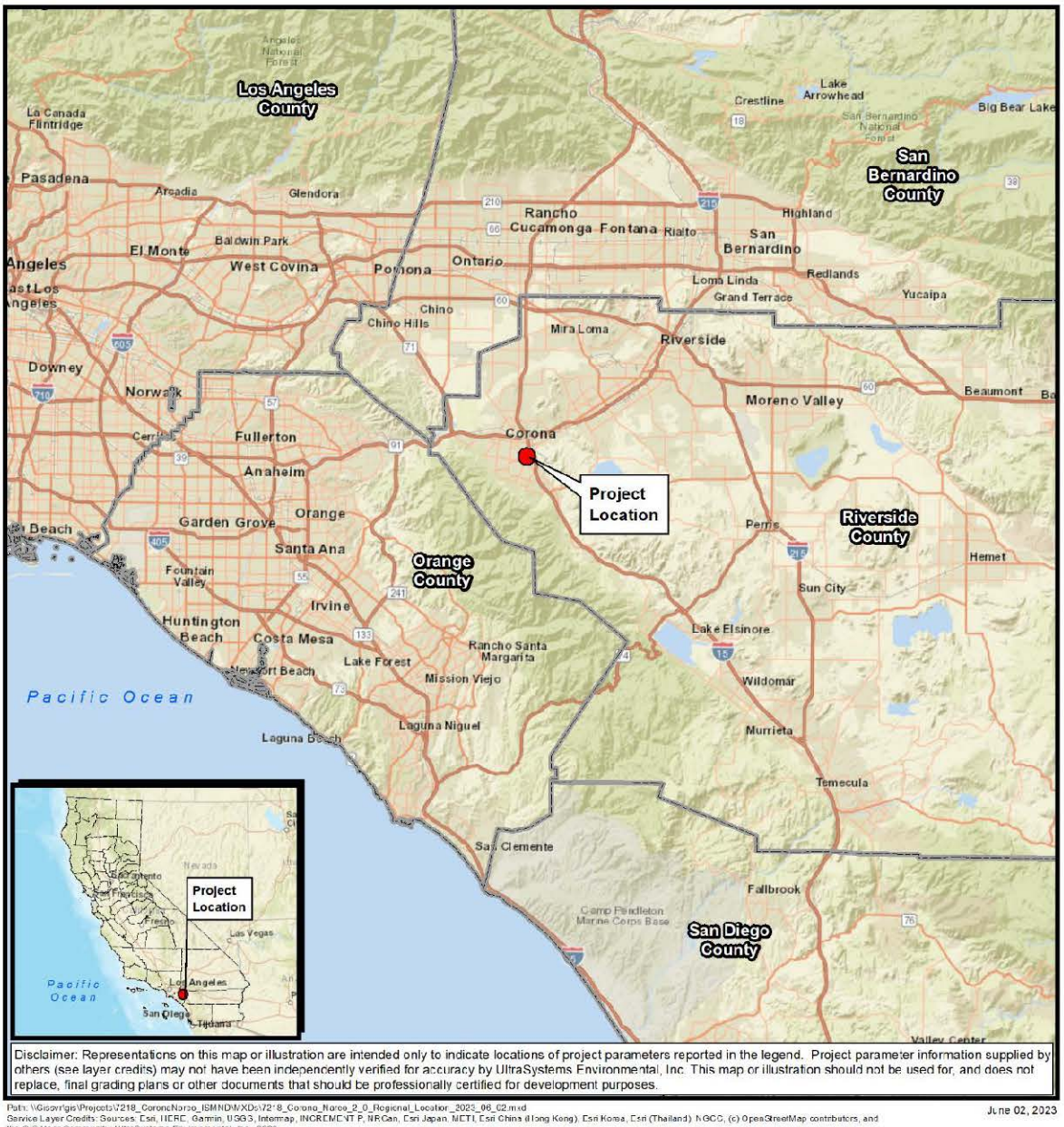
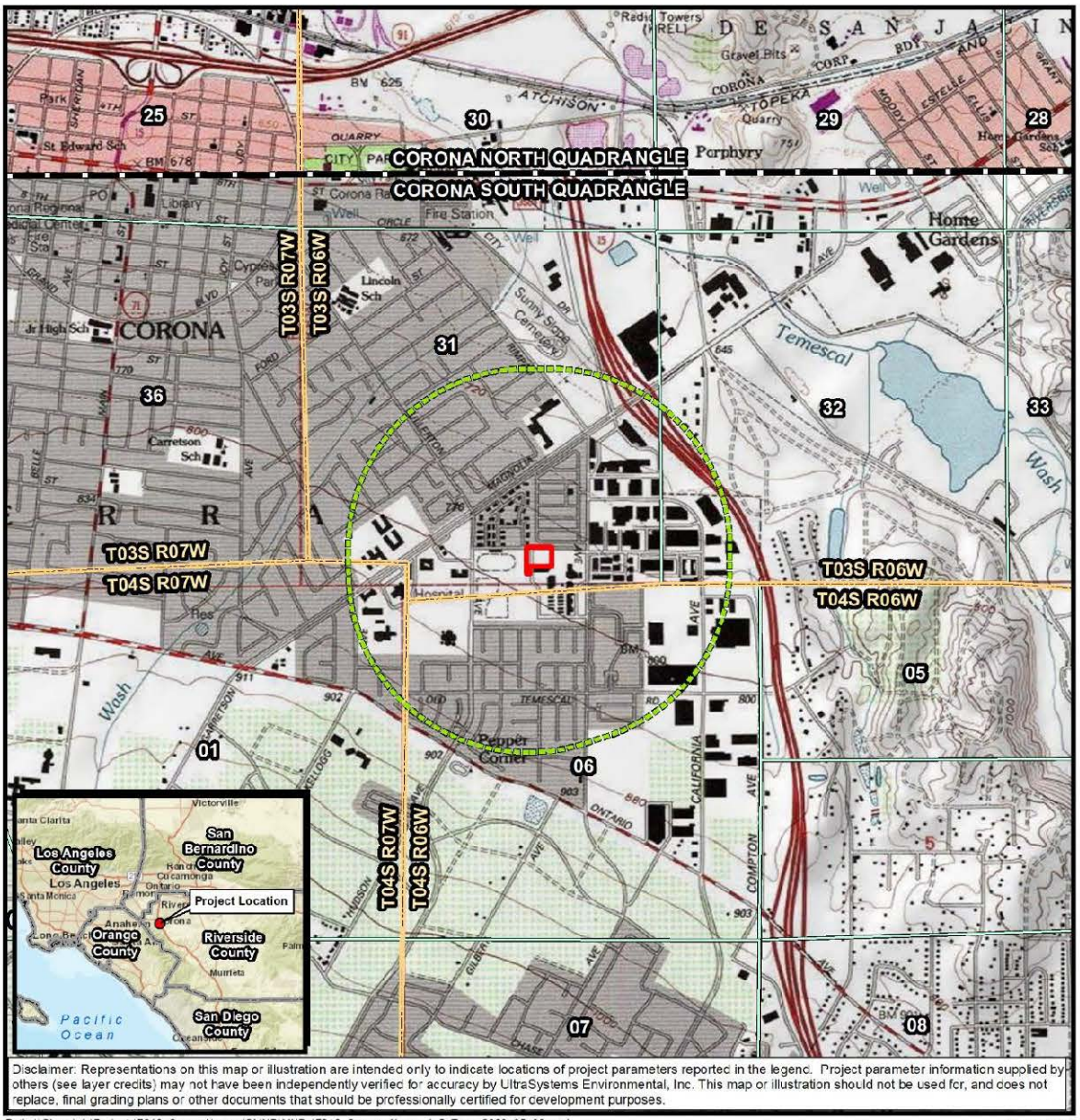


**Figure 8**
**Project Study Area**



**Figure 19**
**Project Study Topographic Map**



# ATTACHMENT B

# PERSONNEL BACKGROUND

# Stephen O'Neil, M.A., RPA

*Cultural Resources Manager, Cultural Anthropology/Archaeology*

## Education

- M.A., Anthropology (Ethnography emphasis), California State University, Fullerton, CA, 2002
- B.A., Anthropology, California State University, Long Beach, CA, 1979

## Professional and Institutional Affiliations

- California Mission Studies Association
- City of Laguna Beach Environmental Sustainability Committee, appointed 2012
- Orange County Natural History Museum; Board Member
- Pacific Coast Archaeological Society; Board Member and Past President
- Society of California Archaeology

## Professional Registrations and Licenses

- Register of Professional Archaeologists (No. 16104) (current)
- Riverside County, CA, Cultural Resource Consultant (No. 259) (current)
- Cultural Resource Field Director, BLM Permit (CA-13-19) – California, 2013
- NEPA and CEQ Consultation for Environmental Professionals; course by the National Association of Environmental Professionals, 2013

## Professional Experience

Mr. O'Neil has 30 years of experience as a cultural anthropologist in California. He has researched and written on archaeology, ethnography, and history. Mr. O'Neil has archaeological experience in excavation, survey, monitoring, and lab work. Most of this has been on Native American prehistoric sites, but also includes Spanish, Mexican, and American period adobe sites. His supervisory experience includes excavation and survey crew chief and project director of an adobe house excavation. He has a wide range of expertise in Phase I & II Environmental Site Assessments, archaeological resource assessment surveys, salvage operations, and cultural background studies for various EIR projects. Mr. O'Neil has worked for cultural resource management firms as well as government agencies and Native American entities. He has prepared technical reports as well as published journal articles.

## Select project experience

***Inglewood Avenue Corridor Widening Project, City of Lawndale, Los Angeles County, CA: 2013-2014***

Mr. O'Neil directed and conducted archaeological field survey, cultural resource records search, Native American contacts and report writing for this project. The City of Lawndale is widening Inglewood Avenue from Marine Avenue north. The project uses Caltrans funds and the cultural resources report was prepared in Caltrans format. A separate historic properties report was prepared as well. Prepared for Huitt-Zollars Engineering.

***Via Ballena Storm Drain Relocation, City of San Clemente, Orange County, CA: 2013***

Mr. O'Neil directed and conducted archaeological field survey, cultural resource records search, Native American contacts and report writing for this project. This residential area has a damaged storm drain under Via Ballena that was causing earth movement and erosion. The meet requirements for state funding, and cultural resources inventory report was required. Prepared for the City of San Clemente

***Pine Canyon Road – Three Points Road to Lake Hughes Road, Los Angeles County, CA: 2013***

Mr. O'Neil directed and conducted archaeological field survey, cultural resource records search, Native American contacts and report writing for this project. This nine-mile portion of Pine Canyon Road lies partially within the Angeles National Forest. A series of widening and culvert repairs is planned by the Los Angeles County Department of Public Works (LACDPW). An assessment was made of possible cultural resources, historic and prehistoric that may be affected by the construction, and four historic sites were recorded. Prepared for LACDPW.

***Alton Parkway Extension Project, Cities of Irvine and Lake Forest, Orange County, CA: 2012***

Mr. O'Neil directed and conducted archaeological and paleontological monitoring, archaeological excavation, cultural resource records search, Native American contacts and report writing for this project. Alton Parkway was extended 2.1 miles between the cities of Irvine and Lake Forest. For the portion within the City of Irvine, UltraSystems conducted monitoring and excavation services. One prehistoric site was excavated and reported on; a series of living features were discovered and also reported. The final monitoring report described the paleontological and archaeological findings. A separate technical report on the archaeological excavations was also prepared. Mr. O'Neil directed research into historic and prehistoric background, and prepared the final assessment of potential impacts. Prepared for the Orange County Department of Public Works.

***NEPA and CEQA Documentation, Los Angeles Regional Interoperable Communications System (LA-RICS), Los Angeles County, CA: 2011-2014***

Mr. O'Neil is part of UltraSystems team currently preparing technical studies and NEPA and CEQA documentation toward the construction of LA-RICS, an $800-million emergency communications system due to be operational in 2016. LA-RICS will provide a highly coordinated emergency communications system to all first-responders to natural and man-made disasters throughout Los Angeles County. Mr. O'Neil is the cultural and historical resources studies team leader, directing five researchers. These studies include coordination of field visits to all 260-plus locations for an archaeologist and/or an architectural historian with agency escorts to observe and record any on-site prehistoric and historic features, performing records and literature searches at archaeology information centers and local archives, contacting local agencies for historically listed structures and districts, coordinate public notices of the project throughout Los Angeles County, consultation with the Native American Heritage Commission and all local tribal organizations, and direct consultation with the California State Historic Preservation Officer (SHPO). This information was compiled by Mr. O'Neil and is used to prepare FCC historical resource forms which were submitted to the SHPO for review.

# Megan B. Doukakis

*Assistant Project Archaeologist*

## Education

- M.A. Public Archaeology, California State University, Northridge, 2019
- B.A., Anthropology, California State University, Long Beach, 2011
- University of California, Los Angeles- Pimu Catalina Archaeological Field School, 2010
- International Scholar Laureate Program: Delegation on Anthropology and Archaeology in China, 2009
- Earthwatch Institute, "Unearthing Mallorca's Past" archaeological excavation, Mallorca, Spain, 2005

## Professional and Institutional Affiliations

- Phi Kappa Phi National Honor Society, 2011
- Sigma Alpha Lambda, National Leadership and Honor Organization, 2010
- Society for California Archaeology Membership 2012-2015

## Professional Experience

Ms. Black has worked in the field of cultural resource management for five years at environmental firms. Before this Ms. Black had participated in multiple field schools in Southern California and abroad. She has experience in survey, excavation, laboratory work, and information searches. Ms. Black holds the title of Archaeological Technician at UltraSystems Environmental. Prior to this, she completed a CRM internship at UltraSystems. These positions have provided her with the opportunity to contribute to proposals, final reports, project scheduling, archaeological record searches and paleontological, archaeological and Native American monitor organizing for projects.

## Select project experience

***Results of the Condition Assessment, Site Monitoring, and Effects Treatment Plan (CASMET) Marine Corps Base Camp Pendleton, San Diego County, CA***

***Client: Marine Corps Base Camp Pendleton, Duration: 5/11 to 9/11***

Ms. Black conducted survey and excavation for the USMC Base Camp Pendleton condition assessment project. Areas were tested around Camp Pendleton for the presence and condition of cultural material previously recorded. She also conducted laboratory work and curation for the material collected within excavations. Ms. Black contributed to the final report with background records searches and prehistoric and historic background writing for the report.

***Archaeological Excavation Results Report for the Alton Parkway Extension Project, Orange County, CA***

***Client: Orange County Department of Public Works; Contract: $357,170, 10/10 to 6/12***

Ms. Black participated in the Alton Parkway project, City of Irvine, Orange County, CA. She was responsible for cleaning and cataloging the artifacts recovered from the excavation and surface collections. She also contributed to the final report by compiling the historical background information.

### *Identification and Evaluation of Historic Properties ADA Wheelchair Access Ramp Improvement Project, City of Lake Forest, Orange County, CA*

***Client: City of Lake Forest/Penco, Contract: $2,981.62, Duration: 6/12 to 7/12***

Ms. Black contributed to the cultural resource records search, field survey, Native American contacts and report writing for this project. This residential area required wheelchair access ramps on every corner in this neighborhood. An assessment of the possible cultural resources that may be affected with this construction was made for the City of Lake Forest. Ms. Black contributed the historic and prehistoric background, and the assessment of the possible resources in the area.

### *Tenaska Solar Projects Imperial Solar Energy Center–South; Imperial Solar Energy Center–West; and Wistaria Ranch, Imperial County, CA*

***Client: Tenaska/CSOLAR Development, Contract: $3,441,809, 10/13 to 8/15.***

Ms. Black conducted Native American contacts for field monitoring, coordinated with subcontractors to initiate cultural and paleontological field surveys, for the several solar energy projects being handled by UltraSystems Environmental in the El Centro area, Imperial County, CA. She contributed different parts of the survey report and monitoring program documents, including historic and prehistoric background, editorial review. At ISEC- West, Ms. Black was responsible for contacting and organizing Tribal monitors for this project. She contacted tribal organizations and inquired about their interest in providing tribal monitors for this project. Ms. Black directly organized with Native American groups to sign agreements, and fill out tax paperwork. She was also responsible for organizing and keeping track of and gathering field log from monitors from six tribal groups. She also recovered previously recorded artifacts in the field before the start of the project.

### *NEPA and CEQA Documentation, Los Angeles Regional Interoperable Communications System - Long Term Evolution, Los Angeles County, CA*

***Client: LARICS Joint Powers Authority, Contract: $3,051,312, 1/12 to 1/15.***

UltraSystems' team prepared technical studies and NEPA and CEQA documentation toward the construction of LA-RICS-LTE, an $800-million emergency communications system that will provide a highly coordinated emergency communications system to all first-responders to natural and man-made disasters throughout Los Angeles County. For this project Ms. Black conducted record searches at the South Central Coastal Information Center for the Department of Commerce on over 300 project sites throughout the County of Los Angeles. She helped prepare letters to the NAHC and tribal organizations associated with the project area. Ms. Black contributed to contacting, organizing, and scheduling architectural historians to conduct historical research around the project areas. Letters were written for contact to local agencies and cities. A public notice was constructed and published in three local newspapers. Ms. Black also constructed hundreds of Federal Communications Commission 620 and 621 forms for submission to California State Historic Preservation Office.

### *Newton Canyon Monitoring Project, CA*

***Client: County of Los Angeles Department of Public Works, Contract: $2,930.00, Duration: 7/13 to 12/13***

Ms. Black was an archaeological monitor for this project. She monitored all ground disturbing activities as well as lightly surveying the area for cultural material. Ms. Black also conducted the records center research at the South Central Coastal Information Center at CSUF. Through email, letter, and telephone correspondence, Ms. Black contacted the NAHC and associated tribal groups.

# ATTACHMENT C

# Native American Heritage Commission Records Search and Native American Contacts

UltraSystems
environmental • management • planning

May 5, 2023

Government Program Analyst
Native American Heritage Commission
1550 Harbor Blvd., Suite 100
West Sacramento, California 95691

**Subject: Cultural Resources Inventory, Centennial High School Aquatic Center, Corona, Riverside County, California. UltraSystems Environmental Project No. 7218.**

Dear NAHC Staff,

UltraSystems Environmental, Inc. (UEI) has been contracted by Corona-Norco Unified School District to conduct a Cultural Resources Inventory in support of the proposed Aquatics Center at Centennial High School, Riverside County, California. UltraSystems will conduct a cultural resources study to evaluate the potential presence of prehistoric and historic resources within the project boundary. I am requesting a Native American Contact List of interested tribes, organizations and individuals in the general Project area, and a search of the Sacred Lands File for potential traditional cultural sites.

The proposed project includes the demolition of the existing east-west oriented pool and facilities and the construction of a north-south oriented pool and aquatics center. The new swimming pool will measure 50 meters long by 25 yards wide with a maximum depth of 8.5 feet deep. The construction would also include covered bleachers, offices, locker rooms, concession stands, restrooms, stadium lighting, and a 4-lane student drop-off area. The project boundary covers an area of approximately 2.6 acres.

The Project area is specifically located at 1820 Rimpau Avenue in the central portion of the city of Corona. The high school campus is bound by Fullerton Avenue to the west and Rimpau Avenue to the east. This may be seen on the *Corona South, Calif.*, USGS topographical quadrangle, Range 06 West, Township 04 South, in the SW ¼ of the SE ¼ of Section 31. The project area is located in the north-central section of the Centennial High School campus. The project area is surrounded to the north by a mobile home park, to the east by a parking lot for the high school, to the south by school buildings and to the west by the high school's football field. This is shown on the attached map and the Project area is depicted with a one-half mile buffer zone.

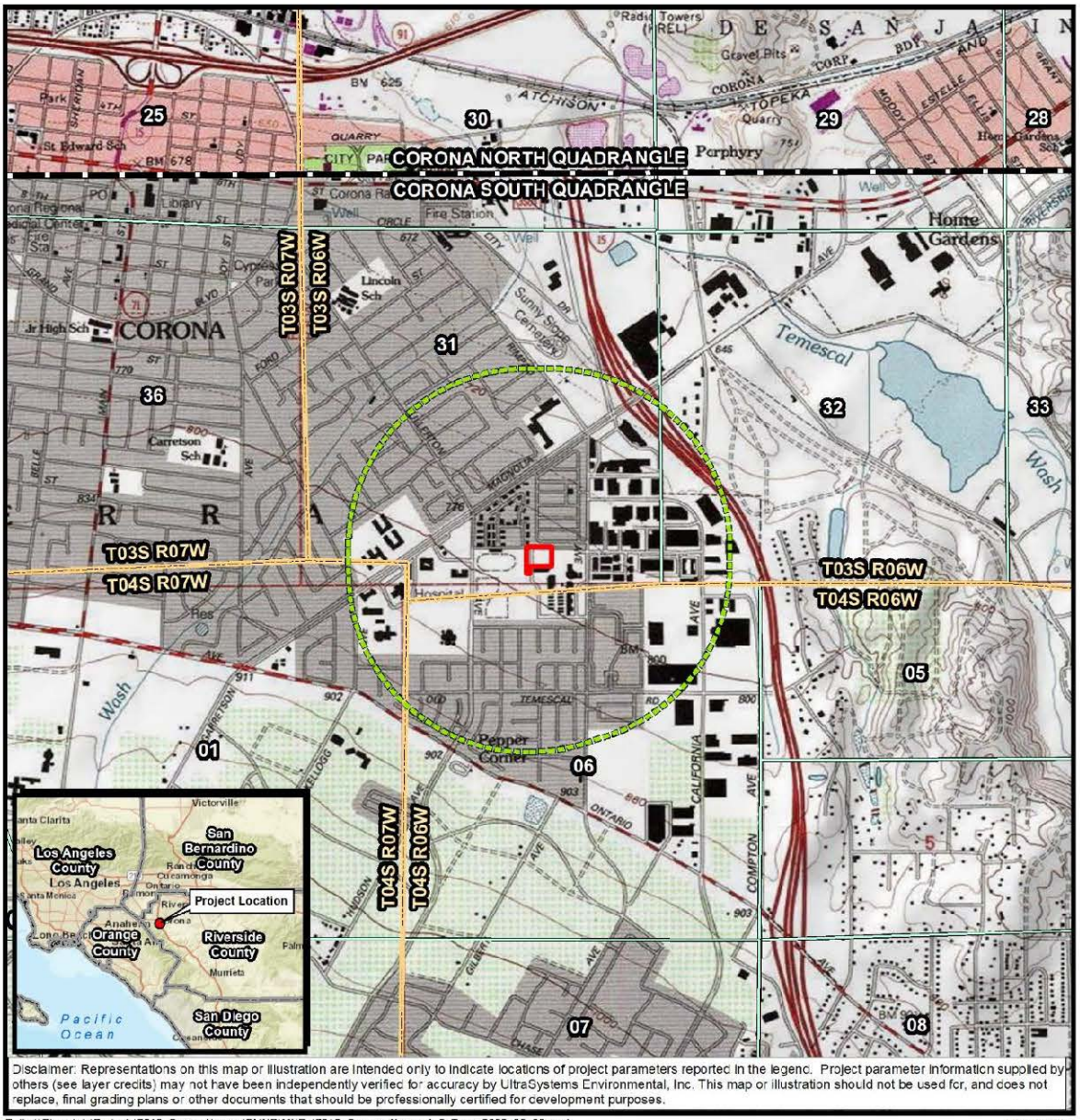
If you require additional information or have any questions, please contact me.

Thank you for your help.

Sincerely,

Stephen O'Neil, M.A., RPA
Cultural Resources Manager
soneil@ultrasystems.com

Corporate Office – Orange County
16431 Scientific Way
Irvine, CA 92618-7443
Telephone: 949.788.4900, ext. 276
Facsimile: 949.788.4901
Website: www.ultrasystems.com




Disclaimer: Representations on this map or illustration are intended only to indicate locations of project parameters reported in the legend. Project parameter information supplied by others (see layer credits) may not have been independently verified for accuracy by UltraSystems Environmental, Inc. This map or illustration should not be used for, and does not replace, final grading plans or other documents that should be professionally certified for development purposes.

Path: \\Gissvr\gis\Projects\7218 CoronaNorco ISMND\MXDs\7218 Corona Norco 4 5 Topo 2023 05 03.mxd
May 03, 2023

Service Layer Credits: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community, Copyright:© 2013 National Geographic Society, i-cubed; California Department of Conservation 2019; UltraSystems Environmental, Inc., 2022

Scale: 1:24,000

N

0 1,000 2,000 Feet

0 250 500 Meters

**Legend**

- Project Boundary
- Half-Mile Radius
- Quadrangle Boundary
- Township Boundary
- Section Boundary

**Centennial High School Aquatic Center**

Topographic Map
USGS Quadrangle: Corona South
Township: 3S Range: 6W
Section: 31

UltraSystems

STATE OF CALIFORNIA — Gavin Newsom, *Governor*

# NATIVE AMERICAN HERITAGE COMMISSION

ACTING CHAIRPERSON
**Reginald Pagaling**
*Chumash*

SECRETARY
**Sara Dutschke**
*Miwok*

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**Stanley Rodriguez**
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COMMISSIONER
**Vacant**

COMMISSIONER
**Vacant**

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EXECUTIVE SECRETARY
**Raymond C. Hitchcock**
*Miwok, Nisenan*

**NAHC HEADQUARTERS**
1550 Harbor Boulevard
Suite 100
West Sacramento,
California 95691
(916) 373-3710
nahc@nahc.ca.gov
NAHC.ca.gov

June 1, 2023

Stephen O'Neil
UltraSystems Environmental

Via Email to: soneil@ultrasystems.com

**Re: Centennial High School Aquatic Center Project, Riverside County**

Dear Mr. O'Neil:

A record search of the Native American Heritage Commission (NAHC) Sacred Lands File (SLF) was completed for the information you have submitted for the above referenced project. The results were negative. However, the absence of specific site information in the SLF does not indicate the absence of cultural resources in any project area. Other sources of cultural resources should also be contacted for information regarding known and recorded sites.

Attached is a list of Native American tribes who may also have knowledge of cultural resources in the project area. This list should provide a starting place in locating areas of potential adverse impact within the proposed project area. I suggest you contact all of those indicated; if they cannot supply information, they might recommend others with specific knowledge. By contacting all those listed, your organization will be better able to respond to claims of failure to consult with the appropriate tribe. If a response has not been received within two weeks of notification, the Commission requests that you follow-up with a telephone call or email to ensure that the project information has been received.

If you receive notification of change of addresses and phone numbers from tribes, please notify me. With your assistance, we can assure that our lists contain current information.

If you have any questions or need additional information, please contact me at my email address: Andrew.Green@nahc.ca.gov.

Sincerely,

Andrew Green

Andrew Green
*Cultural Resources Analyst*

Attachment

Page 1 of 1

**Native American Heritage Commission**
**Native American Contact List**
**Riverside County**
**6/1/2023**

***Agua Caliente Band of Cahuilla Indians***
Patricia Garcia-Plotkin, Director
5401 Dinah Shore Drive — Cahuilla
Palm Springs, CA, 92264
Phone: (760) 699 - 6907
Fax: (760) 699-6924
ACBCI-THPO@aguacaliente.net

***Agua Caliente Band of Cahuilla Indians***
Reid Milanovich, Chairperson
5401 Dinah Shore Drive — Cahuilla
Palm Springs, CA, 92264
Phone: (760) 699 - 6800
Fax: (760) 699-6919
laviles@aguacaliente.net

***Augustine Band of Cahuilla Mission Indians***
Amanda Vance, Chairperson
84-001 Avenue 54 — Cahuilla
Coachella, CA, 92236
Phone: (760) 398 - 4722
Fax: (760) 369-7161
hhaines@augustinetribe.com

***Cabazon Band of Mission Indians***
Doug Welmas, Chairperson
84-245 Indio Springs Parkway — Cahuilla
Indio, CA, 92203
Phone: (760) 342 - 2593
Fax: (760) 347-7880
jstapp@cabazonindians-nsn.gov

***Cahuilla Band of Indians***
Daniel Salgado, Chairperson
52701 U.S. Highway 371 — Cahuilla
Anza, CA, 92539
Phone: (951) 763 - 5549
Fax: (951) 763-2808
Chairman@cahuilla.net

***Gabrieleno Band of Mission Indians - Kizh Nation***
Andrew Salas, Chairperson
P.O. Box 393 — Gabrieleno
Covina, CA, 91723
Phone: (844) 390 - 0787
admin@gabrielenoindians.org

***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., #231 — Gabrielino
Los Angeles, CA, 90012
Phone: (951) 807 - 0479
sgoad@gabrielino-tongva.com

***Gabrielino Tongva Indians of California Tribal Council***
Christina Conley, Cultural Resource Administrator
P.O. Box 941078 — Gabrielino
Simi Valley, CA, 93094
Phone: (626) 407 - 8761
christina.marsden@alumni.usc.edu

***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, Chairperson
23454 Vanowen Street — Gabrielino
West Hills, CA, 91307
Phone: (310) 403 - 6048
Chavez1956metro@gmail.com

***Gabrielino-Tongva Tribe***
Sam Dunlap, Cultural Resource Director
P.O. Box 3919 — Gabrielino
Seal Beach, CA, 90740
Phone: (909) 262 - 9351
tongvatcr@gmail.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 Centennial High School Aquatic Center Project, Riverside County.

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**Native American Heritage Commission**
**Native American Contact List**
**Riverside County**
**6/1/2023**

***Juaneno Band of Mission Indians***
Sonia Johnston, Chairperson
P.O. Box 25628 — Juaneno
Santa Ana, CA, 92799
sonia.johnston@sbcglobal.net

***Juaneno Band of Mission Indians Acjachemen Nation - Belardes***
Joyce Perry, Cultural Resource Director
4955 Paseo Segovia — Juaneno
Irvine, CA, 92603
Phone: (949) 293 - 8522
kaamalam@gmail.com

***Juaneno Band of Mission Indians Acjachemen Nation 84A***
Heidi Lucero, Chairperson, THPO
31411-A La Matanza Street — Juaneno
San Juan Capistrano, CA, 92675
Phone: (562) 879 - 2884
jbmian.chairwoman@gmail.com

***La Jolla Band of Luiseno Indians***
Norma Contreras, Chairperson
22000 Highway 76 — Luiseno
Pauma Valley, CA, 92061
Phone: (760) 742 - 3771

***Los Coyotes Band of Cahuilla and Cupeño Indians***
Ray Chapparosa, Chairperson
P.O. Box 189 — Cahuilla
Warner Springs, CA, 92086-0189
Phone: (760) 782 - 0711
Fax: (760) 782-0712

***Morongo Band of Mission Indians***
Robert Martin, Chairperson
12700 Pumarra Road — Cahuilla
Banning, CA, 92220 — Serrano
Phone: (951) 755 - 5110
Fax: (951) 755-5177
abrierty@morongo-nsn.gov

***Morongo Band of Mission Indians***
Ann Brierty, THPO
12700 Pumarra Road — Cahuilla
Banning, CA, 92220 — Serrano
Phone: (951) 755 - 5259
Fax: (951) 572-6004
abrierty@morongo-nsn.gov

***Pala Band of Mission Indians***
Alexis Wallick, Assistant THPO
PMB 50, 35008 Pala Temecula Road — Cupeno, Luiseno
Pala, CA, 92059
Phone: (760) 891 - 3537
awallick@palatribe.com

***Pala Band of Mission Indians***
Shasta Gaughen, Tribal Historic Preservation Officer
PMB 50, 35008 Pala Temecula Road — Cupeno, Luiseno
Pala, CA, 92059
Phone: (760) 891 - 3515
Fax: (760) 742-3189
sgaughen@palatribe.com

***Pauma Band of Luiseno Indians***
Temet Aguilar, Chairperson
P.O. Box 369 — Luiseno
Pauma Valley, CA, 92061
Phone: (760) 742 - 1289
Fax: (760) 742-3422
bennaecalac@aol.com

***Pechanga Band of Indians***
Mark Macarro, Chairperson
P.O. Box 1477 — Luiseno
Temecula, CA, 92593
Phone: (951) 770 - 6000
Fax: (951) 695-1778
epreston@pechanga-nsn.gov

***Pechanga Band of Indians***
Paul Macarro, Cultural Resources Coordinator
P.O. Box 1477 — Luiseno
Temecula, CA, 92593
Phone: (951) 770 - 6306
Fax: (951) 506-9491
pmacarro@pechanga-nsn.gov

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 Centennial High School Aquatic Center Project, Riverside County.

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**Native American Heritage Commission**
**Native American Contact List**
**Riverside County**
**6/1/2023**

***Quechan Tribe of the Fort Yuma Reservation***
Jordan Joaquin, President,
Quechan Tribal Council
P.O Box 1899 Quechan
Yuma, AZ, 85366
Phone: (760) 919 - 3600
executivesecretary@quechantribe.com

***Quechan Tribe of the Fort Yuma Reservation***
Manfred Scott, Acting Chairman - Kw'ts'an Cultural Committee
P.O. Box 1899 Quechan
Yuma, AZ, 85366
Phone: (928) 210 - 8739
culturalcommittee@quechantribe.com

***Quechan Tribe of the Fort Yuma Reservation***
Jill McCormick, Historic Preservation Officer
P.O. Box 1899 Quechan
Yuma, AZ, 85366
Phone: (928) 261 - 0254
historicpreservation@quechantribe.com

***Ramona Band of Cahuilla***
Joseph Hamilton, Chairperson
P.O. Box 391670 Cahuilla
Anza, CA, 92539
Phone: (951) 763 - 4105
Fax: (951) 763-4325
admin@ramona-nsn.gov

***Ramona Band of Cahuilla***
John Gomez, Environmental Coordinator
P. O. Box 391670 Cahuilla
Anza, CA, 92539
Phone: (951) 763 - 4105
Fax: (951) 763-4325
jgomez@ramona-nsn.gov

***Rincon Band of Luiseno Indians***
Joseph Linton, Tribal Council/Culture Committee Member
One Government Center Lane Luiseno
Valley Center, CA, 92082
Phone: (760) 803 - 3548
jlinton@rincon-nsn.gov

***Rincon Band of Luiseno Indians***
Cheryl Madrigal, Cultural Resources Manager/Tribal Historic Preservation Officer
One Government Center Lane Luiseno
Valley Center, CA, 92082
Phone: (760) 648 - 3000
cmadrigal@rincon-nsn.gov

***Rincon Band of Luiseno Indians***
Laurie Gonzalez, Tribal Council/Culture Committee Member
One Government Center Lane Luiseno
Valley Center, CA, 92082
Phone: (760) 484 - 4835
lgonzalez@rincon-nsn.gov

***Santa Rosa Band of Cahuilla Indians***
Lovina Redner, Tribal Chair
P.O. Box 391820 Cahuilla
Anza, CA, 92539
Phone: (951) 659 - 2700
Fax: (951) 659-2228
lsaul@santarosa-nsn.gov

***Soboba Band of Luiseno Indians***
Joseph Ontiveros, Cultural Resource Department
P.O. BOX 487 Cahuilla
San Jacinto, CA, 92581 Luiseno
Phone: (951) 663 - 5279
Fax: (951) 654-4198
jontiveros@soboba-nsn.gov

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 Centennial High School Aquatic Center Project, Riverside County.

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**Native American Heritage Commission**
**Native American Contact List**
**Riverside County**
**6/1/2023**

***Soboba Band of Luiseno Indians***
Isaiah Vivanco, Chairperson
P. O. Box 487 — Cahuilla
San Jacinto, CA, 92581 — Luiseno
Phone: (951) 654 - 5544
Fax: (951) 654-4198
ivivanco@soboba-nsn.gov

***Torres-Martinez Desert Cahuilla Indians***
Cultural Committee,
P.O. Box 1160 — Cahuilla
Thermal, CA, 92274
Phone: (760) 397 - 0300
Fax: (760) 397-8146
Cultural-Committee@torresmartinez-nsn.gov

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 Centennial High School Aquatic Center Project, Riverside County.

PROJ-2023-002559 — 06/01/2023 09:57 AM — 4 of 4

UltraSystems
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June 29, 2023

Temet Aguilar, Chairperson
Pauma Band of Luiseno Indians
P.O. Box 369
Pauma Valley, CA, 92061

**Subject: Cultural Resources Inventory, Centennial High School Aquatic Center, City of Corona, Riverside County, California. UltraSystems Environmental Project No. 7218.**

Chairperson Aguilar,

UltraSystems Environmental, Inc. (UEI) has been contracted by Corona-Norco Unified School District to conduct a Cultural Resources Inventory in support of the proposed Aquatics Center at Centennial High School, in the City of Corona, Riverside County, California. UltraSystems is conducting a cultural resources assessment and records search to evaluate the potential presence of prehistoric and historic resources within the project boundary.

The proposed project includes the demolition of the existing east-west oriented pool and facilities and the construction of a north-south oriented pool and aquatics center. The new swimming pool will measure 50 meters long by 25 yards wide with a maximum depth of 8.5 feet deep. The construction would also include covered bleachers, offices, locker rooms, concession stands, restrooms, stadium lighting, and a 4-lane student drop-off area. The project boundary covers an area of approximately 2.6 acres.

As part of the cultural resources study for the Project, I am writing to request your input on potential Native American resources in or near the Area of Potential Effect (APE). In a letter dated June 1, 2023, the Native American Heritage Commission stated: "A record search of the Native American Heritage Commission (NAHC) Sacred Lands File (SLF) was completed for the information you have submitted for the above referenced project. The results were negative [emphasis in the original]." The Commission recommended that local Native American individuals and organizations be contacted for further information, including the Pauma Band of Luiseno Indians.

The Project area is specifically located at 1820 Rimpau Avenue in the central portion of the city of Corona. The high school campus is bound by Fullerton Avenue to the west and Rimpau Avenue to the east. This may be seen on the *Corona South, Calif.*, USGS topographical quadrangle, Range 06 West, Township 04 South, in the SW ¼ of the SE ¼ of Section 31. The project area is located in the north-central section of the Centennial High School campus. The project area is surrounded to the north by a mobile home park, to the east by a parking lot for the high school, to the south by school buildings and to the west by the high school's football field. This is shown on the attached map and the Project area is depicted with a one-half mile buffer zone.

If you require additional information or have any questions, please contact me.

Thank you for your help.

Respectfully yours,

Stephen O'Neil, M.A., RPA
Cultural Resources Manager
soneil@ultrasystems.com

Corporate Office – Orange County
16431 Scientific Way
Irvine, CA 92618-7443
Telephone: 949.788.4900, ext. 176
Facsimile: 949.788.4901
Website: www.ultrasystems.com

EXAMPLE

## Native American Contact Log

| Name | Tribe/Affiliation | Letter Contacts | E-mail Contacts | Telephone Contacts | Comments |
|---|---|---|---|---|---|
| Andrew Green, Asst. Government Program Analyst | Native American Heritage Commission | N/A | May 5, 2023 | N/A | Request for Sacred Lands File search and local Native American representatives contact information. Reply received June 1, 2023 from Andrew Green. |
| Patricia Garcia-Plotkin, Director | Agua Caliente Band of Cahuilla Indians | June 2, 2023 | June 2, 2023 | N/A | Letter and email describing project and requesting input on concerns was sent June 2, 2023. Email response was received on June 5, 2023 from Xitlaly Madrigal Cultural Resources Analyst indicating that this project is not located within the Tribe's Traditional Use Area and deferring to the other tribes in the area. |
| Reid Milanovich, Chairperson | Agua Caliente Band of Cahuilla Indians | June 2, 2023 | June 2, 2023 | N/A | Letter and email describing project and requesting input on concerns was sent June 2, 2023. Email response was received on June 5, 2023 from Xitlaly Madrigal Cultural Resources Analyst indicating that this project is not located within the Tribe's Traditional Use Area and deferring to the other tribes in the area. |
| Amanda Vance, Chairperson | Augustine Band of Cahuilla Mission Indians | June 2, 2023 | June 2, 2023 | N/A | Letter and email describing project and requesting input on concerns was sent June 2, 2023. Email response was received on June 2, 2023 from Ana Rios, Administrative Assistant with an attached letter signed by Geramy Martin, Tribal Secretary |

| Name | Tribe/Affiliation | Letter Contacts | E-mail Contacts | Telephone Contacts | Comments |
|---|---|---|---|---|---|
| | | | | | indicating that the tribe is unaware of specific cultural resources that may be affected by the proposed project and if discovery of any cultural resources are encountered during the development of this project to contact them. |
| Doug Welmas, Chairperson | Cabazon Band of Mission Indians | June 2, 2023 | June 2, 2023 | July 12, 2023 | Letter and email describing project and requesting input on concerns was sent June 2, 2023. Phone call was made July 12, 2023. There was no answer; a message was left. No response to date of completing this report. |
| Daniel Salgado, Chairperson | Cahuilla Band of Indians | June 2, 2023 | June 2, 2023 | July 12, 2023 | Letter and email describing project and requesting input on concerns was sent June 2, 2023. Phone call was made July 12, 2023. There was no answer; a message was left. No response to date of completing this report. |
| Andrew Salas, Chairperson | Gabrieleno Band of Mission Indians - Kizh Nation | June 2, 2023 | June 2, 2023 | N/A | Letter and email describing project and requesting input on concerns was sent June 2, 2023. Email response was received on June 5, 2023 from the Administrative Specialist asking for the lead agencies contact information. This information was provided on June 5, 2023. |
| Anthony Morales, Chairperson | Gabrieleno/ Tongva San Gabriel Band of Mission Indians | June 2, 2023 | June 2, 2023 | July 12, 2023 | Letter and email describing project and requesting input on concerns was sent June 2, 2023. Phone call was made July 12, 2023. There was no answer; a message was left. No |

| Name | Tribe/Affiliation | Letter Contacts | E-mail Contacts | Telephone Contacts | Comments |
|---|---|---|---|---|---|
| | | | | | response to date of completing this report. |
| Sandonne Goad, Chairperson | Gabrielino /Tongva Nation | June 2, 2023 | June 2, 2023 | July 12, 2023 | Letter and email describing project and requesting input on concerns was sent June 2, 2023. Phone call was made July 12, 2023. There was no answer; the voicemail box was full; no message was left. No response to date of completing this report. |
| Christina Conley, Cultural Resource Administrator | Gabrielino Tongva Indians of California Tribal Council | June 2, 2023 | June 2, 2023 | N/A | Letter and email describing project and requesting input on concerns was sent June 2, 2023. Email response was received on June 2, 2023 from Ms. Conley indicating that the tribe defers their comments to sister tribes. |
| Robert Dorame, Chairperson | Gabrielino Tongva Indians of California Tribal Council | June 2, 2023 | June 2, 2023 | N/A | Letter and email describing project and requesting input on concerns was sent June 2, 2023. See response from Ms. Conley above. |
| Charles Alvarez, Chairperson | Gabrielino-Tongva Tribe | June 2, 2023 | June 2, 2023 | July 12, 2023 | Letter and email describing project and requesting input on concerns was sent June 2, 2023. The letter was returned undeliverable. Phone call was made July 12, 2023. The phone line was disconnected. No response to date of completing this report. |
| Sam Dunlap, Cultural Resource Director | Gabrielino-Tongva Tribe | June 2, 2023 | June 2, 2023 | July 12, 2023 | Letter and email describing project and requesting input on concerns was sent June 2, 2023. Phone call was made July 12, 2023. Mr. Dunlap indicated that he does not have a specific concern for this project. |
| Sonia Johnston, Chairperson | Juaneño Band of Mission | June 2, 2023 | June 2, 2023 | No number provided | Letter and email describing project and |

| Name | Tribe/Affiliation | Letter Contacts | E-mail Contacts | Telephone Contacts | Comments |
|---|---|---|---|---|---|
| | Indians | | | | requesting input on concerns was sent June 2, 2023. The letter was returned undeliverable. No phone number was provided No response to date of completing this report. |
| Heidi Lucero, Chairperson, THPO | Juaneño Band of Mission Indians Acjachemen Nation 84A | June 2, 2023 | June 2, 2023 | July 12, 2023 | Letter and email describing project and requesting input on concerns was sent June 2, 2023. Phone call was made July 12, 2023. There was no answer; a message was left. No response to date of completing this report. |
| Joyce Perry, Tribal Manager | Juaneño Band of Mission Indians Acjachemen Nation - Belardes | June 2, 2023 | June 2, 2023 | July 12, 2023 | Letter and email describing project and requesting input on concerns was sent June 2, 2023. Phone call was made July 12, 2023. There was no answer; a message was left. No response to date. |
| Norma Contreras, Chairperson | La Jolla Band of Luiseño Indians | June 2, 2023 | No email address provided. | July 12, 2023 | Letter describing the project and requesting input on concerns was sent June 2, 2023. Phone call was made July 12, 2023. There was no answer; a message was left. No response to date of completing this report. |
| Ray Chapparosa, Chairperson | Los Coyotes Band of Cahuilla and Cupeño Indians | June 2, 2023 | June 2, 2023 | N/A | Letter and email describing project and requesting input on concerns was sent June 2, 2023. Email response was received on June 5, 2023 from Dorothy Willis indicating that they project has been received and is pending an official response but due to the location, most likely the tribe will defer to the local tribe. |

| Name | Tribe/Affiliation | Letter Contacts | E-mail Contacts | Telephone Contacts | Comments |
|---|---|---|---|---|---|
| Robert Martin, Chairperson | Morongo Band of Mission Indians | June 2, 2023 | June 2, 2023 | July 12, 2023 | Letter and email describing project and requesting input on concerns was sent June 2, 2023. Phone call was made July 12, 2023. There was no answer; a message was left. No response to date. See response from L. Chatterton below. |
| Ann Brierty, THPO | Morongo Band of Mission Indians | June 2, 2023 | June 2, 2023 | July 12, 2023 | Letter and email describing project and requesting input on concerns was sent June 2, 2023. Phone call was made July 12, 2023. There was no answer; a message was left. An email from Laura Chatterton, Cultural Resource Specialist, was received August 8, 29023 stating that the project is within Cahuilla and Serrano ancestral territory and traditional use area and that the area is regarded as highly sensitive for cultural resources regardless of the presence or absence of remaining surface artifacts. The email stated they want to have AB 52 consultation with the Lead Agency and provided a list of items they will request at that time. The email was acknowledged by S. O'Neil on August 9, 2023 noting that the Lead Agency is the Corona-Norco Unified School District, and the email was forwarded to the CNUSD that same day. |
| Alexis Wallick, Assistant THPO | Pala Band of Mission Indians | June 2, 2023 | June 2, 2023 | N/A | Letter and email describing project and requesting input on |

| Name | Tribe/Affiliation | Letter Contacts | E-mail Contacts | Telephone Contacts | Comments |
|---|---|---|---|---|---|
| | | | | | concerns was sent June 2, 2023. Email response was received on June 8, 2023 from John Pepper, Lead Cultural Resources Monitor with a letter attached signed by Shasta Gaughen, THPO indicating that the project as described is not within the boundaries of the recognized Pala Indian Reservation. The project is also beyond the boundaries of the territory that the tribe considers its Traditional Use Area. |
| Shasta Gaughan, Tribal Historic Preservation Officer | Pala Band of Mission Indians | June 2, 2023 | June 2, 2023 | N/A | Letter and email describing project and requesting input on concerns was sent June 2, 2023. Email response was received on June 8, 2023 from John Pepper, Lead Cultural Resources Monitor with a letter attached signed by Shasta Gaughen, THPO indicating that the project as described is not within the boundaries of the recognized Pala Indian Reservation. The project is also beyond the boundaries of the territory that the tribe considers its Traditional Use Area. |
| Temet Aguilar, Chairperson | Pauma Band of Luiseño Indians-Pauma & Yuima Reservation | June 2, 2023 | June 2, 2023 | July 12, 2023 | Letter and email describing project and requesting input on concerns was sent June 2, 2023. Phone call was made July 12, 2023. There was no answer; a message was left. No response to date of completing this report. |

| Name | Tribe/Affiliation | Letter Contacts | E-mail Contacts | Telephone Contacts | Comments |
|---|---|---|---|---|---|
| Paul Macarro, Cultural Resources Manager | Pechanga Band of Mission Indians | June 2, 2023 | June 2, 2023 | July 12, 2023 | Letter and email describing project and requesting input on concerns was sent June 2, 2023. Phone call was made July 12, 2023. There was no answer; a message was left. No response to date of completing this report. |
| Mark Macarro, Chairperson | Pechanga Band of Mission Indians | June 2, 2023 | June 2, 2023 | July 12, 2023 | Letter and email describing project and requesting input on concerns was sent June 2, 2023. Phone call was made July 12, 2023. There was no answer; a message was left. No response to date of completing this report. |
| Jordan Joaquin, President, Quechan Tribal Council | Quechan Tribe of the Fort Yuma Reservation | June 2, 2023 | June 2, 2023 | N/A | Letter and email describing project and requesting input on concerns was sent June 2, 2023. See email response from Jill McCormick below. |
| Manfred Scott, Acting Chairman - Kw'ts'an Cultural Committee | Quechan Tribe of the Fort Yuma Reservation | June 2, 2023 | June 2, 2023 | N/A | Letter and email describing project and requesting input on concerns was sent June 2, 2023. See email response from Jill McCormick below. |
| Jill McCormick, Historic Preservation Officer | Quechan Tribe of the Fort Yuma Reservation | June 2, 2023 | June 2, 2023 | N/A | Letter and email describing project and requesting input on concerns was sent June 2, 2023. Email response was received on June 5, 2023 indicating that they do not wish to comment on this Project and defer to the more local Tribes and support their determinations on this matter |
| Joseph Hamilton, Chairperson | Ramona Band of Cahuilla | June 2, 2023 | June 2, 2023 | July 12, 2023 | Letter and email describing project and requesting input on |

| Name | Tribe/Affiliation | Letter Contacts | E-mail Contacts | Telephone Contacts | Comments |
|---|---|---|---|---|---|
| | | | | | concerns was sent June 2, 2023. Phone call was made July 12, 2023. There was no answer; a message was left. No response to date of completing this report. |
| John Gomez, Environmental Coordinator | Ramona Band of Cahuilla | June 2, 2023 | June 2, 2023 | July 12, 2023 | Letter and email describing project and requesting input on concerns was sent June 2, 2023. Phone call was made July 12, 2023. There was no answer; a message was left. No response to date of completing this report. |
| Joseph Linton, Tribal Council/ Culture Committee Member | Rincon Band of Luiseño Indians | June 2, 2023 | June 2, 2023 | N/A | Letter and email describing project and requesting input on concerns was sent June 2, 2023. An email response was received on June 13, 2023 from Shuuluk Linton, Tribal Historic Preservation officer with a letter attached indicating that the project area is within the Traditional Use Area of the Luiseño people and within the Tribe's specific Area of Historic Interest but that they have no cultural resource information to provide at this time and have no comments and don't request consultation. |
| Cheryl Madrigal, Tribal Historic Preservation Officer | Rincon Band of Luiseño Indians | June 2, 2023 | June 2, 2023 | N/A | Letter and email describing project and requesting input on concerns was sent June 2, 2023. An email response was received on June 13, 2023 from Shuuluk Linton, Tribal Historic Preservation officer with a letter attached indicating that the project area is within the |

| Name | Tribe/Affiliation | Letter Contacts | E-mail Contacts | Telephone Contacts | Comments |
|---|---|---|---|---|---|
| | | | | | Traditional Use Area of the Luiseño people and within the Tribe's specific Area of Historic Interest but that they have no cultural resource information to provide at this time and have no comments and don't request consultation. |
| Laurie Gonzalez, Tribal Council/ Culture Committee Member | Rincon Band of Luiseño Indians | June 2, 2023 | June 2, 2023 | N/A | Letter and email describing project and requesting input on concerns was sent June 2, 2023. An email response was received on June 13, 2023 from Shuuluk Linton, Tribal Historic Preservation officer with a letter attached indicating that the project area is within the Traditional Use Area of the Luiseño people and within the Tribe's specific Area of Historic Interest but that they have no cultural resource information to provide at this time and have no comments and don't request consultation. |
| Lovina Redner, Tribal Chair | Santa Rosa Band of Mission Indians | June 2, 2023 | June 2, 2023 | July 12, 2023 | Letter and email describing project and requesting input on concerns was sent June 2, 2023. Phone call was made July 12, 2023. The tribal receptionist indicated that Tribal Chair Redner was not in the office and the best way to contact her is through email. No response to date of completing this report. |
| Isaiah Vivanco, Chairperson | Soboba Band of Luiseño Indians | June 2, 2023 | June 2, 2023 | N/A | Letter and email describing project and requesting input on concerns was sent June 2, |

| Name | Tribe/Affiliation | Letter Contacts | E-mail Contacts | Telephone Contacts | Comments |
|---|---|---|---|---|---|
| | | | | | 2023. See response from Mr. Ontiveros below. |
| Joseph Ontiveros, Cultural Resource Department | Soboba Band of Luiseño Indians | June 2, 2023 | June 2, 2023 | July 12, 2023 | Letter and email describing project and requesting input on concerns was sent June 2, 2023. Phone call was made July 12, 2023. Mr. Ontiveros indicated that the tribe has no concern with this project. |
| Cultural Committee | Torres-Martinez Desert Cahuilla Indians | June 2, 2023 | June 2, 2023 | July 12, 2023 | Letter and email describing project and requesting input on concerns was sent June 2, 2023. Phone call was made July 12, 2023. There was no answer; the line continues to ring with no answer and no message machine was available. No response to date of completing this report. |

**From:** Shuuluk Linton <slinton@rincon-nsn.gov>
**Sent:** Tuesday, June 13, 2023 12:51 PM
**To:** soneil@ultrasystems.com
**Cc:** Deneen Pelton <DPelton@rincon-nsn.gov>; Cheryl Madrigal <CMadrigal@rincon-nsn.gov>
**Subject:** Centennial High School Aquatic Center City of Corona

Please see attached response letter to above mentioned project. If you have any questions or comments, please contact us.

Thank you for the opportunity to protect our cultural assets.

Shuuluk

**Shuuluk Linton**
Tribal Historic Preservation Coordinator
Cultural Resources Department
**Rincon Band of Luiseño Indians**
1 West Tribal Road | Valley Center, CA 92082
Office:(760) 749 1092 ext. 320|Cell(760) 522-7230
Fax:760-749-8901
Email:slinton@rincon-nsn.gov

# Rincon Band of Luiseño Indians
## CULTURAL RESOURCES DEPARTMENT

One Government Center Lane | Valley Center | CA 92082
(760) 749-1092 | Fax: (760) 749-8901 | rincon-nsn.gov


June 13, 2023

**Sent via email: rthomas@paleowest.com**

**Re: Centennial High School Aquatic Center, City of Corona, Riverside County, California**

Dear Stephen O'Neil,

This letter is written on behalf of the Rincon Band of Luiseño Indians ("Rincon Band" or "Tribe"), a federally recognized Indian tribe and sovereign government. We have received your notification regarding the above referenced project, and we thank you for the opportunity to consult on the project. The identified location is within the Traditional Use Area of the Luiseño people and within the Tribe's specific Area of Historic Interest (AHI). As such, the Rincon Band is traditionally and culturally affiliated to the project area.

After reviewing the provided documents and our internal information, no cultural resource information is available to share at this time. The Tribe therefore has no comments and we do not request consultation. We recommend that you contact local tribes as they are closer to the project and may have pertinent information. Please forward a final copy of the cultural resources study upon completion to the Rincon Band.

If you have additional questions or concerns, please do not hesitate to contact our office at your convenience at (760) 749 1092 ext. 320 or via electronic mail at slinton@rincon-nsn.gov. Thank you for the opportunity to protect and preserve our cultural assets.

Sincerely,

Shuuluk Linton

Shuuluk Linton
Tribal Historic Preservation Office Coordinator
Cultural Resources Department


Bo Mazzetti, Chairman | Tishmall Turner, Vice Chair | Laurie E. Gonzalez, Council Member | John Constantino, Council Member | Joseph Linton, Council Member

From: Steve Oneil
To: Shuuluk Linton
Cc: Deneen Pelton; Cheryl Madrigal; Megan Black
Subject: RE: 7218 - Centennial High School Aquatic Center City of Corona
Date: Tuesday, June 13, 2023 12:56:38 PM
Attachments: image002.jpg
image003.jpg

Dear Shuuluk Linton,

Thank you for your letter on behalf of the Rincon Band of Luiseno Indians regarding the Centennial High School aquatic project. This will be included in the project cultural resources report.

Steve

Stephen O'Neil | Cultural Resources Manager | M.A./RPA

**UltraSystems Environmental | WBE/DBE/SBE/WOSB**
16431 Scientific Way
Irvine, CA 92618
Office **949.788.4900 ext. 276**
Fax 949.788.4901
Cell 949.677.2391

**From:** Jill McCormick <historicpreservation@quechantribe.com>
**Sent:** Monday, June 5, 2023 7:39 AM
**To:** mblack@ultrasystems.com
**Cc:** soneil@ultrasystems.com
**Subject:** RE: [EXTERNAL]:Project 7218 - Cultural Resources Inventory, Centennial High School Aquatic Center Project, Riverside County, California

This email is to inform you that we do not wish to comment on this project. We defer to the more local Tribes and support their determinations on this matter.

*Thank you,*
*H. Jill McCormick, M.A.*

Quechan Indian Tribe
Historic Preservation Officer
P.O. Box 1899
Yuma, AZ 85366-1899
Office: 760-572-2423
Cell: 928-261-0254
E-mail: historicpreservation@quechantribe.com

**From:** Steve Oneil
**To:** Jill McCormick; Megan Black
**Subject:** RE: [EXTERNAL]: Project 7218 - Cultural Resources Inventory, Centennial High School Aquatic Center Project, Riverside County, California
**Date:** Monday, June 5, 2023 8:26:20 AM
**Attachments:** image001.jpg
image002.jpg

Good morning Jill,

Thank you for your response on behalf of the Quechan Indian Tribe regarding the Centennial High School project. This will be included in our cultural resources report.

Best regards,

Steve

**Stephen O'Neil | Cultural Resources Manager | M.A./RPA**

**UltraSystems Environmental | WBE/DBE/SBE/WOSB**
16431 Scientific Way
Irvine, CA 92618
Office **949.788.4900 ext. 276**
Fax 949.788.4901
Cell 949.677.2391

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**From:** John Pepper <jpepper@palatribe.com>
**Sent:** Thursday, June 8, 2023 2:20 PM
**To:** soneil@ultrasystems.com
**Subject:** response to project No 7218

Hello Stephen,

Attached is the response from the Pala Band of Mission Indians

Thanks

John Pepper
Pala Band of Mission Indians
Lead Cultural Resources Monitor
Pala Environmental Department, THPO
35008 Pala Temecula Road, Pmb 50; Pala, CA 92059
jpepper@palatribe.com

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THPO
Pala Band of Mission Indians

TRIBAL HISTORIC PRESERVATION OFFICE
PALA BAND OF MISSION INDIANS
PMB 50, 35008 Pala Temecula Road | Pala, CA 92059
Phone 760-891-3510 | www.palatribe.com

June 8, 2023

Stephen O'Neil, M.A., RPA
UltraSystems
16431 Scientific Way
Irvine, CA 92618-7443

Re: Cultural Resources Inventory, Centennial High School Aquatic center, City of Corona, Riverside County, UltraSystems Environmental Project No.7218

Dear Stephen O'Neil:

The Pala Band of Mission Indians Tribal Historic Preservation Office has received your notification of the project referenced above. This letter constitutes our response on behalf of Robert Smith, Tribal Chairman.

We have consulted our maps and determined that the project as described is not within the boundaries of the recognized Pala Indian Reservation. The project is also beyond the boundaries of the territory that the tribe considers its Traditional Use Area (TUA). Therefore, we have no objection to the continuation of project activities as currently planned and we defer to the wishes of Tribes in closer proximity to the project area.

We appreciate involvement with your initiative and look forward to working with you on future efforts. Pala is now offering tribal monitoring services. If you have questions or need additional information, please do not hesitate to contact John Pepper by e-mail at THPO@palatribe.com.

Sincerely,

Shasta C. Gaughen, PhD
Tribal Historic Preservation Officer
Pala Band of Mission Indians

ATTENTION: THE PALA TRIBAL HISTORIC PRESERVATION OFFICE IS RESPONSIBLE FOR ALL REQUESTS FOR CONSULTATION. PLEASE ADDRESS CORRESPONDENCE TO SHASTA C. GAUGHEN AT THE ABOVE ADDRESS. IT IS NOT NECESSARY TO ALSO SEND NOTICES TO PALA TRIBAL CHAIRMAN ROBERT SMITH.

Consultation letter 1

**From:** Dorothy Willis
**To:** mblack@ultrasystems.com
**Cc:** soneil@ultrasystems.com
**Subject:** RE: Project 7218 - Cultural Resources Inventory, Centennial High School Aquatic Center Project, Riverside County, California
**Date:** Monday, June 5, 2023 9:21:21 AM
**Attachments:** image001.jpg

Good Morning Megan,
Apologies, I was out of the office on Friday. I have received, reviewed, logged, and am pending official response. However, due to the location, most likely the tribe will defer to the local tribe.

Thank you,
Dorothy Willis
Los Coyotes Band of Indians

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**From:** Christina Marsden Conley
**To:** mblack@ultrasystems.com
**Subject:** Re: Project 7218 - Cultural Resources Inventory, Centennial High School Aquatic Center Project, Riverside County, California
**Date:** Friday, June 2, 2023 12:58:15 PM
**Attachments:** 7218 Centennial HS Aquatics-Conley.pdf
Untitled attachment 04681.htm
7218 Corona Norco 4 5 Tcoo 2023 05 03.pdf
Untitled attachment 04684.htm

We defer our comments to our sister tribes.

tchoovet taamet
CHRISTINA CONLEY
•Native American Monitor - Caretaker of our Ancestral Land and Water
•Cultural Resource Administrator Under Tribal Chair, Robert Dorame (Most Likely Descendant) of Pimugna (Catalina Island), Carson, Huntington Beach, Long Beach, Marina del Rey, Playa Vista, Studio City
•Native American Heritage Commission Contact
•Fully qualified as a California State Recognized Native American Tribe fulfilling SB18, AB52 Compliance Regulations
•HAZWOPER Certified
•626.407.8761

GABRIELINO TONGVA INDIANS OF CALIFORNIA
The Gabrielino Tongva Indians of California tribe is traditionally and culturally recognized in the State of California Bill AJR96 as the aboriginal tribe to encompass the entire Los Angeles Basin area to Laguna Beach, extending to the Channel Islands of Santa Catalina, San Nicholas and San Clemente Islands

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**From:** Gabrieleno Administration <admin@gabrielenoindians.org>
**Sent:** Monday, June 5, 2023 10:25 AM
**To:** mblack@ultrasystems.com
**Subject:** Re: Project 7218 - Cultural Resources Inventory, Centennial High School Aquatic Center Project, Riverside County, California

Hello Megan

Thank you for your email. Can you please provide the lead agencies contact information?

Admin Specialist
Gabrieleno Band of Mission Indians - Kizh Nation
PO Box 393
Covina, CA 91723

Office: 844-390-0787

website: www.gabrielenoindians.org



*The region where Gabrieleño culture thrived for more than eight centuries encompassed most of Los Angeles County, more than half of Orange County and portions of Riverside and San Bernardino counties. It was the labor of the Gabrieleño who built the missions, ranchos and the pueblos of Los Angeles. They were trained in the trades, and they did the construction and maintenance, as well as the farming and managing of herds of livestock. "The Gabrieleño are the ones who did all this work, and they really are the foundation of the early economy of the Los Angeles area ". "That's a contribution that Los Angeles has not recognized the fact that in its early decades, without the Gabrieleño, the community simply would not have survived."*

On Mon, Jun 5, 2023 at 10:32 AM <mblack@ultrasystems.com> wrote:

> Good morning,
>
> Below is the lead agency's contact information for this project.
>
> Corona-Norco Unified School District
>
> Jacquelyn Roberts, Construction Director - Facilities Division
>
> 951/230-2267
>
> Jacquelyn.Roberts@cnusd.k12.ca.us
>
> Best regards,
>
> **Megan Black Doukakis | Assistant Project Archaeologist | M.A.**
>
> **UltraSystems Environmental | WBE/DBE/SBE/WOSB**
>
> 16431 Scientific Way Irvine, CA 92618
> Office **949.788.4900 Ext. 228** Fax 949.788.4901
>
> Cell 310.850.8127

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**From:** Gabrieleno Administration
**To:** mblack@ultrasystems.com
**Subject:** Re: Project 7218 - Cultural Resources Inventory, Centennial High School Aquatic Center Project, Riverside County, California
**Date:** Monday, June 5, 2023 11:52:36 AM
**Attachments:** image001.jpg

Thank you Megan

Admin Specialist
Gabrieleno Band of Mission Indians - Kizh Nation
PO Box 393
Covina, CA 91723
Office: 844-390-0787
website: www.gabrielenoindians.org

*The region where Gabrieleño culture thrived for more than eight centuries encompassed most of Los Angeles County, more than half of Orange County and portions of Riverside and San Bernardino counties. It was the labor of the Gabrieleño who built the missions, ranchos and the pueblos of Los Angeles. They were trained in the trades, and they did the construction and maintenance, as well as the farming and managing of herds of livestock. "The Gabrieleño are the ones who did all this work, and they really are the foundation of the early economy of the Los Angeles area " . "That's a contribution that Los Angeles has not recognized--the fact that in its early decades, without the Gabrieleño, the community simply would not have survived."*

**From:** THPO Consulting <ACBCI-THPO@aguacaliente.net>
**Sent:** Monday, June 5, 2023 8:33 AM
**To:** 'mblack@ultrasystems.com' <mblack@ultrasystems.com>
**Cc:** soneil@ultrasystems.com
**Subject:** RE: Project 7218 - Cultural Resources Inventory, Centennial High School Aquatic Center Project, Riverside County, California

Greetings,

A records check of the Tribal Historic Preservation Office's cultural registry revealed that this project is not located within the Tribe's Traditional Use Area. Therefore, we defer to the other tribes in the area. This letter shall conclude our consultation efforts.

Thank you,

Xitlaly Madrigal
*Cultural Resources Analyst*
xmadrigal@aguacaliente.net
C: (760) 423-3485 | D: (760) 883-6829
5401 Dinah Shore Drive, Palm Springs, CA 92264

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**From:** Steve Oneil
**To:** THPO Consulting; Megan Black
**Subject:** RE: Project 7218 - Cultural Resources Inventory, Centennial High School Aquatic Center Project, Riverside County, California
**Date:** Monday, June 5, 2023 8:39:29 AM
**Attachments:** image001.jpg
image002.png

Dear Xitlaly Madrigal,

Thank you for your reply on behalf of the Agua Caliente Band of Cahuilla Indians concerning the Centennial High School project. Your response will be included in the cultural resources report.

Best regards,

Steve O'Neil
**Stephen O'Neil | Cultural Resources Manager | M.A./RPA**
**UltraSystems Environmental | WBE/DBE/SBE/WOSB**
16431 Scientific Way
Irvine, CA 92618
Office **949.788.4900 ext. 276**
Fax 949.788.4901
Cell 949.677.2391

**From:** Anadalia Rios
**To:** mblack@ultrasystems.com
**Cc:** soneil@ultrasystems.com
**Subject:** RE: Project 7218 - Cultural Resources Inventory, Centennial High School Aquatic Center Project, Riverside County, California
**Date:** Friday, June 2, 2023 4:37:45 PM
**Attachments:** image002.png
image003.png
image004.png
image005.png
image006.png
image007.jpg
S. O'Neil 06-02-2023.pdf

Hello,

Please see attached for response on the Centennial High School Aquatic Center Project letter received via email.

Thank you,

logo-tribe

Ana Rios
**Administrative Assistant**
Augustine Band of Cahuilla Indians

**Office:** (760) 398-4722 Ext 7498
**Email:** ARios@augustinetribe.com
**Website:** augustinetribe-nsn.gov

**AUGUSTINE BAND OF CAHUILLA INDIANS**
**84-481 Avenue 54, Coachella CA 92236**
**Telephone: (760) 398-4722**
**Fax (760) 369-7161**
**Tribal Chairperson: Amanda Vance**
**Tribal Vice-Chairperson: Victoria Martin**
**Tribal Secretary: Geramy Martin**

Date: 06/02/2023

Dear: Stephen O'Neil, M.A., RPA
Cultural Resources Manager

**Subject**: Cultural Resources Inventory, Centennial High School Aquatic Center, City of Corona, Riverside County, California. Ultra-Systems Environmental Project No. 7218.

Thank you for the opportunity to offer input concerning the development of the above-identified project. We appreciate your sensitivity to the cultural resources that may be impacted by your project and the importance of these cultural resources to the Native American peoples that have occupied the land surrounding the area of your project for thousands of years. Unfortunately, increased development and lack of sensitivity to cultural resources have resulted in many significant cultural resources being destroyed or substantially altered and impacted. Your invitation to consult on this project is greatly appreciated.

At this time, we are unaware of specific cultural resources that may be affected by the proposed project, however, in the event, you should discover any cultural resources during the development of this project please contact our office immediately for further evaluation.

Very truly yours,

Geramy Martin

Geramy Martin, Tribal Secretary
Augustine Band of Cahuilla Indians

**From:** Tribal Historic Preservation Office <thpo@morongo-nsn.gov>

**Sent:** Tuesday, August 8, 2023 1:48 PM

**To:** steve oneil <soneil@ultrasystems.com>

**Cc:** Ann Brierty <ABrierty@morongo-nsn.gov>; Laura Chatterton <lchatterton@morongo-nsn.gov>; Joan Schneider <jschneider@morongo-nsn.gov>

**Subject:** Early Scoping for Centennial High School Aquatic Center

The Morongo Band of Mission Indians (Tribe/MBMI) Tribal Historic Preservation Office is in receipt of your letter regarding the above referenced project. Thank you for reaching out to Tribe at an early stage. The proposed Project is located within the ancestral territory and traditional use area of the Cahuilla and Serrano people of the Morongo Band of Mission Indians.

Tribal cultural resources are non-renewable resources and therefore of high importance to the Morongo Tribe and tribal participation (a.k.a. tribal monitors) is recommended during the cultural resource surveys and future construction phases(s) of the Project. We look forward to working with the Lead Agency and your company to protect these irreplaceable resources out of respect for ancestors of the Morongo people who left them there, and for the people of today and for generations to come.

Projects within this area are highly sensitive for cultural resources regardless of the presence or absence of remaining surface artifacts and features. At the appropriate stage of the Project, our office will request government-to-government consultation under Assembly Bill (AB) 52 (California Public Resources Code § 21080.3.1) with the Lead Agency. At that time, the following will be requested from the Lead Agency to ensure meaningful consultation:

- A records search conducted at the appropriate California Historical Resources Information System (CHRIS) center with at least a 1.0-mile search radius from the project boundary. If this work has already been done, please furnish copies of the cultural resource documentation (reports and site records) generated through this search so that we can compare and review with our records to begin productive consultation.
- Tribal participation (a.k.a. tribal monitors) during the pedestrian survey and testing, if this fieldwork has not already taken place. In the event that archaeological crews have completed this work, our office requests a copy of the current Phase I study or other cultural assessments (including the cultural resources inventory).
- Shape files of the Projects area of effect (APE)
- Geotechnical Report
- Currently proposed Project design and Mass Grading Maps

**This letter neither initiates nor concludes consultation**. Upon the invitation for consultation from the lead agency and receipt of the requested documents, the MBMI THPO may further provide recommendations and/or mitigation measures.

Please keep in mind that MBMI requests that copies of all cultural data such as reports and confidential data (DPRs) and confidential portions of reports be sent to Tribal THPO.

The lead contact for this Project is Bernadette Ann Brierty, Tribal Historic Preservation Officer (THPO). Laura Chatterton, Morongo Cultural Resource Specialist will be assisting the Tribe in the review of this project. Should you have any questions, please do not hesitate to contact us at lchatterton@morongo-nsn.gov thpo@morongo-nsn.gov, ABrierty@morongo-nsn.gov, or (951) 663-2842. The Tribe looks forward to meaningful government-to-government consultation with the Lead Agency.

Respectfully,

**Laura Chatterton**

*Cultural Resource Specialist*

Tribal Historic Preservation Office

Morongo Band of Mission Indians

12700 Pumarra Road

Banning, CA 92220

O: (951) 755.5256

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**From:** Steve Oneil
**To:** Tribal Historic Preservation Office; Megan Black
**Cc:** Ann Brierty; Laura Chatterton; Joan Schneider
**Subject:** RE: 7218 - Early Scoping for Centennial High School Aquatic Center
**Date:** Wednesday, August 9, 2023 10:19:24 AM
**Attachments:** image001.jpg

Good morning Ms. Chatterton,

Thank you for your response on behalf of the Morongo Band of Mission Indians regarding the Centennial High School Aquatic Center Project in Corona. Your information will be included in our cultural resources inventory report.

The Lead Agency is the Corona-Norco Unified School District, which I believe would have contacted the Band back in June 27 this year asking if you wanted to participation the AB 52 process. I will pass along this email from you to them.

Respectfully yours,

**Stephen O'Neil** | Cultural Resources Manager | M.A./RPA

**UltraSystems Environmental** | **WBE/DBE/SBE/WOSB**
16431 Scientific Way
Irvine, CA 92618
Office **949.788.4900 ext. 276**
Fax 949.788.4901
Cell 949.677.2391

# ATTACHMENT D

# CHRIS Records Search Bibliography

## Report List

| Report No. | Other IDs | Year | Author(s) | Title | Affiliation | Resources |
|---|---|---|---|---|---|---|
| RI-04144 | NADB-R - 1085336; Submitter - 324; Voided - MF-4620 | 1998 | LOVE, BRUCE and BAI "TOM" TANG | CULTURAL RESOURCES REPORT: TEMESCAL VALLEY REGIONAL INTERCEPTOR, SANTA ANA WATERSHED PROJECT AUTHORITY, RIVERSIDE COUNTY, CALIFORNIA | CRM TECH | 33-000100, 33-000630, 33-001099, 33-003832, 33-004112 |
| RI-05056 | NADB-R - 1086418; Submitter - 01-02-03-708 | 2003 | MCKENNA ET AL. | A PHASE I CULTURAL RESOURCES INVESTIGATION FOR THE PROPOSED CORONA FEEDER MASTER PLAN PROJECT AREA, RIVERSIDE COUNTY, CALIFORNIA | MCKENNA ET AL | 33-003832, 33-004768, 33-004791, 33-009774 |
| RI-07164 | | 2002 | Curt Duke | Cultural Resource Assessment for Cingular Wireless Facility No. SB 210-02 in Riverside County, California | LSA Associates, Inc. | |
| RI-08043 | Submitter - 1632e | 2008 | Sherri Gust and Amy Glover | Phase I Cultural Resources Assessment Report for the Centennial High School Project in Corona, California | Cogstone Resource Management Inc, Santa Ana, California | |
| RI-08988 | Caltrans - EA: 0F540, PM ORE-91-R14.43/R18.91; RIV-91R0.00/R13.04; RIV-15-35.64/45.14 | 2013 | Susan L. Bupp | Supplemental Archaeological Survey Report For SR-91Corridor Improvement Project, City Of Corona, Riverside County, California, California Department Of Transportation, District 8 | Parsons, California Department of Transportation, District 8 | |
| RI-08989 | Caltrans - EA: 0F540 PM ORA-91-R14.43/RI18.91; RIV-91-R0.00/R13.04 | 2013 | Carrie Chasteen | Supplemental Finding Of No Adverse Effect Report For SR-91 Corridor Improvement Project, City Of Corona, Riverside County, California, California Department Of Transportation, District 8 | Parsons | |
| RI-09320 | | 2014 | Carrie D. Wills | Cultural Resources Records Search and Site Visit Results for Verizon Wireless Candidate 'California', 1180 California Avenue, Corona, Riverside County, California. | First Carbon Solutions | |

## Report List

| Report No. | Other IDs | Year | Author(s) | Title | Affiliation | Resources |
|---|---|---|---|---|---|---|
| RI-10280 | Other - LSA PROJECT NO. CCR1101 | 2011 | ANDREW BELCOURT | CULTURAL RESOURCE ASSESSMENT RECLAIMED WATERLINES SECTION 106 PROJECT CITY OF CORONA RIVERSIDE COUNTY, CALIFORNIA | LSA ASSOCIATES, INC. | 33-000652, 33-000675, 33-000808, 33-001040, 33-001259, 33-001436, 33-001437, 33-001438, 33-001439, 33-001440, 33-001441, 33-001445, 33-001511, 33-001654, 33-001655, 33-002202, 33-002315, 33-002316, 33-003002, 33-003055, 33-003153, 33-003559, 33-003629, 33-003852, 33-004791, 33-005310, 33-005781, 33-007585, 33-007586, 33-007719, 33-008831, 33-008923, 33-012556, 33-012559, 33-012622, 33-013146, 33-013147, 33-013148, 33-013409, 33-013859, 33-014736, 33-015129 |
| RI-10846 | | 2016 | Breana Campbelll-King, Jennifer Haddow, and Lindsay A. Porras | Cultural Resources Technical Memorandum for Phase 2 of the Reclaimed Water Distribution System Project. City of Corona, Riverside County, California | Rincon Consultants, Inc. | |

# APPENDIX D2

# PALEONTOLOGICAL RECORDS SEARCH

# WESTERN SCIENCE CENTER

June 9th, 2023

Megan Black Doukakis
UltraSystems Environmental
16431 Scientific Way
Irvine, CA 92618

Dear Ms. Doukakis,

This letter presents the results of a record search conducted for Centennial High School Aquatic Project located in the City of Corona, Riverside County California. The project site is located west of Rimpau Avenue, east of Fullerton Avenue, and north of Ridgewood Drive on Township 3 South, Range 6 West, Section 31 on the *Corona South, CA* USGS 7.5" quadrangle.

The geologic units underlying this project are mapped as a mix of alluvial gravel from the Holocene and late Pleistocene epochs (Gray, Morton, Weber, Bovard, and O'Brien 2002; Morton and Miller 2006). Holocene alluvial units are considered to be of high preservation value, but material found is unlikely to be fossil material due to the relatively modern associated dates of the deposits. Pleistocene alluvial units are considered to be of high preservation value and are likely to contain fossils. The Western Science Center does not have localities within the project area or within a 1 mile radius.

Any fossil specimens recovered from the Centennial High School Aquatic Project would be scientifically significant. Excavation activity associated with the development of the project area would impact the paleontologically sensitive Pleistocene units, and it is the recommendation of the Western Science Center that a paleontological resource mitigation program be put in place to monitor, salvage, and curate any recovered fossils from the study area.

If you have any questions, or would like further information, please feel free to contact me at bstoneburg@westerncentermuseum.org.

Sincerely,

Brittney Elizabeth Stoneburg, MSc
Collections Manager

# APPENDIX E

# GEOTECHNICAL REPORT

# GEOTECHNICAL INVESTIGATION
# PROPOSED AQUATIC CENTER PROJECT
# CENTENNIAL HIGH SCHOOL
# 1820 RIMPAU AVENUE, CORONA, CALIFORNIA

Prepared For

**CORONA-NORCO**
**UNIFIED SCHOOL DISTRICT**
2020 CLARK AVENUE
NORCO, CALIFORNIA 92860

Prepared By

**LEIGHTON CONSULTING, INC.**
10532 ACACIA STREET, SUITE B-6
RANCHO CUCAMONGA, CALIFORNIA 91730

Project No. 13624.001

September 2, 2022

(Revised February 15, 2023)

Leighton Consulting, Inc.
A Leighton Group Company

September 2, 2022
(Revised February 15, 2023)

Project No. 13624.001

Corona-Norco Unified School District
2820 Clark Avenue
Norco, California 92860

Attention: Ms. Jacquelyn Roberts
Construction Director – Facilities

**Subject: Geotechnical Investigation**
**Proposed Aquatics Center Project**
**Centennial High School, 1820 Rimpau Avenue**
**Corona, California**

In accordance with your request and authorization, Leighton Consulting, Inc. (Leighton) has conducted a geotechnical investigation for the proposed Aquatics Center project at Centennial High School, located at 1820 Rimpau Avenue in the City of Corona, California. The purpose of our study has been to evaluate geologic and geotechnical conditions (including potential geologic hazards) within the area of the proposed improvements, explore subsurface conditions, and provide geotechnical recommendations for design and constructions for the proposed improvements.

Proposed improvements include the modernization or replacement of the existing approximately 2,900-square-foot (SF) locker room, restroom, and pool equipment building; expansion of the existing pool to accommodate a new 50-meter pool; and construction of covered, 220-seat bleachers west of the new pool.

This report presents our findings and conclusions regarding this project. Based upon our study, the proposed improvements are feasible from a geotechnical viewpoint, provided our recommendations presented herein are incorporated into the design and construction of the project. The most significant geotechnical issues for this project

were found to be the potential for strong seismic shaking and shallow compressible soils underlying the site. These and other geotechnical issues are discussed in this report. Revisions made to this report pertain to recommendations and design considerations in accordance with the 2022 California Building Code that went into effect on January 1, 2023.

We appreciate the opportunity to work with Corona-Norco Unified School District on this project. If you have any questions, or if we can be of further service, please call us at your convenience at (909) 484-2205.

Respectfully submitted,

LEIGHTON CONSULTING, INC.




Jose Tapia, PE 91630
Project Engineer




Jason D. Hertzberg, GE 2711
Principal Engineer




Steven G. Okubo, CEG 2706
Associate Geologist

JAT/SGO/LP/JDH/rsm

Distribution: (1) Addressee

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Appendix D - Earthwork and Grading Guide Specifications
Appendix E - CGS Note 48 Checklist with References to this Report

# 1.0 INTRODUCTION

## 1.1 Site Location and Description

The Centennial High School campus is located at 1820 Rimpau Avenue in the City of Corona, California. The existing campus buildings are generally located in the center of the campus, with the parking lots located to the east and northeast, and athletic fields generally located in the western half of the campus (See Figure 2). The campus is bounded by Rimpau Avenue to the east, Fullerton Avenue to the west, and residential homes to the north and south. A site location map showing the school area and regional topography is included in Figure 1.

The proposed swimming pool and associated improvements are located in the northern portion of the campus and bordered to the north and east by existing parking lots, to the west by a smaller faculty parking lot and to the south by a drive isle and an existing campus building beyond. An elevation survey map for the existing fields was not available at this time. Based on elevation data from published topographic maps (e.g., Figure 1), Google Earth's elevation model, and our field observations, the site is relatively flat and generally drains gently to the northeast. The ground elevation at the proposed Aquatic Center project improvement area ranges in elevation from approximately 791 to 786 feet above mean sea level (msl).

## 1.2 Proposed Improvements

Based on *Attachment 2 – Possible Site Layout* provided with *the Limited RFP Number 2021/2022-108 for Geotechnical Services, Centennial HS Aquatics Center Project*, dated March 3, 2022, we understand that the proposed project includes expanding the existing aquatics center located in the northern portion of the school campus. The existing pool complex will be improved to accommodate a new 50-meter pool, covered 220-seat bleachers, and the modernization or replacement of the existing approximately 2,900 square foot (SF) locker room, restroom, and pool equipment building. The new pool will be an expansion of the approximately 8,300 SF existing pool to approximately 9,700 SF. We also understand the project will consist of ancillary flatwork and water quality infiltration system improvements.

Grading plans and architectural renderings were not available at the time of this study. However, based on the relatively flat and level existing topography onsite with the exception of the existing pool, we anticipate the majority of grading to consist of minor cuts and fills (less than 5 feet) to achieve design grades for the proposed improvements. This is a public school project under the jurisdiction of the Division of the State Architect (DSA), to be designed and constructed in accordance with the 2022 California Building Code (CBC).

## 1.3 Purpose of Investigation

The purpose of this study has been to evaluate the geologic and geotechnical conditions, and provide geotechnical recommendations for design and construction of the proposed improvements.

## 1.4 Scope

The scope of our geotechnical investigation has included the following tasks:

- Geologic Hazards Review - We reviewed pertinent, readily available geologic and geotechnical literature covering the site. Our review included regional geologic maps and reports available from our library and online sources. Documents reviewed are listed in the attached *References*.

- Pre-field Investigation Activities - We coordinated with District representatives and Underground Service Alert to have existing underground utilities located and marked prior to our subsurface investigation. We performed a site visit with a District representative to specifically mark and review the boring locations. We also retained the services of a private utility locator to mark existing shallow buried utilities in the boring location areas.

- Field Exploration - Our field investigation included drilling, logging, and sampling of four hollow-stem auger borings (LB-1 through LB-4) at representative locations in the area of the proposed improvements. These borings were drilled to a maximum depth of approximately 51.5 feet below the existing ground surface (bgs). Due to drill rig accessibility constraints within the existing pool deck areas, some of our borings were offset and positioned in accessible areas as close to the proposed improvements. Boring locations were located in existing asphalt-paved areas.

Encountered earth materials were logged in the field by our field representative and described in accordance with the Unified Soil Classification System (ASTM D2488). Relatively undisturbed soil samples were obtained at selected intervals within these borings using both a ring-lined Modified California split-barrel sampler and an unlined, 2-inch outside diameter Standard Penetration Test (SPT) split-spoon sampler. Sampling resistance blow counts were obtained by dropping a 140-pound, automatic-trip hammer through a 30-inch free fall onto a sampling rod anvil. Modified California and SPT samplers were driven 18 inches and the number of blows was recorded for each 6 inches of penetration (ASTM D1586). Representative bulk soil samples were also collected at shallow depths.

Infiltration tests IT-1 and IT-2 were conducted within borings LB-3 and LB-4, which were both located in the western side of the project, within the footprint of the proposed covered bleachers and infiltration facility. Testing was conducted at IT-1 and IT-2 at depths of approximately 26½ and 10 feet bgs, respectively, to estimate infiltration characteristics of the soil tested at those locations and depths. These infiltration tests were conducted in general accordance with Riverside County Guidelines.

Boring logs and infiltration measurements collected in the field are presented in Appendix A, *Geotechnical Boring Logs*. The approximate boring locations are shown on the accompanying Figure 2, *Geotechnical Map*.

- Laboratory Tests - Laboratory tests were conducted on selected relatively undisturbed and bulk soil samples obtained during our field investigation. The laboratory testing program was designed to evaluate engineering characteristics of the onsite soil. Laboratory tests conducted include:

  - In situ moisture content and dry density
  - Atterberg Limits
  - Sieve analysis for grain-size distribution
  - Expansion Index
  - Direct Shear
  - Maximum dry density and optimum moisture content
  - Corrosion Series (pH, electrical resistivity, chloride ion, sulfate ion)

Results of in situ dry density and moisture content tests are presented on the boring logs in Appendix A. Results of the remaining laboratory tests conducted for this and previous studies are provided in Appendix B.

- Engineering Analysis - Data obtained from our background review and field exploration was evaluated and analyzed to provide the geotechnical conclusions and preliminary recommendations presented in the following sections.

- Report Preparation - Results of our geotechnical investigation have been summarized in this report, presenting our findings, conclusions and preliminary recommendations for design and construction of the project.

# 2.0 FINDINGS

## 2.1 Geologic Hazards Review

We have reviewed pertinent, readily available geologic and geotechnical literature covering the site. Our review included regional geologic maps and reports available from our library. Documents reviewed are listed in *References*. Potential geologic hazards are discussed in the following sections. Our review has considered California Geological Survey's Note 48, *Checklist of the Review of Engineering Geology and Seismology Reports for California Public Schools, Hospitals, and Essential Services Buildings*. A copy of the Note 48 checklist is included in Appendix E of this report and has been annotated indicating the applicable sections of this report that address each checklist item.

## 2.2 Regional Geologic Setting

The site is located in the northern Peninsular Ranges geomorphic province of southern California near the junction where the Chino section diverges from the Whittier section of the Elsinore fault zone. Mesozoic plutonic rocks of the southern California Batholith underlie and crop out in this area of the Peninsular Ranges. Northwest-trending, right-lateral, strike-slip faults dominate the structure of the Peninsular Ranges. Located near the northwestern end of the Elsinore trough and the western margin of the Perris block, major structural features within this region include: the Elsinore fault zone and the Santa Ana Mountains to the west, the Temescal Mountains to the west, and the Chino Basin to the north. Several active or potentially active faults have been mapped in the region and are believed to accommodate compressional and lateral crustal displacement from active tectonics associated with the interaction of the North American and Pacific plates along the San Andreas fault zone. The site is located approximately 2.4 miles northeast of the Chino section and approximately 3.0 miles east of the Whittier section of the Elsinore fault zone. The site is also located approximately 26.6 miles southwest of the closest section of the San Andreas fault zone. Figure 5, *Regional Fault and Historical Seismicity Map* shows regional active and potentially active fault traces with respect to the site location.

The site has been mapped as being underlain by Holocene and Late Pleistocene-aged young alluvial fan deposits consisting of unconsolidated silt, sand, cobbles, and boulders. The regional geology of the area is depicted on Figure 3, *Regional Geology Map*.

## 2.3 Subsurface Soil Conditions

During our field exploration, we encountered artificial fill materials underlain by native Quaternary Young Alluvial Fan Deposits. Artificial fill was encountered within our borings underlying existing pavement sections at the site, and typically ranged from 2.5 to 5 feet below existing ground surface. We have presumed that the onsite artificial fill was associated with past grading and development of the school campus. Because documentation regarding the engineering and placement of artificial fill encountered was not available to us for our investigation, we have characterized it as undocumented.

Young Alluvial Fan Deposits encountered underlying undocumented artificial fill within the exploratory borings drilled onsite generally consisted of stiff to hard sandy silts, and clays, and medium dense to very dense gravels, sands, and clayey sands. These soils were visually described as slightly moist to moist to the maximum depths explored.

Laboratory testing indicated that near-surface soils are expected to be generally non-plastic or of very low plasticity. The laboratory-measured in situ dry density of soil samples ranged from approximately 116 to 123 pcf in the upper 10 feet. The laboratory maximum dry density of a near-surface soil sample obtained from boring LB-2 was 139.3 pcf with a 6.5 percent optimum moisture content as determined by ASTM D1557.

More detailed descriptions of the subsurface conditions are presented on the boring logs in Appendix A. Cross-sectional illustrations of encountered subsurface soil conditions are included as Figures 4A and 4B.

### 2.3.1 Compressible and Collapsible Soil

Soil compressibility refers to a soil's potential for settlement when subjected to increased loads, as from a new structure or fill surcharge. Based on our investigation and laboratory testing, the near-surface alluvial soils in the

proposed structure locations are considered slightly compressible, becoming less compressible with depth. Partial removal and recompaction of this material will further reduce the potential for adverse total and differential settlement of the proposed improvements.

Collapse potential (moisture sensitivity, sometimes referred to as 'hydrocollapse') refers to the potential settlement of a soil under existing stresses upon being wetted. Based on the relatively dense nature of the near surface soil, soils are expected to have a low collapse potential.

### 2.3.2 Expansive Soils

Expansive soils contain significant amounts of clay particles that swell considerably when wetted and shrink when dried. Structures constructed on these soils are subjected to large uplifting forces caused by the swelling. Without proper measures taken, heaving and cracking of building foundations and slabs-on-grade could result.

Based on laboratory test results of the recovered near surface soils during our current investigation, onsite soils are expected to have a very low expansion potential.

### 2.3.3 Sulfate Content

Water-soluble sulfates in soil can react adversely with concrete. However, concrete in contact with soil containing sulfate concentrations of less than 0.1 percent by weight is considered to have negligible sulfate exposure based on the American Concrete Institute (ACI) publication 318-14, Section 19.3 (ACI, 2014), adopted by the 2022 CBC (Section 1904A.2).

A representative near-surface soil sample was tested for soluble sulfate content. The result of this test indicated a sulfate content of less than 0.1 percent by weight. As such, the soils exposed at grade are expected to pose negligible potential (Exposure Class S0) for sulfate reaction with concrete.

#### 2.3.4 Resistivity, Chloride and pH

Soil corrosivity to ferrous metals can be estimated by the soil's electrical resistivity, chloride content and pH. In general, soil having a minimum resistivity between 1,000 and 2,000 ohm-cm is considered corrosive, and soil having a minimum resistivity less than 1,000 ohm-cm is considered severely corrosive. Soil with a chloride content of 500 parts-per-million (ppm) or more is considered corrosive to ferrous metals.

As a screening for potentially corrosive soil, soil samples were tested during this investigation to determine their minimum resistivity, chloride content, and pH. These tests indicated a minimum resistivity of 1,999 ohm-cm, a chloride content of 212 ppm, and pH of 7.95. Based on the minimum resistivity, the onsite soil is considered to be severely corrosive to ferrous metals.

## 2.4 Groundwater

Groundwater was not encountered in any of our hollow-stem auger borings during this study, which were excavated to a maximum depth of approximately 51½ feet bgs.

Based on our review of available California Department of Water Resources records of water wells in the area (CDWR, 2022a), it appears that the historically highest groundwater in State Well Number 03S06W31K001S located approximately 2,000 feet northwest of the site with groundwater data collected from 1977 through 2022, indicate that the shallowest recorded groundwater level during that period was on the order of approximately 638 above mean sea level on May 1983, which correlates to a depth of about 148 feet bgs from the lowest elevation at the project site.

## 2.5 Faulting and Seismicity

In general, the primary seismic hazards for sites in the region include surface rupture along active faults and strong ground shaking. The potential for fault rupture and seismic shaking are discussed below.

### 2.5.1 Surface Faulting

One of the primary seismic hazards for this region is surface fault rupture. Our assessment of the possible presence of active faulting through the proposed improvement project site included a review of available literature, maps, and aerial photographs.

The California Geological Survey (CGS) and Riverside County have both mapped the site to be outside of an Earthquake Fault Zone. Additionally, published geologic mapping has not indicated any faults transecting or trending towards the site. No mapped faults or AP zones transect or project through the project site.

The closest mapped active or potentially active fault traces are the Chino section (located 2.4 miles from the site), the Glen Ivy and Whittier sections (located 3.0 miles from the sit) of the Elsinore fault zone. Figure 5, *Regional Fault Map*, shows the locations of known traces of significant faults relative to the location of the project.

### 2.5.2 Seismic Design Parameters

Based on current understanding of local faulting, the principal seismic hazard that could affect the site is ground shaking resulting from an earthquake occurring along several major active or potentially active faults in southern California. The project should be designed in accordance with applicable current building codes and standards utilizing appropriate seismic design parameters intended to reduce seismic risk as defined by California Geological Survey (CGS) Chapter 2 of Special Publication 117A (CGS, 2008). The following are seismic design parameters for new structures based on the 2022 California Building Code (CBC). The map-based seismic parameters presented were obtained from United States Geological Survey in accordance with American Society of Civil Engineers (ASCE) Publication ASCE 7-16 and the 2022 CBC, Chapter 16A.

We assume that the proposed buildings will have a period of 0.5 second or less. As such, Site Class F is not required, and Site Class may be determined in accordance with ASCE 7-16 Section 20.3. If the building period is greater than 0.5 second, site class should be reevaluated.

Based on our evaluation of subsurface data, we have selected Site Class D. A summary of Site Class evaluation is included in Appendix C.

Table 1 – 2022 CBC Seismic Design Parameters

| **2022CBC Parameters (CBC or ASCE 7-16 reference)** | **Value 2022 CBC** |
|---|---|
| Site Latitude and Longitude (degrees): 33.8593, -117.5470 | |
| Site Class Definition (1613A.2.2, ASCE 7-16 Ch 20) | D** |
| Mapped Spectral Response Acceleration at 0.2s Period (1613A.2.1), $S_s$ | 2.032 g |
| Mapped Spectral Response Acceleration at 1s Period (1613A.2.1), $S_1$ | 0.799 g |
| *Short Period Site Coefficient at 0.2s Period (T1613A.2.3(1)), $F_a$* | *1.000* |
| *Long Period Site Coefficient at 1s Period (T1613A.2.3(2)), $F_v$* | *1.700** |
| Adjusted Spectral Response Acceleration at 0.2s Period (1613A.2.3), $S_{MS}$ | 2.032 g |
| Adjusted Spectral Response Acceleration at 1s Period (1613A.2.3), $S_{M1}$ | 1.358* g |
| Design Spectral Response Acceleration at 0.2s Period (1613A.2.4), $S_{DS}$ | 1.354 g |
| Design Spectral Response Acceleration at 1s Period (1613A.2.4), $S_{D1}$ | 0.906* g |
| Mapped *$MCE_G$* peak ground acceleration (11.8.3.2, Fig 22-9 to 13), *PGA* | 0.855 g |
| Site Coefficient for Mapped *$MCE_G$ PGA* (11.8.3.2), $F_{PGA}$ | 1.100 |
| Peak Ground Acceleration, mod w/ site effects (1803A.5.12; 11.8.3.2), $PGA_M$ | 0.940 g |

* See Section 11.4.8 of ASCE 7-16. A site-specific ground motion hazard analysis in accordance with Section 21.2 of ASCE 7-16 is required for this site. **Per Supplement 3 to ASCE 7-16, a site-specific ground motion hazard analysis is not required where the value of the parameters $SM_1$ and $SD_1$ in the table are increased by 50%.**

** Site Class D, and all of the resulting parameters in this table, may only be used for structures without seismic isolation or seismic damping systems.

Based on ASCE 7-16 Equation 11.8-1, the $F_{PGA}$ is 1.1, the PGA is 0.855g, and the $PGA_M$ is 0.940g. As an added check, PGA and hazard deaggregation were also estimated using the United States Geological Survey's (USGS) 2008 Interactive Deaggregations utility. The results of this analysis indicate that the predominant modal earthquake has a PGA of 0.95g with a magnitude of approximately 6.5 ($M_W$) at a distance on the order of 5.0 kilometers for the Maximum Considered Earthquake (2% probability of exceedance in 50 years); 2/3 of this value is 0.633g. Deaggregation results are included in Appendix C.

*Until reviewed and accepted by the California Geologic Survey (CGS), these parameters may be subject to change. Changes may be required as part of the CGS review process.*

### 2.5.3 Historical Seismicity

The *Regional Fault and Historical Seismicity Map* (Figure 5) shows recorded historical regional seismic events (those that have been recorded since the mid-1700s) with respect to the site. Based on this map, it appears that the site has been exposed to relatively significant seismic events; however, this site does not appear to have experienced more severe seismicity than compared to much of southern California in general. We are unaware of documentation that indicates that past earthquake damage in the site vicinity has been significantly worse than for the majority of southern California. In addition, we are unaware of damage in the site vicinity as the result of liquefaction, lateral spreading, or other related phenomena.

## 2.6 Secondary Seismic Hazards

In general, secondary seismic hazards for sites in the region could include soil liquefaction, earthquake-induced settlement, lateral displacement, surface manifestations of liquefaction, landsliding, seiches, and tsunamis. The potential for secondary seismic hazards at the site is discussed below.

### 2.6.1 Liquefaction and Lateral Spreading

Liquefaction is the loss of soil strength or stiffness due to a buildup of pore-water pressure during severe ground shaking. Liquefaction is associated primarily with loose (low density), saturated, fine- to medium-grained, cohesionless soils. Effects of liquefaction can include sand boils, settlement, and bearing capacity failures below structural foundations.

The site has not been evaluated by the State of California for liquefaction hazards. Riverside County (2022) has mapped the site to be in an area with a low liquefaction susceptibility (see Figure 7, *Liquefaction Hazard Map*).

Historical groundwater levels have been estimated to have been as shallow as about 148 feet bgs based on available groundwater data from nearby water monitoring wells. Although we do not anticipate groundwater levels at the site to be this shallow, we have analyzed the potential for liquefaction using a historic high groundwater level of 148 feet bgs.

Our analysis was based on the modified Seed Simplified Procedure as detailed by Youd et al. (2001) and Martin and Lew (1999), which compares the seismic demand on a soil layer (Cyclic Stress Ratio, or CSR) to the capacity of the soil to resist liquefaction (Cyclic Resistance Ratio, or CRR), (Youd et al, 2001). A minimum required factor of safety of 1.3 was used in our analysis, with factor of safety defined as CRR/CSR. As required, our analysis assumes that the design earthquake would occur while the groundwater is at its estimated historically highest level. In the SPT method, soil resistance to liquefaction is estimated based on several factors, including SPT sampling blow counts normalized and corrected for several factors including fines content, and overburden pressure. Soil plasticity and moisture content are also considered in an evaluation of liquefaction. Parameters utilized in our analysis include Standard Penetration Test (SPT) results from the borings, visual descriptions of soil samples retrieved, and geotechnical laboratory test results.

Based on our analysis, potentially liquefiable layers were not encountered at the project site. Due to the relatively dense nature of the underlying soils and deep historic groundwater elevations, the potential for liquefaction onsite (including effects of liquefaction, such as lateral spreading) is considered very low. A summary of our liquefaction analyses is included in Appendix C.

### 2.6.2 Seismically Induced Settlement

Seismically induced settlement consists of dry dynamic settlement (above groundwater) and liquefaction-induced settlement (below groundwater). During a strong seismic event, seismically induced settlement can occur within loose to moderately dense sandy soil due to reduction in volume during and shortly after an earthquake event. Settlement caused by ground shaking is often nonuniformly distributed, which can result in differential settlement.

We have performed analyses to estimate the potential for seismically induced settlement using the method of Tokimatsu and Seed, and based on Martin and Lew (1999), considering the maximum considered earthquake (MCE) peak ground acceleration ($PGA_M$). Design/historic high groundwater levels of 148 feet below ground surface were used in the analysis. Based on our analysis, a potential for approximately 1.5 inches of seismic settlement is estimated at the site; however, based on our overexcavation recommendations presented later in this report, the maximum estimated potential seismic settlement is reduced to approximately 1.0 inch. Results of our seismic settlement analysis is presented in Appendix D.

If the potential differential settlement is estimated as half of the total seismic settlement over a horizontal distance of 30 feet, this would result in a maximum 0.5 inches differential settlement in 30 feet, or angular distortion of 0.0014L, considering the recommended overexcavation. The structural engineer should determine Structure Type and Risk Category and evaluate whether the differential settlement estimates described above are tolerable. A copy of ASCE 7-16 Table 12.13-3 is provided as follows for reference.

**Table 12.13-3 Differential Settlement Threshold**

| Structure Type | Risk Category | | |
|---|---|---|---|
| | I or II | III | IV |
| Single-story structures with concrete or masonry wall systems | 0.0075L | 0.005L | 0.002L |
| Other single-story structures | 0.015L | 0.010L | 0.002L |
| Multistory structures with concrete or masonry wall systems | 0.005L | 0.003L | 0.002L |
| Other multistory structures | 0.010L | 0.006L | 0.002L |

### 2.6.3 Seiches and Tsunamis

Seiches are large waves generated in enclosed bodies of water in response to ground shaking. Tsunamis are waves generated in large bodies of water by fault displacement or major ground movement. Based on the location of the site and its distance from contained water facilities, seiches and tsunamis are not a hazard to the site.

## 2.7 Slope Stability and Landslides

No significant slopes are present or planned near the planned improvements. As such, slope stability evaluation (including development of static and dynamic strength parameters, pseudostatic slope stability coefficients, dynamic site conditions evaluation, and slope stability mitigation) is not warranted for this project.

## 2.8 Flooding and Dam Breach Inundation Potential

Centennial High School is mapped within a "Zone X, Area of Minimal Flood Hazard" designation within FEMA's Flood Map Service Center (FEMA, 2022).

Flooding can also result from the failure of dams. Based on our review of dam breach inundation data by the California Office of Emergency Services (OES), and the California Department of Water Resource's Dam Breach Inundation Map Web Publisher (CDWR, 2022b) the site is not located near dams or in an area shown as susceptible to dam breach inundation.

## 2.9 Other Potential Hazards Listed on CGS Note 48

The following naturally occurring hazards are not believed to exist at the site nor in the region: methane gas, hydrogen-sulfide gas, tar seeps, volcanic eruption, radon-22 gas, and naturally occurring asbestos in geologic formations associated with serpentine.

Centennial High School is not located within an area of land subsidence due to groundwater pumping, peat loss, or oil extraction as identified by the U.S. Geological Survey (USGS, 2022b). We are unaware of significant subsidence or damage from subsidence near the site due to groundwater withdrawal.

## 2.10 Infiltration Testing

Infiltration testing was conducted within two of our borings onsite (LB-3/IT-1 and LB-4/IT-2) to estimate the infiltration characteristics of the onsite soils at the depths and locations tested. The infiltration testing was conducted at a bottom test zone depth of approximately 26½ and 10 feet bgs, respectively.

Well permeameter tests are useful for field measurements of soil infiltration rates, and are suited for testing when the design depth of the basin or chamber is deeper than current existing grades. It should be noted that this is a clean-water, small-scale test, and that correction factors need to be applied. A test consists of excavating a boring to the depth of the test (or deeper as long as it is partially backfilled with soil and a bentonite plug with a thin soil covering is placed just below the design test elevation). A layer of clean sand or gravel is then placed in the boring bottom to temporarily support a perforated well casing pipe system. Once the well casing pipe has been installed, coarse sand or gravel is poured in the annular space outside of the well casing within the test zone to prevent the boring from caving/collapsing or spalling when water is added. Water is added into the boring to an initial water height, as water within the boring infiltrates into the soil, measurements are taken of the height of the water column within the boring at equally timed intervals (known as a falling head test). The infiltration rate as measured during intervals of the test is defined as the flow rate of water infiltrated, divided by the surface area of the infiltration interface. The test was conducted based on the USBR 7300-89 test method.

We also conducted a constant water head by adding water to the borings as water infiltrated into the soil, while maintaining a relatively constant water head in the boring. The incremental infiltration rate as measured during intervals of the test was defined as the incremental flow rate of water infiltrated, divided by the surface area of the infiltration interface. Well permeameter tests were conducted based on USBR 7300-89 method and in general accordance with Riverside County guidelines.

Results of the infiltration testing are summarized below and are provided in Appendix A.

**Infiltration Test Rates**

| Boring | Soil Type | Approx. Test Zone (ft), bgs | Percent Fines (%) | Unfactored Infiltration Rate (in/hr) |
|---|---|---|---|---|
| IT-1 | Clay | 20 to 25 | 67 | 0.1 |
| IT-2 | Sand with Clay and Gravel | 7 to 10 | 11 | 45 |

# 3.0 CONCLUSIONS AND RECOMMENDATIONS

## 3.1 General Conclusions

Based on this investigation, construction of the proposed improvements is feasible from a geotechnical standpoint. No severe geological or geotechnical issues were identified that would preclude construction of the proposed improvements. The most significant geotechnical issues at the site are the potential for strong seismic shaking and potentially compressible near surface soils. Recommendations for design and construction of proposed improvements are provided in the following sections.

The proposed structures will be located within a developed site, and therefore, existing utilities may be encountered during grading. We assume these utilities will be avoided or rerouted; if so, these will then pose no special consideration, provided the excavations are properly backfilled in accordance with our recommendations below. If any existing utilities within or immediately adjacent to the proposed structures (such as within the limits of overexcavation as recommended below) are to remain, these should be further evaluated on a case-by-case basis.

## 3.2 Earthwork and Grading

Grading should be performed in accordance with the General Earthwork and Grading Specifications presented in Appendix D, unless specifically revised or amended below or by future recommendations based on final development plans.

### 3.2.1 Site Preparation

Prior to construction, the areas of the proposed improvements should be cleared of existing pavement, vegetation, trash, and debris. Any underground obstructions onsite that interfere with the proposed foundations should be removed. Trees should be removed and grubbed out. Efforts should be made to locate any existing utility lines. Those lines should be removed or rerouted if they interfere with the proposed construction, and the resulting cavities should be backfilled and compacted as recommended in Sections 3.2.3 and 3.12.

### 3.2.2 Overexcavation and Recompaction

To reduce the potential for adverse total and differential settlement of the proposed structures, the underlying subgrade soil should be prepared in such a manner that a uniform response to the applied loads is achieved.

For the proposed building improvement (if replacement is deemed necessary), covered bleachers, and any retaining walls over 4 feet tall, we recommend that the onsite soils be excavated to a minimum depth of 5 feet below existing ground surface.

To create a stable subgrade for the pool and reduce the potential static differential settlement, overexcavation below the proposed new pool should extend a minimum 5 feet below the existing ground surface, or 2 feet below the bottom of the proposed pool shell, whichever is greater. Prior to scarification and recompaction, the removal bottom for the pool should have a minimum in situ relative compaction of 85 percent of the maximum dry density; if this is not met, the pool overexcavation should be deepened until such in situ relative compaction is achieved.

Where possible, the removal bottoms should extend horizontally beyond the proposed structures a minimum of 5 feet from the outside edges of the footings (including columns connected to the buildings), or a distance equal to the depth of overexcavation below the footings, whichever is farther. Overexcavation for the pool expansion should extend a minimum of 3 feet beyond the proposed pool expansion perimeter. During overexcavation, the soil conditions should be observed by Leighton to further evaluate these recommendations based on actual field conditions encountered. A firm removal bottom should be established across the overexcavation footprint to provide uniform foundation support for the proposed structures. Leighton should observe the removal bottom prior to placing fill. Deeper overexcavation and recompaction may be recommended locally until a firm removal bottom is achieved.

Areas outside of the proposed structures planned for new asphalt or concrete pavement (such as parking areas or fire lanes), flatwork (such as sidewalks), site walls and low retaining walls, areas to receive fill, and other improvements, should be overexcavated to a minimum depth of 18 inches

below existing grade or 12 inches below proposed subgrade (including the footing subgrade for walls), whichever is deeper.

After completion of the overexcavation, and prior to fill placement, the exposed surfaces should be scarified to a minimum depth of 6 inches, moisture conditioned to or slightly above optimum moisture content, and recompacted to a minimum 90 percent relative compaction, relative to the ASTM D1557 laboratory maximum density.

### 3.2.3 Fill Placement and Compaction

The onsite soil is suitable for use as compacted structural fill, provided it is free of debris, organic material and oversized material (greater than 8 inches in largest dimension). Any soil to be placed as fill, whether onsite or imported material, should be accepted by Leighton.

All fill soil should be placed in thin, loose lifts, moisture-conditioned, as necessary, with moisture contents of at least optimum, and compacted to a minimum 90 percent relative compaction as determined by ASTM Test Method D1557. Aggregate base for pavements, and the upper 8 inches of pavement subgrade should be compacted to a minimum of 95 percent relative compaction.

### 3.2.4 Import Fill Soil

If import soil is to be placed as fill, it should be geotechnically accepted by Leighton. Preferably at least 3 working days prior to proposed import to the site, the contractor should provide Leighton pertinent information of the proposed import soil, such as location of the soil, whether stockpiled or native in place, and pertinent geotechnical reports if available. We recommend that a Leighton representative visit the proposed import site to observe the soil conditions and obtain representative soil samples. Potential issues may include soil that is more expansive than onsite soil, soil that is too wet, soil that is too rocky or too dissimilar to onsite soils, oversize material, organics, debris, etc.

The owner should require proper documentation that soils imported to the project site are suitable for use at the school site from an environmental standpoint. The import soils should be evaluated and/or tested, as appropriate, for environmental suitability based on the *Information Advisory – Clean Imported Fill* (Department of Toxic Substances Control, October 2001 or more current edition). The documentation indicating the soils are suitable for use should be provided to the project construction manager prior to intended import to the site. Leighton can provide these services to the District, but the contractor must give Leighton adequate time to properly evaluate the material prior to import–a minimum of 5 working days (laboratory rush charges would apply), but preferably 7 working days or more. The contractor should provide Leighton pertinent information, such as the amount and location of the soil, whether stockpiled or native in place, soil owner contact information, and pertinent environmental reports, if available

### 3.2.5 Shrinkage and Subsidence

The change in volume of excavated and recompacted soil varies according to soil type and location. This volume change is represented as a percentage increase (bulking) or decrease (shrinkage) in volume of fill after removal and recompaction. Field and laboratory data used in our calculations included laboratory-measured maximum dry densities for soil types encountered at the subject site and the measured in-place densities of soils encountered. We preliminarily estimate the following earth volume changes will occur during grading. These are rough estimates:

| | |
|---|---|
| Shrinkage (Approximate) | 10% ± 3% |
| Subsidence (Approximate) | 0.1 foot |

The level of fill compaction, variations in the dry density of the existing soils and other factors influence the amount of volume change.

It should be noted that subsidence, as referred to above, is settlement of in-place earth materials due to heavy equipment processing. It does not refer to potential settlement due to placement of additional loads from new fill (i.e., rising of grades).

These shrinkage values are general guide values. Actual values will vary, due to the varying soil conditions and varying construction techniques. It is not possible to estimate exact values. Therefore, as with any grading project, some earthwork volume adjustments should be anticipated during grading.

### 3.2.6 Excavations in Proximity to Existing Structures

Excavations planned adjacent to existing structures should be conducted with care. Trench excavations, overexcavations, and utilities should not be allowed approximately parallel to and within close proximity to footings, as described in 2022 CBC 1809A.14 (i.e., within a 2:1 horizontal to vertical projection from 9 inches above the bottom of an existing or proposed foundation), unless such case is reviewed by the Geotechnical Engineer. In areas where an excavation is planned adjacent to other surface improvements, excavations should not come closer than a 1.5:1 projection extending from the ground surface at the location of the existing improvement, unless such case is reviewed by the Geotechnical Engineer. Temporary excavations above such projections are anticipated to be acceptable.

If a portion of an excavation is planned to extend below the projections described above, this should be reviewed on a case-by-case basis. Depending on the actual conditions (such as depth of planned excavation, horizontal distance from the structure, depth of the as-built foundation conditions, etc.), the excavation may be possible by making a series of adjacent slot cut excavations perpendicular to the buildings in a sequential 'ABC' method, limiting the width of excavation adjacent to existing buildings at any given time and reducing the potential for undermining the existing structure. The maximum width and depth of the slot cuts should be based on the specific conditions of the planned excavations and the soil conditions. The excavations should be no deeper than necessary and should be left open for as short a period as feasible. For slot cuts up to five feet in depth, the maximum allowable width shall be limited to 8 feet. Cuts deeper than 5 feet should be reviewed by Leighton prior to excavations. Backfill of these slot cut excavations should be compacted to a minimum of 95 percent relative compaction as determined by ASTM Test Method D1557.

## 3.3 Foundations

Conventional shallow foundations may be used to support the loads of the proposed structures. Overexcavation and recompaction of the footing subgrade soil should be performed as detailed in Section 3.2.2.

The following recommendations are based on the onsite soil conditions and soils with a very low expansion potential.

### 3.3.1 Minimum Embedment and Width

Based on our investigation, conventional footings for the proposed one-story structures should have a minimum embedment of 12 inches, with a minimum width of 24 and 15 inches for isolated and continuous footings, respectively.

### 3.3.2 Allowable Bearing

An allowable bearing pressure of 2,000 pounds-per-square-foot (psf) may be used, based on the minimum embedment depth and width above. This allowable bearing value may be increased by 250 psf per foot increase in depth or width to a maximum allowable bearing pressure of 3,000 psf. These allowable bearing pressures are for total dead load and sustained live loads. Footing reinforcement should be designed by the structural engineer.

### 3.3.3 Lateral Load Resistance

Soil resistance available to withstand lateral loads on a shallow foundation is a function of the frictional resistance along the base of the footing and the passive resistance that may develop as the face of the structure tends to move into the soil. The frictional resistance between the base of the foundation and the subgrade soil may be computed using an allowable coefficient of friction of 0.35. The passive resistance may be computed using an allowable (factor of safety of 1.5 applied) equivalent fluid pressure of 260 pounds per cubic foot (pcf), assuming there is constant contact between the footing and undisturbed soil. Friction and passive pressure may be combined without reduction, provided it is acceptable that the

footings move laterally sufficiently to develop passive pressure (approximately ¼ inch); otherwise, friction alone should be assumed.

### 3.3.4 Increase in Bearing and Friction – Short Duration Loads

For the case of short term loading (seismic and wind loading), an increase of 1/3 would apply to the bearing pressure and friction values. The ultimate bearing pressure is assumed to be roughly three times the allowable bearing pressure. However, this ultimate pressure only considers structural failure/collapse (life safety) and not structural damage or significant cosmetic damage. Excessive settlement is anticipated to occur well before the ultimate bearing pressure is attained.

### 3.3.5 Settlement Estimates

The recommended overexcavation, relative compaction and allowable bearing pressure are based on a total allowable, post construction settlement of 1 inch. Differential settlement due to static loading is estimated at approximately ½ inch over a horizontal distance of 40 feet between or along similarly loaded footings. Since settlement is a function of footing sustained load, size and contact bearing pressure, differential settlement can be expected between adjacent columns or walls where a large differential loading condition exists.

Seismic differential settlement is estimated to be approximately 0.5 inch in 30 feet, or angular distortion of 0.0014L for the design earthquake.

For the proposed pool, differential settlement due to static loading is estimated at ¼ inch over the length of the pool, since significant additional loading on soils under the pool (compared to current loading conditions) is not anticipated. This differential static settlement is based on the overexcavation recommendations above. It should be recognized that the pool is subject to additional potential differential settlement during a large earthquake as previously mentioned (0.5 inch over 30 feet).

## 3.4 Recommendations for Slabs-On-Grade

Concrete slabs-on-grade should be designed by the structural engineer in accordance with the current CBC for a soil with a very low expansion potential.

Observation and possibly testing to confirm the expansion potential of the near surface soil should be conducted during site grading.

The following minimum slab recommendations should be used. More stringent requirements may be required by agencies, the structural engineer, the architect, or the CBC. Slabs-on-grade should have the following minimum recommended components:

- Subgrade Moisture Conditioning: The subgrade soil should be moisture conditioned to at least 2 percentage points above optimum moisture content to a minimum depth of 12 inches prior to placing steel or concrete.
- Concrete Thickness and Structural Design: Slabs-on-grade should be designed by the structural engineer, but should be at least 4 inches thick (this is referring to the actual minimum thickness, not the nominal thickness). Reinforcing steel should be designed by the structural engineer, but as a minimum (for conventionally reinforced slabs) should be No. 4 rebar placed at 18 inches on center, each direction, mid-depth in the slab.

Minor cracking of the concrete as it cures, due to drying and shrinkage is normal and should be expected. However, cracking is often aggravated by a high water/cement ratio, high concrete temperature at the time of placement, small nominal aggregate size, aggregate that is not sufficiently clean, and rapid moisture loss due to hot, dry, and/or windy weather conditions during placement and curing. Cracking due to temperature and moisture fluctuations can also be expected. Low slump concrete can reduce the potential for shrinkage cracking. Additionally, reinforcement in slabs and foundations can generally reduce the potential for shrinkage cracking. The structural engineer should consider these and other pertinent concrete design and construction considerations in slab design and specifications.

### 3.4.1 Slab Underlayment for Moisture Vapor Retarding

Because moisture vapor from the underlying soils will be transmitted through slabs-on-grade without preventive measures, slab underlayment for moisture vapor retarding should be designed by qualified professionals (such as the structural engineer and/or architect) where control of moisture vapor transmission through slabs is considered important to this project (such as where moisture-sensitive floor coverings or equipment are

planned). Slab underlayment typically includes a moisture vapor retarder membrane (such as 10-mil thick or greater), and provisions for protection of the vapor retarder during construction. The structural engineer and/or architect should specify pertinent slab and concrete design parameters, such as whether a sand blotter layer should be placed over the vapor retarder.

Moisture retarders can reduce, but not eliminate moisture vapor rise from the underlying soils up through the slab. Moisture retarders should be designed and constructed in accordance with applicable American Concrete Institute, Portland Cement Association, Post-Tensioning Institute, ASTM International, and California Building Code requirements and guidelines.

Leighton does not practice in the field of moisture vapor transmission evaluation/mitigation, since this does not fall under the geotechnical discipline. Therefore, we recommend that a qualified person, such as the flooring subcontractor, structural engineer, and/or architect, be consulted to evaluate the general and specific moisture vapor transmission paths and any impact on the proposed construction. That person (or persons) should provide recommendations for mitigation of potential adverse impact of moisture vapor transmission on various components of the structures as deemed appropriate. In addition, the recommendations in this report and our services in general are not intended to address mold prevention, since we, along with geotechnical consultants in general, do not practice in the area of mold prevention. If specific recommendations are desired, a professional mold prevention consultant should be contacted.

## 3.5 Seismic Design Parameters

In order to reduce the effects of ground shaking produced by regional seismic events, seismic design should be performed in accordance with the current CBC. The seismic design parameters listed in Table 1 of Section 2.5.2 of this report should be considered for the seismic analysis of the subject site.

## 3.6 Lateral Earth Pressures

The following retaining wall recommendations are included for design consideration of walls with a height less than 12 feet. We recommend that retaining walls be backfilled with very low expansive soil and constructed with a backdrain in accordance with the recommendations provided on Figure 9, *Retaining Wall Backfill and Subdrain Detail*. Using expansive soil as retaining wall backfill will result in higher lateral earth pressures exerted on the wall and are, therefore, not recommended. Retaining wall locations and configurations are unknown at the time of this report.

Table 2 – Retaining Wall Design Parameters

| **Static Equivalent Fluid Pressure (pcf)** | |
|---|---|
| Condition | Level Backfill |
| Active | 35 |
| At-Rest (drained, compacted-fill backfill) | 55 |
| Passive (ultimate) | 390<br>(Max. 5,000 psf) |

The above values do not contain an appreciable factor of safety, so the structural engineer should apply the applicable factors of safety and/or load factors during design.

Cantilever walls that are designed to yield at least 0.001H, where H is equal to the wall height, may be designed using the active condition. Rigid walls and walls braced at the top should be designed using the at-rest condition.

Passive pressure is used to compute soil resistance to lateral structural movement. In addition, for sliding resistance, a frictional resistance coefficient of 0.35 may be used at the concrete and soil interface. The lateral passive resistance should be taken into account only if it is ensured that the soil providing passive resistance, embedded against the foundation elements, will remain intact with time. A soil unit weight of 120 pcf may be assumed for calculating the actual weight of the soil over the wall footing.

In addition to the above lateral forces due to retained earth, surcharge due to improvements, such as an adjacent structure or traffic loading, should be

considered in the design of the retaining wall. Loads applied within a 1:1 projection from the surcharging structure on the stem of the wall should be considered in the design. A third of uniform vertical surcharge-loads should be applied at the surface as a horizontal pressure on cantilever (active) retaining walls, while half of uniform vertical surcharge-loads should be applied as a horizontal pressure on braced (at-rest) retaining walls. To account for automobile parking surcharge, we suggest that a uniform horizontal pressure of 100 psf (for restrained walls) or 70 psf (for cantilever walls) be added for design, where autos are parked within a horizontal distance behind the retaining wall less than the height of the retaining wall stem.

For walls with a retained height over 6 feet, or where otherwise required by Code or deemed appropriate by the structural engineer, we recommend that the wall designs be checked seismically using an additive seismic Equivalent Fluid Pressure (EFP) of 27 pcf, which is added to the active EFP. Such walls that are to be designed in the static case assuming the at-rest condition should be checked seismically using this additive seismic EFP added to the active condition (i.e., the additive seismic EFP is not added to the at-rest EFP). The additive seismic EFP should be applied with a standard EFP pressure distribution (i.e., it is not an inverted triangle).

Conventional retaining wall footings should have a minimum width of 24 inches and a minimum embedment of 12 inches below the lowest adjacent grade. An allowable bearing pressure of 2,000 psf may be used for retaining wall footing design, based on the minimum footing width and depth. This bearing value may be increased by 250 psf per foot increase in width or depth to a maximum allowable bearing pressure of 3,000 psf.

## 3.7 Pole Foundations

Lateral bearing resistance for light standard pile foundations may be based on an allowable lateral earth pressure of Class of Material 5 on Table 1806A.2 of the 2022 CBC, which can be doubled in accordance with 1806A.3.4, and ignoring the upper 18 inches of soil in non-paved areas. This lateral bearing value assumes that the pole can tolerate at least a 0.5-inch deflection at the ground surface due to short term loading. Lateral bearing resistance should be computed in accordance with Section 1807A.3.2 of the CBC. These recommendations assume that the foundations will be embedded against firm intact soil.

We recommend an allowable axial resistance in compression for these foundations consisting of 100 psf for allowable skin friction, ignoring the bottom one diameter, and an allowable end bearing of 1,500 psf (assuming a cleaned-out bottom). We recommend that piles be at least 4 pile diameters long.

As an alternative, the following parameters may be used in lateral loading analysis of concrete caisson piles: effective unit weight of 120 pcf, friction angle of 30 degrees, and k value of 30 pci. These parameters are intended for analysis such as with the Ensoft LPILE program, which solves the beam on elastic foundation problem using independent nonlinear lateral springs, commonly referred to as p-y curves, to model the relationship between soil resistance and pile deflection. Additional parameters to be considered by the structural engineer for lateral pile analysis include head fixity, allowable deflection, and section bending stiffness assuming concrete cracking.

These values are for isolated single piles. A group action reduction in capacity would apply for closely spaced piles.

## 3.8 Cement Type and Corrosion Protection

Based on the results of laboratory testing, concrete structures in contact with the onsite soil will have negligible exposure to water-soluble sulfates in the soil. Therefore, common Type II cement may be used for concrete construction. Concrete should be designed in accordance with ACI 318-14, Section 4.2 (ACI, 2014), adopted by the 2022 CBC (Section 1904A.2).

Based on our laboratory testing, the onsite soil is considered corrosive to ferrous metals. Metallic utilities should be avoided, or typical corrosion protection of underground metallic utilities should be provided. Corrosion information presented in this report should be provided to your underground utility contractors.

## 3.9 Pavement Design

Based on the design procedures outlined in the current Caltrans Highway Design Manual, and an R-value of 40 for compacted subgrade soils, preliminary flexible pavement sections may consist of the following for the Traffic Indices (TI) indicated.

Table 3 – Asphalt Pavement Section Thickness

| Traffic Index | Asphaltic Concrete (AC) Thickness (inches) | Class 2 Aggregate Base (AB) Thickness (inches) |
|---|---|---|
| 5 or less (auto access) | 3.0 | 4.0 |
| 7 (bus/truck access) | 4.0 | 7.0 |

If asphalt pavement is to be constructed prior to construction, the full pavement thickness should be placed to support heavy construction traffic.

In areas where rigid concrete pavement is planned and trucks may drive on this pavement, we recommend 6.5 inches of Portland Cement Concrete (PCC) with a 28-day compressive strength of 4,000 psi over 4 inches of aggregate base placed on prepared subgrade soil (see Section 3.2.2). Reinforcement should be specified by the structural engineer, but should be a minimum of #3 rebar at 18 inches on center each way. The PCC pavement sections should be provided with crack-control joints spaced no more than 12 feet on center each way. If sawcuts are used, they should have a minimum depth of ¼ of the slab thickness and made within 24 hours of concrete placement. We recommend that sections be as nearly square as possible.

PCC sidewalks should be at least 4 inches thick over prepared subgrade soil, with construction joints no more than 8 feet on center each way, with sections as nearly square as possible. Use of reinforcing will help reduce severity of cracking.

All pavement construction should be performed in accordance with the Standard Specifications for Public Works Construction. Field observations and periodic testing, as needed during placement of the base course materials, should be undertaken to ensure that the requirements of the standard specifications are fulfilled. Prior to placement of aggregate base, the subgrade soil should be processed to a minimum depth of 6 inches, moisture-conditioned, as necessary, and recompacted to a minimum of 95 percent relative compaction. Aggregate base should be moisture conditioned, as necessary, and compacted to a minimum of 95 percent relative compaction.

## 3.10 Swimming Pool Recommendations

Recommended design criteria for the proposed swimming pool are presented below.

- Observation/testing should be performed by a Leighton representative during pool excavation to verify that exposed soil conditions are consistent with the design assumptions.
- Heavy-duty pipes and couplings should be used for the pool plumbing system to minimize leaking, which may produce additional localized high pressures on the pool shell.
- Installation of a pressure release valve system beneath the pool bottom is recommended.
- Additional loading due to buildings or structures should be taken into consideration for design of portions of the pool shell below the plan projected downwards at a 1:1 slope from the near edge of adjacent foundations.
- To reduce the potential for excessive cracking, the pool deck concrete slabs should be a minimum of 4 inches thick and provided with construction or weakened plane crack-control joints at frequent intervals (e.g., every 6 feet or less). Crack control joints should form approximately square panels without reentrant corners. Crack control joints should not be terminated in the middle of a deck/slab, but should continue from edge to edge. Reinforcement of slabs, such as No. 3 at 18 inches on center, both directions, may be considered to further reduce unsightly cracking.
- Decking level should be designed and constructed to a minimum of 2 inches below the weep screed level, and should be separated from the foundations with a minimum separation of ½ inch (such as with felt of Styrofoam-filled, mastic capped joint).

## 3.11 Temporary Excavations

All temporary excavations, including utility trenches, retaining wall excavations and other excavations should be performed in accordance with project plans, specifications and all OSHA requirements, and the current edition of the California Construction Safety Orders, latest edition.

No surcharge loads should be permitted within a horizontal distance equal to the height of cut or 5 feet, whichever is greater from the top of the slope, unless the cut is shored appropriately. Excavations that extend below an imaginary plane inclined at 45 degrees below the edge of any adjacent existing site foundation should be properly shored to maintain support of the adjacent structures.

Cantilever shoring should be designed based on the active fluid pressure presented in the retaining wall section. If excavations are braced at the top and at specific design intervals, the active pressure may then be approximated by a rectangular soil pressure distribution with the pressure per foot of width equal to 26H, where H (feet) is equal to the depth of the excavation being shored.

During construction, the soil conditions should be regularly evaluated to verify that conditions are as anticipated. The contractor should be responsible for providing the "competent person" required by OSHA, standards to evaluate soil conditions. Close coordination between the competent person and Leighton Consulting should be maintained to facilitate construction while providing safe excavations.

## 3.12 Trench Backfill

Utility-type trenches onsite can be backfilled with onsite material, provided it is free of debris, significant organic material and oversized material (greater than 3 inches for trench backfill within 3 feet of a pipe, and 6 inches for trench backfill above).

Prior to backfilling the trench, pipes should be bedded and shaded in a granular material that has a sand equivalent of 40 or greater. We recommend that open-graded crushed rock or similar material not be used as bedding material, unless special provisions are implemented to limit the migration of surrounding soil into the open-graded material, including surrounding the open-graded material with filter fabric (Mirafi 140N or equivalent), or mixing sand with the open-graded material. The bedding material should extend 12 inches above the top of the pipe. The bedding/shading sand should be densified in-place by mechanical means, or in areas where the trench walls and bottom soil have a minimum sand equivalent of 15, the bedding sand may be jetted. Bedding sand should be placed in accordance with the Standard Specifications for Public Works Construction – Greenbook (Public Works Standard, Inc.), current edition.

The native soil fill should be placed in loose layers, moisture conditioned, as necessary, and mechanically compacted using a minimum standard of 90 percent relative compaction based on ASTM D1557. The thickness of layers should be based on the compaction equipment used in accordance with the current Greenbook.

## 3.13 Surface Drainage

Positive surface drainage should be provided to direct surface water away from structures and towards suitable collective drainage facilities. Surface drainage should be provided to prevent ponding of water adjacent to the structures. In general, the area around the buildings should slope away from the buildings. Care should be taken to avoid heavy irrigation, and under-irrigation should also be avoided.

## 3.14 Infiltration Recommendations

We recommend that the onsite artificial fill not be relied upon for infiltration. Although variability was encountered in the soils throughout the site, more granular soils consisting of gravel with sand were encountered on the eastern portion of the pool site at a general depth of 30 to 40 feet bgs. It is anticipated that this granular layer also extends to the area west of the pool. Shallow soils are anticipated to have low infiltration due to the variability of conditions encountered and high amounts of clay. Therefore, we recommend that infiltration at this site be achieved by utilizing dry wells in order to infiltrate into the gravel layers generally encountered at a depth of 30 feet. For this gravel layer starting at 30 feet, we recommend an unfactored (small-scale) infiltration rate of 10 inches per hour. We recommend that dry well infiltration systems extend a minimum of 35 feet below current grades. Geotechnical conditions should be verified during dry well construction.

If shallow infiltration systems such as chambers, basins or swales are planned, then additional infiltration testing should be conducted at the proposed shallow infiltration system location and anticipated invert depth, due to variable site conditions.

We recommend that a correction factor/safety factor be applied to the infiltration rate in conformance with Riverside County guidelines, since monitoring of actual

facility performance has shown that actual infiltration rates are lower than measured in small-scale tests. Infiltration basins are subject to siltation, which can result in reduced infiltration rates. *This small-scale infiltration rate should be divided by a design factor of at least 3 for buried chambers and at least 4 for open basins; although the design/safety factor may be higher based on project-specific aspects.* It should be noted that during periods of prolonged precipitation, underlying soils tend to become saturated to greater depths/extent. Therefore, infiltration rates tend to decrease with prolonged rainfall.

Based on our testing, infiltration appears to be feasible but dependent upon location and depth of infiltration due to the variances in soil composition encountered at the site.

Some design considerations are presented in the following paragraphs:

- **Adjacent Structure Impact**: As infiltrating water can seep within soil strata partially horizontally, it is important to consider impact that infiltration facilities can play on nearby subterranean structures, such as basement walls or open excavations, whether onsite or offsite, and whether existing or planned. Any such nearby features should be identified and evaluated as to whether infiltrating water can impact these facilities. Infiltration facilities should not be constructed adjacent to or under buildings. Setbacks should be discussed with Leighton during the planning process, but a building setback of at least 15 feet horizontally is initially suggested.

- **Infiltration Basins Type and Geometry**: Further testing may be required depending on final design of infiltration facilities. Infiltration rates are anticipated to vary based on location and depth. Infiltration concepts should be discussed with Leighton as infiltration plans are being developed. We should review all infiltration plans, including locations and depths of proposed facilities. Further testing may be required depending on infiltration facilities design details, particularly considering type, depth and location.

- **Siltation and Soil Changes**: These infiltration rates are for a clean, un-silted infiltration surface in native, sandy alluvial soil. These values may be reduced over time as silting of the basin or chamber occurs. Furthermore, if the basin or chamber bottom is allowed to be compacted by heavy equipment, this value is expected to be reduced. Infiltration of water through soil is highly

dependent on such factors as grain size distribution of soil particles, gradation (uniform versus well graded), particle shape, fines content and density. Small changes in soil conditions, including density, can cause large differences in observed infiltration rates. Infiltration is not suitable in compacted fill. For open basins and swales, vegetation within the basin bottoms and sides is expected to help reduce erosion and help maintain infiltration rates.

- **De-silting Weir/Facilities**: Periodic flow of water carrying sediments into the basin or chamber, plus deposition of fine wind-blown sediments and sediments from erosion of basin side walls, will eventually cause the basin bottom or chamber to accumulate a layer of silt, which has the potential to significantly reducing the overall infiltration rate of the basin or chamber. Therefore, we recommend that significant amounts of silt/sediment not be allowed to flow into the facility within stormwater, especially during construction of the project and prior to achieving a mature landscape onsite. We recommend that an easily maintained, robust silt/sediment removal system be installed to pretreat storm water before it enters the infiltration facility. Infiltration facilities should be constructed with spillways or other appropriate means that would prevent overfilling that could damage the facility or adjacent improvements.

- **Drainage/Infiltration Time Cycle**: In general, the rate of infiltration reduces as the head of water in the infiltration facility reduces, and it also reduces with prolonged periods of infiltration. As such, water typically infiltrates much faster near the beginning of and/or immediately after storm events than at times well after a storm when the water level in the facility has receded, since the infiltration rate is then slower due to both lower head and longer overall duration of infiltration. In open basins with compacted or silty bottoms, this could be problematic, in that even if the basin had already infiltrated significant amounts of storm water, the lower several inches or feet of water could remain in the basin for an extended period of time, creating prolonged open-water safety concern (such as potential for mosquitos and waterborne diseases, algae odor, etc.). In a buried/cover infiltration chamber, these conditions would be of less concern.

- **Maintenance**: Infiltration facilities should be routinely monitored, especially before and during the rainy season, and corrective measures should be implemented if and as needed. Things to check for include removal of trash

or dumping, proper infiltration, absence of accumulated silt, and that de-silting filters/features are clean and functioning. Pretreatment desilting features should be cleaned and maintained as recommended by the manufacturer or designer. Even with measures to prevent silt from flowing into the infiltration facility, accumulated silt may need to be removed.

## 3.15 Limitations and Additional Geotechnical Services

The geotechnical recommendations presented in this report are based on subsurface conditions as interpreted from limited subsurface explorations and limited laboratory testing. Our geotechnical recommendations provided in this report are based on information available at the time the report was prepared and may change as plans are developed. However, additional geotechnical study and analysis may be required based on final development plans. Leighton Consulting should review the site and grading plans when available and comment further on the geotechnical aspects of the project. Geotechnical observation and testing should be conducted during excavation and all phases of grading operations. Our conclusions and preliminary recommendations should be reviewed and verified by Leighton Consulting during construction and revised accordingly if geotechnical conditions encountered vary from our findings and interpretations. Changes in subsurface conditions can and do occur over time. Therefore, our findings, conclusions, and recommendations presented in this report are based on the assumption that Leighton Consulting will provide geotechnical observation and testing during construction. Please refer to the GBC “Important Information about This Geotechnical Engineering Report” presented at the end of this report.

Environmental services were not included as part of this study. This report was prepared for the sole use of Corona-Norco Unified School District for application to the design of the proposed project in accordance with generally accepted geotechnical engineering practices at this time in California.

Geotechnical observation and testing should be provided:

- After completion of site demo/clearing.
- During overexcavation of compressible soil.
- During compaction of all fill materials.
- After excavation of all footings and prior to placement of concrete.
- During utility trench backfilling and compaction.
- During pavement subgrade and base preparation.
- When any unusual conditions are encountered.

***Until reviewed and accepted by the California Geologic Survey (CGS), this report may be subject to change. Changes may be required as part of the CGS review process. Leighton Consulting, Inc. assumes no risk or liability for consequential damages that may arise due to design work progressing before this report is reviewed and accepted by CGS.***

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| | |
|---|---|
| Project: 13624.001 | Eng/Geol: JDH/SGO |
| Scale:1 " = 2,000 ' | Date: August 2022 |

Reference: © 2022 Microsoft Corporation © 2022 Maxar ©CNES (2022) Distribution Airbus

# SITE LOCATION MAP

Aquatic Center Project
Centennial High School
1820 Rimpau Avenue, Corona, California

**FIGURE 1**

Leighton

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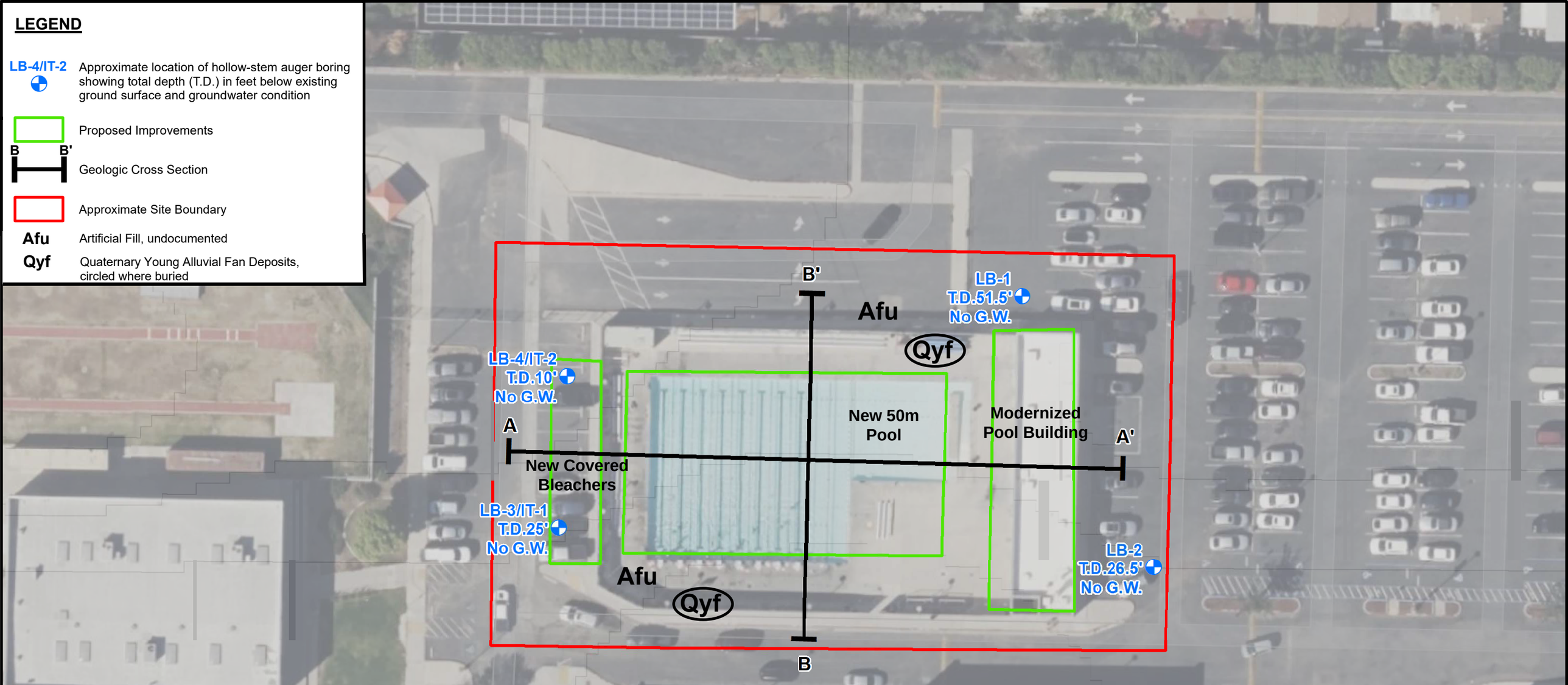
## LEGEND

| | |
|---|---|
| LB-4/IT-2 | Approximate location of hollow-stem auger boring showing total depth (T.D.) in feet below existing ground surface and groundwater condition |
| | Proposed Improvements |
| B B' | Geologic Cross Section |
| | Approximate Site Boundary |
| Afu | Artificial Fill, undocumented |
| Qyf | Quaternary Young Alluvial Fan Deposits, circled where buried |




N

0 40 80

Feet

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|---|---|
| Project: 13624.001 | Eng/Geol: JDH/SGO |
| Scale:1 " = 40 ' | Date: August 2022 |

Reference: Conceptual Site Plan, Sheet A1-0
Date: March 5, 2022 by Rexford Industrial Realty

# GEOTECHNICAL MAP

Aquatic Center Project
Centennial High School
1820 Rimpau Avenue, Corona, California

**FIGURE 2**

Leighton

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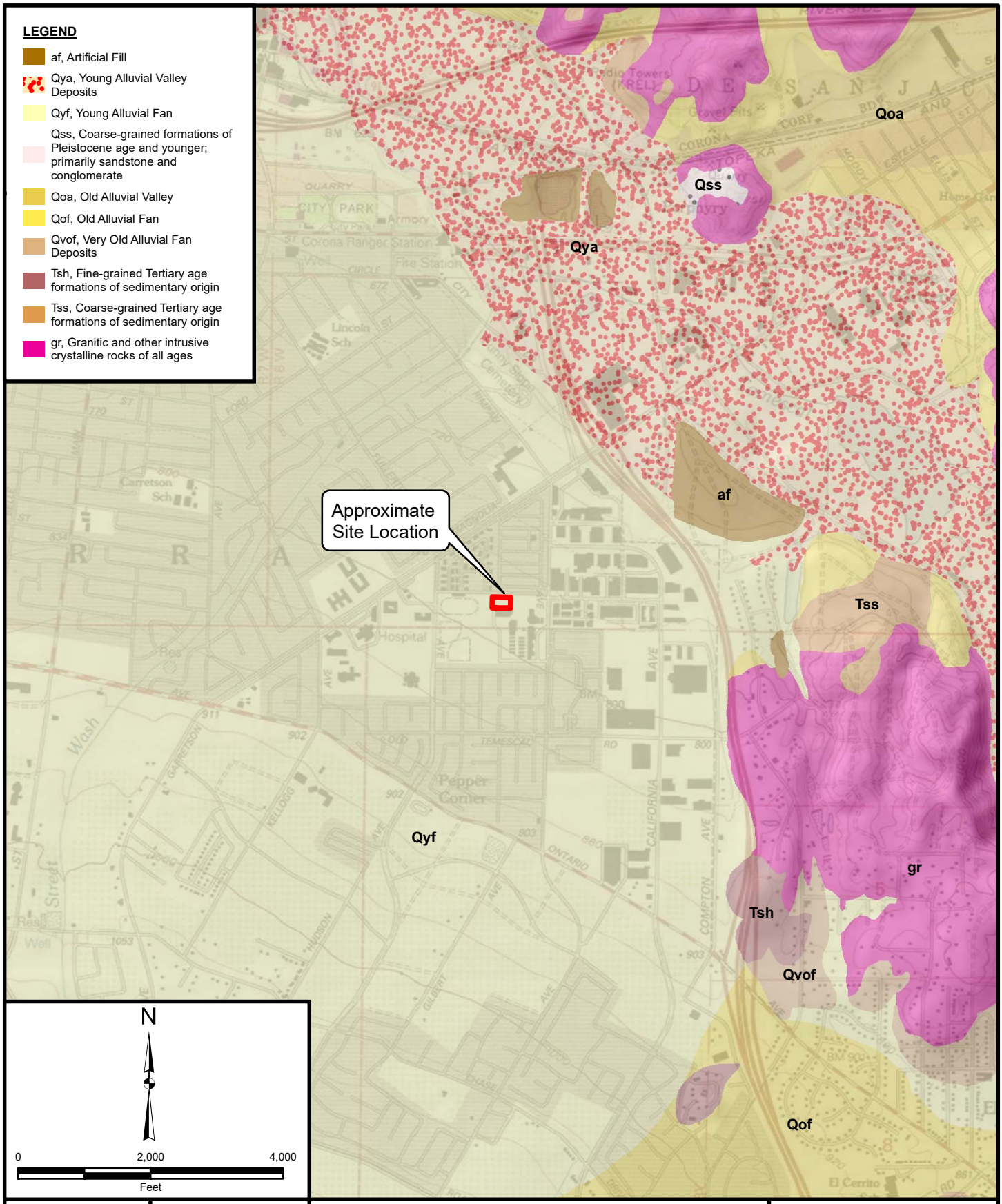


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|---|---|
| Project: 13624.001 | Eng/Geol: JDH/SGO |
| Scale: 1 " = 2,000 ' | Date: August 2022 |

Reference: Geologic Compilation of Quaternary Surficial Deposits in Southern California, Orange County, Bedrossian et. al., 2010

# REGIONAL GEOLOGY MAP

Aquatic Center Project
Centennial High School
1820 Rimpau Avenue, Corona, California

**FIGURE 3**

Leighton

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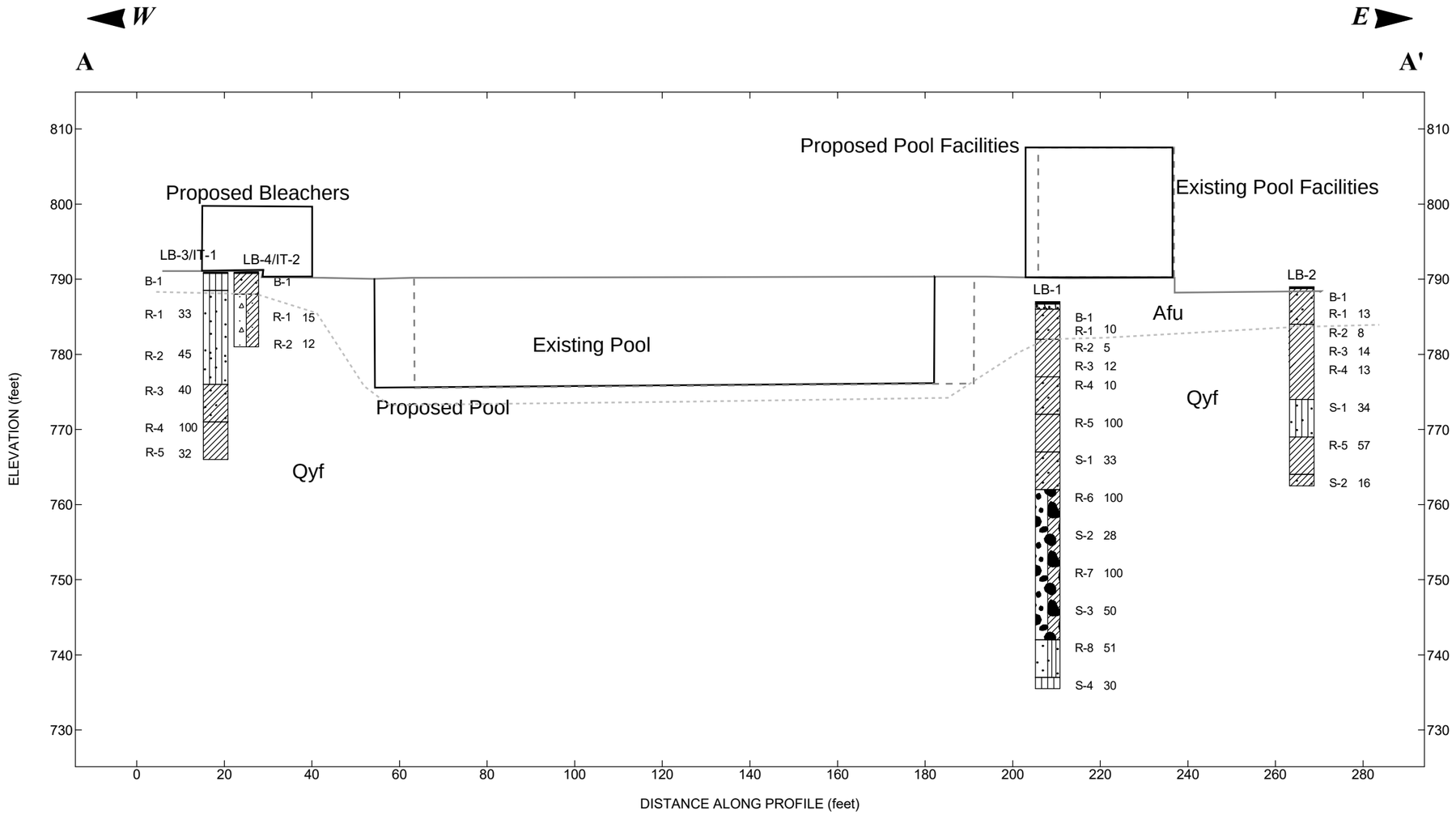
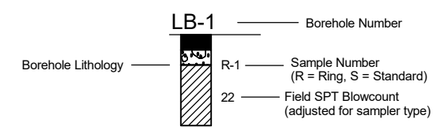



See Figure 2 for Cross-Section Location

## Explanation:




Water Level Reading at time of drilling.

Approximate Existing Grade

Existing Structure

Proposed Building

Approximate Geologic Contact




Horizontal Scale (feet)

Vertical Exaggeration: 1.5x

## Lithology Graphics

- Asphalt
- BASE COURSE
- USCS Clayey Sand
- USCS Low Plasticity Clay
- USCS Well-graded Gravel with Clay
- USCS Poorly-graded Sand with Silt
- USCS Silt
- USCS Silty Sand
- USCS Poorly-graded Gravel with Clay
- USCS Well-graded Sand with Clay

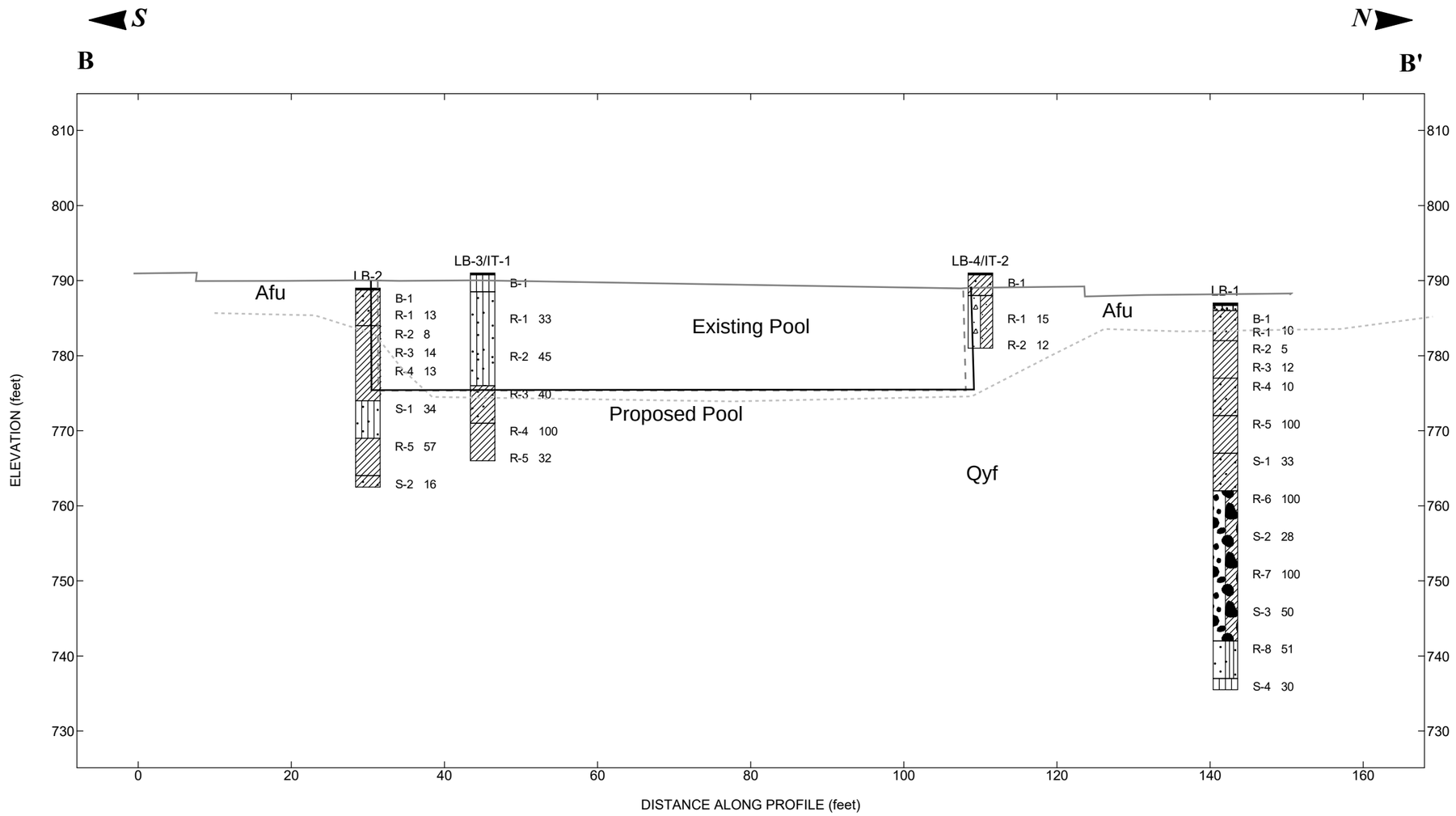
**Leighton Consulting, Inc,**

**Section A - A'**
**GEOLOGIC CROSS SECTION**

Centennial High School
Aquatic Center Project
Corona, CA

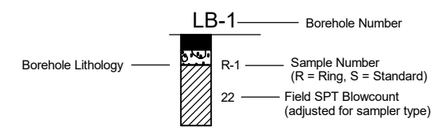
| JOB NUMBER | FIGURE NUMBER |
|---|---|
| 13624.001 | Figure 4A |

FNC AB NWNL01 - B SIZE 13624.001 BORING LOGS FOR CS.GPJ ROCKLOG2012.GDT 8/31/22




See Figure 2 for Cross-Section Location

## Explanation:




Water Level Reading at time of drilling.

Approximate Existing Grade

Existing Structure

Proposed Building

Approximate Geologic Contact




Horizontal Scale (feet)

Vertical Exaggeration: 1x

## Lithology Graphics

- Asphalt
- BASE COURSE
- USCS Clayey Sand
- USCS Low Plasticity Clay
- USCS Well-graded Gravel with Clay
- USCS Poorly-graded Sand with Silt
- USCS Silt
- USCS Silty Sand
- USCS Poorly-graded Gravel with Clay
- USCS Well-graded Sand with Clay

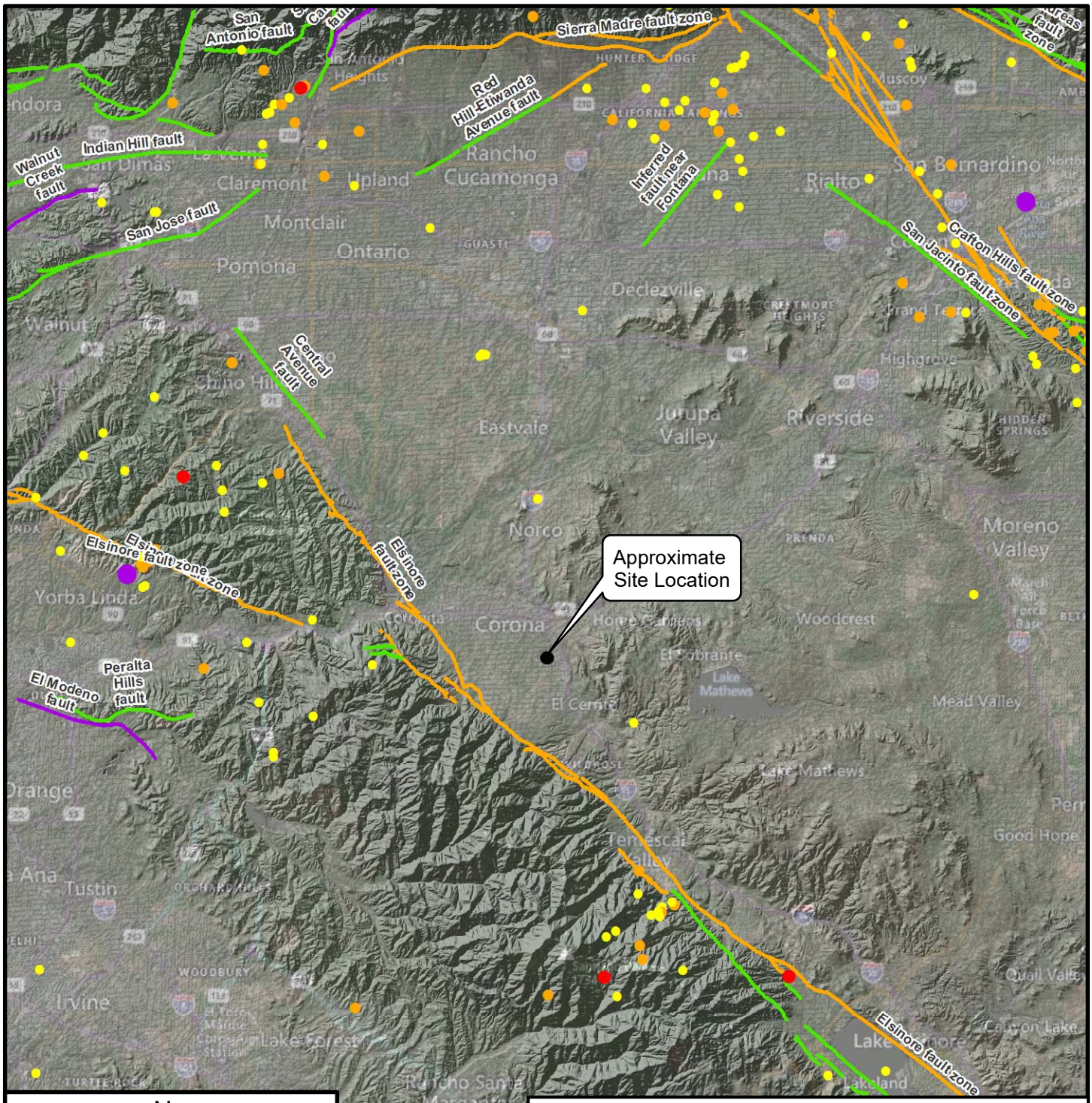
**Leighton Consulting, Inc.**

**Section B-B'**
**GEOLOGIC CROSS SECTION**

Centennial High School
Aquatic Center Project
Corona, CA

| JOB NUMBER | FIGURE NUMBER |
|---|---|
| 13624.001 | Figure 4B |

FNC AB NWNL01 - B SIZE 13624.001 BORING LOGS FOR CS.GPJ ROCKLOG2012.GDT 8/31/22




## LEGEND

**Fault activity**

**Recency of Movement**

- Holocene (<11,700 years)
- Late Quaternary (last 700,000 years)
- Quaternary (<1.6M years)

**Historical Earthquakes (≥M3.5)**

- 3.5 - 3.99
- 4.0 - 4.99
- 5.0 - 5.99
- 6.0 - 6.99

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| Project: 13624.001 | Eng/Geol: JDH/SGO |
| Scale: 1 " = 5 miles | Date: August 2022 |

Basemap Reference: © 2022 Microsoft Corporation
Earthstar Geographics SIO © 2022 TomTom
Seismicity Data Reference: maps.conservation.ca.gov

# REGIONAL FAULT AND HISTORICAL SEISMICITY MAP

Aquatic Center Project
Centennial High School
1820 Rimpau Avenue, Corona, California

**FIGURE 5**

Leighton

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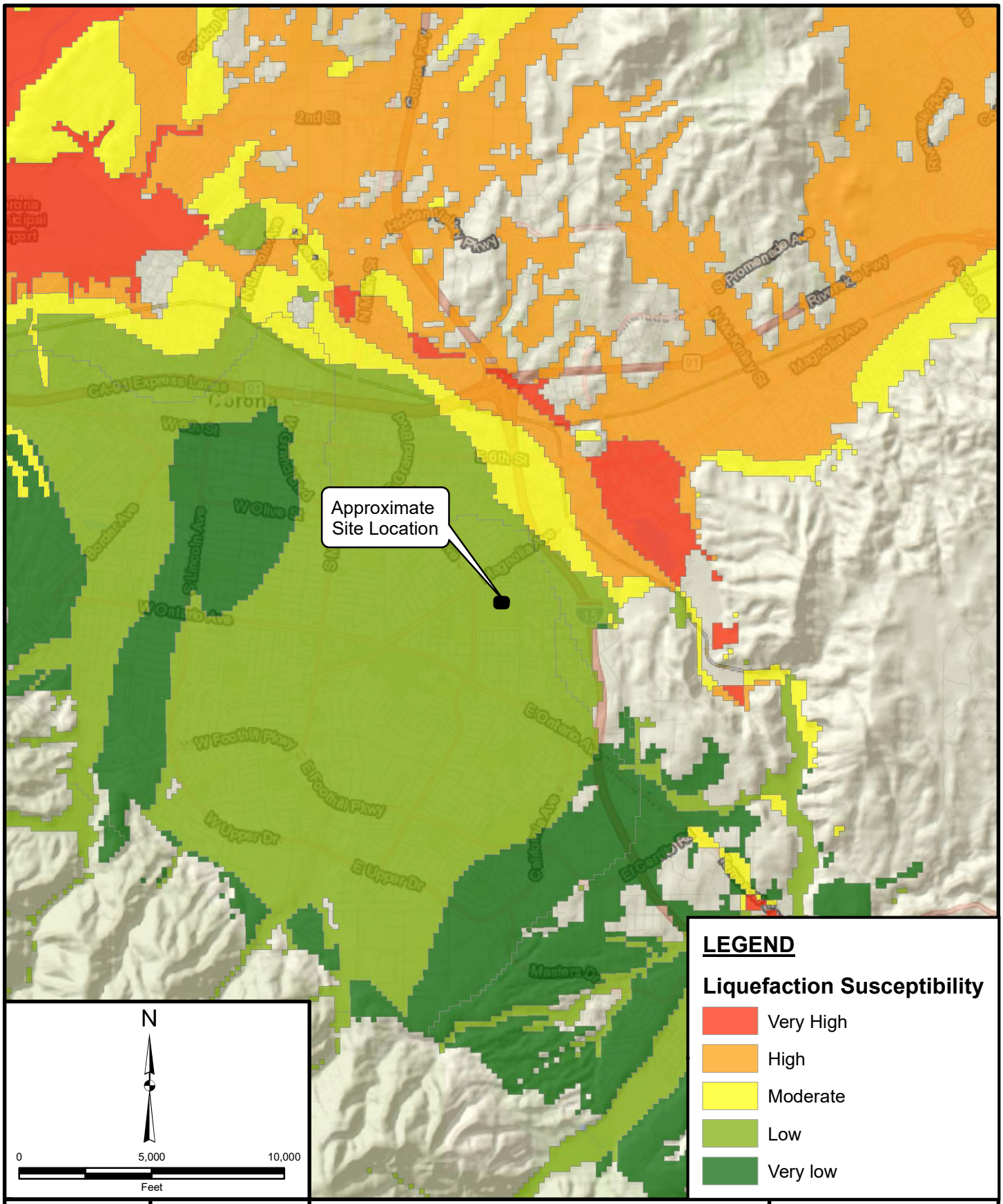


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| Project: 13624.001 | Eng/Geol: JDH/SGO |
| Scale: 1 " = 5,000 ' | Date: August 2022 |

Base Map: ESRI ArcGIS Online 2022
Reference: Riverside County Mapping Portal

# LIQUEFACTION **HAZARD** MAP

Aquatic Center Project
Centennial High School
1820 Rimpau Avenue, Corona, California

**FIGURE 6**

Leighton

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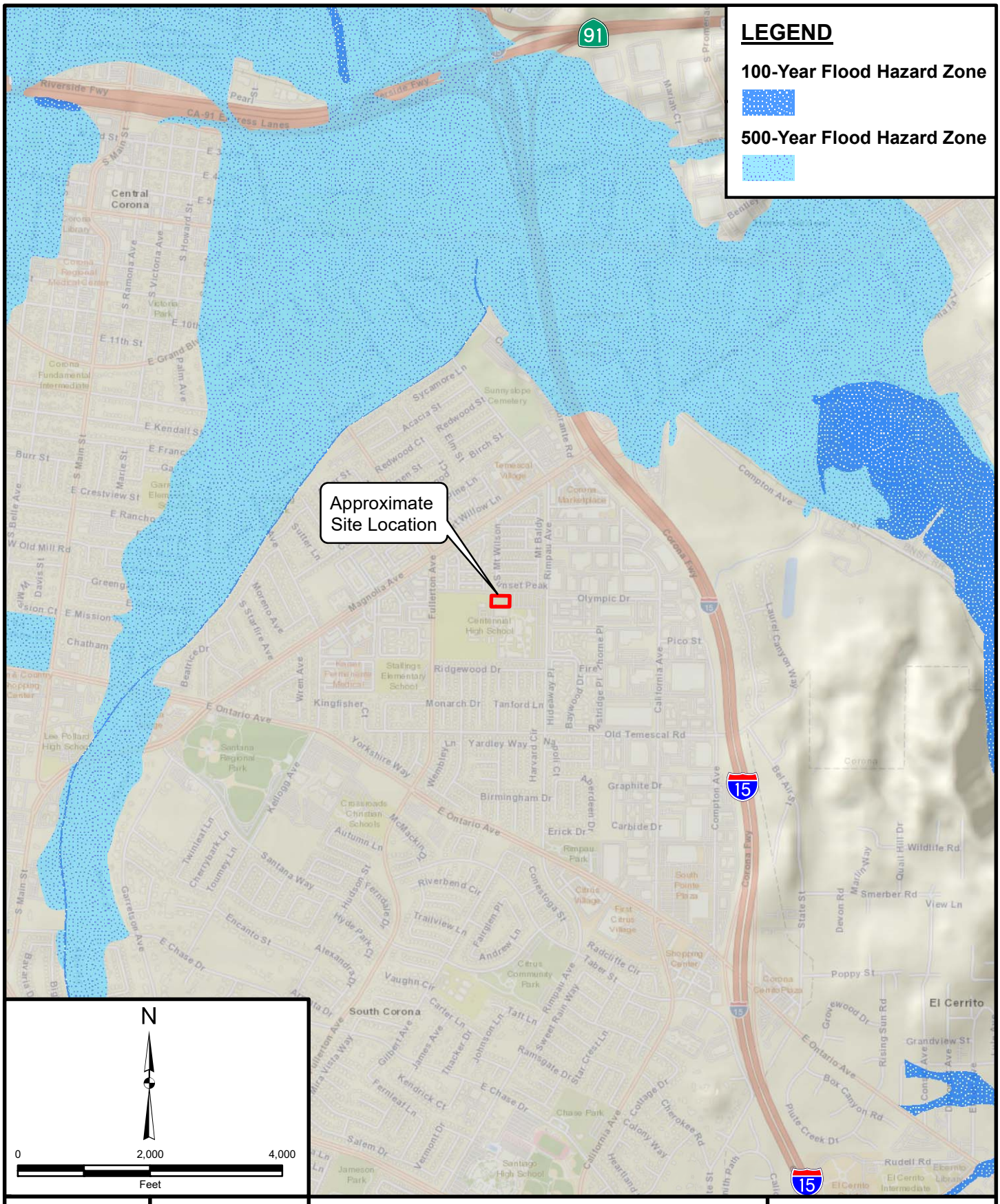


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| Project: 13624.001 | Eng/Geol: JDH/SGO |
| Scale:1 " = 2,000 ' | Date: August 2022 |

Reference: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community
FEMA (http://www.fema.gov/index.shtm), DWR (http://www.dwr.ca.gov)

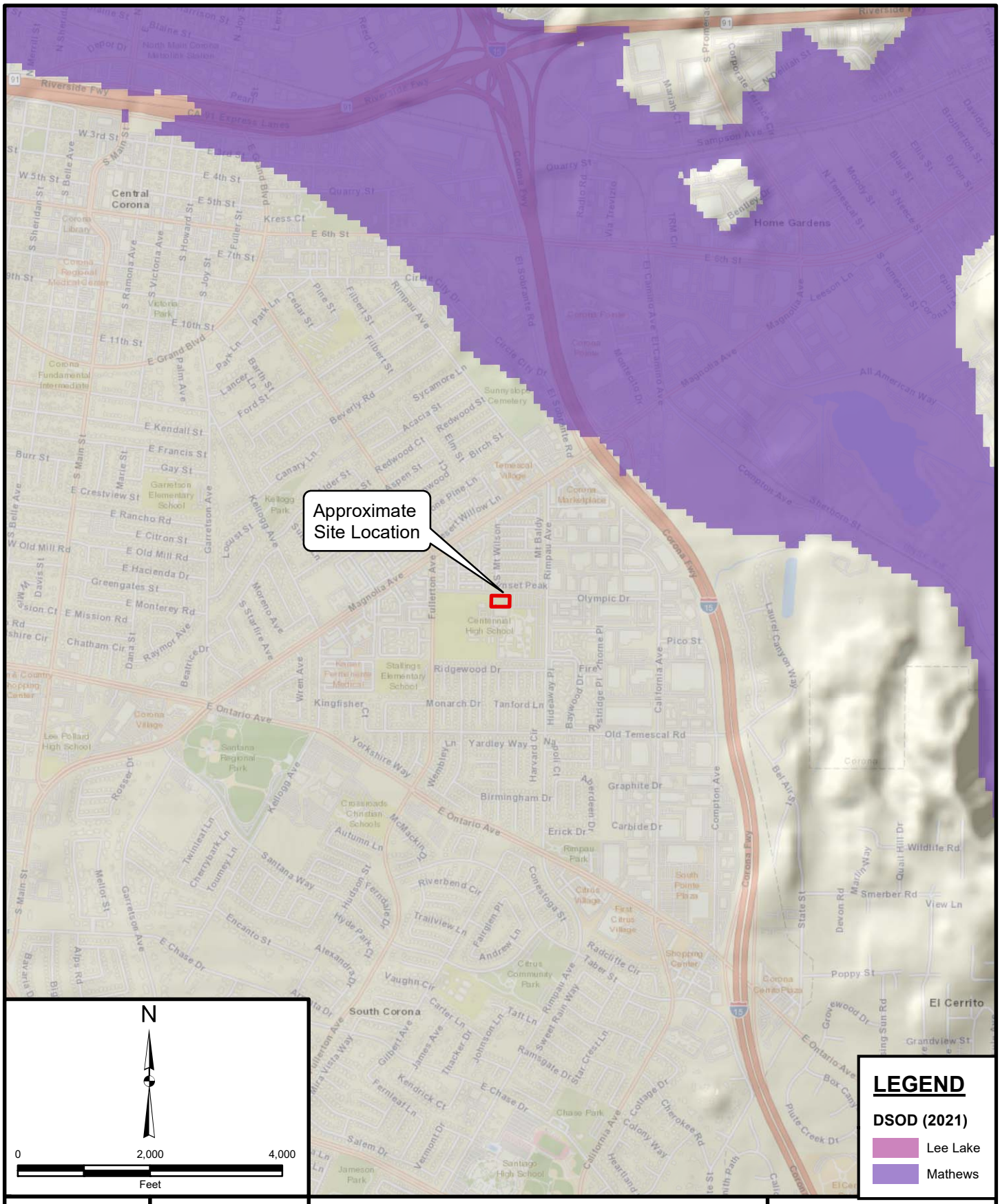
# FLOOD HAZARD ZONE MAP

Aquatic Center Project
Centennial High School
1820 Rimpau Avenue, Corona, California

**FIGURE 7**

Leighton

Map Saved as J:\Drafting\13624\001\Maps\13624-001_F07_FHM_2022-08-11.mxd on 8/10/2022 4:13:36 PM Author: KVM (btran)

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|---|---|
| Project: 13624.001 | Eng/Geol: JDH/SGO |
| Scale:1 " = 2,000 ' | Date: August 2022 |

Base Map: ESRI ArcGIS Online 2022
Reference: Office of Emergency Services (2007),
Dept of Safety of Dams (2021)
National Inventory of Dams, Army Corps of Engrs (2021)

# DAM INUNDATION MAP

Aquatic Center Project
Centennial High School
1820 Rimpau Avenue, Corona, California

**FIGURE 8**

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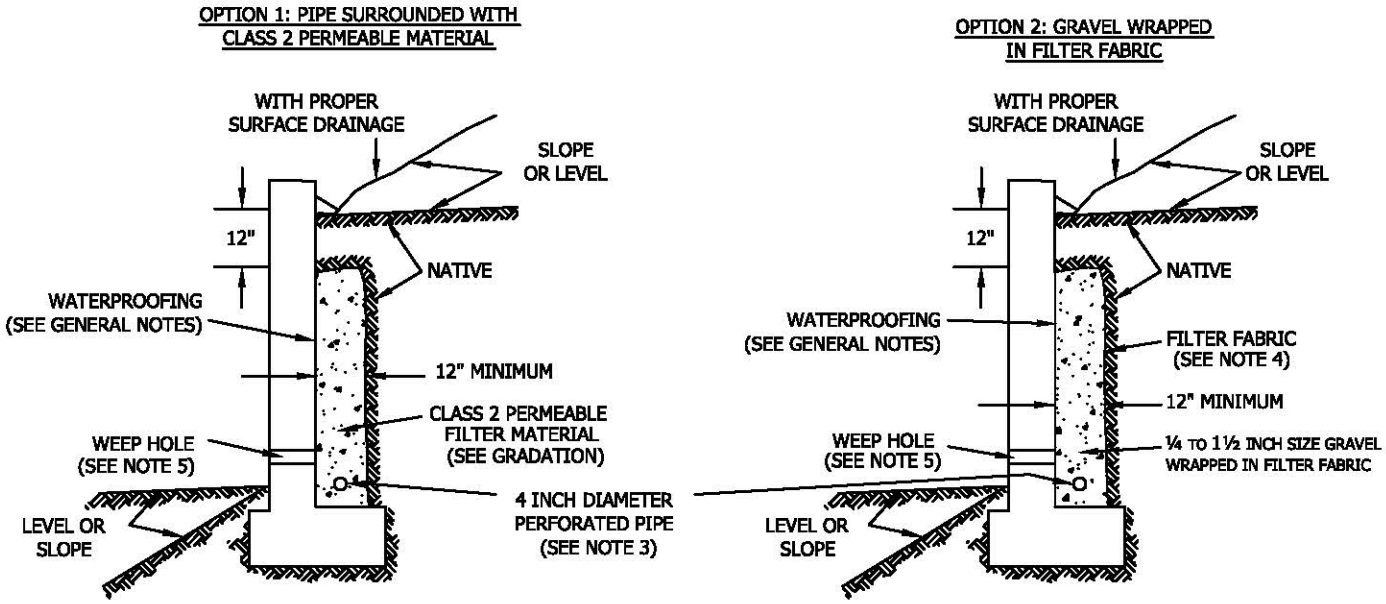
Map Saved as J:\Drafting\13624\001\Maps\13624-001_F08_DIM_2022-08-11.mxd on 8/10/2022 4:18:00 PM Author: KVM (btran)

## SUBDRAIN OPTIONS AND BACKFILL WHEN NATIVE MATERIAL HAS EXPANSION INDEX OF ≤50




Class 2 Filter Permeable Material Gradation
Per Caltrans Specifications

| Sieve Size | Percent Passing |
|---|---|
| 1" | 100 |
| 3/4" | 90-100 |
| 3/8" | 40-100 |
| No. 4 | 25-40 |
| No. 8 | 18-33 |
| No. 30 | 5-15 |
| No. 50 | 0-7 |
| No. 200 | 0-3 |

GENERAL NOTES:

* Waterproofing should be provided where moisture nuisance problem through the wall is undesirable.
* Water proofing of the walls is not under purview of the geotechnical engineer
* All drains should have a gradient of 1 percent minimum
*Outlet portion of the subdrain should have a 4-inch diameter solid pipe discharged into a suitable disposal area designed by the project engineer. The subdrain pipe should be accessible for maintenance (rodding)
*Other subdrain backfill options are subject to the review by the geotechnical engineer and modification of design parameters.

Notes:
1) Sand should have a sand equivalent of 30 or greater and may be densified by water jetting.
2) 1 Cu. ft. per ft. of 1/4- to 1 1/2-inch size gravel wrapped in filter fabric
3) Pipe type should be ASTM D1527 Acrylonitrile Butadiene Styrene (ABS) SDR35 or ASTM D1785 Polyvinyl Chloride plastic (PVC), Schedule 40, Armco A2000 PVC, or approved equivalent. Pipe should be installed with perforations down. Perforations should be 3/8 inch in diameter placed at the ends of a 120-degree arc in two rows at 3-inch on center (staggered)
4) Filter fabric should be Mirafi 140NC or approved equivalent.
5) Weephole should be 3-inch minimum diameter and provided at 10-foot maximum intervals. If exposure is permitted, weepholes should be located 12 inches above finished grade. If exposure is not permitted such as for a wall adjacent to a sidewalk/curb, a pipe under the sidewalk to be discharged through the curb face or equivalent should be provided. For a basement-type wall, a proper subdrain outlet system should be provided.
6) Retaining wall plans should be reviewed and approved by the geotechnical engineer.
7) Walls over six feet in height are subject to a special review by the geotechnical engineer and modifications to the above requirements.

# RETAINING WALL BACKFILL AND SUBDRAIN DETAIL FOR WALLS 6 FEET OR LESS IN HEIGHT

## WHEN NATIVE MATERIAL HAS EXPANSION INDEX OF ≤50

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Figure 9

P:\Drafting\templates\details\retain-wall-backfill-and subdrain.dwg (7/00)

# APPENDIX A

# GEOTECHNICAL EXPLORATION LOGS

## APPENDIX A

GEOTECHNICAL BORING LOGS

The field investigation consisted of a surface reconnaissance and a subsurface exploration program. Encountered soils were continuously logged in the field by our representative and described in accordance with the Unified Soil Classification System (ASTM D2488). Logs of these subsurface explorations are included as part of this appendix.

Borings were drilled with a truck-mounted hollow-stem drill rig. Relatively undisturbed soil samples were obtained at selected intervals within the borings using a California Ring Sampler and a Standard Penetration Test (SPT) split-spoon sampler. Bulk samples of representative soil types were also obtained from the borings. These samples were transported to our geotechnical laboratory for evaluation and appropriate testing. Borings were backfilled with the excavated earth materials after logging and sampling was completed.

The attached subsurface exploration logs and related information depict subsurface conditions only at the locations indicated and at the particular date designated on the logs. Subsurface conditions at other locations may differ from conditions occurring at these locations. The passage of time may result in altered subsurface conditions due to environmental changes. In addition, any stratification lines on the logs represent the approximate boundary between soil types and the transition may be gradual.

# GEOTECHNICAL BORING LOG LB-1

| | | | |
|---|---|---|---|
| **Project No.** | 13624.001 | **Date Drilled** | 8-4-22 |
| **Project** | Centennial High School Aquatic Center | **Logged By** | JP |
| **Drilling Co.** | 2R Drilling | **Hole Diameter** | 8" |
| **Drilling Method** | Hollow Stem Auger - Autohammer - 30" Drop | **Ground Elevation** | 787' |
| **Location** | See Figure 2 - Geotechnical Map | **Sampled By** | JP |

| Elevation Feet | Depth Feet | Graphic Log | Attitudes | Sample No. | Blows Per 6 Inches | Dry Density pcf | Moisture Content, % | Soil Class. (U.S.C.S.) | SOIL DESCRIPTION | Type of Tests |
|---|---|---|---|---|---|---|---|---|---|---|
| | | N S | | | | | | | *This Soil Description applies only to a location of the exploration at the time of sampling. Subsurface conditions may differ at other locations and may change with time. The description is a simplification of the actual conditions encountered. Transitions between soil types may be gradual.* | |
| | 0 | | | | | | | | @Surface: ASPHALT 4-inches over 8-inches BASE | |
| | | | | B-1 | | | | | **Undocumented Artificial Fill (Afu):** | |
| 785 | | | | R-1 | 16<br>9<br>7 | 119 | 11 | SC | @2.5': CLAYEY SAND (SC), medium dense, brown, moist, fine sand, 30-35% fines (field estimate) | |
| | 5 | | | R-2 | 3<br>3<br>4 | 120 | 11 | | **Quaternary Young Alluvial Fan Deposits(Qyf):**<br>@5': SANDY CLAY (CL), medium stiff, brown, moist, fine sand, trace gravel, 51% fines (lab) | -200 |
| 780 | | | | R-3 | 12<br>11<br>8 | | | CL | @7.5': SANDY CLAY (CL), stiff, brown, moist, fine sand, trace gravel, 55% fines (field estimate) | |
| | 10 | | | R-4 | 8<br>8<br>8 | 120 | 13 | SC | @10': CLAYEY SAND (SC), medium dense, brown, moist, fine sand, trace fine gravel, 47% fines (lab) | -200, AL |
| 775 | | | | | | | | | | |
| | 15 | | | R-5 | 21<br>50/6" | 130 | 11 | CL | @15': CLAY (CL), hard, brown, slightly moist, low-plasticity, fragments of broken cobble in sampler | |
| 770 | | | | | | | | | | |
| | 20 | | | S-1 | 16<br>14<br>19 | | | SC | @20': CLAYEY SAND (SC), dense, brown, slightly moist, fine to medium sand, fine to coarse gravel | |
| 765 | | | | | | | | | | |
| | 25 | | | R-6 | 35<br>50/6" | 126 | 5 | GW-GC | @25': GRAVEL with SAND and SILT (GW-GC), very dense, brown, slightly moist, fine to medium sand, fine to coarse gravel, 12% fines (lab) | -200 |
| 760 | | | | | | | | | | |
| | 30 | | | | | | | | | |

**SAMPLE TYPES:**

- B BULK SAMPLE
- C CORE SAMPLE
- G GRAB SAMPLE
- R RING SAMPLE
- S SPLIT SPOON SAMPLE
- T TUBE SAMPLE

**TYPE OF TESTS:**

- -200 % FINES PASSING
- AL ATTERBERG LIMITS
- CN CONSOLIDATION
- CO COLLAPSE
- CR CORROSION
- CU UNDRAINED TRIAXIAL
- DS DIRECT SHEAR
- EI EXPANSION INDEX
- H HYDROMETER
- MD MAXIMUM DENSITY
- PP POCKET PENETROMETER
- RV R VALUE
- SA SIEVE ANALYSIS
- SE SAND EQUIVALENT
- SG SPECIFIC GRAVITY
- UC UNCONFINED COMPRESSIVE STRENGTH

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# GEOTECHNICAL BORING LOG LB-1

| | | | |
|---|---|---|---|
| **Project No.** | 13624.001 | **Date Drilled** | 8-4-22 |
| **Project** | Centennial High School Aquatic Center | **Logged By** | JP |
| **Drilling Co.** | 2R Drilling | **Hole Diameter** | 8" |
| **Drilling Method** | Hollow Stem Auger - Autohammer - 30" Drop | **Ground Elevation** | 787' |
| **Location** | See Figure 2 - Geotechnical Map | **Sampled By** | JP |

| Elevation Feet | Depth Feet | Graphic Log (N / S) | Attitudes | Sample No. | Blows Per 6 Inches | Dry Density pcf | Moisture Content, % | Soil Class. (U.S.C.S.) | SOIL DESCRIPTION | Type of Tests |
|---|---|---|---|---|---|---|---|---|---|---|
| | 30 | | | S-2 | 12<br>14<br>14 | | | GW-GC | @30': GRAVEL with SAND and SILT (GW-GC), dense, brown, slightly moist, fine to medium sand, fine to coarse gravel, 15% fines (field estimate) | |
| 755 | | | | | | | | | | |
| | 35 | | | R-7 | 33<br>50/6" | | | | @35': GRAVEL with SAND and SILT (GW-GC), very dense, brown, slightly moist, fine to medium sand, fine to coarse gravel, 15% fines (field estimate) | |
| 750 | | | | | | | | | | |
| | 40 | | | S-3 | 11<br>26<br>24 | | | GW-GC | @40': GRAVEL with SAND and SILT (GW-GC), dense, brown, slightly moist, fine to medium sand, fine to coarse gravel, 15% fines (field estimate) | |
| 745 | | | | | | | | | | |
| | 45 | | | R-8 | 25<br>36<br>42 | | | SP-SM | @45': SAND with silt (SP-SM), dense, light brown, moist, fine to coarse sand, 10% fines (field estimate) | |
| 740 | | | | | | | | | | |
| | 50 | | | S-4 | 7<br>12<br>18 | | | ML | @50': SANDY SILT (ML), very stiff, brown, moist, fine sand, 55% fines (field estimate) | |
| 735 | | | | | | | | | **TOTAL DEPTH = 51.5 FEET**<br>**NO GROUNDWATER ENCOUNTERED**<br>**BACKFILLED TO SURFACE WITH SOIL CUTTINGS** | |
| | 55 | | | | | | | | | |
| 730 | | | | | | | | | | |
| | 60 | | | | | | | | | |

**SAMPLE TYPES:**

- B BULK SAMPLE
- C CORE SAMPLE
- G GRAB SAMPLE
- R RING SAMPLE
- S SPLIT SPOON SAMPLE
- T TUBE SAMPLE

**TYPE OF TESTS:**

- -200 % FINES PASSING
- AL ATTERBERG LIMITS
- CN CONSOLIDATION
- CO COLLAPSE
- CR CORROSION
- CU UNDRAINED TRIAXIAL
- DS DIRECT SHEAR
- EI EXPANSION INDEX
- H HYDROMETER
- MD MAXIMUM DENSITY
- PP POCKET PENETROMETER
- RV R VALUE
- SA SIEVE ANALYSIS
- SE SAND EQUIVALENT
- SG SPECIFIC GRAVITY
- UC UNCONFINED COMPRESSIVE STRENGTH

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# GEOTECHNICAL BORING LOG LB-2

| | | | |
|---|---|---|---|
| **Project No.** | 13624.001 | **Date Drilled** | 8-4-22 |
| **Project** | Centennial High School Aquatic Center | **Logged By** | JP |
| **Drilling Co.** | 2R Drilling | **Hole Diameter** | 8" |
| **Drilling Method** | Hollow Stem Auger - Autohammer - 30" Drop | **Ground Elevation** | 789' |
| **Location** | See Figure 2 - Geotechnical Map | **Sampled By** | JP |

| Elevation Feet | Depth Feet | Graphic Log (N S) | Attitudes | Sample No. | Blows Per 6 Inches | Dry Density pcf | Moisture Content, % | Soil Class. (U.S.C.S.) | SOIL DESCRIPTION | Type of Tests |
|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | | | B-1 | | | | | @Surface: ASPHALT 3-inches over CLAYEY SAND (SC)<br>**Undocumented Artificial Fill (Afu):** | SA, MD, DS, EI CR |
| | | | | R-1 | 5<br>10<br>10 | | | SC | @2.5': CLAYEY SAND (SC), medium dense, brown, moist, fine to medium sand, trace fine gravel, 42% fines (lab) | |
| 785 | 5 | | | R-2 | 4<br>6<br>7 | 123 | 10 | CL | **Quaternary Young Alluvial Fan Deposits(Qyf):**<br>@5': SANDY CLAY (CL), stiff, brown, moist, fine to medium sand, trace coarse gravel, 55% fines (field estimate) | |
| | | | | R-3 | 5<br>10<br>11 | | | CL | @7.5': SANDY CLAY (CL), stiff, brown, moist, fine to medium sand, trace fine gravel, 55% fines (field estimate) | |
| 780 | 10 | | | R-4 | 14<br>12<br>8 | 121 | 8 | CL | @10': SANDY CLAY (CL), stiff, brown, moist, fine to medium sand, trace fine gravel, 55% fines (field estimate) | |
| 775 | 15 | | | S-1 | 12<br>18<br>16 | | | SM | @15': SILTY SAND with GRAVEL (SM), dense, brown, slightly moist, fine to medium sand, trace fine to coarse gravel, 21% fines (lab) | -200 |
| 770 | 20 | | | R-5 | 19<br>39<br>48 | | | CL | @20': CLAY (CL), hard, brown, moist, trace coarse gravel, low-plasticity | |
| 765 | 25 | | | S-2 | 3<br>6<br>10 | | | SC | @25': CLAYEY SAND (SC), medium dense, brown, moist, fine to medium sand, trace fine gravel, manganese specs | |
| 760 | 30 | | | | | | | | **TOTAL DEPTH = 26.5 FEET**<br>**NO GROUNDWATER ENCOUNTERED**<br>**BACKFILLED TO SURFACE WITH SOIL CUTTINGS** | |

*This Soil Description applies only to a location of the exploration at the time of sampling. Subsurface conditions may differ at other locations and may change with time. The description is a simplification of the actual conditions encountered. Transitions between soil types may be gradual.*

**SAMPLE TYPES:**
- B BULK SAMPLE
- C CORE SAMPLE
- G GRAB SAMPLE
- R RING SAMPLE
- S SPLIT SPOON SAMPLE
- T TUBE SAMPLE

**TYPE OF TESTS:**
- -200 % FINES PASSING
- AL ATTERBERG LIMITS
- CN CONSOLIDATION
- CO COLLAPSE
- CR CORROSION
- CU UNDRAINED TRIAXIAL
- DS DIRECT SHEAR
- EI EXPANSION INDEX
- H HYDROMETER
- MD MAXIMUM DENSITY
- PP POCKET PENETROMETER
- RV R VALUE
- SA SIEVE ANALYSIS
- SE SAND EQUIVALENT
- SG SPECIFIC GRAVITY
- UC UNCONFINED COMPRESSIVE STRENGTH

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# GEOTECHNICAL BORING LOG LB-3/IT-1

| | | | |
|---|---|---|---|
| **Project No.** | 13624.001 | **Date Drilled** | 8-4-22 |
| **Project** | Centennial High School Aquatic Center | **Logged By** | JP |
| **Drilling Co.** | 2R Drilling | **Hole Diameter** | 8" |
| **Drilling Method** | Hollow Stem Auger - Autohammer - 30" Drop | **Ground Elevation** | 791' |
| **Location** | See Figure 2 - Geotechnical Map | **Sampled By** | JP |

| Elevation Feet | Depth Feet | Graphic Log (N S) | Attitudes | Sample No. | Blows Per 6 Inches | Dry Density pcf | Moisture Content, % | Soil Class. (U.S.C.S.) | SOIL DESCRIPTION | Type of Tests |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | *This Soil Description applies only to a location of the exploration at the time of sampling. Subsurface conditions may differ at other locations and may change with time. The description is a simplification of the actual conditions encountered. Transitions between soil types may be gradual.* | |
| 790 | 0 | | | B-1 | | | | ML | @Surface: ASPHALT 3-inches over SANDY SILT (ML)<br>**Undocumented Artificial Fill (Afu):**<br>@1': SANDY SILT (ML), brown, moist, fine sand | |
| | | | | | | | | | **Quaternary Young Alluvial Fan Deposits(Qyf):** | |
| 785 | 5 | | | R-1 | 40<br>32<br>19 | | 6 | SM | @5':SILTY SAND with GRAVEL (SM), dense, brown, slightly moist, fine sand, fine to coarse gravel, up to 2-inches in diameter, 30% fines (field estimate) | |
| 780 | 10 | | | R-2 | 23<br>35<br>34 | 118 | 5 | SM | @10':SILTY SAND with GRAVEL (SM), dense, brown, slightly moist, fine sand, fine to coarse gravel, up to 2-inches in diameter, cobble fragments encountered in sampler | |
| 775 | 15 | | | R-3 | 20<br>25<br>36 | 116 | 4 | SC | @15': CLAYEY SAND (SC), dense, brown, slightly moist, fine to medium sand, fine to coarse gravel, up to 1.5-inches in diameter | |
| 770 | 20 | | | R-4 | 25<br>50/5" | | | CL | @20': CLAY (CL), Hard, brown, slightly moist, low plasticity, fine gravel | |
| | | | | R-5 | 14<br>21<br>28 | | | CL | @23.5': CLAY (CL), very stiff, brown, slightly moist, low plasticity, fine gravel, 67% fines (lab) | -200, AL |
| 765 | 25 | | | | | | | | **TOTAL DEPTH = 25 FEET**<br>**NO GROUNDWATER ENCOUNTERED**<br>**CONVERTED TO INFILTRATION BORING.**<br>**BACKFILLED TO SURFACE WITH SOIL CUTTINGS AND PATCHED WITH ASPHALT COLD PATCH AFTER INFILTRATION TESTING** | |
| | 30 | | | | | | | | | |

**SAMPLE TYPES:**

- B BULK SAMPLE
- C CORE SAMPLE
- G GRAB SAMPLE
- R RING SAMPLE
- S SPLIT SPOON SAMPLE
- T TUBE SAMPLE

**TYPE OF TESTS:**

- -200 % FINES PASSING
- AL ATTERBERG LIMITS
- CN CONSOLIDATION
- CO COLLAPSE
- CR CORROSION
- CU UNDRAINED TRIAXIAL
- DS DIRECT SHEAR
- EI EXPANSION INDEX
- H HYDROMETER
- MD MAXIMUM DENSITY
- PP POCKET PENETROMETER
- RV R VALUE
- SA SIEVE ANALYSIS
- SE SAND EQUIVALENT
- SG SPECIFIC GRAVITY
- UC UNCONFINED COMPRESSIVE STRENGTH

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# GEOTECHNICAL BORING LOG LB-4/IT-2

| | | | |
|---|---|---|---|
| **Project No.** | 13624.001 | **Date Drilled** | 8-4-22 |
| **Project** | Centennial High School Aquatic Center | **Logged By** | JP |
| **Drilling Co.** | 2R Drilling | **Hole Diameter** | 8" |
| **Drilling Method** | Hollow Stem Auger - Autohammer - 30" Drop | **Ground Elevation** | 791' |
| **Location** | See Figure 2 - Geotechnical Map | **Sampled By** | JP |

| Elevation Feet | Depth Feet | Graphic Log | Attitudes | Sample No. | Blows Per 6 Inches | Dry Density pcf | Moisture Content, % | Soil Class. (U.S.C.S.) | SOIL DESCRIPTION | Type of Tests |
|---|---|---|---|---|---|---|---|---|---|---|
| | | N S | | | | | | | *This Soil Description applies only to a location of the exploration at the time of sampling. Subsurface conditions may differ at other locations and may change with time. The description is a simplification of the actual conditions encountered. Transitions between soil types may be gradual.* | |
| 790 | 0 | | | B-1 | | | | SC | @Surface: ASPHALT 3-inches over CLAYEY SAND (SC)<br>**Undocumented Artificial Fill (Afu):**<br>@1' CLAYEY SAND (SC), moderately dense, brown, slightly moist, fine to medium sand, fine to coarse gravel up to 2-inches in diameter | |
| | | | | | | | | | **Quaternary Young Alluvial Fan Deposits(Qyf):** | |
| 785 | 5 | | | R-1 | 13<br>12<br>11 | | | SW-SC | @5': SAND with CLAY and GRAVEL (SW-SC), medium dense, brown, slightly moist, fine to medium sand, fine to coarse gravel up to 2-inches in diameter | |
| | | | | R-2 | 8<br>9<br>9 | | | SW-SC | @8.5': SAND with CLAY and GRAVEL (SW-SC), medium dense, brown, slightly moist, fine to medium sand, fine to coarse gravel up to 2-inches in diameter, 11 % fines (lab) | -200 |
| 780 | 10 | | | | | | | | **TOTAL DEPTH = 11 FEET**<br>**NO GROUNDWATER ENCOUNTERED**<br>**CONVERTED TO INFILTRATION BORING.**<br>**BACKFILLED TO SURFACE WITH SOIL CUTTINGS AND PATCHED WITH ASPHALT COLD PATCH AFTER INFILTRATION TESTING** | |
| 775 | 15 | | | | | | | | | |
| 770 | 20 | | | | | | | | | |
| 765 | 25 | | | | | | | | | |
| | 30 | | | | | | | | | |

**SAMPLE TYPES:**

- B BULK SAMPLE
- C CORE SAMPLE
- G GRAB SAMPLE
- R RING SAMPLE
- S SPLIT SPOON SAMPLE
- T TUBE SAMPLE

**TYPE OF TESTS:**

- -200 % FINES PASSING
- AL ATTERBERG LIMITS
- CN CONSOLIDATION
- CO COLLAPSE
- CR CORROSION
- CU UNDRAINED TRIAXIAL
- DS DIRECT SHEAR
- EI EXPANSION INDEX
- H HYDROMETER
- MD MAXIMUM DENSITY
- PP POCKET PENETROMETER
- RV R VALUE
- SA SIEVE ANALYSIS
- SE SAND EQUIVALENT
- SG SPECIFIC GRAVITY
- UC UNCONFINED COMPRESSIVE STRENGTH

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# Results of Falling Head Infiltration Test

**Project:** 13624.001

Exploration #/Location: *LB-3/IT-1*

Depth Boring drilled, bgs (ft): 25

Tested by: JP

USCS Soil Type in test zone: CL (67% fines)

Weather (start to finish): Sunny

Water Source/pH: H2O

**Measured boring diameter:** 8 in. 4 in. Well Radius

Depth to GW or aquitard, bgs: 100 ft

Well Prep: Drilled to 25 feet bgs ,pipe set at 25 ft bgs, bottom 5 foot screened and #3 sand placed around anulus to 19 ft bgs

Initial estimated Depth to Water Surface (in.): 259

Average depth of water in well, "h" (in.): 40

approx. h/r: 9.9

Tu (Fig. 8) (ft): 78.4

Tu>3h?: yes, OK

Cross-sectional area for flow calcs based on Δh

| | |
|---|---|
| Well pack sand porosity | 0.3 |
| Casing outer diameter, in. | 2.3 |
| Casing inner diameter, in. | 2.1 |
| Cross-sectional area, in.^2 | 17.3 |

Use of Barrels: No

Use of Flow Meter: No

Test Type: Falling Head

| | ft | in. | Total (in.) |
|---|---|---|---|
| Depth to bottom of well measured from top of auger (or ground surfa | 24.9 ft | 0. in. | 299 |
| Casing stickup measured above top of auger (or ground surface) (+ i | 0. ft | 0. in. | 0 |
| Depth to top of sand from top of casing | 19. ft | | |

Depth of well bottom below top of casing (in): 299

Flow Meter ID: Meter Units: Gallons 0.05 gallons/pulse Data logger ID:

**Field Data** **Calculations**

| Date | Time | Data from Flow Meter | | Depth to WL in Boring (measured from top of casing) | | Water Temp (deg F) | Refilled? | Δt (min) | Total Elapsed Time (min) | Depth to WL in well (in.) | h, Height of Water in Well (in.) | Δh (in.) | Avg. h | Vol Change (in.^3) | | | Flow (in^3/ min) | q, Flow (in^3/ hr) | Average Infiltration Surface Area, (in^2) | V (Fig 9) | K20, Coef. Of Perme-ability at 20 deg C (in./hr) | **Infiltration Rate [flow/surf area] (in./hr) (FS=1)** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Reading (gallons) | Interval Pulse Count | | | | (or Comments) | | | | | | | from supply | from Δh | Total | | | | | | |
| Start Date | Start time: | Gallons | | ft | in. | | | | | | | | | | | | | | | | | |
| 8/5/2022 | 8:30 | | | | | | | | | | | | | | | | | | | | | |
| 8/5/22 | 8:37 | | | 20.01 | | | | | 7 | 240.1 | 58.7 | | | | | | | | | | | |
| 8/5/22 | 8:38 | | | 20.12 | | | | 1 | 8 | 241.4 | 57.4 | -1.32 | 58 | 0 | 23 | 23 | 23 | 1370 | 1508 | 0.9 | 0.15 | 0.84 |
| 8/5/22 | 8:39 | | | 20.2 | | | | 1 | 9 | 242.4 | 56.4 | -0.96 | 57 | 0 | 17 | 17 | 17 | 996 | 1480 | 0.9 | 0.11 | 0.62 |
| 8/5/22 | 8:40 | | | 20.3 | | | | 1 | 10 | 243.6 | 55.2 | -1.2 | 56 | 0 | 21 | 21 | 21 | 1245 | 1453 | 0.9 | 0.14 | 0.79 |
| 8/5/22 | 8:45 | | | 20.7 | | | | 5 | 15 | 248.4 | 50.4 | -4.8 | 53 | 0 | 83 | 83 | 17 | 996 | 1377 | 0.9 | 0.14 | 0.67 |
| 8/5/22 | 8:55 | | | 21.1 | | | | 10 | 25 | 253.2 | 45.6 | -4.8 | 48 | 0 | 83 | 83 | 8 | 498 | 1257 | 0.9 | 0.08 | 0.37 |
| 8/5/22 | 9:05 | | | 21.3 | | | | 10 | 35 | 255.6 | 43.2 | -2.4 | 44 | 0 | 42 | 42 | 4 | 249 | 1166 | 0.9 | 0.04 | 0.20 |
| 8/5/22 | 9:15 | | | 21.5 | | | | 10 | 45 | 258.0 | 40.8 | -2.4 | 42 | 0 | 42 | 42 | 4 | 249 | 1106 | 0.9 | 0.05 | 0.21 |
| 8/5/22 | 9:25 | | | 21.70 | | | | 10 | 55 | 260.4 | 38.4 | -2.4 | 40 | 0 | 42 | 42 | 4 | 249 | 1046 | 0.9 | 0.05 | 0.22 |
| 8/5/22 | 9:45 | | | 22.00 | | | | 20 | 75 | 264.0 | 34.8 | -3.6 | 37 | 0 | 62 | 62 | 3 | 187 | 970 | 0.9 | 0.05 | 0.18 |
| 8/5/22 | 10:05 | | | 22.25 | | | | 20 | 95 | 267.0 | 31.8 | -3 | 33 | 0 | 52 | 52 | 3 | 156 | 887 | 0.9 | 0.04 | 0.16 |
| 8/5/22 | 10:35 | | | 22.55 | | | | 30 | 125 | 270.6 | 28.2 | -3.6 | 30 | 0 | 62 | 62 | 2 | 125 | 804 | 0.9 | 0.04 | 0.14 |
| 8/5/22 | 11:05 | | | 22.75 | | | | 30 | 155 | 273.0 | 25.8 | -2.4 | 27 | 0 | 42 | 42 | 1 | 83 | 729 | 0.9 | 0.03 | 0.11 |
| 8/5/22 | 11:35 | | | 22.90 | | | | 30 | 185 | 274.8 | 24.0 | -1.8 | 25 | 0 | 31 | 31 | 1 | 62 | 676 | 0.9 | 0.03 | 0.08 |
| 8/5/22 | 12:05 | | | 23.10 | | | | 30 | 215 | 277.2 | 21.6 | -2.4 | 23 | 0 | 42 | 42 | 1 | 83 | 623 | 0.9 | 0.04 | 0.12 |
| 8/5/22 | 12:35 | | | 23.25 | | | | 30 | 245 | 279.0 | 19.8 | -1.8 | 21 | 0 | 31 | 31 | 1 | 62 | 571 | 0.9 | 0.04 | 0.10 |
| | | | | | | | | | | | | | | | | | | | Minimum Rate: | | | 0.08 |
| | | | | | | | | | | | | | | Raw Rate for design, prior to application of adjustment factors: | | | | | | | | **0.17** |

# Results of Well Permeameter, from USBR 7300-89 Method

| | | | |
|---|---|---|---|
| **Project:** | 13624.001 | Initial estimated Depth to Water Surface (in.): | 94 |
| Exploration #/Location: | *LB-4/IT-2* | Average depth of water in well, "h" (in.): | 27 |
| Depth Boring drilled, bgs (ft): | 10 | approx. h/r: | 6.7 |
| Tested by: | JP | Tu (Fig. 8) (ft): | 92.2 |
| USCS Soil Type in test zone: | SW-SC (11% fines) | Tu>3h?: | yes, OK |
| Weather (start to finish): | Sunny | | |
| Water Source/pH: | H2O | | |
| Measured boring diameter: | 8 in. | 4 in. Well Radius | |
| Depth to GW or aquitard, bgs: | 100 ft | | |
| Well Prep: | Drilled to 10 feet bgs ,pipe set at 10ft bgs, bottom 5 foot screened and #3 sand placed around anulus to 4ft bgs | | |

Cross-sectional area for flow calcs based on Δh

| | |
|---|---|
| Well pack sand porosity | 0.3 |
| Casing outer diameter, in. | 2.3 |
| Casing inner diameter, in. | 2.1 |
| Cross-sectional area, in.^2 | 17.3 |

| | | | |
|---|---|---|---|
| | ft | in. | Total (in.) |
| Depth to bottom of well measured from top of auger (or ground surface) | 10.02 ft | 0. in. | 120 |
| Casing stickup measured above top of auger (or ground surface) (+ is | 0. ft | 0. in. | 0 |
| Depth to top of sand from top of casing | 4. ft | 0. in. | |

Depth of well bottom below top of casing (in): 120

Use of Barrels: No
Use of Flow Meter: Yes
Test Type: Constant Head

Flow Meter ID: 2828 Meter Units: Gallons 0.05 gallons/pulse Data logger ID:

**Field Data** **Calculations**

| Date | Time | Data from Flow Meter | | Depth to WL in Boring (measured from top of casing) | | Water Temp (deg F) | Refilled? (or Comments) | Δt (min) | Total Elapsed Time (min) | Depth to WL in well (in.) | h, Height of Water in Well (in.) | Δh (in.) | Avg. h | Vol Change (in.^3) | | | Flow (in^3/ min) | q, Flow (in^3/ hr) | Average Infiltration Surface Area, (in^2) | V (Fig 9) | K20, Coef. Of Perme-ability at 20 deg C (in./hr) | Infiltration Rate [flow/surf area] (in./hr) (FS=1) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Reading (gallons) | Interval Pulse Count | | | | | | | | | | | from supply | from Δh | Total | | | | | | |
| Start Date | Start time: | Gallons | | ft | in. | | | | | | | | | | | | | | | | | |
| 8/5/2022 | 9:00 | | | | | | | | | | | | | | | | | | | | | |
| 8/5/22 | 9:14 | 3340.5 | | 7.6 | | | | | 14 | 91.2 | 29.0 | | | | | | | | | | | |
| 8/5/22 | 9:19 | 3350.62 | | 7.6 | | | | 5 | 19 | 91.2 | 29.0 | 0 | 29 | 2338 | 0 | 2338 | 468 | 28053 | | 0.9 | 8.83 | 33.15 |
| 8/5/22 | 9:24 | 3365.71 | | 7.61 | | | | 5 | 24 | 91.3 | 28.9 | -0.12 | 29 | 3486 | 2 | 3488 | 698 | 41854 | | 0.9 | 13.27 | 49.56 |
| 8/5/22 | 9:34 | 3394.23 | | 7.62 | | | | 10 | 34 | 91.4 | 28.8 | -0.12 | 29 | 6588 | 2 | 6590 | 659 | 39541 | | 0.9 | 12.61 | 47.00 |
| 8/5/22 | 9:44 | 3417.84 | | 7.63 | | | | 10 | 44 | 91.6 | 28.7 | -0.12 | 29 | 5454 | 2 | 5456 | 546 | 32736 | | 0.9 | 10.51 | 39.06 |
| 8/5/22 | 10:04 | 3472.5 | | 7.64 | | | | 20 | 64 | 91.7 | 28.6 | -0.12 | 29 | 12626 | 2 | 12629 | 631 | 37886 | | 0.9 | 12.24 | 45.38 |
| 8/5/22 | 10:24 | 3533.18 | | 7.68 | | | | 20 | 84 | 92.2 | 28.1 | -0.48 | 28 | 14017 | 8 | 14025 | 701 | 42076 | | 0.9 | 13.99 | 50.90 |
| 8/5/22 | 10:44 | 3574.42 | | 7.7 | | | | 20 | 104 | 92.4 | 27.8 | -0.24 | 28 | 9526 | 4 | 9531 | 477 | 28592 | | 0.9 | 9.61 | 35.00 |
| 8/5/22 | 11:14 | 3658.91 | | 7.61 | | | | 30 | 134 | 91.3 | 28.9 | 1.08 | 28 | 19517 | -19 | 19499 | 650 | 38997 | | 0.9 | 12.24 | 47.08 |
| | | | | | | | | | | | | | | | | | | | | | | |
| 8/5/22 | 11:21 | 3667.1 | | 7.80 | | | | | 141 | 93.6 | 26.6 | | | | | | | | | | | |
| 8/5/22 | 11:22 | 3669.82 | | 7.95 | | | | 1 | 142 | 95.4 | 24.8 | -1.8 | 26 | 628 | 31 | 659 | 659 | 39567 | | 0.9 | 16.03 | 52.32 |
| 8/5/22 | 11:24 | 3675.47 | | 7.95 | | | | 2 | 144 | 95.4 | 24.8 | 0 | 25 | 1305 | 0 | 1305 | 653 | 39155 | | 0.9 | 15.58 | 53.51 |
| 8/5/22 | 11:29 | 3686.71 | | 7.97 | | | | 5 | 149 | 95.6 | 24.6 | -0.24 | 25 | 2596 | 4 | 2601 | 520 | 31207 | | 0.9 | 12.63 | 42.84 |
| 8/5/22 | 11:34 | 3697.29 | | 8.00 | | | | 5 | 154 | 96.0 | 24.2 | -0.36 | 24 | 2444 | 6 | 2450 | 490 | 29402 | | 0.9 | 12.18 | 40.82 |
| 8/5/22 | 12:04 | 3769.16 | | 8.02 | | | | 30 | 184 | 96.2 | 24.0 | -0.24 | 24 | 16602 | 4 | 16606 | 554 | 33212 | | 0.9 | 13.95 | 46.64 |
| 8/5/22 | 12:34 | 3830.82 | | 8.02 | | | | 30 | 214 | 96.2 | 24.0 | 0 | 24 | 14243 | 0 | 14243 | 475 | 28487 | | 0.9 | 11.93 | 40.19 |
| 8/5/22 | 13:04 | 3899.14 | | 8.01 | | | | 30 | 244 | 96.1 | 24.1 | 0.12 | 24 | 15782 | -2 | 15780 | 526 | 31560 | | 0.9 | 13.11 | 44.42 |
| | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |

# APPENDIX B

# GEOTECHNICAL LABORATORY TEST RESULTS

# MODIFIED PROCTOR COMPACTION TEST

**ASTM D 1557**

| | | | | | |
|---|---|---|---|---|---|
| Project Name: | Centennial High School Aquatic Center Project | Tested By: | J. Gonzalez | Date: | 08/25/22 |
| Project No.: | 13624.001 | Checked By: | A. Santos | Date: | 08/29/22 |
| Boring No.: | LB-2 | Depth (ft.): | 0-5 | | |
| Sample No.: | B-1 | | | | |
| Soil Identification: | Brown clayey sand with gravel (SC)g | | | | |

Note: Corrected dry density calculation assumes specific gravity of 2.70 and moisture content of 1.0% for oversize particles

| | | | |
|---|---|---|---|
| Preparation Method: | X | Moist | |
| | | Dry | |
| Compaction Method | X | Mechanical Ram | |
| | | Manual Ram | |

| Scalp Fraction (%) | |
|---|---|
| #3/4 | |
| #3/8 | |
| #4 | 23.0 |

Rammer Weight (lb.) = 10.0

Height of Drop (in.) = 18.0

Mold Volume (ft³) 0.03330

| TEST NO. | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|
| Wt. Compacted Soil + Mold (g) | 3797 | 3977 | 3947 | | | |
| Weight of Mold (g) | 1826 | 1826 | 1826 | | | |
| Net Weight of Soil (g) | 1971 | 2151 | 2121 | | | |
| Wet Weight of Soil + Cont. (g) | 544.1 | 495.2 | 501.3 | | | |
| Dry Weight of Soil + Cont. (g) | 518.4 | 462.5 | 458.4 | | | |
| Weight of Container (g) | 38.4 | 37.0 | 38.9 | | | |
| Moisture Content (%) | 5.35 | 7.69 | 10.23 | | | |
| Wet Density (pcf) | 130.5 | 142.4 | 140.4 | | | |
| Dry Density (pcf) | 123.9 | 132.2 | 127.4 | | | |

| | | | |
|---|---|---|---|
| **Maximum Dry Density (pcf)** | **132.5** | **Optimum Moisture Content (%)** | **8.2** |
| **Corrected Dry Density (pcf)** | **139.3** | **Corrected Moisture Content (%)** | **6.5** |

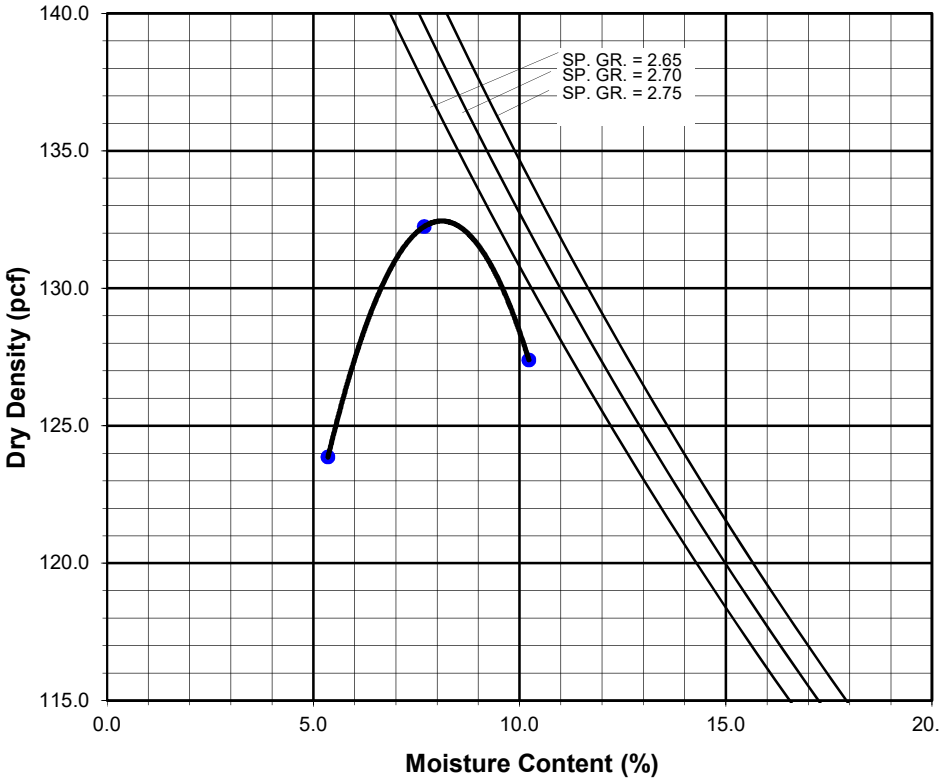
[X] **Procedure A**
Soil Passing No. 4 (4.75 mm) Sieve
Mold : 4 in. (101.6 mm) diameter
Layers : 5 (Five)
Blows per layer : 25 (twenty-five)
May be used if +#4 is 20% or less

[ ] **Procedure B**
Soil Passing 3/8 in. (9.5 mm) Sieve
Mold : 4 in. (101.6 mm) diameter
Layers : 5 (Five)
Blows per layer : 25 (twenty-five)
Use if +#4 is >20% and +3/8 in. is 20% or less

[ ] **Procedure C**
Soil Passing 3/4 in. (19.0 mm) Sieve
Mold : 6 in. (152.4 mm) diameter
Layers : 5 (Five)
Blows per layer : 56 (fifty-six)
Use if +3/8 in. is >20% and +¾ in. is <30%

**Particle-Size Distribution:**
GR:SA:FI

**Atterberg Limits:**
LL,PL,PI



| Boring No. | LB-1 | LB-1 | LB-1 | LB-2 | LB-3/IT-1 | LB-4/IT-2 | | |
|---|---|---|---|---|---|---|---|---|
| Sample No. | R-2 | R-4 | R-6 | S-1 | R-5 | R-2 | | |
| Depth (ft.) | 5 | 10 | 25 | 15 | 25 | 10 | | |
| Sample Type | Ring | Ring | Ring | SPT | Ring | Ring | | |
| Soil Identification | Brown sandy silt with gravel s(CL)g | Brown clayey sand (SC) | Brown well-graded gravel with clay and sand (GW-GC)s | Brown silty sand with gravel (SM)g | Brown sandy clay s(CL) | Olive brown well-graded sand with clay and gravel (SW-SC)g | | |
| **Moisture Correction** | | | | | | | | |
| Wet Weight of Soil + Container (g) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| Dry Weight of Soil + Container (g) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| Weight of Container (g) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | | |
| Moisture Content (%) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| **Sample Dry Weight Determination** | | | | | | | | |
| Weight of Sample + Container (g) | 524.60 | 511.30 | 852.90 | 823.00 | 629.10 | 631.20 | | |
| Weight of Container (g) | 75.50 | 77.00 | 78.40 | 76.40 | 77.00 | 82.50 | | |
| Weight of Dry Sample (g) | 449.10 | 434.30 | 774.50 | 746.60 | 552.10 | 548.70 | | |
| Container No.: | | | | | | | | |
| **After Wash** | | | | | | | | |
| Method (A or B) | A | A | A | A | A | A | | |
| Dry Weight of Sample + Cont. (g) | 294.20 | 306.80 | 760.50 | 668.90 | 261.60 | 569.00 | | |
| Weight of Container (g) | 75.50 | 77.00 | 78.40 | 76.40 | 77.00 | 82.50 | | |
| Dry Weight of Sample (g) | 218.70 | 229.80 | 682.10 | 592.50 | 184.60 | 486.50 | | |
| **% Passing No. 200 Sieve** | **51.3** | **47.1** | **11.9** | **20.6** | **66.6** | **11.3** | | |
| **% Retained No. 200 Sieve** | 48.7 | 52.9 | 88.1 | 79.4 | 33.4 | 88.7 | | |

Leighton

# PERCENT PASSING
# No. 200 SIEVE
# ASTM D 1140

Project Name: Centennial High School Aquatic Center Project

Project No.: 13624.001

Tested By: J. Domingo Date: 08/25/22

# PARTICLE-SIZE DISTRIBUTION (GRADATION) of SOILS USING SIEVE ANALYSIS

**ASTM D6913**

Project Name: Centennial High School Aquatic Center Project
Project No.: 13624.001
Boring No.: LB-2
Sample No.: B-1
Soil Identification: Brown clayey sand with gravel (SC)g

Tested By: J. Domingo Date: 08/25/22
Checked By: A. Santos Date: 08/29/22
Depth (feet): 0-5

| Calculation of Dry Weights | Whole Sample | Sample Passing #4 | Moisture Contents | Whole Sample | Sample passing #4 |
|---|---|---|---|---|---|
| Container No.: | CP-21 | 969 | Wt. of Air-Dry Soil + Cont.(g) | 0.0 | 0.0 |
| Wt. Air-Dried Soil + Cont.(g) | 3947.9 | 596.9 | Wt. of Dry Soil + Cont. (g) | 0.0 | 0.0 |
| Wt. of Container (g) | 230.4 | 109.4 | Wt. of Container No._____(g) | 1.0 | 1.0 |
| Dry Wt. of Soil (g) | 3717.5 | 487.5 | Moisture Content (%) | 0.0 | 0.0 |

| Passing #4 Material After Wet Sieve | | |
|---|---|---|
| | Container No. | 969 |
| | Wt. of Dry Soil + Container (g) | 336.4 |
| | Wt. of Container (g) | 109.4 |
| | Dry Wt. of Soil Retained on # 200 Sieve (g) | 227.0 |

| U. S. Sieve Size | | Cumulative Weight of Dry Soil Retained (g) | | Percent Passing (%) |
|---|---|---|---|---|
| | (mm.) | Whole Sample | Sample Passing #4 | |
| 3" | 75.0 | | | |
| 1 1/2" | 37.5 | | | |
| 1" | 25.0 | 0.0 | | 100.0 |
| 3/4" | 19.0 | 70.7 | | 98.1 |
| 1/2" | 12.5 | 219.4 | | 94.1 |
| 3/8" | 9.5 | 419.9 | | 88.7 |
| #4 | 4.75 | 855.8 | | 77.0 |
| #8 | 2.36 | | 32.8 | 71.8 |
| #16 | 1.18 | | 75.1 | 65.1 |
| #30 | 0.600 | | 110.6 | 59.5 |
| #50 | 0.300 | | 144.5 | 54.2 |
| #100 | 0.150 | | 179.4 | 48.7 |
| #200 | 0.075 | | 220.1 | 42.2 |
| PAN | | | | |

GRAVEL: **23 %**
SAND: **35 %**
FINES: **42 %**
GROUP SYMBOL: **(SC)g**

Cu = D60/D10 = _____
Cc = $(D30)^2/(D60*D10)$ = _____

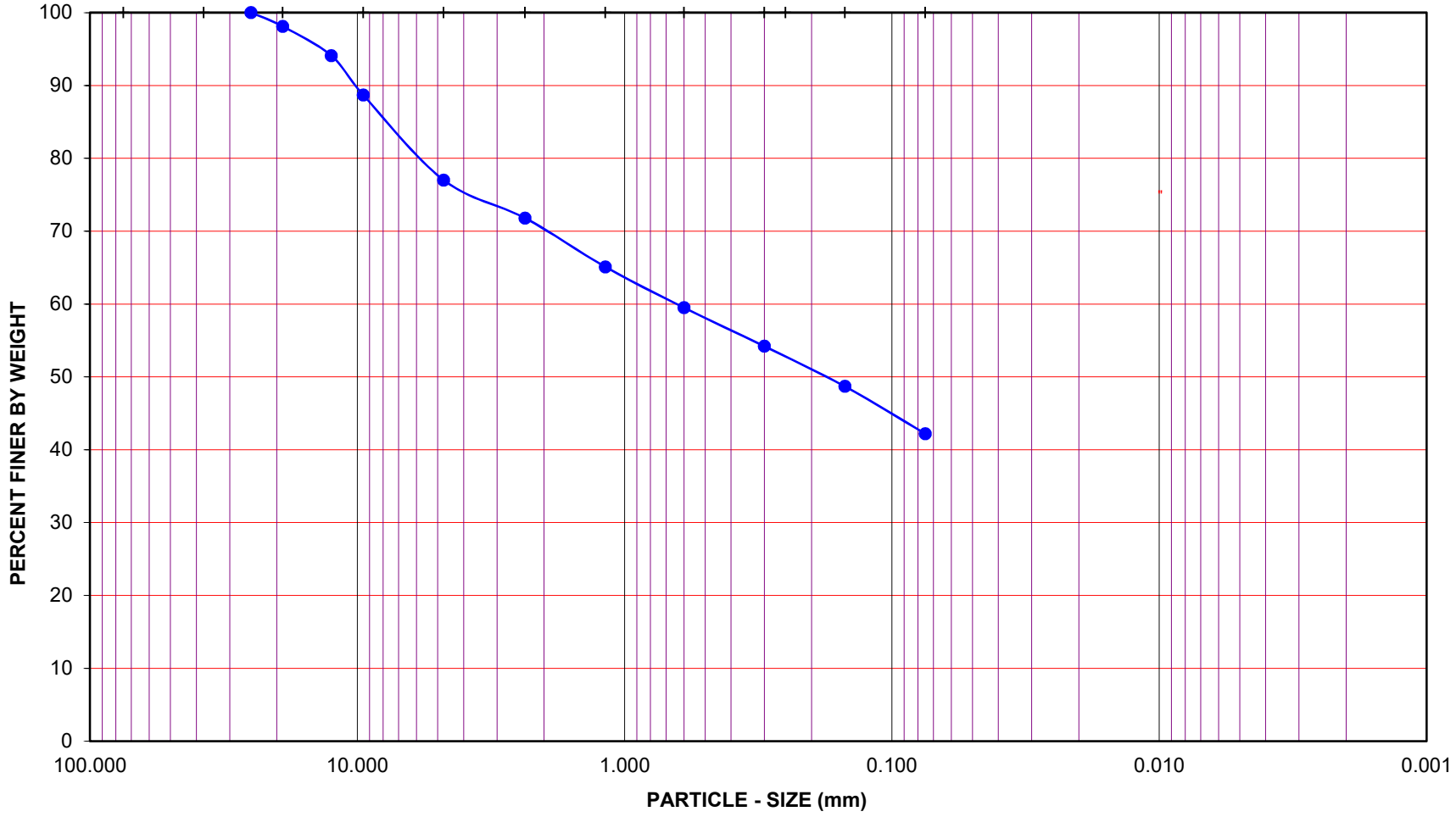
Remarks: _____

| GRAVEL | | SAND | | | FINES | |
|---|---|---|---|---|---|---|
| COARSE | FINE | COARSE | MEDIUM | FINE | SILT | CLAY |

U.S. STANDARD SIEVE OPENING: 3.0" 1 1/2" 3/4" 3/8"

U.S. STANDARD SIEVE NUMBER: #4 #8 #16 #30 #50 #100 #200

HYDROMETER




Project Name: Centennial High School Aquatic Center Project

Project No.: 13624.001

Boring No.: LB-2 Sample No.: B-1

Depth (feet): 0-5 Soil Type : (SC)g

Soil Identification: Brown clayey sand with gravel (SC)g

**GR:SA:FI : (%) 23 : 35 : 42**

Leighton

**PARTICLE - SIZE DISTRIBUTION ASTM D 6913**

Aug-22

*Sieve LB-2, B-1 @ 0-5*

# EXPANSION INDEX of SOILS
**ASTM D 4829**

| | | | | | |
|---|---|---|---|---|---|
| Project Name: | Centennial High School Aquatic Project | Tested By: | J. Gonzalez | Date: | 08/26/22 |
| Project No.: | 13624.001 | Checked By: | A. Santos | Date: | 08/29/22 |
| Boring No.: | LB-2 | Depth (ft.): | 0-5 | | |
| Sample No.: | B-1 | | | | |
| Soil Identification: | Brown clayey sand with gravel (SC)g | | | | |

| | |
|---|---|
| Dry Wt. of Soil + Cont. (g) | 1000.00 |
| Wt. of Container No. (g) | 0.00 |
| Dry Wt. of Soil (g) | 1000.00 |
| Weight Soil Retained on #4 Sieve | 0.00 |
| Percent Passing # 4 | 100.00 |

| **MOLDED SPECIMEN** | Before Test | After Test |
|---|---|---|
| Specimen Diameter (in.) | 4.01 | 4.01 |
| Specimen Height (in.) | 1.0000 | 1.0110 |
| Wt. Comp. Soil + Mold (g) | 623.80 | 434.40 |
| Wt. of Mold (g) | 204.30 | 0.00 |
| Specific Gravity (Assumed) | 2.70 | 2.70 |
| Container No. | O | O |
| Wet Wt. of Soil + Cont. (g) | 831.00 | 638.70 |
| Dry Wt. of Soil + Cont. (g) | 765.90 | 590.90 |
| Wt. of Container (g) | 0.00 | 204.30 |
| Moisture Content (%) | 8.50 | 12.36 |
| Wet Density (pcf) | 126.5 | 129.6 |
| Dry Density (pcf) | 116.6 | 115.3 |
| Void Ratio | 0.446 | 0.462 |
| Total Porosity | 0.308 | 0.316 |
| Pore Volume (cc) | 63.8 | 66.1 |
| Degree of Saturation (%) [ $S_{meas}$] | **51.5** | 72.3 |

**SPECIMEN INUNDATION** in distilled water for the period of 24 h or expansion rate < 0.0002 in./h

| Date | Time | Pressure (psi) | Elapsed Time (min.) | Dial Readings (in.) |
|---|---|---|---|---|
| 08/26/22 | 13:00 | 1.0 | 0 | 0.5270 |
| 08/26/22 | 13:10 | 1.0 | 10 | 0.5270 |
| Add Distilled Water to the Specimen | | | | |
| 08/26/22 | 15:05 | 1.0 | 115 | 0.5280 |
| 08/27/22 | 11:30 | 1.0 | 1340 | 0.5380 |
| 08/27/22 | 13:00 | 1.0 | 1430 | 0.5380 |
| | | | | |

| | |
|---|---|
| Expansion Index ($EI_{meas}$) = ((Final Rdg - Initial Rdg) / Initial Thick.) x 1000 | **11** |

# ATTERBERG LIMITS

**ASTM D 4318**

| | | | | | |
|---|---|---|---|---|---|
| Project Name: | Centennial High School Aquatic Center Project | Tested By: | J. Domingo | Date: | 08/25/22 |
| Project No. : | 13624.001 | Input By: | G. Bathala | Date: | 08/28/22 |
| Boring No.: | LB-1 | Checked By: | A. Santos | | |
| Sample No.: | R-4 | Depth (ft.) | 10.0 | | |
| Soil Identification: | Brown clayey sand (SC) | | | | |

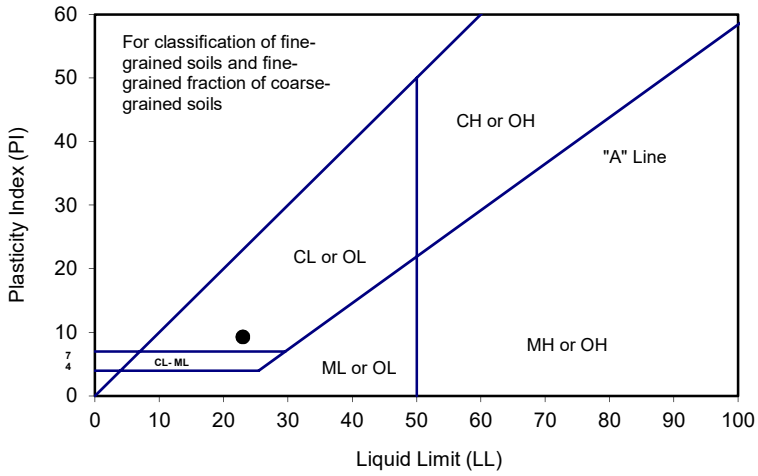
| TEST | PLASTIC LIMIT | | LIQUID LIMIT | | | |
|---|---|---|---|---|---|---|
| NO. | 1 | 2 | 1 | 2 | 3 | 4 |
| Number of Blows [N] | | | 33 | 26 | 18 | |
| Wet Wt. of Soil + Cont. (g) | 10.09 | 10.20 | 20.84 | 20.97 | 21.11 | |
| Dry Wt. of Soil + Cont. (g) | 8.99 | 9.10 | 17.30 | 17.29 | 17.30 | |
| Wt. of Container (g) | 1.02 | 1.04 | 1.08 | 1.00 | 1.12 | |
| Moisture Content (%) [Wn] | 13.80 | 13.65 | 21.82 | 22.59 | 23.55 | |

| | |
|---|---|
| **Liquid Limit** | **23** |
| **Plastic Limit** | **14** |
| **Plasticity Index** | **9** |
| **Classification** | **CL** |

PI at "A" - Line = 0.73(LL-20) 2.19

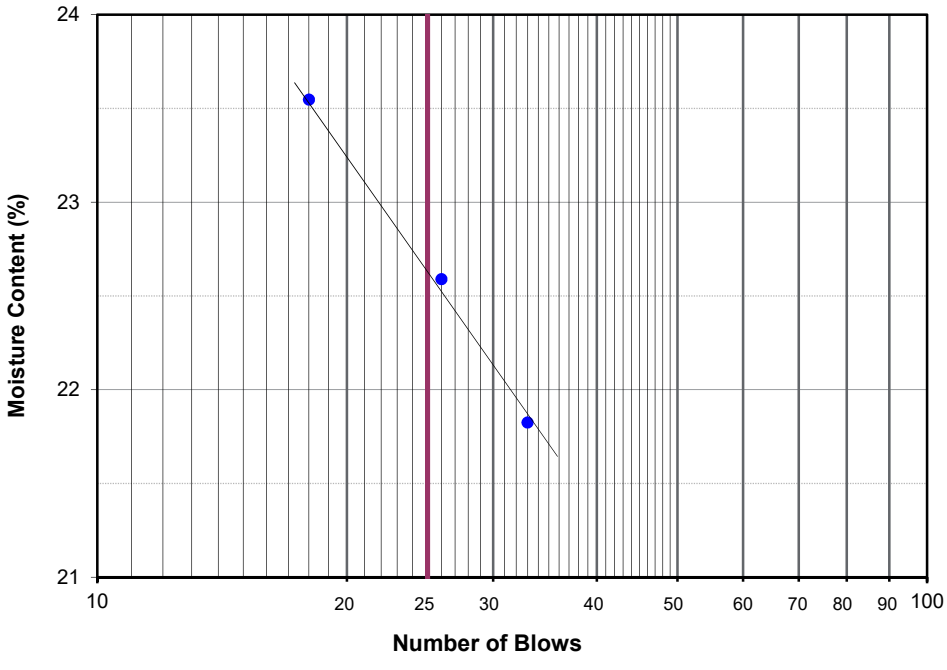
One - Point Liquid Limit Calculation

$LL = Wn(N/25)^{0.121}$




**PROCEDURES USED**

- [ ] Wet Preparation
  Multipoint - Wet
- [X] Dry Preparation
  Multipoint - Dry
- [X] Procedure A
  Multipoint Test
- [ ] Procedure B
  One-point Test



# ATTERBERG LIMITS

**ASTM D 4318**

| | | | | | |
|---|---|---|---|---|---|
| Project Name: | Centennial High School Aquatic Center Project | Tested By: | J. Domingo | Date: | 08/25/22 |
| Project No. : | 13624.001 | Input By: | G. Bathala | Date: | 08/28/22 |
| Boring No.: | LB-3/IT-1 | Checked By: | A. Santos | | |
| Sample No.: | R-5 | Depth (ft.) | 10.0 | | |
| Soil Identification: | Brown sandy lean clay s(CL) | | | | |

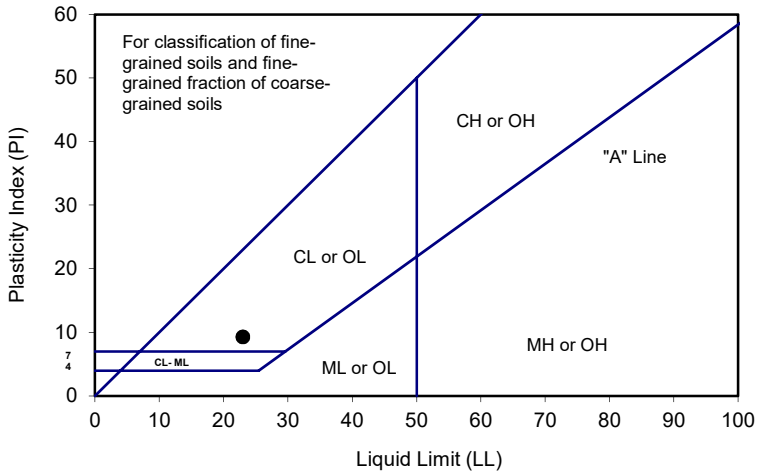
| TEST | PLASTIC LIMIT | | LIQUID LIMIT | | | |
|---|---|---|---|---|---|---|
| NO. | 1 | 2 | 1 | 2 | 3 | 4 |
| Number of Blows [N] | | | 33 | 26 | 18 | |
| Wet Wt. of Soil + Cont. (g) | 10.09 | 10.20 | 20.84 | 20.97 | 21.11 | |
| Dry Wt. of Soil + Cont. (g) | 8.99 | 9.10 | 17.30 | 17.29 | 17.30 | |
| Wt. of Container (g) | 1.02 | 1.04 | 1.08 | 1.00 | 1.12 | |
| Moisture Content (%) [Wn] | 13.80 | 13.65 | 21.82 | 22.59 | 23.55 | |

| | |
|---|---|
| **Liquid Limit** | **23** |
| **Plastic Limit** | **14** |
| **Plasticity Index** | **9** |
| **Classification** | **CL** |

PI at "A" - Line = 0.73(LL-20) 2.19

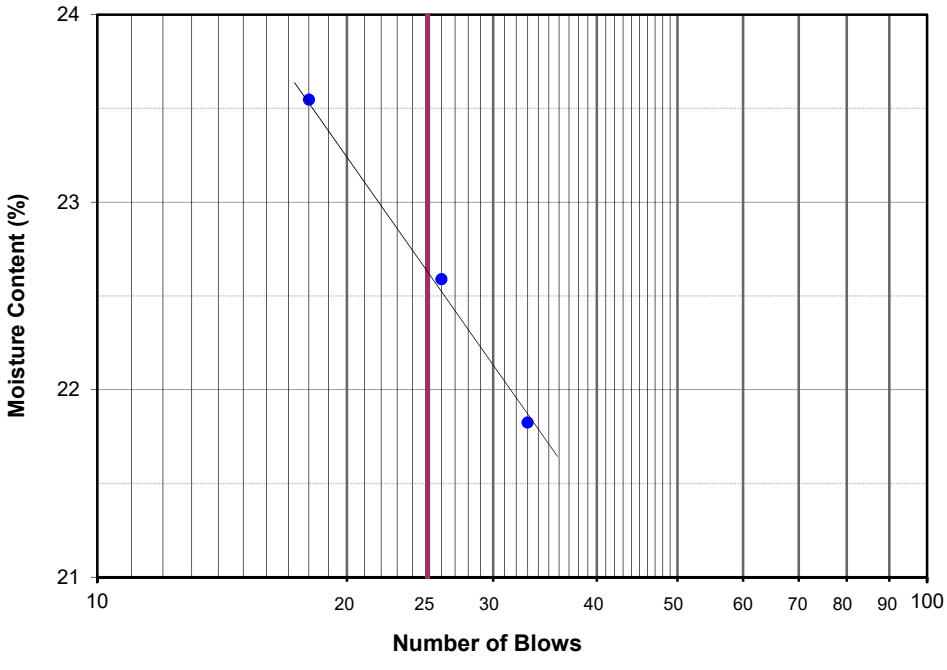
One - Point Liquid Limit Calculation

$LL = Wn(N/25)^{0.121}$




**PROCEDURES USED**

- [ ] Wet Preparation
  Multipoint - Wet
- [X] Dry Preparation
  Multipoint - Dry
- [X] Procedure A
  Multipoint Test
- [ ] Procedure B
  One-point Test

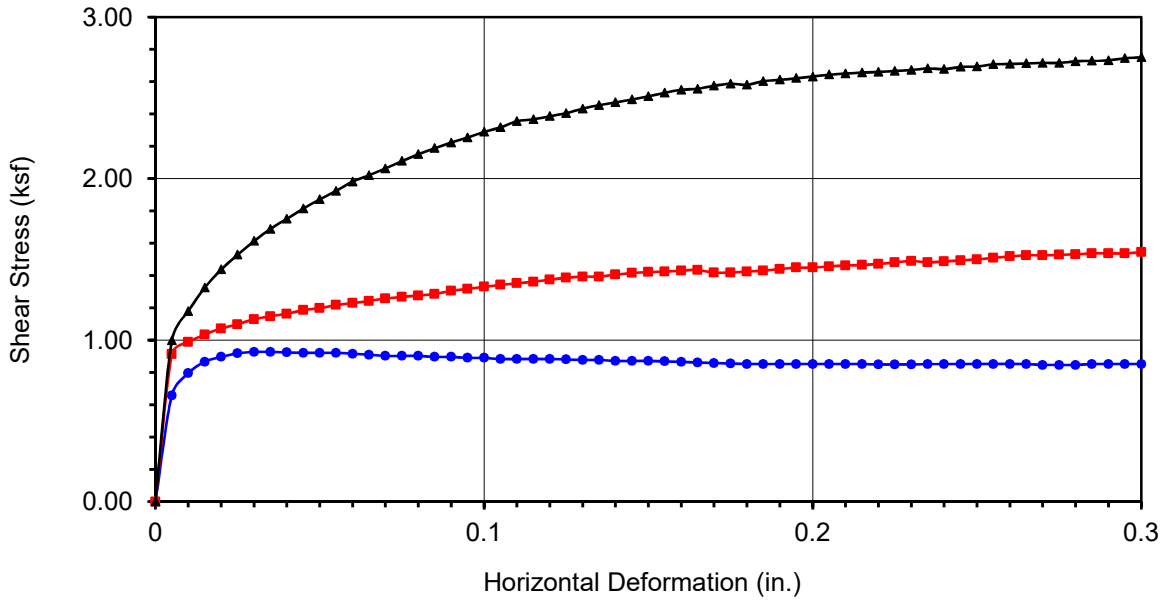


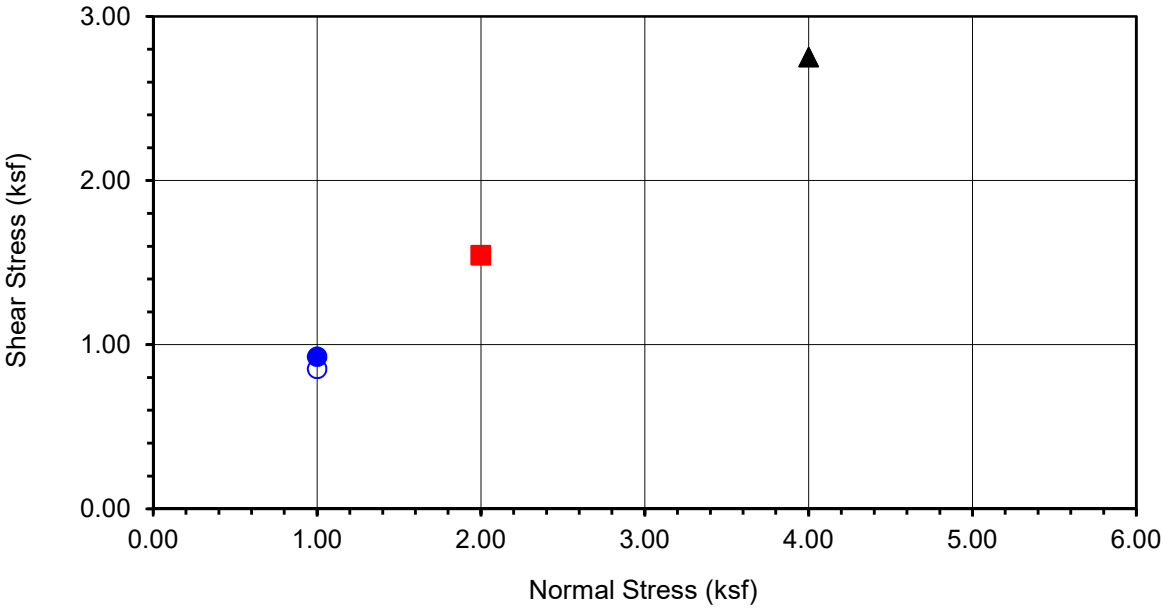
# DIRECT SHEAR TEST

**Consolidated Undrained**

| | | | | | |
|---|---|---|---|---|---|
| Project Name: | Centennial High School Aquatic Center | Tested By: | G. Bathala | Date: | 08/29/22 |
| Project No.: | 13624.001 | Checked By: | A. Santos | Date: | 08/30/22 |
| Boring No.: | LB-2 | Sample Type: | 90% Remold | | |
| Sample No.: | B-1 | Depth (ft.): | 0-5 | | |
| Soil Identification: | Brown clayey sand with gravel (SC)g | | | | |

| | | | |
|---|---|---|---|
| Sample Diameter(in): | 2.415 | 2.415 | 2.415 |
| Sample Thickness(in.): | 1.000 | 1.000 | 1.000 |
| Weight of Sample + ring(gm): | 200.98 | 201.02 | 201.80 |
| Weight of Ring(gm): | 45.46 | 45.39 | 45.41 |
| **Before Shearing** | | | |
| Weight of Wet Sample+Cont.(gm): | 182.91 | 182.91 | 182.91 |
| Weight of Dry Sample+Cont.(gm): | 174.19 | 174.19 | 174.19 |
| Weight of Container(gm): | 65.75 | 65.75 | 65.75 |
| Vertical Rdg.(in): Initial | 0.2483 | 0.2592 | 0.0000 |
| Vertical Rdg.(in): Final | 0.2532 | 0.2740 | -0.0240 |
| **After Shearing** | | | |
| Weight of Wet Sample+Cont.(gm): | 234.34 | 234.64 | 246.54 |
| Weight of Dry Sample+Cont.(gm): | 216.05 | 217.28 | 230.48 |
| Weight of Container(gm): | 75.69 | 75.47 | 88.86 |
| Specific Gravity (Assumed): | 2.70 | 2.70 | 2.70 |
| Water Density(pcf): | 62.43 | 62.43 | 62.43 |




| | |
|---|---|
| **Boring No.** | **LB-2** |
| **Sample No.** | **B-1** |
| **Depth (ft)** | **0-5** |
| Sample Type: 90% Remold | |
| Soil Identification: Brown clayey sand with gravel (SC)g | |

| Normal Stress (kip/ft²) | 1.000 | 2.000 | 4.000 |
|---|---|---|---|
| Peak Shear Stress (kip/ft²) | ● 0.927 | ■ 1.544 | ▲ 2.751 |
| Shear Stress @ End of Test (ksf) | ○ 0.852 | □ 1.544 | △ 2.751 |
| Deformation Rate (in./min.) | 0.0500 | 0.0500 | 0.0500 |
| Initial Sample Height (in.) | 1.000 | 1.000 | 1.000 |
| Diameter (in.) | 2.415 | 2.415 | 2.415 |
| Initial Moisture Content (%) | 8.04 | 8.04 | 8.04 |
| Dry Density (pcf) | 119.7 | 119.8 | 120.4 |
| Saturation (%) | 53.2 | 53.3 | 54.3 |
| Soil Height Before Shearing (in.) | 0.9951 | 0.9852 | 0.9760 |
| Final Moisture Content (%) | 13.0 | 12.2 | 11.3 |

Leighton

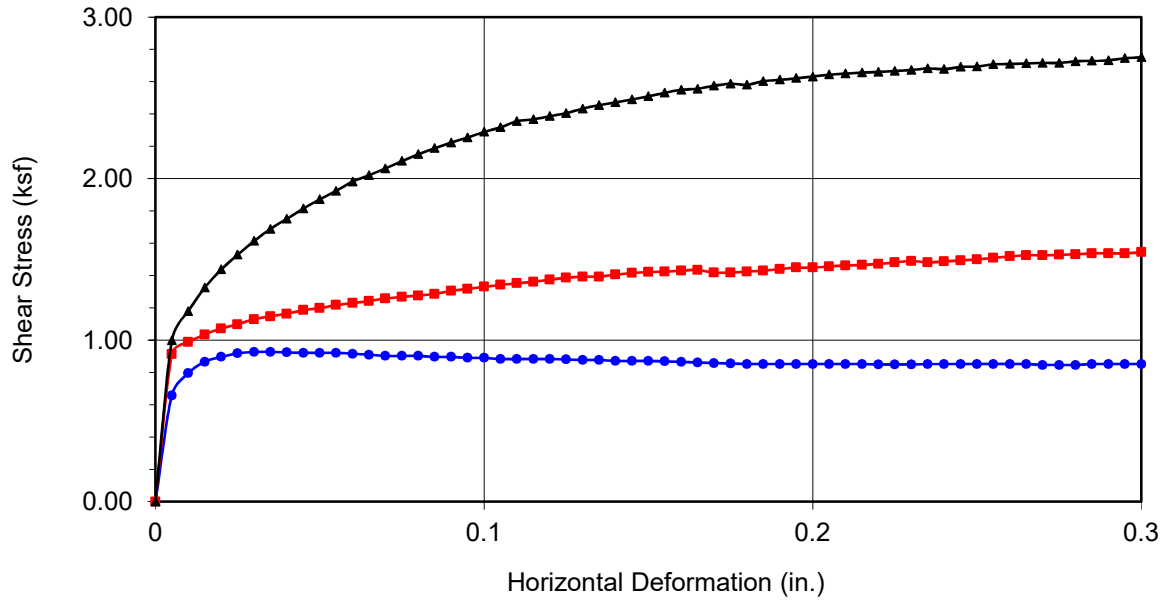
**DIRECT SHEAR TEST RESULTS**

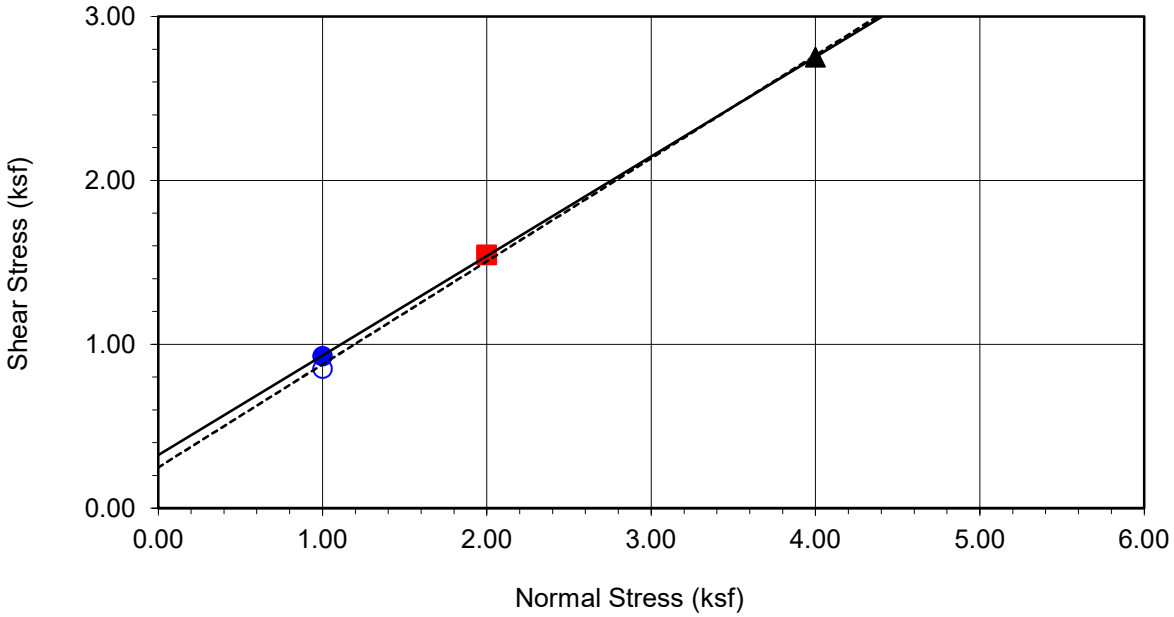
**Consolidated Undrained**

Project No.: 13624.001

Centennial High School Aquatic Center

08-22




| | |
|---|---|
| **Boring No.** | **LB-2** |
| **Sample No.** | **B-1** |
| **Depth (ft)** | **0-5** |
| Sample Type: | 90% Remold |
| Soil Identification: Brown clayey sand with gravel (SC)g | |

**Strength Parameters**

| | C (psf) | $\phi$ (°) |
|---|---|---|
| Peak | 324 | 31 |
| Ultimate | 249 | 32 |

| Normal Stress (kip/ft²) | 1.000 | 2.000 | 4.000 |
|---|---|---|---|
| Peak Shear Stress (kip/ft²) | ● 0.927 | ■ 1.544 | ▲ 2.751 |
| Shear Stress @ End of Test (ksf) | ○ 0.852 | □ 1.544 | △ 2.751 |
| Deformation Rate (in./min.) | 0.0500 | 0.0500 | 0.0500 |
| Initial Sample Height (in.) | 1.000 | 1.000 | 1.000 |
| Diameter (in.) | 2.415 | 2.415 | 2.415 |
| Initial Moisture Content (%) | 8.04 | 8.04 | 8.04 |
| Dry Density (pcf) | 119.7 | 119.8 | 120.4 |
| Saturation (%) | 53.2 | 53.3 | 54.3 |
| Soil Height Before Shearing (in.) | 0.9951 | 0.9852 | 0.9760 |
| Final Moisture Content (%) | 13.0 | 12.2 | 11.3 |

Leighton

**DIRECT SHEAR TEST RESULTS**

**Consolidated Undrained**

Project No.: 13624.001

Centennial High School Aquatic Center

08-22

# TESTS for SULFATE CONTENT
# CHLORIDE CONTENT and pH of SOILS

Project Name: Centennial High School Aquatic Center Project  Tested By : JD/GEB  Date: 08/24/22

Project No. : 13624.001  Checked By: A. Santos  Date: 08/29/22

| | | | | |
|---|---|---|---|---|
| Boring No. | LB-2 | | | |
| Sample No. | B-1 | | | |
| Sample Depth (ft) | 0-5 | | | |
| Soil Identification: | Brown (SC)g | | | |
| Wet Weight of Soil + Container (g) | 198.17 | | | |
| Dry Weight of Soil + Container (g) | 190.41 | | | |
| Weight of Container (g) | 58.30 | | | |
| Moisture Content (%) | 5.87 | | | |
| Weight of Soaked Soil (g) | 100.76 | | | |

**SULFATE CONTENT, DOT California Test 417, Part II**

| | | | | |
|---|---|---|---|---|
| Beaker No. | 94 | | | |
| Crucible No. | 5, 8 | | | |
| Furnace Temperature (°C) | 860 | | | |
| Time In / Time Out | 11:45/12:30 | | | |
| Duration of Combustion (min) | 45 | | | |
| Wt. of Crucible + Residue (g) | 38.9112 | | | |
| Wt. of Crucible (g) | 38.8996 | | | |
| Wt. of Residue (g) (A) | 0.0116 | | | |
| PPM of Sulfate (A) x 41150 | 477.34 | | | |
| **PPM of Sulfate, Dry Weight Basis** | **507** | | | |

**CHLORIDE CONTENT, DOT California Test 422**

| | | | | |
|---|---|---|---|---|
| ml of Extract For Titration (B) | 15 | | | |
| ml of AgNO3 Soln. Used in Titration (C) | 1.2 | | | |
| PPM of Chloride (C -0.2) * 100 * 30 / B | 200 | | | |
| **PPM of Chloride, Dry Wt. Basis** | **212** | | | |

**pH TEST, DOT California Test 643**

| | | | | |
|---|---|---|---|---|
| **pH Value** | **7.95** | | | |
| **Temperature °C** | 20.6 | | | |

# SOIL RESISTIVITY TEST

## DOT CA TEST 643

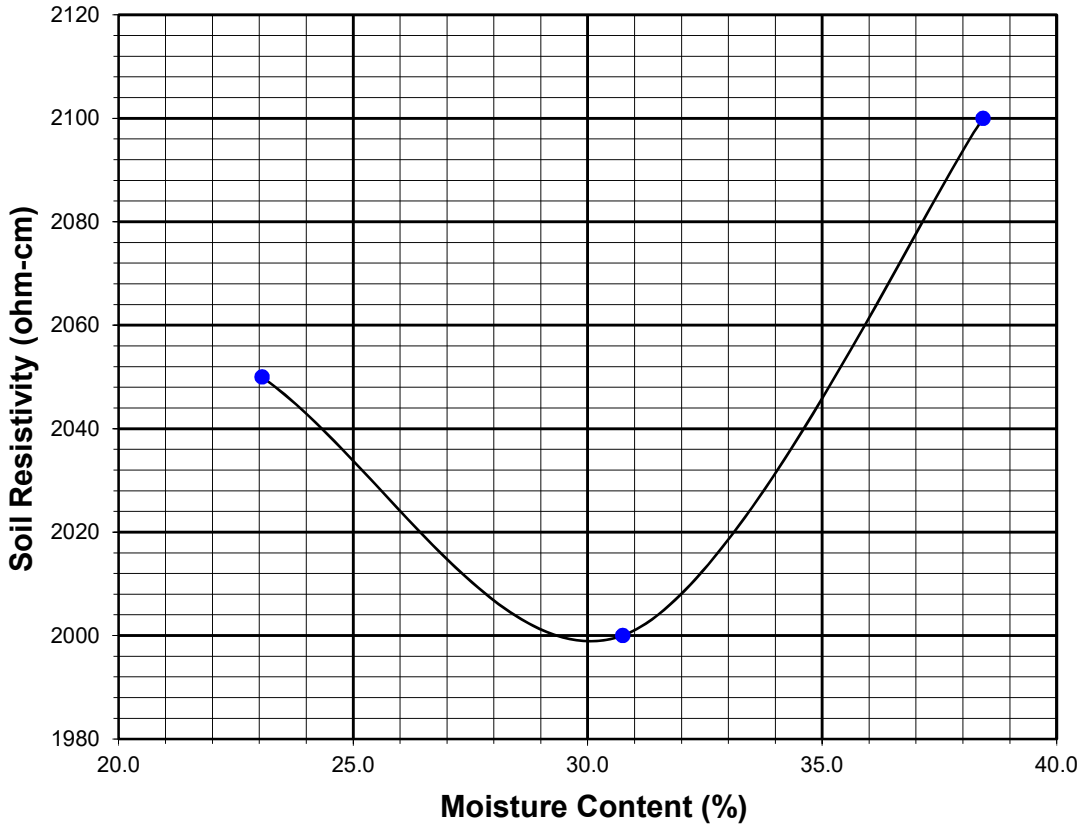
| | | | | | |
|---|---|---|---|---|---|
| Project Name: | Centennial High School Aquatic Center Projec | | Tested By : | J. Domingo | Date: 08/26/22 |
| Project No. : | 13624.001 | | Checked By: | A. Santos | Date: 08/29/22 |
| Boring No.: | LB-2 | | Depth (ft.) : | 0-5 | |
| Sample No. : | B-1 | | | | |
| Soil Identification:* | Brown (SC)g | | | | |

*California Test 643 requires soil specimens to consist only of portions of samples passing through the No. 8 US Standard Sieve before resistivity testing. Therefore, this test method may not be representative for coarser materials.

| Specimen No. | Water Added (ml) (Wa) | Adjusted Moisture Content (MC) | Resistance Reading (ohm) | Soil Resistivity (ohm-cm) |
|---|---|---|---|---|
| 1 | 30 | 23.06 | 2050 | 2050 |
| 2 | 40 | 30.75 | 2000 | 2000 |
| 3 | 50 | 38.43 | 2100 | 2100 |
| 4 | | | | |
| 5 | | | | |

| | |
|---|---|
| Moisture Content (%) (MCi) | 0.00 |
| Wet Wt. of Soil + Cont. (g) | 0.00 |
| Dry Wt. of Soil + Cont. (g) | 0.00 |
| Wt. of Container (g) | 1.00 |
| Container No. | |
| Initial Soil Wt. (g) (Wt) | 130.10 |
| Box Constant | 1.000 |
| MC =(((1+Mci/100)x(Wa/Wt+1))-1)x100 | |

| Min. Resistivity (ohm-cm) | Moisture Content (%) | Sulfate Content (ppm) | Chloride Content (ppm) | Soil pH | |
|---|---|---|---|---|---|
| | | | | pH | Temp. (°C) |
| DOT CA Test 643 | | DOT CA Test 417 Part II | DOT CA Test 422 | DOT CA Test 643 | |
| **1999** | **30.5** | **507** | **212** | **7.95** | **20.6** |



# APPENDIX C

# SUMMARY OF SEISMIC ANALYSIS

**Determination of Site Class and Estimation of Shear Wave Velocity**

Project: 13624.001 Centennial HS Aquatic Center

| Depth (ft) | di, Layer Thick (ft) | Field Blow Counts, Ni Corrected for Cs and sampler type Blows per foot (bpf) LB-1 | LB-2 | LB-3 | LB-4 | Average Ni (bpf) | Ni Hammer Corr: 1.3 | di / Ni |
|---|---|---|---|---|---|---|---|---|
| 5 | 7.5 | 4 | 8 | 31 | 14 | 14 | 19 | 0.40 |
| 10 | 5 | 10 | 12 | 41 | | 21 | 27 | 0.18 |
| 15 | 5 | 60 | 34 | 37 | | 44 | 57 | 0.09 |
| 20 | 5 | 33 | 52 | 60 | | 48 | 63 | 0.08 |
| 25 | 5 | 60 | 16 | 29 | | 35 | 46 | 0.11 |
| 30 | 5 | 28 | | | | 28 | 36 | 0.14 |
| 35 | 5 | 60 | | | | 60 | 78 | 0.06 |
| 40 | 5 | 50 | | | | 50 | 65 | 0.08 |
| 45 | 5 | 29 | | | | 29 | 38 | 0.13 |
| 50 | 7.5 | 30 | | | | 30 | 39 | 0.19 |
| 60 | 10 | 30 | *Assumed based on blowcount at 50' | | | 30 | 39 | 0.26 |
| 70 | 10 | 30 | | | | 30 | 39 | 0.26 |
| 80 | 10 | 30 | | | | 30 | 39 | 0.26 |
| 90 | 10 | 30 | | | | 30 | 39 | 0.26 |
| 100 | 5 | 30 | | | | 30 | 39 | 0.13 |
| Summatio | 100 | | | | | | | 2.62 |
| | | | | | | | **Navg = Sum(di) / Sum(di / Ni) =** | **38** |

**Extract of ASCE 7-16 Table 20.3-1 Site Classification (2019 CBC 1613A.2.2)**:

| Site Class | Soil Profile Name | Avg. N upper 100' from | to | Vs30 (ft/sec) from | to | Vs30 (m/s) from | to | Site Avg N | Interpolated vs30 (ft/s) |
|---|---|---|---|---|---|---|---|---|---|
| A | Hard Rock | - | | 5000 | 10000 | 1524 | 3048 | | |
| B | Rock | - | | 2500 | 5000 | 762 | 1524 | | |
| C | VD soil & soft rock | 50.001 | 100 | 1200 | 2500 | 366 | 762 | | |
| D | Stiff Soil | **15** | **50** | 600 | 1200 | 183 | 366 | 38 | 996 |
| E | Soft Soil | 0 | 14.999 | 0 | 600 | 0 | 183 | | |
| F | | - | - | | | 0 | 0 | | |

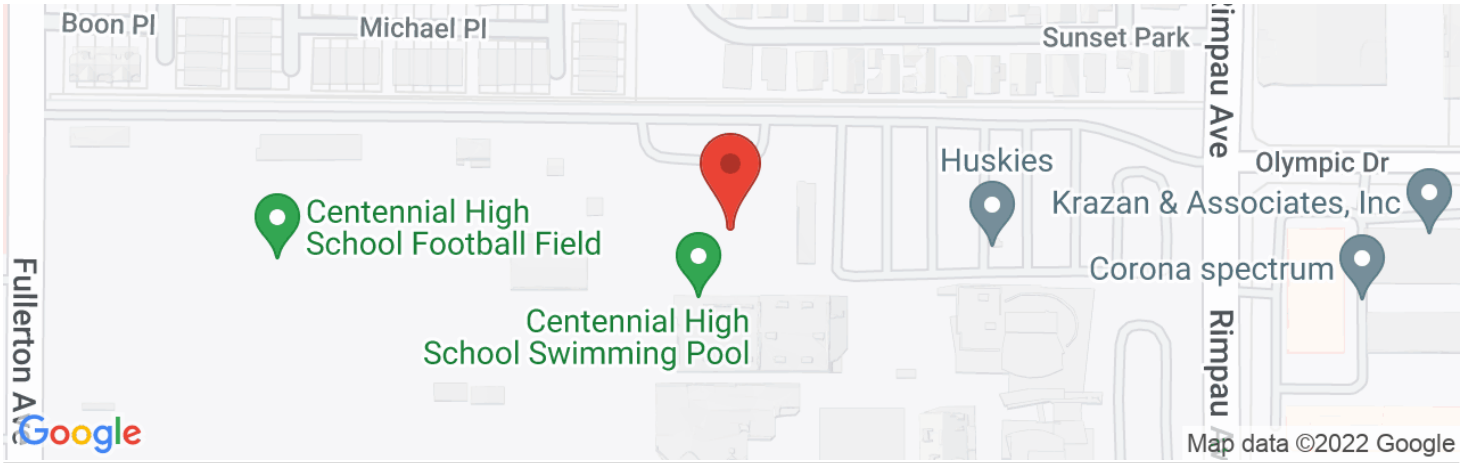
**SITE CLASS, Table 20.3-1: D**

**Estimation of Average Shear Wave Velocity in upper 100 ft (Vs30)**:

| | ft/s | m/s |
|---|---|---|
| Approx. Vs30 (interpolation of Table 20.3-1) = | 996 | 304 |
| Approx. Vs30 sands (Imai and Tonouchi, 1982) = | 1098 | 335 |
| Approx. Vs30 sands (Sykora and Stokoe, 1983) = | 935 | 285 |
| Approx. Vs30 (Maheswari, Boominathan, Dodagoudar, 2009) = | 901 | 275 |

# Centennial HS

**Latitude, Longitude: 33.8593, -117.5470**




| | |
|---|---|
| **Date** | 8/10/2022, 4:11:18 PM |
| **Design Code Reference Document** | ASCE7-16 |
| **Risk Category** | II |
| **Site Class** | D - Stiff Soil |

| Type | Value | Description |
|---|---|---|
| $S_S$ | 2.032 | $MCE_R$ ground motion. (for 0.2 second period) |
| $S_1$ | 0.799 | $MCE_R$ ground motion. (for 1.0s period) |
| $S_{MS}$ | 2.032 | Site-modified spectral acceleration value |
| $S_{M1}$ | null -See Section 11.4.8 | Site-modified spectral acceleration value |
| $S_{DS}$ | 1.354 | Numeric seismic design value at 0.2 second SA |
| $S_{D1}$ | null -See Section 11.4.8 | Numeric seismic design value at 1.0 second SA |

| Type | Value | Description |
|---|---|---|
| SDC | null -See Section 11.4.8 | Seismic design category |
| $F_a$ | 1 | Site amplification factor at 0.2 second |
| $F_v$ | null -See Section 11.4.8 | Site amplification factor at 1.0 second |
| PGA | 0.855 | $MCE_G$ peak ground acceleration |
| $F_{PGA}$ | 1.1 | Site amplification factor at PGA |
| $PGA_M$ | 0.94 | Site modified peak ground acceleration |
| $T_L$ | 8 | Long-period transition period in seconds |
| SsRT | 2.308 | Probabilistic risk-targeted ground motion. (0.2 second) |
| SsUH | 2.533 | Factored uniform-hazard (2% probability of exceedance in 50 years) spectral acceleration |
| SsD | 2.032 | Factored deterministic acceleration value. (0.2 second) |
| S1RT | 0.814 | Probabilistic risk-targeted ground motion. (1.0 second) |
| S1UH | 0.907 | Factored uniform-hazard (2% probability of exceedance in 50 years) spectral acceleration. |
| S1D | 0.799 | Factored deterministic acceleration value. (1.0 second) |
| PGAd | 0.855 | Factored deterministic acceleration value. (Peak Ground Acceleration) |
| $PGA_{UH}$ | 0.973 | Uniform-hazard (2% probability of exceedance in 50 years) Peak Ground Acceleration |
| $C_{RS}$ | 0.911 | Mapped value of the risk coefficient at short periods |
| $C_{R1}$ | 0.898 | Mapped value of the risk coefficient at a period of 1 s |
| $C_V$ | 1.5 | Vertical coefficient |

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U.S. Geological Survey - Earthquake Hazards Program

# Unified Hazard Tool

Please do not use this tool to obtain ground motion parameter values for the design code reference documents covered by the U.S. Seismic Design Maps web tools (e.g., the International Building Code and the ASCE 7 or 41 Standard). The values returned by the two applications are not identical.

## Input

Edition

Dynamic: Conterminous U.S. 2014 (update) (v4.2.0)

Spectral Period

Peak Ground Acceleration

Latitude

Decimal degrees

33.8593

Time Horizon

Return period in years

2475

Longitude

Decimal degrees, negative values for western longitudes

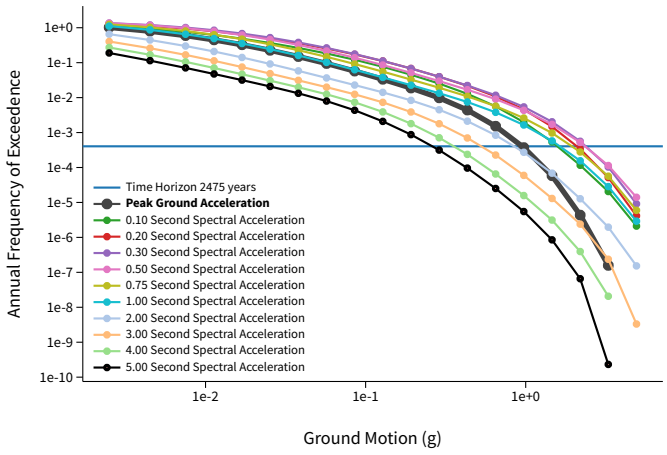
-117.547

Site Class

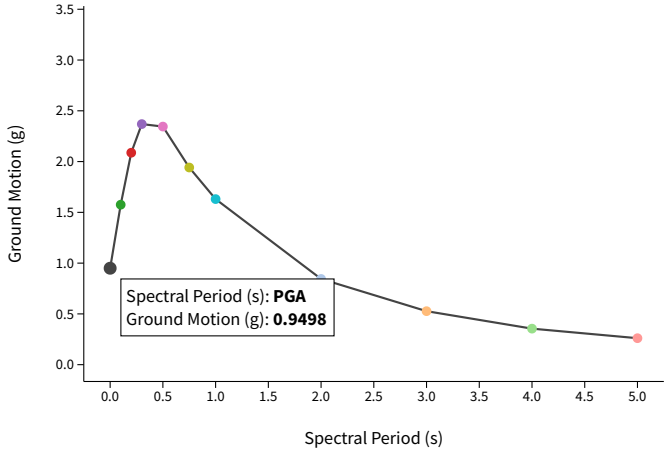
259 m/s (Site class D)

## Hazard Curve

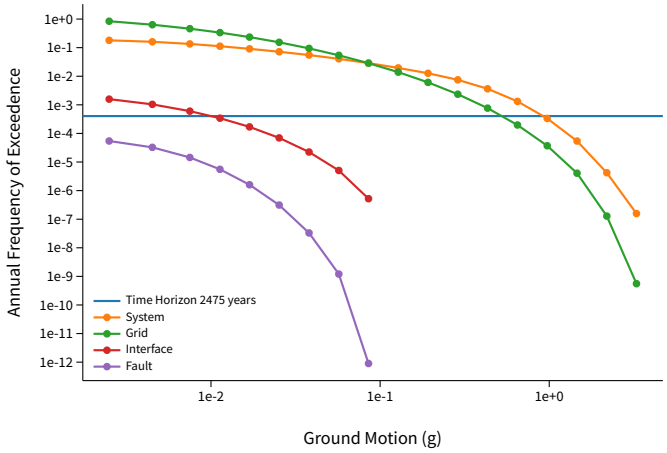
Hazard Curves




Uniform Hazard Response Spectrum




Component Curves for Peak Ground Acceleration

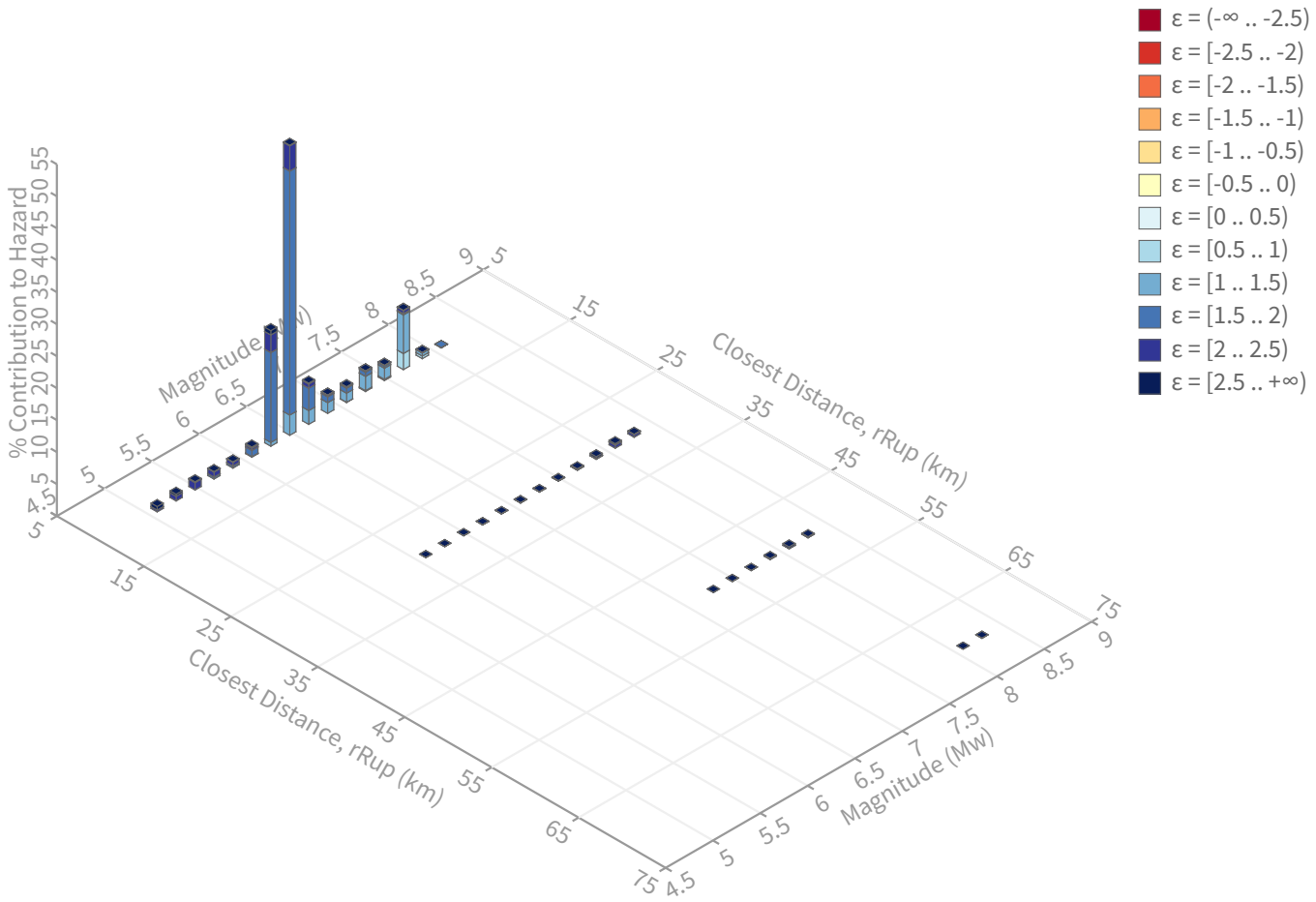



View Raw Data

## Deaggregation

Component

Total



# Summary statistics for, Deaggregation: Total

## Deaggregation targets

**Return period:** 2475 yrs
**Exceedance rate:** 0.0004040404 $yr^{-1}$
**PGA ground motion:** 0.94976326 g

## Recovered targets

**Return period:** 3005.2265 yrs
**Exceedance rate:** 0.00033275362 $yr^{-1}$

## Totals

**Binned:** 100 %
**Residual:** 0 %
**Trace:** 0.06 %

## Mean (over all sources)

**m:** 6.63
**r:** 6.23 km
**$\varepsilon_0$:** 1.68 σ

## Mode (largest m-r bin)

**m:** 6.47
**r:** 5.02 km
**$\varepsilon_0$:** 1.69 σ
**Contribution:** 45.32 %

## Mode (largest m-r-$\varepsilon_0$ bin)

**m:** 6.46
**r:** 4.96 km
**$\varepsilon_0$:** 1.65 σ
**Contribution:** 38.13 %

## Discretization

**r:** min = 0.0, max = 1000.0, Δ = 20.0 km
**m:** min = 4.4, max = 9.4, Δ = 0.2
**ε:** min = -3.0, max = 3.0, Δ = 0.5 σ

## Epsilon keys

**ε0:** [-∞ .. -2.5)
**ε1:** [-2.5 .. -2.0)
**ε2:** [-2.0 .. -1.5)
**ε3:** [-1.5 .. -1.0)
**ε4:** [-1.0 .. -0.5)
**ε5:** [-0.5 .. 0.0)
**ε6:** [0.0 .. 0.5)
**ε7:** [0.5 .. 1.0)
**ε8:** [1.0 .. 1.5)
**ε9:** [1.5 .. 2.0)
**ε10:** [2.0 .. 2.5)
**ε11:** [2.5 .. +∞]

## Deaggregation Contributors

| Source Set ↳ Source | Type | r | m | $\varepsilon_0$ | lon | lat | az | % |
|---|---|---|---|---|---|---|---|---|
| UC33brAvg_FM31 | System | | | | | | | 45.98 |
| Elsinore (Glen Ivy) rev [0] | | 4.92 | 6.68 | 1.59 | 117.572°W | 33.822°N | 208.94 | 39.16 |
| Elsinore (Glen Ivy) rev [1] | | 6.97 | 6.52 | 1.90 | 117.531°W | 33.799°N | 167.45 | 1.92 |
| Whittier alt 1 [0] | | 4.97 | 6.53 | 1.41 | 117.588°W | 33.833°N | 231.95 | 1.59 |
| Chino alt 1 [4] | | 5.46 | 6.36 | 1.79 | 117.604°W | 33.848°N | 256.60 | 1.00 |
| UC33brAvg_FM32 | System | | | | | | | 45.52 |
| Elsinore (Glen Ivy) rev [0] | | 4.92 | 6.66 | 1.60 | 117.572°W | 33.822°N | 208.94 | 35.99 |
| Chino alt 2 [3] | | 4.66 | 6.92 | 1.51 | 117.584°W | 33.833°N | 229.61 | 4.47 |
| Elsinore (Glen Ivy) rev [1] | | 6.97 | 6.55 | 1.89 | 117.531°W | 33.799°N | 167.45 | 2.04 |
| UC33brAvg_FM31 (opt) | Grid | | | | | | | 4.30 |
| PointSourceFinite: -117.547, 33.918 | | 7.74 | 5.85 | 2.02 | 117.547°W | 33.918°N | 0.00 | 1.39 |
| PointSourceFinite: -117.547, 33.918 | | 7.74 | 5.85 | 2.02 | 117.547°W | 33.918°N | 0.00 | 1.39 |
| UC33brAvg_FM32 (opt) | Grid | | | | | | | 4.20 |
| PointSourceFinite: -117.547, 33.918 | | 7.83 | 5.81 | 2.04 | 117.547°W | 33.918°N | 0.00 | 1.31 |
| PointSourceFinite: -117.547, 33.918 | | 7.83 | 5.81 | 2.04 | 117.547°W | 33.918°N | 0.00 | 1.31 |

# Liquefaction Susceptibility Analysis: SPT Method

Leighton

**Youd and Idriss (2001), Martin and Lew (1999)**

Description: Centennial HS Aquatic Center ; Case 1; PGAm 0.94; design GW 149; No overex 0
Project No.: 13624.001
Aug 2022

**General Boring Information:**

| Boring No. | Existing GW Depth (ft) | Design GW Depth (ft) | Design Fill Height (ft) | Overex. depth bgs (ft) | Ground Surface Elev (ft) | design gw elve |
|---|---|---|---|---|---|---|
| LB-1 | 196 | 149 | | 0 | 787 | 638 |
| LB-2 | 196 | 149 | | 0 | 789 | 640 |
| LB-3 | 196 | 149 | | 0 | 791 | 642 |
| LB-4 | 196 | 149 | | 0 | 791 | 642 |
| | | | | | | 0 |
| | | | | | | 0 |
| | | | | | | 0 |
| | | | | | | 0 |
| | | | | | | 0 |
| | | | | | | 0 |
| | | | | | | 0 |
| | | | | | | 0 |
| | | | | | | 0 |
| | | | | | | 0 |
| | | | | | | 0 |

| Boring Location Coordinates | |
|---|---|
| X (ft) | Y (ft) |
| 218 | 141 |
| 270 | 30 |
| 27 | 47 |
| 30 | 108 |

General Parameters:

$a_{max}$ = 0.94g
$M_W$ = 6.5
MSF eq: 1
MSF = 1.44
Hammer Efficiency = 84
$C_E$ = 1.40
$C_B$ = 1
$C_S$ for SPT? TRUE
Unlined, but room for liner
Rod Stickup (feet) = 3
Ring sample correction = 0.65

# Summary of Liquefaction Susceptibility Analysis: SPT Method

Leighton

**Liquefaction Method: Youd and Idriss (2001). Seismic Settlement Method: Tokimatsu and Seed (1987) and Martin and Lew (1999).**

Project: Centennial HS Aquatic Center ; Case 1; PGAm 0.94; design GW 149; No overex 0

Project No.: 13624.001

| Boring No. | Approx. Layer Depth (ft) | SPT Depth (ft) | Approx Layer Thick-ness (ft) | Plasticity ("n"=non susc. to liq.) | Estimated Fines Cont (%) | $\gamma_t$ (pcf) | $N_m$ or B (blows/ft) | Sampler Type (enter 2 if mod CA Ring) | Cs | $N_m$ (corrected for Cs and ring->SPT) (blows/ft) | Exist $\sigma_{vo}$' (psf) | $(N_1)_{60}$ | $(N_1)_{60CS}$ | **$CRR_{7.5}$** | Design $\sigma_{vo}$' (psf) | $CSR_{7.5}$ | $CSR_M$ | **Liquefaction Factor of Safety** | $(N_1)_{60CS}$ (for Settle-ment) (blows/ft) | Dry Sand Strain (%) (Tok/ Seed 87) (%) | Sat Sand Strain (%) (Tok/ Seed 87) (%) | Seismic Sett. of Layer (in.) | **Cummulative Seismic Settlement** (in.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LB-1 | 0 to 3.8 | 2.5 | 3.8 | | 30 | 120 | 15 | 2 | 1 | 9.8 | 300 | 17.4 | 24.8 | 0.288 | 300 | 0.61 | 0.42 | **NonLiq** | 24.8 | 0.36 | | 0.16 | 1.5 |
| LB-1 | 3.8 to 6.3 | 5 | 2.5 | | **51** | 120 | 7 | 2 | 1 | 4.6 | 600 | 8.1 | **14.7** | 0.158 | 600 | 0.60 | 0.42 | **NonLiq** | 14.7 | 1.91 | | 0.57 | 1.3 |
| LB-1 | 6.3 to 8.8 | 7.5 | 2.5 | | 55 | 120 | 19 | 2 | 1 | 12.4 | 900 | 21.1 | 30.3 | >Range | 900 | 0.60 | 0.42 | **NonLiq** | 30.3 | 0.26 | | 0.08 | 0.7 |
| LB-1 | 8.8 to 12.5 | 10 | 3.8 | | **47** | 120 | 16 | 2 | 1 | 10.4 | 1200 | 16.3 | 24.6 | 0.284 | 1200 | 0.60 | 0.41 | **NonLiq** | 24.6 | 0.80 | | 0.36 | 0.7 |
| LB-1 | 12.5 to 17.5 | 15 | 5.0 | | 65 | 120 | 100 | 2 | 1 | 65.0 | 1800 | 83.3 | 105.0 | >Range | 1800 | 0.59 | 0.41 | **NonLiq** | 105.0 | 0.02 | | 0.01 | 0.3 |
| LB-1 | 17.5 to 22.5 | 20 | 5.0 | | 25 | 120 | 33 | 1 | 1.3 | 42.9 | 2400 | 53.2 | 63.6 | >Range | 2400 | 0.58 | 0.40 | **NonLiq** | 63.6 | 0.06 | | 0.04 | 0.3 |
| LB-1 | 22.5 to 27.5 | 25 | 5.0 | | **12** | 120 | 100 | 2 | 1 | 65.0 | 3000 | 72.1 | 76.0 | >Range | 3000 | 0.58 | 0.40 | **NonLiq** | 76.0 | 0.07 | | 0.04 | 0.2 |
| LB-1 | 27.5 to 32.5 | 30 | 5.0 | | 15 | 120 | 28 | 1 | 1.3 | 36.4 | 3600 | 38.8 | 43.2 | >Range | 3600 | 0.57 | 0.39 | **NonLiq** | 43.2 | 0.07 | | 0.04 | 0.2 |
| LB-1 | 32.5 to 37.5 | 35 | 5.0 | | 15 | 120 | 100 | 2 | 1 | 65.0 | 4200 | 64.2 | 69.7 | >Range | 4200 | 0.54 | 0.38 | **NonLiq** | 69.7 | 0.05 | | 0.03 | 0.2 |
| LB-1 | 37.5 to 42.5 | 40 | 5.0 | | 15 | 120 | 50 | 1 | 1.3 | 65.0 | 4800 | 60.0 | 65.4 | >Range | 4800 | 0.52 | 0.36 | **NonLiq** | 65.4 | 0.05 | | 0.03 | 0.1 |
| LB-1 | 42.5 to 47.5 | 45 | 5.0 | | 10 | 120 | 78 | 2 | 1 | 50.7 | 5400 | 44.1 | 46.0 | >Range | 5400 | 0.49 | 0.34 | **NonLiq** | 46.0 | 0.08 | | 0.05 | 0.1 |
| LB-1 | 47.5 to 52.0 | 50 | 4.5 | | 55 | 120 | 30 | 1 | 1.3 | 39.0 | 6000 | 32.2 | 43.7 | >Range | 6000 | 0.47 | 0.33 | **NonLiq** | 43.7 | 0.09 | | 0.05 | 0.0 |
| LB-2 | 0 to 3.8 | 2.5 | 3.8 | | **42** | 120 | 20 | 2 | 1 | 13.0 | 300 | 23.2 | 32.8 | >Range | 300 | 0.61 | 0.42 | **NonLiq** | 32.8 | 0.12 | | 0.05 | 1.2 |
| LB-2 | 3.8 to 6.3 | 5 | 2.5 | | 55 | 120 | 13 | 2 | 1 | 8.5 | 600 | 15.1 | 23.1 | 0.259 | 600 | 0.60 | 0.42 | **NonLiq** | 23.1 | 0.84 | | 0.25 | 1.1 |
| LB-2 | 6.3 to 8.8 | 7.5 | 2.5 | | 55 | 120 | 21 | 2 | 1 | 13.7 | 900 | 23.3 | 32.9 | >Range | 900 | 0.60 | 0.42 | **NonLiq** | 32.9 | 0.24 | | 0.07 | 0.9 |
| LB-2 | 8.8 to 12.5 | 10 | 3.8 | | 55 | 120 | 20 | 2 | 1 | 13.0 | 1200 | 20.4 | 29.5 | 0.435 | 1200 | 0.60 | 0.41 | **NonLiq** | 29.5 | 0.70 | | 0.32 | 0.8 |
| LB-2 | 12.5 to 17.5 | 15 | 5.0 | | **21** | 120 | 34 | 1 | 1.3 | 44.2 | 1800 | 56.6 | 65.3 | >Range | 1800 | 0.59 | 0.41 | **NonLiq** | 65.3 | 0.03 | | 0.02 | 0.5 |
| LB-2 | 17.5 to 22.5 | 20 | 5.0 | | 65 | 120 | 87 | 2 | 1 | 56.6 | 2400 | 70.2 | 89.2 | >Range | 2400 | 0.58 | 0.40 | **NonLiq** | 89.2 | 0.04 | | 0.02 | 0.5 |
| LB-2 | 22.5 to 27.0 | 25 | 4.5 | | 25 | 120 | 16 | 1 | 1.22 | 19.4 | 3000 | 21.6 | 28.3 | 0.382 | 3000 | 0.58 | 0.40 | **NonLiq** | 28.3 | 0.84 | | 0.45 | 0.5 |
| LB-3 | 0 to 7.5 | 5 | 7.5 | | 15 | 120 | 51 | 2 | 1 | 33.2 | 600 | 59.2 | 64.5 | >Range | 600 | 0.60 | 0.42 | **NonLiq** | 64.5 | 0.07 | | 0.07 | 0.2 |
| LB-3 | 7.5 to 12.5 | 10 | 5.0 | | 15 | 120 | 69 | 2 | 1 | 44.9 | 1200 | 70.4 | 76.3 | >Range | 1200 | 0.60 | 0.41 | **NonLiq** | 76.3 | 0.05 | | 0.03 | 0.1 |
| LB-3 | 12.5 to 17.5 | 15 | 5.0 | | 25 | 120 | 61 | 2 | 1 | 39.7 | 1800 | 50.8 | 61.0 | >Range | 1800 | 0.59 | 0.41 | **NonLiq** | 61.0 | 0.04 | | 0.02 | 0.1 |
| LB-3 | 17.5 to 21.8 | 20 | 4.3 | | 65 | 120 | 100 | 2 | 1 | 65.0 | 2400 | 80.6 | 101.8 | >Range | 2400 | 0.58 | 0.40 | **NonLiq** | 101.8 | 0.03 | | 0.02 | 0.1 |
| LB-3 | 21.8 to 25.5 | 23.5 | 3.8 | | **67** | 120 | 49 | 2 | 1 | 31.9 | 2820 | 36.5 | 48.7 | >Range | 2820 | 0.58 | 0.40 | **NonLiq** | 48.7 | 0.12 | | 0.05 | 0.1 |
| LB-4 | 0 to 7.5 | 5 | 7.5 | | 15 | 120 | 23 | 2 | 1 | 15.0 | 600 | 26.7 | 30.5 | >Range | 600 | 0.60 | 0.42 | **NonLiq** | 30.5 | 0.45 | | 0.41 | 0.9 |
| LB-4 | 7.5 to 12.0 | 10 | 4.5 | | **11** | 120 | 18 | 2 | 1 | 11.7 | 1200 | 18.4 | 20.1 | 0.216 | 1200 | 0.60 | 0.41 | **NonLiq** | 20.1 | 0.85 | | 0.46 | 0.5 |

# Liquefaction Susceptibility Analysis: SPT Method

Leighton

**Youd and Idriss (2001), Martin and Lew (1999)**

Description: Centennial HS Aquatic Center ; Case 3; PGAm 0.94; design GW 149; Overex./scarify 5

Project No.: 13624.001

Aug 2022

**General Boring Information:**

| Boring No. | Existing GW Depth (ft) | Design GW Depth (ft) | Design Fill Height (ft) | Overex. depth bgs (ft) | Ground Surface Elev (ft) | design gw elve |
|---|---|---|---|---|---|---|
| LB-1 | 196 | 149 | | 5 | 787 | 638 |
| LB-2 | 196 | 149 | | 5 | 789 | 640 |
| LB-3 | 196 | 149 | | 5 | 791 | 642 |
| LB-4 | 196 | 149 | | 5 | 791 | 642 |
| | | | | | | 0 |
| | | | | | | 0 |
| | | | | | | 0 |
| | | | | | | 0 |
| | | | | | | 0 |
| | | | | | | 0 |
| | | | | | | 0 |
| | | | | | | 0 |
| | | | | | | 0 |
| | | | | | | 0 |
| | | | | | | 0 |

| Boring Location Coordinates | |
|---|---|
| X (ft) | Y (ft) |
| 218 | 141 |
| 270 | 30 |
| 27 | 47 |
| 30 | 108 |

General Parameters:

$a_{max}$ = 0.94g

$M_W$ = 6.5

MSF eq: 1

MSF = 1.44

Hammer Efficiency = 84

$C_E$ = 1.40

$C_B$ = 1

$C_S$ for SPT? TRUE

Unlined, but room for liner

Rod Stickup (feet) = 3

Ring sample correction = 0.65

# Summary of Liquefaction Susceptibility Analysis: SPT Method

Leighton

**Liquefaction Method: Youd and Idriss (2001). Seismic Settlement Method: Tokimatsu and Seed (1987) and Martin and Lew (1999).**

Project: Centennial HS Aquatic Center ; Case 3; PGAm 0.94; design GW 149; Overex./scarify 5

Project No.: 13624.001

| Boring No. | Approx. Layer Depth (ft) | SPT Depth (ft) | Approx Layer Thick-ness (ft) | Plasticity ("n"=non susc. to liq.) | Estimated Fines Cont (%) | $\gamma_t$ (pcf) | $N_m$ or B (blows/ft) | Sampler Type (enter 2 if mod CA Ring) | Cs | $N_m$ (corrected for Cs and ring->SPT) (blows/ft) | Exist $\sigma_{vo}$' (psf) | $(N_1)_{60}$ | $(N_1)_{60CS}$ | **$CRR_{7.5}$** | Design $\sigma_{vo}$' (psf) | $CSR_{7.5}$ | $CSR_M$ | **Liquefaction Factor of Safety** | $(N_1)_{60CS}$ (for Settle-ment) (blows/ft) | Dry Sand Strain (%) (Tok/ Seed 87) (%) | Sat Sand Strain (%) (Tok/ Seed 87) (%) | Seismic Sett. of Layer (in.) | **Cummulative Seismic Settlement** (in.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LB-1 | 0 to 3.8 | 2.5 | 3.8 | OX | 30 | 120 | 50 | 1 | 1.3 | 65.0 | 300 | 116.0 | 138.6 | >Range | 300 | 0.61 | 0.42 | **NonLiq** | 138.6 | 0.00 | | 0.00 | 1.0 |
| LB-1 | 3.8 to 5.0 | 5 | 1.3 | OX | **51** | 120 | 50 | 1 | 1.3 | 65.0 | 600 | 116.0 | 144.2 | >Range | 600 | 0.60 | 0.42 | **NonLiq** | 144.2 | 0.00 | | 0.00 | 1.0 |
| LB-1 | 5.0 to 6.3 | 5 | 1.3 | | **51** | 120 | 7 | 2 | 1 | 4.6 | 600 | 8.1 | **14.7** | 0.158 | 600 | 0.60 | 0.42 | **NonLiq** | 14.7 | 1.91 | | 0.29 | 1.0 |
| LB-1 | 6.3 to 8.8 | 7.5 | 2.5 | | 55 | 120 | 19 | 2 | 1 | 12.4 | 900 | 21.1 | 30.3 | >Range | 900 | 0.60 | 0.42 | **NonLiq** | 30.3 | 0.26 | | 0.08 | 0.7 |
| LB-1 | 8.8 to 12.5 | 10 | 3.8 | | **47** | 120 | 16 | 2 | 1 | 10.4 | 1200 | 16.3 | 24.6 | 0.284 | 1200 | 0.60 | 0.41 | **NonLiq** | 24.6 | 0.80 | | 0.36 | 0.7 |
| LB-1 | 12.5 to 17.5 | 15 | 5.0 | | 65 | 120 | 100 | 2 | 1 | 65.0 | 1800 | 83.3 | 105.0 | >Range | 1800 | 0.59 | 0.41 | **NonLiq** | 105.0 | 0.02 | | 0.01 | 0.3 |
| LB-1 | 17.5 to 22.5 | 20 | 5.0 | | 25 | 120 | 33 | 1 | 1.3 | 42.9 | 2400 | 53.2 | 63.6 | >Range | 2400 | 0.58 | 0.40 | **NonLiq** | 63.6 | 0.06 | | 0.04 | 0.3 |
| LB-1 | 22.5 to 27.5 | 25 | 5.0 | | **12** | 120 | 100 | 2 | 1 | 65.0 | 3000 | 72.1 | 76.0 | >Range | 3000 | 0.58 | 0.40 | **NonLiq** | 76.0 | 0.07 | | 0.04 | 0.2 |
| LB-1 | 27.5 to 32.5 | 30 | 5.0 | | 15 | 120 | 28 | 1 | 1.3 | 36.4 | 3600 | 38.8 | 43.2 | >Range | 3600 | 0.57 | 0.39 | **NonLiq** | 43.2 | 0.07 | | 0.04 | 0.2 |
| LB-1 | 32.5 to 37.5 | 35 | 5.0 | | 15 | 120 | 100 | 2 | 1 | 65.0 | 4200 | 64.2 | 69.7 | >Range | 4200 | 0.54 | 0.38 | **NonLiq** | 69.7 | 0.05 | | 0.03 | 0.2 |
| LB-1 | 37.5 to 42.5 | 40 | 5.0 | | 15 | 120 | 50 | 1 | 1.3 | 65.0 | 4800 | 60.0 | 65.4 | >Range | 4800 | 0.52 | 0.36 | **NonLiq** | 65.4 | 0.05 | | 0.03 | 0.1 |
| LB-1 | 42.5 to 47.5 | 45 | 5.0 | | 10 | 120 | 78 | 2 | 1 | 50.7 | 5400 | 44.1 | 46.0 | >Range | 5400 | 0.49 | 0.34 | **NonLiq** | 46.0 | 0.08 | | 0.05 | 0.1 |
| LB-1 | 47.5 to 52.0 | 50 | 4.5 | | 55 | 120 | 30 | 1 | 1.3 | 39.0 | 6000 | 32.2 | 43.7 | >Range | 6000 | 0.47 | 0.33 | **NonLiq** | 43.7 | 0.09 | | 0.05 | 0.0 |
| LB-2 | 0 to 3.8 | 2.5 | 3.8 | OX | **42** | 120 | 50 | 1 | 1.3 | 65.0 | 300 | 116.0 | 144.2 | >Range | 300 | 0.61 | 0.42 | **NonLiq** | 144.2 | 0.00 | | 0.00 | 1.0 |
| LB-2 | 3.8 to 5.0 | 5 | 1.3 | OX | 55 | 120 | 50 | 1 | 1.3 | 65.0 | 600 | 116.0 | 144.2 | >Range | 600 | 0.60 | 0.42 | **NonLiq** | 144.2 | 0.00 | | 0.00 | 1.0 |
| LB-2 | 5.0 to 6.3 | 5 | 1.3 | | 55 | 120 | 13 | 2 | 1 | 8.5 | 600 | 15.1 | 23.1 | 0.259 | 600 | 0.60 | 0.42 | **NonLiq** | 23.1 | 0.84 | | 0.13 | 1.0 |
| LB-2 | 6.3 to 8.8 | 7.5 | 2.5 | | 55 | 120 | 21 | 2 | 1 | 13.7 | 900 | 23.3 | 32.9 | >Range | 900 | 0.60 | 0.42 | **NonLiq** | 32.9 | 0.24 | | 0.07 | 0.9 |
| LB-2 | 8.8 to 12.5 | 10 | 3.8 | | 55 | 120 | 20 | 2 | 1 | 13.0 | 1200 | 20.4 | 29.5 | 0.435 | 1200 | 0.60 | 0.41 | **NonLiq** | 29.5 | 0.70 | | 0.32 | 0.8 |
| LB-2 | 12.5 to 17.5 | 15 | 5.0 | | **21** | 120 | 34 | 1 | 1.3 | 44.2 | 1800 | 56.6 | 65.3 | >Range | 1800 | 0.59 | 0.41 | **NonLiq** | 65.3 | 0.03 | | 0.02 | 0.5 |
| LB-2 | 17.5 to 22.5 | 20 | 5.0 | | 65 | 120 | 87 | 2 | 1 | 56.6 | 2400 | 70.2 | 89.2 | >Range | 2400 | 0.58 | 0.40 | **NonLiq** | 89.2 | 0.04 | | 0.02 | 0.5 |
| LB-2 | 22.5 to 27.0 | 25 | 4.5 | | 25 | 120 | 16 | 1 | 1.22 | 19.4 | 3000 | 21.6 | 28.3 | 0.382 | 3000 | 0.58 | 0.40 | **NonLiq** | 28.3 | 0.84 | | 0.45 | 0.5 |
| LB-3 | 0 to 5.0 | 5 | 5.0 | OX | 15 | 120 | 50 | 1 | 1.3 | 65.0 | 600 | 116.0 | 124.1 | >Range | 600 | 0.60 | 0.42 | **NonLiq** | 124.1 | 0.00 | | 0.00 | 0.1 |
| LB-3 | 5.0 to 7.5 | 5 | 2.5 | | 15 | 120 | 51 | 2 | 1 | 33.2 | 600 | 59.2 | 64.5 | >Range | 600 | 0.60 | 0.42 | **NonLiq** | 64.5 | 0.07 | | 0.02 | 0.1 |
| LB-3 | 7.5 to 12.5 | 10 | 5.0 | | 15 | 120 | 69 | 2 | 1 | 44.9 | 1200 | 70.4 | 76.3 | >Range | 1200 | 0.60 | 0.41 | **NonLiq** | 76.3 | 0.05 | | 0.03 | 0.1 |
| LB-3 | 12.5 to 17.5 | 15 | 5.0 | | 25 | 120 | 61 | 2 | 1 | 39.7 | 1800 | 50.8 | 61.0 | >Range | 1800 | 0.59 | 0.41 | **NonLiq** | 61.0 | 0.04 | | 0.02 | 0.1 |
| LB-3 | 17.5 to 21.8 | 20 | 4.3 | | 65 | 120 | 100 | 2 | 1 | 65.0 | 2400 | 80.6 | 101.8 | >Range | 2400 | 0.58 | 0.40 | **NonLiq** | 101.8 | 0.03 | | 0.02 | 0.1 |
| LB-3 | 21.8 to 25.5 | 23.5 | 3.8 | | **67** | 120 | 49 | 2 | 1 | 31.9 | 2820 | 36.5 | 48.7 | >Range | 2820 | 0.58 | 0.40 | **NonLiq** | 48.7 | 0.12 | | 0.05 | 0.1 |
| LB-4 | 0 to 5.0 | 5 | 5.0 | OX | 15 | 120 | 50 | 1 | 1.3 | 65.0 | 600 | 116.0 | 124.1 | >Range | 600 | 0.60 | 0.42 | **NonLiq** | 124.1 | 0.00 | | 0.00 | 0.6 |
| LB-4 | 5.0 to 7.5 | 5 | 2.5 | | 15 | 120 | 23 | 2 | 1 | 15.0 | 600 | 26.7 | 30.5 | >Range | 600 | 0.60 | 0.42 | **NonLiq** | 30.5 | 0.45 | | 0.14 | 0.6 |
| LB-4 | 7.5 to 12.0 | 10 | 4.5 | | **11** | 120 | 18 | 2 | 1 | 11.7 | 1200 | 18.4 | 20.1 | 0.216 | 1200 | 0.60 | 0.41 | **NonLiq** | 20.1 | 0.85 | | 0.46 | 0.5 |

# APPENDIX D

# EARTHWORK AND GRADING GUIDE SPECIFICATIONS

Leighton

LEIGHTON CONSULTING, INC.

# GENERAL EARTHWORK AND GRADING SPECIFICATIONS FOR ROUGH GRADING

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## 1.0 General

1.1 Intent: These General Earthwork and Grading Specifications are for the grading and earthwork shown on the approved grading plan(s) and/or indicated in the geotechnical report(s). These Specifications are a part of the recommendations contained in the geotechnical report(s). In case of conflict, the specific recommendations in the geotechnical report shall supersede these more general Specifications. Observations of the earthwork by the project Geotechnical Consultant during the course of grading may result in new or revised recommendations that could supersede these specifications or the recommendations in the geotechnical report(s).

1.2 The Geotechnical Consultant of Record: Prior to commencement of work, the owner shall employ the Geotechnical Consultant of Record (Geotechnical Consultant). The Geotechnical Consultants shall be responsible for reviewing the approved geotechnical report(s) and accepting the adequacy of the preliminary geotechnical findings, conclusions, and recommendations prior to the commencement of the grading.

Prior to commencement of grading, the Geotechnical Consultant shall review the "work plan" prepared by the Earthwork Contractor (Contractor) and schedule sufficient personnel to perform the appropriate level of observation, mapping, and compaction testing.

During the grading and earthwork operations, the Geotechnical Consultant shall observe, map, and document the subsurface exposures to verify the geotechnical design assumptions. If the observed conditions are found to be significantly different than the interpreted assumptions during the design phase, the Geotechnical Consultant shall inform the owner, recommend appropriate changes in design to accommodate the observed conditions, and notify the review agency where required. Subsurface areas to be geotechnically observed, mapped, elevations recorded, and/or tested include natural ground after it has been cleared for receiving fill but before fill is placed, bottoms of all "remedial removal" areas, all key bottoms, and benches made on sloping ground to receive fill.

The Geotechnical Consultant shall observe the moisture-conditioning and processing of the subgrade and fill materials and perform relative compaction testing of fill to determine the attained level of compaction. The Geotechnical Consultant shall provide the test results to the owner and the Contractor on a routine and frequent basis.

1.3 The Earthwork Contractor: The Earthwork Contractor (Contractor) shall be qualified, experienced, and knowledgeable in earthwork logistics, preparation and processing of ground to receive fill, moisture-conditioning and processing of fill, and compacting fill. The Contractor shall review and accept the plans, geotechnical report(s), and these Specifications prior to commencement of grading. The

Contractor shall be solely responsible for performing the grading in accordance with the plans and specifications.

The Contractor shall prepare and submit to the owner and the Geotechnical Consultant a work plan that indicates the sequence of earthwork grading, the number of "spreads" of work and the estimated quantities of daily earthwork contemplated for the site prior to commencement of grading. The Contractor shall inform the owner and the Geotechnical Consultant of changes in work schedules and updates to the work plan at least 24 hours in advance of such changes so that appropriate observations and tests can be planned and accomplished. The Contractor shall not assume that the Geotechnical Consultant is aware of all grading operations.

The Contractor shall have the sole responsibility to provide adequate equipment and methods to accomplish the earthwork in accordance with the applicable grading codes and agency ordinances, these Specifications, and the recommendations in the approved geotechnical report(s) and grading plan(s). If, in the opinion of the Geotechnical Consultant, unsatisfactory conditions, such as unsuitable soil, improper moisture condition, inadequate compaction, insufficient buttress key size, adverse weather, etc., are resulting in a quality of work less than required in these specifications, the Geotechnical Consultant shall reject the work and may recommend to the owner that construction be stopped until the conditions are rectified.

## 2.0 Preparation of Areas to be Filled

2.1 Clearing and Grubbing: Vegetation, such as brush, grass, roots, and other deleterious material shall be sufficiently removed and properly disposed of in a method acceptable to the owner, governing agencies, and the Geotechnical Consultant.

The Geotechnical Consultant shall evaluate the extent of these removals depending on specific site conditions. Earth fill material shall not contain more than 1 percent of organic materials (by volume). No fill lift shall contain more than 5 percent of organic matter. Nesting of the organic materials shall not be allowed.

If potentially hazardous materials are encountered, the Contractor shall stop work in the affected area, and a hazardous material specialist shall be informed immediately for proper evaluation and handling of these materials prior to continuing to work in that area.

As presently defined by the State of California, most refined petroleum products (gasoline, diesel fuel, motor oil, grease, coolant, etc.) have chemical constituents that are considered to be hazardous waste. As such, the indiscriminate dumping or spillage of these fluids onto the ground may constitute a misdemeanor, punishable by fines and/or imprisonment, and shall not be allowed.

2.2 Processing: Existing ground that has been declared satisfactory for support of fill by the Geotechnical Consultant shall be scarified to a minimum depth of 6 inches. Existing ground that is not satisfactory shall be overexcavated as specified in the following section. Scarification shall continue until soils are broken down and free of large clay lumps or clods and the working surface is reasonably uniform, flat, and free of uneven features that would inhibit uniform compaction.

2.3 Overexcavation: In addition to removals and overexcavations recommended in the approved geotechnical report(s) and the grading plan, soft, loose, dry, saturated, spongy, organic-rich, highly fractured or otherwise unsuitable ground shall be overexcavated to competent ground as evaluated by the Geotechnical Consultant during grading.

2.4 Benching: Where fills are to be placed on ground with slopes steeper than 5:1 (horizontal to vertical units), the ground shall be stepped or benched. Please see the Standard Details for a graphic illustration. The lowest bench or key shall be a minimum of 15 feet wide and at least 2 feet deep, into competent material as evaluated by the Geotechnical Consultant. Other benches shall be excavated a minimum height of 4 feet into competent material or as otherwise recommended by the Geotechnical Consultant. Fill placed on ground sloping flatter than 5:1 shall also be benched or otherwise overexcavated to provide a flat subgrade for the fill.

2.5 Evaluation/Acceptance of Fill Areas: All areas to receive fill, including removal and processed areas, key bottoms, and benches, shall be observed, mapped, elevations recorded, and/or tested prior to being accepted by the Geotechnical Consultant as suitable to receive fill. The Contractor shall obtain a written acceptance from the Geotechnical Consultant prior to fill placement. A licensed surveyor shall provide the survey control for determining elevations of processed areas, keys, and benches.

## 3.0 Fill Material

3.1 General: Material to be used as fill shall be essentially free of organic matter and other deleterious substances evaluated and accepted by the Geotechnical Consultant prior to placement. Soils of poor quality, such as those with unacceptable gradation, high expansion potential, or low strength shall be placed in areas acceptable to the Geotechnical Consultant or mixed with other soils to achieve satisfactory fill material.

3.2 Oversize: Oversize material defined as rock, or other irreducible material with a maximum dimension greater than 8 inches, shall not be buried or placed in fill unless location, materials, and placement methods are specifically accepted by the Geotechnical Consultant. Placement operations shall be such that nesting of oversized material does not occur and such that oversize material is completely surrounded by compacted or densified fill. Oversize material shall not be placed within 10 vertical feet of finish grade or within 2 feet of future utilities or underground construction.

3.3 Import: If importing of fill material is required for grading, proposed import material shall meet the requirements of Section 3.1. The potential import source shall be given to the Geotechnical Consultant at least 48 hours (2 working days) before importing begins so that its suitability can be determined and appropriate tests performed.

## 4.0 Fill Placement and Compaction

4.1 Fill Layers: Approved fill material shall be placed in areas prepared to receive fill (per Section 3.0) in near-horizontal layers not exceeding 8 inches in loose thickness. The Geotechnical Consultant may accept thicker layers if testing indicates the grading procedures can adequately compact the thicker layers. Each layer shall be spread evenly and mixed thoroughly to attain relative uniformity of material and moisture throughout.

4.2 Fill Moisture Conditioning: Fill soils shall be watered, dried back, blended, and/or mixed, as necessary to attain a relatively uniform moisture content at or slightly over optimum. Maximum density and optimum soil moisture content tests shall be performed in accordance with the American Society of Testing and Materials (ASTM Test Method D1557-91).

4.3 Compaction of Fill: After each layer has been moisture-conditioned, mixed, and evenly spread, it shall be uniformly compacted to not less than 90 percent of maximum dry density (ASTM Test Method D1557-91). Compaction equipment shall be adequately sized and be either specifically designed for soil compaction or of proven reliability to efficiently achieve the specified level of compaction with uniformity.

4.4 Compaction of Fill Slopes: In addition to normal compaction procedures specified above, compaction of slopes shall be accomplished by backrolling of slopes with sheepsfoot rollers at increments of 3 to 4 feet in fill elevation, or by other methods producing satisfactory results acceptable to the Geotechnical Consultant. Upon completion of grading, relative compaction of the fill, out to the slope face, shall be at least 90 percent of maximum density per ASTM Test Method D1557-91.

4.5 Compaction Testing: Field tests for moisture content and relative compaction of the fill soils shall be performed by the Geotechnical Consultant. Location and frequency of tests shall be at the Consultant's discretion based on field conditions encountered. Compaction test locations will not necessarily be selected on a random basis. Test locations shall be selected to verify adequacy of compaction levels in areas that are judged to be prone to inadequate compaction (such as close to slope faces and at the fill/bedrock benches).

4.6 Frequency of Compaction Testing: Tests shall be taken at intervals not exceeding 2 feet in vertical rise and/or 1,000 cubic yards of compacted fill soils embankment. In addition, as a guideline, at least one test shall be taken on slope faces for each 5,000 square feet of slope face and/or each 10 feet of vertical height of slope. The Contractor shall assure that fill construction is such that the testing schedule can be accomplished by the Geotechnical Consultant. The Contractor shall stop or slow down the earthwork construction if these minimum standards are not met.

4.7 Compaction Test Locations: The Geotechnical Consultant shall document the approximate elevation and horizontal coordinates of each test location. The Contractor shall coordinate with the project surveyor to assure that sufficient grade stakes are established so that the Geotechnical Consultant can determine the test locations with sufficient accuracy. At a minimum, two grade stakes within a horizontal distance of 100 feet and vertically less than 5 feet apart from potential test locations shall be provided.

## 5.0 Subdrain Installation

Subdrain systems shall be installed in accordance with the approved geotechnical report(s), the grading plan, and the Standard Details. The Geotechnical Consultant may recommend additional subdrains and/or changes in subdrain extent, location, grade, or material depending on conditions encountered during grading. All subdrains shall be surveyed by a land surveyor/civil engineer for line and grade after installation and prior to burial. Sufficient time should be allowed by the Contractor for these surveys.

## 6.0 Excavation

Excavations, as well as over-excavation for remedial purposes, shall be evaluated by the Geotechnical Consultant during grading. Remedial removal depths shown on geotechnical plans are estimates only. The actual extent of removal shall be determined by the Geotechnical Consultant based on the field evaluation of exposed conditions during grading. Where fill-over-cut slopes are to be graded, the cut portion of the slope shall be made, evaluated, and accepted by the Geotechnical Consultant prior to placement of materials for construction of the fill portion of the slope, unless otherwise recommended by the Geotechnical Consultant.

## 7.0 Trench Backfills

7.1 Safety: The Contractor shall follow all OHSA and Cal/OSHA requirements for safety of trench excavations.

7.2 Bedding and Backfill: All bedding and backfill of utility trenches shall be done in accordance with the applicable provisions of Standard Specifications of Public Works Construction. Bedding material shall have a Sand Equivalent greater than 30 (SE>30). The bedding shall be placed to 1 foot over the top of the conduit and densified by jetting. Backfill shall be placed and densified to a minimum of 90 percent of maximum from 1 foot above the top of the conduit to the surface.

The Geotechnical Consultant shall test the trench backfill for relative compaction. At least one test should be made for every 300 feet of trench and 2 feet of fill.

7.3 Lift Thickness: Lift thickness of trench backfill shall not exceed those allowed in the Standard Specifications of Public Works Construction unless the Contractor can demonstrate to the Geotechnical Consultant that the fill lift can be compacted to the minimum relative compaction by his alternative equipment and method.

7.4 Observation and Testing: The jetting of the bedding around the conduits shall be observed by the Geotechnical Consultant.

# APPENDIX E

# CGS NOTE 48 CHECKLIST
# WITH REFERENCES TO THIS REPORT

# California Geological Survey - Note 48

Checklist for the Review of Engineering Geology and Seismology Reports for California Public Schools, Hospitals, and Essential Services Buildings
October 2013

Note 48 is used by the California Geological Survey (CGS) to review the geology, seismology, and geologic hazards evaluated in reports that are prepared under California Code of Regulations (CCR), Title 24, California Building Code. CCR Title 24 applies to California Public Schools, Hospitals, Skilled Nursing Facilities, and Essential Services Buildings. The Building Official for public schools is the Division of the State Architect (DSA). Hospitals and Skilled Nursing Facilities in California are under the jurisdiction of the Office of Statewide Health Planning & Development (OSHPD). The California Geological Survey serves under contract with these two state agencies.

Project Name:
OSHPD or DSA File #: N/A
Date Reviewed:
Location:
Reviewed By:
California Certified Engineering Geologist #:

| **Checklist Item or Topic Within Consulting Report**<br>NA = not applicable NR = not addressed by consultant and therefore not reviewed at this time | **Section of this Report Addressed in** | |
|---|---|---|
| **Project Location** | | |
| 1. Site Location Map, Street Address, County Name: Correctly plot site on a 7½-minute USGS quadrangle base-map. | Figure 1, Cover letter | |
| 2. Plot Plan with Exploration Data and Building Footprint: One boring or exploration shaft per 5000 $ft^2$, with minimum of two for any one building. Exploratory trench locations. | Figure 2; Sec 1.2 | |
| 3. Site Coordinates (Latitude & Longitude): | Sec 2.5.2 | |
| **Engineering Geology/Site Characterization** | | |
| 4. Regional Geology and Regional Fault Maps: Concise page-sized illustrations with site plotted. | Figure 3; Figure 5 | |
| 5. Geologic Map of Site: Detailed (large-scale) geologic map with proper symbols and geologic legend. | Figure 3 | |
| 6. Subsurface Geology: Engineering geologic description summarized from boreholes or trench logs. Summarize ground water conditions. | Sec. 2.3; 2.4 | |
| 7. Geologic Cross Sections: Two or more detailed geologic sections with pertinent foundations and site grading. | Figure 4a; Figure 4b | |
| 8. Active Faulting & Coseismic Deformation Across Site: Show proposed structures in relation to Alquist-Priolo Earthquake Fault Zones and/or any potential fault rupture hazard identified from the Safety Element of the local agency (city or county); show location of fault investigation trenches; 50-foot setbacks perpendicular from fault plane and proposed building footprints. | Sec. 2.5.1 | |
| 9. Geologic Hazard Zones (Liquefaction & Landslides): (*If applicable*) Show proposed structures in relation to CGS official map showing zones of required investigation for liquefaction and landslide, and/or any pertinent geologic hazard map from the Safety Element of the local agency (city or county). | Sec. 2.6 | |
| 10. Geotechnical Testing of Representative Samples: Broad suite of appropriate geotechnical tests. | Appendix A, Appendix B | |
| 11. Consideration of Geology in Geotechnical Engineering Recommendations: Discuss engineering geologic aspects of excavation/grading/fill activities, foundation and support of structures. Include geologic and geotechnical inspections and problems anticipated during grading. Special design and construction provisions for bearing capacity failure and/or footings or foundations founded on weak or expansive soils. Consideration of seismic compression of fills; cut/fill differential settlement. | Sec. 3.2; 3.3 | |
| **Seismology & Calculation of Earthquake Ground Motion** | | |
| 12. Evaluation of Historical Seismicity: Prepare a short description of how historical earthquakes have affected the site. | Sec. 2.5.3; Figure 5 | |
| 13. Classify the Geologic Subgrade (Site Class): ASCE 7, Chapter 20. | Sec. 2.5.2 | |
| 14. General Procedure Ground Motion Analysis: Follows CBC §1613A.5. Report parameters $S_S$, $S_1$, $S_{DS}$ and $S_{D1}$. Recommended method for establishing map values found at: http://earthquake.usgs.gov/designmaps/us/application.php. | Sec. 2.5.2, 3.5 | |
| 15. Seismic Design Category: Report if $S_1 > 0.75$ | Sec. 2.5.2 | |
| 16. Site-Specific Ground Motion Analysis: (*If applicable*) Required for sites where Seismic Design Category is E or F (CBC §1616A.1.3), and where required by ASCE 7 §11.47. See requirements in CBC §1803A.6.2. CGS suggests a table showing (a) 2%-in-50-years probabilistic spectrum, (b) risk coefficients if using ASCE 7 §21.2.1, Method 1), (c) probabilistic $MCE_R$, (d) 84% deterministic spectrum, (e) deterministic lower limit, (f) site-specific $MCE_R$ (ASCE 7 §21.2.3), (g) 80% of map-based General Response Spectrum, (h) design response spectrum (ASCE 7 §21.3). Also | Sec. 2.5.2 | |

| Checklist Item or Topic Within Consulting Report<br>NA = not applicable NR = not addressed by consultant and therefore not reviewed at this time | Section of this Report Addressed in | |
|---|---|---|
| 17. Deaggregated Seismic Source Parameters: (*If applicable*) If needed for liquefaction, slope stability analysis or for earthquake record selection, provide controlling magnitude (M) and fault distance (R). Might be either deterministic or deaggregate for modal M and R. | Sec. 2.5.2 | |
| 18. Time Histories of Earthquake Ground Motion: (*If applicable*) Identify target spectra (MCE or design); justify selected earthquake records; scale to target to meet ASCE 7 §16.1.3 or §17.3 and CBC §1616A.1.32; and show initial and scaled time histories and response spectra. | NA | |

## Liquefaction/Seismic Settlement Analysis

| | | |
|---|---|---|
| 19. Geologic Setting for Occurrence of Liquefaction: Perform screening analysis to identify where the following conditions apply:<br>depth of highest historical ground water surface <50 ft.<br>low-density, non-plastic alluvium, typically *SPT* $(N_1)_{60}$<30. | Sec. 2.4; 2.6.1 | |
| 20. Seismic Settlement Calculations: (*If applicable*) Evaluate both saturated and unsaturated layers of the entire soil column; based on several detailed geologic cross sections. Provide calculations (no estimates) including all input parameters. Evaluate liquefaction using highest historical ground water elevation. Evaluate using $PGA_M$ (CBC §1803A.5.12), and calculate liquefaction settlement for each layer where FS<1.3 (CGS SP117A). | Sec. 2.6.2 | |
| 21. Other Liquefaction Effects (*If applicable*) Bearing capacity failure and/or lateral spread | Sec. 2.6.1 | |
| 22. Mitigation Options for Liquefaction: (*If applicable*) Discuss effectiveness of options to mitigate liquefaction effects. Acceptance criteria for ground-improvement schemes. | Sec. 2.6.1 | |

## Slope Stability Analysis

| | | |
|---|---|---|
| 23. Geologic Setting for Occurrence of Landslides: Characterize the potential for landsliding both on and off-site affecting proposed project. | Sec. 2.7 | |
| 24. Determination of Static And Dynamic Strength Parameters: (*If applicable*) Conduct appropriate laboratory tests to determine material strength for both static and dynamic conditions. | Sec. 2.7 | |
| 25. Determination of Pseudo-Static Coefficient ($K_{eq}$): (*If applicable*) Recommended procedure available from http://www.conservation.ca.gov/cgs/shzp/webdocs/Documents/sp117.pdf. Recommend using design-level ground motion based on geometric mean and without risk coefficient (ie, $(PGA_M)/1.5$), or discuss with CGS. | Sec. 2.7 | |
| 26. Identify Critical Slip Surfaces for Static and Dynamic Analyses: (*If applicable*) Failure surfaces should be modeled to include existing slip surfaces, discontinuities, geologic structure and stratigraphy; include appropriate ground water conditions. | Sec. 2.7 | |
| 27. Dynamic Site Conditions: (*If applicable*) Site response analysis and topographic effects should be considered, if appropriate. | Sec. 2.7 | |
| 28. Mitigation Options for Landsliding/Other Slope Failure: (*If applicable*) Discuss effectiveness of options to mitigate landsliding/slope failure effects. Acceptance criteria for ground-improvement schemes. | Sec. 2.7 | |

## Other Geologic Hazards or Adverse Site Conditions

*These exceptional geologic hazards do not occur statewide; however, they may be pertinent to a particular site. Where these conditions exist relevant information should be communicated to the design team.*

| | | |
|---|---|---|
| 29. Expansive Soils | Sec. 2.3.2, 3.4 | |
| 30. Corrosive/Reactive Geochemistry of Geologic Subgrade: soluble sulfates and corrosive soils. | Sec. 2.3.3, 2.3.4 | |
| 31. Conditional Geologic Assessment: Including but not limited to - **A. Hazardous materials** methane gas, hydrogen-sulfide gas, tar seeps; **B. Volcanic eruption**; **C. Flooding** Riverine (FEMA FIRMs or local zoning for 100-year flood); see CBC §1612A. Also consider alluvial fan and dam inundation. Is the site elevated or protected from hazard; **D. Tsunami and seiche inundation**; **E. Radon-222 gas**; **F. Naturally occurring asbestos** in geologic formations associated with serpentine; refer to CGS SP 124; **G. Hydrocollapse** of alluvial fan soils due to anthropic use of water; **H. Regional subsidence**; **I. Clays and cyclic softening**. | Sec. 2.3.1 (hydrocollapse),<br>2.6.3 (seiches/tsunamis),<br>2.8 (flooding/dam inundation),<br>2.9 (others) | |

## Report Documentation

| | | |
|---|---|---|
| 32. Geology, Seismology, and Geotechnical References | References | |
| 33. Certified Engineering Geologist: (CBC §1803A.1) | Cover Letter | |
| 34. Registered Geotechnical Engineer: (CBC §1803A.1) | Cover Letter | |

# APPENDIX F1

# PHASE I ESA

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# PHASE I ENVIRONMENTAL SITE ASSESSMENT

Centennial High School Aquatic Center
1820 Rimpau Avenue
Corona, California

September 2, 2022

Prepared for:

Corona-Norco Unified School District
2820 Clark Avenue
Norco, California 92860

Prepared by:

EEC Environmental
One City Boulevard West, Suite 1800
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EEC S-3757.01T

**DRAFT**

_____

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**DRAFT**

_____

Jeff Hensel, PG
Senior Project Geologist

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# ES EXECUTIVE SUMMARY

The Corona-Norco Unified School District (CNUSD) retained EEC Environmental (EEC) to conduct a Phase I Environmental Site Assessment (ESA) for Centennial High School located at 1820 Rimpau Avenue in Corona, Riverside County, California (Subject Property). The objective of the Phase I ESA is to assess the environmental condition of the Subject Property and identify *recognized environmental conditions* (RECs), as defined by the American Society for Testing and Materials (ASTM), in connection with the Subject Property. This Phase I ESA is being requested as part of a project to improve the existing Aquatic Center.

The Subject Property is located at 1820 Rimpau Avenue in Corona, Riverside County, California (Figure 1A and 1B, *Site Location Map*; Figure 2, *Site Vicinity Map*) in a mixed commercial and residential land use setting. According to the Riverside County Assessor, the Subject Property is located on an approximately 39.51-acre parcel of land identified as Assessor's Parcel Number (APN) 107-140-032, and title is vested in Corona-Norco Unified School District. The Subject Property is developed with Centennial High School, which was constructed in 1989. Centennial High School consists of five main classroom buildings (Buildings 100, 200, 300, 400, and 800), six portable classroom buildings, a multi-purpose building including the cafeteria (Building 900), a theater building (Building 600), main gym (Building 500), weight room, a maintenance room, a storage building, Aquatic Center, a football field, three baseball diamonds, tennis courts, and an asphalt-paved parking lot.

EEC evaluated historical land use at the Subject Property through the examination of selected historical aerial photographs, historical topographic maps, city directories, and user provided information. The Subject Property was undeveloped from the early 1900s until the early 1930s when it consisted of groves. The agricultural use of the Subject Property continued until 1985, when the Subject Property was cleared of vegetation. In 1989 the majority of the existing high school was developed on the Subject Property. Additions and renovations of the Subject Property took place in 1993, with the development of the existing Aquatic Center; and between 2009 and 2012, when the southern portion of the Subject Property were redeveloped with the existing classroom and kitchen buildings. Since at least 2012, the high school has resembled its existing configuration.

## ES.1 Findings

Based on site observations and information gathered, the Phase I ESA revealed the following in connection with the Subject Property:

- Groundwater is anticipated at 115 feet below ground surface (bgs) and the flow direction is expected to be to the north-northeast.
- The Subject Property was used for agricultural purposes from the early 1930s until the mid-1980s. Two soil investigations to evaluate the presence of organochloride pesticides (OCPs), heavy metals, and arsenic were conducted throughout the Subject Property in 2000 and 2009. Based on a review of the analytical results, dichloro-diphenyl-trichloroethane (4,4-DDT), dichloro-diphenyl-dichloroethylene (4,4-DDE) and dichloro-diphenyl-dichloroethane (4,4-DDD) were detected in soil at concentrations below the current residential San Francisco Regional Water Quality Control Board's Environmental Screening Levels (ESLs) and below the United States Environmental Protection Agency (USEPA) Region 9 Preliminary Remediation Goals (PRGs). Metals and arsenic were identified to be below screening levels or at the background levels for the area. Based on the analytical results, the Department of Toxic Substances Control granted No Further Action (NFA) letters to the Subject Property for each of the soil investigations on April 23, 2001, and on

June 2, 2009. Based on the former analytical results, it is unlikely for OCPS and metals in exceedance of regulatory standards to exist on the Subject Property. Therefore, the former agricultural use on the Subject Property does not represent an environmental concern.

- Evidence of an in-ground hydraulic lift and clarifier was observed on the Subject Property in the vicinity of the maintenance building/yard. Soil in their vicinity was not investigated for petroleum hydrocarbons or volatile organic compounds (VOCs) during the former soil investigations on the Subject Property. While the equipment is not currently utilized, they can degrade overtime, increasing the risk of contamination. However, they are not expected to represent an environmental concern for the proposed improvements at the Aquatic Center based on the distance of these features from the Aquatic Center (approximately 530 feet).
- The following chemicals are stored within the Aquatic Center building: sodium hypochlorite, muriatic acid, chlorine, and chlorine oxidizers. Additionally, the Aquatic Center is equipped with a pool filtration system and a natural gas pool heater. Spills and/or evidence of release were not observed in the vicinity of the chemicals and pool equipment. The Aquatic Center is not anticipated to represent an environmental concern.
- Due to the date of constructions of the Subject Property ranging from the late 1980s through the 2000s, there is a low potential for lead-based paint (LBP) and asbestos-containing material (ACM) to exist on the Subject Property. However, only complete, LBP and ACM sampling surveys can definitively determine the presence of LBP and ACM.

## ES.2 Conclusions and Recommendations

EEC has performed this Phase I ESA in conformance with the scope and limitations of ASTM Practice E1527-13 of Centennial High School located at 1820 Rimpau Avenue in Corona, Riverside County, California, the Subject Property. Any exceptions to, or deletions from, this practice are described in Section 1.4, *Limitations*, of this report. RECs were not identified in connection with the proposed project to improve the existing Aquatic Center.

Based on the results of this assessment, no additional investigation is recommended at this time.

# 1.0 INTRODUCTION

## 1.1 Objective

The Corona-Norco Unified School District (CNUSD) retained EEC Environmental (EEC) to conduct a Phase I Environmental Site Assessment (ESA) for Centennial High School located at 1820 Rimpau Avenue in Corona, Riverside County, California (Subject Property). The objective of the Phase I ESA is to assess the environmental condition of the Subject Property and identify *recognized environmental conditions* (RECs), as defined by the American Society for Testing and Materials (ASTM), in connection with the Subject Property. This Phase I ESA is being requested as part of a project to improve the existing Aquatic Center.

## 1.2 Definitions

The term *recognized environmental condition* (REC) is defined by the ASTM as "the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment" (ASTM E1527-13 §3.2.78).

The term *controlled recognized environmental condition* (CREC) is defined by the ASTM as "a *recognized environmental condition* resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls)" (ASTM E1527-13 §3.2.18).

The term *historical recognized environmental condition* (HREC) is defined by ASTM as "a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls). Before calling the past release a historical recognized environmental condition, the environmental professional must determine whether the past release is a recognized environmental condition at the time the Phase I Environmental Site Assessment is conducted (for example, if there has been a change in the regulatory criteria)" (ASTM E1527-13 §3.2.42).

The term *vapor encroachment condition* (VEC) is defined by ASTM as the "presence or likely presence of COC [chemical of concern] vapors in the vadose zone of the TP [target property] caused by the release of vapors from contaminated soil and/or groundwater either on or near the TP as identified by Tier 1 or Tier 2 procedures" (ASTM E2600-15 §1.1.1).

The term *de minimis condition* is defined by ASTM as "a condition that generally does not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies" (ASTM E1527-13 §3.2.22).

## 1.3 Scope of Work

The assessment was conducted in accordance with the U.S. Environmental Protection Agency (USEPA) Standards and Practices for All Appropriate Inquiries (AAI; 40 CFR 312); ASTM Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process (ASTM Designation E1527-13); and EEC's Standard Limitations (Appendix A). It should be noted that ASTM approved a new standard, ASTM E1527-21, in November 2021; however, this standard has not yet been adopted by the USEPA into USEPA AAI, 40 CFR 312. Until the ASTM E1527-21 Standard is officially adopted by the USEPA, ASTM E1527-13 remains the applicable standard. According to ASTM E1527-13, "the purpose of E1527 is to set forth a practice that constitutes all appropriate inquiries into the previous ownership and uses of the property consistent with good commercial and customary practice as defined at 42 U.S.C. 9601 (35)(B)." The Phase I ESA includes all the appropriate inquiries to support the innocent landowner defense pursuant to the Comprehensive Environmental Response, Compensation, and Liability Act.

The assessment included the following tasks:

- Review of the physical setting of the Subject Property, including soil, geology, topography, hydrogeology, and flood zone; identify the water supplier to the Subject Property; identify nearest documented groundwater wells; and determine if the Site is located within a methane zone or methane buffer zone.
- Regulatory environmental file review of federal, state, regional, county, and city agency files related to air emissions, environmental investigations and remediation, hazardous materials and hazardous waste, pipelines, at the Subject Property. Agencies contacted will include the USEPA, DTSC, Regional Water Quality Control Board (RWQCB), State of California Geologic Energy Management Division (CalGEM), South Coast Air Quality Management District (SCAQMD), Riverside County, City of Corona, and the appropriate Certified Unified Program Agency offices. Additionally, the State of California Fire Marshal, Pipeline Safety Division and Sempra Energy (So Cal Gas) will also be contacted.
- Review of regulatory environmental database summary of federal, state, and tribal regulatory agency records associated with the Subject Property and off-site properties located within the ASTM-specified search distances from the Subject Property.
- Review of reasonably ascertainable historical sources including aerial photographs, historical topographic maps, city directories, fire insurance maps (if available), property tax files, recorded land title records, and building department records to identify previous land use that may represent a REC.
- Review of available Subject Property environmental information, such as environmental reports and permits, to identify evidence of RECs.
- A review of recorded land title records, regulatory agency records, and State Institutional Controls/Engineering Controls databases for environmental liens or activity and use limitations (AULs).
- Following review of the database and other record searches, EEC will visit the Subject Property to investigate the study area and any adjacent properties that may potentially impact the Subject Property. Photographs of the Subject Property and vicinity will be taken, and field observations will be noted in a site checklist and included with the Phase I ESA report. The number and location of transformers within the project area will be documented. Facilities in the surrounding area that may handle, store or dispose of hazardous materials that could impact the Subject Property will be noted. Should an adjacent property appear to impact the site, a records review and file search will be performed on the property following approval by the Corona-Norco Unified School District.

- The proximity of the Subject Property to the following utilities and other structures were evaluated during the site reconnaissance as part of completion the environmental school site selection criteria checklist:
    - Powerlines/Electromagnetic Fields
    - Railroads
    - Traffic Noise
    - Faults
    - Floor or Inundation Area
    - Pipelines and Above Ground Tanks
    - Liquefaction and Landslides
    - Traffic and Pedestrian Safety
    - Compatible Zoning
    - Light, Wind, Air Pollution
    - Easements
    - Border Zone Property
    - Cellular Phone Towers
    - Air Pollution
    - Methane Zone
    - Oil Wells
    - Airports
- Review, in accordance with ASTM E2600-15, potential vapor encroachment conditions (VECs) at the Subject Property.
- In addition to Phase I ESA requirements set forth in the Corona-Norco Unified School District RFP, EEC attempted to visually identify suspected asbestos-containing material (ACM), lead-based paint, and mold. Radon, flood zones, and wetlands are addressed in the Environmental Data Resources (EDR) regulatory database report. These items are not covered by the ASTM 1527-13 standard.

## 1.4 Limitations

The conclusions presented in this report are professional opinions based solely upon visual observations of the Subject Property and Subject Property vicinity and EEC's interpretation of the available historical information and documents reviewed, as described in this report. The conclusions are intended exclusively for the purpose outlined in this report, for the specified Subject Property location, and for the project indicated. The opinions and recommendations presented in this report apply to past and present conditions at the Subject Property and are not applicable to future conditions or events.

In accordance with Section 312.24, *Reviews of Historical Sources of Information*, of the All Appropriate Inquiries rule, all obvious uses of the Subject Property shall be identified from the present to "as far back as it can be shown that the property contained structures or from the time the property was first used for residential, agricultural, commercial, industrial, or governmental purposes." This task requires review of only as many historical sources as are necessary and are both reasonably ascertainable and likely to be useful. Historical sources could include aerial photographs, historical topographic maps, city directories, fire insurance maps, property tax files, recorded land title records, and building department and zoning/land use records. This ESA does not include physical testing for such non-scope considerations as an evaluation for the potential presence of lead in drinking water, radon gas, asbestos, or lead-based paint at the Subject Property. EEC's Standard Limitations are found in Appendix A.

### *1.4.1 Data Gaps*

The term *data gap* is defined by ASTM as "a lack of or inability to obtain information required by this practice despite good faith efforts by the environmental professional (EP) to gather such information. Data gaps may result from incompleteness in any of the activities required by this practice, including, but not limited to site reconnaissance (for example, an inability to conduct the site visit), and interviews (for example, an inability to interview key site manager, regulatory officials, etc.)." The ASTM standard requires that the report identify significant data gaps that affect the ability of the EP to ascertain RECs and to identify the sources of information that were consulted to address the data gaps.

*Unavailable Documentation*

At the time of this Phase I ESA report, the following information was not available for review:

- EEC contacted the Riverside County Department of Environmental Health (DEH) to review files (if any) for the Subject Property. EEC has not received a response as of the date of this report.
- EEC contacted Gas Company and the Office of the State Fire Marshal to obtain information related to pipelines and utilities in the Subject Property area. EEC has not received a response as of the date of this report.

It is EEC's opinion that the unavailable documentation did not prevent identification of RECs, because sufficient information was obtained from other sources. Should any of the information received from the agencies change findings of this report, EEC will issue an addendum.

## 2.0 USER PROVIDED INFORMATION

The term *user* is defined by ASTM as "the party seeking to use Practice E1527 to complete an environmental site assessment of the property. A user may include, without limitation, a potential purchaser of the property, a potential tenant of property, an owner of property, a lender, or a property manager" (ASTM E1527-13 §3.2.98). CNUSD is the user of this report. According to the ASTM standard, certain tasks should be performed by or on behalf of the user. The results of these tasks can be provided to the environmental professional to assist in identifying RECs in connection with the Subject Property.

The tasks include the following: review title and judicial records for environmental liens and activity and use limitations (AULs), communicate specialized knowledge related to RECs, communicate actual knowledge related to environmental liens or AULs prior to the site reconnaissance, indicate if the purchase price of the Subject Property is lower than the fair market value due to contamination, communicate commonly known or reasonably ascertainable information within the local community about the Subject Property related to RECs in connection with the Subject Property prior to site reconnaissance, consider the degree of obviousness of the presence or likely presence of releases at the Subject Property and the ability to detect the releases by appropriate investigation, and communicate the reason for the Phase I ESA. A User Questionnaire was reviewed with CNUSD representative, Ms. Jacquelyn Roberts, Construction Director I – Facilities (Appendix B, *User Provided Information*). According to information provided by Ms. Roberts, no environmental concerns were identified.

# 3.0 SITE DESCRIPTION

The Subject Property is located at 1820 Rimpau Avenue in Corona, Riverside County, California (Figure 1A and 1B, *Site Location Map*; Figure 2, *Site Vicinity Map*) in a mixed commercial and residential land use setting. The approximately 40-acre Subject Property is bounded by Rimpau Avenue to the east followed by a commercial area and the Hensley at Corona Pointe Apartments. Single family residences bound the Subject Property to the south. The Subject Property is bound to the west by Fullerton Avenue followed by the Vintage Terrace Senior Apartments and various medical office buildings. The Subject Property is bound to the north by multi-family residences and the Villa Corona Mobile Home Community. According to the Riverside County Assessor, the Subject Property is located on an approximately 39.51-acre parcel of land identified as Assessor's Parcel Number (APN) 107-140-032, and title is vested in Corona-Norco Unified School District. The Subject Property is developed with Centennial High School, which was constructed in 1989. Centennial High School consists of five main classroom buildings (Buildings 100, 200, 300, 400, and 800), six portable classroom buildings, a multi-purpose building including the cafeteria (Building 900), a theater building (Building 600), main gym (Building 500), weight room, a maintenance room, a storage building, Aquatic Center, a football field, three baseball diamonds, tennis courts, and an asphalt-paved parking lot.

## 3.1 Physical Setting

### *3.1.1 Topography and Physiography*

The most recent topographic map coverage of the Subject Property is provided by the U.S. Geological Survey (USGS) 7.5-minute, South Corona, California quadrangle map, dated 2018 (USGS, 2018) (Figure 1). According to the USGS topographic map and the Environmental Data Resources (EDR) Report, the Subject Property is located in Township 4 South (T4S), Range 6 West (R6W), Section 21 at an elevation of approximately 800 feet above mean sea level (msl). The regional topography near the Subject Property gently slopes to the northeast (EDR, 2022 and USGS, 2018).

The climate is characterized by warm summers and mild winters with a majority of the precipitation occurring during the winter months. The nearby surface water bodies include the Temescal Wash and Main Street Wash located approximately 1.25-miles to the northeast and 1.0-mile to the west-northwest, respectively. According to flood zone and National Wetland Inventory (NWI) data presented in the EDR® Radius Map™ Report and the CoreLogic Flood Map Report reviewed by EEC, the Subject Property is not located within wetland delineated areas or 100- or 500-year flood zones. Flood zone and NWI data were obtained by EDR from the Federal Emergency Management Agency and the U.S. Fish and Wildlife Service, respectively (EDR, 2022). EDR Reports are provided in Appendix I.

### *3.1.2 Geology and Hydrogeology*

The Subject Property is located in western Riverside County in the Peninsular Ranges province of southern California. The Subject Property is underlain by unconsolidated younger alluvial fan deposits (defined as "Qyf"). The Qyf deposits in the Corona area consist of stiff gravelly sand deposits derived largely from volcanic and sedimentary units of Santa Ana Mountains (CDMG, 2002). According to data collected for the State Water Resources Control Board (SWRCB) GeoTracker website, soil encountered at a closed leaking underground storage tank (LUST) site (case number T0606500247) located approximately 0.5-miles north of the Subject Property consists of dense gravelly silts and sands to 125 feet below ground surface (bgs) with granitic detritus encountered at 65 feet bgs to the total depth of borings completed at the LUST site. Groundwater was encountered at approximately 115 feet bgs with a regional flow direction

generally to the north-northeast (Wayne Perry, 2005).

Refer to Sections 10.3 and 10.5.4 for radon and seismic information for the Subject Property.

## 4.0 SITE RECONNAISSANCE

On August 3, 2022, Ms. Gabriela Jorquiera, field scientist with EEC conducted site reconnaissance of the Subject Property and surrounding area to examine current conditions. Site reconnaissance included observations of existing conditions at the Subject Property, including evidence of current and past use of hazardous materials, and a perimeter survey from public rights-of-way. Ms. Jorquiera was accompanied by Ms. Jacquelyn Roberts, Construction Director I – Facilities, with CNUSD during the site reconnaissance.

## 4.1 General Observations

During the site reconnaissance, seven classroom buildings including portable classrooms (Buildings 100, 200, 300, 400, 800, and 900), a main gym building (Building 500), a weight/wrestling building, a field storage building, a football field, three baseball diamonds, an Aquatic Center, and two asphalt-paved parking lots were observed. Observations for each area are outlined below:

- **Aquatic Center** and was constructed in 1993. The center consists of the swimming pool and associated building consisting of locker rooms and restrooms, concessions room, pool equipment room, and pool chemical rooms. The building totals 2,808 square-feet.
- **Administrative Office Building** totals 13,772 square-feet and was constructed in 1989. The building is two-stories, and a hydraulic elevator was observed within the building.
- **Building 100** total 30,840 square-feet and was constructed in 1989. The building consists of the media center/library and general classrooms; room numbers range from 100 to 121.
- **Building 200** totals 15,000 square-feet and was constructed in 1989. The building consists of general classrooms and the athletic ASB store; room numbers range from 200-212.
- **Building 300** totals 13,772 square-feet and was constructed in 1989. The building consists of general classrooms, the ceramics classroom, and the career/counselor office; room numbers range from 300-314.
- **Building 400** was constructed in 1989. The building is the “industrial technology” building, consisting of the woodshop, computer rooms, maintenance building/yard (formerly the auto shop classroom), and the portable general classrooms. An in-ground hydraulic lift and empty clarifier were observed in the maintenance yard. The industrial technology classrooms total 15,302 square-feet and were constructed in 1989; the room numbers range from 400-406.
- **Portable Classrooms** total 16,150-sqare-feet and were constructed in 2009. While not connected to Building 400, the portable classroom numbers range from 408-425.
- **Building 500** totals 27,324 square-feet and was constructed in 1989. The building consists of the main gym and locker rooms.
- **Building 600** totals 28,470 square-feet and was constructed in 1989 and consists of the theater rooms and band room.
- **Building 800** totals 42,850 square-feet and was constructed in 1989 and consists of two-story general classrooms primarily consisting of science rooms. A hydraulic elevator and small quantities of biological and chemical wastes were observed in the science storage room within this building.

- **Building 900** totals 54,587 square-feet and was constructed between 2009 and 2012. The two-story building consists of the kitchen/cafeteria, auxiliary gym, and general classrooms. A hydraulic elevator was observed in this building.
- **Field equipment** storage shed totals 2,300 square-feet and was constructed in 2009 and houses equipment and materials for the football field and baseball diamonds.
- **Weight/wrestling** room totals 8,690 square-feet and was constructed in 2006. The building consists of the two aforementioned training rooms and concession stand.
- One **football field**, three **baseball diamonds**, and six **tennis courts** are located on the western portion of the Subject Property.
- A **diesel fueled emergency generator** is located between the football field and tennis courts.
- **Asphalt-paved parking lots** are located on the northeastern and eastern portions of the Subject Property along Rimpau Avenue.

During the site inspection, EEC did not observe any odors, pools of liquid, pits, ponds, lagoons, stained soil, or distressed vegetation. Observations and details regarding specific site features are described in Sections 4.2 through 4.6 below.

## 4.2 Use of Petroleum Products

EEC reviewed environmental records and conducted an inspection of the property to identify the use of hazardous substances and petroleum products. Based on the site reconnaissance, EEC identified the following hazardous substances and/or petroleum products at the Subject Property. No leaks or staining were observed in the vicinity of these materials.

- An emergency diesel fueled generator, located on concrete, was observed between the football field and tennis courts. The diesel fuel is stored in a belly tank within the generator. Staining and/or evidence of a release was not observed in the vicinity of the generator. According to Ms. Roberts, she is not aware of any releases or issues associated with the emergency generator.

## 4.3 Storage Tanks and Containers

### *4.3.1 Underground Storage Tanks*

No visual evidence indicating the presence of underground storage tanks (USTs) was identified at the Subject Property. In addition, no records indicating the presence of former USTs were found during file reviews.

### *4.3.2 Aboveground Storage Tanks*

One approximately 5,000-gallon sodium hypochlorite AST was observed within the chemical storage room in the southern portion of the Aquatic Center building. The AST was located within secondary containment. Staining and/or evidence of a release was not observed in the vicinity of the AST, however, the concrete within the storage room was observed to be cracked. Additionally, a diesel tank of unknown capacity is located on the Subject Property associated with the emergency generator. The diesel AST is further discussed above in Section 4.2.

### *4.3.3 Drums and Containers*

The following containers were observed during the site reconnaissance:

**Table 4-1, Site Containers**

| Quantity | Gallons | Contents | Location | Container's Condition |
|---|---|---|---|---|
| 1 | 10-gallons | Spill kit | Pool equipment room | Good |
| 44 | 1-gallon | Chlorine | Open-air storage area in the Aquatic Center | Good |
| 4 | 1-gallon | Chlorine | Chemical storage room in the Aquatic Center | Good |
| 3 | 15-gallons | Muriatic acid | Chemical storage room in the Aquatic Center | Good |
| 3 | 15-gallons | Empty-formerly contained muriatic acid | Chemical storage room in the Aquatic Center | Good |
| 2 | 10-gallons | Oxy-Brite – non-chlorine shock oxidizer | Chemical storage room in the Aquatic Center | Good |
| 2 | 5-gallons | Fresh 'N Clear – chlorine free oxidizer | Chemical storage room in the Aquatic Center | Good |
| 2 | 5-gallons | Citrus Natural Floor Cleaner | Janitorial carts observed in the gym, 800 Building, | Good |
| 2 | 5-gallons | Paint Remover | Janitorial carts observed in the gym, 800 Building, | Good |
| 1 | 2-gallons | Multi-purpose cleaner | Janitorial carts observed in the gym, 800 Building, | Good |
| 6 | 5-gallons | Biological specimen waste consisting of shark and crab parts | Science storage room within Building 800 | Good |
| 4 | 5-gallons | Hydraulic oil | Elevator rooms, Football bleachers, Building 800, 100, and 900 | Good |
| 10 | 5-gallons | Paint | Field equipment storage building | Good |
| 1 | 5-gallons | Paint for synthetic turf | Field equipment storage building | Good |
| 12 | 1-gallons | Green lawn turf paint | Field equipment storage building | Good |
| 1 | 1-quart | Motor oil | Field equipment storage building | Good |
| 6 | 5-gallons | Empty | Field equipment storage building | Good |
| 1 | 1-gallon | Empty – oil can | Field equipment storage building | Good |
| 3 | 5-gallons | Oily rags | Woodshop classroom – Building 400 | Good |
| 28 | 1-quart | Wood paint/varnish | Woodshop classroom – Building 400 | Good |
| 10 | 5-gallons | Paint | Maintenance yard | Good |
| 20 | 1-gallon | Paint | Maintenance yard | Fair |

| Quantity | Gallons | Contents | Location | Container's Condition |
|---|---|---|---|---|
| 7 | 5-gallons | Biological specimen waste | Maintenance yard | Good |
| 1 | 2-gallons | Biological specimen waste | Maintenance yard | Good |
| 1 | 55-gallons | Empty | Maintenance yard | Good |
| 4 | 5-gallons | Floor care solution | Maintenance building | Good |
| 2 | 1-gallon | Floor care solution | Maintenance building | Good |
| 10 | 5-gallons | Paint | Maintenance building | Good |
| 1 | 2-gallons | Carpet/tile adhesive | Maintenance building | Good |
| 1 | 2-gallons | Floor care solution | Maintenance building | Good |
| 2 | 1-gallon | Engine oil | Maintenance building | Good |
| 1 | 5-gallons | Oil can | Maintenance building | Good |
| 8 | 5-gallons | Ceramic glaze | Ceramics room in Building 300 | Good |
| 15 | 5-gallons | Paint | Electrical equipment compound in parking lot | Good |
| 4 | 5-gallons | Paint | Storage room- former wood shop class within Building 600 | Good |

Additionally, various small quantities of chemicals consisting of sulfates, ammonium, metals, and chloride were observed in the science storage room, stored on shelves. Staining and/or evidence of a release were not observed in the vicinity of the observed containers.

### *4.3.4 Other Subsurface Equipment*

During the site reconnaissance, one clarifier and evidence of an in-ground hydraulic lift were observed in the maintenance building/yard. The clarifier was observed to be empty and both features are not currently in use. According to Ms. Roberts, the maintenance yard/building was formerly utilized as for the auto shop class. Auto shop is no longer an elective at the Subject Property. Based on a review of the regulatory databases, the auto shop operated through at least 2009. Staining and/or evidence of a release was not observed in the vicinity of the formerly used in-ground hydraulic lift and clarifier.

### *4.3.5 Swimming Pool Equipment*

A water filtration system and a natural gas-powered pool heater were observed within the Aquatic Center maintenance room. Rusting was observed on the concrete beneath the water filtration system; however, chemical staining and/or evidence of a release was not observed in the vicinity of the equipment.

### *4.3.6 Air Compressors*

Two air compressors were observed in Building 800. The air compressors were located on concrete. Staining and/or evidence of a release was not observed in the vicinity of the air compressors. According to Ms. Roberts, she is not aware of any issues with the air compressors.

## 4.4 Polychlorinated Biphenyls

PCBs are chemicals that are widely used in industry for their heat-transfer properties. PCBs were historically used in electrical transformers, hydraulic fluids, and electrical equipment, such as fluorescent-

light ballasts. PCBs are stable compounds that persist in the environment after a spill or improper disposal. PCBs are carcinogenic substances, and their use has been prohibited in most products since 1978.

Pad and/or pole mounted transformers were not observed on the Subject Property during the site inspection. However, a pad-mounted transformer was observed to the adjacent to the northeast of the Subject Property. The transformer appeared to be in good condition with no evidence of leakage or staining observed. Based on this information, it is not expected to represent an environmental concern. Additionally, a dry-transformer was observed in the Aquatic Center maintenance room; however, dry-transformers do not utilize PCB-containing liquid.

According to Ms. Roberts, the Subject Property is in the process of replacing the fluorescent light ballasts on the Subject Property. Many of the existing light fixtures she reported were installed during the Subject Property's first development in 1989. Many fluorescent light ballasts and capacitors manufactured prior to 1980 may contain PCBs. Disposal of leaking PCB-containing light ballasts are regulated by local, state, or federal agencies. However, under CFR §761.3, non-leaking fluorescent light ballasts and capacitors meets the definition of "PCB non-regulated waste" and their disposal is not regulated (refer to https://19january2017snapshot.epa.gov/pcbs/disposal-fluorescent-light-ballasts-flb.html). Due to the Subject Property's dates of construction, after 1980, there is a low potential for the fluorescent light fixtures to contain PCBs.

## 4.5 Waste Management and Disposal

### *4.5.1 Hazardous Waste*

The following hazardous wastes were observed within the hazardous waste storage rooms on the southern portion of the Aquatic Center building: sodium hypochlorite and muriatic acid. The sodium hypochlorite was observed in a 5,000-gallon AST and the muriatic acid was observed in three approximately 15-gallon containers. Additionally, three empty 15-gallon containers, which formerly contained muriatic acid, were observed within the storage room. According to Ms. Roberts, Waterline drops off and removes the sodium hypochlorite and the muriatic acid, weekly.

### *4.5.2 Nonhazardous Waste*

Nonhazardous waste that is generated at the Subject Property is collected into four trash containers located adjacent to the kitchen and one solid waste roll-off container located on the northern portion of the Subject Property, adjacent to the parking lot. The trash containers are emptied by WARE Disposal on a regular basis.

### *4.5.3 Solid Waste*

The Subject Property was visually examined for graded or filled areas, mounds, and depressions that might indicate that disposal of solid waste, such as fill of unknown origin, trash, and demolition debris, may have taken place. No evidence of solid waste disposal was observed on the Subject Property.

### *4.5.4 Water*

Drinking water for the Subject Property is supplied by the City of Corona.

Storm water collected on the Subject Property flows to storm drains located throughout the school campus, which lead to the municipal storm drain system.

Wastewater generated at the Subject Property is disposed of through sewer lines connected to the City of Corona sewer system. No septic systems or cesspools were identified in connection with the Subject Property. A grease trap was observed adjacent to the kitchen. According to Mr. Roberts, she believes the grease trap was installed when the building was constructed (1989). She had no knowledge pertaining to the servicing of the grease trap; however, she indicated the kitchen mostly prepares pre-prepared foods; therefore, it likely does not generate enough grease to require servicing.

## 4.6 Wells

According to EDR, the nearest water supply well is approximately ½-mile north from the Subject Property. Based on the listing, it appears that this well was destroyed. Based on a review of GeoTracker, the nearest active water production well is located greater than one mile northwest from the Subject Property. No groundwater production or monitoring wells were observed on the Subject Property during the site reconnaissance. Information regarding oil and gas wells is presented in Section 10.5.16.

## 4.7 Adjoining Properties

North – Villa Corona Mobile Home Community (1550 Rimpau Avenue) and multi-tenant residential neighborhood.

Northeast – Air Handlers Supply Inc. (1111 Olympic Drive).

East – Multi-tenant commercial building consisting of Lambert Flooring and Factory Connection (1701 Rimpau Avenue), Multi-tenant commercial building consisting of Ambient Environmental, Leaverton Section, Hearts Bio Inc., and Inland Medical Services (1709 Rimpau Avenue), and the Hensley at Corona Pointe Apartments (1171 Baywood Drive).

South – Single-family residential neighborhood.

West – Three multi-tenant commercial medical office building (854 Magnolia Avenue, 1810 and 1820 Fullerton Avenue) and the Vintage Terrace Senior Apartments.

# 5.0 PROPERTY HISTORY

EEC evaluated historical land use at the Subject Property through the examination of selected historical aerial photographs, historical topographic maps, city directories, and user provided information. The Subject Property was undeveloped from the early 1900s until the early 1930s when it consisted of groves. The agricultural use of the Subject Property continued until 1985, when the Subject Property was cleared of vegetation. In 1989 the majority of the existing high school was developed on the Subject Property. Additions and renovations of the Subject Property took place in 1993, with the development of the existing Aquatic Center; and between 2009 and 2012, when the southern portion of the Subject Property

were redeveloped with the existing classroom and kitchen buildings. Since at least 2012, the high school has resembled its existing configuration.

## 5.1 Aerial Photographs

The type and layout of structures visible in an aerial photograph of a property can often indicate the general type of on-site activity and land use; however, specific elements of a property operation cannot normally be determined from the photographs. EEC reviewed aerial photographs provided by EDR for the years of 1931, 1938, 1948, 1953, 1959, 1961, 1967, 1975, 1985, 1989, 1990, 2006, 2009, 2012, and 2016 (Appendix C, *Aerial Photographs*). Table 5-1, *Historical Land Use Based on Aerial Photographs*, summarizes the land use history of the Subject Property and vicinity based on a review of aerial photographs.

**Table 5-1, Historical Land Use Based on Aerial Photographs**

| Year | Subject Property | Vicinity |
|---|---|---|
| 1931 | The Subject Property consists of groves. | Surrounding properties consists of groves, additionally, roads abut the property to the east and west, and a residence is developed to the west of the central portion of the Subject Property. |
| 1938 | There are no significant changes from the previous photograph. | Clearing of the groves was observed to the east of the southern portion of the Subject Property. |
| 1948, 1953 | There are no significant changes from the previous photograph. | There are no significant changes from the previous photograph. |
| 1959 | There are no significant changes from the previous photograph. | Property to the east of the southern portion of the Subject Property is improved with groves. |
| 1961, 1967 | There are no significant changes from the previous photograph. | There are no significant changes from the previous photograph. |
| 1975 | The groves are replaced with row crops. | Clearing of the groves was observed to the north of the western portion of the Subject Property and west of the southern portion of the Subject Property. Additionally, the existing elementary school is developed with the southwest. |
| 1985 | Clearing of the vegetation on the Subject Property. | The property to the north is redeveloped with the existing residential neighborhoods. The property to the west of the northern portion of the Subject Property is redeveloped with the existing commercial building. |
| 1989 | Commencement of the development of the existing High School is visible, with apparent administrative buildings and classrooms and associated asphalt-paved parking lot on the eastern-southeastern portions of the property, asphalt recreation area on the central portion, and initial development of a track on the northwestern portion. Western, northeastern, and southern portions of the Subject Property consist of primarily of cleared land. | Surrounding properties are developed with the existing residential neighborhoods to the south and east of the southern portion of the Subject Property. Initial development of the commercial buildings to the northeast, northwest, and east of the northern portion of the Subject Property is visible on this photograph. |

| Year | Subject Property | Vicinity |
|---|---|---|
| 1990 | The northeastern portion of the Subject Property is developed with an asphalt-paved parking lot; northwestern portion is developed with the existing track; central portion is improved with tennis courts; and the western and southern portions of the Subject Property consist of vacant grass fields. | There are no significant changes from the previous photograph. |
| 2006 | The western and southern grass fields are improved with baseball diamonds. The existing pool is visible on the western portion of the northern asphalt-paved parking lot. | The commercial area to the northeast and east of the northern portion of the Subject Property is fully developed. The property to the west of the southern portion of the Subject Property if developed with the existing apartment complex. The property to the northwest is developed with the existing commercial buildings. The surrounding properties resemble their existing configurations. |
| 2009 | The southernmost classrooms were cleared from the Subject Property and the asphalt-recreational area is improved with apparent portable classrooms. | There are no significant changes from the previous photograph. |
| 2012 | The cleared area is redeveloped with the existing classroom building. The administrative/classroom building on the northeast portion of the property is redeveloped with the existing building. | There are no significant changes from the previous photograph. |
| 2016 | There are no significant changes from the previous photograph. | There are no significant changes from the previous photograph. |

## 5.2 Topographic Maps

The general land use of a property can often be discerned from the type and layout of structures and features depicted on a historical topographic map. However, discrete elements of a Subject Property operation cannot normally be determined from the map. EEC reviewed historical USGS topographic maps for the years of 1902, 1942, 1947, 1954, 1967, 1973, 1974, 1975, 1981, 1982, 1988, 1997, 2012, 2015, and 2018 (Appendix D, *Historical Topographic Maps*). A summary of the land use history of the Subject Property and vicinity based on a review of topographic maps is provided in Table 5-2, *Historical Land Use Based on Topographic Maps.*

**Table 5-2, Historical Land Use Based on Topographic Maps**

| Quadrangle, Year | Subject Property | Vicinity |
|---|---|---|
| Corona, 1902 | The Subject Property is undeveloped. | Adjoining properties are undeveloped, with the exception of paved roads located to the east and west of the Subject Property and apparent residences located to the southeast and central west. |

| Quadrangle, Year | Subject Property | Vicinity |
|---|---|---|
| Corona and Vicinity, 1942 | There are no significant changes from the previous map. | There are no significant changes from the previous map. |
| Corona, 1947 | The Subject Property is improved with groves. | The surrounding properties are improved with groves. |
| Corona South and Corona North, 1954 | There are no significant changes from the previous map. | There are no significant changes from the previous map. |
| Corona South and Corona North, 1967 | | |
| Corona South and Corona North, 1973 | | There are no significant changes from the previous map, except that the property to the southwest is developed with the existing park building. |
| Corona South, 1974 and Corona North, 1975 | The Subject Property consists of fallow agricultural land. | There are no significant changes from the previous map. |
| Corona South, 1982 and Corona North, 1981 | There are no significant changes from the previous map. | |
| Corona South, 1988 | | Surrounding properties are developed with the existing residential neighborhood to the north and commercial building to the west. |
| Corona South, 1997 | The Subject Property is developed with the existing high school consisting of recreational fields on the western portion and classroom and administrative buildings on the eastern portion. | Surrounding properties are developed with the existing mixed commercial and residential area to the east and existing residences to the south. |
| Corona South and Corona North, 2012 | Due to the style of this map, no specific features are depicted; only roads, water features, and specific points of interest, such as fire stations. | Due to the style of this map, no specific features are depicted; only roads, water features, and specific points of interest, such as fire stations. |
| Corona South and Corona North, 2015 | | |
| Corona South and Corona North, 2018 | | |

## 5.3 City Directories

City directories from 1921 to 2017 were reviewed (Appendix E, *City Directory Report*). According to the city directories, the Subject Property was identified as Centennial High School from 1990 through 2017. Listings for the Subject Property prior to 1990 were not identified. Residential listings were identified on surrounding properties from 1990 to 2017. Additionally, the following listings were identified on adjoining properties:

- 1810 Fullerton Avenue (western adjoining property): Medical office listings, consisting of Back Pain Relief, Optometry, Family Health Care of Corona, CG Corona Medical LP, etc. from 1999 to 2017.

## 5.4 Fire Insurance Maps

EDR was contracted to conduct a search for Sanborn fire insurance maps (Appendix F, *Historical Sanborn Maps*). Fire insurance maps depict land use history for many portions of the United States and assist in determining whether there may be potential environmental contamination on or near a Subject Property. These maps, which have been periodically updated since the late 19th Century, often provide valuable insight into historical property uses. According to the Certified Sanborn Map Report, the Subject Property is an unmapped property.

## 5.5 Previous Environmental Reports

Various records were provided by the client consisting of: plant/tree inventory, commercial carpets 1989 product guide, As-Builts for the exercise buildings, door manuals, authorized service agency listings and operations manuals, concrete logs, bench filter booth drawings, construction records which include track resurfacing, food service equipment, locker construction, construction contracts, electric basic materials logs, pluming stadium upgrade records, field inspections, fire protection records, food service equipment specifications, gymnasium HVAC and sound systems, bids for the demolition of former buildings, roof plans, irrigation plans, and a Compaction Report dated July 1989, prepared by CHHJ Geotechnical Inc. for the development of the Subject Property. Additionally, the following records were identified associated with the Aquatic Center: Operation and maintenance manuals and swimming pool warranties associated with the faucets and showers, and pool equipment such as the filtration system, and pumps.

Environmental concerns were not identified based on a review of the provided records.

Additionally, previous soil investigations conducted at the Subject Property were identified through the Department of Toxic Substances Control (DTSC) online database, EnviroStor. These previous investigations are further discussed in Section 8.0.

## 5.6 Property Title Records

EDR was contracted to conduct a search for environmental liens and AULs pertaining to the Subject Property. According to the EDR lien search report and a review of a User-provided Preliminary Title Report dated December 14, 2021, title to the Subject Property is vested in Corona Unified School District of Riverside County. No environmental liens or AULs were identified for the Subject Property in the Environmental Lien Search Report or Preliminary Title Report (Appendix G, *Title Records*).

# 6.0 INTERVIEWS

During this assessment, Ms. Jorquiera interviewed Ms. Jacquelyn Roberts, the Construction Director I – Facilities, with CNUSD to obtain information related to RECs in connection with the Subject Property. Ms. Roberts indicated the following:

- She has been associated with the Subject Property for approximately seven months.
- The Subject Property was formerly utilized for agricultural purposes from the late 1940s through the early 1960s.
- The Subject Property was developed with the existing high school in 1989/1990.
- In 1993, the existing Aquatic Center was developed on the Subject Property.
- A diesel fueled emergency generator is located on the Subject Property. She is not aware of any

spills or releases associated with the generator.
- The school is in the process of swapping out the fluorescent lights, however, she suspects the fluorescent lights within the Aquatic Center will remain, since the building is being replaced.
- The pool heater was installed in the early 1990s and runs on natural gas.
- She is not aware of any asbestos containing materials (ACM) or lead based paint (LBP) on the Subject Property or water infiltration issues on the Subject Property.
- Buildings 100, 200, 300, and 800 are utilized for general classrooms, building 400 is the 'industrial building' and contains the wood shop, building 300 consists of general classroom and contains the ceramics room.
- The Subject Property formerly had an automotive class, as such car batteries were formerly stored on the Subject Property.
- A Preliminary Endangerment Assessment (PEA) was completed on the Subject Property in 2001 and a Supplemental Site Investigation (SSI) was completed on the Subject Property in 2009. These reports were reviewed by EEC and are further discussed in Section 8.0.
- A clarifier was formerly utilized on the Subject Property. She indicated the clarifier was investigated in the 2009 SSI; however, based on the review of the SSI, soil in the vicinity of the clarifier was not investigated for petroleum hydrocarbons or VOCs.
- The Subject Property was formerly permitted with telecommunication antenna equipment. The antenna equipment was located on the main gym's roof; however, in 2017 it was removed.
- She is not aware of any wastewater, waste disposal, fill dirt, dumped or discarded items, wells, or any other environmental features or concerns at the Subject Property.
- During the site reconnaissance, Ms. Roberts also provided information related to site operations.

# 7.0 REGULATORY AGENCY FILE REVIEWS

EEC submitted written requests to various government agencies for information regarding historical land use and potential environmental issues and to evaluate the potential for the Subject Property to be impacted by off-site sources of contamination (Appendix H, *Agency Correspondence*).

## 7.1 Federal

### *7.1.1 United States Environmental Protection Agency*

On August 11, 2022, EEC accessed the USEPA My Property Environmental Databases search. According to the online database, there are no records on file for the Subject Property.

## 7.2 State

### *7.2.1 California Department of Toxic Substances Control*

On July 29, 2022, EEC requested a file review with the State of California Department of Toxic Substances Control (DTSC). EEC received a written response on August 1, 2022, which indicated that there were no files for the Subject Property at their office.

EEC also reviewed the DTSC EnviroStor website to determine if the Subject Property or any surrounding properties have land use restrictions. According to the website, no environmental liens or AULs were identified for the Subject Property or adjoining properties. Subject Property records pertaining to the PEA and SSI were obtained from EnviroStor. These reports are discussed in Section 8.0 of this report.

### *7.2.2 State of California Regional Water Quality Control Board, Santa Ana Region*

On July 29, 2022, EEC requested a file review with the State of California Regional Water Quality Control Board – Santa Ana Region (SARWQCB). On August 3, 2022, the SARWQCB responded that there is storm water information at the Water Boards Stormwater Multiple Application & Report Tracking System (SMARTS) online database. No violations were noted.

On August 11, 2022, EEC accessed the SMARTS database. The following information is on file for the Subject Property:

- Storm Water Pollution Prevention Plan for Centennial HS - Phase II - Theatre Building
- Original Notice of Intent (WQ ORDER No. 2009-0009-DWQ)
- Notice of Termination Photographs
- Water Balance Site Map- Phase II- Theatre Building
- Submitted Annual Report for 2010-2011

## 7.3 Regional

### *7.3.1 South Coast Air Quality Management District*

On August 11, 2022, EEC accessed the South Coast Air Quality Management District Facility Information Detail (FIND) website. Based on a review of the FIND website, no records are on file for the Subject Property.

## 7.4 County

### *7.4.1 Riverside County Environmental Health Department*

On July 29, 2022, EEC requested a file review with the Riverside County Department of Environmental Health (DEH) to review available files for the Subject Property. EEC has not received a response from the DEH as of the date of this report.

### *7.4.2 Riverside County Fire Department*

On July 29, 2022, EEC requested a file review with the Riverside County Fire Department (RCFD) to review available files for the Subject Property. On August 19, 2022, the RCFD indicated no records were on file for the Subject Property.

## 7.5 Local

### *7.5.1 City of Corona*

On July 29, 2022, EEC submitted public records requests to the City of Corona for building records and industrial wastewater records. On August 2, 2022, the City of Corona provided the following records for the Subject Property:

- The City of Corona DWP Fats, Oils and Grease (FOG) Program indicated three permits were issued to the Subject Property: Permit number FOG-073-S, FOG-074-S, and FOG-075-S. The permits are

identified as inactive.

- A General Inspection/Incident Report Form was filed on February 18, 2020 that reported a sewer spill incident at Centennial High School. The school's maintenance staff resolved the issue.

- On March 8, 2022, Centennial High School submitted a hazardous material inventory and emergency response and training plan to the California Environmental Reporting System (CERS) and was accepted on May 24, 2022. The form indicated there are no USTs onsite. The document indicated that the following hazardous waste is generated:

  - Moist clay from the Ceramics room.
  - Diesel fuel in an 80-gallon aboveground tank.
  - Sodium Hypochlorite, Hydrochloric Acid 22M, and Carbon Dioxide in the pool storage area.
  - Sulfuric Acid 6M, Nitric Acid 6M, and Colchicine in the Science Storage Room 832.
  - Helium in the Student Store storage room.

Additionally, according to the EDR Building Permit Report, the Subject Property was permitted to transport and display fireworks in 2016 and 2017.

As building permits are not issued for the Subject Property, the representative of CNUSD, Ms. Roberts, provided several documents associated with plans, manuals, and operation documents for the Subject Property. These records are further discussed in Section 5.5. Ms. Roberts also indicated that the Subject Property does not generate industrial wastewater; however, she noted that the Subject Property was formerly permitted with a clarifier. The formerly used clarifier was associated with the former auto shop class and is further discussed in Sections 6.0 and 8.0 of this report.

## 8.0 ENVIRONMENTAL DATABASE SEARCH

EEC contracted EDR to perform a regulatory database review for the Subject Property and surrounding properties up to one-mile from the Subject Property (Appendix I, *EDR Database Search Report*). The purpose of the database review is to identify sites of potential environmental concern, such as leaking underground storage tank (LUST) sites; spills, leaks, investigation, and cleanup (SLIC) sites; historical gasoline service stations and dry cleaners; hazardous waste sites; landfills; and sites that are currently under investigation for environmental violations. The EDR database compilation report includes maps showing the locations of the environmental concerns.

The Subject Property was identified as Centennial High School in the environmental databases, California Integrated Water Quality system (CIWQS), California Environmental Reporting System Hazardous Waste (CERS HAZ WASTE), California Hazardous Material Incident Report System (CHMIRS), California Environmental Reporting System (CERS), Hazardous Waste Tracking System (HWTS), Facility Manifest Data (HAZNET), Resource Conservation and Recovery Act Non Generators / No Longer Regulated (RCRA NonGen/NLR), Facility Index System / Facility Registry System (FINDS), Enforcement Compliance History Information (ECHO), EnviroStor Database (ENVIROSTOR), and School Property Evaluation Program (SCH).

Based on a review of the listings, the Subject Property was permitted with stormwater construction permits in 2004 and 2008 during the improvements to the track and field recreational area, the stadium, and interim housing. The Subject Property was cited with the following violations in 2016 and 2019: failure

to submit hazardous material inventory and failure to provide annual training. These violations have since been corrected and the Subject Property has returned to compliance.

The Subject Property is registered as a hazardous waste generator. Waste streams generated on the Subject Property have consisted of: photo-chemicals and photo-processing waste, laboratory waste, latex waste, unspecified organic liquid, other organic solids, hydrocarbon solvents (2011-2015), unspecified aqueous solution, unspecified oil containing waste (2011), waste oil and mixed oil (2011), unspecified solvent mixture, off-specification, aged, or surplus organics, and oil/water separation sludge (2010-2011). Current waste streams on the Subject Property are further discussed in Sections 4.3.2, 4.3.3, 4.5.1, 4.5.2, and 4.5.3. Additionally, the Subject Property was permitted with Verizon Wireless telecommunication equipment. Violations in connection to the telecommunication equipment are not reported. Furthermore, according to Ms. Roberts, this equipment was removed in 2017.

According to the ENVIROSTOR listing, the Subject Property is identified to have undergone a PEA. The PEA was prepared by Mission Geoscience Inc. (Mission) in January 2001 and is available for review through the DTSC online database (EnviroStor). According to the PEA, Mission prepared a Phase I ESA in 2000 for the Subject Property which identified the prior agricultural use as a REC. To investigate the REC, in 2000, three soil borings (CEN-1 through CEN-3) were advanced on the Subject Property. The exact locations of the borings are not reported. In July 2000, eight shallow soil samples were collected from the three borings to a maximum depth of 2.5 feet bgs. The samples were analyzed for organochloride pesticides (OCPs) and heavy metals. Pesticides were not detected above the laboratory detection limits. Metals were detected; however, they were reported to be at or below the normal background levels for the area. Based on the analytical results, Mission recommended a no further action (NFA) status for the Subject Property. The NFA letter is not available for review; however, according to EnviroStor, the DTSC granted NFA for the Subject Property on April 23, 2001.

According to EnviroStor, in January 2008, a more in-depth soil analysis was conducted by Earth Systems Southwest (ESSW) in the “Report of Phase I Environmental Site Assessment with Preliminary Pesticide and Heavy Metals Sampling”, to assess the use of OCPs and metals on the Subject Property.

Thirty-nine (39) near surface soil samples (CN-1 through CN-39) and one duplicate sample (CN-40) were collected throughout the Subject Property. The exact depths of the soil samples are not reported; however, the samples were analyzed for heavy metals, OCPs, and arsenic. Additionally, four off-site soil samples were collected (CN-41 through CN-44) and analyzed for heavy metals and OCPs. The following OCPs were detected: dichloro-diphenyl-trichloroethane (DDT), dichloro-diphenyl-dichloroethylene (DDE), and dichloro-diphenyl-dichloroethane (DDD) at maximum concentrations of 0.005 milligrams per kilogram (mg/kg); 0.027 mg/kg; and 0.003 mg/kg, respectively. DDT was also detected off-site at a maximum concentration of 0.005 mg/kg. The detected OCPs were identified to be below the United States Environmental Protection Agency’s (USEPA) Region 9 Preliminary Remediation Goals (PRGs) for residential settings. As such, ESSW did not recommend further investigation of the OCPs.

The following metals were detected in soil on the Subject Property: arsenic ranging from 1.91 to 5.35 mg/kg; barium ranging from 79.9 mg/kg to 127 mg/kg; cadmium at a maximum concentration of 0.67 mg/kg; chromium at a maximum concentration of 13.2 mg/kg; cobalt at a maximum concentration of 13.2 mg/kg; copper at a maximum concentration of 26.1 mg/kg; lead at a maximum concentration of 9.16 mg/kg, nickel at a maximum concentration of 16 mg/kg; vanadium at a maximum concentration of 31.4 mg/kg; zinc at a maximum concentration of 93.3 mg/kg; and mercury at a maximum concentration of 0.10 mg/kg. All the metals detected were either below the PRG’s levels of concern and/or within the

background levels for Riverside County. As such they were not deemed Chemicals of Potential Concern (COPC).

Additionally, at the time of the prior Phase I ESA, a clarifier and subsurface hydraulic lift were observed in the auto shop yard on the Subject Property. Additionally, approximately ten 20- to-55-gallon drums of oil were observed with minor leakage in their vicinity within the auto shop. No hydraulic oil releases were reported at the time of the 2008 Phase I ESA, and the clarifier was observed to be undamaged. As such, ESSW determined that significant hydrocarbon contamination near the hydraulic lifts and clarifier was unlikely and did not recommend further investigation at the time.

In 2009, the SSI Improvements to Centennial High School, dated April 2009, was prepared by ESSW to assess site conditions prior to the redevelopment of the portable classrooms on the southeastern portion of the Subject Property. The investigation consisted of lead sampling within the theater/cafeteria/bank room and portable classroom buildings, and sampling of near surface soils (0 to 6 inches bgs) in the vicinity of the buildings. Soil samples were analyzed for OCPs, lead, and arsenic. The hydraulic lift and clarifier were not analyzed, as they were not within the footprint of the proposed improvement area. Based on a review of the analytical results, the following maximum OCPs were identified: 4,4-DDT at 0.0046 mg/kg; 4,4-DDE at 0.052 mg/kg; and 4,4-DDD at 0.0049 mg/kg. Lead ranged from 4.62 mg/kg to 15.70 mg/kg and arsenic ranged from 2.50 mg/kg to 6.50 mg/kg. The detected OCPs were reported below the current residential San Francisco Bay Regional Water Quality Control Board's Environmental Screening Levels (ESLs) and the detected metal concentrations are consistent with the prior investigations and established background concentrations.

While the closure letter is not available to review, according to EnviroStor, in response to the analytical results presented by ESSW, the DTSC granted the Subject Property NFA on June 2, 2009.

Based on a review of the previous soil investigations, OCPs have been below the residential ESLs and lead concentrations have been below or at the background levels in the area. As such the prior agricultural use does not represent an environmental concern.

The former inground hydraulic lift and clarifier were not evaluated during previous soil investigations. While the equipment is not currently utilized, they can degrade overtime, increasing the risk of hydraulic oil, petroleum hydrocarbons and/or VOC contamination. However, based on their distance from the proposed improvements at the Aquatic Center (approximately 530 feet), the hydraulic equipment and clarifier are not considered to represent an environmental concern.

Table 8-1, *Environmental Database Search Results*, summarizes the results of the database search within 500 feet of the Subject Property that may pose an environmental concern.

## Table 8-1, Environmental Database Search Results

| Site Name and Address | Database | Location and Presumed Hydraulic Gradient Relative to Subject Property | Description |
|---|---|---|---|
| Osborn Madeline<br>1550 Rimpau Avenue | RCRA NonGen/NLR | Adjoining North / Down-gradient | According to the listing, the trailer park is registered as a non-generator in 2018 with no violations. Based on the residential use and regulatory status, anticipated depth to groundwater (greater than 100 feet bgs), and gradient relative to the Subject Property, this facility is not anticipated to represent an environmental concern. |
| Factory Connection Inc.<br>1701 Rimpau Avenue Suite 102 | RCRA NonGen/NLR, CERS HAZ WASTE | 70 feet / East / Cross-gradient | According to the listing the facility operates as a household good repair and maintenance facility. In 2021, the facility was registered as a non-generator. Violations associated with the facility are not identified. Based on the facility's operations and regulatory status, anticipated depth to groundwater (greater than 100 feet bgs), and gradient relative to the Subject Property, this facility is not anticipated to represent an environmental concern. |
| Couts Heating & Colling Inc.<br>1693 Rimpau Avenue | RCRA NonGen/NLR, CERS HAZ WASTE | 70 feet / Northeast / Down-gradient | According to the listing the facility operates as a plumbing, heating, and air conditioning contractor. In 2010, the facility was registered as a non-generator. Waste streams generated at the facility include waste oil and mixed oil and oil/water separation sludge. Violations reported at the facility between 2016 and 2020 primarily consist of general administrative violations. Additionally, the violations have all since been returned to compliance. Moreover, the facility is not identified with reported releases on the Santa Ana Regional Water Quality Control Board's online database, GeoTracker. Based on the facility's current regulatory status, lack of reported releases, anticipated depth to groundwater (greater than 100 feet bgs), and gradient relative to the Subject Property, this facility is not anticipated to represent an environmental concern. |

| Site Name and Address | Database | Location and Presumed Hydraulic Gradient Relative to Subject Property | Description |
|---|---|---|---|
| Maynard Pogue DDS and Corona Sunrise Physician Medical Group<br>1820 Fullerton Road | RCRA NonGen/NLR, RCRA-SQG | 80 feet / West / Cross-gradient | According to the listings, the facility operates as a medical office building including dental offices. The facility was registered as a non-generator in 1997 and as a small-quantity generator in 1992. Violations associated with the facility are not identified. Based on the facility's operations, gradient relative to the Subject Property, anticipated depth to groundwater (greater than 100 feet bgs), and regulatory status, this facility is not anticipated to represent an environmental concern. |
| A Family Dental<br>854 Magnolia Avenue Suite D | RCRA NonGen/NLR | 90 feet / Northwest / Cross-gradient | According to the listing, the dental office was registered as a non-generator in 2014 with no violations. Based on the facility's operations, gradient relative to the Subject Property, anticipated depth to groundwater (greater than 100 feet bgs), and regulatory status, this facility is not anticipated to represent an environmental concern. |
| Riverside Medical Clinic<br>818 and 830 Magnolia Avenue | RCRA NonGen/NLR | 340 to 360 feet / West / Cross-gradient | According to the listing, the free standing ambulatory surgical and emergency center was registered as a non-generator in 2008 and 2019 with no violations. Based on the facility's operations, anticipated depth to groundwater (greater than 100 feet bgs), gradient relative to the Subject Property, and regulatory status, this facility is not anticipated to represent an environmental concern. |
| Michael Rodak<br>1121 Olympic Drive | RCRA NonGen/NLR | 350 feet / Northeast / Down-gradient | According to the listing, the flooring contractor was registered as a non-generator in 2020 with no violations. Based on the facility's operations, gradient relative to the Subject Property, anticipated depth to groundwater (greater than 100 feet bgs), and regulatory status, this facility is not anticipated to represent an environmental concern. |
| Soff Cut<br>1112 Olympic Drive | RCA-SQG | 420 feet / East / Cross-gradient | According to the listing, the facility was registered as a small quantity generator in 2000 with no violations. Based on the facility's distance, gradient relative to the Subject Property, anticipated depth to groundwater (greater than 100 feet bgs), and regulatory status, this facility is not anticipated to represent an environmental concern. |

| Site Name and Address | Database | Location and Presumed Hydraulic Gradient Relative to Subject Property | Description |
|---|---|---|---|
| Action Industries<br>1120 Olympic Drive | RCRA-NonGen/NLR, CERS HAZ WASTE | 420 feet / East / Cross-gradient | According to the listing, the household refrigerator and home freezer manufacturing facility was registered as a non-generator in 1996 with no violations. Additionally, the facility is not identified with reported releases on GeoTracker. Based on the facility's distance, gradient relative to the Subject Property, anticipated depth to groundwater (greater than 100 feet bgs), and regulatory status, this facility is not anticipated to represent an environmental concern. |
| Oariona Lowe DDS & Evangelical Rossopoulos DDS<br>802 Magnolia Avenue Suite 105 | RCRA NonGen/NLR | 480 feet / West / Cross-gradient | According to the listing, the dental office was registered as a non-generator in 2022 with no violations. Based on the facility's operations, gradient relative to the Subject Property, anticipated depth to groundwater (greater than 100 feet bgs), and regulatory status, this facility is not anticipated to represent an environmental concern. |
| GNB Lease Holdings LLC<br>1131 Olympic Drive | RCA-SQG | 530 feet / Northeast / Down-gradient | According to the listing, the facility, a storage batter manufacturer, was registered as a small quantity generator in 2001 with no violations. Additionally, the facility is not identified with reported releases on GeoTracker. Based on the facility's distance, gradient relative to the Subject Property, anticipated depth to groundwater (greater than 100 feet bgs), and regulatory status, this facility is not anticipated to represent an environmental concern. |

The database compilation report also includes a list of unmappable sites (Orphans Summary). Data provided, such as city names, addresses, and zip codes, were cross-referenced with visual site reconnaissance and searches of online mapping tools to determine if the Subject Property or any nearby sites of potential environmental concern were listed. The Subject Property was not listed on the unmappable sites list. No sites of potential environmental concern were identified on the unmappable sites list.

## 9.0 VAPOR ENCROACHMENT SCREENING

As part of this Phase I ESA, EEC conducted a vapor encroachment screening utilizing the ASTM E2600-15 Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions and the Buonicore Methodology for Identifying the Area of Concern Around a Property Potentially Impacted by Vapor Migration from Nearby Contaminated Sources (Buonicore, 2011). The area of concern (AOC) is determined from the Subject Property boundary to the potential source of contamination. The AOC

distance is determined based upon a conservative plume length estimate and the distance that volatilized vapors may travel along a path of least resistance from a plume. A 90th-percentile distance was utilized to determine the plume length in order to determine AOCs.

EEC reviewed release cases and potential sources of releases (such as historical gasoline service stations and dry cleaners) within the 1,760-foot AOC for non-petroleum hydrocarbons and the 528-foot AOC for petroleum hydrocarbons. Using the Buonicore method, EEC reduced the AOC for release cases that were determined to be cross-gradient or downgradient relative to the Subject Property. Using this method, the AOC for cross-gradient sites with non-petroleum hydrocarbons is 365 feet and the AOC for cross-gradient sites with petroleum hydrocarbons is 95 feet (dissolved petroleum hydrocarbons) or 165 feet (with free product). The AOC for downgradient sites is 100 feet, unless it is a petroleum hydrocarbon release with dissolved petroleum hydrocarbons, in which case the AOC is 30 feet.

Using the AOCs described above, EEC did not identify any Vapor Encroachment Condition (VECs) in connection with the Subject Property.

# 10.0 NON-ASTM CONSIDERATIONS

## 10.1 Asbestos

Asbestos is a naturally occurring fibrous mineral that was extensively used in the past for its insulation qualities. Asbestos fibers can be found in thermal insulation, fire-proofing material, vinyl floor tiles, mastic, wallboard, ceiling tiles, roofing material, and numerous other materials. After asbestos was determined to be carcinogenic, its use was severely restricted in the late 1970s. Building materials are classified as asbestos-containing material (ACM) if they contain greater than 1% asbestos fibers. Such material is considered a hazardous material and must be properly disposed of when removed or managed under an operations and maintenance plan.

An asbestos survey was not conducted as part of this assessment. The Subject Property (with the exception of Building 900 and the Aquatic Center) was developed in 1989. The Aquatic Center was developed in 1993. Building 900 was developed between 2009 and 2012. Based on the construction dates, ACM is not anticipated to be present on the Subject Property. However, only a complete, intrusive ACM sampling survey can definitively determine the presence of ACM.

## 10.2 Lead-Based Paint

A lead-based paint survey was not conducted as part of this assessment. The Subject Property (with the exception of Building 900 and the Aquatic Center) was developed in 1989. The Aquatic Center was developed in 1993. Building 900 was developed between 2009 and 2012. Based on the construction dates, later than 1978, there is a low potential that LBP exists on the Subject Property; however, only a complete, LBP sampling survey can definitively determine the presence of LBP.

## 10.3 Radon

Radon is an odorless, radioactive gas that occurs naturally in soil, rock, and building materials. It results from the natural radioactive decay of radium and uranium. In outdoor air, radon is generally diluted to such low concentrations that it is usually not of concern. In enclosed spaces, such as homes, offices, and/or

basements, radon can accumulate and pose an environmental concern. Indoor levels of radon depend on a building's construction and the concentration of radon in the underlying soil and rock.

The Subject Property is located within Riverside County, California, which has been designated by the USEPA as Radon Zone 2. Zone 2 is designated as having an indoor radon average between two and four picocuries per liter (pCi/L). The USEPA has set a standard of 4.0 pCi/L as the concentration of radon at which corrective action is recommended. According to the EDR environmental database reports, Federal radon testing was performed at 12 sites in Riverside County and 100% of the sites had radon levels that were below four pCi/L. State radon testing was performed at five sites in the Subject Property zip code and none of the sites contained radon levels that exceeded 4.0 pCi/L. Based on this information, there is low potential for elevated levels of radon.

## 10.4 Federal Wetlands

No designated wetlands were identified on the Subject Property based on a review of the EDR environmental database report. In addition, no natural standing bodies of water or typically hydrophytic vegetation were observed on the Subject Property during site reconnaissance. A review of the U.S. Fish & Wildlife Service National Wetlands Inventory Wetlands Mapper did not identify any riparian or wetlands areas on the Subject Property or within half a mile of the Subject Property.

## 10.5 Preliminary Environmental Screening Checklist

The following sections provide information relevant to the environmental screening of proposed projects at existing school sites. An associated checklist is included in Appendix J.

### *10.5.1 Powerline/Electromagnetic Fields*

Utility poles with electrical wires were observed along Rimpau Avenue, approximately 60 feet from the Subject Property. Based on the California Energy Commission Transmission Lines – California Electric Transmission Line Map for the Subject Property area, the transmission line closest to the Subject Property is along California Avenue, approximately 1,800 feet to the southeast. The transmission line is identified as Southern California Edison 66 kV. The project is not expected to create any new significant safety hazards or exacerbate any existing safety hazards to students from the power lines, because construction activities will not interfere with any existing electrical transmission features.

### *10.5.2 Railroads*

No railroads are located within 1,500 feet of the Subject Property. Therefore, the project will not result in any new significant safety hazards or exacerbate any existing safety hazards to students from railroads.

### *10.5.3 Traffic Noise*

Construction activities will take place within the school boundaries and are not located along the adjacent roads; therefore, the project will not result in any new significant safety hazards or exacerbate any existing safety hazards to students from adjacent roads.

### *10.5.4 Faults*

The Subject Property is located in a seismically active area, and in close proximity to several of many active and potentially active fault zones in southern California. According to the USGS Seismic Hazard Map of California, the Subject Property is located in an area of moderate to high seismic hazard (USGS, 2022). According to the California State Department of Conservation, California Geological Survey, the nearest major fault is the Chino Fault, which is a segment of the Elsinore Fault zone, located approximately 2.4 miles to the west-southwest of the Subject Property (CDMG, 1954). It can produce a maximum credible earthquake greater than 6.0. The City of Corona Local Hazard Mitigation Plan indicates that ground surface rupture due to active faulting is considered possible in the western portion of the City of Corona where known active or potentially active faults are mapped. Geological evidence indicates that the Glen Ivy and portions of the Whittier Faults are active and that the Chino-central Avenue Fault is potentially active (City of Corona, 2017).

No active faults are located on or in the immediate adjacent vicinity of the Subject Property. The Subject Property is not located within an Alquist-Priolo Fault Zone for surface fault rupture hazards. Based on this information, the project will not create any new significant safety hazards or exacerbate any existing safety hazards to students from an active earthquake fault or fault trace onsite.

### *10.5.5 Flood or Inundation Area*

According to information provided on the Federal Emergency Management Agency Flood Insurance Rate Map for the City of Corona, California, Map Number 06065C1356G, dated August 28, 2008, the Subject Property is located in Zone X, which is an area of minimal flood hazards, outside the 1-percent and 0.2-percent-annual-chance floodplains. Therefore, the project will not create any new significant safety hazards or exacerbate and existing safety hazards to students from flooding or dam inundation.

### *10.5.6 Pipelines and Aboveground Tanks*

No aboveground water tanks were identified on or near the Subject Property. One diesel belly tank, associated with the emergency generator is located on the Subject Property between the football field and tennis courts. The diesel fuel is stored in a belly tank within the generator. The generator is located on concrete. Staining and/or evidence of a release was not observed in the vicinity of the generator. According to Ms. Roberts, she is not aware of any releases or issues associated with the emergency generator.

The Pipeline and Hazardous Materials Safety Administration, National Pipeline Mapping System (NPMS) Public Map Viewer was accessed on August 16, 2022, to determine if any hazardous liquid pipelines are located on or near the Subject Property. According to the map, an active (filled) natural gas pipeline is located along Fullerton Ave. to the adjacent west of the Subject Property. The pipeline is operated by Southern California Gas Company and the pipeline identification number is 59001. The Gas Company was contacted on July 29, 2022, to obtain any additional available information about nearby pipelines. Additionally, the Office of the State Fire Marshal was contacted August 11, 2022, to obtain any additional available. The Gas Company and the State Fire Marshal have not responded to EEC's request as of the date of this report.

Based on the lack of pipelines identified on the Subject Property and lack of known releases associated with the diesel belly tank, the project will not create any new significant safety hazards or exacerbate and existing safety hazards to students from pipelines or aboveground tanks.

### *10.5.7 Liquefaction and Landslides*

According to the City of Corona Local Hazard Mitigation Plan, the liquefaction potential in Corona is low (City of Corona, 2017). The Temescal Wash is located approximately one mile northeast of the Subject Property and the Santa Ana River is located approximately five-mile northwest of the Subject Property. Based on this information, the Subject Property is not located in a liquefaction area. Landslides are not considered to be a threat, due to the flat topography of the Subject Property and the relatively flat topography of the surrounding area. Based on this information, the project will not create any new significant safety hazards or exacerbate any existing safety hazards to students from liquefaction or landslides.

### *10.5.8 Traffic and Pedestrian Safety*

Rimpau Avenue is located just east of the Subject Property and Fullerton Avenue is located just west of the Subject Property. Construction activities will take place within the school boundaries and are not located along these City Roads; therefore, the project will not result in any new significant safety hazards or exacerbate any existing safety hazards to students from adjacent streets.

### *10.5.9 Compatible Zoning*

The Subject Property is located within the City of Corona. According to the City of Corona zoning map, the Subject Property is located in the School zone. The property to the south is located within the Single-Family Residential zone, the property to the southwest is located within the School zone, the property to the west is located in the Mixed Use and Commercial Zones, the properties to the north and east-southeast are located in the High Density Residential zone, and the properties to the east and northeast are located in the Light Industrial zone. The project involves construction of one new Aquatic Center. Because all pre-project conditions will be restored upon completion, the project will not have any impacts on land use or zoning.

### *10.5.10 Light, Wind, Air Pollution*

Because the Subject Property is located in a primarily residential area, with schools and mixed commercial area, light pollution is not expected to represent a concern. The climate is characterized by warm summers and mild winters with a majority of the precipitation occurring during the winter months. In the daytime, wind is typically channeled through the Santa Ana River Canyon, which creates steady, abnormally high wind velocities from the west, greater than 12 miles per hour. At night, wind conditions typically reverse and light winds flow toward the ocean at about one mile per hour. Periods of extremely hot weather, winter storms, or Santa Ana winds can interrupt the typical weather patterns (City of Corona, 2017). According to site reconnaissance observations, maps of the surrounding area, and the SCAQMD, no sources of air pollution are located near the Subject Property. The project involves the redevelopment of the Aquatic Center. Because all pre-project conditions will be restored upon completion, the project will not result in any new significant safety hazards or exacerbate any existing safety hazards to students from light, wind, or air pollution.

### *10.5.11 Easements*

According to the Corona Property Information System, there are no easements located on the Subject Property. During the site reconnaissance, a pathway easement was observed on the northern portion of the Subject Property. The easement is used as a pathway for access to the Subject Property. The easement

is not expected to restrict access or building placement.

### *10.5.12 Border Zone Property*

Based on a review of the regulatory environmental database (Section 8.0), GeoTracker, and EnviroStor, the Subject Property is not located within 2,000 feet of a significant disposal of hazardous waste site. Therefore, the project will not result in any new significant safety hazards or exacerbate any existing safety hazards to students from a border zone property.

### *10.5.13 Cellular Phone Towers*

No cellular phone towers were observed on or adjacent to the site. Based on a review of the regulatory databases the Subject Property was formerly permitted with telecommunication equipment, operated by Verizon. According to Ms. Roberts, the telecommunication antenna equipment was located on the main gym's roof; however, in 2017 it was removed. Therefore, the project will not result in any new significant safety hazards or exacerbate any existing safety hazards to students from cellular phone towers.

### *10.5.14 Air Pollution*

According to site reconnaissance observations, maps of the surrounding area, and the SCAQMD, no freeways, major rail lines, or major stationary sources of emissions are located within 500 feet of the Subject Property. Based on the lack of major sources of emissions identified on or near the Subject Property, the Subject Property is not expected to be high-risk for air pollution aside from the typical Los Angeles Basin air quality issues. Based on the nature of the project, which involves the redevelopment of the Aquatic Center, the project will not result in any new significant safety hazards or exacerbate any existing safety hazards to students from air pollution. Additionally, dust from construction activities can be mitigated through engineering controls.

### *10.5.15 Methane Zone*

According to the California Geologic Energy Management Division (CalGEM) Well Finder, the Subject Property is not located in an oil field. The nearest oil field is identified as the Prado Corona Oil/Gas Field. The closest boundary of the Prado Corona Oil/Gas Field is located approximately 3.5-mile northwest of the Subject Property. Additionally, no evidence of other sources of methane, such as dairies or landfills, were identified on the Subject Property. Based on this information, the project will not result in any new significant safety hazards or exacerbate any existing safety hazards to students from a known methane zone or oil field.

### *10.5.16 Oil Wells*

The California CalGEM Well Finder was accessed on August 16, 2022. According to the website, the closest well to the Subject Property is located approximately 2.2-miles to the southeast. The well is identified as idle oil and gas well. The next closest well, a plugged well, is located approximately 2.7 miles to the southeast.

No oil wells were identified on the Subject Property and the closest wells are more than ¼-mile from the Subject Property; therefore, the project will not result in any new significant safety hazards or exacerbate any existing safety hazards to students from an onsite oil well.

### *10.5.17 Airports*

The Subject Property is not located adjacent to an airport or private airstrip. The closest airport is Corona Municipal Airport, which is approximately five miles (approximately 4.3 nautical miles) northwest of the Subject Property. Based on the nature of the project, which involves the redevelopment of the Aquatic Center, the project will not result in a significant safety hazard or exacerbate any existing safety hazards to students from an airport within two nautical miles of the Subject Property.

# 11.0 FINDINGS, CONCLUSIONS, AND RECOMMENDATIONS

## 11.1 Findings

Based on site observations and information gathered, the Phase I ESA revealed the following in connection with the Subject Property:

- Groundwater is anticipated at 115 feet below ground surface (bgs) and the flow direction is expected to be to the north-northeast.
- The Subject Property was used for agricultural purposes from the early 1930s until the mid-1980s. Two soil investigations to evaluate the presence of organochloride pesticides (OCPs), heavy metals, and arsenic were conducted throughout the Subject Property in 2000 and 2009. Based on a review of the analytical results, dichloro-diphenyl-trichloroethane (4,4-DDT), dichloro-diphenyl-dichloroethylene (4,4-DDE) and dichloro-diphenyl-dichloroethane (4,4-DDD) were detected in soil at concentrations below the current residential San Francisco Regional Water Quality Control Board's Environmental Screening Levels (ESLs) and below the United States Environmental Protection Agency (USEPA) Region 9 Preliminary Remediation Goals (PRGs). Metals and arsenic were identified to be below screening levels or at the background levels for the area. Based on the analytical results, the Department of Toxic Substances Control granted No Further Action (NFA) letters to the Subject Property for each of the soil investigations on April 23, 2001, and on June 2, 2009. Based on the former analytical results, it is unlikely for OCPS and metals in exceedance of regulatory standards to exist on the Subject Property. Therefore, the former agricultural use on the Subject Property does not represent an environmental concern.
- Evidence of an in-ground hydraulic lift and clarifier was observed on the Subject Property in the vicinity of the maintenance building/yard. Soil in their vicinity was not investigated for petroleum hydrocarbons or volatile organic compounds (VOCs) during the former soil investigations on the Subject Property. While the equipment is not currently utilized, they can degrade overtime, increasing the risk of contamination. However, they are not expected to represent an environmental concern for the proposed improvements at the Aquatic Center based on the distance of these features from the Aquatic Center (approximately 530 feet).
- The following chemicals are stored within the Aquatic Center building: sodium hypochlorite, muriatic acid, chlorine, and chlorine oxidizers. Additionally, the Aquatic Center is equipped with a pool filtration system and a natural gas pool heater. Spills and/or evidence of release were not observed in the vicinity of the chemicals and pool equipment. The Aquatic Center is not anticipated to represent an environmental concern.
- Due to the date of constructions of the Subject Property ranging from the late 1980s through the 2000s, there is a low potential for lead-based paint (LBP) and asbestos-containing material (ACM) to exist on the Subject Property. However, only complete, LBP and ACM sampling surveys can definitively determine the presence of LBP and ACM.

## 11.2 Conclusions and Recommendations

EEC has performed this Phase I ESA in conformance with the scope and limitations of ASTM Practice E1527-13 of Centennial High School located at 1820 Rimpau Avenue in Corona, Riverside County, California, the Subject Property. Any exceptions to, or deletions from, this practice are described in Section 1.4, *Limitations*, of this report. RECs were not identified in connection with the proposed project to improve the existing Aquatic Center.

Based on the results of this assessment, no additional investigation is recommended at this time.

# 12.0 QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS

This Phase I ESA was performed by Ms. Gabriela Jorquiera, a staff scientist trained in the performance of environmental investigations pursuant to accepted government and industry standards. Ms. Jorquiera has four years of experience in environmental consulting and has a Bachelor of Arts in Environmental Studies from University of California in Santa Cruz, California. Ms. Jorqueira has performed hundreds of Phase I ESAs in California, and throughout the United States.

This Phase I ESA was reviewed and overseen by Mr. Jeff Hensel, Senior Project Geologist with EEC. Mr. Hensel is a Registered Geologist (No. 5759) in the State of California. He has over 30 years of experience as an environmental professional and has performed numerous Phase I ESAs in California. In addition, Mr. Hensel provides senior oversight and project management of subsurface investigations, remediation of a variety of contaminants, and fate and transport modeling to define cleanup goals and objectives.

Résumés for environmental professionals involved in this assessment are included in Appendix K, *Environmental Professional Résumés*.

## 12.1 Certification

We declare that, to the best of our professional knowledge and belief, we meet the definition of Environmental Professional as defined in §312.10 of 40 CFR § 312.

We have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the Subject Property. We have developed and performed all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

**DRAFT**
Gabriela Jorquiera
Staff Scientist

**DRAFT**
Jeff Hensel, PG
Senior Project Geologist

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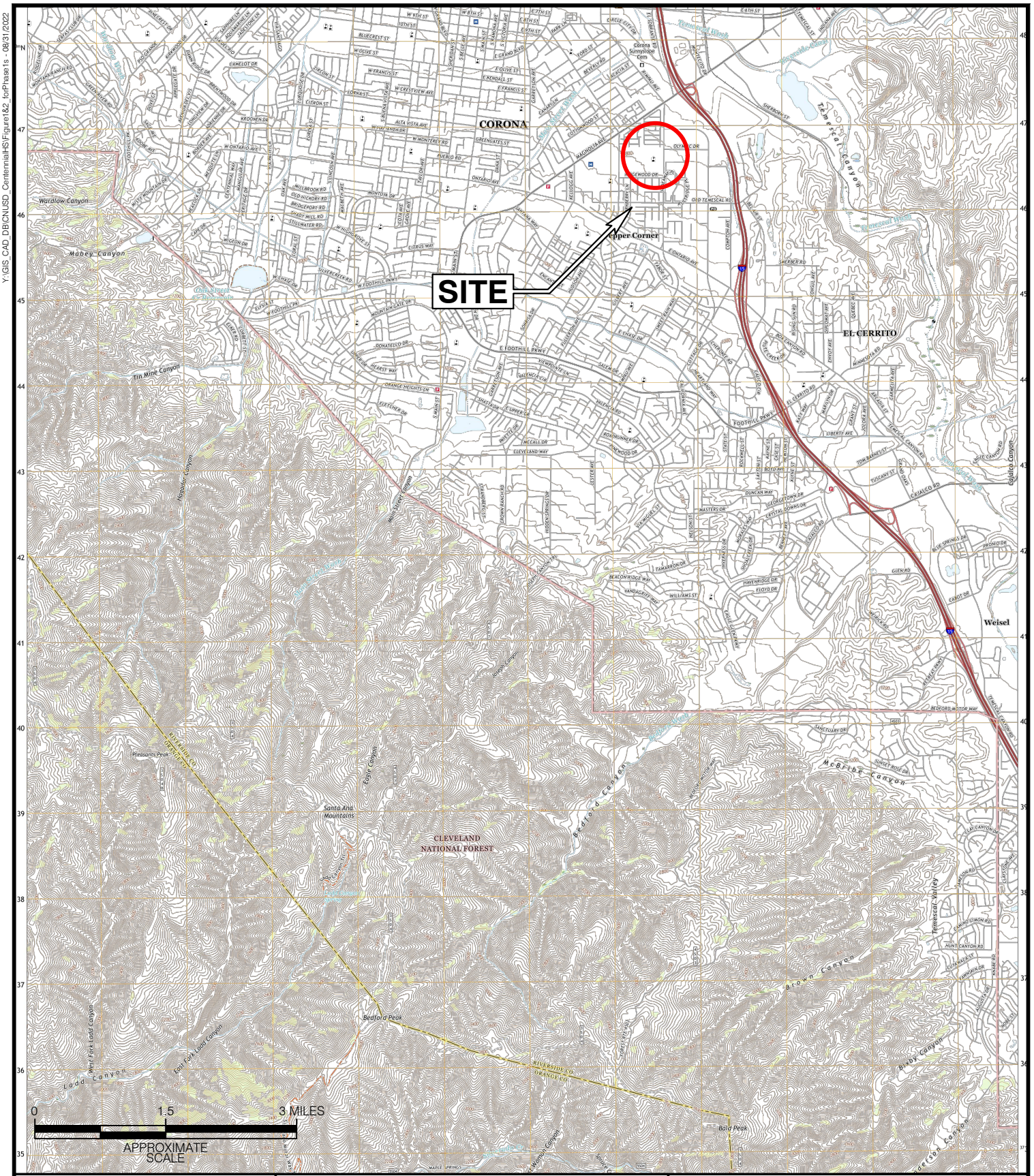
# FIGURES




EEC ENVIRONMENTAL

LEGEND

Site Location

Map Source: U.S. Geological Survey, 7.5-Minute Topographic Quadrangle Map Corona South, CA; 2022

# SITE LOCATION MAP

Centennial High School Aquatic Center
1820 Rimpau Avenue
Corona, California

| Date | Drafter | PE/PG | Project Number | Figure |
|---|---|---|---|---|
| August 31, 2022 | AC | TB | S-3757.01T | 1A |
| | | Project Manager: LH | File: Figure1&2_forPhase1s | |

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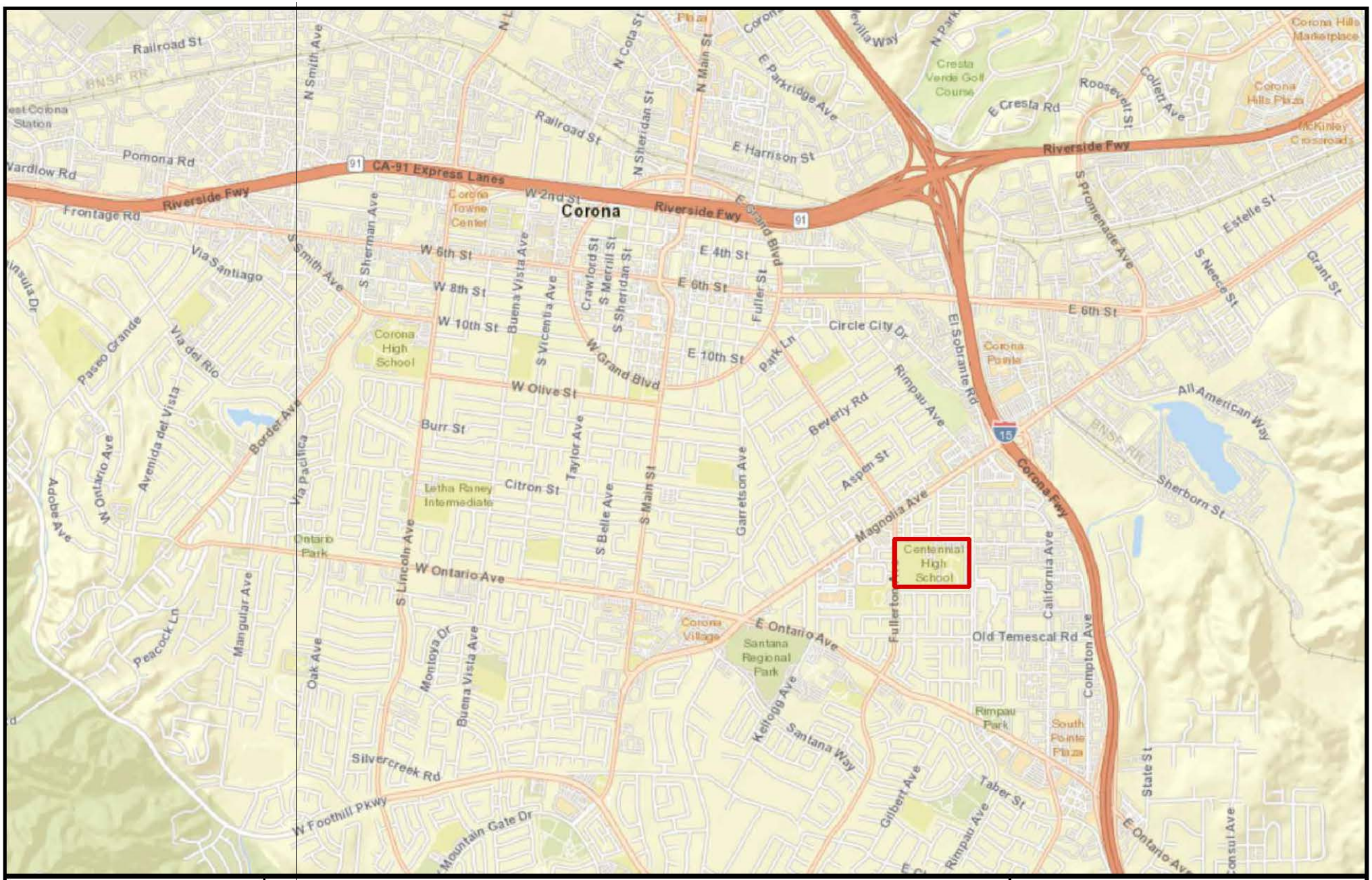


EEC ENVIRONMENTAL

LEGEND

Approximate Subject Property Boundary

0 1 2 MILES

APPROXIMATE SCALE

Map Source: ESRI Basemaps

# SITE VICINITY MAP

Centennial High School Aquatic Center
1820 Rimpau Avenue
Corona, California

| Date | Drafter |
|---|---|
| August 31, 2022 | AC |

| PE/PG | Project Number | Figure |
|---|---|---|
| TB | S-3757.01T | 1B |
| Project Manager | File | |
| LH | Figure1&2_forPhase1s | |

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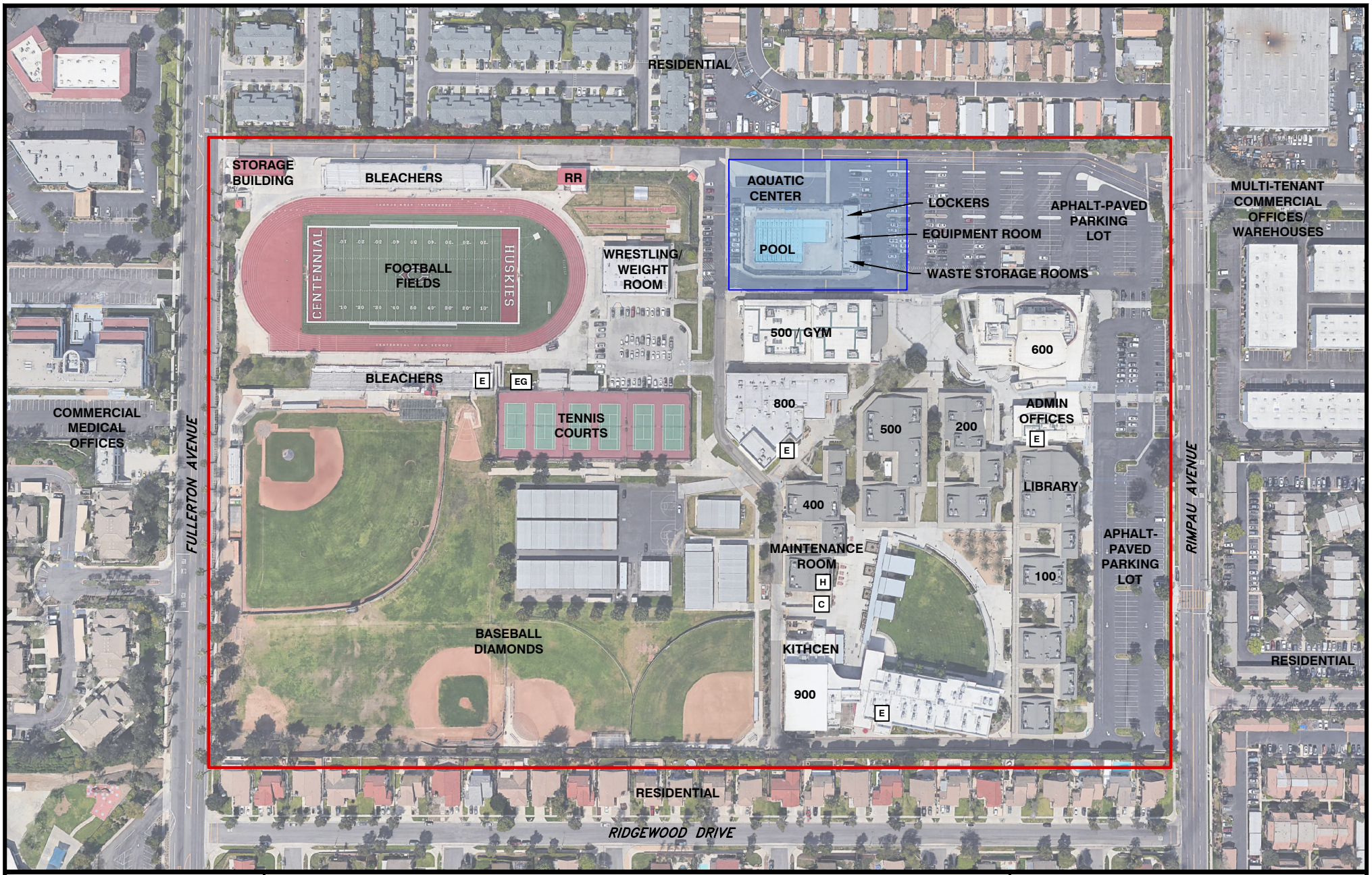


EEC ENVIRONMENTAL

| Date | Drafter |
|---|---|
| August 31, 2022 | AC |

LEGEND

- Approximate Subject Property Boundary
- Proposed Project Area
- E — Elevator
- EG — Diesel Fueled Emergency Generator
- C — Clarifier
- H — In-Ground Hydraulic Lift

NOTES:
RR = Restrooms
Map Source: Google Earth

0 225' 450'
APPROXIMATE SCALE

# SITE VICINITY MAP

Centennial High School Aquatic Center
1820 Rimpau Avenue
Corona, California

| PE/PG | Project Number | Figure |
|---|---|---|
| TB | S-3757.01T | 2 |
| Project Manager | File | |
| LH | Figure1&2_forPhase1s | |

# PHOTOGRAPHS



*Photo 1 – View of the Subject Property's northern asphalt-paved parking lot followed by the Aquatic Center.*



*Photo 2 – View of the Aquatic Center looking south followed by the gym (Building 500).*



*Photo 3 - View of the Aquatic Center looking west.*



*Photo 4 - View of the Aquatic Center looking east.*



*Photo 5 - View of the Aquatic Center looking south.*




*Photo 6 – Interior view of the storage container located on the northwestern portion of the Aquatic Center.*



*Photo 7 – View of the shower located on the northeastern corner of the Aquatic Center.*

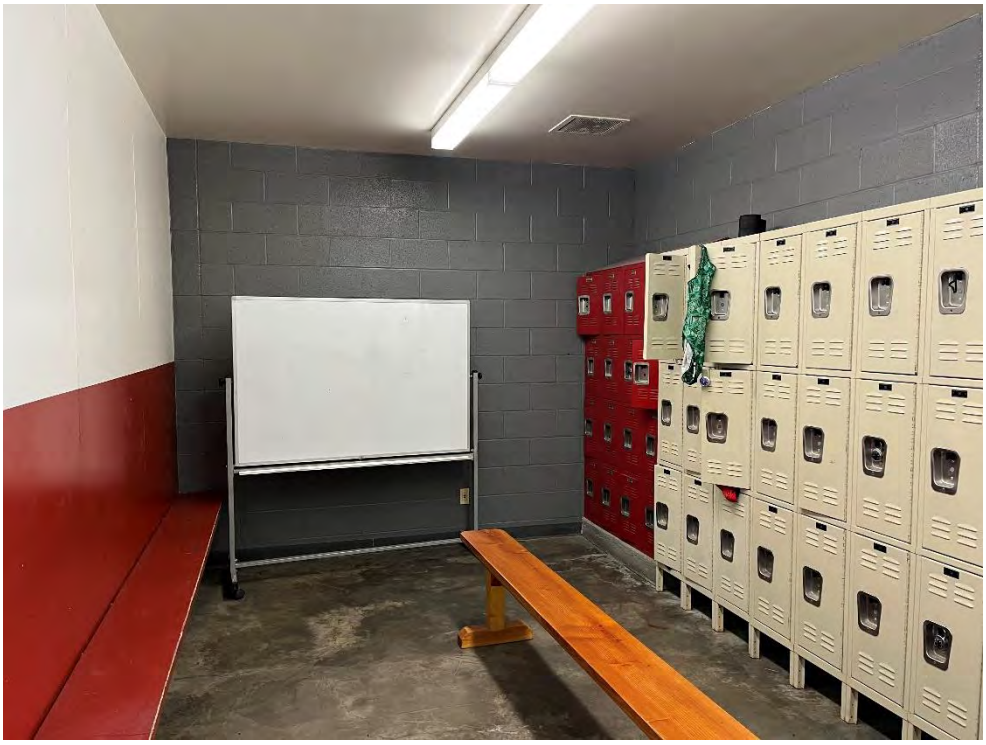

*Photo 8 – Typical view of the lockers located within the Aquatic Center building.*



*Photo 9 - Typical view of the restrooms located within the Aquatic Center building.*



*Photo 10 – View of the concession/snack area located on the eastern portion of the Aquatic Center Building.*




*Photo 11 – View of the janitorial closet located within the Aquatic Center building.*



*Photo 12 – View of the mechanical room and filtration system located within the southern portion of the Aquatic Center building.*




*Photo 13 – Continued view of the filtration system.*



*Photo 14 – Continued view of the mechanical room.*




*Photo 15 – View of the natural gas fueled pool heater located within the mechanical room.*

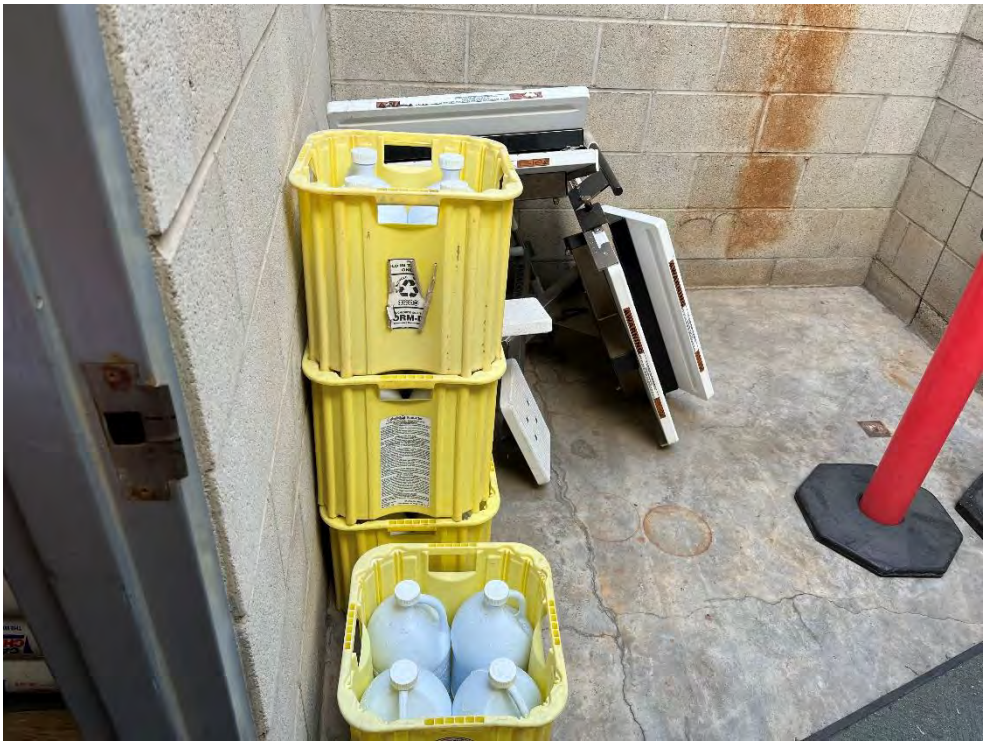

*Photo 16 – View of the one-gallon chlorine container storage located in the open-air storage area to the adjacent south of the maintenance room.*



*Photo 17 – View of the carbon dioxide cylinder and muriatic acid container storage room located in the southern portion of the Aquatic Center building.*




*Photo 18 – View of the Sodium Hypochlorite aboveground storage tank storage room, located in the southeastern corner of the Aquatic Center building.*



*Photo 19 – Typical view of the hallways and lockers located throughout the Subject Property.*



*Photo 20 - Typical view of the classrooms located throughout the Subject Property.*



*Photo 21 – View of the janitorial carts located throughout the Subject Property.*




*Photo 22 – View of the science material storage room located on the second floor of the 800 Building.*




*Photo 23 – View of the flammable and acid material storage containers, located within the science storage room.*



*Photo 24 – View of the five-gallon shark and clam part containers for science use located within the science storage room.*




*Photo 25 – View of the small quantity chemical storage located within the science storage room.*



*Photo 26 – Typical elevator equipment rooms located throughout the Subject Property.*



*Photo 27 – Typical view of the five-gallon hydraulic oil containers located within the elevator rooms.*



*Photo 28 – View of the two air compressors located within the mechanical room within the 800 Building.*




*Photo 29 – View of the wight room located adjacent to the football field.*



*Photo 30 – View of the football field located on the northwestern portion of the Subject Property.*

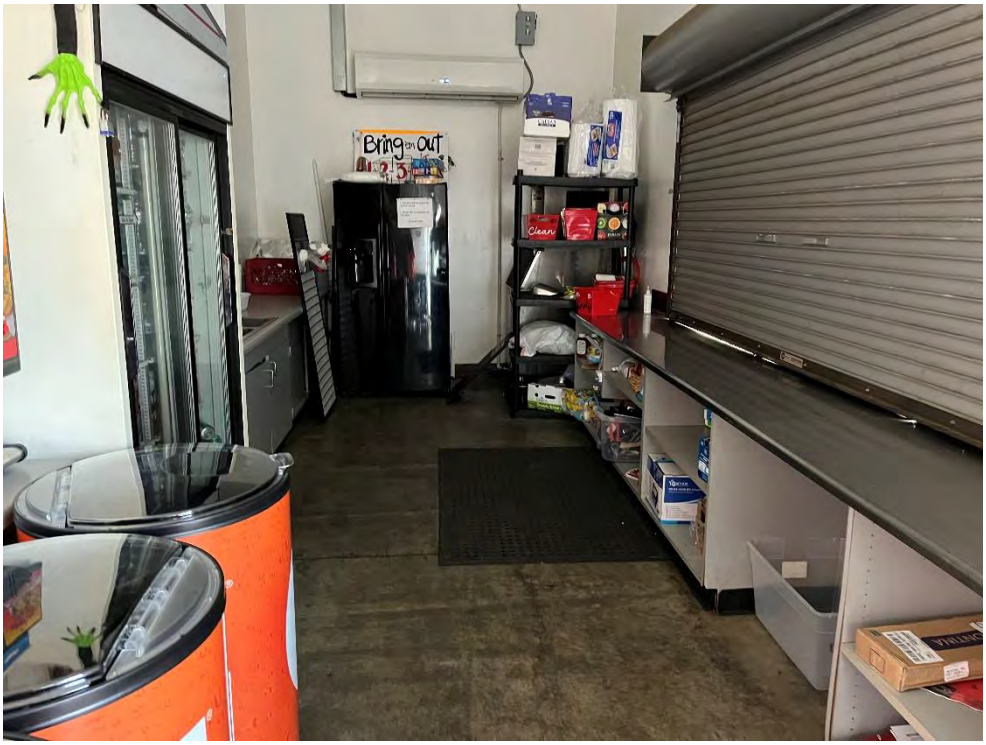


*Photo 31 – View of the concessions stand located adjacent to the football field.*



*Photo 32 – View of the field equipment storage building, located to the northwest of the football field.*

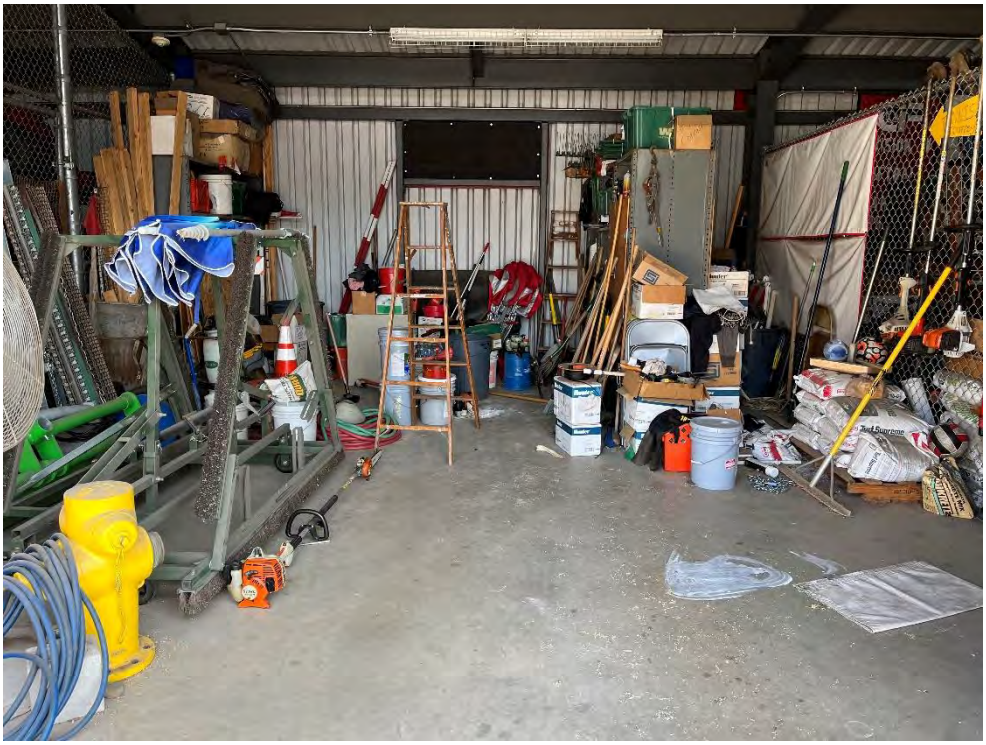

*Photo 33 – Interior view of the field equipment storage building.*




*Photo 34 – Typical view of the five-gallon marking paint and paint remover solution for synthetic turf containers located within the field equipment storage building.*



*Photo 35– View of the green turf paint containers located within the field equipment storage building.*



*Photo 36 – View of the diesel fueled emergency generator located adjacent to the football field and tennis courts on the western portion of the Subject Property.*



*Photo 37 – View of the tennis courts located on the central portion of the Subject Property.*



*Photo 38– View of the portable classrooms located on the central portion of the Subject Property.*




*Photo 39 – View of Building 400 identified as the "industrial" classroom building and the associated air vent system equipment.*



*Photo 40 – View of the air compressor associated with Building 400.*

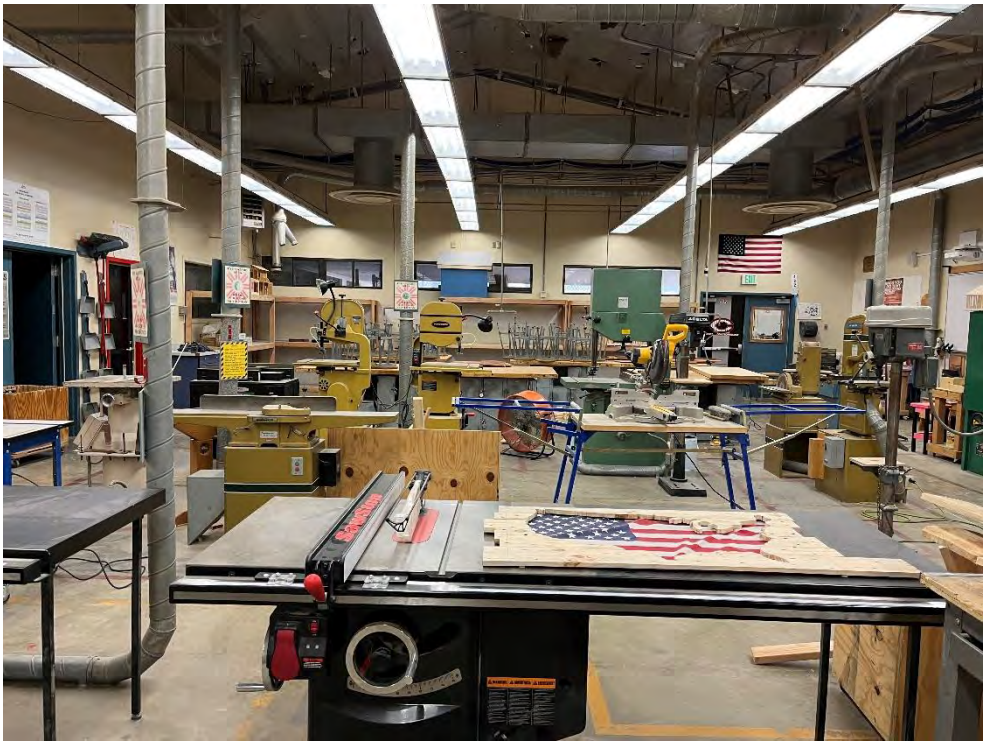

*Photo 41 – View of the wood shop classroom, located within Building 400.*



*Photo 42 – View of the five-gallon used oily rag containers located within the wood shop classroom.*




*Photo 43 – View of the small-quantity varnish and paint container storage located within the wood shop classroom.*



*Photo 44 – View of the cafeteria kitchen located within Building 900.*



*Photo 45 – View of the grease trap associated with the Kitchen.*




*Photo 46 – View of the solid waste dumpsters locate adjacent to the grease trap.*



*Photo 47 – View of the former auto shop classroom and current maintenance yard and building located adjacent and within Building 400.*




*Photo 48 – Typical view of the five-gallon and one-gallon paint containers located throughout the maintenance area.*



*Photo 49 – View of the empty clarifier located within the maintenance yard.*

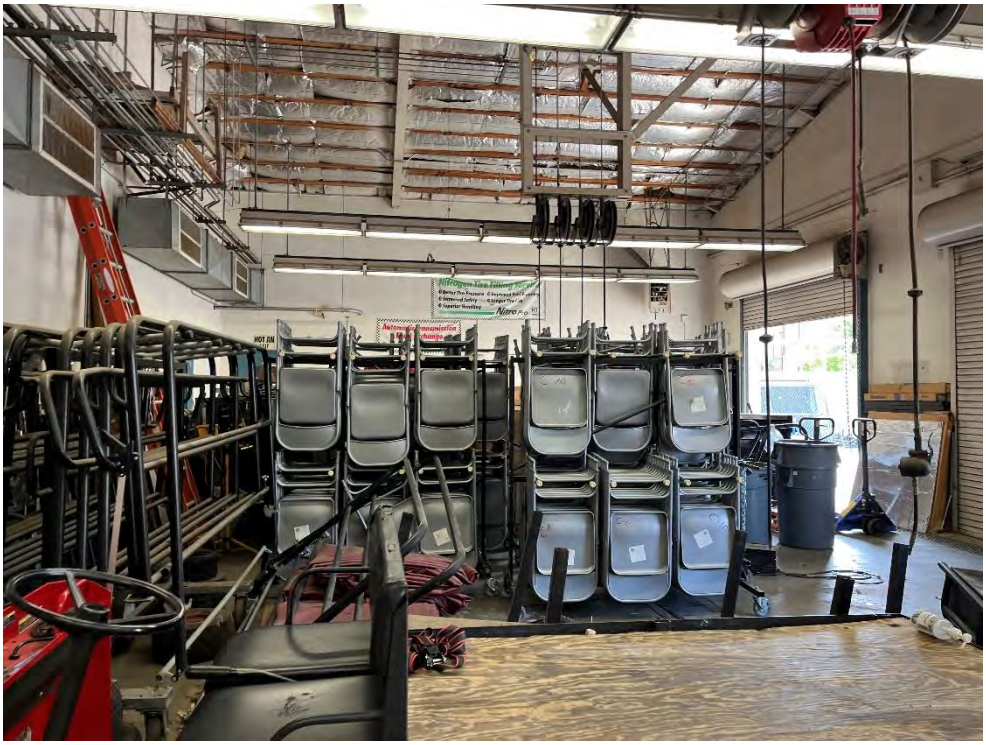

*Photo 50 – Typical vie of the interior of the maintenance yard.*

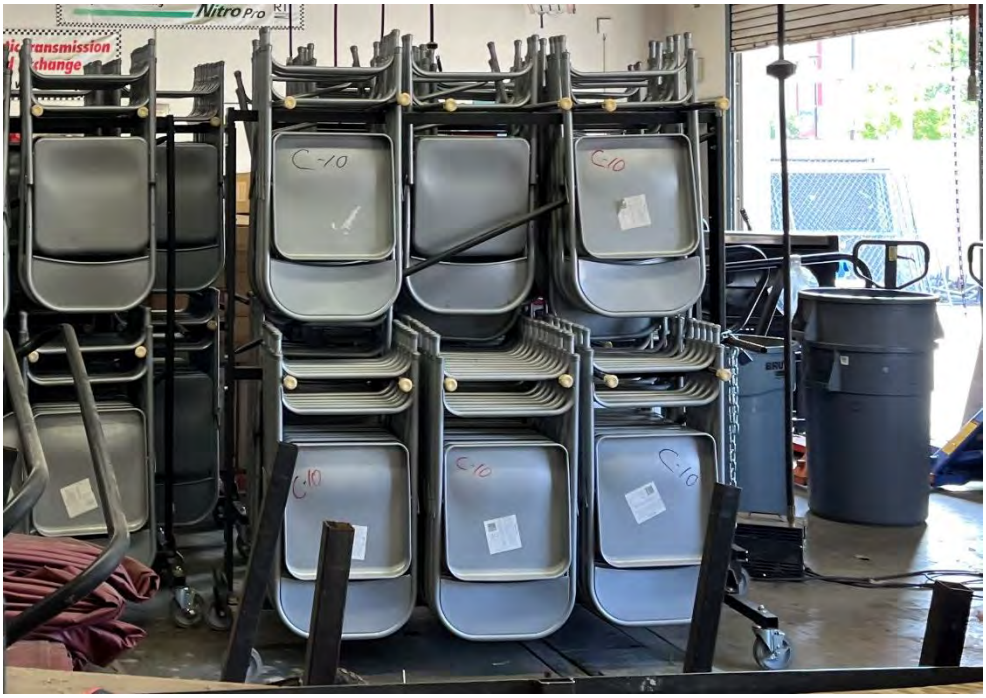

*Photo 51 – View of the former in-ground hydraulic lift located beneath the folding chair storage.*



*Photo 52 – View of the theater located within Building 600.*



*Photo 53 – View of the administrative building located within Building 100.*



*Photo 54 – View of the electrical equipment compound located within the asphalt-paved parking lot on the northern portion of the Subject Property.*



*Photo 55 – View of the electrical equipment located within the electrical equipment compound.*



*Photo 56 – View of the five-gallon paint containers located within the electrical equipment compound.*



*Photo 57 – View of the not in use air filtration/dust collection system associated with the former location of the wood shop classroom, located adjacent to Building 600.*




*Photo 58 – View of the former wood shop location, currently utilized as a janitorial and general storage room.*



*Photo 59 – View of the asphalt-paved parking lot located on the eastern portion of the Subject Property.*




*Photo 60 – Typical exterior view of the classrooms located within Building 100.*



*Photo 61 – View of the landscaped area followed by Building 900 located on the southern portion of the Subject Property.*




*Photo 62 – Typical exterior view of the classrooms located within Building 200.*



*Photo 63 – View of the ceramics rooms located within Building 300.*



*Photo 64 – Exterior View of Buildings 800 and 400.*



*Photo 65 – View of the northern-adjoining residences.*



*Photo 66 – View of the western-adjoining medical offices (1810 Fullerton Avenue).*



*Photo 67 – View of the western-adjoining medical offices (1820 Fullerton Avenue).*



*Photo 68 – View of the southern-adjoining single-family residences.*




*Photo 69 – View of the eastern-adjoining Hensley at Corona Pointe Apartments (1171 Baywood Drive).*




*Photo 70 – View of the eastern-adjoining multi-tenant commercial buildings (1701 and 1709 Rimpau Avenue).*

# APPENDIX A
# EEC STANDARD LIMITATIONS

**STANDARD LIMITATIONS**

The conclusions and recommendations contained in this report/assessment are based upon professional opinions with regard to the subject matter. These opinions have been arrived at in accordance with currently accepted hydrogeologic and engineering standards and practices applicable to this location and are subject to the following inherent limitations:

1. EEC derived the data in this report primarily from visual inspections, examination of records in the public domain, and interviews with individuals having information about the site. The passage of time, manifestation of latent conditions, or occurrence of future events may require further exploration at the site, analysis of the data, and reevaluation of the findings, observations, and conclusions in the report.

2. The data reported and the findings, observations, and conclusions expressed in the report are limited by the scope of the work. The scope of the work was defined by the request of the client, the time and budgetary constraints imposed by the client, and availability of access to the site.

3. Because of the limitations stated above, the findings, observations, and conclusions expressed by EEC in this report are not, nor should not be, considered an opinion concerning the compliance of any past or present owner or operator of the site with any federal, state, or local law or regulation.

4. EEC's Phase I reports present professional opinions and findings of a scientific and technical nature. While attempts were made to relate the data and findings to applicable environmental laws and regulations, the report shall not be construed to offer legal opinion or representations as to the requirements of, nor compliance with, environmental laws, rules, regulations, or policies of federal, state, or local government agencies. Any use of the Phase I report constitutes acceptance of the limits of EEC's liability. EEC's liability extends only to its client and not to any other parties who may obtain the Phase I report. Issues raised by the report should be reviewed by appropriate legal counsel.

5. The conclusions presented in this report are professional opinions based on data described in this report. They are intended only for the purpose, site location, and project indicated. This report is not a definitive study of contamination at the site and should not be interpreted as such. An evaluation of subsurface soil and ground water conditions was not performed as part of this investigation. No sampling or chemical analyses were performed or assessment of asbestos-containing materials was completed as part of this study unless explicitly stated.

6. This report is based, in part, on unverified information supplied to EEC by third-party sources. While efforts have been made to substantiate this third-party information, EEC cannot guarantee its completeness or accuracy.

# APPENDIX B
# USER PROVIDED INFORMATION

EEC ENVIRONMENTAL

**Corporate Office**
Tel: (714) 667-2300
Fax: (714) 667-2310
One City Boulevard West, Suite 1800
Orange, California 92868
www.eecenvironmental.com

# USER QUESTIONNAIRE

## Phase I Environmental Site Assessment (ESA)

In order to qualify for one of the *Landowner Liability Protections (LLPs)* offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001, the *User* must conduct the following inquiries required by 40 CFR 312.25, 312.28, 312.29, 312.20, and 312.31. The User should provide the following information to the *environmental professional*. Failure to conduct these inquiries could result in a determination that "*all appropriate inquiries*" is not complete.

1. **Environmental liens that are filed or recorded against the *property* (40 CFR 312.25).**
   Did a search of *recorded land title records* (or judicial records where appropriate*) identify any environmental liens filed or recorded against the *property* under federal, tribal, state, or local law?

   YES ☐ NO ☒
   If you checked yes, please describe here:

2. **Activity and land use limitations that are in place on the property or that have been filed or recorded against the property (40 CFR 312.26[a][1][v] and [vi]).**
   Did a search of *recorded land title records* (or judicial records where appropriate*) identify any activity and use limitations (AULs), such as *engineering controls,* land use restrictions, or *institutional controls* that are in place at the *property* and/or have been filed or recorded against the *property* under federal, tribal, state, or local law?

   YES ☐ NO ☒
   If you checked yes, please describe here:

3. **Specialized knowledge or experience of the person seeking to qualify for the LLP (40 CFR 312.28).**
   Do you have any specialized knowledge or experience related to the *property* or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the *property* or *adjoining property* so that you would have specialized knowledge of the processes used by this type of business?

   YES ☐ NO ☒
   If you checked yes, please describe here: The property in question has been owned by CNUSD for many years, there is an elementary school very close to this property which is also owned by CNUSD.

Notes: *In certain jurisdictions, federal, tribal, state, or local statutes, or regulations specify that environmental liens and AULs be filed in judicial records rather than in land title records. In such cases judicial records must be searched for environmental liens and AULs.
The questions provided in this questionnaire were obtained from the American Society for Testing and Materials (ASTM) Standard E1527-13.
Text in *italics* are as defined in the ASTM Standard E1527-13.

4. **Relationship of the purchase price to the fair market value of the *property* if it were not contaminated (40 CFR 312.29).**
Does the purchase price being paid for this *property* reasonably reflect the fair market value of the *property*? If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the *property*?

YES [X] NO [ ]
If you checked no, please describe here:

CNUSD already owns this property, we are not buying any new property, we are just replacing an existing pool and pool building on the property.

5. **Commonly known or *reasonably ascertainable* information about the *property* (40 CFR 312.30).**
Are you aware of commonly known or *reasonably ascertainable* information about the *property* that would help the *environmental professional* to identify conditions indicative of releases or threatened releases? YES [ ] NO [ ]
For example:
   a. Do you know the past uses of the *property*?
   YES [X] NO [ ]
   b. Do you know of specific chemicals that are present or once were present at the *property*?
   YES [X] NO [ ]
   c. Do you know of any spills or other chemical releases that have taken place at the *property*?
   YES [ ] NO [X]
   d. Do you know of any environmental cleanups that have taken place at the *property*?
   YES [ ] NO [X]

If you checked yes on any of the questions related to #5, please describe here:

Past use of the site was for agricultural use. Chemical present at the property are related to the science classrooms onsite.

6. **The degree of obviousness of the presence or likely presence of contamination at the *property*, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31).**
Based on your knowledge and experience related to the *property* are there any *obvious* indicators that point to the presence or likely presence of releases at the *property*?

No.

Responses Provided By: Jacquelyn Roberts

Company / Title: Corona-Norco Unified School District - Construction Director I, Facilities

Date: 8/29/22

Notes: *In certain jurisdictions, federal, tribal, state, or local statutes, or regulations specify that environmental liens and AULs be filed in judicial records rather than in land title records. In such cases judicial records must be searched for environmental liens and AULs.
The questions provided in this questionnaire were obtained from the American Society for Testing and Materials (ASTM) Standard E1527-13.
Text in *italics* are as defined in the ASTM Standard E1527-13.

# APPENDIX C
# AERIAL PHOTOGRAPHS

**Centennial High School**

1820 Rimpau Avenue

Corona, CA 92881

Inquiry Number: 7070636.11

July 29, 2022

# The EDR Aerial Photo Decade Package

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

# EDR Aerial Photo Decade Package

07/29/22

**Site Name:**

Centennial High School
1820 Rimpau Avenue
Corona, CA 92881
EDR Inquiry # 7070636.11

**Client Name:**

EEC
One City Boulevard West, Suite 1800
Orange, CA 92868
Contact: Laura Holder

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

***Search Results:***

| Year | Scale | Details | Source |
|---|---|---|---|
| 2016 | 1"=500' | Flight Year: 2016 | USDA/NAIP |
| 2012 | 1"=500' | Flight Year: 2012 | USDA/NAIP |
| 2009 | 1"=500' | Flight Year: 2009 | USDA/NAIP |
| 2006 | 1"=500' | Flight Year: 2006 | USDA/NAIP |
| 1990 | 1"=500' | Flight Date: August 29, 1990 | USDA |
| 1989 | 1"=500' | Flight Date: August 03, 1989 | USDA |
| 1985 | 1"=500' | Flight Date: September 13, 1985 | USDA |
| 1975 | 1"=500' | Flight Date: August 01, 1975 | USGS |
| 1967 | 1"=500' | Flight Date: May 15, 1967 | USDA |
| 1961 | 1"=500' | Flight Date: June 17, 1961 | USDA |
| 1959 | 1"=500' | Flight Date: October 16, 1959 | USDA |
| 1953 | 1"=500' | Flight Date: September 23, 1953 | USDA |
| 1948 | 1"=500' | Flight Date: July 10, 1948 | USGS |
| 1938 | 1"=500' | Flight Date: June 14, 1938 | USDA |
| 1931 | 1"=500' | Flight Date: September 18, 1931 | FAIR |

**When delivered electronically by EDR, the aerial photo images included with this report are for ONE TIME USE ONLY. Further reproduction of these aerial photo images is prohibited without permission from EDR. For more information contact your EDR Account Executive.**


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INQUIRY #: 7070636.11
YEAR: 2016
= 500'
N
EDR


INQUIRY #: 7070636.11
YEAR: 2012
= 500'
N
EDR

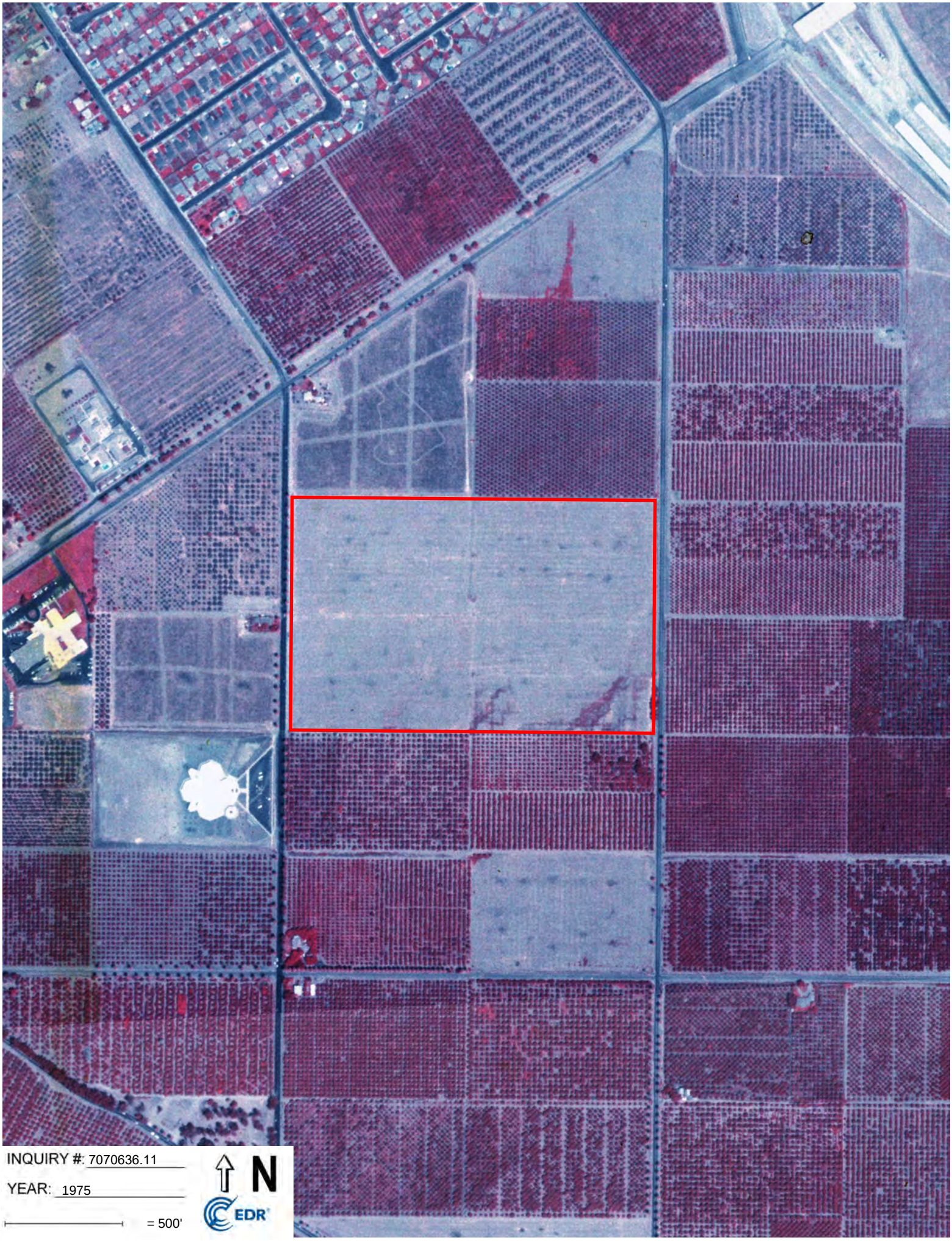

INQUIRY #: 7070636.11
YEAR: 2009
= 500'
N
EDR


INQUIRY #: 7070636.11
YEAR: 2006
= 500'
N
EDR

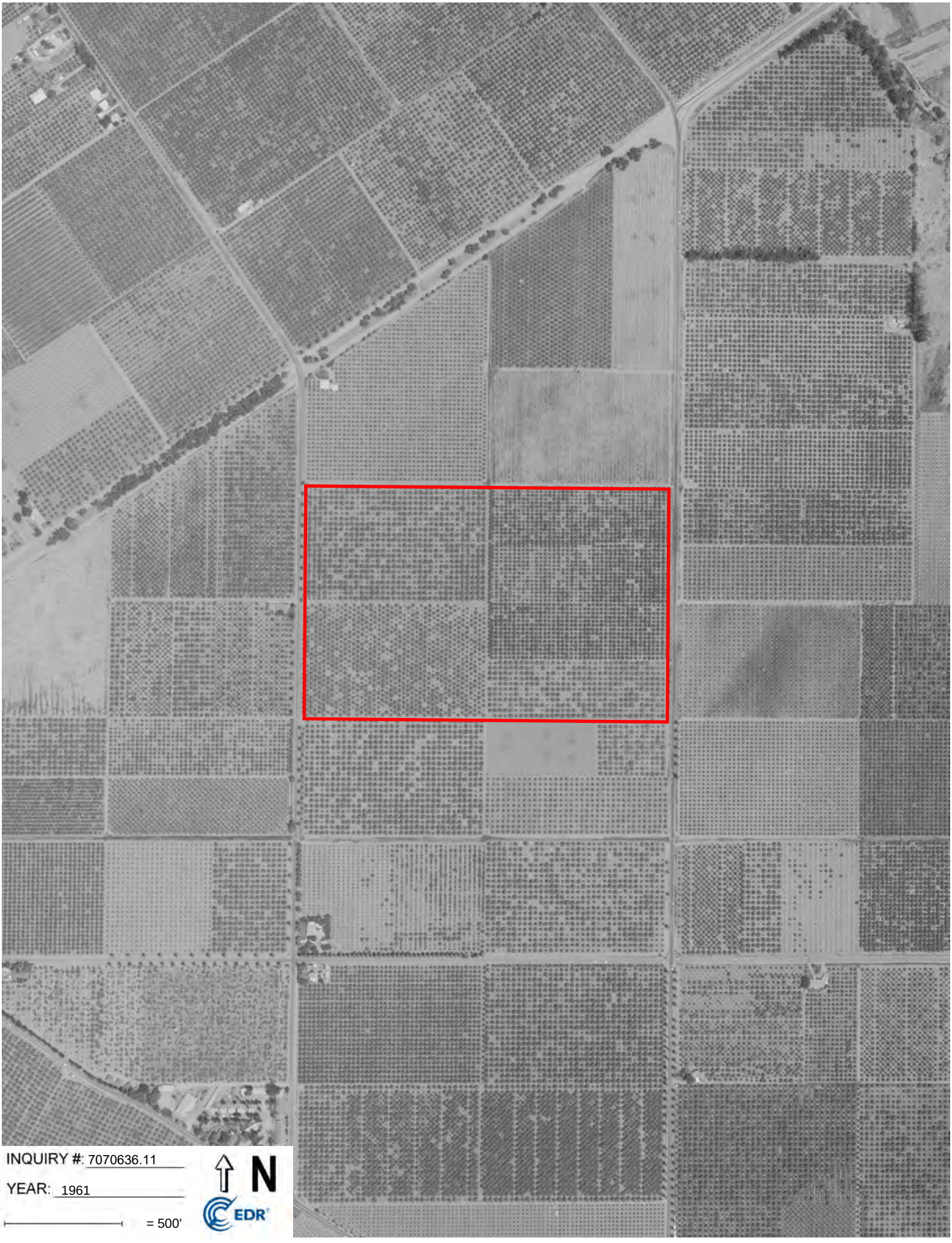

INQUIRY #: 7070636.11
YEAR: 1990
= 500'
N
EDR


INQUIRY #: 7070636.11
YEAR: 1989
= 500'
N
EDR


INQUIRY #: 7070636.11
YEAR: 1985
= 500'
N
EDR


INQUIRY #: 7070636.11
YEAR: 1975
= 500'
N
EDR


INQUIRY #: 7070636.11
YEAR: 1967
= 500'
N
EDR


INQUIRY #: 7070636.11
YEAR: 1961
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N
EDR



INQUIRY #: 7070636.11

YEAR: 1959

= 500'

N

EDR


INQUIRY #: 7070636.11
YEAR: 1953
= 500'
N
EDR


INQUIRY #: 7070636.11
YEAR: 1948
= 500'
N
EDR


INQUIRY #: 7070636.11
YEAR: 1938
= 500'
N
EDR


INQUIRY #: 7070636.11
YEAR: 1931
= 500'
N
EDR

# APPENDIX D
# HISTORICAL TOPOGRAPHIC MAPS

Centennial High School
1820 Rimpau Avenue
Corona, CA 92881

Inquiry Number: 7070636.4
July 29, 2022

# EDR Historical Topo Map Report

## with QuadMatch™

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

# EDR Historical Topo Map Report

07/29/22

**Site Name:**

Centennial High School
1820 Rimpau Avenue
Corona, CA 92881
EDR Inquiry # 7070636.4

**Client Name:**

EEC
One City Boulevard West, Suite 1800
Orange, CA 92868
Contact: Laura Holder

EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by EEC were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

***Search Results:***

**P.O.#** NA

**Project:** Centennial HS Phase I ESA

***Coordinates:***

| | |
|---|---|
| **Latitude:** | 33.85837 33° 51' 30" North |
| **Longitude:** | -117.547498 -117° 32' 51" West |
| **UTM Zone:** | Zone 11 North |
| **UTM X Meters:** | 449355.70 |
| **UTM Y Meters:** | 3746587.32 |
| **Elevation:** | 795.40' above sea level |

**Maps Provided:**

2018
2015
2012
1997
1988
1981, 1982
1974, 1975
1973
1967
1954
1947
1942
1902

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## *Topo Sheet Key*

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

### 2018 Source Sheets



Corona South
2018
7.5-minute, 24000



Corona North
2018
7.5-minute, 24000

### 2015 Source Sheets



Corona South
2015
7.5-minute, 24000



Corona North
2015
7.5-minute, 24000

### 2012 Source Sheets



Corona South
2012
7.5-minute, 24000



Corona North
2012
7.5-minute, 24000

### 1997 Source Sheets



Corona South
1997
7.5-minute, 24000
Aerial Photo Revised 1994

## *Topo Sheet Key*

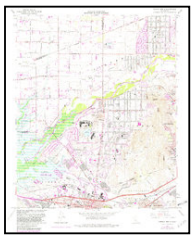
This EDR Topo Map Report is based upon the following USGS topographic map sheets.

### 1988 Source Sheets



Corona South
1988
7.5-minute, 24000
Aerial Photo Revised 1987

### 1981, 1982 Source Sheets

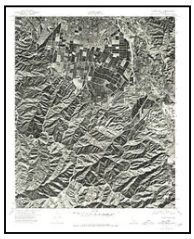


Corona North
1981
7.5-minute, 24000
Aerial Photo Revised 1978



Corona South
1982
7.5-minute, 24000
Aerial Photo Revised 1980

### 1974, 1975 Source Sheets



Corona South
1974
7.5-minute, 24000
Aerial Photo Revised 1974



Corona North
1975
7.5-minute, 24000
Aerial Photo Revised 1975

### 1973 Source Sheets



Corona South
1973
7.5-minute, 24000
Aerial Photo Revised 1973



Corona North
1973
7.5-minute, 24000
Aerial Photo Revised 1973

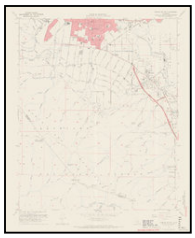
## *Topo Sheet Key*

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

### 1967 Source Sheets



Corona North
1967
7.5-minute, 24000
Aerial Photo Revised 1966



Corona South
1967
7.5-minute, 24000
Aerial Photo Revised 1966

### 1954 Source Sheets



Corona North
1954
7.5-minute, 24000
Aerial Photo Revised 1952



Corona South
1954
7.5-minute, 24000
Aerial Photo Revised 1952

### 1947 Source Sheets



CORONA
1947
15-minute, 50000

### 1942 Source Sheets



Corona and Vicinity
1942
7.5-minute, 31680

## *Topo Sheet Key*

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

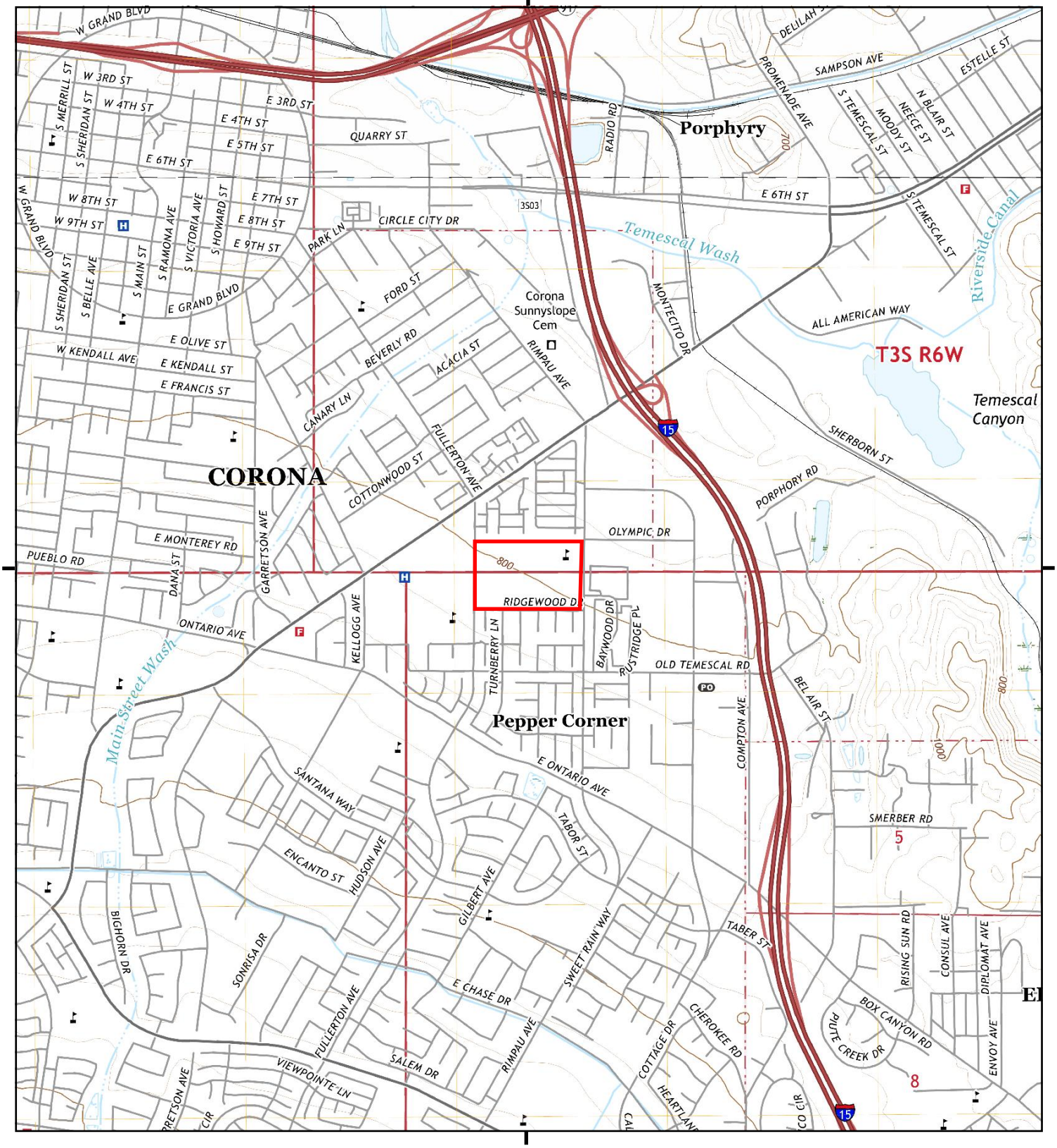
### 1902 Source Sheets



Corona
1902
30-minute, 125000

# Historical Topo Map

2018




This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

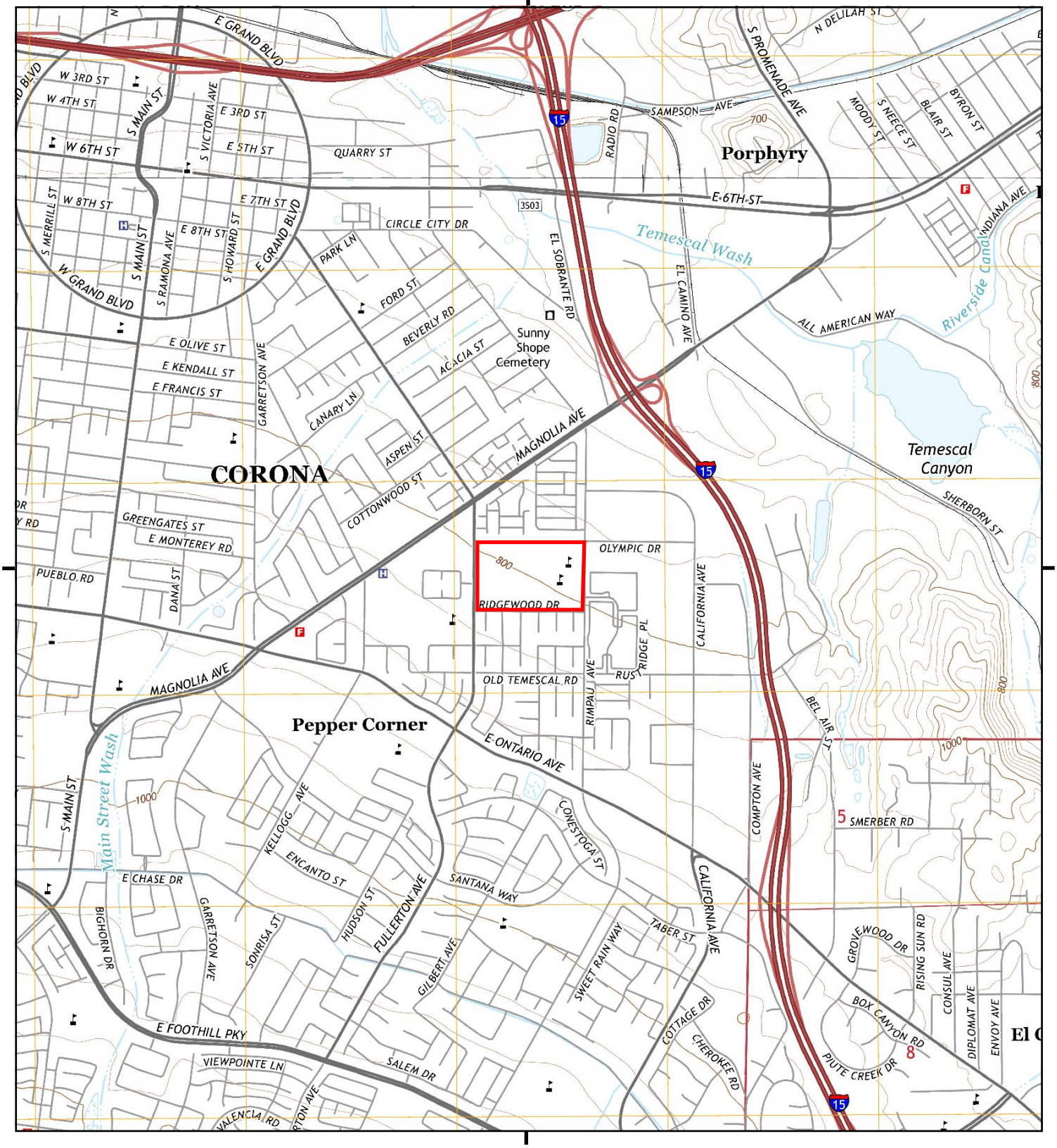
TP, Corona South, 2018, 7.5-minute
N, Corona North, 2018, 7.5-minute

SITE NAME: Centennial High School
ADDRESS: 1820 Rimpau Avenue
Corona, CA 92881
CLIENT: EEC

N

# Historical Topo Map

2015

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W E
SW S SE

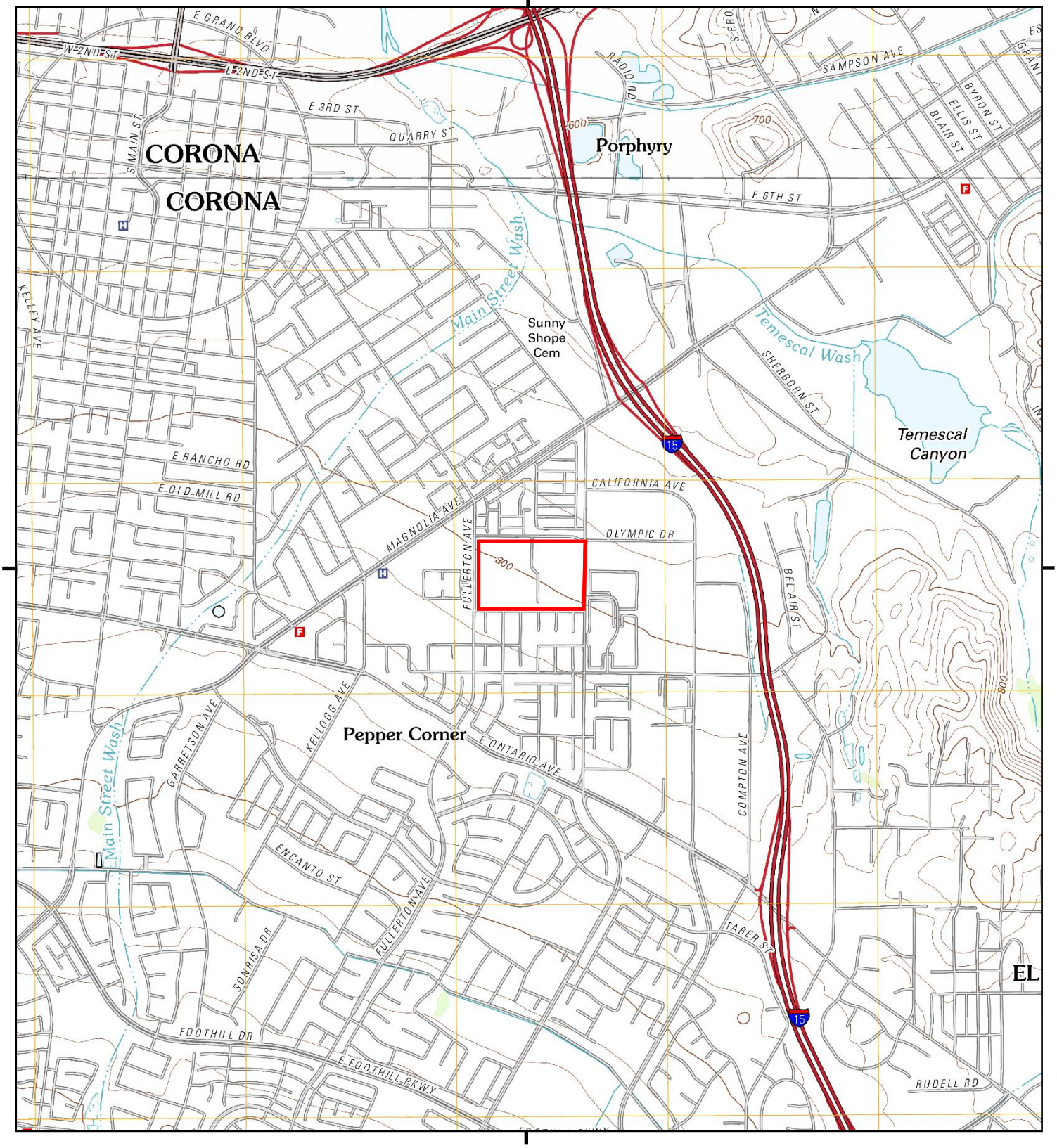
TP, Corona South, 2015, 7.5-minute
N, Corona North, 2015, 7.5-minute

SITE NAME: Centennial High School
ADDRESS: 1820 Rimpau Avenue
Corona, CA 92881
CLIENT: EEC

N

# Historical Topo Map

2012




This report includes information from the following map sheet(s).

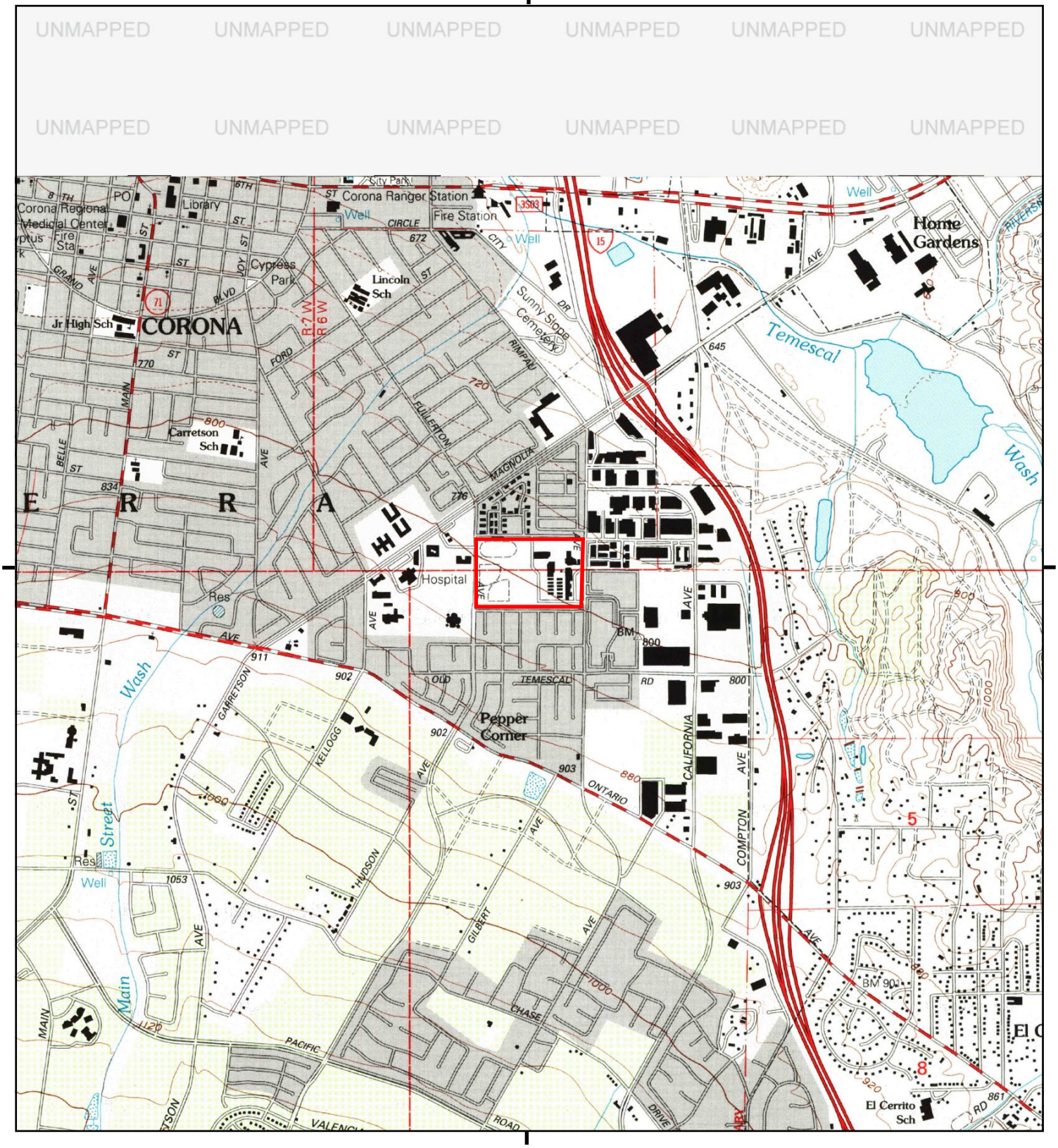
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Corona South, 2012, 7.5-minute
N, Corona North, 2012, 7.5-minute

SITE NAME: Centennial High School
ADDRESS: 1820 Rimpau Avenue
Corona, CA 92881
CLIENT: EEC

N




This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

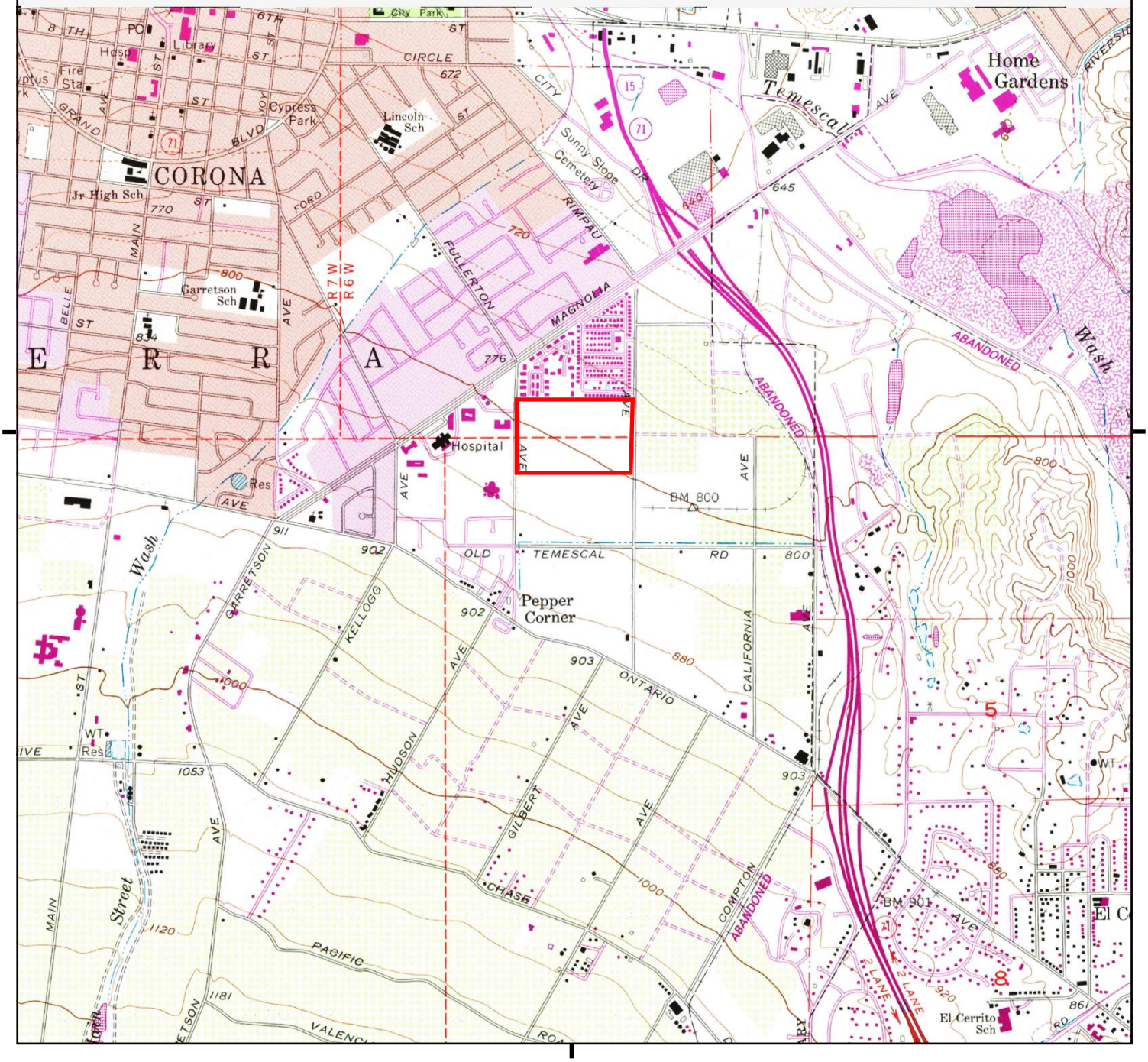
NW N NE
W E
SW S SE

TP, Corona South, 1997, 7.5-minute

SITE NAME: Centennial High School
ADDRESS: 1820 Rimpau Avenue
Corona, CA 92881
CLIENT: EEC

N

UNMAPPED UNMAPPED UNMAPPED UNMAPPED UNMAPPED UNMAPPED
UNMAPPED UNMAPPED UNMAPPED UNMAPPED UNMAPPED UNMAPPED




This report includes information from the following map sheet(s).

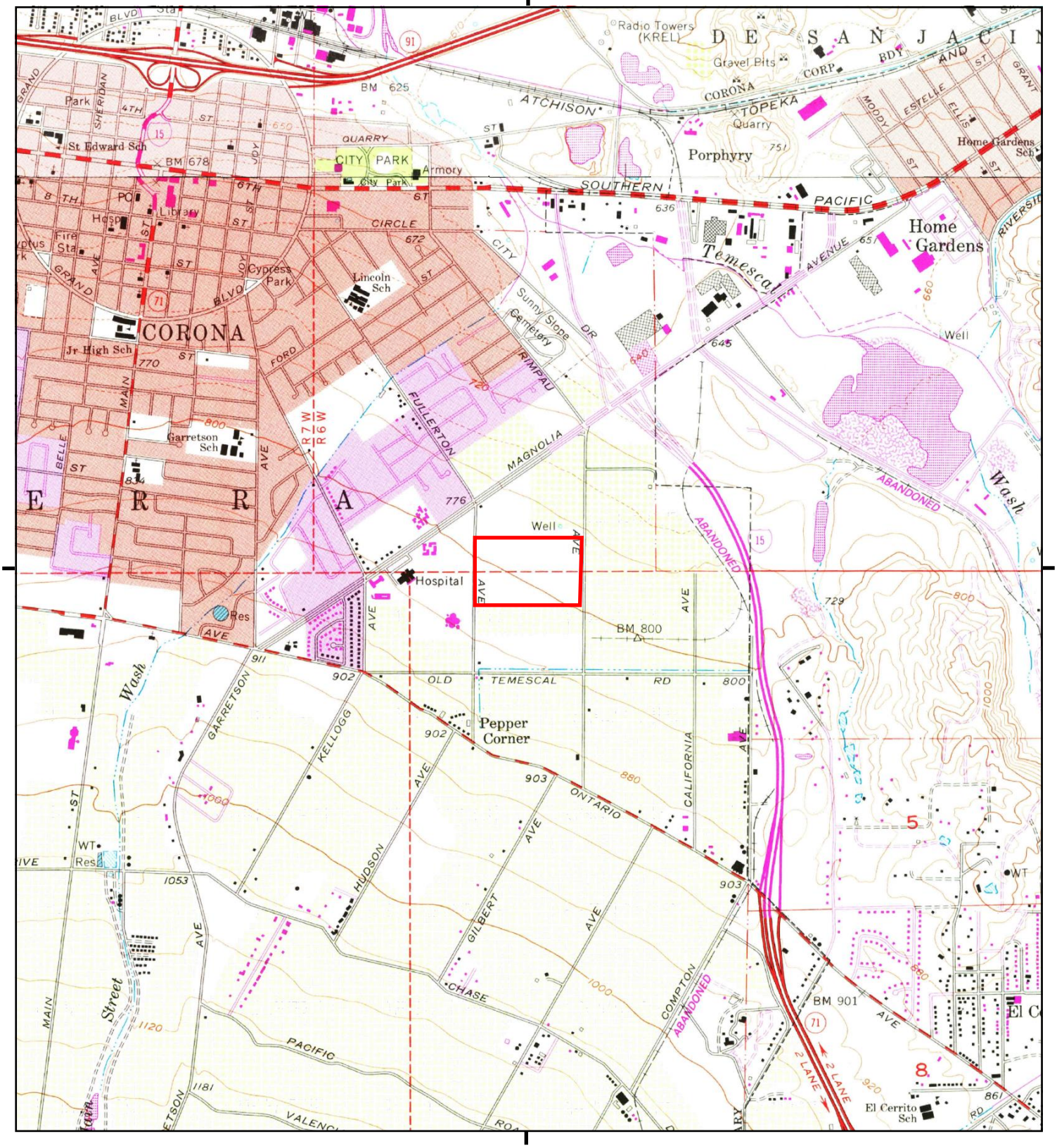
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Corona South, 1988, 7.5-minute

SITE NAME: Centennial High School
ADDRESS: 1820 Rimpau Avenue
Corona, CA 92881
CLIENT: EEC

N




This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Corona South, 1982, 7.5-minute
N, Corona North, 1981, 7.5-minute

SITE NAME: Centennial High School
ADDRESS: 1820 Rimpau Avenue
Corona, CA 92881
CLIENT: EEC

N

# Historical Topo Map

1974, 1975



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

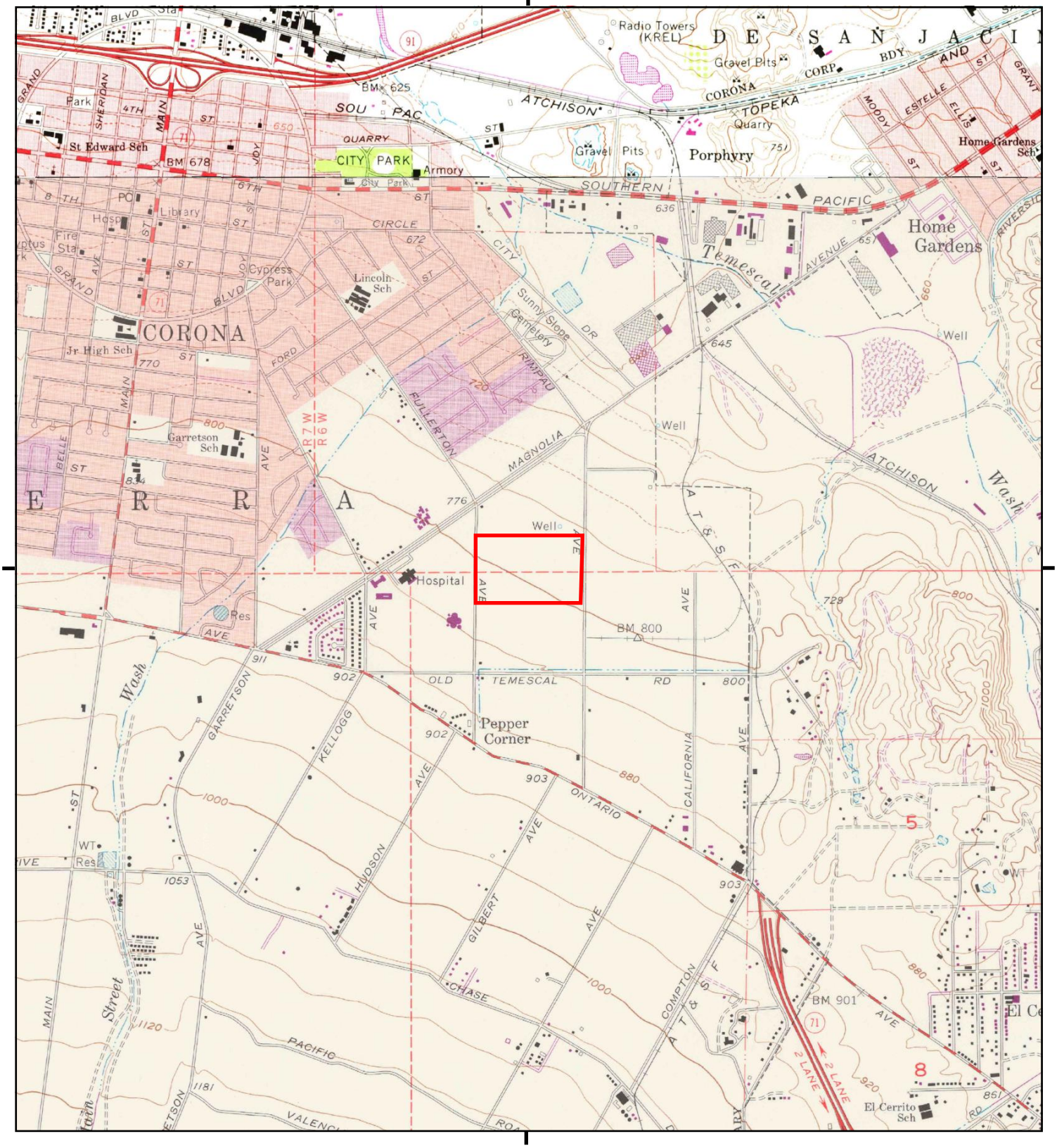
TP, Corona South, 1974, 7.5-minute
N, Corona North, 1975, 7.5-minute

SITE NAME: Centennial High School
ADDRESS: 1820 Rimpau Avenue
Corona, CA 92881
CLIENT: EEC

N

# Historical Topo Map

1973




This report includes information from the following map sheet(s).

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NW N NE
W E
SW S SE

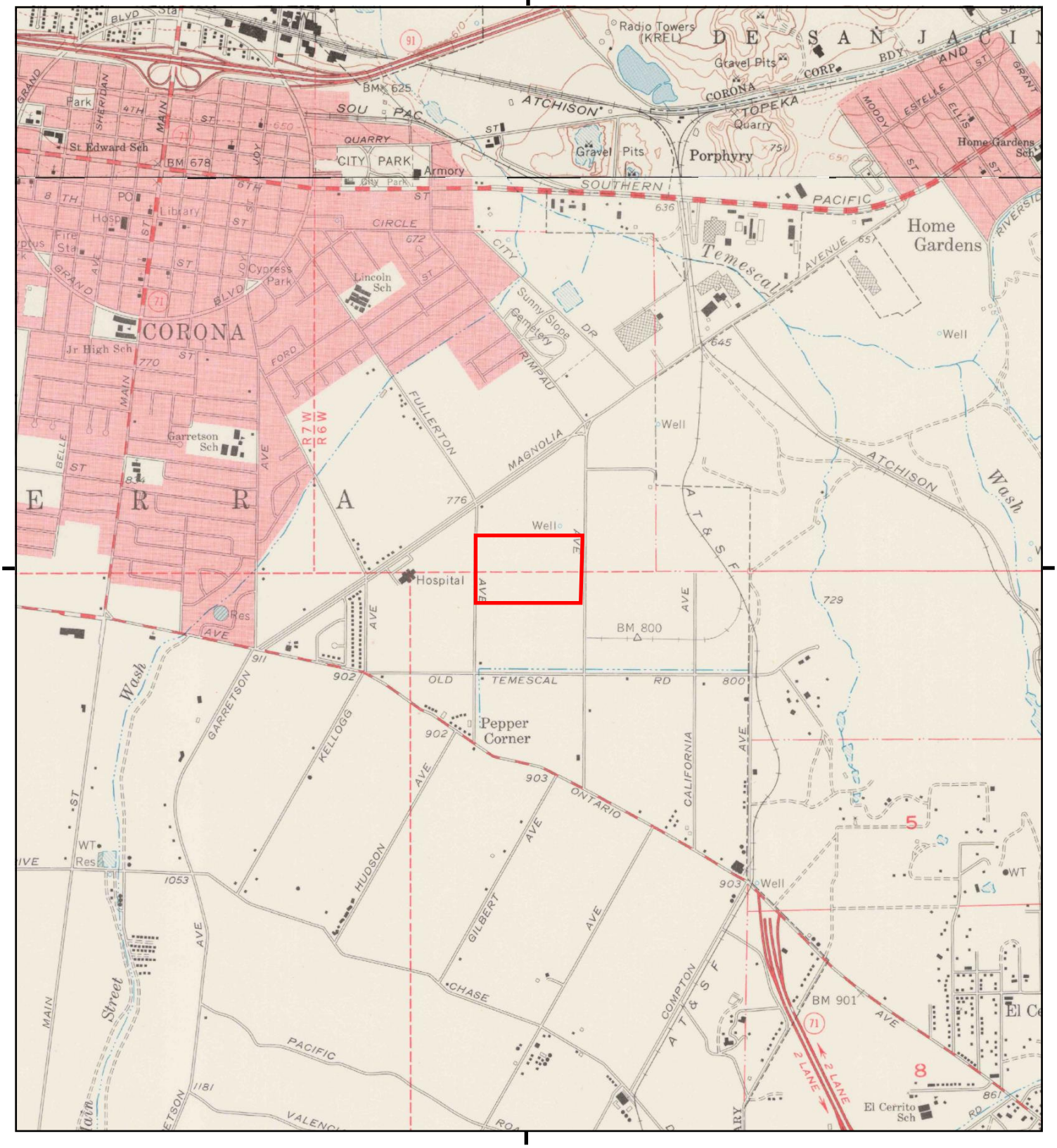
TP, Corona South, 1973, 7.5-minute
N, Corona North, 1973, 7.5-minute

SITE NAME: Centennial High School
ADDRESS: 1820 Rimpau Avenue
Corona, CA 92881
CLIENT: EEC

N

# Historical Topo Map

1967

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NW N NE
W E
SW S SE

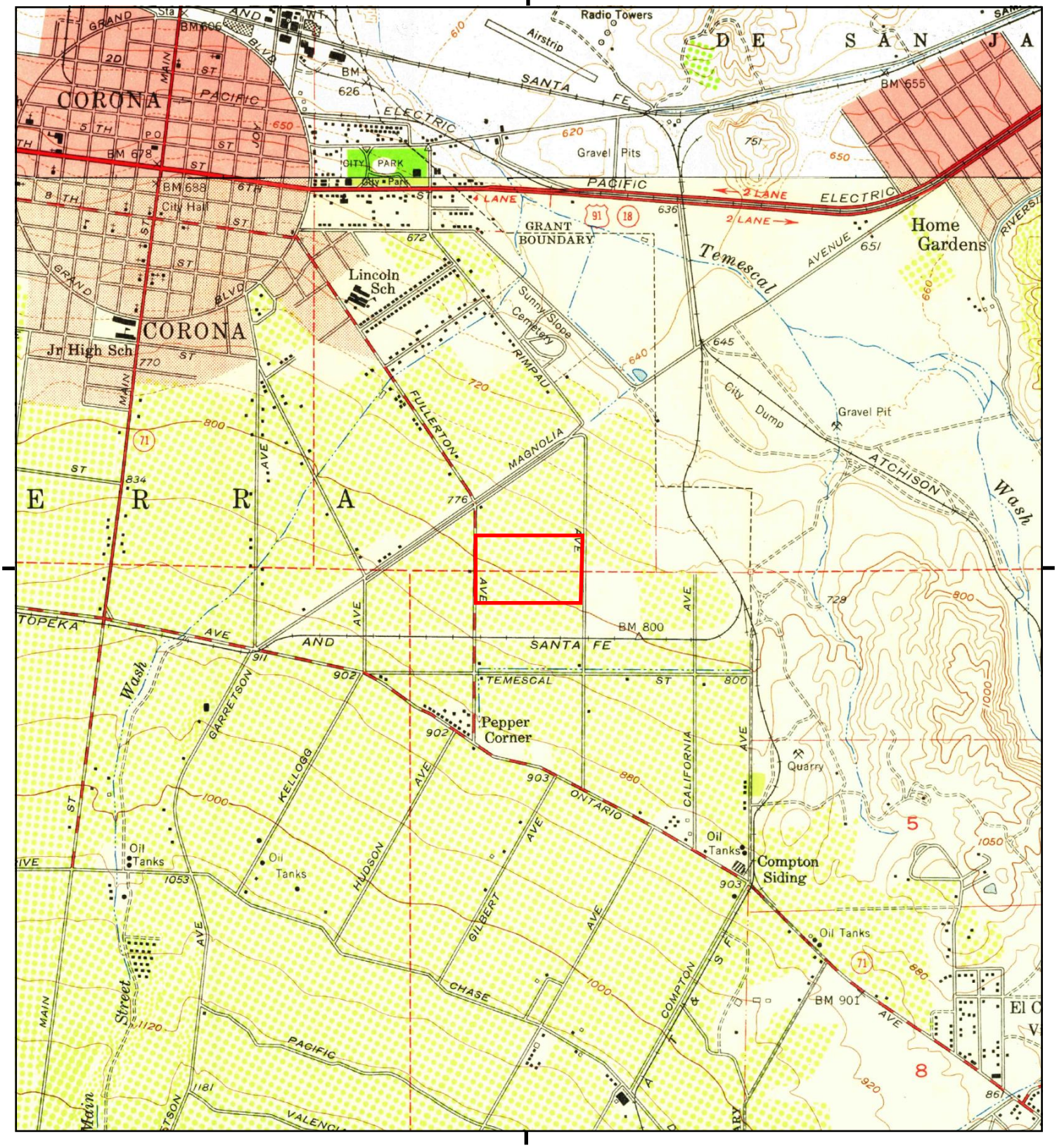
TP, Corona South, 1967, 7.5-minute
N, Corona North, 1967, 7.5-minute

SITE NAME: Centennial High School
ADDRESS: 1820 Rimpau Avenue
Corona, CA 92881
CLIENT: EEC

N

# Historical Topo Map

1954




This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

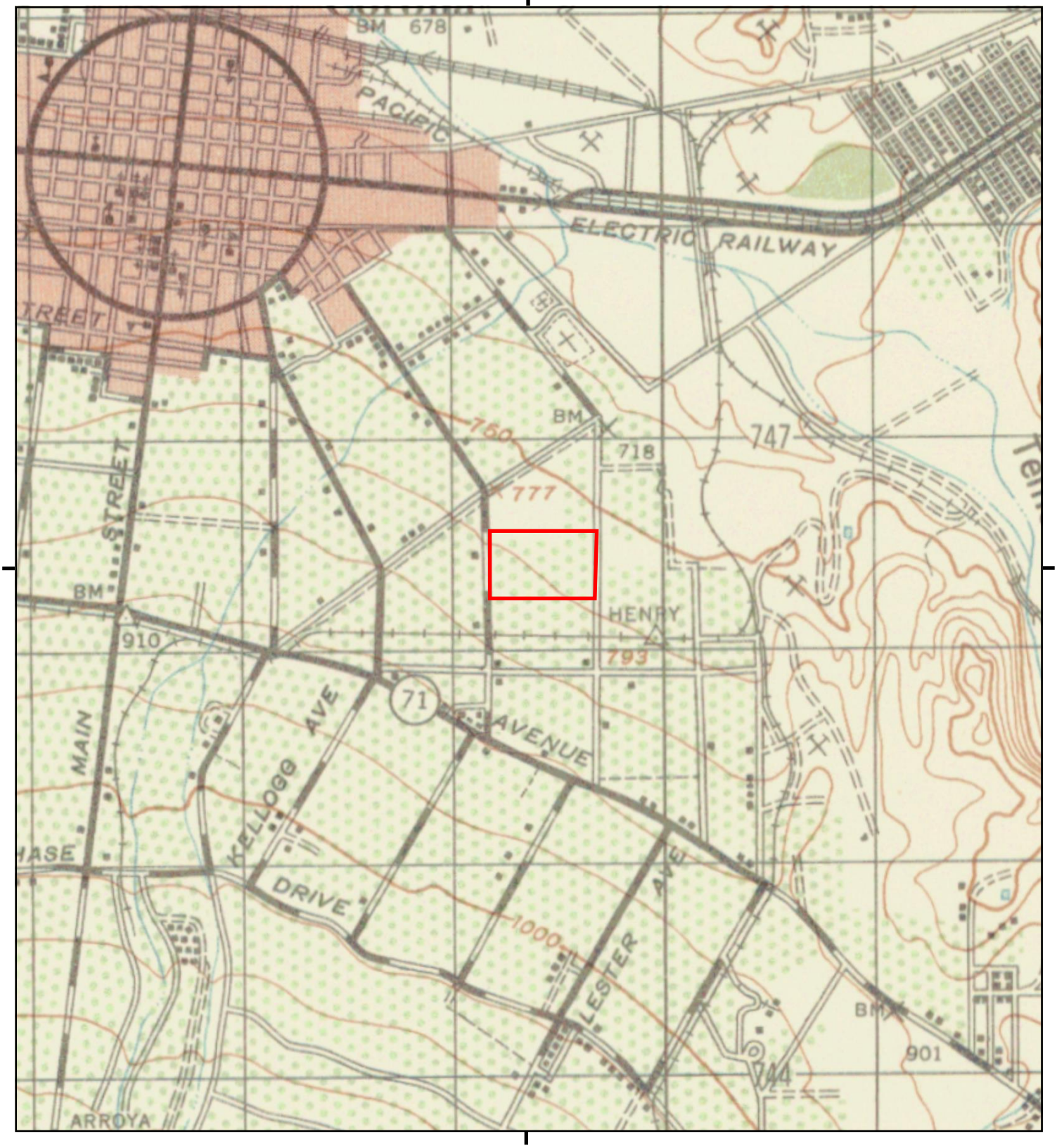
TP, Corona South, 1954, 7.5-minute
N, Corona North, 1954, 7.5-minute

SITE NAME: Centennial High School
ADDRESS: 1820 Rimpau Avenue
Corona, CA 92881
CLIENT: EEC

N

# Historical Topo Map

1947




This report includes information from the following map sheet(s).

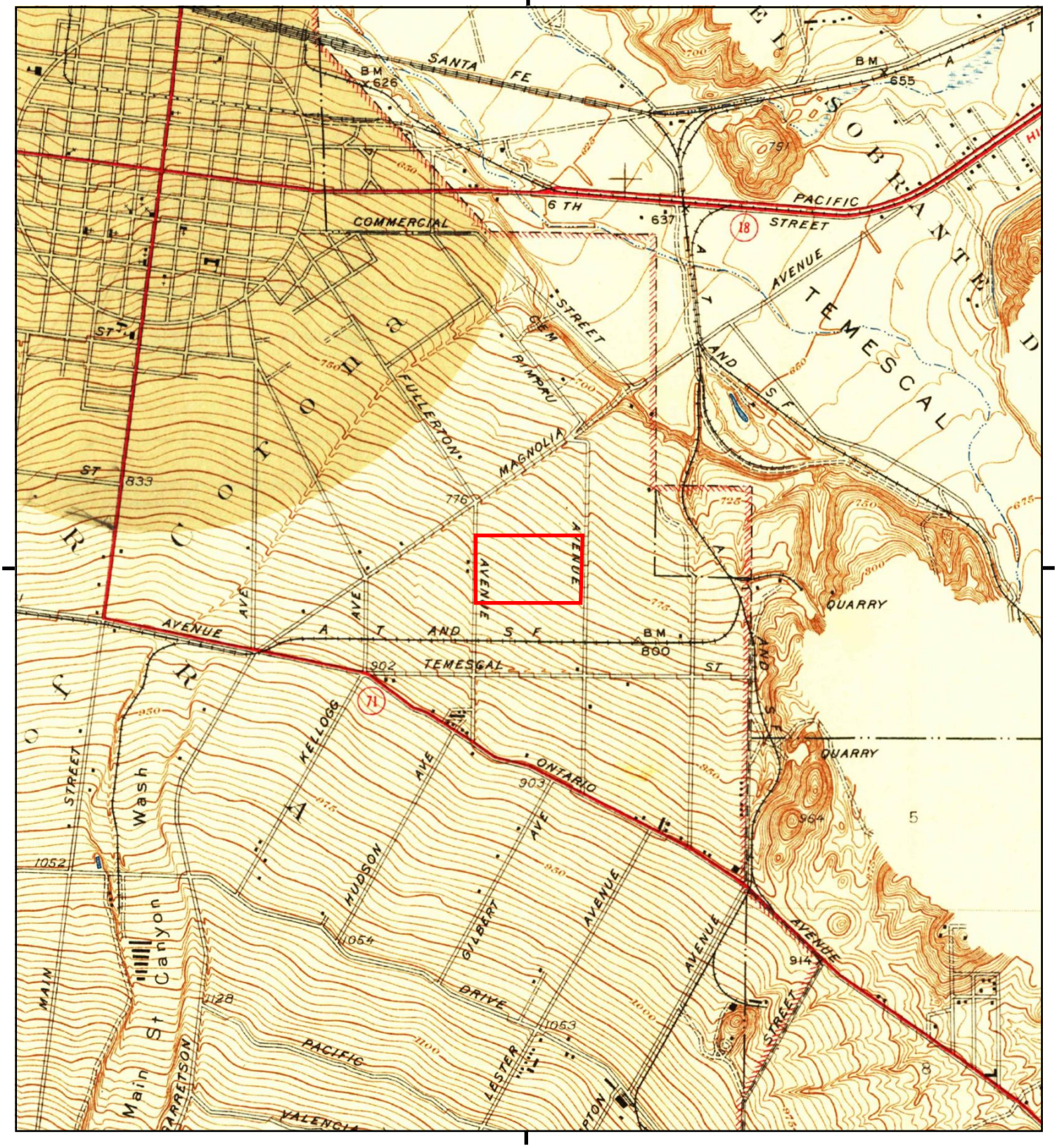
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, CORONA, 1947, 15-minute

SITE NAME: Centennial High School
ADDRESS: 1820 Rimpau Avenue
Corona, CA 92881
CLIENT: EEC

N




This report includes information from the following map sheet(s).

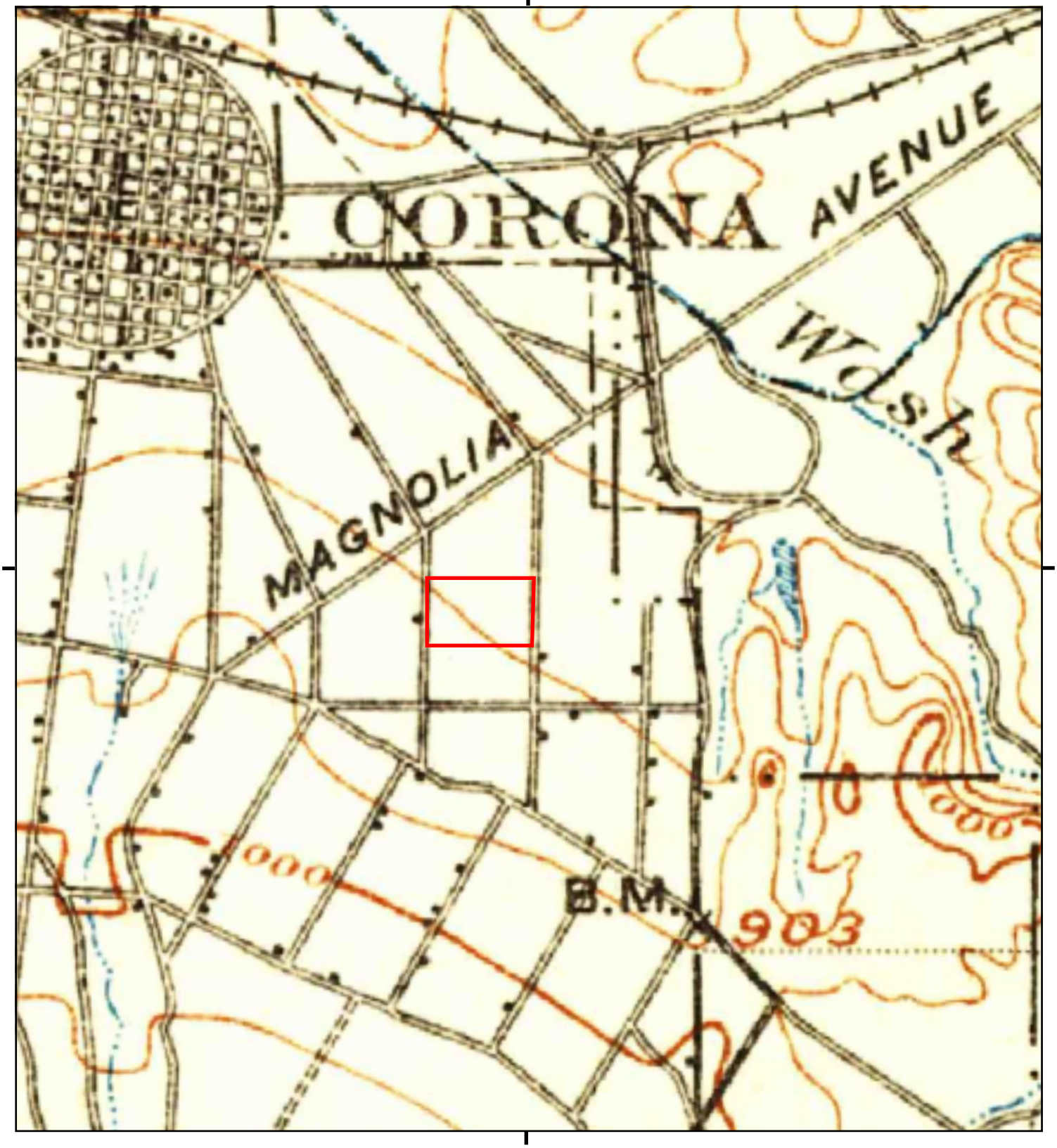
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

N, Corona and Vicinity, 1942, 7.5-minute

SITE NAME: Centennial High School
ADDRESS: 1820 Rimpau Avenue
Corona, CA 92881
CLIENT: EEC

N




This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Corona, 1902, 30-minute

SITE NAME: Centennial High School
ADDRESS: 1820 Rimpau Avenue
Corona, CA 92881
CLIENT: EEC

N

# APPENDIX E
# CITY DIRECTORY REPORT

**Centennial High School**
1820 Rimpau Avenue
Corona, CA 92881

Inquiry Number: 7070636.5
July 29, 2022

# The EDR-City Directory Abstract

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

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***Thank you for your business.***
Please contact EDR at 1-800-352-0050
with any questions or comments.

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# EXECUTIVE SUMMARY

## DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1921 through 2017. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 660 feet of the target property.

A summary of the information obtained is provided in the text of this report.

## RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

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## RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

| Year | Source | TP | Adjoining | Text Abstract | Source Image |
|---|---|---|---|---|---|
| 2017 | Cole Information Services | X | X | X | - |
| 2014 | Cole Information Services | X | X | X | - |
| 2009 | Cole Information Services | X | X | X | - |
| 2004 | Cole Information Services | X | X | X | - |
| 2002 | SBC PACIFIC BELL | - | X | X | - |
| | SBC PACIFIC BELL | X | X | X | - |
| 2001 | Haines & Company, Inc. | - | X | X | - |
| | Haines & Company, Inc. | X | X | X | - |
| 1999 | Cole Information Services | X | X | X | - |
| 1996 | Pacific Bell | - | X | X | - |

# EXECUTIVE SUMMARY

| Year | Source | TP | Adjoining | Text Abstract | Source Image |
|---|---|---|---|---|---|
| 1996 | Pacific Bell | X | X | X | - |
| 1994 | Cole Information Services | X | X | X | - |
| 1993 | Pacific Bell | - | X | X | - |
| | Pacific Bell | X | X | X | - |
| 1990 | Pacific Bell | - | X | X | - |
| | Pacific Bell | X | X | X | - |
| 1986 | Pacific Bell Yellow Pages | - | - | - | - |
| 1981 | Pacific Telephone | - | X | X | - |
| 1977 | Pacific Telephone | - | X | X | - |
| 1970 | Pacific Telephone | - | X | X | - |
| 1967 | Luskey Brothers & Co. | - | - | - | - |
| 1966 | Luskey Brothers & Company Inc. | - | - | - | - |
| 1961 | Luskey Brothers & Co. | - | X | X | - |
| 1960 | Luskeys Brothers & Co., Publishers | - | - | - | - |
| 1956 | Luskey Brothers & Co. | - | - | - | - |
| 1955 | Luskeys Brothers Co., Publishers | - | - | - | - |
| 1951 | Los Angeles Directory Co. | - | - | - | - |
| 1946 | Southern California Telephone Company | - | - | - | - |
| 1945 | Los Angeles Directory Co. | - | - | - | - |
| 1941 | Pacific Directory Co. | - | - | - | - |
| 1939 | Los Angeles Directory Co. | - | - | - | - |
| 1936 | Los Angeles Directory Co. | - | - | - | - |
| 1931 | Southern California Telephone Co. | - | - | - | - |
| 1930 | Los Angeles Directory Co. | - | - | - | - |
| 1927 | Los Angeles Directory Co. | - | - | - | - |
| 1925 | Los Angeles Directory Co. | - | - | - | - |
| 1924 | Kaasen Directory Co. | - | - | - | - |
| 1921 | Riverside Directory Co. | - | - | - | - |

# EXECUTIVE SUMMARY

## SELECTED ADDRESSES

The following addresses were selected by the client, for EDR to research. An "X" indicates where information was identified.

| *Address* | *Type* | *Findings* |
|---|---|---|
| 1963 Rimpau Avenue | Client Entered | |
| 1100 Olympic Drive | Client Entered | X |
| 1980 Fullerton Avenue | Client Entered | X |
| 1810 Fullerton Avenue | Client Entered | |
| 886 Magnolia Avenue | Client Entered | |
| 1849 Baywood Drive | Client Entered | X |

# FINDINGS

## TARGET PROPERTY INFORMATION

### ADDRESS

1820 Rimpau Avenue
Corona, CA 92881

### FINDINGS DETAIL

Target Property research detail.

### RIMPAU AVE

**1820 RIMPAU AVE**

| *Year* | *Uses* | *Source* |
|---|---|---|
| 2017 | CENTENNIAL HIGH SCHOOL | Cole Information Services |
| | CORONANORCO UNIFIED SCHOOL DISTRICT | Cole Information Services |
| 2014 | CENTENNIAL HIGH SCHOOL | Cole Information Services |
| | CORONANORCO UNIFIED SCHOOL DISTRICT | Cole Information Services |
| 2009 | CENTENNIAL HIGH | Cole Information Services |
| 2004 | OCCUPANT UNKNOWN | Cole Information Services |
| 2002 | CENTENNIAL HIGH SCHOOL | SBC PACIFIC BELL |
| 2001 | ATTNDNCE ESPERANZA | Haines & Company, Inc. |
| | CENTENNIAL HIGH | Haines & Company, Inc. |
| | CORONASC CNTNNL HI | Haines & Company, Inc. |
| | POOL CORONA SC CNTNNL HI | Haines & Company, Inc. |
| | PREGNANT MINOR | Haines & Company, Inc. |
| | PRGRM | Haines & Company, Inc. |
| | SCHOOL r CORONACTYPRK | Haines & Company, Inc. |
| 1999 | CENTENNIAL HIGH SCHOOL | Cole Information Services |
| | CORONA CITY OF PARK RECREATION & COMMUNITY SERVICES | Cole Information Services |
| | CORONA NORCO UNIFIED SCHOOL DISTRICTL HIGH SCHOOLS | Cole Information Services |
| | CORONA-NORCO UNIFIED SCHOOL DISTRICT HIGH SCHOOLS GRDE | Cole Information Services |
| | ESPERANZA PREGNANT MINOR PROGRAM | Cole Information Services |
| 1996 | CENTENNIAL HIGH SCHOOL | Pacific Bell |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 1994 | CENTENNIAL HIGH SCHOOL | Cole Information Services |
| | CORONA SC CENTENNL | Cole Information Services |
| 1993 | Attendance Office | Pacific Bell |
| | Centennial High School | Pacific Bell |
| 1990 | CENTENNIAL HIGH SCHOOL | Pacific Bell |

# FINDINGS

## ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

## BAYWOOD DR

**1101 BAYWOOD DR**

| *Year* | *Uses* | *Source* |
|---|---|---|
| 2017 | JAN SANCHES | Cole Information Services |
| | PAUL MORENO | Cole Information Services |
| | JAN SANCHES | Cole Information Services |
| | PAUL MORENO | Cole Information Services |
| 2014 | SHARRON THOMAS | Cole Information Services |
| | DAVID SUBIA | Cole Information Services |
| | SHARRON THOMAS | Cole Information Services |
| | DAVID SUBIA | Cole Information Services |
| 2009 | EDWARD CHAVARRIA | Cole Information Services |
| | JOSE LLANOS | Cole Information Services |
| | SHARRON THOMAS | Cole Information Services |
| | EDWARD CHAVARRIA | Cole Information Services |
| | JOSE LLANOS | Cole Information Services |
| | SHARRON THOMAS | Cole Information Services |
| 2004 | KENNETH CONSAUL | Cole Information Services |
| | NATHAN BURKHARDT | Cole Information Services |
| | BENJAMIN MUNTON | Cole Information Services |
| | OSCAR FLETCHER | Cole Information Services |
| | CHARLES FOSTER | Cole Information Services |
| | KENNETH CONSAUL | Cole Information Services |
| | NATHAN BURKHARDT | Cole Information Services |
| | BENJAMIN MUNTON | Cole Information Services |
| | OSCAR FLETCHER | Cole Information Services |
| | CHARLES FOSTER | Cole Information Services |
| 1999 | EDWARD CHAVARRIA | Cole Information Services |
| | SHARRON THOMAS | Cole Information Services |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 1999 | JOSE LLANOS | Cole Information Services |
| | EDWARD CHAVARRIA | Cole Information Services |
| | SHARRON THOMAS | Cole Information Services |
| | JOSE LLANOS | Cole Information Services |
| 1994 | STOUT, GREG | Cole Information Services |
| | STOUT, GREG | Cole Information Services |

**1121 BAYWOOD DR**

| Year | Uses | Source |
|---|---|---|
| 2017 | CYNTHIA CARATACHEA | Cole Information Services |
| | BARBARA HENDERSON | Cole Information Services |
| | PRIYESH MEHTA | Cole Information Services |
| | MONIQUE HAMILTON | Cole Information Services |
| | GARY JOHNSON | Cole Information Services |
| | AMANDA MACMILLAN | Cole Information Services |
| | JOSEFINA SABATER | Cole Information Services |
| | DANIEL RODRIGUEZ | Cole Information Services |
| | TUCKER RANDLE | Cole Information Services |
| | CYNTHIA CARATACHEA | Cole Information Services |
| | BARBARA HENDERSON | Cole Information Services |
| | PRIYESH MEHTA | Cole Information Services |
| | MONIQUE HAMILTON | Cole Information Services |
| | GARY JOHNSON | Cole Information Services |
| | AMANDA MACMILLAN | Cole Information Services |
| | JOSEFINA SABATER | Cole Information Services |
| | DANIEL RODRIGUEZ | Cole Information Services |
| | TUCKER RANDLE | Cole Information Services |
| 2014 | TAYLER PEARSON | Cole Information Services |
| | JOSEFINA SABATER | Cole Information Services |
| | THOMAS ALVEY | Cole Information Services |
| | DOLORES WEBSTER | Cole Information Services |
| | BHUPINDER SAINI | Cole Information Services |
| | MARK TAYLOR | Cole Information Services |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 2014 | KATHRYN KROHN | Cole Information Services |
| | CAROL YATES | Cole Information Services |
| | DAVID SPRING | Cole Information Services |
| | STEPHANIE TUCKER | Cole Information Services |
| | TAYLER PEARSON | Cole Information Services |
| | JOSEFINA SABATER | Cole Information Services |
| | THOMAS ALVEY | Cole Information Services |
| | DOLORES WEBSTER | Cole Information Services |
| | BHUPINDER SAINI | Cole Information Services |
| | MARK TAYLOR | Cole Information Services |
| | KATHRYN KROHN | Cole Information Services |
| | CAROL YATES | Cole Information Services |
| | DAVID SPRING | Cole Information Services |
| | STEPHANIE TUCKER | Cole Information Services |
| 2009 | PROFESSIONAL MOVING & STORAGE | Cole Information Services |
| | MICHELLE TEMBLADOR | Cole Information Services |
| | DANILLE OLVERA | Cole Information Services |
| | TEMBLADOR MICHELLE | Cole Information Services |
| | EARNEST HOBBS | Cole Information Services |
| | MATTHEW AYCOCK | Cole Information Services |
| | WALTER BRANDRIFF | Cole Information Services |
| | JOSHUA WARDEN | Cole Information Services |
| | PROFESSIONAL MOVING & STORAGE | Cole Information Services |
| | MICHELLE TEMBLADOR | Cole Information Services |
| | DANILLE OLVERA | Cole Information Services |
| | TEMBLADOR MICHELLE | Cole Information Services |
| | EARNEST HOBBS | Cole Information Services |
| | MATTHEW AYCOCK | Cole Information Services |
| | WALTER BRANDRIFF | Cole Information Services |
| | JOSHUA WARDEN | Cole Information Services |
| 2004 | LARRY WEISNER | Cole Information Services |
| | JOSEFINA SABATER | Cole Information Services |

# FINDINGS

| *Year* | *Uses* | *Source* |
|---|---|---|
| 2004 | NORMAN LANGSTON | Cole Information Services |
| | TRAVIS KAWELMACHER | Cole Information Services |
| | CHERISSE BOUCHER | Cole Information Services |
| | JENNIFER SOLYIAN | Cole Information Services |
| | WALTER BRANDRIFF | Cole Information Services |
| | SUSAN FISHER | Cole Information Services |
| | CYNTHIA WALKER | Cole Information Services |
| | ADAM NEGRON | Cole Information Services |
| | LARRY WEISNER | Cole Information Services |
| | JOSEFINA SABATER | Cole Information Services |
| | NORMAN LANGSTON | Cole Information Services |
| | TRAVIS KAWELMACHER | Cole Information Services |
| | CHERISSE BOUCHER | Cole Information Services |
| | JENNIFER SOLYIAN | Cole Information Services |
| | CYNTHIA WALKER | Cole Information Services |
| | WALTER BRANDRIFF | Cole Information Services |
| | SUSAN FISHER | Cole Information Services |
| | ADAM NEGRON | Cole Information Services |
| 1999 | DANILLE OLVERA | Cole Information Services |
| | TEMBLADOR MICHELLE | Cole Information Services |
| | EARNEST HOBBS | Cole Information Services |
| | MATTHEW AYCOCK | Cole Information Services |
| | JOSHUA WARDEN | Cole Information Services |
| | WALTER BRANDRIFF | Cole Information Services |
| | MICHAEL MADDOX | Cole Information Services |
| | MICHELLE TEMBLADOR | Cole Information Services |
| | DANILLE OLVERA | Cole Information Services |
| | TEMBLADOR MICHELLE | Cole Information Services |
| | EARNEST HOBBS | Cole Information Services |
| | MATTHEW AYCOCK | Cole Information Services |
| | WALTER BRANDRIFF | Cole Information Services |
| | JOSHUA WARDEN | Cole Information Services |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 1999 | MICHAEL MADDOX | Cole Information Services |
| | MICHELLE TEMBLADOR | Cole Information Services |

**1141 BAYWOOD DR**

| Year | Uses | Source |
|---|---|---|
| 2017 | CAREN CHARLES | Cole Information Services |
| | N HAMID | Cole Information Services |
| | LIZETH LINARES | Cole Information Services |
| | NOOR RAHIMI | Cole Information Services |
| | CHRIS JOHNSON | Cole Information Services |
| | CAREN CHARLES | Cole Information Services |
| | N HAMID | Cole Information Services |
| | LIZETH LINARES | Cole Information Services |
| | NOOR RAHIMI | Cole Information Services |
| | CHRIS JOHNSON | Cole Information Services |
| 2014 | LESLIE VARGAS | Cole Information Services |
| | JOSHUA BACON | Cole Information Services |
| | EMMA HAMILTON | Cole Information Services |
| | JOHN NIBLETT | Cole Information Services |
| | LESLIE VARGAS | Cole Information Services |
| | JOSHUA BACON | Cole Information Services |
| | EMMA HAMILTON | Cole Information Services |
| | JOHN NIBLETT | Cole Information Services |
| 2009 | MUHAMMAD MOAZ | Cole Information Services |
| | MONICA PAREDES | Cole Information Services |
| | ALEXANDER LIEBMAN | Cole Information Services |
| | SOON BELTRAN | Cole Information Services |
| | JOHN NIBLETT | Cole Information Services |
| | MUHAMMAD MOAZ | Cole Information Services |
| | MONICA PAREDES | Cole Information Services |
| | ALEXANDER LIEBMAN | Cole Information Services |
| | SOON BELTRAN | Cole Information Services |
| | JOHN NIBLETT | Cole Information Services |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 2004 | ELIZETE SHAWKI | Cole Information Services |
| | MICHAEL SALAS | Cole Information Services |
| | ANNY COUSINO | Cole Information Services |
| | JOHN NIBLETT | Cole Information Services |
| | SOON BELTRAN | Cole Information Services |
| | ELIZETE SHAWKI | Cole Information Services |
| | MICHAEL SALAS | Cole Information Services |
| | ANNY COUSINO | Cole Information Services |
| | JOHN NIBLETT | Cole Information Services |
| | SOON BELTRAN | Cole Information Services |
| 1999 | MUHAMMAD MOAZ | Cole Information Services |
| | ALEXANDER LIEBMAN | Cole Information Services |
| | SOON BELTRAN | Cole Information Services |
| | JOHN NIBLETT | Cole Information Services |
| | MONICA PAREDES | Cole Information Services |
| | MUHAMMAD MOAZ | Cole Information Services |
| | ALEXANDER LIEBMAN | Cole Information Services |
| | SOON BELTRAN | Cole Information Services |
| | JOHN NIBLETT | Cole Information Services |
| | MONICA PAREDES | Cole Information Services |
| 1994 | SIEGRIST, JAMES F | Cole Information Services |
| | SIEGRIST, JAMES F | Cole Information Services |

**1161 BAYWOOD DR**

| Year | Uses | Source |
|---|---|---|
| 2017 | C NUESTRO | Cole Information Services |
| | TAMMY PARKS | Cole Information Services |
| | LUIS CORREA | Cole Information Services |
| | ERICKA RANSOM | Cole Information Services |
| | JAMILA WILLIAMS | Cole Information Services |
| | MATHEW RODARTE | Cole Information Services |
| | KAM WONG | Cole Information Services |
| | ANGELICA FLORES | Cole Information Services |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 2017 | MARSHA SLUSSER | Cole Information Services |
| | MEAIKEL ATHER | Cole Information Services |
| | C NUESTRO | Cole Information Services |
| | TAMMY PARKS | Cole Information Services |
| | LUIS CORREA | Cole Information Services |
| | ERICKA RANSOM | Cole Information Services |
| | JAMILA WILLIAMS | Cole Information Services |
| | MATHEW RODARTE | Cole Information Services |
| | KAM WONG | Cole Information Services |
| | ANGELICA FLORES | Cole Information Services |
| | MARSHA SLUSSER | Cole Information Services |
| | MEAIKEL ATHER | Cole Information Services |
| 2014 | JEFFREY BARDARO | Cole Information Services |
| | GEORGE DIAZ-VENTURA | Cole Information Services |
| | DEANDRA JUDD | Cole Information Services |
| | LUIS CORREA | Cole Information Services |
| | MEAIKEL ATHER | Cole Information Services |
| | RICHARD SEATON | Cole Information Services |
| | RANDAL DURST | Cole Information Services |
| | GUILLERMO GUEVARA | Cole Information Services |
| | THOMAS PARKS | Cole Information Services |
| | JEFFREY BARDARO | Cole Information Services |
| | GEORGE DIAZ-VENTURA | Cole Information Services |
| | DEANDRA JUDD | Cole Information Services |
| | LUIS CORREA | Cole Information Services |
| | MEAIKEL ATHER | Cole Information Services |
| | RICHARD SEATON | Cole Information Services |
| | RANDAL DURST | Cole Information Services |
| | GUILLERMO GUEVARA | Cole Information Services |
| | THOMAS PARKS | Cole Information Services |
| 2009 | ROCIO GARCIA | Cole Information Services |
| | MARCOS MARTELL | Cole Information Services |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 2009 | JENNIFER KONRAD | Cole Information Services |
| | JEFFERY OLSON | Cole Information Services |
| | PERCY TRUYENQUE | Cole Information Services |
| | VANESA SALAZAR | Cole Information Services |
| | RICHARD SEATON | Cole Information Services |
| | DIANA RAMEY | Cole Information Services |
| | STEVEN LOPES | Cole Information Services |
| | ROCIO GARCIA | Cole Information Services |
| | MARCOS MARTELL | Cole Information Services |
| | JENNIFER KONRAD | Cole Information Services |
| | JEFFERY OLSON | Cole Information Services |
| | PERCY TRUYENQUE | Cole Information Services |
| | VANESA SALAZAR | Cole Information Services |
| | RICHARD SEATON | Cole Information Services |
| | DIANA RAMEY | Cole Information Services |
| | STEVEN LOPES | Cole Information Services |
| 2004 | PAN KAZAROFF | Cole Information Services |
| | ERIC HANSON | Cole Information Services |
| | RICHARD UNCIANO | Cole Information Services |
| | JULIAN FLORES | Cole Information Services |
| | ERIC NERIA | Cole Information Services |
| | JOHN MILAZZO | Cole Information Services |
| | THEODORE LEONARD | Cole Information Services |
| | JOON CHA | Cole Information Services |
| | DAVID MCDANIEL | Cole Information Services |
| | MARY PANIAGUA | Cole Information Services |
| | RICHARD MALDONADO | Cole Information Services |
| | RHEA DEGUZMAN | Cole Information Services |
| | PAN KAZAROFF | Cole Information Services |
| | ERIC HANSON | Cole Information Services |
| | JULIAN FLORES | Cole Information Services |
| | RICHARD UNCIANO | Cole Information Services |

# FINDINGS

| *Year* | *Uses* | *Source* |
|---|---|---|
| 2004 | ERIC NERIA | Cole Information Services |
| | JOHN MILAZZO | Cole Information Services |
| | THEODORE LEONARD | Cole Information Services |
| | JOON CHA | Cole Information Services |
| | DAVID MCDANIEL | Cole Information Services |
| | MARY PANIAGUA | Cole Information Services |
| | RICHARD MALDONADO | Cole Information Services |
| | RHEA DEGUZMAN | Cole Information Services |
| 1999 | JEFFERY OLSON | Cole Information Services |
| | BRADLEY MAVERS | Cole Information Services |
| | VANESA SALAZAR | Cole Information Services |
| | RICHARD SEATON | Cole Information Services |
| | DIANA RAMEY | Cole Information Services |
| | STEVEN LOPES | Cole Information Services |
| | ROCIO GARCIA | Cole Information Services |
| | JENNIFER KONRAD | Cole Information Services |
| | PERCY TRUYENQUE | Cole Information Services |
| | M MARTINEZ | Cole Information Services |
| | JEFFERY OLSON | Cole Information Services |
| | BRADLEY MAVERS | Cole Information Services |
| | VANESA SALAZAR | Cole Information Services |
| | RICHARD SEATON | Cole Information Services |
| | DIANA RAMEY | Cole Information Services |
| | STEVEN LOPES | Cole Information Services |
| | ROCIO GARCIA | Cole Information Services |
| | JENNIFER KONRAD | Cole Information Services |
| | PERCY TRUYENQUE | Cole Information Services |
| | M MARTINEZ | Cole Information Services |
| 1994 | TOTH, LARRY M | Cole Information Services |
| | PASLAY, JAMES C | Cole Information Services |
| | TOTH, LARRY M | Cole Information Services |
| | PASLAY, JAMES C | Cole Information Services |

# FINDINGS

**1171 BAYWOOD DR**

| *Year* | *Uses* | *Source* |
|---|---|---|
| 2017 | WATERSTONE AT CORONA POINTE | Cole Information Services |
| | WATERSTONE AT CORONA POINTE | Cole Information Services |
| 2014 | WATERSTONE AT CORONA POINTE | Cole Information Services |
| | WATERSTONE AT CORONA POINTE | Cole Information Services |
| 2009 | ALLIANCE RESIDENTIAL LLC | Cole Information Services |
| | WATERSTONE AT CORONA POINTE | Cole Information Services |
| | BAYWOOD VILLA APARTMENTS | Cole Information Services |
| | ALLIANCE RESIDENTIAL LLC | Cole Information Services |
| | WATERSTONE AT CORONA POINTE | Cole Information Services |
| | BAYWOOD VILLA APARTMENTS | Cole Information Services |
| 2004 | BA YWOOD VILLA APARTMENTS | Cole Information Services |
| | BA YWOOD VILLA APARTMENTS | Cole Information Services |
| 1999 | BAYWOOD VILLA APARTMENTS | Cole Information Services |
| | BAYWOOD VILLA APARTMENTS | Cole Information Services |
| 1994 | BAYWOOD VILLA APARTMENTS | Cole Information Services |
| | BAYWOOD VILLA APARTMENTS | Cole Information Services |

**1849 BAYWOOD DR**

| *Year* | *Uses* | *Source* |
|---|---|---|
| 2017 | MONICA LOMBARD | Cole Information Services |
| | NICK MASSARO | Cole Information Services |
| | EMILIO ESCOBAR | Cole Information Services |
| | DANNY URIBE | Cole Information Services |
| | SANT SINGH | Cole Information Services |
| | ALMA BETANCOURT | Cole Information Services |
| | DIANA RAMOS | Cole Information Services |
| | SHIRLEY BENCKERT | Cole Information Services |
| 2014 | RICHARD MILLAN | Cole Information Services |
| | MATT ESTES | Cole Information Services |
| | NICK MASSARO | Cole Information Services |
| | DANIELLE THOMPSON | Cole Information Services |
| | RACHEL RUSHING | Cole Information Services |

# FINDINGS

| *Year* | *Uses* | *Source* |
|---|---|---|
| 2009 | SIKKENGA PLUMBING | Cole Information Services |
| | WILLIAM GURWELL | Cole Information Services |
| | LOURDES VASQUEZ | Cole Information Services |
| | DEBRA HRYCYK | Cole Information Services |
| | RICARDO SOTO | Cole Information Services |
| | MOHAMED LADJEVARDI | Cole Information Services |
| | K KIM | Cole Information Services |
| | DEBRA BLUDSO | Cole Information Services |
| | EMILY BAUMER | Cole Information Services |
| | CARLAS OBESO | Cole Information Services |
| | GERARDO HERNANDEZ | Cole Information Services |
| | SONIA LOPEZ | Cole Information Services |
| 2004 | ASHLEY RENTFRO | Cole Information Services |
| | MOHAMED LADJEVARDI | Cole Information Services |
| | ANDREW HERRING | Cole Information Services |
| | DAVID JOHNSON | Cole Information Services |
| | JANE OCHOA | Cole Information Services |
| | VINCENT ADAUTO | Cole Information Services |
| | SARAH HECK | Cole Information Services |
| | JANIS WEST | Cole Information Services |
| | LAURA OCHOA | Cole Information Services |
| | JOHN AMMERMAN | Cole Information Services |
| | MARIO CRUZ | Cole Information Services |
| | CARL FRANK | Cole Information Services |
| | ANGIE HOBSON | Cole Information Services |
| | J PACE | Cole Information Services |
| | LEWIS PERRY | Cole Information Services |
| | EDWARD FITTANTE | Cole Information Services |
| 1999 | DEBRA HRYCYK | Cole Information Services |
| | CARLAS OBESO | Cole Information Services |
| | WILLIAM GURWELL | Cole Information Services |
| | LOURDES VASQUEZ | Cole Information Services |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 1999 | GERARDO HERNANDEZ | Cole Information Services |
| | RICARDO SOTO | Cole Information Services |
| | SONIA LOPEZ | Cole Information Services |
| | EMILY BAUMER | Cole Information Services |
| | MOHAMED LADJEVARDI | Cole Information Services |
| | DEBRA BLUDSO | Cole Information Services |
| | K KIM | Cole Information Services |

**1857 BAYWOOD DR**

| Year | Uses | Source |
|---|---|---|
| 2017 | DANIEL CUSTODIO | Cole Information Services |
| | CASEY WALLACE | Cole Information Services |
| | SUNIT BHOPAL | Cole Information Services |
| | JONATHAN NELSON | Cole Information Services |
| | ARACELI POSSO | Cole Information Services |
| | PEDRO LUCIO | Cole Information Services |
| | MAURA PAYNE | Cole Information Services |
| | PAULETTA GIBSON | Cole Information Services |
| | JAIME VILLASENOR | Cole Information Services |
| | SUNIT BHOPAL | Cole Information Services |
| | JONATHAN NELSON | Cole Information Services |
| | ARACELI POSSO | Cole Information Services |
| | PEDRO LUCIO | Cole Information Services |
| | MAURA PAYNE | Cole Information Services |
| | PAULETTA GIBSON | Cole Information Services |
| | JAIME VILLASENOR | Cole Information Services |
| | DANIEL CUSTODIO | Cole Information Services |
| | CASEY WALLACE | Cole Information Services |
| 2014 | KRISTEN SIBIGLIA | Cole Information Services |
| | AUDINA MAZARIEGOS | Cole Information Services |
| | MARVIL SORTO | Cole Information Services |
| | ARACELI POSSO | Cole Information Services |
| | TYNDAL HOLLINS | Cole Information Services |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 2014 | GILBERTO DIAZ | Cole Information Services |
| | CASEY WALLACE | Cole Information Services |
| | DANIEL CUSTODIO | Cole Information Services |
| | KEITH MARBORY | Cole Information Services |
| | OSVALDO LARGAESPADA | Cole Information Services |
| | KRISTEN SIBIGLIA | Cole Information Services |
| | AUDINA MAZARIEGOS | Cole Information Services |
| | MARVIL SORTO | Cole Information Services |
| | ARACELI POSSO | Cole Information Services |
| | TYNDAL HOLLINS | Cole Information Services |
| | GILBERTO DIAZ | Cole Information Services |
| | CASEY WALLACE | Cole Information Services |
| | DANIEL CUSTODIO | Cole Information Services |
| | KEITH MARBORY | Cole Information Services |
| | OSVALDO LARGAESPADA | Cole Information Services |
| 2009 | FRENANDO CAMACHOS | Cole Information Services |
| | PATRICIA AMES | Cole Information Services |
| | MATIN ASHOORIYOUN | Cole Information Services |
| | LUIS HERRERA | Cole Information Services |
| | SANDI FRERICHS | Cole Information Services |
| | MAYRA LOMELI | Cole Information Services |
| | KYUNG AHN | Cole Information Services |
| | TEJAL PATEL | Cole Information Services |
| | GILLIAN GERAGHTY | Cole Information Services |
| | FRENANDO CAMACHOS | Cole Information Services |
| | PATRICIA AMES | Cole Information Services |
| | LUIS HERRERA | Cole Information Services |
| | MATIN ASHOORIYOUN | Cole Information Services |
| | SANDI FRERICHS | Cole Information Services |
| | GILLIAN GERAGHTY | Cole Information Services |
| | KYUNG AHN | Cole Information Services |
| | TEJAL PATEL | Cole Information Services |

# FINDINGS

| *Year* | *Uses* | *Source* |
|---|---|---|
| 2009 | MAYRA LOMELI | Cole Information Services |
| 2004 | CARL PAYNE | Cole Information Services |
| | TRISTAM ROBBINS | Cole Information Services |
| | S BEVACQUA | Cole Information Services |
| | TIFFANEY LYDA | Cole Information Services |
| | ANDREW LEVINE | Cole Information Services |
| | RAMON GARCIA | Cole Information Services |
| | ROBERT RICHARDS | Cole Information Services |
| | KANDICE BEAVERS | Cole Information Services |
| | C HENDERSON | Cole Information Services |
| | MICHELLE MASON | Cole Information Services |
| | IRENE NELSON | Cole Information Services |
| | CARL PAYNE | Cole Information Services |
| | TRISTAM ROBBINS | Cole Information Services |
| | TIFFANEY LYDA | Cole Information Services |
| | S BEVACQUA | Cole Information Services |
| | ANDREW LEVINE | Cole Information Services |
| | RAMON GARCIA | Cole Information Services |
| | ROBERT RICHARDS | Cole Information Services |
| | KANDICE BEAVERS | Cole Information Services |
| | C HENDERSON | Cole Information Services |
| | MICHELLE MASON | Cole Information Services |
| | IRENE NELSON | Cole Information Services |
| 2002 | APARTMENTS | SBC PACIFIC BELL |
| | Hodne Collin | SBC PACIFIC BELL |
| | Harnett Tom | SBC PACIFIC BELL |
| | Levine Susan | SBC PACIFIC BELL |
| 1999 | KYUNG AHN | Cole Information Services |
| | TEJAL PATEL | Cole Information Services |
| | PATRICIA AMES | Cole Information Services |
| | SANDI FRERICHS | Cole Information Services |
| | GILLIAN GERAGHTY | Cole Information Services |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 1999 | MAYRA LOMELI | Cole Information Services |
| | MATIN ASHOORIYOUN | Cole Information Services |
| | LUIS HERRERA | Cole Information Services |
| | KYUNG AHN | Cole Information Services |
| | TEJAL PATEL | Cole Information Services |
| | PATRICIA AMES | Cole Information Services |
| | SANDI FRERICHS | Cole Information Services |
| | MAYRA LOMELI | Cole Information Services |
| | GILLIAN GERAGHTY | Cole Information Services |
| | LUIS HERRERA | Cole Information Services |
| | MATIN ASHOORIYOUN | Cole Information Services |
| 1993 | Frandsen Dale | Pacific Bell |

**1861 BAYWOOD DR**

| Year | Uses | Source |
|---|---|---|
| 2009 | CECILE PHAM | Cole Information Services |
| 2004 | CECILE PHAM | Cole Information Services |
| 1999 | CECILE PHAM | Cole Information Services |

**1864 BAYWOOD DR**

| Year | Uses | Source |
|---|---|---|
| 2017 | ALISIA GALVAN | Cole Information Services |
| | TINAMARIE MARTINEZ | Cole Information Services |
| | ANA ACEVEVO | Cole Information Services |
| | HEATHER TATRO | Cole Information Services |
| | DORIAN DANIELS | Cole Information Services |
| | JASMINE HALE | Cole Information Services |
| | ZILLI MCDUFFIE | Cole Information Services |
| | DANIEL PERALES | Cole Information Services |
| | MELINA FALCON | Cole Information Services |
| | ROBERT LANCASTER | Cole Information Services |
| | XIOMARA MOODIE | Cole Information Services |
| | JUAN PEREZ | Cole Information Services |
| | ALISIA GALVAN | Cole Information Services |

# FINDINGS

| *Year* | *Uses* | *Source* |
|---|---|---|
| 2017 | TINAMARIE MARTINEZ | Cole Information Services |
| | ANA ACEVEVO | Cole Information Services |
| | HEATHER TATRO | Cole Information Services |
| | DORIAN DANIELS | Cole Information Services |
| | JASMINE HALE | Cole Information Services |
| | ZILLI MCDUFFIE | Cole Information Services |
| | DANIEL PERALES | Cole Information Services |
| | MELINA FALCON | Cole Information Services |
| | ROBERT LANCASTER | Cole Information Services |
| | XIOMARA MOODIE | Cole Information Services |
| | JUAN PEREZ | Cole Information Services |
| 2014 | JOSEPH GILSON | Cole Information Services |
| | JUAN LOPEZ | Cole Information Services |
| | MARIE LANCASTER | Cole Information Services |
| | BRANDI STRAND | Cole Information Services |
| | LEXIE VANBLOEM | Cole Information Services |
| | ADAM LEITLEIN | Cole Information Services |
| | ERIKA WILLIAMS | Cole Information Services |
| | KELLY COX | Cole Information Services |
| | MICHEAL MARQUIS | Cole Information Services |
| | RACQUEL CHAPPELL | Cole Information Services |
| | JOSEPH GILSON | Cole Information Services |
| | JUAN LOPEZ | Cole Information Services |
| | MARIE LANCASTER | Cole Information Services |
| | BRANDI STRAND | Cole Information Services |
| | LEXIE VANBLOEM | Cole Information Services |
| | ADAM LEITLEIN | Cole Information Services |
| | ERIKA WILLIAMS | Cole Information Services |
| | KELLY COX | Cole Information Services |
| | MICHEAL MARQUIS | Cole Information Services |
| | RACQUEL CHAPPELL | Cole Information Services |
| 2009 | KIMBERLY SHROPSHIRE | Cole Information Services |

# FINDINGS

| *Year* | *Uses* | *Source* |
|---|---|---|
| 2009 | ROXANNE HILTON | Cole Information Services |
| | NAOMI SHOEMATE | Cole Information Services |
| | JOSEPH GILSON | Cole Information Services |
| | ROGELIO OJENDI | Cole Information Services |
| | SARAH BURNS | Cole Information Services |
| | HEATHER TATRO | Cole Information Services |
| | ESTELA LOPEZ | Cole Information Services |
| | KIMBERLY SHROPSHIRE | Cole Information Services |
| | ROXANNE HILTON | Cole Information Services |
| | NAOMI SHOEMATE | Cole Information Services |
| | JOSEPH GILSON | Cole Information Services |
| | ROGELIO OJENDI | Cole Information Services |
| | SARAH BURNS | Cole Information Services |
| | ESTELA LOPEZ | Cole Information Services |
| | HEATHER TATRO | Cole Information Services |
| 2004 | SAMIT KADAKIA | Cole Information Services |
| | SHEILA CAMATO | Cole Information Services |
| | Y YEH | Cole Information Services |
| | GAYLA ALLEN | Cole Information Services |
| | RENE CASTELLANOS | Cole Information Services |
| | CARRIE BENAVIDES | Cole Information Services |
| | MONIKO SIMMONS | Cole Information Services |
| | GINA MOORE | Cole Information Services |
| | NICHOLAS BRADLEY | Cole Information Services |
| | DONALD HANSON | Cole Information Services |
| | ARTURO GOMEZ | Cole Information Services |
| | SAMIT KADAKIA | Cole Information Services |
| | SHEILA CAMATO | Cole Information Services |
| | Y YEH | Cole Information Services |
| | GAYLA ALLEN | Cole Information Services |
| | RENE CASTELLANOS | Cole Information Services |
| | CARRIE BENAVIDES | Cole Information Services |

# FINDINGS

| *Year* | *Uses* | *Source* |
|---|---|---|
| 2004 | MONIKO SIMMONS | Cole Information Services |
| | GINA MOORE | Cole Information Services |
| | NICHOLAS BRADLEY | Cole Information Services |
| | DONALD HANSON | Cole Information Services |
| | ARTURO GOMEZ | Cole Information Services |
| 2002 | Loza Fadi | SBC PACIFIC BELL |
| | Hanson Donald W | SBC PACIFIC BELL |
| | Irimies Ciprian A | SBC PACIFIC BELL |
| | Lyons Moniko | SBC PACIFIC BELL |
| | Truslow James M | SBC PACIFIC BELL |
| | APARTMENTS | SBC PACIFIC BELL |
| 1999 | ROXANNE HILTON | Cole Information Services |
| | KIMBERLY SHROPSHIRE | Cole Information Services |
| | NAOMI SHOEMATE | Cole Information Services |
| | JOSEPH GILSON | Cole Information Services |
| | ROGELIO OJENDI | Cole Information Services |
| | SARAH BURNS | Cole Information Services |
| | HEATHER TATRO | Cole Information Services |
| | ESTELA LOPEZ | Cole Information Services |
| | ROXANNE HILTON | Cole Information Services |
| | KIMBERLY SHROPSHIRE | Cole Information Services |
| | NAOMI SHOEMATE | Cole Information Services |
| | JOSEPH GILSON | Cole Information Services |
| | ROGELIO OJENDI | Cole Information Services |
| | SARAH BURNS | Cole Information Services |
| | ESTELA LOPEZ | Cole Information Services |
| | HEATHER TATRO | Cole Information Services |
| 1996 | Kalajian Michael | Pacific Bell |
| | McLain Bill R | Pacific Bell |
| | Bruner Jim | Pacific Bell |
| 1994 | HALE, CHESTER | Cole Information Services |
| | HALE, CHESTER | Cole Information Services |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 1993 | Hunter Electric | Pacific Bell |
| | Hunter Hugh H | Pacific Bell |
| | Moussa Elias | Pacific Bell |
| | Moutard Wylie & Barbara | Pacific Bell |
| | Parsons Martin D | Pacific Bell |
| | Sparza R | Pacific Bell |
| | Hunter Dan | Pacific Bell |
| | Huelat Chris | Pacific Bell |
| | Garcia Ray | Pacific Bell |
| | Garcia Raul | Pacific Bell |
| | Lee Ok Jin | Pacific Bell |
| 1990 | Goldmann Nicholas L | Pacific Bell |

**1865 BAYWOOD DR**

| Year | Uses | Source |
|---|---|---|
| 2017 | MADALYNN HERNANDEZ | Cole Information Services |
| | IVONNE LARKIN | Cole Information Services |
| | JASON ESTES | Cole Information Services |
| | KEON GREEN | Cole Information Services |
| | DONAVAN BOONE | Cole Information Services |
| | HARINDER BRAR | Cole Information Services |
| | SHANZA ABDULLAH | Cole Information Services |
| | LISA GREEN | Cole Information Services |
| | MADALYNN HERNANDEZ | Cole Information Services |
| | IVONNE LARKIN | Cole Information Services |
| | JASON ESTES | Cole Information Services |
| | KEON GREEN | Cole Information Services |
| | DONAVAN BOONE | Cole Information Services |
| | HARINDER BRAR | Cole Information Services |
| | SHANZA ABDULLAH | Cole Information Services |
| | LISA GREEN | Cole Information Services |
| 2014 | JUAN CORTEZ | Cole Information Services |
| | LETICIA SANCHEZ | Cole Information Services |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 2014 | MICHELLE SWALM | Cole Information Services |
| | ROLANDO SANTOS | Cole Information Services |
| | J SIMPSON | Cole Information Services |
| | LISA GREEN | Cole Information Services |
| | MIKE MATHESON | Cole Information Services |
| | ERICA LEAKE | Cole Information Services |
| | MARIA ROLDAN | Cole Information Services |
| | FARHANA ABDULLAH | Cole Information Services |
| | JUAN CORTEZ | Cole Information Services |
| | LETICIA SANCHEZ | Cole Information Services |
| | MICHELLE SWALM | Cole Information Services |
| | ROLANDO SANTOS | Cole Information Services |
| | J SIMPSON | Cole Information Services |
| | LISA GREEN | Cole Information Services |
| | MIKE MATHESON | Cole Information Services |
| | ERICA LEAKE | Cole Information Services |
| | MARIA ROLDAN | Cole Information Services |
| | FARHANA ABDULLAH | Cole Information Services |
| 2009 | ADIL SHAHZAD | Cole Information Services |
| | RUBEN ALDERETE | Cole Information Services |
| | PRESCILLA PATTERSON | Cole Information Services |
| | JUAN CORTEZ | Cole Information Services |
| | BRYANT GORDON | Cole Information Services |
| | ADIL SHAHZAD | Cole Information Services |
| | RUBEN ALDERETE | Cole Information Services |
| | PRESCILLA PATTERSON | Cole Information Services |
| | JUAN CORTEZ | Cole Information Services |
| | BRYANT GORDON | Cole Information Services |
| 2004 | VALERIE ARELLANO | Cole Information Services |
| | GLORIA ANTONIO | Cole Information Services |
| | SARAH GRUBAUGH | Cole Information Services |
| | DAVID HANSON | Cole Information Services |

# FINDINGS

| *Year* | *Uses* | *Source* |
|---|---|---|
| 2004 | JEFFREY CARTER | Cole Information Services |
| | SANDI LUDINGTON | Cole Information Services |
| | TIM DETRICK | Cole Information Services |
| | JIMMY YAGDULAS | Cole Information Services |
| | CASANDRA PACHECO | Cole Information Services |
| | JEANNE PYLE | Cole Information Services |
| | VERONICA GONZALEZ | Cole Information Services |
| | VALERIE ARELLANO | Cole Information Services |
| | GLORIA ANTONIO | Cole Information Services |
| | SARAH GRUBAUGH | Cole Information Services |
| | DAVID HANSON | Cole Information Services |
| | JEFFREY CARTER | Cole Information Services |
| | SANDI LUDINGTON | Cole Information Services |
| | TIM DETRICK | Cole Information Services |
| | JIMMY YAGDULAS | Cole Information Services |
| | CASANDRA PACHECO | Cole Information Services |
| | JEANNE PYLE | Cole Information Services |
| | VERONICA GONZALEZ | Cole Information Services |
| 2002 | APARTMENTS | SBC PACIFIC BELL |
| | Antonio Gloria | SBC PACIFIC BELL |
| 1999 | BRYANT GORDON | Cole Information Services |
| | ADIL SHAHZAD | Cole Information Services |
| | RUBEN ALDERETE | Cole Information Services |
| | JUAN CORTEZ | Cole Information Services |
| | PRESCILLA PATTERSON | Cole Information Services |
| | BRYANT GORDON | Cole Information Services |
| | ADIL SHAHZAD | Cole Information Services |
| | RUBEN ALDERETE | Cole Information Services |
| | JUAN CORTEZ | Cole Information Services |
| | PRESCILLA PATTERSON | Cole Information Services |
| 1994 | LAGUNAS, A | Cole Information Services |
| | BLACKWOOD, RANDALL | Cole Information Services |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 1994 | CHOATE, WAYNE | Cole Information Services |
| | LAGUNAS, A | Cole Information Services |
| | BLACKWOOD, RANDALL | Cole Information Services |
| | CHOATE, WAYNE | Cole Information Services |
| 1993 | Blackwood Randall & Pamela | Pacific Bell |
| | Bladow Gilbert | Pacific Bell |
| | Blagg Patricia | Pacific Bell |
| | Choate Wayne & Tisha | Pacific Bell |
| | I Chocha Naranbhai | Pacific Bell |

**1873 BAYWOOD DR**

| Year | Uses | Source |
|---|---|---|
| 2017 | HYONJU BENNETT | Cole Information Services |
| | DONALD HANSON | Cole Information Services |
| | SCOTT SCHAEDEL | Cole Information Services |
| | ARTHUR COCHERELL | Cole Information Services |
| | MARY MCCLURE | Cole Information Services |
| | MARIO EVANGELISTA | Cole Information Services |
| | TRAVIS BENNETT | Cole Information Services |
| | GERARDO GONZALEZ | Cole Information Services |
| | WILLIE DAVIS | Cole Information Services |
| | HYONJU BENNETT | Cole Information Services |
| | DONALD HANSON | Cole Information Services |
| | SCOTT SCHAEDEL | Cole Information Services |
| | ARTHUR COCHERELL | Cole Information Services |
| | MARY MCCLURE | Cole Information Services |
| | MARIO EVANGELISTA | Cole Information Services |
| | TRAVIS BENNETT | Cole Information Services |
| | GERARDO GONZALEZ | Cole Information Services |
| | WILLIE DAVIS | Cole Information Services |
| 2014 | BAKHTYAR BALOUCH | Cole Information Services |
| | DANIEL LEE | Cole Information Services |
| | DONALD HANSON | Cole Information Services |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 2014 | ANTHONY LASSOS | Cole Information Services |
| | CHRISTINA MENA | Cole Information Services |
| | BEATRICE SOTO | Cole Information Services |
| | MARY MCCLURE | Cole Information Services |
| | VICTOR VELAZCO | Cole Information Services |
| | HEATHER ANDERSON | Cole Information Services |
| | PAM WICKHAM | Cole Information Services |
| | BAKHTYAR BALOUCH | Cole Information Services |
| | DANIEL LEE | Cole Information Services |
| | DONALD HANSON | Cole Information Services |
| | ANTHONY LASSOS | Cole Information Services |
| | CHRISTINA MENA | Cole Information Services |
| | BEATRICE SOTO | Cole Information Services |
| | MARY MCCLURE | Cole Information Services |
| | VICTOR VELAZCO | Cole Information Services |
| | HEATHER ANDERSON | Cole Information Services |
| | PAM WICKHAM | Cole Information Services |
| 2009 | JOSHUA MOORE | Cole Information Services |
| | GERALD HALE | Cole Information Services |
| | JACKLYN SMOOT | Cole Information Services |
| | PAUL WICKHAM | Cole Information Services |
| | JOSHUA MOORE | Cole Information Services |
| | GERALD HALE | Cole Information Services |
| | JACKLYN SMOOT | Cole Information Services |
| | PAUL WICKHAM | Cole Information Services |
| 2004 | REINA ALDERETTE | Cole Information Services |
| | JILL PINSON | Cole Information Services |
| | DAVID KENWORTHY | Cole Information Services |
| | NICOLE HIDALGO | Cole Information Services |
| | D BRISCO | Cole Information Services |
| | TERESA ROBINSON | Cole Information Services |
| | NICOLE BISSEGGER | Cole Information Services |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 2004 | DIXIE GILBERT | Cole Information Services |
| | TIM LAWRENCE | Cole Information Services |
| | REINA ALDERETTE | Cole Information Services |
| | JILL PINSON | Cole Information Services |
| | DAVID KENWORTHY | Cole Information Services |
| | NICOLE HIDALGO | Cole Information Services |
| | D BRISCO | Cole Information Services |
| | TERESA ROBINSON | Cole Information Services |
| | NICOLE BISSEGGER | Cole Information Services |
| | DIXIE GILBERT | Cole Information Services |
| | TIM LAWRENCE | Cole Information Services |
| 2002 | APARTMENTS | SBC PACIFIC BELL |
| | Gilbert Dixie L | SBC PACIFIC BELL |
| | Gilbert Dixie L | SBC PACIFIC BELL |
| 1999 | JOSHUA MOORE | Cole Information Services |
| | PAUL WICKHAM | Cole Information Services |
| | GERALD HALE | Cole Information Services |
| | JACKLYN SMOOT | Cole Information Services |
| | JOSHUA MOORE | Cole Information Services |
| | PAUL WICKHAM | Cole Information Services |
| | GERALD HALE | Cole Information Services |
| | JACKLYN SMOOT | Cole Information Services |
| 1996 | Stoner Barbara | Pacific Bell |
| | Kalajian Michael | Pacific Bell |
| 1993 | Donston Thomas LII | Pacific Bell |
| | Tamasaki Yoshihsa | Pacific Bell |

**1874 BAYWOOD DR**

| Year | Uses | Source |
|---|---|---|
| 2014 | GRACE DAVIS | Cole Information Services |

**1878 BAYWOOD DR**

| Year | Uses | Source |
|---|---|---|
| 2017 | ROBERT KAVANAGH | Cole Information Services |

# FINDINGS

| *Year* | *Uses* | *Source* |
|---|---|---|
| 2017 | RAUL MAQUEDA | Cole Information Services |
| | CHRISTINA BALBOA | Cole Information Services |
| | NOE PAREDES | Cole Information Services |
| | JUDITH WHITE | Cole Information Services |
| | AARON WILLIAMS | Cole Information Services |
| | KARINA ALVAREZ | Cole Information Services |
| | EMAGIN VIRREY | Cole Information Services |
| | ROBERT KAVANAGH | Cole Information Services |
| | RAUL MAQUEDA | Cole Information Services |
| | CHRISTINA BALBOA | Cole Information Services |
| | NOE PAREDES | Cole Information Services |
| | JUDITH WHITE | Cole Information Services |
| | AARON WILLIAMS | Cole Information Services |
| | KARINA ALVAREZ | Cole Information Services |
| | EMAGIN VIRREY | Cole Information Services |
| 2014 | MARSHA JOHNSON | Cole Information Services |
| | JUDITH WHITE | Cole Information Services |
| | KARLA PEREZ | Cole Information Services |
| | MARIA SAUCEDO | Cole Information Services |
| | NOE PAREDES | Cole Information Services |
| | DENNIS HALL | Cole Information Services |
| | CAMERON BROWN | Cole Information Services |
| | STEPHANIE ALVAREZ | Cole Information Services |
| | ROBERT KAVANAGH | Cole Information Services |
| | MARSHA JOHNSON | Cole Information Services |
| | JUDITH WHITE | Cole Information Services |
| | KARLA PEREZ | Cole Information Services |
| | MARIA SAUCEDO | Cole Information Services |
| | NOE PAREDES | Cole Information Services |
| | DENNIS HALL | Cole Information Services |
| | CAMERON BROWN | Cole Information Services |
| | STEPHANIE ALVAREZ | Cole Information Services |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 2014 | ROBERT KAVANAGH | Cole Information Services |
| 2009 | JUDITH WHITE | Cole Information Services |
| | JUAN ROMERO | Cole Information Services |
| | CHRIS SELLAROLE | Cole Information Services |
| | ANDY BJORNSON | Cole Information Services |
| | NOE PAREDES | Cole Information Services |
| | SARAH PAQUETTE | Cole Information Services |
| | AESCHLIMAN CLAUDIA | Cole Information Services |
| | STEVEN DIAZ | Cole Information Services |
| | JUDITH WHITE | Cole Information Services |
| | JUAN ROMERO | Cole Information Services |
| | CHRIS SELLAROLE | Cole Information Services |
| | ANDY BJORNSON | Cole Information Services |
| | NOE PAREDES | Cole Information Services |
| | SARAH PAQUETTE | Cole Information Services |
| | AESCHLIMAN CLAUDIA | Cole Information Services |
| | STEVEN DIAZ | Cole Information Services |
| 2004 | CARL NIELSEN | Cole Information Services |
| | MARK MAYNARD | Cole Information Services |
| | JOSEPH GEPHART | Cole Information Services |
| | VILMA NG | Cole Information Services |
| | PAUL BJORNSON | Cole Information Services |
| | CAROL KING | Cole Information Services |
| | CHRISTOPHER SELLAROLE | Cole Information Services |
| | CARY JORDAN | Cole Information Services |
| | JUDITH WHITE | Cole Information Services |
| | MARK MAYNARD | Cole Information Services |
| | CARL NIELSEN | Cole Information Services |
| | VILMA NG | Cole Information Services |
| | JOSEPH GEPHART | Cole Information Services |
| | PAUL BJORNSON | Cole Information Services |
| | CAROL KING | Cole Information Services |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 2004 | CHRISTOPHER SELLAROLE | Cole Information Services |
| | CARY JORDAN | Cole Information Services |
| | JUDITH WHITE | Cole Information Services |
| 2002 | APARTMENTS | SBC PACIFIC BELL |
| | Nielsen Gina M | SBC PACIFIC BELL |
| | Abrenica Rogelio M | SBC PACIFIC BELL |
| | Hickam Kevin S & Stacy R | SBC PACIFIC BELL |
| 1999 | AESCHLIMAN CLAUDIA | Cole Information Services |
| | JUDITH WHITE | Cole Information Services |
| | CHRIS SELLAROLE | Cole Information Services |
| | ANDY BJORNSON | Cole Information Services |
| | NOE PAREDES | Cole Information Services |
| | SARAH PAQUETTE | Cole Information Services |
| | STEVEN DIAZ | Cole Information Services |
| | JUAN ROMERO | Cole Information Services |
| | AESCHLIMAN CLAUDIA | Cole Information Services |
| | JUDITH WHITE | Cole Information Services |
| | CHRIS SELLAROLE | Cole Information Services |
| | ANDY BJORNSON | Cole Information Services |
| | NOE PAREDES | Cole Information Services |
| | SARAH PAQUETTE | Cole Information Services |
| | STEVEN DIAZ | Cole Information Services |
| | JUAN ROMERO | Cole Information Services |
| 1996 | Morris Walter E | Pacific Bell |
| | Stoner Barbara | Pacific Bell |
| 1994 | MARESCA, JAMES J | Cole Information Services |
| | MARESCA, JAMES J | Cole Information Services |
| 1993 | Morris Walter E | Pacific Bell |
| | Moore Ronald L DDS | Pacific Bell |
| | Callinan Christopher | Pacific Bell |

# FINDINGS

**1880 BAYWOOD DR**

| *Year* | *Uses* | *Source* |
|---|---|---|
| 2017 | BERNADETTE ALCANTARA | Cole Information Services |
| | TOM MACIAS | Cole Information Services |
| | DORIS CHIANG | Cole Information Services |
| | CANDICE SNINE | Cole Information Services |
| | ERIKA OROZCO | Cole Information Services |
| | BLANCA TAPIA | Cole Information Services |
| | KEVIN FOREMAN | Cole Information Services |
| | JESSICA BETANCOURT | Cole Information Services |
| | JONATHAN JOHNSON | Cole Information Services |
| | VANESSA NORTON | Cole Information Services |
| | HYUN BOK | Cole Information Services |
| | OSCAR CAMPOS | Cole Information Services |
| | BERNADETTE ALCANTARA | Cole Information Services |
| | TOM MACIAS | Cole Information Services |
| | DORIS CHIANG | Cole Information Services |
| | CANDICE SNINE | Cole Information Services |
| | ERIKA OROZCO | Cole Information Services |
| | BLANCA TAPIA | Cole Information Services |
| | KEVIN FOREMAN | Cole Information Services |
| | JESSICA BETANCOURT | Cole Information Services |
| | JONATHAN JOHNSON | Cole Information Services |
| | VANESSA NORTON | Cole Information Services |
| | HYUN BOK | Cole Information Services |
| | OSCAR CAMPOS | Cole Information Services |
| 2014 | DORIS CHIANG | Cole Information Services |
| | NANCY ALVARADO | Cole Information Services |
| | ROBERT EHRHARDT | Cole Information Services |
| | LOUIS CAPPELLO | Cole Information Services |
| | RON PHILLIPS | Cole Information Services |
| | OSCAR CAMPOS | Cole Information Services |
| | JOSEF MCPHERSON | Cole Information Services |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 2014 | JORGE RAMOS | Cole Information Services |
| | HYUN BOK | Cole Information Services |
| | TIFFANY EMERY | Cole Information Services |
| | DONALD COLEMAN | Cole Information Services |
| | JONATHAN JOHNSON | Cole Information Services |
| | VERONICA LEE | Cole Information Services |
| | DORIS CHIANG | Cole Information Services |
| | NANCY ALVARADO | Cole Information Services |
| | ROBERT EHRHARDT | Cole Information Services |
| | LOUIS CAPPELLO | Cole Information Services |
| | JONATHAN JOHNSON | Cole Information Services |
| | DONALD COLEMAN | Cole Information Services |
| | JOSEF MCPHERSON | Cole Information Services |
| | JORGE RAMOS | Cole Information Services |
| | HYUN BOK | Cole Information Services |
| | TIFFANY EMERY | Cole Information Services |
| | OSCAR CAMPOS | Cole Information Services |
| | RON PHILLIPS | Cole Information Services |
| | VERONICA LEE | Cole Information Services |
| 2009 | CASSANDRA CHING | Cole Information Services |
| | HYUN CHANG | Cole Information Services |
| | ROBERT EHRHARDT | Cole Information Services |
| | C MORALES | Cole Information Services |
| | JUAN SILVA | Cole Information Services |
| | RON PHILLIPS | Cole Information Services |
| | BRIGETTE HAWTHORNE | Cole Information Services |
| | RICARDO SOTO | Cole Information Services |
| | RICARDO FLORES | Cole Information Services |
| | HYUN BOK | Cole Information Services |
| | JACQUELYN CAMPBELL | Cole Information Services |
| | DAVID FUOCO | Cole Information Services |
| | JOANNE ORTIZ | Cole Information Services |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 2009 | CASSANDRA CHING | Cole Information Services |
| | HYUN CHANG | Cole Information Services |
| | ROBERT EHRHARDT | Cole Information Services |
| | C MORALES | Cole Information Services |
| | JUAN SILVA | Cole Information Services |
| | RON PHILLIPS | Cole Information Services |
| | BRIGETTE HAWTHORNE | Cole Information Services |
| | RICARDO SOTO | Cole Information Services |
| | RICARDO FLORES | Cole Information Services |
| | HYUN BOK | Cole Information Services |
| | JACQUELYN CAMPBELL | Cole Information Services |
| | DAVID FUOCO | Cole Information Services |
| | JOANNE ORTIZ | Cole Information Services |
| 2004 | TOM MACIAS | Cole Information Services |
| | ROBERT EHRHARDT | Cole Information Services |
| | VASHTI HAWTHORNE | Cole Information Services |
| | RON PHILLIPS | Cole Information Services |
| | ISIDRO LIZARDI | Cole Information Services |
| | DANNY VASQUEZ | Cole Information Services |
| | JOANNE PADGETT | Cole Information Services |
| | TOM MACIAS | Cole Information Services |
| | ROBERT EHRHARDT | Cole Information Services |
| | VASHTI HAWTHORNE | Cole Information Services |
| | RON PHILLIPS | Cole Information Services |
| | ISIDRO LIZARDI | Cole Information Services |
| | DANNY VASQUEZ | Cole Information Services |
| | JOANNE PADGETT | Cole Information Services |
| 2002 | Ehrhardt Robert F | SBC PACIFIC BELL |
| | APARTMENTS | SBC PACIFIC BELL |
| | Macias Tom | SBC PACIFIC BELL |
| 1999 | DAVID FUOCO | Cole Information Services |
| | HYUN BOK | Cole Information Services |

# FINDINGS

| *Year* | *Uses* | *Source* |
|---|---|---|
| 1999 | RICARDO FLORES | Cole Information Services |
| | RICARDO SOTO | Cole Information Services |
| | JOANNE ORTIZ | Cole Information Services |
| | BRIGETTE HAWTHORNE | Cole Information Services |
| | JUAN SILVA | Cole Information Services |
| | C MORALES | Cole Information Services |
| | ROBERT EHRHARDT | Cole Information Services |
| | HYUN CHANG | Cole Information Services |
| | CASSANDRA CHING | Cole Information Services |
| | RON PHILLIPS | Cole Information Services |
| | DAVID FUOCO | Cole Information Services |
| | HYUN BOK | Cole Information Services |
| | RICARDO FLORES | Cole Information Services |
| | RICARDO SOTO | Cole Information Services |
| | JOANNE ORTIZ | Cole Information Services |
| | BRIGETTE HAWTHORNE | Cole Information Services |
| | JUAN SILVA | Cole Information Services |
| | C MORALES | Cole Information Services |
| | ROBERT EHRHARDT | Cole Information Services |
| | HYUN CHANG | Cole Information Services |
| | CASSANDRA CHING | Cole Information Services |
| | RON PHILLIPS | Cole Information Services |
| 1996 | Girton Monique | Pacific Bell |
| | Morris Walter E | Pacific Bell |
| 1994 | LANTZ, JEFF | Cole Information Services |
| | DIXON, JASON | Cole Information Services |
| | CHAMPAGNE, LARRY | Cole Information Services |
| | LANTZ, JEFF | Cole Information Services |
| | DIXON, JASON | Cole Information Services |
| | CHAMPAGNE, LARRY | Cole Information Services |
| 1993 | Dixon John | Pacific Bell |
| | Dixon Jason | Pacific Bell |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 1993 | Champagne Larry | Pacific Bell |

**1881 BAYWOOD DR**

| Year | Uses | Source |
|---|---|---|
| 2017 | PATRICIA TINJACA | Cole Information Services |
| | DEVIN BRADBURY | Cole Information Services |
| | JASMINE MATTISON | Cole Information Services |
| | BENJAMIN KESHAI | Cole Information Services |
| | PRASADRAO KASTURI | Cole Information Services |
| | ABDALA PASCALE | Cole Information Services |
| | DANIEL DAVIS | Cole Information Services |
| | TEVITA SULIAFU | Cole Information Services |
| | PATRICIA TINJACA | Cole Information Services |
| | DEVIN BRADBURY | Cole Information Services |
| | JASMINE MATTISON | Cole Information Services |
| | BENJAMIN KESHAI | Cole Information Services |
| | PRASADRAO KASTURI | Cole Information Services |
| | ABDALA PASCALE | Cole Information Services |
| | DANIEL DAVIS | Cole Information Services |
| | TEVITA SULIAFU | Cole Information Services |
| 2014 | PRASAD KASTURI | Cole Information Services |
| | GAN HORNGSEN | Cole Information Services |
| | AMANDA SMITH | Cole Information Services |
| | ZAKIA AHMED | Cole Information Services |
| | CHRISTINA YAZIGI | Cole Information Services |
| | BRIAN SQUIRS | Cole Information Services |
| | PRASAD KASTURI | Cole Information Services |
| | GAN HORNGSEN | Cole Information Services |
| | AMANDA SMITH | Cole Information Services |
| | ZAKIA AHMED | Cole Information Services |
| | CHRISTINA YAZIGI | Cole Information Services |
| | BRIAN SQUIRS | Cole Information Services |
| 2009 | JOSE GONZALEZ | Cole Information Services |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 2009 | JULIE BECK | Cole Information Services |
| | MARCELA RAMIREZ | Cole Information Services |
| | SHAMIKKI LUCAS | Cole Information Services |
| | MARK IANNUZZO | Cole Information Services |
| | SEUNG BAEG | Cole Information Services |
| | MASROOR IMAN | Cole Information Services |
| | JOSE BASURTO | Cole Information Services |
| | JOSE GONZALEZ | Cole Information Services |
| | JULIE BECK | Cole Information Services |
| | MARCELA RAMIREZ | Cole Information Services |
| | SHAMIKKI LUCAS | Cole Information Services |
| | MARK IANNUZZO | Cole Information Services |
| | SEUNG BAEG | Cole Information Services |
| | MASROOR IMAN | Cole Information Services |
| | JOSE BASURTO | Cole Information Services |
| 2004 | PATRICIA BOGEMA | Cole Information Services |
| | MARIA HERNANDEZ | Cole Information Services |
| | TINA LOVELADY | Cole Information Services |
| | ALEX JONES | Cole Information Services |
| | AMADOR BATTAD | Cole Information Services |
| | KIMBERLY SESSION | Cole Information Services |
| | BATTAD AMADOR | Cole Information Services |
| | ANDREA WOOD | Cole Information Services |
| | SEAN COPE | Cole Information Services |
| | WILLIAM MOORE | Cole Information Services |
| | ORANGE CHROME CLOTHING | Cole Information Services |
| | PATRICIA BOGEMA | Cole Information Services |
| | MARIA HERNANDEZ | Cole Information Services |
| | TINA LOVELADY | Cole Information Services |
| | ALEX JONES | Cole Information Services |
| | AMADOR BATTAD | Cole Information Services |
| | KIMBERLY SESSION | Cole Information Services |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 2004 | BATTAD AMADOR | Cole Information Services |
| | ANDREA WOOD | Cole Information Services |
| | SEAN COPE | Cole Information Services |
| | WILLIAM MOORE | Cole Information Services |
| | ORANGE CHROME CLOTHING | Cole Information Services |
| 2002 | APARTMENTS | SBC PACIFIC BELL |
| | Taylor David L II | SBC PACIFIC BELL |
| | Bogema Alicia | SBC PACIFIC BELL |
| | Battad Amador | SBC PACIFIC BELL |
| 1999 | MARK IANNUZZO | Cole Information Services |
| | SHAMIKKI LUCAS | Cole Information Services |
| | JOSE GONZALEZ | Cole Information Services |
| | JULIE BECK | Cole Information Services |
| | JOSE BASURTO | Cole Information Services |
| | MARCELA RAMIREZ | Cole Information Services |
| | MASROOR IMAN | Cole Information Services |
| | SEUNG BAEG | Cole Information Services |
| | MARK IANNUZZO | Cole Information Services |
| | SHAMIKKI LUCAS | Cole Information Services |
| | JULIE BECK | Cole Information Services |
| | JOSE GONZALEZ | Cole Information Services |
| | JOSE BASURTO | Cole Information Services |
| | MARCELA RAMIREZ | Cole Information Services |
| | MASROOR IMAN | Cole Information Services |
| | SEUNG BAEG | Cole Information Services |
| 1994 | OBYRNE, JASON | Cole Information Services |
| | GARCIA, JULIO C | Cole Information Services |
| | OBYRNE, JASON | Cole Information Services |
| | GARCIA, JULIO C | Cole Information Services |
| 1993 | Garcia Julio C | Pacific Bell |
| | Garcia L | Pacific Bell |
| | Garcia M | Pacific Bell |

| Year | Uses | Source |
|---|---|---|
| 1993 | Havik Wo lfe J | Pacific Bell |
| | Haviland Jon | Pacific Bell |
| | Haw Dw ayne | Pacific Bell |
| | Haw aiian Airlines | Pacific Bell |
| | Maupin Don | Pacific Bell |
| | Wolfe J | Pacific Bell |
| | Wolfe J Carter III | Pacific Bell |
| | Wolfe L & K | Pacific Bell |

## BAYWOOD DR E

**1101 BAYWOOD DR E**

| Year | Uses | Source |
|---|---|---|
| 2002 | APARTMENTS | SBC PACIFIC BELL |
| | Consaul Dorothy & Kenneth | SBC PACIFIC BELL |
| 1990 | Hilt Byron | Pacific Bell |
| | Jones Todd B | Pacific Bell |
| | Brierley Darryl | Pacific Bell |

**1121 BAYWOOD DR E**

| Year | Uses | Source |
|---|---|---|
| 2002 | Dale C | SBC PACIFIC BELL |
| | Brandriff Walter | SBC PACIFIC BELL |
| | Weisner Larry | SBC PACIFIC BELL |
| | Fisher Susan C | SBC PACIFIC BELL |
| | APARTMENTS | SBC PACIFIC BELL |
| | Kaw elmacher Travis | SBC PACIFIC BELL |
| 1990 | Gautreaux Webblee | Pacific Bell |
| | Hays Bill | Pacific Bell |
| | Gaffney Bill | Pacific Bell |

**1141 BAYWOOD DR E**

| Year | Uses | Source |
|---|---|---|
| 1996 | Girton Monique | Pacific Bell |
| | Beltran Soon Sun | Pacific Bell |

| Year | Uses | Source |
|---|---|---|
| 1990 | Knapp Richard | Pacific Bell |
| | Trovato Roger III | Pacific Bell |

**1161 BAYWOOD DR E**

| Year | Uses | Source |
|---|---|---|
| 2002 | Milazzo John A | SBC PACIFIC BELL |
| | Ernster John | SBC PACIFIC BELL |
| | Unciano Richard | SBC PACIFIC BELL |
| | Kazaroff Pan Sun | SBC PACIFIC BELL |
| | Wright Teal | SBC PACIFIC BELL |
| | APARTMENTS | SBC PACIFIC BELL |
| | Mc Mullen Christina | SBC PACIFIC BELL |
| 1990 | Van De Bogert Stephen | Pacific Bell |
| | Gerster D | Pacific Bell |
| | Deal D | Pacific Bell |

**1171 BAYWOOD DR E**

| Year | Uses | Source |
|---|---|---|
| 2002 | BAYWOOD VILLA | SBC PACIFIC BELL |
| | BAYWOOD VILLA | SBC PACIFIC BELL |
| 1996 | BAYWOOD VILLA APARTMENTS | Pacific Bell |
| 1990 | BAYWOOD VILLA APARTMENTS | Pacific Bell |

**1880 BAYWOOD DR E**

| Year | Uses | Source |
|---|---|---|
| 1996 | Girton Monique | Pacific Bell |

## Baywood Drive

**1849 Baywood Drive**

| Year | Uses | Source |
|---|---|---|
| 2002 | APARTMENTS | SBC PACIFIC BELL |
| | Sikkenga Kevin | SBC PACIFIC BELL |
| | Sanchez Jeremy | SBC PACIFIC BELL |
| | Warren Kirk | SBC PACIFIC BELL |

| Year | Uses | Source |
|---|---|---|
| 2002 | Herring Andrew | SBC PACIFIC BELL |
| 1996 | Lee Dae Kun | Pacific Bell |
| | Bruner Jim | Pacific Bell |
| 1993 | Valenzuela Mario | Pacific Bell |

## BAYWOODS DR

**1873 BAYWOODS DR**

| Year | Uses | Source |
|---|---|---|
| 1993 | Bogardus Brent | Pacific Bell |
| | Bogdan NT | Pacific Bell |

## FULLERTON AVE

**1810 FULLERTON AVE**

| Year | Uses | Source |
|---|---|---|
| 2017 | CG CORONA MEDICAL LP | Cole Information Services |
| | CORONA ENDODONTIC GROUP | Cole Information Services |
| | BRETT BOWMAN OD | Cole Information Services |
| | JESSICA BASA MD | Cole Information Services |
| | RASHEED SIMJEE DMD | Cole Information Services |
| | SIMJEE RASHEED PROFESSIONAL DENTAL C | Cole Information Services |
| | MICHAEL BALUYUT MD | Cole Information Services |
| | COOL SMILES ORTHODONTICS | Cole Information Services |
| | INLAND VALLEY RETINA MEDICAL ASSOCIA | Cole Information Services |
| | JONG GRANT DMD | Cole Information Services |
| | RIVERWALK MEDICAL & WELLNESS | Cole Information Services |
| | YUAN JUN MD INC | Cole Information Services |
| | AMERICAN SPINE | Cole Information Services |
| 2014 | GRANT JONG | Cole Information Services |
| | YUAN JUN MD INC | Cole Information Services |
| | MICHAEL BALUYUT | Cole Information Services |
| | SIMJEE RASHEED DMD | Cole Information Services |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 2014 | KANE S ALLAN MD | Cole Information Services |
| | BALUYUT MICHAEL MD | Cole Information Services |
| | BOWMAN BRETT OD | Cole Information Services |
| | CG CORONA MEDICAL LP | Cole Information Services |
| | CORONA ENDODONTIC GROUP | Cole Information Services |
| | AESTHETICARE COSMETIC SURGERY INSTIT | Cole Information Services |
| | MMJ MEDICAL | Cole Information Services |
| | KRYSTAL GROVERS MEDICAL SKINCARE | Cole Information Services |
| | BASA JESSICA MD | Cole Information Services |
| | COOL SMILES ORTHODONTICS | Cole Information Services |
| | INLAND VALLEY RETINA MEDICAL ASSOCIA | Cole Information Services |
| | JONG GRANT DMD | Cole Information Services |
| | BRETT BOWMAN | Cole Information Services |
| 2009 | RASHEED SIMJEE | Cole Information Services |
| | FAMILY HEALTH CARE OF CORONA | Cole Information Services |
| | D R OPTOMETRY | Cole Information Services |
| | INLAND VALLEY RETINA | Cole Information Services |
| | BACK PAIN RELIEF CENTERS | Cole Information Services |
| | JONG GRANT DMD | Cole Information Services |
| | CORONA INSTITUTE FOR REPRODUCTIVE ME | Cole Information Services |
| | SIMJEE ORTHODONTICS | Cole Information Services |
| | HUNDLEY LAWRENCE B JR DDS JD | Cole Information Services |
| | LEDESMA GLENN NEIL MD | Cole Information Services |
| | CORONA DERMATOLOGY CENTER | Cole Information Services |
| 1999 | RASHEED SIMJEE | Cole Information Services |

**1980 FULLERTON AVE**

| Year | Uses | Source |
|---|---|---|
| 2017 | CORONANORCO UNIFIED SCHOOL DISTRICT | Cole Information Services |
| 2014 | STALLINGS ELEMENTARY SCHOOL | Cole Information Services |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 2014 | CORONANORCO UNIFIED SCHOOL DISTRICT | Cole Information Services |
| 2009 | CORONA NORCO UNIFIED SCHOOL DISTRICT | Cole Information Services |
| | STALLINGS ELEMENTARY SCHOOL | Cole Information Services |
| 2004 | STALLINGS ELEMENTARY | Cole Information Services |
| 1999 | CORONA-NORCO UNIFIED SCHOOL DISTRICT ELEM SCHOOLS GRDE | Cole Information Services |
| | STALLINGS ELEMENTARY SCHOOL | Cole Information Services |
| 1994 | STALLINGS ELEMENTARY SCHOOL | Cole Information Services |

## Fullerton Avenue

**1980 Fullerton Avenue**

| Year | Uses | Source |
|---|---|---|
| 2001 | CORONASC | Haines & Company, Inc. |
| | STALUNGS STALLINGS | Haines & Company, Inc. |
| | ELEMENTARYSCHOOL | Haines & Company, Inc. |
| 1993 | Stallings Elementary | Pacific Bell |
| | Stallings Elementary School | Pacific Bell |
| | Stallings John & Dina | Pacific Bell |
| 1981 | Stallings Elementary | Pacific Telephone |
| 1977 | Stallings Elementary | Pacific Telephone |

## HARVARD CIR

**2101 HARVARD CIR**

| Year | Uses | Source |
|---|---|---|
| 2014 | LAURA WOODS | Cole Information Services |
| | LAURA WOODS | Cole Information Services |
| 2009 | RICHARD ROBINSON | Cole Information Services |
| | RICHARD ROBINSON | Cole Information Services |
| 2004 | RICHARD ROBINSON | Cole Information Services |
| | RICHARD ROBINSON | Cole Information Services |
| 1999 | RICHARD ROBINSON | Cole Information Services |
| | RICHARD ROBINSON | Cole Information Services |

| Year | Uses | Source |
|---|---|---|
| 1994 | ARL SAFETY SUPPLY CO | Cole Information Services |
| | ARL SAFETY SUPPLY CO | Cole Information Services |
| 1993 | A S A P Lock & Safe | Pacific Bell |
| | ARRESItnc | Pacific Bell |
| | ARL Safety Supply Co | Pacific Bell |
| | Baw aney Shabbir & Amina S | Pacific Bell |
| | ASAP Payroll Services @Corona@ | Pacific Bell |
| 1990 | Baw aney Shabbir & Amina S | Pacific Bell |

**2103 HARVARD CIR**

| Year | Uses | Source |
|---|---|---|
| 2017 | GHAYTH ADHAMI | Cole Information Services |
| | GHAYTH ADHAMI | Cole Information Services |
| 2014 | MUNEER ADHAMI | Cole Information Services |
| | MUNEER ADHAMI | Cole Information Services |
| 2009 | RIAD ADHAMI | Cole Information Services |
| | AL MANARA SCHOOL | Cole Information Services |
| | RIAD ADHAMI | Cole Information Services |
| | AL MANARA SCHOOL | Cole Information Services |
| 2004 | RIAD ADHAMI | Cole Information Services |
| | AL MANARA SCHOOL | Cole Information Services |
| | RIAD ADHAMI | Cole Information Services |
| | AL MANARA SCHOOL | Cole Information Services |
| 2002 | Adhami Riad | SBC PACIFIC BELL |
| 1999 | RIAD ADHAMI | Cole Information Services |
| | RIAD ADHAMI | Cole Information Services |
| 1996 | Adhami Riad | Pacific Bell |
| 1994 | ADHAMI, RIAD | Cole Information Services |
| | ADHAMI, RIAD | Cole Information Services |
| 1993 | Adhami Riad | Pacific Bell |
| 1990 | Adhami Riad | Pacific Bell |

# FINDINGS

**2108 HARVARD CIR**

| *Year* | *Uses* | *Source* |
|---|---|---|
| 2014 | OCCUPANT UNKNOWN | Cole Information Services |
| | OCCUPANT UNKNOWN | Cole Information Services |
| 2009 | NANCY LOPEZ | Cole Information Services |
| | NANCY LOPEZ | Cole Information Services |
| 2004 | JESSICA HOSINO | Cole Information Services |
| | JESSICA HOSINO | Cole Information Services |
| 1999 | NANCY LOPEZ | Cole Information Services |
| | NANCY LOPEZ | Cole Information Services |
| 1990 | Wang Chao Hsiang | Pacific Bell |

## HARVARD CT

**2101 HARVARD CT**

| *Year* | *Uses* | *Source* |
|---|---|---|
| 2001 | BAWANEY Shabbir | Haines & Company, Inc. |

**2103 HARVARD CT**

| *Year* | *Uses* | *Source* |
|---|---|---|
| 2001 | ADHAM | Haines & Company, Inc. |

**2108 HARVARD CT**

| *Year* | *Uses* | *Source* |
|---|---|---|
| 2001 | WANGChao | Haines & Company, Inc. |

## HIDEAWAY PL

**1515 HIDEAWAY PL**

| *Year* | *Uses* | *Source* |
|---|---|---|
| 1996 | Mitchell Edw J | Pacific Bell |

**1801 HIDEAWAY PL**

| *Year* | *Uses* | *Source* |
|---|---|---|
| 2017 | MYESHA MCMULLEN | Cole Information Services |
| | ERIC SCHENK | Cole Information Services |
| | CHARLES EDWARDS | Cole Information Services |

# FINDINGS

| *Year* | *Uses* | *Source* |
|---|---|---|
| 2017 | BRITNI KAY | Cole Information Services |
| | CARSHENA TRONNES | Cole Information Services |
| | NOREEN MCCONICO | Cole Information Services |
| | VERONICA CHAVARIN | Cole Information Services |
| | PATRICIA HARRIS | Cole Information Services |
| | DONNA LOWI-TENG | Cole Information Services |
| | CHRISTINE DAYTON | Cole Information Services |
| | PATRICK BOYLE | Cole Information Services |
| | BRUCE BLAHA | Cole Information Services |
| | MYESHA MCMULLEN | Cole Information Services |
| | ERIC SCHENK | Cole Information Services |
| | CHARLES EDWARDS | Cole Information Services |
| | BRITNI KAY | Cole Information Services |
| | CARSHENA TRONNES | Cole Information Services |
| | NOREEN MCCONICO | Cole Information Services |
| | VERONICA CHAVARIN | Cole Information Services |
| | PATRICIA HARRIS | Cole Information Services |
| | DONNA LOWI-TENG | Cole Information Services |
| | CHRISTINE DAYTON | Cole Information Services |
| | PATRICK BOYLE | Cole Information Services |
| | BRUCE BLAHA | Cole Information Services |
| 2014 | KADESH GAYLE | Cole Information Services |
| | CARSHENA TRONNES | Cole Information Services |
| | ERIC SCHENK | Cole Information Services |
| | PATRICIA HARRIS | Cole Information Services |
| | MONIK CARBAJAL | Cole Information Services |
| | ELIZABETH SIBUS | Cole Information Services |
| | SANDRA XATRUCH | Cole Information Services |
| | ANGELA VANGORKUM | Cole Information Services |
| | KADESH GAYLE | Cole Information Services |
| | CARSHENA TRONNES | Cole Information Services |
| | ERIC SCHENK | Cole Information Services |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 2014 | PATRICIA HARRIS | Cole Information Services |
| | MONIK CARBAJAL | Cole Information Services |
| | ELIZABETH SIBUS | Cole Information Services |
| | SANDRA XATRUCH | Cole Information Services |
| | ANGELA VANGORKUM | Cole Information Services |
| 2009 | ASHLEY WOODS | Cole Information Services |
| | JAMIE NEGRETE | Cole Information Services |
| | ANGELA VANGORKUM | Cole Information Services |
| | ANA HERNANDEZ | Cole Information Services |
| | ELIZABETH SIBUS | Cole Information Services |
| | ASHLEY WOODS | Cole Information Services |
| | JAMIE NEGRETE | Cole Information Services |
| | ANGELA VANGORKUM | Cole Information Services |
| | ANA HERNANDEZ | Cole Information Services |
| | ELIZABETH SIBUS | Cole Information Services |
| 2004 | J AMAYA | Cole Information Services |
| | FELIX LEBRON | Cole Information Services |
| | RONALD MOORE | Cole Information Services |
| | IVAN VERDEHYOU | Cole Information Services |
| | JOHN MARTINEZ | Cole Information Services |
| | ALEXANDER GARCIA | Cole Information Services |
| | J AMAYA | Cole Information Services |
| | FELIX LEBRON | Cole Information Services |
| | RONALD MOORE | Cole Information Services |
| | IVAN VERDEHYOU | Cole Information Services |
| | JOHN MARTINEZ | Cole Information Services |
| | ALEXANDER GARCIA | Cole Information Services |
| 2002 | Hatcher Joel | SBC PACIFIC BELL |
| | Lee Hung Gyo | SBC PACIFIC BELL |
| | Clough Jack | SBC PACIFIC BELL |
| | APARTMENTS | SBC PACIFIC BELL |
| | Brinkley Ebony | SBC PACIFIC BELL |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 2002 | Verdehyou Ivan | SBC PACIFIC BELL |
| 2001 | LEE Hung Gyo | Haines & Company, Inc. |
| | MATEOS Miguel A | Haines & Company, Inc. |
| | VERDEHYOU Ivan | Haines & Company, Inc. |
| | OSTU TAEKWONDO | Haines & Company, Inc. |
| 1999 | ELIZABETH SIBUS | Cole Information Services |
| | ANA HERNANDEZ | Cole Information Services |
| | ANGELA VANGORKUM | Cole Information Services |
| | JAMIE NEGRETE | Cole Information Services |
| | ASHLEY WOODS | Cole Information Services |
| | ELIZABETH SIBUS | Cole Information Services |
| | ANA HERNANDEZ | Cole Information Services |
| | ANGELA VANGORKUM | Cole Information Services |
| | JAMIE NEGRETE | Cole Information Services |
| | ASHLEY WOODS | Cole Information Services |
| 1996 | Mitchell Edw J | Pacific Bell |
| | Camarena M | Pacific Bell |
| 1993 | Nicolle Wagner Rachelle & Bryan | Pacific Bell |
| | Nicoletti N | Pacific Bell |
| | Nicoletti Lisa | Pacific Bell |
| | Hartley Nell M | Pacific Bell |

**1813 HIDEAWAY PL**

| Year | Uses | Source |
|---|---|---|
| 2017 | ANGELA AKERS | Cole Information Services |
| | KRIS MURPHY | Cole Information Services |
| | DANIELA CARON | Cole Information Services |
| | ASHLEY HAACK | Cole Information Services |
| | CATHERINE KING | Cole Information Services |
| | LORI ROBBINS | Cole Information Services |
| | MARTHA SUNIGA | Cole Information Services |
| | STEVE VAZQUEZ | Cole Information Services |
| | COURTNEY MILLER | Cole Information Services |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 2017 | MARICEL ROBLES | Cole Information Services |
| | ERIC KYLE | Cole Information Services |
| | AMANDA DENEND | Cole Information Services |
| | IMELDA HERNANDEZ | Cole Information Services |
| | MELISSA RODRIGUEZ | Cole Information Services |
| | ANGELA AKERS | Cole Information Services |
| | KRIS MURPHY | Cole Information Services |
| | DANIELA CARON | Cole Information Services |
| | ASHLEY HAACK | Cole Information Services |
| | CATHERINE KING | Cole Information Services |
| | LORI ROBBINS | Cole Information Services |
| | MARTHA SUNIGA | Cole Information Services |
| | STEVE VAZQUEZ | Cole Information Services |
| | COURTNEY MILLER | Cole Information Services |
| | MARICEL ROBLES | Cole Information Services |
| | ERIC KYLE | Cole Information Services |
| | AMANDA DENEND | Cole Information Services |
| | IMELDA HERNANDEZ | Cole Information Services |
| | MELISSA RODRIGUEZ | Cole Information Services |
| 2014 | LATOYA BROWN | Cole Information Services |
| | FRANCISCO RAMIREZ | Cole Information Services |
| | CATHERINE KING | Cole Information Services |
| | CRAIG WOODS | Cole Information Services |
| | ANGELA AKERS | Cole Information Services |
| | KEENEESHA MAYBERRY | Cole Information Services |
| | NANCY BANAS | Cole Information Services |
| | EVELYN BOGARIN | Cole Information Services |
| | LATOYA BROWN | Cole Information Services |
| | FRANCISCO RAMIREZ | Cole Information Services |
| | CATHERINE KING | Cole Information Services |
| | CRAIG WOODS | Cole Information Services |
| | ANGELA AKERS | Cole Information Services |

# FINDINGS

| *Year* | *Uses* | *Source* |
|---|---|---|
| 2014 | KEENEESHA MAYBERRY | Cole Information Services |
| | NANCY BANAS | Cole Information Services |
| | EVELYN BOGARIN | Cole Information Services |
| 2009 | JANICE OCONNOR | Cole Information Services |
| | JOE CARTER | Cole Information Services |
| | LINDSEY CARTER | Cole Information Services |
| | MICHAEL MARTINEZ | Cole Information Services |
| | LYDIA NATTABI | Cole Information Services |
| | NANCY BANAS | Cole Information Services |
| | SALLIE GOMEZ | Cole Information Services |
| | ROCHELLE HARPER | Cole Information Services |
| | PENG WANG | Cole Information Services |
| | JANICE OCONNOR | Cole Information Services |
| | LYDIA NATTABI | Cole Information Services |
| | LINDSEY CARTER | Cole Information Services |
| | MICHAEL MARTINEZ | Cole Information Services |
| | JOE CARTER | Cole Information Services |
| | NANCY BANAS | Cole Information Services |
| | SALLIE GOMEZ | Cole Information Services |
| | ROCHELLE HARPER | Cole Information Services |
| | PENG WANG | Cole Information Services |
| 2004 | FITNESS EXPRESS FOR WOMAN | Cole Information Services |
| | JUAN SANDOVAL | Cole Information Services |
| | JESSICA BENNETT | Cole Information Services |
| | NANCY BANAS | Cole Information Services |
| | JOHN FOXCHASE | Cole Information Services |
| | BYEONG AN | Cole Information Services |
| | MELVIN SHARPERSON | Cole Information Services |
| | MITCHELL SWARTHOUT | Cole Information Services |
| | CARLIN THURSTON | Cole Information Services |
| | LINDSEY CARTER | Cole Information Services |
| | MICHELLE CRABTEE | Cole Information Services |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 2004 | DEAN BROWN | Cole Information Services |
| | ROBERT STEPHENSON | Cole Information Services |
| | FITNESS EXPRESS FOR WOMAN | Cole Information Services |
| | JUAN SANDOVAL | Cole Information Services |
| | JESSICA BENNETT | Cole Information Services |
| | NANCY BANAS | Cole Information Services |
| | JOHN FOXCHASE | Cole Information Services |
| | BYEONG AN | Cole Information Services |
| | MELVIN SHARPERSON | Cole Information Services |
| | LINDSEY CARTER | Cole Information Services |
| | MICHELLE CRABTEE | Cole Information Services |
| | MITCHELL SWARTHOUT | Cole Information Services |
| | CARLIN THURSTON | Cole Information Services |
| | DEAN BROWN | Cole Information Services |
| | ROBERT STEPHENSON | Cole Information Services |
| 2002 | Banas Nancy | SBC PACIFIC BELL |
| | Vick Traci | SBC PACIFIC BELL |
| | APARTMENTS | SBC PACIFIC BELL |
| | Homrner Crystal | SBC PACIFIC BELL |
| | Pierce Jr Phillip & Samantha | SBC PACIFIC BELL |
| 2001 | DEINZERJake J | Haines & Company, Inc. |
| | DOULGEROPOULOS | Haines & Company, Inc. |
| | George | Haines & Company, Inc. |
| 1999 | PENG WANG | Cole Information Services |
| | NANCY BANAS | Cole Information Services |
| | SALLIE GOMEZ | Cole Information Services |
| | ROCHELLE HARPER | Cole Information Services |
| | LYDIA NATTABI | Cole Information Services |
| | PENG WANG | Cole Information Services |
| | NANCY BANAS | Cole Information Services |
| | SALLIE GOMEZ | Cole Information Services |
| | ROCHELLE HARPER | Cole Information Services |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 1999 | LYDIA NATTABI | Cole Information Services |
| 1994 | DEMALO, DAN | Cole Information Services |
| | COBURN, JARED W | Cole Information Services |
| | DEMALO, DAN | Cole Information Services |
| | COBURN, JARED W | Cole Information Services |
| 1993 | Russo David F | Pacific Bell |
| | Bailey Barry L | Pacific Bell |

**1825 HIDEAWAY PL**

| Year | Uses | Source |
|---|---|---|
| 2017 | KHYLIA SICOLI | Cole Information Services |
| | GARRETT CHANDLER | Cole Information Services |
| | JOSEPH CHING | Cole Information Services |
| | VERNEAL CEPHUS | Cole Information Services |
| | DUSTYN MAAFI | Cole Information Services |
| | RUDY SCOTT | Cole Information Services |
| | MARIA KEFFLER | Cole Information Services |
| | CYRIL PRICE | Cole Information Services |
| | KHYLIA SICOLI | Cole Information Services |
| | GARRETT CHANDLER | Cole Information Services |
| | JOSEPH CHING | Cole Information Services |
| | VERNEAL CEPHUS | Cole Information Services |
| | DUSTYN MAAFI | Cole Information Services |
| | RUDY SCOTT | Cole Information Services |
| | MARIA KEFFLER | Cole Information Services |
| | CYRIL PRICE | Cole Information Services |
| 2014 | DONNA LOWI-TENG | Cole Information Services |
| | JOSEPH CHING | Cole Information Services |
| | VICTOR OLVERA | Cole Information Services |
| | KHYLIA CHAPIN | Cole Information Services |
| | MARIA KESSLER | Cole Information Services |
| | TENG LOWI | Cole Information Services |
| | RUDY SCOTT | Cole Information Services |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 2014 | RONALD VOGTSBERG | Cole Information Services |
| | DONNA LOWI-TENG | Cole Information Services |
| | JOSEPH CHING | Cole Information Services |
| | VICTOR OLVERA | Cole Information Services |
| | KHYLIA CHAPIN | Cole Information Services |
| | MARIA KESSLER | Cole Information Services |
| | TENG LOWI | Cole Information Services |
| | RUDY SCOTT | Cole Information Services |
| | RONALD VOGTSBERG | Cole Information Services |
| 2009 | A MAGANA | Cole Information Services |
| | GRACIELA GUTIERREZ-HERNA | Cole Information Services |
| | LOUIS CHING | Cole Information Services |
| | JONG KIM | Cole Information Services |
| | S GALINDO | Cole Information Services |
| | SAID KHALIL | Cole Information Services |
| | MARIA ORNELAS | Cole Information Services |
| | A MAGANA | Cole Information Services |
| | GRACIELA GUTIERREZ-HERNA | Cole Information Services |
| | LOUIS CHING | Cole Information Services |
| | JONG KIM | Cole Information Services |
| | S GALINDO | Cole Information Services |
| | SAID KHALIL | Cole Information Services |
| | MARIA ORNELAS | Cole Information Services |
| 2004 | KEVIN WINES | Cole Information Services |
| | LINDA CHAU | Cole Information Services |
| | JASON BODA | Cole Information Services |
| | WILLIAM CONNER | Cole Information Services |
| | DENISE CARDENAS | Cole Information Services |
| | RAHIM MAAFI | Cole Information Services |
| | SHEPARD TAMLIN | Cole Information Services |
| | LISA DARLING | Cole Information Services |
| | JAMES CALVER | Cole Information Services |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 2004 | S GALINDO | Cole Information Services |
| | KEVIN WINES | Cole Information Services |
| | LINDA CHAU | Cole Information Services |
| | WILLIAM CONNER | Cole Information Services |
| | JASON BODA | Cole Information Services |
| | DENISE CARDENAS | Cole Information Services |
| | RAHIM MAAFI | Cole Information Services |
| | SHEPARD TAMLIN | Cole Information Services |
| | LISA DARLING | Cole Information Services |
| | S GALINDO | Cole Information Services |
| | JAMES CALVER | Cole Information Services |
| 2002 | Wines Kevin | SBC PACIFIC BELL |
| | Maafi Dale | SBC PACIFIC BELL |
| | APARTMENTS | SBC PACIFIC BELL |
| 2001 | HAYNES Paula Y | Haines & Company, Inc. |
| 1999 | S GALINDO | Cole Information Services |
| | SAID KHALIL | Cole Information Services |
| | MARIA ORNELAS | Cole Information Services |
| | JONG KIM | Cole Information Services |
| | GRACIELA GUTIERREZ-HERNA | Cole Information Services |
| | LOUIS CHING | Cole Information Services |
| | S GALINDO | Cole Information Services |
| | SAID KHALIL | Cole Information Services |
| | MARIA ORNELAS | Cole Information Services |
| | JONG KIM | Cole Information Services |
| | GRACIELA GUTIERREZ-HERNA | Cole Information Services |
| | LOUIS CHING | Cole Information Services |
| 1996 | Rico Cruz Maria & Jorge | Pacific Bell |
| | Camarena M | Pacific Bell |
| 1993 | Singer Douglas & Tracy | Pacific Bell |

# FINDINGS

**1837 HIDEAWAY PL**

| *Year* | *Uses* | *Source* |
|---|---|---|
| 2017 | BRIA PYE | Cole Information Services |
| | VIKASHNI SHARMA | Cole Information Services |
| | ADRIANA RAMIREZ | Cole Information Services |
| | INNA PEREZ | Cole Information Services |
| | B SALGADO | Cole Information Services |
| | DANNY CHO | Cole Information Services |
| | FNU BILAL | Cole Information Services |
| | ANNA LILES | Cole Information Services |
| | KYESHA HOY | Cole Information Services |
| | MICHELE FLORES | Cole Information Services |
| | PATRICIA JAKANA | Cole Information Services |
| | BRIA PYE | Cole Information Services |
| | VIKASHNI SHARMA | Cole Information Services |
| | ADRIANA RAMIREZ | Cole Information Services |
| | INNA PEREZ | Cole Information Services |
| | B SALGADO | Cole Information Services |
| | DANNY CHO | Cole Information Services |
| | FNU BILAL | Cole Information Services |
| | ANNA LILES | Cole Information Services |
| | KYESHA HOY | Cole Information Services |
| | MICHELE FLORES | Cole Information Services |
| | PATRICIA JAKANA | Cole Information Services |
| 2014 | BRAD JACKSON | Cole Information Services |
| | NICK LILES | Cole Information Services |
| | BRANDON CLARK | Cole Information Services |
| | DESIREE MANARD | Cole Information Services |
| | JUAN MARTINEZ | Cole Information Services |
| | WILLIAM HOLMES | Cole Information Services |
| | SHEREE TUCKER | Cole Information Services |
| | DEBRA GATES | Cole Information Services |
| | JOHN RISKUS | Cole Information Services |

# FINDINGS

| *Year* | *Uses* | *Source* |
|---|---|---|
| 2014 | ALICIA ALVAREZ | Cole Information Services |
| | BRIA PYE | Cole Information Services |
| | BRAD JACKSON | Cole Information Services |
| | NICK LILES | Cole Information Services |
| | BRANDON CLARK | Cole Information Services |
| | DESIREE MANARD | Cole Information Services |
| | JUAN MARTINEZ | Cole Information Services |
| | WILLIAM HOLMES | Cole Information Services |
| | DEBRA GATES | Cole Information Services |
| | SHEREE TUCKER | Cole Information Services |
| | JOHN RISKUS | Cole Information Services |
| | ALICIA ALVAREZ | Cole Information Services |
| | BRIA PYE | Cole Information Services |
| 2009 | WINNING IMAGE | Cole Information Services |
| | DONNY ORTIZ | Cole Information Services |
| | MICHAEL HANASHIRO | Cole Information Services |
| | JULIE LINDSAY | Cole Information Services |
| | RUBEN BALTIERRA | Cole Information Services |
| | DEBRA GATES | Cole Information Services |
| | MECAN NELSON | Cole Information Services |
| | SIRENA GRANT | Cole Information Services |
| | WINNING IMAGE | Cole Information Services |
| | DONNY ORTIZ | Cole Information Services |
| | MICHAEL HANASHIRO | Cole Information Services |
| | JULIE LINDSAY | Cole Information Services |
| | RUBEN BALTIERRA | Cole Information Services |
| | DEBRA GATES | Cole Information Services |
| | MECAN NELSON | Cole Information Services |
| | SIRENA GRANT | Cole Information Services |
| 2004 | WORLD INTERNET SYS RESOURCES | Cole Information Services |
| | ROGER LINDSAY | Cole Information Services |
| | NEXLIGHTS CORP | Cole Information Services |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 2004 | MARY CARTER | Cole Information Services |
| | NICHOLAS GOODNER | Cole Information Services |
| | JESSICA JONES-BUSSE | Cole Information Services |
| | DEBBIE VALENCIA | Cole Information Services |
| | BALBAR SINGH | Cole Information Services |
| | JIN BAE | Cole Information Services |
| | JAMES BUSSE | Cole Information Services |
| | YEON CHU | Cole Information Services |
| | DENNIS LOVENBURG | Cole Information Services |
| | BONITA GILBERT | Cole Information Services |
| | CLYDE SPARKS | Cole Information Services |
| | THOMAS STEVENSON | Cole Information Services |
| | SHEILA HILLIGOSS | Cole Information Services |
| | RAJBIR KAUR | Cole Information Services |
| | WORLD INTERNET SYS RESOURCES | Cole Information Services |
| | ROGER LINDSAY | Cole Information Services |
| | NEXLIGHTS CORP | Cole Information Services |
| | MARY CARTER | Cole Information Services |
| | NICHOLAS GOODNER | Cole Information Services |
| | JESSICA JONES-BUSSE | Cole Information Services |
| | DEBBIE VALENCIA | Cole Information Services |
| | BALBAR SINGH | Cole Information Services |
| | JIN BAE | Cole Information Services |
| | JAMES BUSSE | Cole Information Services |
| | YEON CHU | Cole Information Services |
| | DENNIS LOVENBURG | Cole Information Services |
| | BONITA GILBERT | Cole Information Services |
| | CLYDE SPARKS | Cole Information Services |
| | THOMAS STEVENSON | Cole Information Services |
| | SHEILA HILLIGOSS | Cole Information Services |
| | RAJBIR KAUR | Cole Information Services |
| 2002 | Conway Estella | SBC PACIFIC BELL |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 2002 | APARTMENTS | SBC PACIFIC BELL |
| | Carter Mary B | SBC PACIFIC BELL |
| | Anderson Larry | SBC PACIFIC BELL |
| | HIDEAWAY PL | SBC PACIFIC BELL |
| | Contd | SBC PACIFIC BELL |
| | Thiel Mark | SBC PACIFIC BELL |
| 2001 | MONTELONG Edward J | Haines & Company, Inc. |
| 1999 | SIRENA GRANT | Cole Information Services |
| | JULIE LINDSAY | Cole Information Services |
| | RUBEN BALTIERRA | Cole Information Services |
| | DEBRA GATES | Cole Information Services |
| | MICHAEL HANASHIRO | Cole Information Services |
| | MECAN NELSON | Cole Information Services |
| | DONNY ORTIZ | Cole Information Services |
| | SIRENA GRANT | Cole Information Services |
| | JULIE LINDSAY | Cole Information Services |
| | RUBEN BALTIERRA | Cole Information Services |
| | DEBRA GATES | Cole Information Services |
| | MICHAEL HANASHIRO | Cole Information Services |
| | MECAN NELSON | Cole Information Services |
| | DONNY ORTIZ | Cole Information Services |
| 1996 | Rico Cruz Maria & Jorge | Pacific Bell |
| | Porter Steven & Martha | Pacific Bell |
| 1994 | MARRANZINO, JAMES | Cole Information Services |
| | UNIVERSAL CONSTRUCTION CO | Cole Information Services |
| | SHAHIN, M K | Cole Information Services |
| | SALVATIERRA, JESUS | Cole Information Services |
| | MARRANZINO, JAMES | Cole Information Services |
| | UNIVERSAL CONSTRUCTION CO | Cole Information Services |
| | SHAHIN, M K | Cole Information Services |
| | SALVATIERRA, JESUS | Cole Information Services |
| 1993 | Ramirez Dennis | Pacific Bell |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 1993 | Shahin Mohammad Khaled | Pacific Bell |
| | Clark D | Pacific Bell |
| | Johnson Michael | Pacific Bell |
| | Johnson Michelle | Pacific Bell |
| | Marranzino James | Pacific Bell |
| 1990 | Young Kevin J | Pacific Bell |

**1849 HIDEAWAY PL**

| Year | Uses | Source |
|---|---|---|
| 2017 | LUCIANO REYES | Cole Information Services |
| | PHYLLIS HANOHANO | Cole Information Services |
| | MARICELA ASHKENAZE | Cole Information Services |
| | CHANDARA THACH | Cole Information Services |
| | ALICIA CREWDSON | Cole Information Services |
| | CHARLES PERFECTO | Cole Information Services |
| | KIMBERLY HANOHANMUNTAR | Cole Information Services |
| | RAOUF MANSOUR | Cole Information Services |
| | MICHELLE LEON | Cole Information Services |
| | GLENN COFIELD | Cole Information Services |
| | ADAM STEWART | Cole Information Services |
| | BRENDA RAYFORD | Cole Information Services |
| | LUCIANO REYES | Cole Information Services |
| | PHYLLIS HANOHANO | Cole Information Services |
| | MARICELA ASHKENAZE | Cole Information Services |
| | CHANDARA THACH | Cole Information Services |
| | ALICIA CREWDSON | Cole Information Services |
| | CHARLES PERFECTO | Cole Information Services |
| | KIMBERLY HANOHANMUNTAR | Cole Information Services |
| | RAOUF MANSOUR | Cole Information Services |
| | MICHELLE LEON | Cole Information Services |
| | GLENN COFIELD | Cole Information Services |
| | ADAM STEWART | Cole Information Services |
| | BRENDA RAYFORD | Cole Information Services |

# FINDINGS

| *Year* | *Uses* | *Source* |
|---|---|---|
| 2014 | RAOUF MANSOUR | Cole Information Services |
| | GERMAN MORENO | Cole Information Services |
| | ELIAS VILLANUEVA | Cole Information Services |
| | TINA MCKEE | Cole Information Services |
| | ANNA KARSLYAN | Cole Information Services |
| | IRWING SOLIS | Cole Information Services |
| | AMBER ROSS | Cole Information Services |
| | MICHAEL BLAKE | Cole Information Services |
| | NICHOLE DENNIS | Cole Information Services |
| | CHARLES PERFECTO | Cole Information Services |
| | PREJON DIXON | Cole Information Services |
| | ELIAS VILLANUEVA | Cole Information Services |
| | RAOUF MANSOUR | Cole Information Services |
| | GERMAN MORENO | Cole Information Services |
| | TINA MCKEE | Cole Information Services |
| | ANNA KARSLYAN | Cole Information Services |
| | IRWING SOLIS | Cole Information Services |
| | AMBER ROSS | Cole Information Services |
| | MICHAEL BLAKE | Cole Information Services |
| | NICHOLE DENNIS | Cole Information Services |
| | CHARLES PERFECTO | Cole Information Services |
| | PREJON DIXON | Cole Information Services |
| 2009 | JAE LEE | Cole Information Services |
| | XOCHIL DELGADO | Cole Information Services |
| | ASLEY WILSON | Cole Information Services |
| | VLADIMIR AVAKOV | Cole Information Services |
| | BETTY SMITH | Cole Information Services |
| | RUBY BOWIE | Cole Information Services |
| | EVA JACOBO | Cole Information Services |
| | ROSSLYN ELMORE-MORRIS | Cole Information Services |
| | TOMAS AGUIRRE | Cole Information Services |
| | JERRY VANABEL | Cole Information Services |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 2009 | MICHAEL CARTER | Cole Information Services |
| | JAE LEE | Cole Information Services |
| | XOCHIL DELGADO | Cole Information Services |
| | ASLEY WILSON | Cole Information Services |
| | VLADIMIR AVAKOV | Cole Information Services |
| | MICHAEL CARTER | Cole Information Services |
| | RUBY BOWIE | Cole Information Services |
| | EVA JACOBO | Cole Information Services |
| | ROSSLYN ELMORE-MORRIS | Cole Information Services |
| | TOMAS AGUIRRE | Cole Information Services |
| | JERRY VANABEL | Cole Information Services |
| | BETTY SMITH | Cole Information Services |
| 2004 | LISANNE LITTLE | Cole Information Services |
| | DALE FRODIN | Cole Information Services |
| | GUMARO RAMIREZ | Cole Information Services |
| | CHRISTINA RENNER | Cole Information Services |
| | RICHARD PAPIN | Cole Information Services |
| | TIEN HO | Cole Information Services |
| | WILLIAM DESMOND | Cole Information Services |
| | KATHY MCCABE | Cole Information Services |
| | JOSEPHINE CISNEROS | Cole Information Services |
| | WILLIAM DESMOND | Cole Information Services |
| | LISANNE LITTLE | Cole Information Services |
| | GUMARO RAMIREZ | Cole Information Services |
| | CHRISTINA RENNER | Cole Information Services |
| | RICHARD PAPIN | Cole Information Services |
| | TIEN HO | Cole Information Services |
| | DALE FRODIN | Cole Information Services |
| | KATHY MCCABE | Cole Information Services |
| | JOSEPHINE CISNEROS | Cole Information Services |
| 2002 | Papin Christine | SBC PACIFIC BELL |
| | Little Lisanne | SBC PACIFIC BELL |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 2002 | APARTMENTS | SBC PACIFIC BELL |
| | Ho Tien | SBC PACIFIC BELL |
| | Fair Daniel | SBC PACIFIC BELL |
| 2001 | XXXX | Haines & Company, Inc. |
| 1999 | JERRY VANABEL | Cole Information Services |
| | TOMAS AGUIRRE | Cole Information Services |
| | ROSSLYN ELMORE-MORRIS | Cole Information Services |
| | EVA JACOBO | Cole Information Services |
| | XOCHIL DELGADO | Cole Information Services |
| | VLADIMIR AVAKOV | Cole Information Services |
| | ASLEY WILSON | Cole Information Services |
| | JAE LEE | Cole Information Services |
| | RUBY BOWIE | Cole Information Services |
| | BETTY SMITH | Cole Information Services |
| | JERRY VANABEL | Cole Information Services |
| | TOMAS AGUIRRE | Cole Information Services |
| | ROSSLYN ELMORE-MORRIS | Cole Information Services |
| | EVA JACOBO | Cole Information Services |
| | RUBY BOWIE | Cole Information Services |
| | VLADIMIR AVAKOV | Cole Information Services |
| | ASLEY WILSON | Cole Information Services |
| | XOCHIL DELGADO | Cole Information Services |
| | JAE LEE | Cole Information Services |
| | BETTY SMITH | Cole Information Services |
| 1996 | Porter Steven & Martha | Pacific Bell |
| | Um James | Pacific Bell |
| | 201 | Pacific Bell |
| 1994 | SCOTT, MARCUS | Cole Information Services |
| | SCOTT, MARCUS | Cole Information Services |
| 1993 | Brew er Kris | Pacific Bell |
| | Brew er Mike | Pacific Bell |
| | Brew er Mike | Pacific Bell |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 1993 | Brew er Paula J | Pacific Bell |
| | Brew er T | Pacific Bell |
| | Gammon Michael | Pacific Bell |
| | Scott Marcus | Pacific Bell |

**1855 HIDEAWAY PL**

| Year | Uses | Source |
|---|---|---|
| 2017 | JUAN VALDIVIEZO | Cole Information Services |
| | MACAELA CRUISE | Cole Information Services |
| | KEVIN NGIM | Cole Information Services |
| | ROBERTO HERNANDEZ | Cole Information Services |
| | MARY PAGANO | Cole Information Services |
| | JUAN VALDIVIEZO | Cole Information Services |
| | MACAELA CRUISE | Cole Information Services |
| | KEVIN NGIM | Cole Information Services |
| | ROBERTO HERNANDEZ | Cole Information Services |
| | MARY PAGANO | Cole Information Services |
| 2014 | BELINDA COSTELLO | Cole Information Services |
| | KEVIN NGIM | Cole Information Services |
| | JACQUELINE HEWITT | Cole Information Services |
| | JEFFREY LOCKWOOD | Cole Information Services |
| | BELINDA COSTELLO | Cole Information Services |
| | KEVIN NGIM | Cole Information Services |
| | JACQUELINE HEWITT | Cole Information Services |
| | JEFFREY LOCKWOOD | Cole Information Services |
| 2009 | JEFFREY LOCKWOOD | Cole Information Services |
| | JEFFREY LOCKWOOD | Cole Information Services |
| 2004 | BRUCE BAGINSKI | Cole Information Services |
| | DAYNA CRANDELL | Cole Information Services |
| | DIANE SMALL | Cole Information Services |
| | GINA LINDER | Cole Information Services |
| | BRUCE BAGINSKI | Cole Information Services |
| | DAYNA CRANDELL | Cole Information Services |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 2004 | DIANE SMALL | Cole Information Services |
| | GINA LINDER | Cole Information Services |
| 2002 | Cottrell Tiffany | SBC PACIFIC BELL |
| | APARTMENTS | SBC PACIFIC BELL |
| | Martin Darin | SBC PACIFIC BELL |
| | Schield Nathan A | SBC PACIFIC BELL |
| 2001 | CRITTONK | Haines & Company, Inc. |
| | TORRES Donne J | Haines & Company, Inc. |
| | TORRES Mansa | Haines & Company, Inc. |
| 1999 | JEFFREY LOCKWOOD | Cole Information Services |
| | JEFFREY LOCKWOOD | Cole Information Services |
| 1993 | East West Designs | Pacific Bell |
| | Eastland Bob & Bette | Pacific Bell |
| | Eastman G | Pacific Bell |
| | Herout K | Pacific Bell |
| | Poling Lars | Pacific Bell |
| | Herrera Adan | Pacific Bell |
| | Herrera A T | Pacific Bell |
| | Herrera A | Pacific Bell |

**1861 HIDEAWAY PL**

| Year | Uses | Source |
|---|---|---|
| 2017 | JANET KOOMSON | Cole Information Services |
| | ALMA ALEGRIA | Cole Information Services |
| | MARK GARCIA | Cole Information Services |
| | LAMONT ELLISON | Cole Information Services |
| | RICHARD RABAY | Cole Information Services |
| | JANET KOOMSON | Cole Information Services |
| | ALMA ALEGRIA | Cole Information Services |
| | MARK GARCIA | Cole Information Services |
| | LAMONT ELLISON | Cole Information Services |
| | RICHARD RABAY | Cole Information Services |
| 2014 | CATHERINE TINKLEY | Cole Information Services |

# FINDINGS

| *Year* | *Uses* | *Source* |
|---|---|---|
| 2014 | KRYSTLE MILAN | Cole Information Services |
| | JORGE ALARCON | Cole Information Services |
| | PATRICK ARBANAS | Cole Information Services |
| | CHARLES KOWALESKI | Cole Information Services |
| | CATHERINE TINKLEY | Cole Information Services |
| | KRYSTLE MILAN | Cole Information Services |
| | JORGE ALARCON | Cole Information Services |
| | PATRICK ARBANAS | Cole Information Services |
| | CHARLES KOWALESKI | Cole Information Services |
| 2009 | JORGE ALARCON | Cole Information Services |
| | CORNEL LUCACI | Cole Information Services |
| | JUAN NUNEZ | Cole Information Services |
| | JANNA LINDQUIT | Cole Information Services |
| | COREY GODFREY | Cole Information Services |
| | MANUEL CEJA | Cole Information Services |
| | ARMON LEE | Cole Information Services |
| | JORGE ALARCON | Cole Information Services |
| | CORNEL LUCACI | Cole Information Services |
| | JUAN NUNEZ | Cole Information Services |
| | JANNA LINDQUIT | Cole Information Services |
| | COREY GODFREY | Cole Information Services |
| | MANUEL CEJA | Cole Information Services |
| | ARMON LEE | Cole Information Services |
| 2004 | BRENDA EARL | Cole Information Services |
| | TODD MURDOCK | Cole Information Services |
| | NICHOLAS CERESIA | Cole Information Services |
| | PATRICIA ANAYA | Cole Information Services |
| | ROSA JACOBSON | Cole Information Services |
| | JUSTIN RAMSEY | Cole Information Services |
| | DARREN BORCHERDING | Cole Information Services |
| | JULIA SPICER | Cole Information Services |
| | EDELMIRA PRIETO | Cole Information Services |

# FINDINGS

| *Year* | *Uses* | *Source* |
|---|---|---|
| 2004 | BRENDA EARL | Cole Information Services |
| | TODD MURDOCK | Cole Information Services |
| | NICHOLAS CERESIA | Cole Information Services |
| | PATRICIA ANAYA | Cole Information Services |
| | ROSA JACOBSON | Cole Information Services |
| | JUSTIN RAMSEY | Cole Information Services |
| | DARREN BORCHERDING | Cole Information Services |
| | JULIA SPICER | Cole Information Services |
| | EDELMIRA PRIETO | Cole Information Services |
| 2001 | CAMACHOJ | Haines & Company, Inc. |
| | CARTER Nichoe | Haines & Company, Inc. |
| | CECILE Pham | Haines & Company, Inc. |
| | GETTESCandice | Haines & Company, Inc. |
| 1999 | ARMON LEE | Cole Information Services |
| | JUAN NUNEZ | Cole Information Services |
| | MANUEL CEJA | Cole Information Services |
| | COREY GODFREY | Cole Information Services |
| | CORNEL LUCACI | Cole Information Services |
| | JORGE ALARCON | Cole Information Services |
| | JANNA LINDQUIT | Cole Information Services |
| | ARMON LEE | Cole Information Services |
| | MANUEL CEJA | Cole Information Services |
| | JUAN NUNEZ | Cole Information Services |
| | COREY GODFREY | Cole Information Services |
| | JANNA LINDQUIT | Cole Information Services |
| | JORGE ALARCON | Cole Information Services |
| | CORNEL LUCACI | Cole Information Services |
| 1993 | Singh Harsanjeet | Pacific Bell |
| | Duran Troy A | Pacific Bell |
| | Fesler Robert | Pacific Bell |
| | Fett Jim | Pacific Bell |

# FINDINGS

**1865 HIDEAWAY PL**

| Year | Uses | Source |
|---|---|---|
| 1999 | OCCUPANT UNKNOWN | Cole Information Services |

## JENNA CIR

**1901 JENNA CIR**

| Year | Uses | Source |
|---|---|---|
| 2001 | KUNGLEKen | Haines & Company, Inc. |

**1960 JENNA CIR**

| Year | Uses | Source |
|---|---|---|
| 2001 | NGUYENV 909 B | Haines & Company, Inc. |
| | NGOUYENHien | Haines & Company, Inc. |

**1974 JENNA CIR**

| Year | Uses | Source |
|---|---|---|
| 2017 | TURKSON MARION | Cole Information Services |
| | TURKSON MARION | Cole Information Services |
| 2014 | TURKSON MARION | Cole Information Services |
| | TURKSON MARION | Cole Information Services |
| 2009 | ROBERT LEWIS | Cole Information Services |
| | ROBERT LEWIS | Cole Information Services |
| 2004 | ROBERT LEWIS | Cole Information Services |
| | ROBERT LEWIS | Cole Information Services |
| 2001 | PHAN Thomas | Haines & Company, Inc. |
| 1999 | ROBERT LEWIS | Cole Information Services |
| | ROBERT LEWIS | Cole Information Services |

**1975 JENNA CIR**

| Year | Uses | Source |
|---|---|---|
| 2014 | ROBIN LAMASTER | Cole Information Services |
| | ROBIN LAMASTER | Cole Information Services |
| 2009 | OCCUPANT UNKNOWN | Cole Information Services |
| | OCCUPANT UNKNOWN | Cole Information Services |
| 2004 | HOWARD FORGEY | Cole Information Services |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 2004 | DANIEL AUSTIN | Cole Information Services |
| | HOWARD FORGEY | Cole Information Services |
| | DANIEL AUSTIN | Cole Information Services |
| 2001 | 0 SCANLONRobert | Haines & Company, Inc. |

**1980 JENNA CIR**

| Year | Uses | Source |
|---|---|---|
| 2014 | OCCUPANT UNKNOWN | Cole Information Services |
| | OCCUPANT UNKNOWN | Cole Information Services |
| 2009 | HIEN NGUYEN | Cole Information Services |
| | HIEN NGUYEN | Cole Information Services |
| 2002 | Nguyen Hien | SBC PACIFIC BELL |
| 1999 | HIEN NGUYEN | Cole Information Services |
| | HIEN NGUYEN | Cole Information Services |
| 1996 | Nguyen Hien | Pacific Bell |
| 1994 | NGUYEN, HIEN | Cole Information Services |
| | NGUYEN, HIEN | Cole Information Services |
| 1993 | Nguyen Hien | Pacific Bell |
| 1990 | Nguyen Hien | Pacific Bell |

**1981 JENNA CIR**

| Year | Uses | Source |
|---|---|---|
| 2017 | KENNETH KUNGLE | Cole Information Services |
| | KENNETH KUNGLE | Cole Information Services |
| 2014 | KENNETH KUNGLE | Cole Information Services |
| | KENNETH KUNGLE | Cole Information Services |
| 2009 | KENNETH KUNGLE | Cole Information Services |
| | KENNETH KUNGLE | Cole Information Services |
| 2004 | KENNETH KUNGLE | Cole Information Services |
| | KENNETH KUNGLE | Cole Information Services |
| 1999 | KENNETH KUNGLE | Cole Information Services |
| | OCCUPANT UNKNOWN | Cole Information Services |
| | KENNETH KUNGLE | Cole Information Services |
| | OCCUPANT UNKNOWN | Cole Information Services |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 1993 | Kungle Kevin | Pacific Bell |
| 1990 | Kungle Kenneth L | Pacific Bell |
| | Kungle Kevin | Pacific Bell |

**1986 JENNA CIR**

| Year | Uses | Source |
|---|---|---|
| 2017 | MONICA CZAPLA | Cole Information Services |
| | MONICA CZAPLA | Cole Information Services |
| 2014 | MICHEAL CZPALA | Cole Information Services |
| | MICHEAL CZPALA | Cole Information Services |
| 2009 | FLORENCIA TORRES | Cole Information Services |
| | FLORENCIA TORRES | Cole Information Services |
| 2004 | TIMOTHY RICHARDS | Cole Information Services |
| | TIMOTHY RICHARDS | Cole Information Services |
| 2002 | Richards Tim R | SBC PACIFIC BELL |
| 2001 | ORICHARDS Tim R | Haines & Company, Inc. |
| 1999 | FLORENCIA TORRES | Cole Information Services |
| | FLORENCIA TORRES | Cole Information Services |
| 1996 | Richards Tim R | Pacific Bell |
| 1994 | RICHARDS, TIM R | Cole Information Services |
| | RICHARDS, TIM R | Cole Information Services |
| 1993 | Richards Tim R | Pacific Bell |
| 1990 | Richards Tim R | Pacific Bell |

**1987 JENNA CIR**

| Year | Uses | Source |
|---|---|---|
| 2014 | OCCUPANT UNKNOWN | Cole Information Services |
| | OCCUPANT UNKNOWN | Cole Information Services |
| 2004 | EMAD ALWER | Cole Information Services |
| | EMAD ALWER | Cole Information Services |
| 2001 | GABRIEL Michael | Haines & Company, Inc. |

# FINDINGS

**1990 JENNA CIR**

| *Year* | *Uses* | *Source* |
|---|---|---|
| 2017 | MARICELA VALDEZ | Cole Information Services |
| | MARICELA VALDEZ | Cole Information Services |
| 2014 | HARRY VAUGHN | Cole Information Services |
| | HARRY VAUGHN | Cole Information Services |
| 2009 | OCCUPANT UNKNOWN | Cole Information Services |
| | OCCUPANT UNKNOWN | Cole Information Services |
| 2004 | NANCY TOUSLEY | Cole Information Services |
| | NANCY TOUSLEY | Cole Information Services |
| 2002 | Cottini Nancy | SBC PACIFIC BELL |
| | Guillo Serene | SBC PACIFIC BELL |
| 2001 | STISCHLERDan | Haines & Company, Inc. |
| | TOUSLEY Nancy | Haines & Company, Inc. |

**1991 JENNA CIR**

| *Year* | *Uses* | *Source* |
|---|---|---|
| 2017 | RONALD UTASKI | Cole Information Services |
| | RONALD UTASKI | Cole Information Services |
| 2014 | RONALD UTASKI | Cole Information Services |
| | RONALD UTASKI | Cole Information Services |
| 2009 | RONALD UTASKI | Cole Information Services |
| | RONALD UTASKI | Cole Information Services |
| 2004 | SANDRA HARVEY | Cole Information Services |
| | SANDRA HARVEY | Cole Information Services |
| 2001 | OUTASKI Ronald | Haines & Company, Inc. |
| 1999 | RONALD UTASKI | Cole Information Services |
| | RONALD UTASKI | Cole Information Services |

**1998 JENNA CIR**

| *Year* | *Uses* | *Source* |
|---|---|---|
| 2017 | GEORG DAOUD | Cole Information Services |
| | GEORG DAOUD | Cole Information Services |
| 2014 | GEORG DAOUD | Cole Information Services |
| | GEORG DAOUD | Cole Information Services |

| Year | Uses | Source |
|---|---|---|
| 2009 | JOHNNY SPRINGER | Cole Information Services |
| | JOHNNY SPRINGER | Cole Information Services |
| 2004 | ROBERT GERMAN | Cole Information Services |
| | PROJECT SUPPORT SERVICES | Cole Information Services |
| | ROBERT GERMAN | Cole Information Services |
| | PROJECT SUPPORT SERVICES | Cole Information Services |
| 2001 | GERMAN Robed | Haines & Company, Inc. |
| 1999 | JOHNNY SPRINGER | Cole Information Services |
| | JOHNNY SPRINGER | Cole Information Services |

**1999 JENNA CIR**

| Year | Uses | Source |
|---|---|---|
| 2017 | TAI NGUYEN | Cole Information Services |
| 2014 | TAI NGUYEN | Cole Information Services |
| 2009 | TAI NGUYEN | Cole Information Services |
| 2004 | TAI NGUYEN | Cole Information Services |
| 2001 | NGUYENTai | Haines & Company, Inc. |
| 1999 | TAI NGUYEN | Cole Information Services |

## LYNWOOD CIR

**1941 LYNWOOD CIR**

| Year | Uses | Source |
|---|---|---|
| 2017 | EDWARD HILL | Cole Information Services |
| | EDWARD HILL | Cole Information Services |
| 2014 | EDWARD HILL | Cole Information Services |
| | EDWARD HILL | Cole Information Services |
| 2009 | OCCUPANT UNKNOWN | Cole Information Services |
| | OCCUPANT UNKNOWN | Cole Information Services |
| 2004 | EDWARD HILL | Cole Information Services |
| | EDWARD HILL | Cole Information Services |
| 1994 | HUBBARD, GLENN R | Cole Information Services |
| | HUBBARD, GLENN R | Cole Information Services |
| 1993 | Hubbard Glenn R | Pacific Bell |

| Year | Uses | Source |
|---|---|---|
| 1990 | Hubbard Glenn R | Pacific Bell |

**1951 LYNWOOD CIR**

| Year | Uses | Source |
|---|---|---|
| 2017 | MICHAEL CONRAD | Cole Information Services |
| | MICHAEL CONRAD | Cole Information Services |
| 2014 | GREGORY CONRAD | Cole Information Services |
| | GREGORY CONRAD | Cole Information Services |
| 2009 | OCCUPANT UNKNOWN | Cole Information Services |
| | OCCUPANT UNKNOWN | Cole Information Services |
| 2004 | LEE KINSBURSKY | Cole Information Services |
| | LEE KINSBURSKY | Cole Information Services |

## MAGNOLIA AVE

**886 MAGNOLIA AVE**

| Year | Uses | Source |
|---|---|---|
| 2017 | RANCHO PHYSICAL THERAPY | Cole Information Services |
| 2014 | RADNET MANAGEMENT INC | Cole Information Services |
| | RANCHO PHYSICAL THERAPY | Cole Information Services |
| | DISH NETWORK | Cole Information Services |
| 2009 | SOLIDAY LES | Cole Information Services |
| | RANCHO PHYSICAL THERAPY | Cole Information Services |
| | WILLIAM A ATKINS | Cole Information Services |
| | CLINE KRISTEN MPT | Cole Information Services |
| 2004 | CLINE M KRISTEN | Cole Information Services |
| | RANCHO PHYSICAL THERAPY OF CRN | Cole Information Services |
| | CORONA RADIOLOGY MEDICAL CTR | Cole Information Services |
| | PERKINS WILLIAM | Cole Information Services |
| 1999 | SOLIDAY LES INS AGT | Cole Information Services |
| | A FAMILY DENTAL PRACTICE | Cole Information Services |
| | PERKINS WILLIAM R DDS INCORPORATED | Cole Information Services |
| | WILLIAM PERKINS DDS | Cole Information Services |
| 1994 | SOLIDAY, LES | Cole Information Services |

| Year | Uses | Source |
|---|---|---|
| 1994 | PERKINS, WILLIAM R | Cole Information Services |

## OLD TEMESCAL RD

### 1150 OLD TEMESCAL RD

| Year | Uses | Source |
|---|---|---|
| 2001 | XXXX | Haines & Company, Inc. |
| 1970 | Keane Melvin J | Pacific Telephone |

## OLYMPIC DR

### 1100 OLYMPIC DR

| Year | Uses | Source |
|---|---|---|
| 2017 | INTERACTIVE DATA & TELEPHONE | Cole Information Services |
| | AVALON BUILDING MAINTENANCE ISLAND E | Cole Information Services |
| | MOLD VISION INC | Cole Information Services |
| | B L BEALER INC | Cole Information Services |
| | VIKING COMMERCIAL CLEANING | Cole Information Services |
| | CARENET MEDICAL | Cole Information Services |
| | NEIGHBORHOOD HOME CARE | Cole Information Services |
| 2014 | AVALON BUILDING MAINTENANCE ISLAND E | Cole Information Services |
| | INTERACTIVE DATA & TELEPHONE | Cole Information Services |
| | NEIGHBORHOOD HOME CARE | Cole Information Services |
| | INTEGRITY FIRE SYSTEMS INC | Cole Information Services |
| | MOLD VISION INC | Cole Information Services |
| | KRAZAN & ASSOCIATES INC | Cole Information Services |
| | B L BEALER INC | Cole Information Services |
| | VIKING COMMERCIAL CLEANING | Cole Information Services |
| | CARENET MEDICAL | Cole Information Services |
| 2009 | INTEGRITY FIRE SYSTEMS INC | Cole Information Services |
| | BLB INC | Cole Information Services |
| | DANCRO CORP | Cole Information Services |
| | VIKING COMMERCIAL CLEANING | Cole Information Services |

| Year | Uses | Source |
|---|---|---|
| 2009 | B L BEALER INC | Cole Information Services |
| 2004 | JANE GO | Cole Information Services |
| | MOLD VISION LLC | Cole Information Services |
| | LEAVERTON SPECTRUM I | Cole Information Services |
| | GO JANE CO | Cole Information Services |
| | BL BEALER INC | Cole Information Services |
| | ON THE WALL FRAMES | Cole Information Services |
| | PROSIGNS FAST | Cole Information Services |
| 1999 | C S D I | Cole Information Services |
| | ON THE WALL FRAMES | Cole Information Services |
| | SANDERSON BROTHERS INCORPORATED | Cole Information Services |
| 1994 | DOME WOOD CO | Cole Information Services |
| | ANNTON RESEARCH | Cole Information Services |
| | RAR ELECTRIC | Cole Information Services |
| | MARLIN ELECTRIC INC | Cole Information Services |
| | CORONA PLASTERING INC | Cole Information Services |
| | ROCKFIELD DEVELOPMENT CORP | Cole Information Services |

## Olympic Drive

**1100 Olympic Drive**

| Year | Uses | Source |
|---|---|---|
| 2002 | GO JANE COM | SBC PACIFIC BELL |
| | OFFICE | SBC PACIFIC BELL |
| | BICENNTENIAL GOLF CENTER | SBC PACIFIC BELL |
| | ON THE WALL FRAMES | SBC PACIFIC BELL |
| | CORONA NORCO | SBC PACIFIC BELL |
| | MOLD VISION LLC | SBC PACIFIC BELL |
| 2001 | BEALERBL | Haines & Company, Inc. |
| | GO JANE COM | Haines & Company, Inc. |
| | MOLD VISION LLC | Haines & Company, Inc. |
| | OLYMPICGOLF | Haines & Company, Inc. |
| | COMPANY ON THE WALL FRAMES | Haines & Company, Inc. |

| Year | Uses | Source |
|---|---|---|
| 1996 | Pratt K & M | Pacific Bell |
| | 101 | Pacific Bell |
| | 102 | Pacific Bell |
| | 104 | Pacific Bell |
| | 106 | Pacific Bell |
| 1993 | Annton Research | Pacific Bell |
| | Corona Plastering Inc | Pacific Bell |
| | R AR Electric | Pacific Bell |
| | Rockfield Development Corp | Pacific Bell |
| | Rockhdt JH | Pacific Bell |
| 1990 | BARRETT & LOKUS CONSTRUCTION CO | Pacific Bell |
| | LEAVERTON CO | Pacific Bell |
| | ROCKFIELD DEVELOPMENT CORP | Pacific Bell |
| | CRAFT PLASTIC | Pacific Bell |
| | CRAFT PLASTIC | Pacific Bell |
| | CORONA PLASTERING INC | Pacific Bell |

## RIDGEWOOD DR

### 1035 RIDGEWOOD DR

| Year | Uses | Source |
|---|---|---|
| 2014 | LYNETTA ANTHONY | Cole Information Services |
| | LYNETTA ANTHONY | Cole Information Services |
| 2004 | MELISSA OAKLEY | Cole Information Services |
| | MELISSA OAKLEY | Cole Information Services |
| 2001 | ARIFAn I | Haines & Company, Inc. |

### 1043 RIDGEWOOD DR

| Year | Uses | Source |
|---|---|---|
| 2017 | COZEY JOHNSON | Cole Information Services |
| | COZEY JOHNSON | Cole Information Services |
| 2014 | COZEY JOHNSON | Cole Information Services |
| | COZEY JOHNSON | Cole Information Services |
| 2009 | COZEY JOHNSON | Cole Information Services |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 2009 | COZEY JOHNSON | Cole Information Services |
| 2004 | COZEY JOHNSON | Cole Information Services |
| | COZEY JOHNSON | Cole Information Services |
| 2001 | RAMOSRaoael | Haines & Company, Inc. |
| 1999 | COZEY JOHNSON | Cole Information Services |
| | COZEY JOHNSON | Cole Information Services |

**1051 RIDGEWOOD DR**

| Year | Uses | Source |
|---|---|---|
| 2017 | MICHAEL CORNETT | Cole Information Services |
| | MICHAEL CORNETT | Cole Information Services |
| 2014 | OCCUPANT UNKNOWN | Cole Information Services |
| | OCCUPANT UNKNOWN | Cole Information Services |
| 2009 | MICHAEL CORNETT | Cole Information Services |
| | MICHAEL CORNETT | Cole Information Services |
| 2004 | TONJA BUCELLO | Cole Information Services |
| | TONJA BUCELLO | Cole Information Services |
| 2001 | BUCELLOTona | Haines & Company, Inc. |
| 1999 | MICHAEL CORNETT | Cole Information Services |
| | MICHAEL CORNETT | Cole Information Services |

**1059 RIDGEWOOD DR**

| Year | Uses | Source |
|---|---|---|
| 2017 | DENNIS DIZON | Cole Information Services |
| | DENNIS DIZON | Cole Information Services |
| 2014 | DENNIS DIZON | Cole Information Services |
| | DENNIS DIZON | Cole Information Services |
| 2009 | DEXTER DIZON | Cole Information Services |
| | DEXTER DIZON | Cole Information Services |
| 2004 | OCCUPANT UNKNOWN | Cole Information Services |
| | LLOYDS SEWING MACHINE & REPAIR | Cole Information Services |
| | OCCUPANT UNKNOWN | Cole Information Services |
| | LLOYDS SEWING MACHINE & REPAIR | Cole Information Services |
| 2001 | LLOYDTeddy | Haines & Company, Inc. |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 1999 | DEXTER DIZON | Cole Information Services |
| | DEXTER DIZON | Cole Information Services |
| 1994 | LLOYDS SEWING MACHINE SVC CTR | Cole Information Services |
| | LLOYDS SEWING MACHINE SVC CTR | Cole Information Services |

**1067 RIDGEWOOD DR**

| Year | Uses | Source |
|---|---|---|
| 2017 | RUBEN MARTINEZ | Cole Information Services |
| | RUBEN MARTINEZ | Cole Information Services |
| 2014 | RUBEN MARTINEZ | Cole Information Services |
| | RUBEN MARTINEZ | Cole Information Services |
| 2009 | MARTIN DEANDA | Cole Information Services |
| | MARTIN DEANDA | Cole Information Services |
| 2004 | MARTIN DEANDA | Cole Information Services |
| | SOUTH CORONA DRYWALL INC | Cole Information Services |
| | MARTIN DEANDA | Cole Information Services |
| | SOUTH CORONA DRYWALL INC | Cole Information Services |
| 2002 | SOUTH CORONA DRYWALL INC | SBC PACIFIC BELL |
| 2001 | DEANDAMarin | Haines & Company, Inc. |
| 1999 | MARTIN DEANDA | Cole Information Services |
| | MARTIN DEANDA | Cole Information Services |
| 1993 | Moreno Ellen G | Pacific Bell |
| 1990 | Moreno Ellen G | Pacific Bell |

**1075 RIDGEWOOD DR**

| Year | Uses | Source |
|---|---|---|
| 2017 | KEVIN DUNNE | Cole Information Services |
| | KEVIN DUNNE | Cole Information Services |
| 2014 | PATRICK DUNNE | Cole Information Services |
| | PATRICK DUNNE | Cole Information Services |
| 2009 | PATRICK DUNNE | Cole Information Services |
| | PATRICK DUNNE | Cole Information Services |
| 2004 | PATRICK DUNNE | Cole Information Services |
| | JADED LUXURY | Cole Information Services |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 2004 | PATRICK DUNNE | Cole Information Services |
| | JADED LUXURY | Cole Information Services |
| 2002 | Dunne PW | SBC PACIFIC BELL |
| 2001 | DUNNEPW | Haines & Company, Inc. |
| 1999 | PATRICK DUNNE | Cole Information Services |
| | PATRICK DUNNE | Cole Information Services |
| 1996 | Dunne P W | Pacific Bell |

**1083 RIDGEWOOD DR**

| Year | Uses | Source |
|---|---|---|
| 2017 | AKBAR RIZVI | Cole Information Services |
| | AKBAR RIZVI | Cole Information Services |
| 2014 | AKBAR RIZVI | Cole Information Services |
| | AKBAR RIZVI | Cole Information Services |
| 2009 | AKBAR RIZVI | Cole Information Services |
| | AKBAR RIZVI | Cole Information Services |
| 2004 | AKBAR RIZVI | Cole Information Services |
| | AKBAR RIZVI | Cole Information Services |
| 2002 | Rizvi Akbar | SBC PACIFIC BELL |
| 2001 | RIZVIAkbar | Haines & Company, Inc. |
| 1999 | AKBAR RIZVI | Cole Information Services |
| | AKBAR RIZVI | Cole Information Services |
| 1996 | Rizvi Akbar | Pacific Bell |
| 1994 | RIZVI, AKBAR | Cole Information Services |
| | RIZVI, AKBAR | Cole Information Services |
| 1993 | Rizvi Akbar | Pacific Bell |
| | Rizzi Michael & Claudia | Pacific Bell |
| 1990 | Rizvi Akbar | Pacific Bell |

**1087 RIDGEWOOD DR**

| Year | Uses | Source |
|---|---|---|
| 2014 | MARTIN TRIJILLO | Cole Information Services |
| | MARTIN TRIJILLO | Cole Information Services |
| 2004 | JAMES REYBURN | Cole Information Services |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 2004 | JAMES REYBURN | Cole Information Services |
| 2001 | OVANVOORHISSIeven | Haines & Company, Inc. |
| 1999 | OCCUPANT UNKNOWN | Cole Information Services |
| | OCCUPANT UNKNOWN | Cole Information Services |
| 1993 | Hirsch J L | Pacific Bell |
| | Hirschmann E | Pacific Bell |
| | Hirst JD | Pacific Bell |

**1093 RIDGEWOOD DR**

| Year | Uses | Source |
|---|---|---|
| 2017 | SEAN HERLEM | Cole Information Services |
| | SEAN HERLEM | Cole Information Services |
| 2014 | SEAN HERLEM | Cole Information Services |
| | SEAN HERLEM | Cole Information Services |
| 2009 | SEAN HERLEM | Cole Information Services |
| | SEAN HERLEM | Cole Information Services |
| 2004 | SORAYDA CASTRILLO | Cole Information Services |
| | SORAYDA CASTRILLO | Cole Information Services |
| 2002 | Castrillo Sorayda | SBC PACIFIC BELL |
| 2001 | EGANASunetle | Haines & Company, Inc. |
| 1999 | SEAN HERLEM | Cole Information Services |
| | SEAN HERLEM | Cole Information Services |
| 1994 | LAMARR, RAYMOND | Cole Information Services |
| | LAMARR, RAYMOND | Cole Information Services |
| 1993 | La Marr Raymond | Pacific Bell |
| | La Master Keith | Pacific Bell |
| 1990 | La Marr Raymond | Pacific Bell |

**1099 RIDGEWOOD DR**

| Year | Uses | Source |
|---|---|---|
| 2017 | ERNEST LEYVA | Cole Information Services |
| | ERNEST LEYVA | Cole Information Services |
| 2014 | FLORA ECHEVERRIA | Cole Information Services |
| | FLORA ECHEVERRIA | Cole Information Services |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 2009 | NIEVES CALLE | Cole Information Services |
| | NIEVES CALLE | Cole Information Services |
| 2004 | ERNIE LEYVA | Cole Information Services |
| | ERNIE LEYVA | Cole Information Services |
| 2002 | Leyva Ernest | SBC PACIFIC BELL |
| 2001 | LEYVAErnest | Haines & Company, Inc. |
| 1996 | Leyva Ernest | Pacific Bell |
| 1994 | LEYVA, ERNEST | Cole Information Services |
| | LEYVA, ERNEST | Cole Information Services |
| 1993 | Leyva Ernest | Pacific Bell |
| 1990 | Leyva Ernest | Pacific Bell |

## RIMPAU AVE

**1932 RIMPAU AVE**

| Year | Uses | Source |
|---|---|---|
| 1961 | VACANT | Luskey Brothers & Co. |

## RUSTRIDGE PL

**1884 RUSTRIDGE PL**

| Year | Uses | Source |
|---|---|---|
| 2017 | STEVEN DELEON | Cole Information Services |
| | DEVEREE BRACE | Cole Information Services |
| | ASIA BROWN | Cole Information Services |
| | TOM BARTON | Cole Information Services |
| | COURTNEY STEIN | Cole Information Services |
| | ARELI QUEZADA | Cole Information Services |
| | STEVEN DELEON | Cole Information Services |
| | DEVEREE BRACE | Cole Information Services |
| | ASIA BROWN | Cole Information Services |
| | TOM BARTON | Cole Information Services |
| | COURTNEY STEIN | Cole Information Services |
| | ARELI QUEZADA | Cole Information Services |
| 2014 | ANTHONY MITCHELL | Cole Information Services |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 2014 | JORGE PACASI | Cole Information Services |
| | STEVEN DELEON | Cole Information Services |
| | ANTHONY MITCHELL | Cole Information Services |
| | JORGE PACASI | Cole Information Services |
| | STEVEN DELEON | Cole Information Services |
| 2009 | LURENA BLACK | Cole Information Services |
| | BARRY JOHNSON | Cole Information Services |
| | COURTNEY STINE | Cole Information Services |
| | MARGARITA VIVEROS | Cole Information Services |
| | LURENA BLACK | Cole Information Services |
| | BARRY JOHNSON | Cole Information Services |
| | COURTNEY STINE | Cole Information Services |
| | MARGARITA VIVEROS | Cole Information Services |
| 2004 | ELIZABETH HOFFMANN | Cole Information Services |
| | LISA GOULAS | Cole Information Services |
| | DAVID PORTER | Cole Information Services |
| | M MAGLIOCCHETTI | Cole Information Services |
| | WADIE MARCOS | Cole Information Services |
| | JODY WOODS | Cole Information Services |
| | IEREMIA TUI | Cole Information Services |
| | J SANCHEZ | Cole Information Services |
| | ELIZABETH HOFFMANN | Cole Information Services |
| | LISA GOULAS | Cole Information Services |
| | DAVID PORTER | Cole Information Services |
| | WADIE MARCOS | Cole Information Services |
| | M MAGLIOCCHETTI | Cole Information Services |
| | JODY WOODS | Cole Information Services |
| | IEREMIA TUI | Cole Information Services |
| | J SANCHEZ | Cole Information Services |
| 2002 | APARTMENTS | SBC PACIFIC BELL |
| | Hoffmann E | SBC PACIFIC BELL |
| 2001 | MAGLIOCCHIETTIM | Haines & Company, Inc. |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 2001 | BENOERJohn | Haines & Company, Inc. |
| 1999 | COURTNEY STINE | Cole Information Services |
| | BARRY JOHNSON | Cole Information Services |
| | LURENA BLACK | Cole Information Services |
| | MARGARITA VIVEROS | Cole Information Services |
| | COURTNEY STINE | Cole Information Services |
| | BARRY JOHNSON | Cole Information Services |
| | LURENA BLACK | Cole Information Services |
| | MARGARITA VIVEROS | Cole Information Services |
| 1994 | CAL PACIFIC CO | Cole Information Services |
| | CAL PACIFIC CO | Cole Information Services |
| 1993 | Pacific Printing Co | Pacific Bell |

## SAN MARINO CIR

**1131 SAN MARINO CIR**

| Year | Uses | Source |
|---|---|---|
| 1993 | Putjenter Scott | Pacific Bell |

## SAN MARINO CT

**1131 SAN MARINO CT**

| Year | Uses | Source |
|---|---|---|
| 2017 | DARRYL JOINTER | Cole Information Services |
| | WILSON ADRIANE | Cole Information Services |
| | BERKELEY EDWARDS | Cole Information Services |
| | ADRIANE WILSON | Cole Information Services |
| | DARRYL JOINTER | Cole Information Services |
| | WILSON ADRIANE | Cole Information Services |
| | BERKELEY EDWARDS | Cole Information Services |
| | ADRIANE WILSON | Cole Information Services |
| 2014 | BERKELEY EDWARDS | Cole Information Services |
| | ADRIANE WILSON | Cole Information Services |
| | CHRISTINE CARDINAL | Cole Information Services |
| | SHERRI PINELLI | Cole Information Services |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 2014 | BERKELEY EDWARDS | Cole Information Services |
| | ADRIANE WILSON | Cole Information Services |
| | CHRISTINE CARDINAL | Cole Information Services |
| | SHERRI PINELLI | Cole Information Services |
| 2009 | ADRIANE WILSON | Cole Information Services |
| | ELIZABETH ZAVALA | Cole Information Services |
| | BERKELEY EDWARDS | Cole Information Services |
| | ADRIANE WILSON | Cole Information Services |
| | ELIZABETH ZAVALA | Cole Information Services |
| | BERKELEY EDWARDS | Cole Information Services |
| 2004 | DENNIS CHERONE | Cole Information Services |
| | AFSHIN COMPANIVALA | Cole Information Services |
| | BERKELEY EDWARDS | Cole Information Services |
| | DENNIS CHERONE | Cole Information Services |
| | AFSHIN COMPANIVALA | Cole Information Services |
| | BERKELEY EDWARDS | Cole Information Services |
| 2002 | APARTMENTS | SBC PACIFIC BELL |
| | Cherone Dennis & Patricia | SBC PACIFIC BELL |
| | Cherone Dennis & Patricia | SBC PACIFIC BELL |
| 1999 | BERKELEY EDWARDS | Cole Information Services |
| | ELIZABETH ZAVALA | Cole Information Services |
| | ADRIANE WILSON | Cole Information Services |
| | BERKELEY EDWARDS | Cole Information Services |
| | ELIZABETH ZAVALA | Cole Information Services |
| | ADRIANE WILSON | Cole Information Services |
| 1996 | Cherone Dennis & Patricia | Pacific Bell |
| | Cherry Linda | Pacific Bell |
| 1990 | Cherone Dennis & Patricia | Pacific Bell |
| | Putjenter Scott | Pacific Bell |

# FINDINGS

## SILVERWOOD CIR

### 1901 SILVERWOOD CIR

| Year | Uses | Source |
|---|---|---|
| 2017 | NATHAN MUZQUIZ | Cole Information Services |
| | NATHAN MUZQUIZ | Cole Information Services |
| 2014 | BRANDON KAAN | Cole Information Services |
| | BRANDON KAAN | Cole Information Services |
| 2009 | OCCUPANT UNKNOWN | Cole Information Services |
| | OCCUPANT UNKNOWN | Cole Information Services |
| 2004 | CARLOS GARAY | Cole Information Services |
| | CARLOS GARAY | Cole Information Services |

### 1902 SILVERWOOD CIR

| Year | Uses | Source |
|---|---|---|
| 2017 | ERICA ARMENTA | Cole Information Services |
| | ERICA ARMENTA | Cole Information Services |
| 2014 | OCCUPANT UNKNOWN | Cole Information Services |
| | OCCUPANT UNKNOWN | Cole Information Services |
| 2009 | LANE CROSS | Cole Information Services |
| | LANE CROSS | Cole Information Services |
| 2004 | R KOSCELNIK | Cole Information Services |
| | R KOSCELNIK | Cole Information Services |
| 1999 | LANE CROSS | Cole Information Services |
| | LANE CROSS | Cole Information Services |

### 1911 SILVERWOOD CIR

| Year | Uses | Source |
|---|---|---|
| 2017 | GAIL WILLS | Cole Information Services |
| | GAIL WILLS | Cole Information Services |
| 2014 | CHARLES WILLS | Cole Information Services |
| | CHARLES WILLS | Cole Information Services |
| 2009 | CHARLES WILLS | Cole Information Services |
| | CHARLES WILLS | Cole Information Services |
| 2004 | CHARLES WILLS | Cole Information Services |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 2004 | THE WILLS FOUNDATION | Cole Information Services |
| | CHARLES WILLS | Cole Information Services |
| | THE WILLS FOUNDATION | Cole Information Services |
| 1999 | CHARLES WILLS | Cole Information Services |
| | CHARLES WILLS | Cole Information Services |

**1912 SILVERWOOD CIR**

| Year | Uses | Source |
|---|---|---|
| 2017 | ROLAND TWEED | Cole Information Services |
| | ROLAND TWEED | Cole Information Services |
| 2014 | ROLAND TWEED | Cole Information Services |
| | ROLAND TWEED | Cole Information Services |
| 2009 | ROLAND TWEED | Cole Information Services |
| | ROLAND TWEED | Cole Information Services |
| 2004 | ROLAND TWEED | Cole Information Services |
| | ROLAND TWEED | Cole Information Services |
| 2002 | Tweed Roland D | SBC PACIFIC BELL |
| 1999 | ROLAND TWEED | Cole Information Services |
| | ROLAND TWEED | Cole Information Services |

**1921 SILVERWOOD CIR**

| Year | Uses | Source |
|---|---|---|
| 2017 | JASON SCOTT | Cole Information Services |
| | JASON SCOTT | Cole Information Services |
| 2014 | GEOFF SCOTT | Cole Information Services |
| | GEOFF SCOTT | Cole Information Services |
| 2009 | CHARLES SCOTT | Cole Information Services |
| | CHARLES SCOTT | Cole Information Services |
| 2004 | CHARLES SCOTT | Cole Information Services |
| | CHARLES SCOTT | Cole Information Services |
| 1999 | CHARLES SCOTT | Cole Information Services |
| | OCCUPANT UNKNOWN | Cole Information Services |
| | CHARLES SCOTT | Cole Information Services |
| | OCCUPANT UNKNOWN | Cole Information Services |

| Year | Uses | Source |
|---|---|---|
| 1994 | SCOTT, G M | Cole Information Services |
| | SCOTT, G M | Cole Information Services |
| 1993 | Scott Geoffrey M | Pacific Bell |
| 1990 | Scott Geoffrey M | Pacific Bell |

**1922 SILVERWOOD CIR**

| Year | Uses | Source |
|---|---|---|
| 2017 | SY TANG | Cole Information Services |
| | SY TANG | Cole Information Services |
| 2014 | JOHN DEQUATTRO | Cole Information Services |
| | JOHN DEQUATTRO | Cole Information Services |
| 2009 | JOHN DEQUATTRO | Cole Information Services |
| | JOHN DEQUATTRO | Cole Information Services |
| 2004 | JOHN DEQUATTRO | Cole Information Services |
| | JOHN DEQUATTRO | Cole Information Services |
| 2002 | De Quattro Malay V | SBC PACIFIC BELL |
| 1999 | JOHN DEQUATTRO | Cole Information Services |
| | JOHN DEQUATTRO | Cole Information Services |
| 1996 | Anderson Paul A & Melinda L | Pacific Bell |

**1931 SILVERWOOD CIR**

| Year | Uses | Source |
|---|---|---|
| 2017 | NOOUREDDINE RAHBANY | Cole Information Services |
| | NOOUREDDINE RAHBANY | Cole Information Services |
| 2014 | CONRADO GONZALES | Cole Information Services |
| | CONRADO GONZALES | Cole Information Services |
| 2009 | CONRADO GONZALES | Cole Information Services |
| | CONRADO GONZALES | Cole Information Services |
| 2004 | MICHAEL KELLEGHAN | Cole Information Services |
| | BIOTRAX | Cole Information Services |
| | MICHAEL KELLEGHAN | Cole Information Services |
| | BIOTRAX | Cole Information Services |
| 1999 | CONRADO GONZALES | Cole Information Services |
| | CONRADO GONZALES | Cole Information Services |

# FINDINGS

**1932 SILVERWOOD CIR**

| *Year* | *Uses* | *Source* |
|---|---|---|
| 2017 | DANIEL MONTILLA | Cole Information Services |
| | DANIEL MONTILLA | Cole Information Services |
| 2014 | DANIEL MONTILLA | Cole Information Services |
| | DANIEL MONTILLA | Cole Information Services |
| 2009 | BILL ABRAMS | Cole Information Services |
| | BILL ABRAMS | Cole Information Services |
| 2004 | BILL ABRAMS | Cole Information Services |
| | BILL ABRAMS | Cole Information Services |
| 2002 | Abrams Bill | SBC PACIFIC BELL |
| 1999 | BILL ABRAMS | Cole Information Services |
| | BILL ABRAMS | Cole Information Services |
| 1996 | Abrams Bill | Pacific Bell |

**1941 SILVERWOOD CIR**

| *Year* | *Uses* | *Source* |
|---|---|---|
| 2017 | LUIS RODRIGUEZ | Cole Information Services |
| | LUIS RODRIGUEZ | Cole Information Services |
| 2014 | LUIS RODRIGUEZ | Cole Information Services |
| | LUIS RODRIGUEZ | Cole Information Services |
| 2009 | CURT LOPER | Cole Information Services |
| | CURT LOPER | Cole Information Services |
| 2004 | AFZAL FAROOKI | Cole Information Services |
| | AFZAL FAROOKI | Cole Information Services |
| 2002 | Farooki Kalim A | SBC PACIFIC BELL |
| | Farooki Kalim A | SBC PACIFIC BELL |
| 1999 | CURT LOPER | Cole Information Services |
| | CURT LOPER | Cole Information Services |
| 1996 | Farooki Kalim | Pacific Bell |
| | Farooki Kalim A | Pacific Bell |

**1942 SILVERWOOD CIR**

| *Year* | *Uses* | *Source* |
|---|---|---|
| 2017 | LAUREN WHITE | Cole Information Services |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 2017 | LAUREN WHITE | Cole Information Services |
| 2014 | AMY BEYERSDORF | Cole Information Services |
| | AMY BEYERSDORF | Cole Information Services |
| 1996 | Turner Keith | Pacific Bell |
| 1993 | Turner Keith | Pacific Bell |
| 1990 | Turner Keith | Pacific Bell |

**1951 SILVERWOOD CIR**

| Year | Uses | Source |
|---|---|---|
| 2017 | JAMES NGUYEN | Cole Information Services |
| | JAMES NGUYEN | Cole Information Services |
| 2014 | JAMES NGUYEN | Cole Information Services |
| | JAMES NGUYEN | Cole Information Services |
| 2009 | OCCUPANT UNKNOWN | Cole Information Services |
| | OCCUPANT UNKNOWN | Cole Information Services |
| 2004 | HANG NGUYEN | Cole Information Services |
| | HANG NGUYEN | Cole Information Services |
| 1994 | NGUYEN, BINH | Cole Information Services |
| | NGUYEN, BINH | Cole Information Services |

**1952 SILVERWOOD CIR**

| Year | Uses | Source |
|---|---|---|
| 2017 | NICOLAS CHIRIBAO | Cole Information Services |
| | NICOLAS CHIRIBAO | Cole Information Services |
| 2014 | NICOLAS CHIRIBAO | Cole Information Services |
| | NICOLAS CHIRIBAO | Cole Information Services |
| 2009 | RODOLFO ANTUNEZ | Cole Information Services |
| | RODOLFO ANTUNEZ | Cole Information Services |
| 2004 | LORENZO RIVERA | Cole Information Services |
| | LORENZO RIVERA | Cole Information Services |
| 1999 | RODOLFO ANTUNEZ | Cole Information Services |
| | RODOLFO ANTUNEZ | Cole Information Services |

# FINDINGS

## SILVERWOOD DR

**1901 SILVERWOOD DR**

| *Year* | *Uses* | *Source* |
|---|---|---|
| 2001 | SWAKIJeremy | Haines & Company, Inc. |

**1902 SILVERWOOD DR**

| *Year* | *Uses* | *Source* |
|---|---|---|
| 2001 | SPHAMKent | Haines & Company, Inc. |

**1911 SILVERWOOD DR**

| *Year* | *Uses* | *Source* |
|---|---|---|
| 2001 | WILLS Charles | Haines & Company, Inc. |

**1912 SILVERWOOD DR**

| *Year* | *Uses* | *Source* |
|---|---|---|
| 2001 | 0 TWEEDRRiand D | Haines & Company, Inc. |

**1921 SILVERWOOD DR**

| *Year* | *Uses* | *Source* |
|---|---|---|
| 2001 | SCOTTCharles | Haines & Company, Inc. |

**1922 SILVERWOOD DR**

| *Year* | *Uses* | *Source* |
|---|---|---|
| 2001 | XXXX | Haines & Company, Inc. |

**1931 SILVERWOOD DR**

| *Year* | *Uses* | *Source* |
|---|---|---|
| 2001 | KELLEGHAN Michael | Haines & Company, Inc. |

**1932 SILVERWOOD DR**

| *Year* | *Uses* | *Source* |
|---|---|---|
| 2001 | ABRAMSBIII | Haines & Company, Inc. |

**1941 SILVERWOOD DR**

| *Year* | *Uses* | *Source* |
|---|---|---|
| 2001 | SFAROOKIKalim A | Haines & Company, Inc. |
| | SFAROOKIKalim A | Haines & Company, Inc. |

# FINDINGS

**1942 SILVERWOOD DR**

| *Year* | *Uses* | *Source* |
|---|---|---|
| 2001 | SBEATTY Greg | Haines & Company, Inc. |

**1951 SILVERWOOD DR**

| *Year* | *Uses* | *Source* |
|---|---|---|
| 2001 | VANNGUYENBmh | Haines & Company, Inc. |

**1952 SILVERWOOD DR**

| *Year* | *Uses* | *Source* |
|---|---|---|
| 2001 | MARTINEZ Ronald | Haines & Company, Inc. |

## STONEWOOD CIR

**1901 STONEWOOD CIR**

| *Year* | *Uses* | *Source* |
|---|---|---|
| 2017 | BOB ELLIOTT | Cole Information Services |
| | BOB ELLIOTT | Cole Information Services |
| 2014 | BOB ELLIOTT | Cole Information Services |
| | BOB ELLIOTT | Cole Information Services |
| 2009 | BOB ELLIOTT | Cole Information Services |
| | BOB ELLIOTT | Cole Information Services |
| 2004 | BOB ELLIOTT | Cole Information Services |
| | BOB ELLIOTT | Cole Information Services |
| 2002 | Elliott Bob | SBC PACIFIC BELL |
| 1999 | BOB ELLIOTT | Cole Information Services |
| | BOB ELLIOTT | Cole Information Services |
| 1996 | Elliott Bob | Pacific Bell |
| 1994 | ELLIOTT, BOB | Cole Information Services |
| | ELLIOTT, BOB | Cole Information Services |
| 1993 | Elliott DA&PC | Pacific Bell |
| | Elliott Bob | Pacific Bell |
| 1990 | Elliott Bob | Pacific Bell |

# FINDINGS

**1902 STONEWOOD CIR**

| Year | Uses | Source |
|---|---|---|
| 2017 | DANIEL ANTONAROS | Cole Information Services |
| | DANIEL ANTONAROS | Cole Information Services |
| 2014 | DANIEL EDWARDS | Cole Information Services |
| | DANIEL EDWARDS | Cole Information Services |
| 2009 | DANIEL EDWARDS | Cole Information Services |
| | DANIEL EDWARDS | Cole Information Services |
| 2004 | DANIEL EDWARDS | Cole Information Services |
| | DANIEL EDWARDS | Cole Information Services |
| 1999 | DANIEL EDWARDS | Cole Information Services |
| | DANIEL EDWARDS | Cole Information Services |
| 1994 | DEMPSTER, STEVE | Cole Information Services |
| | DEMPSTER, STEVE | Cole Information Services |
| 1993 | Dempster Steve & Dawn | Pacific Bell |
| 1990 | Dempster Steve & Dawn | Pacific Bell |

**1911 STONEWOOD CIR**

| Year | Uses | Source |
|---|---|---|
| 2017 | MAJID HAQUANI | Cole Information Services |
| | MAJID HAQUANI | Cole Information Services |
| 2014 | MOHAMMED HAQUANI | Cole Information Services |
| | MOHAMMED HAQUANI | Cole Information Services |
| 2009 | MOHAMMED HAQUANI | Cole Information Services |
| | MOHAMMED HAQUANI | Cole Information Services |
| 2004 | MOHAMMED HAQUANI | Cole Information Services |
| | MOHAMMED HAQUANI | Cole Information Services |
| 2002 | Mirza Wajiha | SBC PACIFIC BELL |
| 1999 | MOHAMMED HAQUANI | Cole Information Services |
| | MOHAMMED HAQUANI | Cole Information Services |

**1912 STONEWOOD CIR**

| Year | Uses | Source |
|---|---|---|
| 2017 | STEPHEN HOLLYWOOD | Cole Information Services |
| | STEPHEN HOLLYWOOD | Cole Information Services |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 2014 | STEPHEN HOLLYWOOD | Cole Information Services |
| | STEPHEN HOLLYWOOD | Cole Information Services |
| 2009 | STEPHEN HOLLYWOOD | Cole Information Services |
| | STEPHEN HOLLYWOOD | Cole Information Services |
| 2004 | STEPHEN HOLLYWOOD | Cole Information Services |
| | STEPHEN HOLLYWOOD | Cole Information Services |
| 1999 | STEPHEN HOLLYWOOD | Cole Information Services |
| | STEPHEN HOLLYWOOD | Cole Information Services |

**1921 STONEWOOD CIR**

| Year | Uses | Source |
|---|---|---|
| 2017 | STEVEN DODD | Cole Information Services |
| | STEVEN DODD | Cole Information Services |
| 2014 | JON COLON | Cole Information Services |
| | JON COLON | Cole Information Services |
| 2009 | GABRIEL ALVAREZ | Cole Information Services |
| | GABRIEL ALVAREZ | Cole Information Services |
| 2004 | JON COLON | Cole Information Services |
| | JON COLON | Cole Information Services |
| 1999 | GABRIEL ALVAREZ | Cole Information Services |
| | GABRIEL ALVAREZ | Cole Information Services |

**1922 STONEWOOD CIR**

| Year | Uses | Source |
|---|---|---|
| 2014 | OCCUPANT UNKNOWN | Cole Information Services |
| | OCCUPANT UNKNOWN | Cole Information Services |
| 2009 | DAT NGUYEN | Cole Information Services |
| | DAT NGUYEN | Cole Information Services |
| 2004 | SUZETTE DOTSON | Cole Information Services |
| | CREATIONS PLUS | Cole Information Services |
| | SUZETTE DOTSON | Cole Information Services |
| | CREATIONS PLUS | Cole Information Services |
| 1999 | DAT NGUYEN | Cole Information Services |
| | DAT NGUYEN | Cole Information Services |

# FINDINGS

**1931 STONEWOOD CIR**

| Year | Uses | Source |
|---|---|---|
| 2017 | JORGE NUNEZ | Cole Information Services |
| | JORGE NUNEZ | Cole Information Services |
| 2014 | JORGE NUNEZ | Cole Information Services |
| | JORGE NUNEZ | Cole Information Services |
| 2009 | ROBIN IWANYLO | Cole Information Services |
| | ROBIN IWANYLO | Cole Information Services |
| 2004 | ROBIN IWANYLO | Cole Information Services |
| | ROBIN IWANYLO | Cole Information Services |
| 1999 | ROBIN IWANYLO | Cole Information Services |
| | ROBIN IWANYLO | Cole Information Services |
| 1994 | IWANYLO, ROBIN | Cole Information Services |
| | IWANYLO, ROBIN | Cole Information Services |
| 1993 | Iw anylo Robin | Pacific Bell |
| | Ixta Mario | Pacific Bell |

**1932 STONEWOOD CIR**

| Year | Uses | Source |
|---|---|---|
| 2017 | DAVID HICKS | Cole Information Services |
| | DAVID HICKS | Cole Information Services |
| 2014 | DAVID HICKS | Cole Information Services |
| | DAVID HICKS | Cole Information Services |
| 2009 | DAVID HICKS | Cole Information Services |
| | DAVID HICKS | Cole Information Services |
| 2004 | DAVID HICKS | Cole Information Services |
| | DAVID HICKS | Cole Information Services |
| 1999 | DAVID HICKS | Cole Information Services |
| | DAVID HICKS | Cole Information Services |

**1941 STONEWOOD CIR**

| Year | Uses | Source |
|---|---|---|
| 2017 | TUNG TRINH | Cole Information Services |
| | TUNG TRINH | Cole Information Services |
| 2014 | TUNG TRINH | Cole Information Services |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 2014 | TUNG TRINH | Cole Information Services |
| 2009 | TUNG TRINH | Cole Information Services |
| | TUNG TRINH | Cole Information Services |
| 2004 | THAISON TRINH | Cole Information Services |
| | THAISON TRINH | Cole Information Services |
| 1999 | TUNG TRINH | Cole Information Services |
| | TUNG TRINH | Cole Information Services |

**1942 STONEWOOD CIR**

| Year | Uses | Source |
|---|---|---|
| 2017 | STEVE RONKES | Cole Information Services |
| | STEVE RONKES | Cole Information Services |
| 2014 | STEVEN RONKES | Cole Information Services |
| | STEVEN RONKES | Cole Information Services |
| 2009 | STEVEN RONKES | Cole Information Services |
| | STEVEN RONKES | Cole Information Services |
| 2004 | STEVEN RONKES | Cole Information Services |
| | STEVEN RONKES | Cole Information Services |
| 1999 | STEVEN RONKES | Cole Information Services |
| | STEVEN RONKES | Cole Information Services |

**1951 STONEWOOD CIR**

| Year | Uses | Source |
|---|---|---|
| 2017 | NASIM MALI | Cole Information Services |
| | NASIM MALI | Cole Information Services |
| 2014 | MEHRAN SHAHLORI | Cole Information Services |
| | MEHRAN SHAHLORI | Cole Information Services |
| 2009 | JAMES LAIRMORE | Cole Information Services |
| | JAMES LAIRMORE | Cole Information Services |
| 2004 | JAMES LAIRMORE | Cole Information Services |
| | JAMES LAIRMORE | Cole Information Services |
| 1999 | JAMES LAIRMORE | Cole Information Services |
| | JAMES LAIRMORE | Cole Information Services |

**1952 STONEWOOD CIR**

| Year | Uses | Source |
|---|---|---|
| 2017 | CHRIS NORWALT-JR | Cole Information Services |
| | CHRIS NORWALT-JR | Cole Information Services |
| 2014 | STEVEN UMBER | Cole Information Services |
| | STEVEN UMBER | Cole Information Services |
| 2009 | STEVEN UMBER | Cole Information Services |
| | STEVEN UMBER | Cole Information Services |
| 2004 | STEVEN UMBER | Cole Information Services |
| | STEVEN UMBER | Cole Information Services |
| 1999 | STEVEN UMBER | Cole Information Services |
| | STEVEN UMBER | Cole Information Services |

## STONEWOOD CT

**1901 STONEWOOD CT**

| Year | Uses | Source |
|---|---|---|
| 2001 | ELLIOTTBob | Haines & Company, Inc. |

**1902 STONEWOOD CT**

| Year | Uses | Source |
|---|---|---|
| 2001 | RONDINIRobert | Haines & Company, Inc. |

**1911 STONEWOOD CT**

| Year | Uses | Source |
|---|---|---|
| 2001 | MIRZAWa 9iha | Haines & Company, Inc. |
| | HAQUANIMohammed L | Haines & Company, Inc. |

**1912 STONEWOOD CT**

| Year | Uses | Source |
|---|---|---|
| 2001 | HOLLYWOODS 1ephe O | Haines & Company, Inc. |

**1921 STONEWOOD CT**

| Year | Uses | Source |
|---|---|---|
| 2001 | OCISNEROSMano | Haines & Company, Inc. |

# FINDINGS

**1922 STONEWOOD CT**

| *Year* | *Uses* | *Source* |
|---|---|---|
| 2001 | DOTSON Michael | Haines & Company, Inc. |

**1931 STONEWOOD CT**

| *Year* | *Uses* | *Source* |
|---|---|---|
| 2001 | IWANYLO Roban | Haines & Company, Inc. |

**1932 STONEWOOD CT**

| *Year* | *Uses* | *Source* |
|---|---|---|
| 2001 | HICKS Davd 00 B | Haines & Company, Inc. |

**1941 STONEWOOD CT**

| *Year* | *Uses* | *Source* |
|---|---|---|
| 2001 | TRINHTung 00 B | Haines & Company, Inc. |

**1951 STONEWOOD CT**

| *Year* | *Uses* | *Source* |
|---|---|---|
| 2001 | IWANYLOGe Srald 00 B | Haines & Company, Inc. |

**1952 STONEWOOD CT**

| *Year* | *Uses* | *Source* |
|---|---|---|
| 2001 | UMBERSleven | Haines & Company, Inc. |

## TALSHIRE LN

**1974 TALSHIRE LN**

| *Year* | *Uses* | *Source* |
|---|---|---|
| 2017 | FRANCIS SIMPSON | Cole Information Services |
| | FRANCIS SIMPSON | Cole Information Services |
| 2014 | DELRON SIMPSON | Cole Information Services |
| | DELRON SIMPSON | Cole Information Services |
| 2009 | FRANCIS SIMPSON | Cole Information Services |
| | FRANCIS SIMPSON | Cole Information Services |
| 2004 | HUMBERTO JUAREZ | Cole Information Services |
| | HUMBERTO JUAREZ | Cole Information Services |
| 2001 | JUAREZDavid | Haines & Company, Inc. |

| Year | Uses | Source |
|---|---|---|
| 1999 | FRANCIS SIMPSON | Cole Information Services |
| | FRANCIS SIMPSON | Cole Information Services |

**1975 TALSHIRE LN**

| Year | Uses | Source |
|---|---|---|
| 2017 | CARLOS GUERRERO | Cole Information Services |
| | CARLOS GUERRERO | Cole Information Services |
| 2014 | CARLOS GUERRERO | Cole Information Services |
| | CARLOS GUERRERO | Cole Information Services |
| 2009 | OCCUPANT UNKNOWN | Cole Information Services |
| | OCCUPANT UNKNOWN | Cole Information Services |
| 2004 | OCCUPANT UNKNOWN | Cole Information Services |
| | OCCUPANT UNKNOWN | Cole Information Services |
| 2001 | FARDMoslala | Haines & Company, Inc. |
| 1990 | Truong Tung | Pacific Bell |

**1980 TALSHIRE LN**

| Year | Uses | Source |
|---|---|---|
| 2017 | ROBERT MONCAYO | Cole Information Services |
| | ROBERT MONCAYO | Cole Information Services |
| 2014 | ROBERT MONCAYO | Cole Information Services |
| | ROBERT MONCAYO | Cole Information Services |
| 2009 | ROBERT MONCAYO | Cole Information Services |
| | ROBERT MONCAYO | Cole Information Services |
| 2004 | ROBERT MONCAYO | Cole Information Services |
| | ROBERT MONCAYO | Cole Information Services |
| 2001 | STRAUSBAUGHLaurie | Haines & Company, Inc. |
| 1999 | ROBERT MONCAYO | Cole Information Services |
| | ROBERT MONCAYO | Cole Information Services |
| 1996 | Haupt Gregory | Pacific Bell |
| 1994 | HAUPT, GREGORY | Cole Information Services |
| | HAUPT, GREGORY | Cole Information Services |
| 1993 | Haupt Gregory | Pacific Bell |
| 1990 | Haupt Gregory | Pacific Bell |

# FINDINGS

**1981 TALSHIRE LN**

| Year | Uses | Source |
|---|---|---|
| 2017 | TUNG NGUYEN | Cole Information Services |
| | TUNG NGUYEN | Cole Information Services |
| 2014 | TUNG TRUONG | Cole Information Services |
| | TUNG TRUONG | Cole Information Services |
| 2009 | LISA BUI | Cole Information Services |
| | LISA BUI | Cole Information Services |
| 2002 | Bui Lisa | SBC PACIFIC BELL |
| 1999 | LISA BUI | Cole Information Services |
| | LISA BUI | Cole Information Services |

**1986 TALSHIRE LN**

| Year | Uses | Source |
|---|---|---|
| 2017 | LUIS MUNOZ | Cole Information Services |
| | LUIS MUNOZ | Cole Information Services |
| 2014 | LUIS MUNOZ | Cole Information Services |
| | LUIS MUNOZ | Cole Information Services |
| 2009 | LUIS MUNOZ | Cole Information Services |
| | LUIS MUNOZ | Cole Information Services |
| 2004 | ESTEBAN RESENDIZ | Cole Information Services |
| | ESTEBAN RESENDIZ | Cole Information Services |
| 2002 | Segura Rocio | SBC PACIFIC BELL |
| 2001 | MUNOZLu Is | Haines & Company, Inc. |
| 1999 | LUIS MUNOZ | Cole Information Services |
| | LUIS MUNOZ | Cole Information Services |

**1987 TALSHIRE LN**

| Year | Uses | Source |
|---|---|---|
| 2017 | LIZANDRO CUELLAR | Cole Information Services |
| | LIZANDRO CUELLAR | Cole Information Services |
| 2014 | LIZANDRO CUELLAR | Cole Information Services |
| | LIZANDRO CUELLAR | Cole Information Services |
| 2009 | LIZANDRO CUELLAR | Cole Information Services |
| | LIZANDRO CUELLAR | Cole Information Services |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 2004 | LIZANDRO CUELLAR | Cole Information Services |
| | LIZANDRO CUELLAR | Cole Information Services |
| 2001 | PATTERSONA | Haines & Company, Inc. |
| 1999 | LIZANDRO CUELLAR | Cole Information Services |
| | OCCUPANT UNKNOWN | Cole Information Services |
| | LIZANDRO CUELLAR | Cole Information Services |
| | OCCUPANT UNKNOWN | Cole Information Services |

**1990 TALSHIRE LN**

| Year | Uses | Source |
|---|---|---|
| 2017 | DWAYNE REED | Cole Information Services |
| | DWAYNE REED | Cole Information Services |
| 2014 | DWAYNE REED | Cole Information Services |
| | DWAYNE REED | Cole Information Services |
| 2009 | DWAYNE REED | Cole Information Services |
| | DWAYNE REED | Cole Information Services |
| 2004 | DWAYNE REED | Cole Information Services |
| | ZERO TOLERANCE PSET ELMNTN CO | Cole Information Services |
| | DWAYNE REED | Cole Information Services |
| | ZERO TOLERANCE PSET ELMNTN CO | Cole Information Services |
| 2001 | FRELLY Robed | Haines & Company, Inc. |
| 1999 | DWAYNE REED | Cole Information Services |
| | DWAYNE REED | Cole Information Services |

**1991 TALSHIRE LN**

| Year | Uses | Source |
|---|---|---|
| 2017 | ROBERTO LARA | Cole Information Services |
| | ROBERTO LARA | Cole Information Services |
| 2009 | ROBERTO LARA | Cole Information Services |
| | ROBERTO LARA | Cole Information Services |
| 2004 | AMIN ATTIA | Cole Information Services |
| | AMIN ATTIA | Cole Information Services |
| 2001 | ATTIAAmlin | Haines & Company, Inc. |
| 1999 | ROBERTO LARA | Cole Information Services |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 1999 | ROBERTO LARA | Cole Information Services |

**1998 TALSHIRE LN**

| Year | Uses | Source |
|---|---|---|
| 2017 | CURTIS PFLAUMER | Cole Information Services |
| | CURTIS PFLAUMER | Cole Information Services |
| 2014 | CURTIS PFLAUMER | Cole Information Services |
| | CURTIS PFLAUMER | Cole Information Services |
| 2009 | EDUARDO PEREZ | Cole Information Services |
| | EDUARDO PEREZ | Cole Information Services |
| 2004 | EXPO GRAPHICS | Cole Information Services |
| | LEONOR PEREZ | Cole Information Services |
| | EXPO GRAPHICS | Cole Information Services |
| | LEONOR PEREZ | Cole Information Services |
| 2001 | PEREZ Eduardo | Haines & Company, Inc. |
| 1999 | EDUARDO PEREZ | Cole Information Services |
| | EDUARDO PEREZ | Cole Information Services |
| 1996 | JACKSON ROBT J | Pacific Bell |

**1999 TALSHIRE LN**

| Year | Uses | Source |
|---|---|---|
| 2017 | MANMOHAM SINGH | Cole Information Services |
| | MANMOHAM SINGH | Cole Information Services |
| 2014 | MANMOHAM SINGH | Cole Information Services |
| | MANMOHAM SINGH | Cole Information Services |
| 2009 | MS LAWN SPECIALIST | Cole Information Services |
| | OCCUPANT UNKNOWN | Cole Information Services |
| | MS LAWN SPECIALIST | Cole Information Services |
| | OCCUPANT UNKNOWN | Cole Information Services |
| 2004 | OCCUPANT UNKNOWN | Cole Information Services |
| | OCCUPANT UNKNOWN | Cole Information Services |
| 1994 | REYES, MARIO | Cole Information Services |
| | REYES, MARIO | Cole Information Services |
| 1993 | Reyes Mario & Janese | Pacific Bell |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 1990 | Reyes Mario & Janese | Pacific Bell |

## TANFORD LN

### 1001 TANFORD LN

| Year | Uses | Source |
|---|---|---|
| 2017 | LISA VANNGUYEN | Cole Information Services |
| | LISA VANNGUYEN | Cole Information Services |
| 2014 | LISA VANNGUYEN | Cole Information Services |
| | LISA VANNGUYEN | Cole Information Services |
| 2009 | DAVID CHAVEZ | Cole Information Services |
| | DAVID CHAVEZ | Cole Information Services |
| 2004 | OCCUPANT UNKNOWN | Cole Information Services |
| | FIVE STARS AUTO CARE | Cole Information Services |
| | HOUSE OF WISDOM | Cole Information Services |
| | OCCUPANT UNKNOWN | Cole Information Services |
| | FIVE STARS AUTO CARE | Cole Information Services |
| | HOUSE OF WISDOM | Cole Information Services |
| 2002 | Hashemi Sadiq M | SBC PACIFIC BELL |
| 2001 | BISHOPAnna | Haines & Company, Inc. |
| 1999 | DAVID CHAVEZ | Cole Information Services |
| | DAVID CHAVEZ | Cole Information Services |
| 1994 | GORDERO, D | Cole Information Services |
| | GORDERO, D | Cole Information Services |

### 1009 TANFORD LN

| Year | Uses | Source |
|---|---|---|
| 2017 | CAROLINE HABASHY | Cole Information Services |
| | CAROLINE HABASHY | Cole Information Services |
| 2014 | NADER HANNA | Cole Information Services |
| | NADER HANNA | Cole Information Services |
| 2009 | NADER HANNA | Cole Information Services |
| | NADER HANNA | Cole Information Services |
| 2004 | NANCY KO | Cole Information Services |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 2004 | NANCY KO | Cole Information Services |
| 2002 | Keeton Aaron | SBC PACIFIC BELL |
| 2001 | KOLlsa C | Haines & Company, Inc. |
| 1999 | NADER HANNA | Cole Information Services |
| | NADER HANNA | Cole Information Services |

**1017 TANFORD LN**

| Year | Uses | Source |
|---|---|---|
| 2017 | MICHAEL EATHERTON | Cole Information Services |
| | MICHAEL EATHERTON | Cole Information Services |
| 2014 | THOMAS MONTGOMERY | Cole Information Services |
| | THOMAS MONTGOMERY | Cole Information Services |
| 2009 | STEVEN BROWN | Cole Information Services |
| | STEVEN BROWN | Cole Information Services |
| 2004 | DOUCETTE TAX SERVICE | Cole Information Services |
| | DOUCETTE TAX SERVICE | Cole Information Services |
| 2001 | ODOUCETTE Douglas | Haines & Company, Inc. |
| 1999 | OCCUPANT UNKNOWN | Cole Information Services |
| | STEVEN BROWN | Cole Information Services |
| | OCCUPANT UNKNOWN | Cole Information Services |
| | STEVEN BROWN | Cole Information Services |

**1027 TANFORD LN**

| Year | Uses | Source |
|---|---|---|
| 2017 | MICHAEL GAMMON | Cole Information Services |
| | MICHAEL GAMMON | Cole Information Services |
| 2014 | MICHAEL GAMMON | Cole Information Services |
| | MICHAEL GAMMON | Cole Information Services |
| 2009 | MICHAEL GAMMON | Cole Information Services |
| | MICHAEL GAMMON | Cole Information Services |
| 2001 | GAMMON Michael | Haines & Company, Inc. |
| 1999 | MICHAEL GAMMON | Cole Information Services |
| | MICHAEL GAMMON | Cole Information Services |

# FINDINGS

**1037 TANFORD LN**

| Year | Uses | Source |
|---|---|---|
| 2017 | JEFF FENN | Cole Information Services |
| | JEFF FENN | Cole Information Services |
| 2014 | JEFF FENN | Cole Information Services |
| | JEFF FENN | Cole Information Services |
| 2009 | JEFF FENN | Cole Information Services |
| | JEFF FENN | Cole Information Services |
| 2004 | JEFF FENN | Cole Information Services |
| | JEFF FENN | Cole Information Services |
| 2002 | Fenn Jeff E | SBC PACIFIC BELL |
| 2001 | OWALDVOGELDavid | Haines & Company, Inc. |
| 1999 | JEFF FENN | Cole Information Services |
| | OCCUPANT UNKNOWN | Cole Information Services |
| | JEFF FENN | Cole Information Services |
| | OCCUPANT UNKNOWN | Cole Information Services |

**1047 TANFORD LN**

| Year | Uses | Source |
|---|---|---|
| 2017 | MAURICE PARHAM | Cole Information Services |
| | MAURICE PARHAM | Cole Information Services |
| 2014 | MAURICE PARHAM | Cole Information Services |
| | MAURICE PARHAM | Cole Information Services |
| 2009 | DANIEL ENRIQUEZ | Cole Information Services |
| | DANIEL ENRIQUEZ | Cole Information Services |
| 2004 | DANIEL ENRIQUEZ | Cole Information Services |
| | DANIEL ENRIQUEZ | Cole Information Services |
| 1999 | DANIEL ENRIQUEZ | Cole Information Services |
| | OCCUPANT UNKNOWN | Cole Information Services |
| | DANIEL ENRIQUEZ | Cole Information Services |
| | OCCUPANT UNKNOWN | Cole Information Services |

**1057 TANFORD LN**

| Year | Uses | Source |
|---|---|---|
| 2014 | KIRK KNALSON | Cole Information Services |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 2014 | KIRK KNALSON | Cole Information Services |
| 2009 | KYLE KNALSON | Cole Information Services |
| | KYLE KNALSON | Cole Information Services |
| 2004 | KIRK KNALSON | Cole Information Services |
| | KIRK KNALSON | Cole Information Services |
| 2001 | KNALSONKirk | Haines & Company, Inc. |
| 1999 | KYLE KNALSON | Cole Information Services |
| | KYLE KNALSON | Cole Information Services |
| 1996 | Yim Steve Y | Pacific Bell |
| 1994 | YIM, STEVE Y | Cole Information Services |
| | YIM, STEVE Y | Cole Information Services |
| 1993 | AW I Industries USA Inc | Pacific Bell |
| | AYSO @Corona@ Norco | Pacific Bell |
| | Aacacia Animal Hospital | Pacific Bell |
| | Yim Steve Y | Pacific Bell |
| | Yimternational Products & Services Inc | Pacific Bell |
| | Yingling C E | Pacific Bell |
| | Yingling R D | Pacific Bell |

**1067 TANFORD LN**

| Year | Uses | Source |
|---|---|---|
| 2017 | MICKEY JOHNSON | Cole Information Services |
| | MICKEY JOHNSON | Cole Information Services |
| 2014 | DAREL JOHNSON | Cole Information Services |
| | DAREL JOHNSON | Cole Information Services |
| 2009 | MICKEY JOHNSON | Cole Information Services |
| | MICKEY JOHNSON | Cole Information Services |
| 2004 | BARABARA BARTHOLOMEW | Cole Information Services |
| | BARABARA BARTHOLOMEW | Cole Information Services |
| 2001 | JOHNSONDarel | Haines & Company, Inc. |
| 1999 | MICKEY JOHNSON | Cole Information Services |
| | MICKEY JOHNSON | Cole Information Services |

# FINDINGS

**1077 TANFORD LN**

| Year | Uses | Source |
|---|---|---|
| 2017 | ANNA NGUYEN | Cole Information Services |
| | ANNA NGUYEN | Cole Information Services |
| 2014 | ANNA NGUYEN | Cole Information Services |
| | ANNA NGUYEN | Cole Information Services |
| 2009 | OCCUPANT UNKNOWN | Cole Information Services |
| | OCCUPANT UNKNOWN | Cole Information Services |
| 2004 | A FURNITURE MANAGEMENT GROUP | Cole Information Services |
| | RANDY LECLAIR | Cole Information Services |
| | A FURNITURE MANAGEMENT GROUP | Cole Information Services |
| | RANDY LECLAIR | Cole Information Services |
| 2002 | Benvenuto Hugo | SBC PACIFIC BELL |
| 2001 | 8 ENVENUTOHugo | Haines & Company, Inc. |
| 1999 | GILBERT MARTINEZ | Cole Information Services |
| | GILBERT MARTINEZ | Cole Information Services |

**1087 TANFORD LN**

| Year | Uses | Source |
|---|---|---|
| 2017 | PATERNO BARCELONA | Cole Information Services |
| | PATERNO BARCELONA | Cole Information Services |
| 2014 | OCCUPANT UNKNOWN | Cole Information Services |
| | OCCUPANT UNKNOWN | Cole Information Services |
| 2009 | OCCUPANT UNKNOWN | Cole Information Services |
| | OCCUPANT UNKNOWN | Cole Information Services |
| 2004 | OCCUPANT UNKNOWN | Cole Information Services |
| | OCCUPANT UNKNOWN | Cole Information Services |
| 2002 | Williams L | SBC PACIFIC BELL |
| 2001 | AHLUWALIAManmohan | Haines & Company, Inc. |
| 1999 | OCCUPANT UNKNOWN | Cole Information Services |
| | OCCUPANT UNKNOWN | Cole Information Services |

**1097 TANFORD LN**

| Year | Uses | Source |
|---|---|---|
| 2017 | JEFFREY AGUILAR | Cole Information Services |

| Year | Uses | Source |
|---|---|---|
| 2017 | JEFFREY AGUILAR | Cole Information Services |
| 2014 | ANDREA ALVAREZ | Cole Information Services |
| | ANDREA ALVAREZ | Cole Information Services |
| 2009 | SAUL LOPEZ | Cole Information Services |
| | SAUL LOPEZ | Cole Information Services |
| 2004 | SAUL LOPEZ | Cole Information Services |
| | SAUL LOPEZ | Cole Information Services |
| 2001 | GUTIERREZJose | Haines & Company, Inc. |
| 1999 | SAUL LOPEZ | Cole Information Services |
| | SAUL LOPEZ | Cole Information Services |
| 1993 | Duarte E | Pacific Bell |
| | Duarte Art & Margie | Pacific Bell |
| | Du Yeung K & Sook | Pacific Bell |
| 1990 | Du Yeung K & Sook | Pacific Bell |

## YARDLEY WAY

**1073 YARDLEY WAY**

| Year | Uses | Source |
|---|---|---|
| 2017 | HAMIDO SABADIA | Cole Information Services |
| | HAMIDO SABADIA | Cole Information Services |
| 2014 | HAMIDO SABADIA | Cole Information Services |
| | HAMIDO SABADIA | Cole Information Services |
| 2009 | TECHTRADE ENTERPRISES | Cole Information Services |
| | MOOSA SABADIA | Cole Information Services |
| | TECHTRADE ENTERPRISES | Cole Information Services |
| | MOOSA SABADIA | Cole Information Services |
| 2004 | TECH TRADE ENTERPRISES | Cole Information Services |
| | TECH TRADE ENTERPRISES | Cole Information Services |
| 2001 | SABADIARahilr | Haines & Company, Inc. |
| 1999 | MOOSA SABADIA | Cole Information Services |
| | MOOSA SABADIA | Cole Information Services |
| 1990 | Noormohamed M Z | Pacific Bell |

# FINDINGS

**1085 YARDLEY WAY**

| *Year* | *Uses* | *Source* |
|---|---|---|
| 2017 | GEORGE COURIER | Cole Information Services |
| | GEORGE COURIER | Cole Information Services |
| 2014 | OCCUPANT UNKNOWN | Cole Information Services |
| | OCCUPANT UNKNOWN | Cole Information Services |
| 2009 | JOSEPH GAYLE | Cole Information Services |
| | JOSEPH GAYLE | Cole Information Services |
| 2004 | JOSEPH GAYLE | Cole Information Services |
| | JOSEPH GAYLE | Cole Information Services |
| 1999 | JOSEPH GAYLE | Cole Information Services |
| | JOSEPH GAYLE | Cole Information Services |

**1095 YARDLEY WAY**

| *Year* | *Uses* | *Source* |
|---|---|---|
| 2001 | JONES Dael | Haines & Company, Inc. |

**1097 YARDLEY WAY**

| *Year* | *Uses* | *Source* |
|---|---|---|
| 2017 | TIMOTHY BAUCHER | Cole Information Services |
| | TIMOTHY BAUCHER | Cole Information Services |
| 2014 | MARIA ZAMORABAUCHER | Cole Information Services |
| | MARIA ZAMORABAUCHER | Cole Information Services |
| 2009 | OCCUPANT UNKNOWN | Cole Information Services |
| | OCCUPANT UNKNOWN | Cole Information Services |
| 2004 | BILL EGRY | Cole Information Services |
| | CIRCLE CITY VIBRATORY FEEDERS | Cole Information Services |
| | DOUGLAS WILCOX | Cole Information Services |
| | BILL EGRY | Cole Information Services |
| | CIRCLE CITY VIBRATORY FEEDERS | Cole Information Services |
| | DOUGLAS WILCOX | Cole Information Services |
| 2002 | Wilcox Douglas | SBC PACIFIC BELL |
| 2001 | WILCOXDooglas | Haines & Company, Inc. |
| 1996 | Egry Bela | Pacific Bell |
| | Wilcox Douglas | Pacific Bell |

# FINDINGS

| *Year* | *Uses* | *Source* |
|---|---|---|
| 1994 | WILCOX, DOUGLAS | Cole Information Services |
| | WILCOX, DOUGLAS | Cole Information Services |

# FINDINGS

## ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not identified in research source.

| Address Researched | Address Not Identified in Research Source |
|---|---|
| 1001 TANFORD LN | 2017, 2014, 2009, 2004, 1999, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1001 TANFORD LN | 2002, 2001, 1996, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1009 TANFORD LN | 2002, 2001, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1009 TANFORD LN | 2017, 2014, 2009, 2004, 1999, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1017 TANFORD LN | 2017, 2014, 2009, 2004, 2002, 1999, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1017 TANFORD LN | 2002, 2001, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1027 TANFORD LN | 2004, 2002, 2001, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1027 TANFORD LN | 2017, 2014, 2009, 2004, 2002, 1999, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1035 RIDGEWOOD DR | 2017, 2014, 2009, 2004, 2002, 1999, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1035 RIDGEWOOD DR | 2017, 2009, 2002, 2001, 1999, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1037 TANFORD LN | 2002, 2001, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1037 TANFORD LN | 2017, 2014, 2009, 2004, 1999, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1043 RIDGEWOOD DR | 2017, 2014, 2009, 2004, 2002, 1999, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1043 RIDGEWOOD DR | 2002, 2001, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |

# FINDINGS

| Address Researched | Address Not Identified in Research Source |
|---|---|
| 1047 TANFORD LN | 2002, 2001, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1051 RIDGEWOOD DR | 2002, 2001, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1051 RIDGEWOOD DR | 2017, 2014, 2009, 2004, 2002, 1999, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1057 TANFORD LN | 2017, 2014, 2009, 2004, 2002, 1999, 1994, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1057 TANFORD LN | 2017, 2002, 2001, 1996, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1059 RIDGEWOOD DR | 2002, 2001, 1996, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1059 RIDGEWOOD DR | 2017, 2014, 2009, 2004, 2002, 1999, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1067 RIDGEWOOD DR | 2017, 2014, 2009, 2004, 1999, 1996, 1994, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1067 RIDGEWOOD DR | 2002, 2001, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1067 TANFORD LN | 2002, 2001, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1067 TANFORD LN | 2017, 2014, 2009, 2004, 2002, 1999, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1073 YARDLEY WAY | 2017, 2014, 2009, 2004, 2002, 1999, 1996, 1994, 1993, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1073 YARDLEY WAY | 2002, 2001, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1075 RIDGEWOOD DR | 2002, 2001, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1075 RIDGEWOOD DR | 2017, 2014, 2009, 2004, 1999, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1077 TANFORD LN | 2017, 2014, 2009, 2004, 1999, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |

# FINDINGS

| Address Researched | Address Not Identified in Research Source |
|---|---|
| 1077 TANFORD LN | 2002, 2001, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1083 RIDGEWOOD DR | 2002, 2001, 1996, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1083 RIDGEWOOD DR | 2017, 2014, 2009, 2004, 1999, 1994, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1085 YARDLEY WAY | 2002, 2001, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1087 RIDGEWOOD DR | 2017, 2009, 2002, 2001, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1087 RIDGEWOOD DR | 2017, 2014, 2009, 2004, 2002, 1999, 1996, 1994, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1087 TANFORD LN | 2017, 2014, 2009, 2004, 1999, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1087 TANFORD LN | 2002, 2001, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1093 RIDGEWOOD DR | 2002, 2001, 1996, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1093 RIDGEWOOD DR | 2017, 2014, 2009, 2004, 1999, 1996, 1994, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1095 YARDLEY WAY | 2017, 2014, 2009, 2004, 2002, 1999, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1097 TANFORD LN | 2017, 2014, 2009, 2004, 2002, 1999, 1996, 1994, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1097 TANFORD LN | 2002, 2001, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1097 YARDLEY WAY | 2017, 2014, 2009, 2004, 1999, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1097 YARDLEY WAY | 2002, 2001, 1999, 1996, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1099 RIDGEWOOD DR | 2002, 2001, 1999, 1996, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |

# FINDINGS

| Address Researched | Address Not Identified in Research Source |
|---|---|
| 1099 RIDGEWOOD DR | 2017, 2014, 2009, 2004, 1999, 1994, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1100 OLYMPIC DR | 2002, 2001, 1996, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1100 Olympic Drive | 2017, 2014, 2009, 2004, 1999, 1994, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1101 BAYWOOD DR | 2002, 2001, 1996, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1101 BAYWOOD DR E | 2017, 2014, 2009, 2004, 2001, 1999, 1996, 1994, 1993, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1121 BAYWOOD DR | 2002, 2001, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1121 BAYWOOD DR E | 2017, 2014, 2009, 2004, 2001, 1999, 1996, 1994, 1993, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1131 SAN MARINO CIR | 2017, 2014, 2009, 2004, 2002, 2001, 1999, 1996, 1994, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1131 SAN MARINO CT | 2017, 2014, 2009, 2004, 2001, 1999, 1994, 1993, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1131 SAN MARINO CT | 2002, 2001, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1141 BAYWOOD DR | 2002, 2001, 1996, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1141 BAYWOOD DR E | 2017, 2014, 2009, 2004, 2002, 2001, 1999, 1994, 1993, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1150 OLD TEMESCAL RD | 2017, 2014, 2009, 2004, 2002, 1999, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1161 BAYWOOD DR | 2002, 2001, 1996, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1161 BAYWOOD DR E | 2017, 2014, 2009, 2004, 2001, 1999, 1996, 1994, 1993, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1171 BAYWOOD DR | 2002, 2001, 1996, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |

# FINDINGS

| Address Researched | Address Not Identified in Research Source |
|---|---|
| 1171 BAYWOOD DR E | 2017, 2014, 2009, 2004, 2001, 1999, 1994, 1993, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1515 HIDEAWAY PL | 2017, 2014, 2009, 2004, 2002, 2001, 1999, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1801 HIDEAWAY PL | 2017, 2014, 2009, 2004, 1999, 1994, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1801 HIDEAWAY PL | 2002, 2001, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1810 FULLERTON AVE | 2004, 2002, 2001, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1810 Fullerton Avenue | 2017, 2014, 2009, 2004, 2002, 2001, 1999, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1813 HIDEAWAY PL | 2002, 2001, 1996, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1813 HIDEAWAY PL | 2017, 2014, 2009, 2004, 1999, 1996, 1994, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1825 HIDEAWAY PL | 2002, 2001, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1825 HIDEAWAY PL | 2017, 2014, 2009, 2004, 1999, 1994, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1837 HIDEAWAY PL | 2017, 2014, 2009, 2004, 1999, 1994, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1837 HIDEAWAY PL | 2002, 2001, 1996, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1849 BAYWOOD DR | 2002, 2001, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1849 Baywood Drive | 2017, 2014, 2009, 2004, 2001, 1999, 1994, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1849 HIDEAWAY PL | 2002, 2001, 1996, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1849 HIDEAWAY PL | 2017, 2014, 2009, 2004, 1999, 1994, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |

# FINDINGS

| Address Researched | Address Not Identified in Research Source |
|---|---|
| 1855 HIDEAWAY PL | 2017, 2014, 2009, 2004, 1999, 1996, 1994, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1855 HIDEAWAY PL | 2002, 2001, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1857 BAYWOOD DR | 2002, 2001, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1857 BAYWOOD DR | 2017, 2014, 2009, 2004, 2001, 1999, 1996, 1994, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1861 BAYWOOD DR | 2017, 2014, 2002, 2001, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1861 HIDEAWAY PL | 2002, 2001, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1861 HIDEAWAY PL | 2017, 2014, 2009, 2004, 2002, 1999, 1996, 1994, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1864 BAYWOOD DR | 2017, 2014, 2009, 2004, 2001, 1999, 1994, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1864 BAYWOOD DR | 2002, 2001, 1996, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1865 BAYWOOD DR | 2002, 2001, 1996, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1865 BAYWOOD DR | 2017, 2014, 2009, 2004, 2001, 1999, 1996, 1994, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1865 HIDEAWAY PL | 2017, 2014, 2009, 2004, 2002, 2001, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1873 BAYWOOD DR | 2002, 2001, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1873 BAYWOOD DR | 2017, 2014, 2009, 2004, 2001, 1999, 1994, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1873 BAYWOODS DR | 2017, 2014, 2009, 2004, 2002, 2001, 1999, 1996, 1994, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1874 BAYWOOD DR | 2017, 2009, 2004, 2002, 2001, 1999, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |

# FINDINGS

| Address Researched | Address Not Identified in Research Source |
|---|---|
| 1878 BAYWOOD DR | 2002, 2001, 1996, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1878 BAYWOOD DR | 2017, 2014, 2009, 2004, 2001, 1999, 1994, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1880 BAYWOOD DR | 2017, 2014, 2009, 2004, 2001, 1999, 1994, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1880 BAYWOOD DR | 2002, 2001, 1996, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1880 BAYWOOD DR E | 2017, 2014, 2009, 2004, 2002, 2001, 1999, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1881 BAYWOOD DR | 2017, 2014, 2009, 2004, 2001, 1999, 1996, 1994, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1881 BAYWOOD DR | 2002, 2001, 1996, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1884 RUSTRIDGE PL | 2002, 2001, 1996, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1884 RUSTRIDGE PL | 2017, 2014, 2009, 2004, 1999, 1996, 1994, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1901 JENNA CIR | 2017, 2014, 2009, 2004, 2002, 1999, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1901 SILVERWOOD CIR | 2002, 2001, 1999, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1901 SILVERWOOD DR | 2017, 2014, 2009, 2004, 2002, 1999, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1901 STONEWOOD CIR | 2017, 2014, 2009, 2004, 2001, 1999, 1994, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1901 STONEWOOD CIR | 2002, 2001, 1996, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1901 STONEWOOD CT | 2017, 2014, 2009, 2004, 2002, 1999, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1902 SILVERWOOD CIR | 2002, 2001, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |

# FINDINGS

| Address Researched | Address Not Identified in Research Source |
|---|---|
| 1902 SILVERWOOD DR | 2017, 2014, 2009, 2004, 2002, 1999, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1902 STONEWOOD CIR | 2017, 2014, 2009, 2004, 2002, 2001, 1999, 1996, 1994, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1902 STONEWOOD CIR | 2002, 2001, 1996, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1902 STONEWOOD CT | 2017, 2014, 2009, 2004, 2002, 1999, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1911 SILVERWOOD CIR | 2002, 2001, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1911 SILVERWOOD DR | 2017, 2014, 2009, 2004, 2002, 1999, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1911 STONEWOOD CIR | 2017, 2014, 2009, 2004, 2001, 1999, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1911 STONEWOOD CIR | 2002, 2001, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1911 STONEWOOD CT | 2017, 2014, 2009, 2004, 2002, 1999, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1912 SILVERWOOD CIR | 2017, 2014, 2009, 2004, 2001, 1999, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1912 SILVERWOOD CIR | 2002, 2001, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1912 SILVERWOOD DR | 2017, 2014, 2009, 2004, 2002, 1999, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1912 STONEWOOD CIR | 2002, 2001, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1912 STONEWOOD CT | 2017, 2014, 2009, 2004, 2002, 1999, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1921 SILVERWOOD CIR | 2017, 2014, 2009, 2004, 2002, 2001, 1999, 1996, 1994, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1921 SILVERWOOD CIR | 2002, 2001, 1996, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |

# FINDINGS

| Address Researched | Address Not Identified in Research Source |
|---|---|
| 1921 SILVERWOOD DR | 2017, 2014, 2009, 2004, 2002, 1999, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1921 STONEWOOD CIR | 2002, 2001, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1921 STONEWOOD CT | 2017, 2014, 2009, 2004, 2002, 1999, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1922 SILVERWOOD CIR | 2017, 2014, 2009, 2004, 2001, 1999, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1922 SILVERWOOD CIR | 2002, 2001, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1922 SILVERWOOD DR | 2017, 2014, 2009, 2004, 2002, 1999, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1922 STONEWOOD CIR | 2017, 2002, 2001, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1922 STONEWOOD CT | 2017, 2014, 2009, 2004, 2002, 1999, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1931 SILVERWOOD CIR | 2002, 2001, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1931 SILVERWOOD DR | 2017, 2014, 2009, 2004, 2002, 1999, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1931 STONEWOOD CIR | 2017, 2014, 2009, 2004, 2002, 2001, 1999, 1996, 1994, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1931 STONEWOOD CIR | 2002, 2001, 1996, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1931 STONEWOOD CT | 2017, 2014, 2009, 2004, 2002, 1999, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1932 RIMPAU AVE | 2017, 2014, 2009, 2004, 2002, 2001, 1999, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1932 SILVERWOOD CIR | 2017, 2014, 2009, 2004, 2001, 1999, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1932 SILVERWOOD CIR | 2002, 2001, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |

# FINDINGS

| Address Researched | Address Not Identified in Research Source |
|---|---|
| 1932 SILVERWOOD DR | 2017, 2014, 2009, 2004, 2002, 1999, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1932 STONEWOOD CIR | 2002, 2001, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1932 STONEWOOD CT | 2017, 2014, 2009, 2004, 2002, 1999, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1941 LYNWOOD CIR | 2017, 2014, 2009, 2004, 2002, 2001, 1999, 1996, 1994, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1941 LYNWOOD CIR | 2002, 2001, 1999, 1996, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1941 SILVERWOOD CIR | 2002, 2001, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1941 SILVERWOOD CIR | 2017, 2014, 2009, 2004, 2001, 1999, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1941 SILVERWOOD DR | 2017, 2014, 2009, 2004, 2002, 1999, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1941 STONEWOOD CIR | 2002, 2001, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1941 STONEWOOD CT | 2017, 2014, 2009, 2004, 2002, 1999, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1942 SILVERWOOD CIR | 2017, 2014, 2009, 2004, 2002, 2001, 1999, 1994, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1942 SILVERWOOD CIR | 2009, 2004, 2002, 2001, 1999, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1942 SILVERWOOD DR | 2017, 2014, 2009, 2004, 2002, 1999, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1942 STONEWOOD CIR | 2002, 2001, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1951 LYNWOOD CIR | 2002, 2001, 1999, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1951 SILVERWOOD CIR | 2002, 2001, 1999, 1996, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |

# FINDINGS

| Address Researched | Address Not Identified in Research Source |
|---|---|
| 1951 SILVERWOOD DR | 2017, 2014, 2009, 2004, 2002, 1999, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1951 STONEWOOD CIR | 2002, 2001, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1951 STONEWOOD CT | 2017, 2014, 2009, 2004, 2002, 1999, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1952 SILVERWOOD CIR | 2002, 2001, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1952 SILVERWOOD DR | 2017, 2014, 2009, 2004, 2002, 1999, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1952 STONEWOOD CIR | 2002, 2001, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1952 STONEWOOD CT | 2017, 2014, 2009, 2004, 2002, 1999, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1960 JENNA CIR | 2017, 2014, 2009, 2004, 2002, 1999, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1963 Rimpau Avenue | 2017, 2014, 2009, 2004, 2002, 2001, 1999, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1974 JENNA CIR | 2002, 2001, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1974 JENNA CIR | 2017, 2014, 2009, 2004, 2002, 1999, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1974 TALSHIRE LN | 2017, 2014, 2009, 2004, 2002, 1999, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1974 TALSHIRE LN | 2002, 2001, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1975 JENNA CIR | 2017, 2002, 2001, 1999, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1975 JENNA CIR | 2017, 2014, 2009, 2004, 2002, 1999, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1975 TALSHIRE LN | 2017, 2014, 2009, 2004, 2002, 1999, 1996, 1994, 1993, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |

# FINDINGS

| Address Researched | Address Not Identified in Research Source |
|---|---|
| 1975 TALSHIRE LN | 2002, 2001, 1999, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1980 FULLERTON AVE | 2002, 2001, 1996, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1980 Fullerton Avenue | 2017, 2014, 2009, 2004, 2002, 1999, 1996, 1994, 1990, 1986, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1980 JENNA CIR | 2017, 2004, 2002, 2001, 1996, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1980 JENNA CIR | 2017, 2014, 2009, 2004, 2001, 1999, 1994, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1980 TALSHIRE LN | 2017, 2014, 2009, 2004, 2002, 1999, 1994, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1980 TALSHIRE LN | 2002, 2001, 1996, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1981 JENNA CIR | 2002, 2001, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1981 JENNA CIR | 2017, 2014, 2009, 2004, 2002, 2001, 1999, 1996, 1994, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1981 TALSHIRE LN | 2017, 2014, 2009, 2004, 2001, 1999, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1981 TALSHIRE LN | 2004, 2002, 2001, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1986 JENNA CIR | 2002, 2001, 1996, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1986 JENNA CIR | 2017, 2014, 2009, 2004, 1999, 1994, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1986 TALSHIRE LN | 2017, 2014, 2009, 2004, 1999, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1986 TALSHIRE LN | 2002, 2001, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1987 JENNA CIR | 2017, 2009, 2002, 2001, 1999, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |

# FINDINGS

| Address Researched | Address Not Identified in Research Source |
|---|---|
| 1987 JENNA CIR | 2017, 2014, 2009, 2004, 2002, 1999, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1987 TALSHIRE LN | 2017, 2014, 2009, 2004, 2002, 1999, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1987 TALSHIRE LN | 2002, 2001, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1990 JENNA CIR | 2002, 2001, 1999, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1990 JENNA CIR | 2017, 2014, 2009, 2004, 1999, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1990 TALSHIRE LN | 2017, 2014, 2009, 2004, 2002, 1999, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1990 TALSHIRE LN | 2002, 2001, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1991 JENNA CIR | 2002, 2001, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1991 JENNA CIR | 2017, 2014, 2009, 2004, 2002, 1999, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1991 TALSHIRE LN | 2017, 2014, 2009, 2004, 2002, 1999, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1991 TALSHIRE LN | 2014, 2002, 2001, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1998 JENNA CIR | 2002, 2001, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1998 JENNA CIR | 2017, 2014, 2009, 2004, 2002, 1999, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1998 TALSHIRE LN | 2017, 2014, 2009, 2004, 2002, 1999, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1998 TALSHIRE LN | 2002, 2001, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1999 JENNA CIR | 2002, 2001, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |

# FINDINGS

| Address Researched | Address Not Identified in Research Source |
|---|---|
| 1999 JENNA CIR | 2017, 2014, 2009, 2004, 2002, 1999, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1999 TALSHIRE LN | 2017, 2014, 2009, 2004, 2002, 2001, 1999, 1996, 1994, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 1999 TALSHIRE LN | 2002, 2001, 1999, 1996, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 2101 HARVARD CIR | 2017, 2002, 2001, 1996, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 2101 HARVARD CIR | 2017, 2014, 2009, 2004, 2002, 2001, 1999, 1996, 1994, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 2101 HARVARD CT | 2017, 2014, 2009, 2004, 2002, 1999, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 2103 HARVARD CIR | 2017, 2014, 2009, 2004, 2001, 1999, 1994, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 2103 HARVARD CIR | 2002, 2001, 1996, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 2103 HARVARD CT | 2017, 2014, 2009, 2004, 2002, 1999, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 2108 HARVARD CIR | 2017, 2014, 2009, 2004, 2002, 2001, 1999, 1996, 1994, 1993, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 2108 HARVARD CIR | 2017, 2002, 2001, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 2108 HARVARD CT | 2017, 2014, 2009, 2004, 2002, 1999, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 886 MAGNOLIAAVE | 2002, 2001, 1996, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |
| 886 Magnolia Avenue | 2017, 2014, 2009, 2004, 2002, 2001, 1999, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |

## TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

| Address Researched | Address Not Identified in Research Source |
|---|---|
| 1820 Rimpau Avenue | 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921 |

# APPENDIX F
# HISTORICAL SANBORN MAPS

Centennial High School
1820 Rimpau Avenue
Corona, CA 92881

Inquiry Number: 7070636.3
July 29, 2022

# Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

# Certified Sanborn® Map Report

07/29/22

**Site Name:**

Centennial High School
1820 Rimpau Avenue
Corona, CA 92881
EDR Inquiry # 7070636.3

**Client Name:**

EEC
One City Boulevard West, Suite 1800
Orange, CA 92868
Contact: Laura Holder

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The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

## *Certified Sanborn Results:*

**Certification #** BA6D-4717-A34B

**PO #** NA

**Project** Centennial HS Phase I ESA

### UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.

Sanborn® Library search results

Certification #: BA6D-4717-A34B

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ☑ Library of Congress
- ☑ University Publications of America
- ☑ EDR Private Collection

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# APPENDIX G
# TITLE RECORDS

**CENTENNIAL HIGH SCHOOL**
1820 RIMPAU AVENUE
CORONA, CA 92881

**Inquiry Number: 7070636.7S**
AUGUST 4, 2022

# EDR Environmental Lien and AUL Search

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

# EDR Environmental Lien and AUL Search

The EDR Environmental Lien Search Report provides results from a search of available current land title records for environmental cleanup liens and other activity and use limitations, such as engineering controls and institutional controls.

A network of professional, trained researchers, following established procedures, uses client supplied address information to:

- search for parcel information and/or legal description;
- search for ownership information;
- research official land title documents recorded at jurisdictional agencies such as recorders' offices, registries of deeds, county clerks' offices, etc.;
- access a copy of the deed;
- search for environmental encumbering instrument(s) associated with the deed;
- provide a copy of any environmental encumbrance(s) based upon a review of key words in the instrument(s) (title, parties involved, and description); and
- provide a copy of the deed or cite documents reviewed.

**Thank you for your business.**
Please contact EDR at 1-800-352-0050
with any questions or comments.

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# EDR Environmental Lien and AUL Search

## TARGET PROPERTY INFORMATION

### ADDRESS

CENTENNIAL HIGH SCHOOL
1820 RIMPAU AVENUE
CORONA, CA 92881

### RESEARCH SOURCE

Source 1: RIVERSIDE COUNTY RECORDER'S OFFICE

Source 2: CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY

Source 3: UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

### PROPERTY INFORMATION

**Legal Description:** 39.51 ACRES IN LOTS 5, 6, 7 & 8 MB 009/006 SB SOUTH RIVERSIDE LAND & WATER CO
**Current Owner:** CORONA UNIFIED SCHOOL DISTRICT
**Property Identifiers:** 107-140-032
**Comments:** NO DEED FOUND 1980 - PRESENT.

# EDR Environmental Lien and AUL Search

**ENVIRONMENTAL LIEN**

Environmental Lien: Found ☐ Not Found ☒

Comments: NONE IDENTIFIED.

**OTHER ACTIVITY AND USE LIMITATIONS (AULS)**

Other AUL's: Found ☐ Not Found ☒

Comments: NONE IDENTIFIED.

# EDR Environmental Lien and AUL Search

**MISCELLANEOUS**

Comments: NONE IDENTIFIED.

FIDELITY NATIONAL TITLE GROUP
FNTG Western Region Energy Services
Chicago Title • Commonwealth • Fidelity National Title • Ticor Title

**Fidelity National Title Company**
4210 Riverwalk Parkway, Suite 200
Riverside, CA 92505
Phone: (951) 710-5912 • Fax:

Issuing Policies of Fidelity National Title Insurance Company

Title Officer: Mitch LaRiva
Escrow Officer: Major Accounts OAC

Order No.: 997-**30078044**-ML6

TO:

AEI Consultants
8885 Rio San Diego Drive, Suite 257
San Diego, CA 92106

ATTN: **Jen Johns**
YOUR REFERENCE: **453400**

**PROPERTY ADDRESS: 1820 Rimpau Avenue, Corona, CA**

## PRELIMINARY REPORT

*In response to the application for a policy of title insurance referenced herein,* ***Fidelity National Title Company*** *hereby reports that it is prepared to issue, or cause to be issued, as of the date hereof, a policy or policies of title insurance describing the land and the estate or interest therein hereinafter set forth, insuring against loss which may be sustained by reason of any defect, lien or encumbrance not shown or referred to as an exception herein or not excluded from coverage pursuant to the printed Schedules, Conditions and Stipulations or Conditions of said policy forms.*

*The printed Exceptions and Exclusions from the coverage and Limitations on Covered Risks of said policy or policies are set forth in Attachment One. The policy to be issued may contain an arbitration clause. When the Amount of Insurance is less than that set forth in the arbitration clause, all arbitrable matters shall be arbitrated at the option of either the Company or the Insured as the exclusive remedy of the parties. Limitations on Covered Risks applicable to the CLTA and ALTA Homeowner's Policies of Title Insurance which establish a Deductible Amount and a Maximum Dollar Limit of Liability for certain coverages are also set forth in Attachment One. Copies of the policy forms should be read. They are available from the office which issued this report.*

*This report (and any supplements or amendments hereto) is issued solely for the purpose of facilitating the issuance of a policy of title insurance and no liability is assumed hereby. If it is desired that liability be assumed prior to the issuance of a policy of title insurance, a Binder or Commitment should be requested.*

*The policy(s) of title insurance to be issued hereunder will be policy(s) of Fidelity National Title Insurance Company, a Florida Corporation.*

***Please read the exceptions shown or referred to herein and the exceptions and exclusions set forth in Attachment One of this report carefully. The exceptions and exclusions are meant to provide you with notice of matters which are not covered under the terms of the title insurance policy and should be carefully considered.***

***It is important to note that this preliminary report is not a written representation as to the condition of title and may not list all liens, defects and encumbrances affecting title to the land.***

Countersigned by:

Authorized Signature

FIDELITY NATIONAL TITLE GROUP
FNTG Western Region Energy Services
Chicago Title • Commonwealth • Fidelity National Title • Ticor Title

**Fidelity National Title Company**
4210 Riverwalk Parkway, Suite 200
Riverside, CA 92505
Phone: (951) 710-5912 • Fax:

# PRELIMINARY REPORT

**EFFECTIVE DATE:** **December 14, 2021 at 7:30 a.m.**

**ORDER NO.: 997-30078044-ML6**

The form of policy or policies of title insurance contemplated by this report is:

**ALTA Extended Owners Policy (6-17-06)**

1. THE ESTATE OR INTEREST IN THE LAND HEREINAFTER DESCRIBED OR REFERRED TO COVERED BY THIS REPORT IS:

   **A FEE**

2. TITLE TO SAID ESTATE OR INTEREST AT THE DATE HEREOF IS VESTED IN:

   **CORONA UNIFIED SCHOOL DISTRICT OF RIVERSIDE COUNTY**

3. THE LAND REFERRED TO IN THIS REPORT IS DESCRIBED AS FOLLOWS:

   **See Exhibit A attached hereto and made a part hereof.**

# EXHIBIT A

# LEGAL DESCRIPTION

THE LAND REFERRED TO HEREIN BELOW IS SITUATED IN THE CITY OF CORONA IN THE COUNTY OF RIVERSIDE, STATE OF CALIFORNIA, AND IS DESCRIBED AS FOLLOWS:

LOTS 5, 6, 7 AND 8 IN BLOCK 34 OF LANDS OF SOUTH RIVERSIDE LAND AND WATER COMPANY, IN THE CITY OF CORONA, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA, AS PER MAP RECORDED IN BOOK 9, PAGE 6 OF MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SBC, CALIFORNIA.

APN: 107-140-032

# EXCEPTIONS

**AT THE DATE HEREOF, ITEMS TO BE CONSIDERED AND EXCEPTIONS TO COVERAGE IN ADDITION TO THE PRINTED EXCEPTIONS AND EXCLUSIONS IN SAID POLICY FORM WOULD BE AS FOLLOWS:**

A. There were no taxes levied for the fiscal year 2021-2022 as the property was vested in a public entity.

Affects: APN: 107-140-032

B. The lien of supplemental or escaped assessments of property taxes, if any, made pursuant to the provisions of Chapter 3.5 (commencing with Section 75) or Part 2, Chapter 3, Articles 3 and 4, respectively, of the Revenue and Taxation Code of the State of California as a result of the transfer of title to the vestee named in Schedule A or as a result of changes in ownership or new construction occurring prior to Date of Policy.

1. Water rights, claims or title to water, whether or not disclosed by the public records.

2. A right of way reserved to the South Riverside Land and Water Company, and its assigns, for the construction and maintenance of all necessary water pipes and ditches, flumes and conduits for purposes of irrigation and domestic use, as reserved on the map of South Riverside Land and Water Company, recorded in Book 9, Pages 6 through 8, records of San Bernardino County.

3. Easement(s) for the purpose(s) shown below and rights incidental thereto, as granted in a document:

| | |
|---|---|
| Granted to: | Southern California Edison Company, a corporation, its successors and assigns |
| Purpose: | Public utilities |
| Recording Date: | April 16, 1982 |
| Recording No: | 65325, Official Records |
| Affects: | A portion of said land as more particularly described in said document. |

4. Easement(s) for the purpose(s) shown below and rights incidental thereto, as granted in a document:

| | |
|---|---|
| Granted to: | Southern California Edison Company |
| Purpose: | Public utilities |
| Recording Date: | February 18, 1988 |
| Recording No: | 42929, Official Records |
| Affects: | A portion of said land as more particularly described in said document. |

Limitations on the use, by the owners of said Land, of the easement area as set forth in the easement document shown hereinabove.

Reference is hereby made to said document for full particulars.

5. Easement(s) for the purpose(s) shown below and rights incidental thereto, as granted in a document:

| | |
|---|---|
| Granted to: | The City of Corona |
| Purpose: | Public street facilities |
| Recording Date: | August 31, 1989 |
| Recording No: | 298049, Official Records |
| Affects: | A portion of said land as more particularly described in said document. |

**EXCEPTIONS**
**(Continued)**

6. Easement(s) for the purpose(s) shown below and rights incidental thereto, as granted in a document:

| | |
|---|---|
| Granted to: | Los Angeles SMSA Limited Partnership |
| Purpose: | A mobile cellular transceiver site |
| Recording Date: | January 14, 1991 |
| Recording No: | 014971, Official Records |
| Affects: | A portion of said land as more particularly described in said document. |

Among other things, said document provides for:

Restrictions and Covenants.

7. Easement(s) for the purpose(s) shown below and rights incidental thereto, as granted in a document:

| | |
|---|---|
| Granted to: | City of Corona |
| Purpose: | Public street, traffic signal, public utility and emergency vehicular access |
| Recording Date: | March 8, 2001 |
| Recording No: | 01-95380, Official Records |
| Affects: | A portion of said land as more particularly described in said document. |

8. A lease with certain terms, covenants, conditions and provisions set forth therein.

| | |
|---|---|
| Dated: | November 1, 2005 |
| Lessor: | Corona-Norco Unified School District, a school district duly organized and validly existing under the laws of the State of California |
| Lessee: | Corona-Norco Unified School District Land Acquisition Corporation, a nonprofit public benefit corporation organized and existing under and by virtue of the laws of the State of California |
| Recording Date: | November 16, 2005 |
| Recording No: | 2005-0954198, Official Records |

The present ownership of the leasehold created by said lease and other matters affecting the interest of the lessee are not shown herein.

9. Matters contained in that certain document

| | |
|---|---|
| Entitled: | Lease Agreement |
| Dated: | November 1, 2005 |
| Executed by: | Corona-Norco Unified School District, a school district duly organized and validly existing under the laws of the State of California and Corona-Norco Unified School District Land Acquisition Corporation, a nonprofit public benefit corporation organized and existing under and by virtue of the laws of the State of California |
| Recording Date: | November 16, 2005 |
| Recording No: | 2005-0954199, Official Records |

Reference is hereby made to said document for full particulars.

**EXCEPTIONS**
**(Continued)**

10. Matters contained in that certain document

| | |
|---|---|
| Entitled: | Assignment Agreement |
| Dated: | November 1, 2005 |
| Executed by: | Corona-Norco Unified School District Land Acquisition Corporation, a nonprofit public benefit corporation organized and existing under and by virtue of the laws of the State of California and U.S. Bank National Association, a national banking association organized and existing under the laws of the United States of America |
| Recording Date: | November 16, 2005 |
| Recording No: | 2005-0954200, Official Records |

Reference is hereby made to said document for full particulars.

11. Discrepancies, conflicts in boundary lines, shortage in area, encroachments, or any other matters which a correct survey would disclose and which are not shown by the public records.

12. Any easements not disclosed by the public records as to matters affecting title to real property, whether or not said easements are visible and apparent.

13. Matters which may be disclosed by an inspection and/or by a correct ALTA/NSPS Land Title Survey of said Land that is satisfactory to the Company, and/or by inquiry of the parties in possession thereof.

14. Any rights of the parties in possession of a portion of, or all of, said Land, which rights are not disclosed by the public records.

The Company will require, for review, a full and complete copy of any unrecorded agreement, contract, license and/or lease, together with all supplements, assignments and amendments thereto, before issuing any policy of title insurance without excepting this item from coverage.

The Company reserves the right to except additional items and/or make additional requirements after reviewing said documents.

**PLEASE REFER TO THE "INFORMATIONAL NOTES" AND "REQUIREMENTS" SECTIONS WHICH FOLLOW FOR INFORMATION NECESSARY TO COMPLETE THIS TRANSACTION.**

**END OF EXCEPTIONS**

# REQUIREMENTS SECTION

1. The requirement that this Company be furnished with proper regulatory statues authorizing this transaction and appropriate documentation indicating who may execute on behalf of the Corona Unified School District of Riverside County.

2. Unrecorded matters which may be disclosed by an Owner's Affidavit or Declaration. A form of the Owner's Affidavit/Declaration is attached to this Preliminary Report/Commitment. This Affidavit/Declaration is to be completed by the record owner of the land and submitted for review prior to the closing of this transaction. Your prompt attention to this requirement will help avoid delays in the closing of this transaction. Thank you.

   The Company reserves the right to add additional items or make further requirements after review of the requested Affidavit/Declaration.

**END OF REQUIREMENTS**

# INFORMATIONAL NOTES SECTION

1. None of the items shown in this report will cause the Company to decline to attach CLTA Endorsement Form 100 to an Extended Coverage Loan Policy, when issued.

2. Note: The policy of title insurance will include an arbitration provision. The Company or the insured may demand arbitration. Arbitrable matters may include, but are not limited to, any controversy or claim between the Company and the insured arising out of or relating to this policy, any service of the Company in connection with its issuance or the breach of a policy provision or other obligation. Please ask your escrow or title officer for a sample copy of the policy to be issued if you wish to review the arbitration provisions and any other provisions pertaining to your Title Insurance coverage.

3. Notice: Please be aware that due to the conflict between federal and state laws concerning the cultivation, distribution, manufacture or sale of marijuana, the Company is not able to close or insure any transaction involving Land that is associated with these activities.

4. Pursuant to Government Code Section 27388.1, as amended and effective as of 1-1-2018, a Documentary Transfer Tax (DTT) Affidavit may be required to be completed and submitted with each document when DTT is being paid or when an exemption is being claimed from paying the tax. If a governmental agency is a party to the document, the form will not be required. DTT Affidavits may be available at a Tax Assessor-County Clerk-Recorder.

5. Due to the special requirements of SB 50 (California Public Resources Code Section 8560 et seq.), any transaction that includes the conveyance of title by an agency of the United States must be approved in advance by the Company's State Counsel, Regional Counsel, or one of their designees.

6. Note: There are NO conveyances affecting said Land recorded within 24 months of the date of this report.

**END OF INFORMATIONAL NOTES**

Mitch LaRiva/en

# Wire Fraud Alert

This Notice is not intended to provide legal or professional advice. If you have any questions, please consult with a lawyer.

All parties to a real estate transaction are targets for wire fraud and many have lost hundreds of thousands of dollars because they simply relied on the wire instructions received via email, without further verification. **If funds are to be wired in conjunction with this real estate transaction, we strongly recommend verbal verification of wire instructions through a known, trusted phone number prior to sending funds.**

In addition, the following non-exclusive self-protection strategies are recommended to minimize exposure to possible wire fraud.

- **NEVER RELY** on emails purporting to change wire instructions. Parties to a transaction rarely change wire instructions in the course of a transaction.
- **ALWAYS VERIFY** wire instructions, specifically the ABA routing number and account number, by calling the party who sent the instructions to you. DO NOT use the phone number provided in the email containing the instructions, use phone numbers you have called before or can otherwise verify. **Obtain the phone number of relevant parties to the transaction as soon as an escrow account is opened**. DO NOT send an email to verify as the email address may be incorrect or the email may be intercepted by the fraudster.
- **USE COMPLEX EMAIL PASSWORDS** that employ a combination of mixed case, numbers, and symbols. Make your passwords greater than eight (8) characters. Also, change your password often and do NOT reuse the same password for other online accounts.
- **USE MULTI-FACTOR AUTHENTICATION** for email accounts. Your email provider or IT staff may have specific instructions on how to implement this feature.

For more information on wire-fraud scams or to report an incident, please refer to the following links:

***Federal Bureau of Investigation:***
***http://www.fbi.gov***

***Internet Crime Complaint Center:***
***http://www.ic3.gov***


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FIDELITY NATIONAL TITLE GROUP
FNTG Western Region
Energy Services
Chicago Title • Commonwealth • Fidelity National Title • Ticor Title

**Fidelity National Title Company**
4210 Riverwalk Parkway, Suite 200
Riverside, CA 92505
Phone: (951) 710-5912 • Fax:

# Notice of Available Discounts

Pursuant to Section 2355.3 in Title 10 of the California Code of Regulations Fidelity National Financial, Inc. and its subsidiaries ("FNF") must deliver a notice of each discount available under our current rate filing along with the delivery of escrow instructions, a preliminary report or commitment. Please be aware that the provision of this notice does not constitute a waiver of the consumer's right to be charged the filed rate. As such, your transaction may not qualify for the below discounts.

You are encouraged to discuss the applicability of one or more of the below discounts with a Company representative. These discounts are generally described below; consult the rate manual for a full description of the terms, conditions and requirements for such discount. These discounts only apply to transactions involving services rendered by the FNF Family of Companies. This notice only applies to transactions involving property improved with a one-to-four family residential dwelling.

Not all discounts are offered by every FNF Company. The discount will only be applicable to the FNF Company as indicated by the named discount.

| **FNF Underwritten Title Company** | **Underwritten by FNF Underwriters** |
|---|---|
| CTC – Chicago Title company | CTIC – Chicago Title Insurance Company |
| CLTC – Commonwealth Land Title Company | CLTIC - Commonwealth Land Title Insurance Company |
| FNTC – Fidelity National Title Company of California | FNTIC – Fidelity National Title Insurance Company |
| FNTCCA - Fidelity National Title Company of California | FNTIC - Fidelity National Title Insurance Company |
| TICOR – Ticor Title Company of California | CTIC – Chicago Title Insurance Company |
| LTC – Lawyer's Title Company | CLTIC – Commonwealth Land Title Insurance Company |
| SLTC – ServiceLink Title Company | CTIC – Chicago Title Insurance Company |

## Available Discounts

**DISASTER LOANS (CTIC, CLTIC, FNTIC)**
The charge for a Lender's Policy (Standard or Extended coverage) covering the financing or refinancing by an owner of record, within twenty-four (24) months of the date of a declaration of a disaster area by the government of the United States or the State of California on any land located in said area, which was partially or totally destroyed in the disaster, will be fifty percent (50%) of the appropriate title insurance rate.

**CHURCHES OR CHARITABLE NON-PROFIT ORGANIZATIONS (CTIC, FNTIC)**
On properties used as a church or for charitable purposes within the scope of the normal activities of such entities, provided said charge is normally the church's obligation the charge for an owner's policy shall be fifty percent (50%) to seventy percent (70%) of the appropriate title insurance rate, depending on the type of coverage selected. The charge for a lender's policy shall be forty (40%) to fifty percent (50%) of the appropriate title insurance rate, depending on the type of coverage selected.

# FIDELITY NATIONAL FINANCIAL, INC.
# PRIVACY NOTICE

Effective August 1, 2021

Fidelity National Financial, Inc. and its majority-owned subsidiary companies (collectively, "FNF," "our," or "we") respect and are committed to protecting your privacy. This Privacy Notice explains how we collect, use, and protect personal information, when and to whom we disclose such information, and the choices you have about the use and disclosure of that information.

A limited number of FNF subsidiaries have their own privacy notices. If a subsidiary has its own privacy notice, the privacy notice will be available on the subsidiary's website and this Privacy Notice does not apply.

## Collection of Personal Information

FNF may collect the following categories of Personal Information:

- contact information (*e.g.*, name, address, phone number, email address);
- demographic information (*e.g.*, date of birth, gender, marital status);
- identity information (*e.g.* Social Security Number, driver's license, passport, or other government ID number);
- financial account information (*e.g.* loan or bank account information); and
- other personal information necessary to provide products or services to you.

We may collect Personal Information about you from:

- information we receive from you or your agent;
- information about your transactions with FNF, our affiliates, or others; and
- information we receive from consumer reporting agencies and/or governmental entities, either directly from these entities or through others.

## Collection of Browsing Information

FNF automatically collects the following types of Browsing Information when you access an FNF website, online service, or application (each an "FNF Website") from your Internet browser, computer, and/or device:

- Internet Protocol (IP) address and operating system;
- browser version, language, and type;
- domain name system requests; and
- browsing history on the FNF Website, such as date and time of your visit to the FNF Website and visits to the pages within the FNF Website.

Like most websites, our servers automatically log each visitor to the FNF Website and may collect the Browsing Information described above. We use Browsing Information for system administration, troubleshooting, fraud investigation, and to improve our websites. Browsing Information generally does not reveal anything personal about you, though if you have created a user account for an FNF Website and are logged into that account, the FNF Website may be able to link certain browsing activity to your user account.

## Other Online Specifics

Cookies. When you visit an FNF Website, a "cookie" may be sent to your computer. A cookie is a small piece of data that is sent to your Internet browser from a web server and stored on your computer's hard drive. Information gathered using cookies helps us improve your user experience. For example, a cookie can help the website load properly or can customize the display page based on your browser type and user preferences. You can choose whether or not to accept cookies by changing your Internet browser settings. Be aware that doing so may impair or limit some functionality of the FNF Website.

Web Beacons. We use web beacons to determine when and how many times a page has been viewed. This information is used to improve our websites.

Do Not Track. Currently our FNF Websites do not respond to "Do Not Track" features enabled through your browser.

Links to Other Sites. FNF Websites may contain links to unaffiliated third-party websites. FNF is not responsible for the privacy practices or content of those websites. We recommend that you read the privacy policy of every website you visit.

## Use of Personal Information

FNF uses Personal Information for three main purposes:

- To provide products and services to you or in connection with a transaction involving you.
- To improve our products and services.
- To communicate with you about our, our affiliates', and others' products and services, jointly or independently.

## When Information Is Disclosed

We may disclose your Personal Information and Browsing Information in the following circumstances:

- to enable us to detect or prevent criminal activity, fraud, material misrepresentation, or nondisclosure;
- to nonaffiliated service providers who provide or perform services or functions on our behalf and who agree to use the information only to provide such services or functions;


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- to nonaffiliated third party service providers with whom we perform joint marketing, pursuant to an agreement with them to jointly market financial products or services to you;
- to law enforcement or authorities in connection with an investigation, or in response to a subpoena or court order; or
- in the good-faith belief that such disclosure is necessary to comply with legal process or applicable laws, or to protect the rights, property, or safety of FNF, its customers, or the public.

The law does not require your prior authorization and does not allow you to restrict the disclosures described above. Additionally, we may disclose your information to third parties for whom you have given us authorization or consent to make such disclosure. We do not otherwise share your Personal Information or Browsing Information with nonaffiliated third parties, except as required or permitted by law. We may share your Personal Information with affiliates (other companies owned by FNF) to directly market to you. Please see "Choices with Your Information" to learn how to restrict that sharing.

We reserve the right to transfer your Personal Information, Browsing Information, and any other information, in connection with the sale or other disposition of all or part of the FNF business and/or assets, or in the event of bankruptcy, reorganization, insolvency, receivership, or an assignment for the benefit of creditors. By submitting Personal Information and/or Browsing Information to FNF, you expressly agree and consent to the use and/or transfer of the foregoing information in connection with any of the above described proceedings.

**Security of Your Information**
We maintain physical, electronic, and procedural safeguards to protect your Personal Information.

**Choices With Your Information**
If you do not want FNF to share your information among our affiliates to directly market to you, you may send an "opt out" request as directed at the end of this Privacy Notice. We do not share your Personal Information with nonaffiliates for their use to direct market to you without your consent.

Whether you submit Personal Information or Browsing Information to FNF is entirely up to you. If you decide not to submit Personal Information or Browsing Information, FNF may not be able to provide certain services or products to you.

For California Residents: We will not share your Personal Information or Browsing Information with nonaffiliated third parties, except as permitted by California law. For additional information about your California privacy rights, please visit the "California Privacy" link on our website (https://fnf.com/pages/californiaprivacy.aspx) or call (888) 413-1748.

For Nevada Residents: You may be placed on our internal Do Not Call List by calling (888) 714-2710 or by contacting us via the information set forth at the end of this Privacy Notice. Nevada law requires that we also provide you with the following contact information: Bureau of Consumer Protection, Office of the Nevada Attorney General, 555 E. Washington St., Suite 3900, Las Vegas, NV 89101; Phone number: (702) 486-3132; email: BCPINFO@ag.state.nv.us.
For Oregon Residents: We will not share your Personal Information or Browsing Information with nonaffiliated third parties for marketing purposes, except after you have been informed by us of such sharing and had an opportunity to indicate that you do not want a disclosure made for marketing purposes.

For Vermont Residents: We will not disclose information about your creditworthiness to our affiliates and will not disclose your personal information, financial information, credit report, or health information to nonaffiliated third parties to market to you, other than as permitted by Vermont law, unless you authorize us to make those disclosures.

**Information From Children**
The FNF Websites are not intended or designed to attract persons under the age of eighteen (18).We do not collect Personal Information from any person that we know to be under the age of thirteen (13) without permission from a parent or guardian.

**International Users**
FNF's headquarters is located within the United States. If you reside outside the United States and choose to provide Personal Information or Browsing Information to us, please note that we may transfer that information outside of your country of residence. By providing FNF with your Personal Information and/or Browsing Information, you consent to our collection, transfer, and use of such information in accordance with this Privacy Notice.

**FNF Website Services for Mortgage Loans**
Certain FNF companies provide services to mortgage loan servicers, including hosting websites that collect customer information on behalf of mortgage loan servicers (the "Service Websites"). The Service Websites may contain links to both this Privacy Notice and the mortgage loan servicer or lender's privacy notice. The sections of this Privacy Notice titled When Information is Disclosed, Choices with Your Information, and Accessing and Correcting Information do not apply to the Service Websites. The mortgage loan servicer or lender's privacy notice governs use, disclosure, and access to your Personal Information. FNF does not share Personal Information collected through the Service Websites, except as required or authorized by contract with the mortgage loan servicer or lender, or as required by law or in the good-faith belief that such disclosure is necessary: to comply with a legal process or applicable law, to enforce this Privacy Notice, or to protect the rights, property, or safety of FNF or the public.


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**Your Consent To This Privacy Notice; Notice Changes**

By submitting Personal Information and/or Browsing Information to FNF, you consent to the collection and use of the information in accordance with this Privacy Notice. We may change this Privacy Notice at any time. The Privacy Notice's effective date will show the last date changes were made. If you provide information to us following any change of the Privacy Notice, that signifies your assent to and acceptance of the changes to the Privacy Notice.

**Accessing and Correcting Information; Contact Us**

If you have questions, would like to correct your Personal Information, or want to opt-out of information sharing for affiliate marketing, visit FNF's Opt Out Page or contact us by phone at (888) 714-2710 or by mail to:

Fidelity National Financial, Inc.
601 Riverside Avenue,
Jacksonville, Florida 32204
Attn: Chief Privacy Officer


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# ATTACHMENT ONE (Revised 05-06-16)

## CALIFORNIA LAND TITLE ASSOCIATION
## STANDARD COVERAGE POLICY – 1990

### EXCLUSIONS FROM COVERAGE

The following matters are expressly excluded from the coverage of this policy and the Company will not pay loss or damage, costs, attorneys' fees or expenses which arise by reason of:

1. (a) Any law, ordinance or governmental regulation (including but not limited to building or zoning laws, ordinances, or regulations) restricting, regulating, prohibiting or relating (i) the occupancy, use, or enjoyment of the land; (ii) the character, dimensions or location of any improvement now or hereafter erected on the land; (iii) a separation in ownership or a change in the dimensions or area of the land or any parcel of which the land is or was a part; or (iv) environmental protection, or the effect of any violation of these laws, ordinances or governmental regulations, except to the extent that a notice of the enforcement thereof or a notice of a defect, lien, or encumbrance resulting from a violation or alleged violation affecting the land has been recorded in the public records at Date of Policy.
   (b) Any governmental police power not excluded by (a) above, except to the extent that a notice of the exercise thereof or notice of a defect, lien or encumbrance resulting from a violation or alleged violation affecting the land has been recorded in the public records at Date of Policy.
2. Rights of eminent domain unless notice of the exercise thereof has been recorded in the public records at Date of Policy, but not excluding from coverage any taking which has occurred prior to Date of Policy which would be binding on the rights of a purchaser for value without knowledge.
3. Defects, liens, encumbrances, adverse claims or other matters:
   (a) whether or not recorded in the public records at Date of Policy, but created, suffered, assumed or agreed to by the insured claimant;
   (b) not known to the Company, not recorded in the public records at Date of Policy, but known to the insured claimant and not disclosed in writing to the Company by the insured claimant prior to the date the insured claimant became an insured under this policy;
   (c) resulting in no loss or damage to the insured claimant;
   (d) attaching or created subsequent to Date of Policy; or
   (e) resulting in loss or damage which would not have been sustained if the insured claimant had paid value for the insured mortgage or for the estate or interest insured by this policy.
4. Unenforceability of the lien of the insured mortgage because of the inability or failure of the insured at Date of Policy, or the inability or failure of any subsequent owner of the indebtedness, to comply with the applicable doing business laws of the state in which the land is situated.
5. Invalidity or unenforceability of the lien of the insured mortgage, or claim thereof, which arises out of the transaction evidenced by the insured mortgage and is based upon usury or any consumer credit protection or truth in lending law.
6. Any claim, which arises out of the transaction vesting in the insured the estate of interest insured by this policy or the transaction creating the interest of the insured lender, by reason of the operation of federal bankruptcy, state insolvency or similar creditors' rights laws.

### EXCEPTIONS FROM COVERAGE - SCHEDULE B, PART I

This policy does not insure against loss or damage (and the Company will not pay costs, attorneys' fees or expenses) which arise by reason of:

1. Taxes or assessments which are not shown as existing liens by the records of any taxing authority that levies taxes or assessments on real property or by the public records.
   Proceedings by a public agency which may result in taxes or assessments, or notices of such proceedings, whether or not shown by the records of such agency or by the public records.
2. Any facts, rights, interests, or claims which are not shown by the public records but which could be ascertained by an inspection of the land or which may be asserted by persons in possession thereof.
3. Easements, liens or encumbrances, or claims thereof, not shown by the public records.
4. Discrepancies, conflicts in boundary lines, shortage in area, encroachments, or any other facts which a correct survey would disclose, and which are not shown by the public records.
5. (a) Unpatented mining claims; (b) reservations or exceptions in patents or in Acts authorizing the issuance thereof; (c) water rights, claims or title to water, whether or not the matters excepted under (a), (b) or (c) are shown by the public records.
6. Any lien or right to a lien for services, labor or material not shown by the public records.

## CLTA HOMEOWNER'S POLICY OF TITLE INSURANCE (12-02-13)
## ALTA HOMEOWNER'S POLICY OF TITLE INSURANCE

### EXCLUSIONS

In addition to the Exceptions in Schedule B, You are not insured against loss, costs, attorneys' fees, and expenses resulting from:

1. Governmental police power, and the existence or violation of those portions of any law or government regulation concerning:
   a. building;
   b. zoning;
   c. land use;
   d. improvements on the Land;
   e. land division; and
   f. environmental protection.
   This Exclusion does not limit the coverage described in Covered Risk 8.a., 14, 15, 16, 18, 19, 20, 23 or 27.
2. The failure of Your existing structures, or any part of them, to be constructed in accordance with applicable building codes. This Exclusion does not limit the coverage described in Covered Risk 14 or 15.
3. The right to take the Land by condemning it. This Exclusion does not limit the coverage described in Covered Risk 17.
4. Risks:
   a. that are created, allowed, or agreed to by You, whether or not they are recorded in the Public Records;
   b. that are Known to You at the Policy Date, but not to Us, unless they are recorded in the Public Records at the Policy Date;



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c. that result in no loss to You; or
d. that first occur after the Policy Date - this does not limit the coverage described in Covered Risk 7, 8.e., 25, 26, 27 or 28.

5. Failure to pay value for Your Title.
6. Lack of a right:
   a. to any land outside the area specifically described and referred to in paragraph 3 of Schedule A; and
   b. in streets, alleys, or waterways that touch the Land.

   This Exclusion does not limit the coverage described in Covered Risk 11 or 21.
7. The transfer of the Title to You is invalid as a preferential transfer or as a fraudulent transfer or conveyance under federal bankruptcy, state insolvency, or similar creditors' rights laws.
8. Contamination, explosion, fire, flooding, vibration, fracturing, earthquake, or subsidence.
9. Negligence by a person or an Entity exercising a right to extract or develop minerals, water, or any other substances.

## LIMITATIONS ON COVERED RISKS

Your insurance for the following Covered Risks is limited on the Owner's Coverage Statement as follows:

- For Covered Risk 16, 18, 19, and 21 Your Deductible Amount and Our Maximum Dollar Limit of Liability shown in Schedule A.

The deductible amounts and maximum dollar limits shown on Schedule A are as follows:

| | Your Deductible Amount | Our Maximum Dollar Limit of Liability |
|---|---|---|
| Covered Risk 16: | 1.00% of Policy Amount Shown in Schedule A or $2,500.00 (whichever is less) | $ 10,000.00 |
| Covered Risk 18: | 1.00% of Policy Amount Shown in Schedule A or $5,000.00 (whichever is less) | $ 25,000.00 |
| Covered Risk 19: | 1.00% of Policy Amount Shown in Schedule A or $5,000.00 (whichever is less) | $ 25,000.00 |
| Covered Risk 21: | 1.00% of Policy Amount Shown in Schedule A or $2,500.00 (whichever is less) | $ 5,000.00 |

## 2006 ALTA LOAN POLICY (06-17-06)

## EXCLUSIONS FROM COVERAGE

The following matters are expressly excluded from the coverage of this policy, and the Company will not pay loss or damage, costs, attorneys' fees, or expenses that arise by reason of:

1. (a) Any law, ordinance, permit, or governmental regulation (including those relating to building and zoning) restricting, regulating, prohibiting, or relating to
   (i) the occupancy, use, or enjoyment of the Land;
   (ii) the character, dimensions, or location of any improvement erected on the Land;
   (iii) the subdivision of land; or
   (iv) environmental protection;

   or the effect of any violation of these laws, ordinances, or governmental regulations. This Exclusion 1(a) does not modify or limit the coverage provided under Covered Risk 5.
   (b) Any governmental police power. This Exclusion 1(b) does not modify or limit the coverage provided under Covered Risk 6.
2. Rights of eminent domain. This Exclusion does not modify or limit the coverage provided under Covered Risk 7 or 8.
3. Defects, liens, encumbrances, adverse claims, or other matters
   (a) created, suffered, assumed, or agreed to by the Insured Claimant;
   (b) not Known to the Company, not recorded in the Public Records at Date of Policy, but Known to the Insured Claimant and not disclosed in writing to the Company by the Insured Claimant prior to the date the Insured Claimant became an Insured under this policy;
   (c) resulting in no loss or damage to the Insured Claimant;
   (d) attaching or created subsequent to Date of Policy (however, this does not modify or limit the coverage provided under Covered Risk 11, 13 or 14); or
   (e) resulting in loss or damage that would not have been sustained if the Insured Claimant had paid value for the Insured Mortgage.
4. Unenforceability of the lien of the Insured Mortgage because of the inability or failure of an Insured to comply with applicable doing-business laws of the state where the Land is situated.
5. Invalidity or unenforceability in whole or in part of the lien of the Insured Mortgage that arises out of the transaction evidenced by the Insured Mortgage and is based upon usury or any consumer credit protection or truth-in-lending law.
6. Any claim, by reason of the operation of federal bankruptcy, state insolvency, or similar creditors' rights laws, that the transaction creating the lien of the Insured Mortgage, is
   (a) a fraudulent conveyance or fraudulent transfer, or
   (b) a preferential transfer for any reason not stated in Covered Risk 13(b) of this policy.
7. Any lien on the Title for real estate taxes or assessments imposed by governmental authority and created or attaching between Date of Policy and the date of recording of the Insured Mortgage in the Public Records. This Exclusion does not modify or limit the coverage provided under Covered Risk 11(b).

The above policy form may be issued to afford either Standard Coverage or Extended Coverage. In addition to the above Exclusions from Coverage, the Exceptions from Coverage in a Standard Coverage policy will also include the following Exceptions from Coverage:

## EXCEPTIONS FROM COVERAGE

{Except as provided in Schedule B - Part II,{ t{or T}his policy does not insure against loss or damage, and the Company will not pay costs, attorneys' fees or expenses, that arise by reason of:



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**{PART I**

{The above policy form may be issued to afford either Standard Coverage or Extended Coverage. In addition to the above Exclusions from Coverage, the Exceptions from Coverage in a Standard Coverage policy will also include the following Exceptions from Coverage:

1. (a) Taxes or assessments that are not shown as existing liens by the records of any taxing authority that levies taxes or assessments on real property or by the Public Records; (b) proceedings by a public agency that may result in taxes or assessments, or notices of such proceedings, whether or not shown by the records of such agency or by the Public Records.
2. Any facts, rights, interests, or claims that are not shown by the Public Records but that could be ascertained by an inspection of the Land or that may be asserted by persons in possession of the Land.
3. Easements, liens or encumbrances, or claims thereof, not shown by the Public Records.
4. Any encroachment, encumbrance, violation, variation, or adverse circumstance affecting the Title that would be disclosed by an accurate and complete land survey of the Land and not shown by the Public Records.
5. (a) Unpatented mining claims; (b) reservations or exceptions in patents or in Acts authorizing the issuance thereof; (c) water rights, claims or title to water, whether or not the matters excepted under (a), (b), or (c) are shown by the Public Records.
6. Any lien or right to a lien for services, labor or material not shown by the Public Records.}

**PART II**

In addition to the matters set forth in Part I of this Schedule, the Title is subject to the following matters, and the Company insures against loss or damage sustained in the event that they are not subordinate to the lien of the Insured Mortgage:}

## 2006 ALTA OWNER'S POLICY (06-17-06)

## EXCLUSIONS FROM COVERAGE

The following matters are expressly excluded from the coverage of this policy, and the Company will not pay loss or damage, costs, attorneys' fees, or expenses that arise by reason of:

1. (a) Any law, ordinance, permit, or governmental regulation (including those relating to building and zoning) restricting, regulating, prohibiting, or relating to
   (i) the occupancy, use, or enjoyment of the Land;
   (ii) the character, dimensions, or location of any improvement erected on the Land;
   (iii) the subdivision of land; or
   (iv) environmental protection;
   or the effect of any violation of these laws, ordinances, or governmental regulations. This Exclusion 1(a) does not modify or limit the coverage provided under Covered Risk 5.
   (b) Any governmental police power. This Exclusion 1(b) does not modify or limit the coverage provided under Covered Risk 6.
2. Rights of eminent domain. This Exclusion does not modify or limit the coverage provided under Covered Risk 7 or 8.
3. Defects, liens, encumbrances, adverse claims, or other matters
   (a) created, suffered, assumed, or agreed to by the Insured Claimant;
   (b) not Known to the Company, not recorded in the Public Records at Date of Policy, but Known to the Insured Claimant and not disclosed in writing to the Company by the Insured Claimant prior to the date the Insured Claimant became an Insured under this policy;
   (c) resulting in no loss or damage to the Insured Claimant;
   (d) attaching or created subsequent to Date of Policy (however, this does not modify or limit the coverage provided under Covered Risk 9 and 10); or
   (e) resulting in loss or damage that would not have been sustained if the Insured Claimant had paid value for the Title.
4. Any claim, by reason of the operation of federal bankruptcy, state insolvency, or similar creditors' rights laws, that the transaction vesting the Title as shown in Schedule A, is
   (a) a fraudulent conveyance or fraudulent transfer; or
   (b) a preferential transfer for any reason not stated in Covered Risk 9 of this policy.
5. Any lien on the Title for real estate taxes or assessments imposed by governmental authority and created or attaching between Date of Policy and the date of recording of the deed or other instrument of transfer in the Public Records that vests Title as shown in Schedule A.

The above policy form may be issued to afford either Standard Coverage or Extended Coverage. In addition to the above Exclusions from Coverage, the Exceptions from Coverage in a Standard Coverage policy will also include the following Exceptions from Coverage:

## EXCEPTIONS FROM COVERAGE

This policy does not insure against loss or damage, and the Company will not pay costs, attorneys' fees or expenses, that arise by reason of:
{The above policy form may be issued to afford either Standard Coverage or Extended Coverage. In addition to the above Exclusions from Coverage, the Exceptions from Coverage in a Standard Coverage policy will also include the following Exceptions from Coverage:

1. (a) Taxes or assessments that are not shown as existing liens by the records of any taxing authority that levies taxes or assessments on real property or by the Public Records; (b) proceedings by a public agency that may result in taxes or assessments, or notices of such proceedings, whether or not shown by the records of such agency or by the Public Records.
2. Any facts, rights, interests, or claims that are not shown in the Public Records but that could be ascertained by an inspection of the Land or that may be asserted by persons in possession of the Land.
3. Easements, liens or encumbrances, or claims thereof, not shown by the Public Records.
4. Any encroachment, encumbrance, violation, variation, or adverse circumstance affecting the Title that would be disclosed by an accurate and complete land survey of the Land and that are not shown by the Public Records.
5. (a) Unpatented mining claims; (b) reservations or exceptions in patents or in Acts authorizing the issuance thereof; (c) water rights, claims or title to water, whether or not the matters excepted under (a), (b), or (c) are shown by the Public Records.
6. Any lien or right to a lien for services, labor or material not shown by the Public Records. }
7. {Variable exceptions such as taxes, easements, CC&R's, etc. shown here.}



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## ALTA EXPANDED COVERAGE RESIDENTIAL LOAN POLICY – ASSESSMENTS PRIORITY (04-02-15)

## EXCLUSIONS FROM COVERAGE

The following matters are expressly excluded from the coverage of this policy and the Company will not pay loss or damage, costs, attorneys' fees or expenses which arise by reason of:

1. (a) Any law, ordinance, permit, or governmental regulation (including those relating to building and zoning) restricting, regulating, prohibiting, or relating to
   (i) the occupancy, use, or enjoyment of the Land;
   (ii) the character, dimensions, or location of any improvement erected on the Land;
   (iii) the subdivision of land; or
   (iv) environmental protection;
   or the effect of any violation of these laws, ordinances, or governmental regulations. This Exclusion 1(a) does not modify or limit the coverage provided under Covered Risk 5, 6, 13(c), 13(d), 14 or 16.
   (b) Any governmental police power. This Exclusion 1(b) does not modify or limit the coverage provided under Covered Risk 5, 6, 13(c), 13(d), 14 or 16.
2. Rights of eminent domain. This Exclusion does not modify or limit the coverage provided under Covered Risk 7 or 8.
3. Defects, liens, encumbrances, adverse claims, or other matters
   (a) created, suffered, assumed, or agreed to by the Insured Claimant;
   (b) not Known to the Company, not recorded in the Public Records at Date of Policy, but Known to the Insured Claimant and not disclosed in writing to the Company by the Insured Claimant prior to the date the Insured Claimant became an Insured under this policy;
   (c) resulting in no loss or damage to the Insured Claimant;
   (d) attaching or created subsequent to Date of Policy (however, this does not modify or limit the coverage provided under Covered Risk 11, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27 or 28); or
   (e) resulting in loss or damage that would not have been sustained if the Insured Claimant had paid value for the Insured Mortgage.
4. Unenforceability of the lien of the Insured Mortgage because of the inability or failure of an Insured to comply with applicable doing-business laws of the state where the Land is situated.
5. Invalidity or unenforceability in whole or in part of the lien of the Insured Mortgage that arises out of the transaction evidenced by the Insured Mortgage and is based upon usury, or any consumer credit protection or truth-in-lending law. This Exclusion does not modify or limit the coverage provided in Covered Risk 26.
6. Any claim of invalidity, unenforceability or lack of priority of the lien of the Insured Mortgage as to Advances or modifications made after the Insured has Knowledge that the vestee shown in Schedule A is no longer the owner of the estate or interest covered by this policy. This Exclusion does not modify or limit the coverage provided in Covered Risk 11.
7. Any lien on the Title for real estate taxes or assessments imposed by governmental authority and created or attaching subsequent to Date of Policy. This Exclusion does not modify or limit the coverage provided in Covered Risk 11(b) or 25.
8. The failure of the residential structure, or any portion of it, to have been constructed before, on or after Date of Policy in accordance with applicable building codes. This Exclusion does not modify or limit the coverage provided in Covered Risk 5 or 6.
9. Any claim, by reason of the operation of federal bankruptcy, state insolvency, or similar creditors' rights laws, that the transaction creating the lien of the Insured Mortgage, is
   (a) a fraudulent conveyance or fraudulent transfer, or
   (b) a preferential transfer for any reason not stated in Covered Risk 27(b) of this policy.
10. Contamination, explosion, fire, flooding, vibration, fracturing, earthquake, or subsidence.
11. Negligence by a person or an Entity exercising a right to extract or develop minerals, water, or any other substances.



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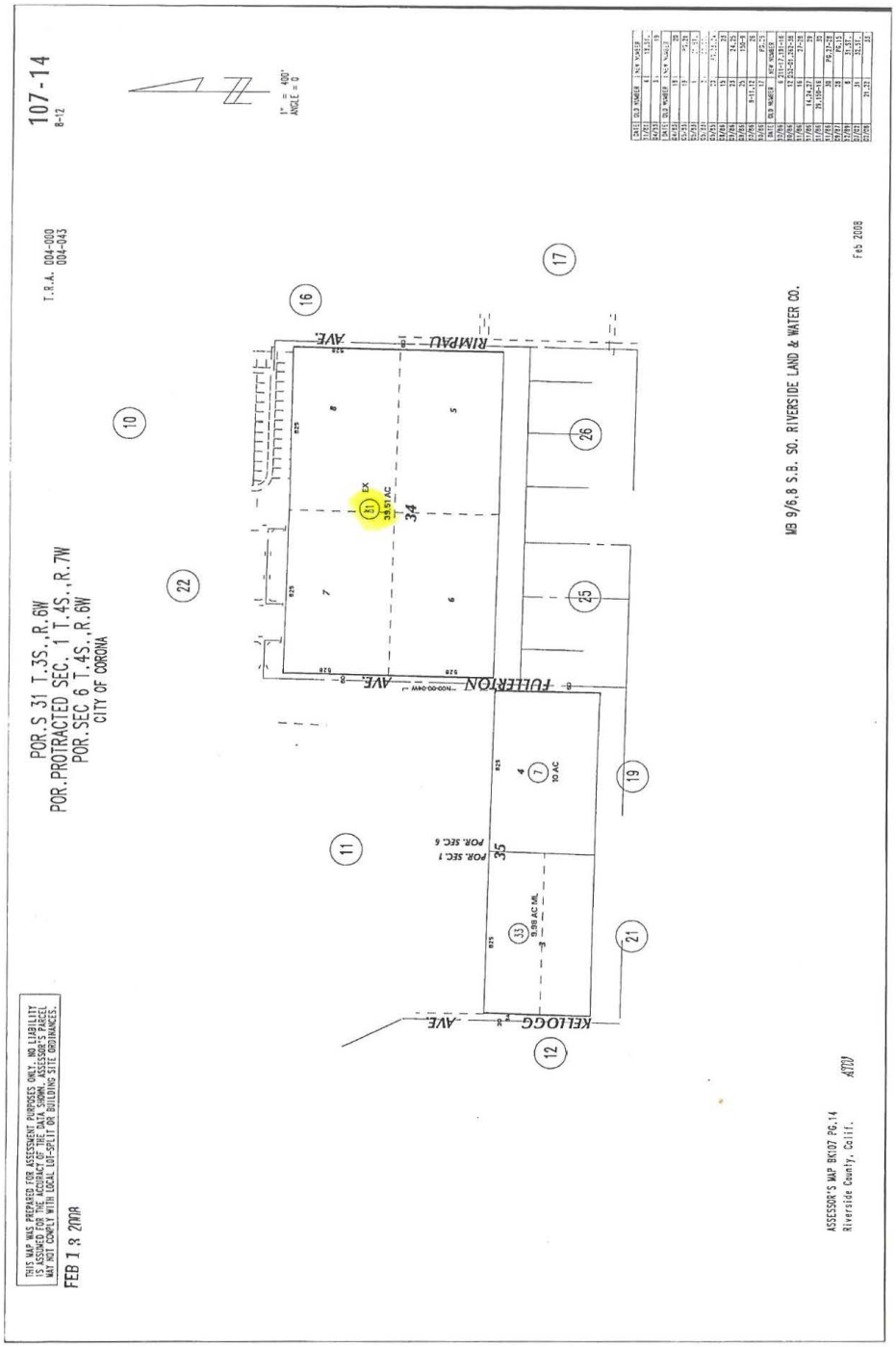


This map/plat is being furnished as an aid in locating the herein described Land in relation to adjoining streets, natural boundaries and other land, and is not a survey of the land depicted. Except to the extent a policy of title insurance is expressly modified by endorsement, if any, the Company does not insure dimensions, distances, location of easements, acreage or other matters shown thereon.

# OWNER'S DECLARATION

Escrow No.: 30078044-997-MAT-ML6
Property Address: 1820 Rimpau Avenue
Corona, CA 92881

The undersigned hereby declares as follows:

1. (Fill in the applicable paragraph and strike the other)

   a. Declarant ("Owner") is the owner or lessee, as the case may be, of certain premises located at 1820 Rimpau Avenue, Corona, CA 92881, further described as follows: See Preliminary Report/Commitment No. for full legal description (the "Land").

   b. Declarant is the _____ of _____ ("Owner"), which is the owner or lessee, as the case may be, of certain premises located at 1820 Rimpau Avenue, Corona, CA 92881, further described as follows: See Preliminary Report/Commitment No. for full legal description (the "Land").

2. (Fill in the applicable paragraph and strike the other)

   a. During the period of six months immediately preceding the date of this declaration no work has been done, no surveys or architectural or engineering plans have been prepared, and no materials have been furnished in connection with the erection, equipment, repair, protection or removal of any building or other structure on the Land or in connection with the improvement of the Land in any manner whatsoever.

   b. During the period of six months immediately preceding the date of this declaration certain work has been done and materials furnished in connection with _____ upon the Land in the approximate total sum of $_____, but no work whatever remains to be done and no materials remain to be furnished to complete the construction in full compliance with the plans and specifications, nor are there any unpaid bills incurred for labor and materials used in making such improvements or repairs upon the Land, or for the services of architects, surveyors or engineers, except as follows: _____. Owner, by the undersigned Declarant, agrees to and does hereby indemnify and hold harmless Fidelity National Title Company against any and all claims arising therefrom.

3. Owner has not previously conveyed the Land; is not a debtor in bankruptcy (and if a partnership, the general partner thereof is not a debtor in bankruptcy); and has not received notice of any pending court action affecting the title to the Land.

4. Except as shown in the above-referenced Preliminary Report/Commitment, there are no unpaid or unsatisfied mortgages, deeds of trust, Uniform Commercial Code financing statements, regular assessments, special assessments, periodic assessments or any assessment from any source, claims of lien, special assessments, or taxes that constitute a lien against the Land or that affect the Land but have not been recorded in the public records. There are no violations of the covenants, conditions and restrictions as shown in the above-referenced Preliminary Report/Commitment.

5. The Land is currently in use as _____; _____ occupy/occupies the Land; and the following are all of the leases or other occupancy rights affecting the Land:

   _____

6. There are no other persons or entities that assert an ownership interest in the Land, nor are there unrecorded easements, claims of easement, or boundary disputes that affect the Land.

7. There are no outstanding options to purchase or rights of first refusal affecting the Land.

8. Between the most recent Effective Date of the above-referenced Preliminary Report/Commitment and the date of recording of the Insured Instrument(s), Owner has not taken or allowed, and will not take or allow, any action or inaction to encumber or otherwise affect title to the Land.

This declaration is made with the intention that Fidelity National Title Company (the "Company") and its policy issuing agents will rely upon it in issuing their title insurance policies and endorsements. Owner, by the undersigned Declarant, agrees to indemnify the Company against loss or damage (including attorneys fees, expenses, and costs) incurred by the Company as a result of any untrue statement made herein.

I declare under penalty of perjury that the foregoing is true and correct and that this declaration was executed on _____ at _____.

Signature: _____

# APPENDIX H
# AGENCY CORRESPONDENCE

**Gabriela Jorquiera**

**From:** Laura Holder
**Sent:** Thursday, August 11, 2022 10:24 AM
**To:** Mia LeClerc
**Subject:** FW: Public Records Request: PRR 311-03468-Q9J4 CRM:0054635
**Attachments:** 2022-08-02 1820 Rimpau Ave FOG Record.pdf; PRR 311-03468-Q9J4, Centennial HS, 1820 Rimpau_8.2.22.pdf; 1820 Rimpau CERS_Redacted.pdf

**Follow Up Flag:** Follow up
**Flag Status:** Flagged

Here's the City records.

**Laura Holder**
Project Manager
**EEC** Environmental
One City Boulevard West | Suite 1800 | Orange, CA 92868
O (714) 667-2304 | F (714) 667-2310 | C (949) 274-0224
lholder@eecenvironmental.com | www.eecenvironmental.com

---

**From:** Tayler York <Tayler.York@CoronaCA.gov>
**Sent:** Tuesday, August 02, 2022 11:51 AM
**To:** Laura Holder <lholder@eecenvironmental.com>
**Cc:** City Clerk PRR <CityClerkPRR@CoronaCA.gov>
**Subject:** Public Records Request: PRR 311-03468-Q9J4 CRM:0054635

Dear Laura Holder,

The City of Corona, City Clerk's Office acknowledges your Public Records Act Request received on 7/29/2022 11:01 AM . The following information has been requested:

> ***I am performing a Phase I Environmental Site Assessment at Centennial High School at 1820 Rimpau Avenue and would like to obtain electronic copies of building permits, industrial wastewater discharge records - if any (such as for clarifiers, grease traps, onsite wastewater treatment, etc.), and Fire Department records pertaining to hazardous materials or petroleum products - if any, for this site. Please let me know if you need any additional information in order to process this request.***
>
> ***Thank you, Laura Holder***

Pursuant to California Records Act (Government Code Section 6250 et seq., (the "Act") the City has gathered the attached documents responsive to your request.

Per the Planning and Development Department, the Building Division does not have jurisdiction on permitting for public schools.

*Please note: some information has been redacted to protect the privacy of certain individuals involved. The determination to make this redaction was made by Tayler York, City Clerk Services Specialist.*

If you have any questions, please feel free to contact the City Clerk's Office at (951) 736-2201 or via email: CityClerk@CoronaCa.Gov.

Sincerely,

***Tayler York***

***City Clerk Services Specialist, Office of City Clerk, City of Corona***

400 S. Vicentia Ave., Corona, CA 92882

**951-736-2202** | **www.CoronaCA.gov**

# Centennial High School (CERSID: 10545853)

**Facility Information** **Submitted Mar 8, 2022**

Submitted on 3/8/2022 11:13:33 AM by *Art Baltierra* of Centennial High School (Corona, CA)

- Business Activities
- Business Owner/Operator Identification

**Hazardous Materials Inventory** **Accepted May 24, 2022**

Submitted on 3/8/2022 11:13:33 AM by *Art Baltierra* of Centennial High School (Corona, CA)
Submittal was ***Accepted*** on 5/24/2022 5:02:21 PM by John Brown

- Hazardous Material Inventory (9)
- Site Map (Official Use Only)
  - *Annotated Site Map (Official Use Only)* (Adobe PDF, 303KB)

**Emergency Response and Training Plans** **Accepted May 24, 2022**

Submitted on 3/8/2022 11:13:33 AM by *Art Baltierra* of Centennial High School (Corona, CA)
Submittal was ***Accepted*** on 5/24/2022 5:02:24 PM by John Brown

- Emergency Response/Contingency Plan
  - *Emergency Response/Contingency Plan* (Adobe PDF, 366KB)
- Employee Training Plan
  - *Employee Training Plan* (Adobe PDF, 395KB)

# California Environmental Reporting System (CERS) — Business Activities

## Site Identification

**Centennial High School**
1820 Rimpau Ave
Corona, CA 92879
County
Riverside

CERS ID
**10545853**
EPA ID Number
CAL000138361

## Submittal Status

Submitted on 3/8/2022 by *Art Baltierra* of Centennial High School (Corona, CA)

## Hazardous Materials

| | |
|---|---|
| Does your facility have on site (for any purpose) at any one time, hazardous materials at or above 55 gallons for liquids, 500 pounds for solids, or 200 cubic feet for compressed gases (include liquids in ASTs and USTs); or is regulated under more restrictive inventory local reporting requirements (shown below if present); or the applicable Federal threshold quantity for an extremely hazardous substance specified in 40 CFR Part 355, Appendix A or B; or handle radiological materials in quantities for which an emergency plan is required pursuant to 10 CFR Parts 30, 40 or 70? | Yes |

## Underground Storage Tank(s) (UST)

| | |
|---|---|
| Does your facility own or operate underground storage tanks? | No |

## Hazardous Waste

| | |
|---|---|
| Is your facility a Hazardous Waste Generator? | Yes |
| Does your facility treat hazardous waste on-site? | No |
| Is your facility's treatment subject to financial assurance requirements (for Permit by Rule and Conditional Authorization)? | No |
| Does your facility consolidate hazardous waste generated at a remote site? | No |
| Does your facility need to report the closure/removal of a tank that was classified as hazardous waste and cleaned on-site? | No |
| Does your facility generate in any single calendar month 1,000 kilograms (kg) (2,200 pounds) or more of federal RCRA hazardous waste, or generate in any single calendar month greater than 1 kg (2.2 pounds) of RCRA acute hazardous waste; or generate more than 100 kg (220 pounds) of spill cleanup materials contaminated with RCRA acute hazardous waste. | No |
| Is your facility a Household Hazardous Waste (HHW) Collection site? | No |

## Excluded and/or Exempted Materials

| | |
|---|---|
| Does your facility recycle more than 100 kg/month of excluded or exempted recyclable materials (per HSC 25143.2)? | No |
| Does your facility own or operate ASTs above these thresholds? Store greater than 1,320 gallons of petroleum products (new or used) in aboveground tanks or containers. | No |
| Does your facility have Regulated Substances stored onsite in quantities greater than the threshold quantities established by the California Accidental Release prevention Program (CalARP)? | No |

## Additional Information

No additional comments provided.

## Facility/Site

**Centennial High School**
1820 Rimpau Ave
Corona, CA 92879

CERS ID
**10545853**

## Submittal Status

Submitted on 3/8/2022 by *Art Baltierra* of Centennial High School (Corona, CA)

## Identification

Centennial High School

| Operator Phone | Business Phone | Business Fax |
|---|---|---|
| (951) 739-5670 | (951) 739-5670 | (951) 739-5693 |

| Beginning Date | Ending Date | |
|---|---|---|
| | | |
| **Dun & Bradstreet** | **SIC Code** | **Primary NAICS** |

## Facility/Site Mailing Address

1820 Rimpau Avenue
Corona, CA 92881

## Primary Emergency Contact

Andrew Sterner
Title
Administrative Director Support Services

| Business Phone | 24-Hour Phone | Pager Number |
|---|---|---|
| (951) 736-3316 | [redacted] | |

## Owner

Corona Norco Unified School District
(951) 736-5000
2820 Clark Ave.
Corona, CA 92860

## Secondary Emergency Contact

William Gunn
Title
Assistant Principal

| Business Phone | 24-Hour Phone | Pager Number |
|---|---|---|
| (951) 739-5670 | [redacted] | |

## Billing Contact

Corona Norco Unified School District
(951) 736-5000 ajbaltierra@cnusd.k12.ca.us
2820 Clark Ave.
Norco, CA 92860

## Environmental Contact

Andrew Sterner
(951) 736-3316 asterner@cnusd.k12.ca.us
300 Buena Vista Ave
Corona, CA 92882

| Name of Signer | Signer Title | Document Preparer |
|---|---|---|
| Art Baltierra | Support Services Supervisor | Art BAltierra |

Additional Information

## Locally-collected Fields

Some or all of the following fields may be required by your local regulator(s).

### Property Owner

Phone

Mailing Address

,

Assessor Parcel Number (APN)

Number of Employees

Facility ID
FA0021951

# Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **Centennial High School**
Facility Name **Centennial High School**
1820 Rimpau Ave , Corona 92879

Chemical Location **Ceramics Room 311**

CERS ID **10545853**
Facility ID **FA0021951**
Status **Submitted** on 3/8/2022 11:13 AM

| DOT Code/Fire Haz. Class | Common Name | Unit | Quantities: Max. Daily | Quantities: Largest Cont. | Quantities: Avg. Daily | Annual Waste Amount | Federal Hazard Categories | Hazardous Components (For mixture only): Component Name | % Wt | EHS | CAS No. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | **MOIST CLAY** | **Pounds** | **2000** | **50** | 1000 | | - Health | Kaolin | | | 1332-58-7 |
| | CAS No | State: Solid | Storage Container: Box | | Pressue: Ambient | Waste Code | Respiratory Skin Sensitization | Crystalline Silica | | | 14808-60-7 |
| | | Type: Mixture | Days on Site: 365 | | Temperature: Ambient | | - Health Serious Eye Damage Eye Irritation | | | | |

# Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **Centennial High School**
Facility Name **Centennial High School**
1820 Rimpau Ave , Corona 92879

Chemical Location **Generator**

CERS ID **10545853**
Facility ID **FA0021951**
Status **Submitted** on 3/8/2022 11:13 AM

| DOT Code/Fire Haz. Class | Common Name | Unit | Quantities: Max. Daily | Quantities: Largest Cont. | Quantities: Avg. Daily | Annual Waste Amount | Federal Hazard Categories | Hazardous Components (For mixture only): Component Name | % Wt | EHS | CAS No. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DOT: 3 - Flammable and Combustible Liquids<br><br>Combustible Liquid, Class II | **Diesel Fuel**<br>CAS No<br>68334-30-5 | **Gallons**<br>State<br>Liquid<br>Type<br>Pure | **80**<br>Storage Container<br>Aboveground Tank<br><br>Days on Site: 365 | **80** | 40<br>Pressue<br>Ambient<br>Temperature<br>Ambient | Waste Code | - Physical Flammable<br>- Health Carcinogenicity<br>- Health Skin Corrosion Irritation<br>- Health Respiratory Skin Sensitization<br>- Health Serious Eye Damage Eye Irritation<br>- Health Hazard Not Otherwise Classified | | | | |

# Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **Centennial High School**
Facility Name **Centennial High School**
1820 Rimpau Ave , Corona 92879

Chemical Location **Pool Storage**

CERS ID **10545853**
Facility ID **FA0021951**
Status **Submitted** on 3/8/2022 11:13 AM

| DOT Code/Fire Haz. Class | Common Name | Unit | Quantities: Max. Daily | Largest Cont. | Avg. Daily | Annual Waste Amount | Federal Hazard Categories | Hazardous Components (For mixture only): Component Name | % Wt | EHS | CAS No. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Oxidizing, Class 2, Corrosive | **Sodium Hypochlorite**<br>CAS No<br>7681-52-9 | **Gallons**<br>State<br>Liquid<br>Type<br>Mixture | **500**<br>Storage Container<br>Tank Inside Building, Plastic/Non-metalic Drum<br>Days on Site: 365 | **500** | 55<br>Pressue<br>Ambient<br>Temperature<br>Ambient | Waste Code | - Physical Oxidizer<br>- Health Skin Corrosion Irritation<br>- Health Respiratory Skin Sensitization<br>- Health Serious Eye Damage Eye Irritation | | | | |
| DOT: 8 - Corrosives (Liquids and Solids)<br>Corrosive | **Hydrochloric Acid 22M**<br>CAS No<br>7647-01-0 | **Gallons**<br>State<br>Liquid<br>Type<br>Mixture | **55**<br>Storage Container<br>Plastic/Non-metalic Drum<br>Days on Site: 365 | **55** | 30<br>Pressue<br>Ambient<br>Temperature<br>Ambient | Waste Code<br>791 | - Health Acute Toxicity<br>- Health Skin Corrosion Irritation<br>- Health Respiratory Skin Sensitization<br>- Health Serious Eye Damage Eye Irritation | Hydrogen Chloride<br>Water | 38 %<br>62 % | | 7647-01-0<br>7732-18-5 |
| DOT: 2.2 - Nonflammable Gases | **Carbon Dioxide**<br>CAS No<br>124-38-9 | **Cu. Feet**<br>State<br>Gas<br>Type<br>Pure | **3298**<br>Storage Container<br>Tank Inside Building<br>Days on Site: 365 | **3298** | 3298<br>Pressue<br>> Ambient<br>Temperature<br>Ambient | Waste Code | - Physical Gas Under Pressure<br>- Health Simple Asphyxiant | | | | |

# Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **Centennial High School**
Facility Name **Centennial High School**
1820 Rimpau Ave , Corona 92879

Chemical Location **Science Storage Room 832**

CERS ID **10545853**
Facility ID **FA0021951**
Status **Submitted** on 3/8/2022 11:13 AM

| DOT Code/Fire Haz. Class | Common Name | Unit | Quantities: Max. Daily | Largest Cont. | Avg. Daily | Annual Waste Amount | Federal Hazard Categories | Hazardous Components (For mixture only): Component Name | % Wt | EHS | CAS No. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DOT: 8 - Corrosives (Liquids and Solids)<br>Corrosive, Water Reactive, Class 2, Toxic, Oxidizing, Class 1 | **Sulfuric Acid 6M**<br>CAS No 7664-93-9 ✓EHS | **Pounds**<br>State: Liquid<br>Type: Mixture | **20**<br>Storage Container: Glass Bottle or Jug<br>Days on Site: 365 | **5** | 10<br>Pressue: Ambient<br>Temperature: Ambient | Waste Code | - Physical Corrosive To Metal<br>- Physical Contact Water Emits Flammable Gas<br>- Health Acute Toxicity<br>- Health Skin Corrosion Irritation<br>- Health Respiratory Skin Sensitization<br>- Health Serious Eye Damage Eye Irritation | Sulfuric Acid | 95 % | | 7664-93-9 |
| DOT: 8 - Corrosives (Liquids and Solids)<br>Corrosive, Oxidizing, Class 2, Toxic | **Nitric Acid 6M**<br>CAS No 7697-37-2 ✓EHS | **Pounds**<br>State: Liquid<br>Type: Mixture | **5**<br>Storage Container: Glass Bottle or Jug<br>Days on Site: 365 | **5** | 2<br>Pressue: Ambient<br>Temperature: Ambient | Waste Code 791 | - Health Acute Toxicity<br>- Health Skin Corrosion Irritation<br>- Health Respiratory Skin Sensitization<br>- Health Serious Eye Damage Eye Irritation | Nitric Acid<br>Water | 32 %<br>68 % | | 7697-37-2<br>7732-18-5 |
| DOT: 6.1 - Toxic Substances<br>Highly Toxic | **Colchicine**<br>CAS No 64-86-8 ✓EHS | **Pounds**<br>State: Solid<br>Type: Pure | **1**<br>Storage Container: Plastic Bottle or Jug<br>Days on Site: 365 | **1** | 1<br>Pressue: Ambient<br>Temperature: Ambient | Waste Code | - Health Acute Toxicity<br>- Health Skin Corrosion Irritation<br>- Health Respiratory Skin Sensitization<br>- Health Serious Eye Damage Eye Irritation<br>- Health Germ Cell Mutagenicity | | | | |

# Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **Centennial High School**
Facility Name **Centennial High School**
1820 Rimpau Ave , Corona 92879

Chemical Location **Student Store storage room**

CERS ID **10545853**
Facility ID **FA0021951**
Status **Submitted** on 3/8/2022 11:13 AM

| DOT Code/Fire Haz. Class | Common Name | Unit | Quantities: Max. Daily | Largest Cont. | Avg. Daily | Annual Waste Amount | Federal Hazard Categories | Hazardous Components (For mixture only): Component Name | % Wt | EHS | CAS No. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DOT: 2.2 - Nonflammable Gases | **Helium** | **Cu. Feet** | **900** | **300** | 900 | | - Physical Gas Under Pressure - Health Simple Asphyxiant | | | | |
| | CAS No: 7440-59-7 | State: Gas | Storage Container: Cylinder | | Pressue: Ambient | Waste Code | | | | | |
| | | Type: Pure | Days on Site: 365 | | Temperature: Ambient | | | | | | |

CALIFORNIA ENVIRONMENTAL REPORTING SYSTEM (CERS)

# CONSOLIDATED EMERGENCY RESPONSE / CONTINGENCY PLAN

*Prior to completing this Plan, please refer to the INSTRUCTIONS FOR COMPLETING A CONSOLIDATED CONTINGENCY PLAN*

## A. FACILITY IDENTIFICATION AND OPERATIONS OVERVIEW

| FACILITY ID # A1. | CERS ID # A2. | DATE OF PLAN PREPARATION/REVISION (MM/DD/YYYY) A3. |
|---|---|---|
| | 10545853 | 10/16/2019 |

BUSINESS NAME *(Same as Facility Name or DBA - Doing Business As)* A4.
Centennial High School

BUSINESS SITE ADDRESS A5.
1820 Rimpau Ave

| BUSINESS SITE CITY A6. | | ZIP CODE A7. |
|---|---|---|
| Corona | CA | 92881 |

| TYPE OF BUSINESS (e.g., Painting Contractor) A8. | INCIDENTAL OPERATIONS (e.g., Fleet Maintenance) A9. |
|---|---|
| School District | High School |

THIS PLAN COVERS CHEMICAL SPILLS, FIRES, AND EARTHQUAKES INVOLVING (Check all that apply): A10.

☒ 1. HAZARDOUS MATERIALS; ☐ 2. HAZARDOUS WASTES

## B. INTERNAL RESPONSE

INTERNAL FACILITY EMERGENCY RESPONSE WILL OCCUR BY (Check all that apply): B1.

☒ 1. CALLING PUBLIC EMERGENCY RESPONDERS (e.g., 9-1-1)
☒ 2. CALLING HAZARDOUS WASTE CONTRACTOR
☐ 3. ACTIVATING IN-HOUSE EMERGENCY RESPONSE TEAM

## C. EMERGENCY COMMUNICATIONS, PHONE NUMBERS AND NOTIFICATIONS

In the event of an emergency involving hazardous materials and/or hazardous waste, all facilities must IMMEDIATELY:
1. Notify facility personnel and evacuate if necessary in accordance with the Emergency Action Plan (Title 8 California Code of Regulations §3220);
2. Notify local emergency responders by calling 9-1-1;
3. Notify the local Unified Program Agency (UPA) at the phone number below; and
4. Notify the State Warning Center at (800) 852-7550.

Facilities that generate, treat, store or dispose of hazardous waste have additional responsibilities to notify and coordinate with other response agencies. Whenever there is an imminent or actual emergency situation such as an explosion, fire, or release, the Emergency Coordinator must follow the appropriate requirements for the category of facility and type of release involved:
1. Title 22 California Code of Regulations §66265.56. Emergency Procedures for generators of 1,000 kilograms or more of hazardous waste in any calendar month.
2. Title 22 California Code of Regulations §66265.196. Response to Leaks or Spills and Disposition of Leaking or Unfit-for-Use Tank Systems.
3. Title 40 Code of Federal Regulations §302.6. Notification requirements for a release of a hazardous substance equal to or greater than the reportable quantity.
4. Title 22 California Code of Regulations §66262.34(d)(2) and Title 40 Code of Federal Regulations §262.34(d)(5)(ii) for generators of less than 1000 kilograms of hazardous waste in any calendar month.

Following notification and before facility operations are resumed in areas of the facility affected by the incident, the Emergency Coordinator shall notify the local UPA and the local fire department's hazardous materials program, if necessary, that the facility is in compliance with requirements to:
1. Provide for proper storage and disposal of recovered waste, contaminated soil or surface water, or any other material that results from an explosion, fire, or release at the facility; and
2. Ensure that no material that is incompatible with the released material is transferred, stored, or disposed of in areas of the facility affected by the incident until cleanup procedures are completed.

| EMERGENCY RESPONSE PHONE NUMBERS: | | |
|---|---|---|
| | AMBULANCE, FIRE, POLICE AND CHP | 9-1-1 |
| | CALIFORNIA STATE WARNING CENTER (CSWC)/CAL OES | (800) 852-7550 |
| | NATIONAL RESPONSE CENTER (NRC) | (800) 424-8802 |
| | POISON CONTROL CENTER | (800) 222-1222 |
| | LOCAL UNIFIED PROGRAM AGENCY (UPA) | (951) 358-5055 C1. |
| | OTHER (Specify): Corona Fire Department C2. | (951) 736-2220 C3. |
| NEAREST MEDICAL FACILITY / HOSPITAL NAME: Corona Regional Medical Center C4. | | (951) 737-4343 C5. |

| AGENCY NOTIFICATION PHONE NUMBERS: | | |
|---|---|---|
| | CALIFORNIA DEPT. OF TOXIC SUBSTANCES CONTROL (DTSC) | (916) 255-3545 |
| | REGIONAL WATER QUALITY CONTROL BOARD (RWQCB) | (951) 782-4130 C6. |
| | U.S. ENVIRONMENTAL PROTECTION AGENCY (US EPA) | (800) 300-2193 |
| | CALIFORNIA DEPT. OF FISH AND WILDLIFE (CDFW) | (916) 358-2900 |
| | U.S. COAST GUARD (USCG) | (202) 267-2180 |
| | CAL OSHA | (916) 263-2800 |
| | CAL FIRE OFFICE OF THE STATE FIRE MARSHAL (OSFM) | (916) 323-7390 |
| | OTHER (Specify): C7. | C8. |
| | OTHER (Specify): C9. | C10. |

INTERNAL FACILITY EMERGENCY COMMUNICATIONS OR ALARM NOTIFICATION WILL OCCUR BY (Check all that apply): C11.

- ☑ 1. VERBAL WARNINGS;
- ☑ 2. PUBLIC ADDRESS OR INTERCOM SYSTEM;
- ☑ 3. TELEPHONE;
- ☐ 4. PAGERS;
- ☐ 5. ALARM SYSTEM;
- ☑ 6. PORTABLE RADIO

NOTIFICATIONS TO NEIGHBORING FACILITIES THAT MAY BE AFFECTED BY AN OFF-SITE RELEASE WILL OCCUR BY (Check all that apply): C12.

- ☑ 1. VERBAL WARNINGS;
- ☐ 2. PUBLIC ADDRESS OR INTERCOM SYSTEM;
- ☑ 3. TELEPHONE;
- ☐ 4. PAGERS;
- ☐ 5. ALARM SYSTEM;
- ☐ 6. PORTABLE RADIO

EMERGENCY COORDINATOR CONTACT INFORMATION: Andrew Stemer C13.

PRIMARY EMERGENCY COORDINATOR NAME: Andrew Stemer PHONE NO.: (951) 736-3316 PHONE NO.: (951) 741-0072

ALTERNATE EMERGENCY COORDINATOR NAME: Art Baltierra PHONE NO.: (951) 739-5600 PHONE NO.: (951) 310-1829

☐ Check if additional Emergency Coordinator contact and address information is available onsite or by calling PHONE NO.:

Note: If more than one alternate emergency coordinator is designated, attach a list in order of responsibility.

## D. EMERGENCY CONTAINMENT AND CLEANUP PROCEDURES

Check the applicable boxes to indicate your facility's procedures for containing spills and preventing and mitigating releases, fires and/or explosions.

D1.

- ☑ 1. MONITOR FOR LEAKS, RUPTURES, PRESSURE BUILD-UP, ETC.;
- ☑ 2. PROVIDE STRUCTURAL PHYSICAL BARRIERS (e.g., Portable spill containment walls, built-in berms);
- ☑ 3. PROVIDE ABSORBENT PHYSICAL BARRIERS (e.g., Pads, spill pigs, spill pillows);
- ☑ 4. COVER OR BLOCK FLOOR AND/OR STORM DRAINS;
- ☐ 5. LINED TRENCH DRAINS AND/OR SUMPS;
- ☐ 6. AUTOMATIC FIRE SUPPRESSION SYSTEM;
- ☑ 7. ELIMINATE SOURCES OF IGNITION FOR FLAMMABLE HAZARDS;
- ☑ 8. STOP PROCESSES AND/OR OPERATIONS;
- ☐ 9. AUTOMATIC / ELECTRONIC EQUIPMENT SHUT-OFF SYSTEM;
- ☑ 10. SHUT OFF WATER, GAS, ELECTRICAL UTILITIES;
- ☑ 11. CALL 9-1-1 FOR PUBLIC EMERGENCY RESPONDER ASSISTANCE AND/OR MEDICAL AID;
- ☑ 12. NOTIFY AND EVACUATE PERSONS IN ALL THREATENED AND/OR IMPACTED AREAS;
- ☑ 13. ACCOUNT FOR EVACUATED PERSONS IMMEDIATELY AFTER EVACUATION;
- ☐ 14. PROVIDE PROTECTIVE EQUIPMENT FOR ON-SITE EMERGENCY RESPONSE TEAM;
- ☑ 15. REMOVE CONTAINERS AND/OR ISOLATE AREAS;
- ☑ 16. HIRE LICENSED HAZARDOUS WASTE CONTRACTOR;
- ☑ 17. USE ABSORBENT MATERIAL FOR SPILL CONTAINMENT;
- ☐ 18. VACUUM SUCTION USING APPROPRIATE VACUUM (e.g., Intrinsically safe) FOR SPILL CONTROL AND/OR CLEANUP;
- ☐ 19. DECONTAMINATE PERSONNEL AND EQUIPMENT WITHIN DESIGNATED AREA AND DISPOSE OF WASTEWATER AS HAZARDOUS WASTE;
- ☑ 20. PROVIDE SAFE TEMPORARY STORAGE OF HAZARDOUS WASTE GENERATED DURING EMERGENCY ACTIONS;
- ☐ 21. OTHER (Specify): D2.

## E. FACILITY EVACUATION

THE FOLLOWING ALARM SIGNAL(S) WILL BE USED TO BEGIN EVACUATION OF THE FACILITY (Check all that apply): E1.

E2.

- ☐ 1. BELLS;
- ☑ 2. HORNS/SIRENS;
- ☐ 3. VERBAL (i.e., Shouting);
- ☐ 4. OTHER (Specify):

THE FOLLOWING LOCATION(S) WILL BE USED FOR AN EMERGENCY ASSEMBLY AREA(S) (e.g., Parking lot, street corner): E3.

All athletic fields are used for staging areas.

Note: The Emergency Coordinator must account for all onsite employees and visitors after evacuation.

EVACUATION ROUTE S AND ALTERNATE EVACUATION ROUTES ARE DESCRIBED AS FOLLOWS: E4.

- ☐ 1. WRITTEN PROCEDURES DESCRIBING ROUTES, EXITS, AND ASSEMBLY AREAS;
- ☑ 2. EVACUATION MAP(S) DEPICTING ROUTES, EXITS, AND ASSEMBLY AREAS;
- ☐ 3. OTHER (Specify): E5.

Note: Evacuation procedures and/or maps should be posted in visible facility locations and must be included in the Contingency Plan.

## F. ARRANGEMENTS FOR EMERGENCY SERVICES

ADVANCE ARRANGEMENTS FOR LOCAL EMERGENCY SERVICES (Check one of the following): F1.

- ☑ 1. HAVE BEEN DETERMINED NOT NECESSARY;
- ☐ 2. THE FOLLOWING ARRANGEMENTS HAVE BEEN MADE (Specify): F2.

Note: Advance arrangements with local fire and police departments, hospitals, state and local emergency response teams, and/or emergency services contractors should be made for your facility, if necessary. Large Quantity Generators must describe arrangements in the Contingency Plan.

## G. EMERGENCY EQUIPMENT

**Check the applicable boxes to list emergency response equipment available at the facility, identify the location(s) where the equipment is kept, and indicate the equipment's capability, if applicable.**

| TYPE | EQUIPMENT AVAILABLE G1. | LOCATION G2. | CAPABILITY G3. |
|---|---|---|---|
| *EXAMPLE* | ☒ *CHEMICAL PROTECTIVE GLOVES* | *SPILL RESPONSE KIT* | *SINGLE USE, OIL RESISTANT ONLY* |
| **Safety and First Aid** | 1. ☐ CHEMICAL PROTECTIVE SUITS, APRONS, AND/OR VESTS | | |
| | 2. ☒ CHEMICAL PROTECTIVE GLOVES | Pool equipment room | |
| | 3. ☐ CHEMICAL PROTECTIVE BOOTS | | |
| | 4. ☒ SAFETY GLASSES, GOGGLES, AND FACE SHIELDS | Pool equipment room and science | |
| | 5. ☐ HARD HATS | | |
| | 6. ☒ AIR-PURIFYING RESPIRATORS | | |
| | 7. ☐ SELF-CONTAINED BREATHING APPARATUS (SCBA) | | |
| | 8. ☒ FIRST AID KITS | Pool office | |
| | 9. ☒ PLUMBED EYEWASH FOUNTAIN AND/OR SHOWER | All science rooms | |
| | 10. ☒ PORTABLE EYEWASH KITS AND/OR STATION | Pool equipment room | |
| | 11. ☐ OTHER | | |
| **Fire Fighting** | 12. ☒ PORTABLE FIRE EXTINGUISHERS | One every 75 feet | |
| | 13. ☐ FIXED FIRE SUPPRESSION SYSTEMS AND/ OR SPRINKLERS | | |
| | 14. ☒ FIRE ALARM BOXES | | |
| | 15. ☐ OTHER | | |
| **Spill Control and Clean-Up** | 16. ☒ ALL-IN-ONE SPILL KIT | | |
| | 17. ☒ ABSORBENT MATERIAL | | |
| | 18. ☒ CONTAINER FOR USED ABSORBENT | | |
| | 19. ☒ BERM AND/OR DIKING EQUIPMENT | Pool equipment room | |
| | 20. ☒ BROOM | | |
| | 21. ☒ SHOVEL | | |
| | 22. ☐ VACUUM | | |
| | 23. ☐ EXHAUST HOOD | | |
| | 24. ☐ SUMP AND/OR HOLDING TANK | | |
| | 25. ☒ CHEMICAL NEUTRALIZERS | Science Storage rooms | |
| | 26. ☐ GAS CYLINDER LEAK REPAIR KIT | | |
| | 27. ☐ SPILL OVERPACK DRUMS | | |
| | 28. ☐ OTHER | | |
| **Communi-cations and Alarm Systems** | 29. ☒ TELEPHONES (e.g., Cellular) | Landlines located in pool office | |
| | 30. ☒ INTERCOM AND/OR PA SYSTEM | | |
| | 31. ☒ PORTABLE RADIOS | Pool attendant | |
| | 32. ☐ AUTOMATIC ALARM CHEMICAL MONITORING EQUIPMENT | | |
| **Other** | 33. ☐ OTHER | | |
| | 34. ☐ OTHER | | |

## H. EARTHQUAKE VULNERABILITY

Identify areas of the facility that are vulnerable to hazardous materials releases due to seismic motion. These areas require immediate isolation and inspection.

VULNERABLE AREAS (Check all that apply): H1.

- [x] 1. HAZARDOUS MATERIALS AND/OR WASTE STORAGE AREAS
- [ ] 2. PROCESS LINES AND PIPING
- [ ] 3. LABORATORY
- [ ] 4. WASTE TREATMENT AREA

LOCATIONS (e.g., Shop, outdoor shed, lab): H2.

Pool chemicals located side of pool building. Science chemicals located in science rooms.

Identify mechanical systems vulnerable to releases / spills due to earthquake-related motion. These systems require immediate isolation and inspection.

VULNERABLE SYSTEMS AND/OR EQUIPMENT (Check all that apply): H3.

- [ ] 1. SHELVES, CABINETS AND/OR RACKS
- [ ] 2. TANKS AND SHUT-OFF VALVES
- [x] 3. PORTABLE GAS CYLINDERS
- [x] 4. EMERGENCY SHUT-OFF AND/OR UTILITY VALVES
- [x] 5. SPRINKLER SYSTEMS
- [ ] 6. STATIONARY PRESSURIZED CONTAINERS (e.g., Propane tank)

LOCATIONS: H4.

Electrical shut off located adjacent to pool storage room.

## I. EMPLOYEE TRAINING

Employee training is required for all employees and/or contractors handling hazardous materials and/or hazardous wastes during normal and/or emergency operations. Most facilities will need to submit a separate Training Plan. However, your CUPA may accept this section as the Training Plan for some small facilities. Employee training plans may include the following content:

- Applicable laws and regulations;
- Emergency response plans and procedures;
- Safety Data Sheets;
- Hazard communication related to health and safety;
- Methods for safe handling of hazardous substances;
- Hazards of materials and processes (e.g., fire, explosion, asphyxiation);
- Hazard mitigation, prevention and abatement procedures;
- Coordination of emergency response actions;
- Notification procedures for local emergency responders, CUPA, Cal OES, and onsite personnel;
- Communication and alarm systems;
- Personal protective equipment;
- Use and maintenance of emergency response equipment and supplies (e.g. Fire extinguishers, respirators, spill control materials);
- Decontamination procedures;
- Evacuation procedures and evacuation staging locations;
- Identification of facility areas, equipment, and systems vulnerable to earthquakes and other natural disasters.
- OTHER (Specify):

Check the applicable boxes below to indicate how the employee training program is administered.

- [ ] 1. FORMAL CLASSROOM
- [ ] 2. VIDEOS
- [x] 3. SAFETY MEETINGS
- [ ] 4. STUDY GUIDES / MANUALS — I1.
- [ ] 5. OTHER (Specify): _____ I2.
- [ ] 6. NOT APPLICABLE SINCE FACILITY HAS NO EMPLOYEES
- [ ] 7. CHECK IF A SEPARATE EMPLOYEE TRAINING PLAN IS USED AND UPLOADED TO CERS AS A PDF DOCUMENT I3.
- [ ] 8. CHECK IF EMPLOYEE TRAINING IS COVERED BY THE ABOVE REFERENCED CONTENT AND OTHER DOCUMENTS ONSITE I4.

**EMPLOYEE TRAINING FREQUENCY AND RECORDKEEPING TRAINING MUST BE:**

- Provided initially for new employees as soon as possible following the date of hire. New employees should not work in an unsupervised position that involves hazardous materials handling and/or hazardous waste management without proper training;
- Provided within six months from the date of hire for new employees at a large quantity generator;
- Ongoing and provided at least annually;
- Amended prior to a change in process or work assignment;
- Given upon modification to the Emergency Response/Contingency Plan.

**Large Quantity Generator Training:** Large quantity generators (1,000 kg or more) must retain written plan and documentation of employee training which includes:

- A written description of the type and amount of both initial and ongoing training that will be given to persons filling each job position having responsibility for hazardous waste management and/or emergency response.
- The name, job title and job description for each position at the facility related to hazardous waste management.
- Current employee training records must be retained until closure of the facility and former employee training records must be retained for at least three years after termination of employment.

**Small Quantity Generator Training:** Small quantity generators (less than 1,000 kg) must include basic hazardous waste management and emergency response procedures but a written employee training plan and training records are not required. In order to show that the facility has met the small quantity generator employee training requirement, an employee training plan and training records may be made available.

**Hazardous Materials Business Plan Training**: Businesses must provide initial and annual employee training that includes the content referenced above. The training may be based on the job position and training records must be made available for a period of at least three years.

## J. LIST OF ATTACHMENTS

Check one of the following: J1.

- [x] 1. NO ATTACHMENTS ARE REQUIRED; or
- [ ] 2. THE FOLLOWING DOCUMENTS ARE ATTACHED: J2.

# Employee Training Plan

Businesses that handle hazardous materials are required to have a program that provides employees with initial and refresher training. The HMBEP shall include a training program, which is reasonable and appropriate for the size of the business and the nature of the hazardous materials handled. The training program shall take into consideration the responsibilities of the employees to be trained. The training program shall, at a minimum, include:

- **A.** Methods of safe handling of hazardous materials stored at your business, including familiarity with the characteristics and hazards of each material and measures employees can take to protect themselves from chemical hazards;
- **B.** Procedures for coordination with the local emergency responses organizations;
- **C.** Proper use of personal protective equipment;
- **D.** The prevention, abatement and mitigation procedures you have developed for your business and explained in the HMBEP, including proper use of emergency equipment and supplies;
- **E.** The emergency plans you have developed, the notification procedure used to alert people to evacuate, and the closet location to obtain appropriate emergency medical care;
- **F.** Procedures to coordinate with and assist the local emergency personnel that may respond to your business;
- **G.** Who and how to call for immediate assistance in the event of an accident involving hazardous materials;
- **H.** Procedures for ensuring that appropriate personnel receive initial and annual refresher training.

All employee training shall be documented and updated annually:

1. **Personnel**

   - **A.** Are there any specially trained hazardous materials emergency response personnel at your business? Yes _____ No __X____ Number Trained _____
   - **B.** Do you have decontamination capabilities for victims of exposure to hazardous material at your business? Yes ____ No _X____ Number Trained _____
   - **C.** Do you have personnel that will provide site security at your business during and after a hazardous materials incident? Yes ____ No _X___ Number Trained _____

2. **Equipment**

   - **A.** List the type and location of equipment that can or will be used for response to hazardous materials incidents at your business.

     After calling 911 to report the incident, the incident would also be reported to Support Services. Support Services would then call our HAZMAT Clean-up contractor, Sun Environmental Services at (310) 618-0440 or (310) 505-9969 and request support from their company.

City of Corona DWP
Fats, Oils and Grease Program
FOG Facility List

**Filter Criteria:**
Site ID DOES Contain ...-S... AND
Address DOES Contain ...1820...

| | | | | | |
|---|---|---|---|---|---|
| PermitNo: | **FOG-073-S** | **Not Active** | Permit Class: | FOG |
| Permittee: | Centennial High School #1 | | 2nd Class: | Interceptor |
| Site ID: | FOG-073-S | | In Business Since: | |
| Site Addr1: | 1820 Rimpau Ave. | | Seating Capacity: | |
| Site Addr2: | | | POTW Personnel: | RD |
| City: | Corona | | Pumper Name: | |
| State: | CA 92881-3228 | | Pumping Frequency: | |

| Contact Name | Phone |
|---|---|
| , | |

| | | | | | |
|---|---|---|---|---|---|
| PermitNo: | **FOG-074-S** | **Not Active** | Permit Class: | FOG |
| Permittee: | Centennial High School #2 | | 2nd Class: | Clarifier |
| Site ID: | FOG-074-S | | In Business Since: | |
| Site Addr1: | 1820 Rimpau Ave. | | Seating Capacity: | |
| Site Addr2: | | | POTW Personnel: | RD |
| City: | Corona | | Pumper Name: | |
| State: | CA 92881-3228 | | Pumping Frequency: | |

| Contact Name | Phone |
|---|---|
| , | |

City of Corona DWP
Fats, Oils and Grease Program
FOG Facility List

**Filter Criteria:**
Site ID DOES Contain ...-S... AND
Address DOES Contain ...1820...

| | | | | | |
|---|---|---|---|---|---|
| PermitNo: | **FOG-075-S** | **Not Active** | Permit Class: | FOG |
| Permittee: | Centennial High School #3 | | 2nd Class: | Interceptor |
| Site ID: | FOG-075-S | | In Business Since: | |
| Site Addr1: | 1820 Rimpau Ave. | | Seating Capacity: | |
| Site Addr2: | | | POTW Personnel: | RD |
| City: | Corona | | Pumper Name: | |
| State: | CA 92881-3228 | | Pumping Frequency: | |

| Contact Name | Phone |
|---|---|
| , | |

# Assessor - County Clerk - Recorder
Riverside County, CA

## Property Detail

| | |
|---|---|
| **Assessment No.** | 107140032 |
| **APN** | 107140032 |
| **Property Type** | Vacant Residential Land - Other |
| **Neighborhood** | Government Owned Property |
| **Acreage** | 39.51 |

## Legal Description

39.51 ACRES IN LOTS 5, 6, 7 & 8 MB 009/006 SB SOUTH RIVERSIDE LAND & WATER CO Lot 5 SubdivisionName SOUTH RIVERSIDE LAND & WATER CO Acres 039.51 LotType Lot RecMapType Map Book RecordedCOCode SB MapPlatB 009 MapPlatP 006 Lot 6 LotType Lot Lot 7 LotType Lot Lot 8 LotType Lot

## Value History (Part 1)

## Value History (Part 2)

## Transfer History

| Doc # | Sales Price | Date | Vacant Land |
|---|---|---|---|
| 1989-0298049-S | $0 | 8/31/1989 | True |
| 1989-0298049-S | $0 | 8/31/1989 | True |

## Features

## Land Details

| Primary Use | Land Type | Acres | Eff. Frontage | Eff. Depth |
|---|---|---|---|---|
| Unknown | LandLine 01 / 107140031 / Unknown | 0.00 | 0.00 | 0.00 |

Riverside County is not liable for erroneous or incomplete data.
California Revenue and Taxation Code Sec. 408.3 (d)

Date Printed: 7/29/2022

Department of Toxic Substances Control

Meredith Williams, Ph.D., Director
5796 Corporate Avenue
Cypress, California 90630

*Jared Blumenfeld*
Secretary for
Environmental Protection

*Gavin Newsom*
Governor

August 1, 2022

Laura Holder
EEC ENVIRONMENTAL
lholder@eecenvironmental.com

PR4-072922-07
CENTENNIAL HIGH SCHOOL 1820 RIMPAU AVE, CORONA, CA

Dear Requestor:

On 7/29/22 the Department of Toxic Substances Control (DTSC) received your email of 7/29/22 requesting records under the Public Records Act. After a thorough review of our files, no site records were found pertaining to the sites/facilities referenced above.

DTSC's Hazardous Waste Tracking System (HWTS) may have records that pertain to this request. This unit tracks toxic waste generator, transporters (manifests), and disposal facilities. If you are interested in this type of information, it can be identified by accessing the HWTS database at http://hwts.dtsc.ca.gov/report_search.cfm?id=5. If you are interested in retrieving detailed reports, additional charges may apply. Please contact the HWTS Unit by email at hwtsreports@dtsc.ca.gov or by phone at (916) 324-2444 for further information.

A large number of our records are available on EnviroStor, an online database that provides non-confidential, public access to DTSCs data management system. It tracks our cleanup, permitting, enforcement, and investigation efforts at hazardous waste facilities and sites with known or suspected contamination issues. EnviroStor is available 24/7, 365 days a year. The data reflects the latest updates as they are entered in the system. Access it from your computer or smartphone, the local library – anywhere Internet access is available.

Just go to www.envirostor.dtsc.ca.gov. You'll find a step-by-step tour of EnviroStor under the "How to Use EnviroStor" menu on the website.

If you have any questions or would like further information regarding your request, please contact me via email at.

Sincerely,

*Julie Chandler*

Julie Chandler
Regional Records Coordinator
Department of Toxic Substances Control

County of Riverside
DEPARTMENT OF ENVIRONMENTAL HEALTH

www.rivcoeh.org

# REQUEST FOR RECORDS

To help expedite your request, mark the program for which you are requesting records (Call 951-358-5172 if you are uncertain):

☒ Hazardous Materials / Underground Storage Tanks

☐ Land Use / Water Resources / Body Art / Medical Waste / Solid Waste

☐ Food facility / Public Pools and Water Features / Retail Tobacco

- Requests will be responded to within ten (10) business days per California Government Code, sections 6253 and 6256.
- Pursuant to California Government Code section 6254 (f), records of pending investigations and informants' names, addresses, and telephone numbers will not be released.
- **This form is for acquisition of any existing records. Any consultation in reference to these records may be subject to a consultation fee (pursuant to Riverside County Ordinance 640).**
- For access to electronic records available online, visit the public information section at www.rivcoeh.org for more details.

| | | |
|---|---|---|
| NAME OF REQUESTING PARTY: Laura Holder | DATE OF REQUEST: 7/29/22 | |
| BUSINESS NAME (IF ANY) OF REQUESTING PARTY: EEC Environmental | TELEPHONE NUMBER: ( 949 )274 0224 | |
| RETURN LEGAL MAILING ADDRESS: 1 City Blvd. West Suite 1800 | EMAIL ADDRESS: lholder@eecenvironmental.com | |
| CITY: Orange | STATE: CA | ZIP: 92868 |

The following information is required. **List each street address separately.**

| NAME OF FACILITY (IF APPLICABLE) | RECORDS REQUESTED (e.g., inspection reports, complaint reports, etc.): | PERIOD OF TIME TO BE RESEARCHED (If applicable) | |
|---|---|---|---|
| | | FROM: All | TO: All |
| Centennial HS | All | | |
| SITE STREET ADDRESS (1): 1820 Rimpau Avenue | | CITY: Corona | |
| SITE STREET ADDRESS (2): | | CITY: | |
| SITE STREET ADDRESS (3): | | CITY: | |
| SITE STREET ADDRESS (4): | | CITY: | |
| SITE STREET ADDRESS (5): | | CITY: | |
| SITE STREET ADDRESS (6): | | CITY: | |
| APN (**For Land Use and Water Resources ONLY**): | | | |

Email this completed form to:

Land Use/Water Resources: landuserecords@rivco.org  Hazardous Materials: DEHRecordsMgmt@rivco.org

All other programs: dehwebmaster@rivco.org

To mail this form, go to http://rivcoeh.org/Contactus for the address of the DEH office closest to the requested location(s).

Duplication costs for records researched and duplicated must be paid upon receipt of records.

| FOR OFFICE USE ONLY | | |
|---|---|---|
| COST OF REPRODUCTION: $_____ | EACH ADDITIONAL PAGE: $_____ | TOTAL: $_____ |
| REVIEWED BY | TITLE | |
| RECORDS RECEIVED BY | DATE | |

*** IF RECORD REQUEST IS MADE USING ALTERNATE METHOD AND NOT THIS FORM, ATTACH A COPY OF REQUEST TO THIS FORM.**

**For our office locations call us at (888) 722-4234 or visit our website at www.rivcoeh.org**

**Gabriela Jorquiera**

**From:** Laura Holder
**Sent:** Friday, August 19, 2022 6:53 AM
**To:** Gabriela Jorquiera
**Subject:** FW: Public Records Request

HI Gabi,

Here's a response for the CNUSD Phase I. Sorry if the font size is all weird I don't know how that happened.

Thanks!

**Laura Holder**
Project Manager
**EEC** Environmental
One City Boulevard West | Suite 1800 | Orange, CA 92868
O (714) 667-2304 | F (714) 667-2310 | C (949) 274-0224
lholder@eecenvironmental.com | www.eecenvironmental.com

---

**From:** Records, RRU@CALFIRE <RRURecords@fire.ca.gov>
**Sent:** Thursday, August 18, 2022 12:12 PM
**To:** Laura Holder <lholder@eecenvironmental.com>
**Subject:** FW: Public Records Request

Good afternoon,

Please see response to your records request below.

Regards,

Wanda Scandrick
OAII
88 E. Rider St.
Perris, CA 92571
Office Number: (951)943-4970
Fax Number: (951)657-5143

---

**From:** Reinertson, Kevin@CALFIRE <Kevin.Reinertson@fire.ca.gov>
**Sent:** Thursday, August 18, 2022 10:55 AM
**To:** Records, RRU@CALFIRE <RRURecords@fire.ca.gov>
**Subject:** RE: Public Records Request

Good morning,

The Office of the County Fire Marshal has no records for the site inquiry. The Site is located in the incorporated City of Corona. Please contact the City of Corona.

Thank you,

**Kevin Reinertson**
Deputy Fire Marshal/Office of the Fire Marshal
CAL FIRE/Riverside County Fire Department
Direct: 951-955-5273 | Main: 951-955-4777

---

**From:** Records, RRU@CALFIRE
**Sent:** Tuesday, August 2, 2022 9:30 AM

**To:** Reinertson, Kevin@CALFIRE <Kevin.Reinertson@fire.ca.gov>
**Subject:** FW: Public Records Request

Good morning Kevin,

Please see records request below.

Thanks,

Wanda Scandrick
OAII
88 E. Rider St.
Perris, CA 92571
Office Number: (951)943-4970
Fax Number: (951)657-5143

---

**From:** Laura Holder <lholder@eecenvironmental.com>
**Sent:** Friday, July 29, 2022 1:39 PM
**To:** Records, RRU@CALFIRE <RRURecords@fire.ca.gov>
**Subject:** Public Records Request

**Warning:** this message is from an external user and should be treated with caution.

Hi there,

I am conducting a Phase I Environmental Site Assessment at Centennial HS at 1820 Rimpau Avenue, Corona CA. I would like to see if there are

any Certified Unified Program Agency (CUPA) files, hazardous materials incidents, and/or jurisdictional pipelines within 1,500 feet of this site (site boundary shown on attached map).

Please let me know if you need any additional information in order to process this request.

Thank you,

**Laura Holder**
Project Manager
**EEC** Environmental
One City Boulevard West | Suite 1800 | Orange, CA 92868
O (714) 667-2304 | F (714) 667-2310 | C (949) 274-0224
lholder@eecenvironmental.com | www.eecenvironmental.com

## Gabriela Jorquiera

**From:** Laura Holder
**Sent:** Thursday, August 11, 2022 10:15 AM
**To:** Mia LeClerc
**Subject:** FW: Public records request

**Follow Up Flag:** Follow up
**Flag Status:** Flagged

**Laura Holder**
Project Manager
**EEC** Environmental
One City Boulevard West | Suite 1800 | Orange, CA 92868
O (714) 667-2304 | F (714) 667-2310 | C (949) 274-0224
lholder@eecenvironmental.com | www.eecenvironmental.com

---

**From:** WB-RB8-FileReview8 <FileReview8@waterboards.ca.gov>
**Sent:** Thursday, August 04, 2022 7:36 AM
**To:** Laura Holder <lholder@eecenvironmental.com>
**Subject:** RE: Public records request

You're welcome.

Thank you,
File Review Desk
3737 Main St. Suite 500
Riverside, CA 92501

---

**From:** Laura Holder <lholder@eecenvironmental.com>
**Sent:** Wednesday, August 3, 2022 3:27 PM
**To:** WB-RB8-FileReview8 <FileReview8@waterboards.ca.gov>
**Cc:** Gabriela Jorquiera <gjorquiera@eecenvironmental.com>
**Subject:** RE: Public records request

EXTERNAL:

Hi there,

Wonderful, thank you for the information, I appreciate it.

Sincerely,

**Laura Holder**
Project Manager

**EEC** Environmental
One City Boulevard West | Suite 1800 | Orange, CA 92868
O (714) 667-2304 | F (714) 667-2310 | C (949) 274-0224
lholder@eecenvironmental.com | www.eecenvironmental.com

**From:** WB-RB8-FileReview8 <FileReview8@waterboards.ca.gov>
**Sent:** Wednesday, August 03, 2022 10:52 AM
**To:** Laura Holder <lholder@eecenvironmental.com>
**Subject:** RE: Public records request

Good morning,

After careful review of our records, we show we have Storm Water information for the following site:
**1820 Rimpau Avenue in Corona, California 92881**

The requested record can be accessed online by:
• Clicking this link
https://smarts.waterboards.ca.gov/smarts/PublicDataAccess/PublicNoiSearch.xhtml
• Enter street number into" Facility/Site Street:" Field
• Enter the site city (e.g. "Irvine") into "Facility/ Site City:" Field
• Click on black underlined links to view attachments

If we can be of further assistance, please do not hesitate to contact us again.

Thank you,
File Review Desk
3737 Main St. Suite 500
Riverside, CA 92501

**From:** Laura Holder <lholder@eecenvironmental.com>
**Sent:** Friday, July 29, 2022 10:52 AM
**To:** WB-RB8-FileReview8 <FileReview8@waterboards.ca.gov>
**Subject:** Public records request

EXTERNAL:

Hi there,

I am performing a Phase I Environmental Site Assessment at Centennial High School at 1820 Rimpau Avenue in Corona, California 92881. I would like to see if the Water Board has any files for this address.

Thank you,

**Laura Holder**
Project Manager
**EEC** Environmental
One City Boulevard West | Suite 1800 | Orange, CA 92868
O (714) 667-2304 | F (714) 667-2310 | C (949) 274-0224
lholder@eecenvironmental.com | www.eecenvironmental.com

EEC ENVIRONMENTAL

**Corporate Office**
Tel: (714) 667-2300
Fax: (714) 667-2310
One City Boulevard West, Suite 1800
Orange, California 92868
www.eecenvironmental.com

July 29, 2022

The Southern California Gas Company
Centralized Correspondence
PO Box 1626
Monterey Park, California 91754

*Subject:* Information Regarding Gas Company Facilities near Centennial High School

To Whom It May Concern:

EEC Environmental (EEC) is completing a Phase I Environmental Site Assessment for Centennial High School located at 1820 Rimpau Avenue in Corona, California 92881. EEC would like to request information regarding High Pressure and Medium Pressure Gas Company facilities within 1,500 feet of Centennial High School (see enclosed map). Additionally, does The Gas Company have any easements on or adjacent to Centennial High School?

If any of the abovementioned facilities or easements are identified, please provide a map showing the locations.

If you have any questions, please contact me at (714) 667-2304 or lholder@eecenvironmental.com.

Sincerely,

**EEC Environmental**

Laura Holder

Laura Holder
Project Manager

Enclosure: Site Map


Untitled Map
Write a description for your map.
Legend
1820 Rimpau Ave
Parcel 12 and 13
Site
1820 Rimpau Ave
Magnolia Ave
Rimpau Ave
California Ave
Fullerton Ave
Ridgewood Dr
Kellogg Ave
Ontario Ave
Old Temescal Rd
Turnberry Ln
Rimpau Ave
California Ave
Compton Ave
I-15 Express Lanes
Bel Air St
15
N
2000 ft
Google Earth

EEC ENVIRONMENTAL

Corporate Office
Tel: (714) 667-2300
Fax: (714) 667-2310
One City Boulevard West, Suite 1800
Orange, California 92868
www.eecenvironmental.com

| | | | |
|---|---|---|---|
| To: | Public Records Coordinator | From: | Laura Holder |
| Company: | Office of the State Fire Marshal | Date: | August 11, 2022 |
| Fax: | (562) 497-9104 | Pages: | 1 |

I am conducting a Phase I Environmental Site Assessment at Centennial High School, located at **1820 Rimpau Avenue in Corona, CA 92881**. Please indicate if there are any pipelines located within 1,500 feet of this site (Site boundary shown on attached map).

If you have any questions, please contact me by phone (949)274-0224 or email at lholder@eecenvironmental.com.

Thank you,
Laura Holder

We offer a full range of environmental services, engineering services, construction services and management services to Industry and Government. These services include:

**Environmental Services**
- Regulatory Compliance
- Phase I Assessments
- Phase II Investigations
- Soil & Groundwater Investigation
- Well Installation
- Remedial Action
- Air Monitoring & Sampling
- Hazardous Waste Safety Training

**Management Services**
- Negotiations, Permit Assistance
- Construction Management
- Operation and Management Services
- Experienced Secretarial Support
- Computer-aided Drafting/Design
- Mediated Policy Dialogues

**Construction Services**
- Removal & Installation of Under/Above Ground Storage Tanks
- Wastewater/Stormwater Treatment Systems
- Soil & Groundwater Remediation Systems

**Engineering Services**
- Wastewater Treatment and Water Reuse Design
- Soil and Groundwater Remediation Design
- Containment Berms, Sumps and Separators

**EEC Mechanical**
- Mechanical/Piping
- Electrical
- Chemical Delivery System
- Water System

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**The information contained in this facsimile message is privileged and confidential information intended only for the use of the Individual or entity named above. If the reader of this message is not the intended recipient, you are hereby notified that any dissemination, distribution or copy of this communication is strictly prohibited. If you have received this communication in error, please immediately notify us by telephone and return the original message to us at the above address via the U.S. Postal Service. Thank you.**


Untitled Map
Write a description for your map.
Legend
1820 Rimpau Ave
Parcel 12 and 13
Site
1820 Rimpau Ave
Magnolia Ave
Rimpau Ave
California Ave
Fullerton Ave
Ridgewood Dr
Kellogg Ave
Ontario Ave
Old Temescal Rd
Turnberry Ln
Rimpau Ave
California Ave
Compton Ave
I-15 Express Lanes
Bel Air St
15
N
2000 ft
Google Earth

City of Corona
General Inspection/Incident Report Form

ID# 933

Incident Date: 2/18/20
Time: 11:10 AM

**NOTIFICATION/REQUEST**

Category: ☐ Notification ☐ Complaint ☒ Response Request ☐ Reconnaissance
From: Gene Silvas (name) Construction Superintendent (title/position) phone: (951) 279-3629
☐ Federal/State ☒ Local ☐ Private ☐ Public
Company/Agency: City of Corona, DWP-Maintenance Services Division: Maintenance Services
Contact address: 755 Public Safety Wy city: Corona state: CA zip: 92880

**LOCATION**

Affected address: 1820 Rimpau Ave city: Corona state: CA zip: 92879
Extent of Impact: School's parking lot (street, storm drain, flood channel, etc.) \ (channel/facility name) map page/grid ____

**COMPLAINT**

Complaint/Incident: Sewer spill incident at Centennial High School

Notification/Request received by: Cordell Chavez date: 2/18/20

**RESPONSIBLE PARTY (RP)**

RP: Corona Norco United School District (company/entity name) phone: (951) 736-3316
Contact: Support Services Supervisor, Field Operations (title/position) Ernie Marez (name) phone: (951) 205-0138
Address: 2820 Clark Ave City: Norco State: CA zip: 92860

**INVESTIGATION RESULTS**

Investigated by: Cordell Chavez date: 2/18/20 time: 11:50 am
Material/Waste involved: Sewage Est. vol/quant.: Unknown
Weather: Sunny Left Educational Pamphlets: ☒ Yes ☐ No Photos Taken: ☐ Yes ☐ No
Investigation results: Upon arrival, I met w/ Mr. Marez & observed the plumber unclogging the sewer line via the cleanout adjacent to the football field. City DWP staff visited & confirmed the sewer concern was not from City's infrastructure. The storm drain catch basin for the school is located downstream closer to Rimpau and was not impacted - DWP staff placed sandbags to protect catch basin. I didn't see sewage overflow upon arrival
Samples taken: ☐ yes ☒ no Taken by: ____ Sent to: ____ date: / / ____
Hours spent on investigation: 1 (response) \ 1 (documentation) \ ____ (follow-up) Job Code: ____
Complainant/Requestor contacted ☐ in person ☒ by telephone date: 2/18/20

**ACTION**

☐ Hazardous Materials Incident –HMI Report: ____
☐ Enforcement: ☐ Verbal Warning ☐ Notice of Violation ☐ Enforcement Letter ☐ Administrative Action ☐ Cease & Desist Order ☐ Legal Action date: / /
☐ Correction Required: ____

☒ No Action - Reason: ☒ Addressed by RP ☐ City Abatement ☐ Traffic Collision ☐ Inter-Agency Abatement
Mitigation Taken:
Schools are regulated by the State of California and given that the sewer concern was contained to the school's property, their Maintenance Staff took the lead to mitigate the issue. I reiterated the importance to ensure that plumbing fixtures are properly maintained given that sewer spills can potentially enter the storm drain which discharges to the City's MS4.

## Cordell Chavez

**From:** Cordell Chavez
**Sent:** Wednesday, February 19, 2020 8:01 AM
**To:** Katie Hockett
**Cc:** Kristian Alfelor; Jeff Potts; Melissa Estrada-Maravilla
**Subject:** 2/18/20 Shift Report - Cordell Chavez

| SHIFT REPORT – Cordell Chavez | VEHICLE NUMBER: 42101 |
|---|---|
| DATE: 2/18/20 | VEHICLE INSPECTION COMPLETE? YES ☒ NO ☐ |

**WORK ORDERS:** Choose an item.

**Abnormal Process Information:** Choose an item.

| | Work Performed |
|---|---|
| 7:30: | Discussion with Jeff, reviewed/responded to email/phone messages accordingly, and misc. admin. |
| 9:00: | Worked on updates for insp. activities. |
| 11:10: | Call from Gene reg. sewer spill at Centennial High School, 1820 Rimpau. Gene informed he was headed to the site to assess. In the meantime, I contacted CNUSD Maintenance Services Manager, Mr. Ernie Marez, to provide him the update. Mr. Marez informed a plumber was dispatched to the site. Mr. Marez also informed he was on his way to the school. Communication continued with Gene – he informed the sewer problem was not caused by the City's infrastructure...it was on the school's property adjacent to the football field and that the school's Maintenance was addressing via the cleanout in the area. The storm drain catch basin for the school is located downstream closer to Rimpau and was not impacted; nonetheless, DWP staff placed sandbags to protect the catch basin. |
| 11:20: | Prepared for field activity – inspection sheets and other misc. documents. |
| 11:50: | 1820 Rimpau Av., Centennial High School, site visit to assess sewer spill concern. Upon arrival, I met with Mr. Marez and the plumber...the school was addressing the sewer situation. Schools are regulated by the State of California and their Maintenance Staff were addressing the spill; nonetheless, I reiterated the importance to ensure that plumbing fixtures are properly maintained given that sewer spills can potentially enter the storm drain which discharges to the City's MS4. The school is the lead agency to address this sewer concern given it occurred on school grounds and contained onsite. |
| 12:30: | 2553 Sampson Av., Thro Ltd. – site visit for Commercial-Industrial Facility inspection. |
| 1:20: | 110 N Washburn Cir., Circle City Fleet & Auto – site visit for Commercial-Industrial Facility inspection. |

# APPENDIX I
# EDR DATABASE SEARCH REPORT

**Centennial High School**
1820 Rimpau Avenue
Corona, CA  92881

Inquiry Number: 7070636.2s
July 29, 2022

# The EDR Radius Map™ Report with GeoCheck®

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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| Map Findings Summary | 4 |
| Map Findings | 9 |
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| Government Records Searched/Data Currency Tracking | GR-1 |

**GEOCHECK ADDENDUM**

| | |
|---|---|
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| Physical Setting Source Summary | A-2 |
| Physical Setting SSURGO Soil Map | A-5 |
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***Thank you for your business.***
Please contact EDR at 1-800-352-0050
with any questions or comments.


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# EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E1527-21), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

**TARGET PROPERTY INFORMATION**

**ADDRESS**

1820 RIMPAU AVENUE
CORONA, CA 92881

**COORDINATES**

| | |
|---|---|
| Latitude (North): | 33.8583700 - 33ˆ 51' 30.13'' |
| Longitude (West): | 117.5474980 - 117ˆ 32' 50.99'' |
| Universal Tranverse Mercator: | Zone 11 |
| UTM X (Meters): | 449354.6 |
| UTM Y (Meters): | 3746393.2 |
| Elevation: | 795 ft. above sea level |

**USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY**

| | |
|---|---|
| Target Property Map: | 12015885 CORONA SOUTH, CA |
| Version Date: | 2018 |
| North Map: | 12014834 CORONA NORTH, CA |
| Version Date: | 2018 |

**AERIAL PHOTOGRAPHY IN THIS REPORT**

| | |
|---|---|
| Portions of Photo from: | 20140603 |
| Source: | USDA |

# MAPPED SITES SUMMARY

Target Property Address:
1820 RIMPAU AVENUE
CORONA, CA 92881

Click on Map ID to see full detail.

| MAP ID | SITE NAME | ADDRESS | DATABASE ACRONYMS | RELATIVE ELEVATION | DIST (ft. & mi.) DIRECTION |
|---|---|---|---|---|---|
| A1 | CENTENNIAL HIGH SCHO | 1820 RIMPAU AVE | CIWQS | | TP |
| A2 | CENTENNIAL HIGH SCHO | 1820 RIMPAU AVE | CERS HAZ WASTE, CHMIRS, CERS | | TP |
| A3 | CENTENNIAL HIGH SCHO | 1820 RIMPAU AVE | HAZNET, HWTS | | TP |
| A4 | VERIZON WIRELESS: CE | 1820 RIMPAU AVENUE | FINDS | | TP |
| A5 | CENTENNIAL HIGH SCHO | 1820 RIMPAU AVE | RCRA NonGen / NLR | | TP |
| A6 | CENTENNIAL HIGH SCHO | 1820 RIMPAU AVE | FINDS | | TP |
| A7 | CENTENNIAL HIGH SCHO | 1820 RIMPAU AVE | FINDS, ECHO | | TP |
| A8 | CENTENNIAL HIGH SCH | 1820 RIMPAU AVE | CIWQS | | TP |
| A9 | CENTENNIAL HIGH SCHO | 1820 RIMPAU AVE | CIWQS | | TP |
| A10 | CENTENNIAL HIGH SCHO | 1820 RIMPAU AVENUE | ENVIROSTOR, SCH, CIWQS | | TP |
| B11 | BL BEALER INC | 1100 OLYMPIC AVE NO | RCRA-SQG, FINDS, ECHO | Lower | 244, 0.046, ENE |
| B12 | BL BEALER INC | 1100 OLYMPIC DR STE | RCRA NonGen / NLR | Lower | 244, 0.046, ENE |
| C13 | A FAMILY DENTAL | 854 MAGNOLIA AVE STE | RCRA NonGen / NLR | Lower | 260, 0.049, WNW |
| D14 | MAYNARD POGUE DDS | 1820 FULLERTON RD | RCRA NonGen / NLR | Higher | 276, 0.052, West |
| D15 | CORONA SUNRISE PHYSI | 1820 FULLERTON RD ST | RCRA-SQG, FINDS, ECHO | Higher | 276, 0.052, West |
| C16 | RIVERSIDE MEDICAL CL | 818 MAGNOLIA AVE | RCRA NonGen / NLR | Higher | 428, 0.081, WNW |
| B17 | MICHAEL RODAK | 1121 OLYMPIC DR. | RCRA NonGen / NLR | Lower | 437, 0.083, ENE |
| B18 | SOFF CUT | 1112 OLYMPIC DR | RCRA-SQG, FINDS, ECHO | Lower | 511, 0.097, ENE |
| E19 | ACTION INDUSTRIES | 1120 OLYMPIC DR | RCRA NonGen / NLR | Lower | 517, 0.098, East |
| E20 | ACTION INDUSTRIES | 1120 OLYMPIC DR | CERS HAZ WASTE, HAZNET, NPDES, CIWQS, CERS, HWTS | Lower | 517, 0.098, East |
| C21 | RIVERSIDE MEDICAL CL | 830 MAGNOLIA AVE | RCRA NonGen / NLR | Higher | 519, 0.098, WNW |
| C22 | RIVERSIDE MEDICAL CL | 830 MAGNOLIA AVE | RCRA NonGen / NLR | Higher | 519, 0.098, WNW |
| F23 | GNB LEASE HOLDINGS L | 1131 OLYMPIC DR | RCRA-SQG | Lower | 606, 0.115, ENE |
| G24 | FACTORY CONNECTION I | 1701 RIMPAU AVE STE | CERS HAZ WASTE, CERS, HWTS | Lower | 649, 0.123, NE |
| G25 | FACTORY CONNECTION I | 1701 RIMPAU AVE STE | RCRA NonGen / NLR | Lower | 649, 0.123, NE |
| G26 | COUTS HEATING & COOL | 1693 RIMPAU AVE | RCRA NonGen / NLR | Lower | 655, 0.124, NE |
| G27 | COUTS HEATING & COOL | 1693 RIMPAU AVE | CERS HAZ WASTE, HAZNET, NPDES, CIWQS, CERS, HWTS | Lower | 655, 0.124, NE |
| 28 | OSBORN, MADELINE | 1550 RIMPAU AVENUE | RCRA NonGen / NLR | Lower | 674, 0.128, NNE |
| H29 | OARIONA LOWE DDS & E | 802 MAGNOLIA AVE STE | RCRA NonGen / NLR | Higher | 779, 0.148, WNW |
| F30 | SORA POWER INC | 1141 OLYMPIC DR | RCRA NonGen / NLR | Lower | 787, 0.149, ENE |
| F31 | SORA POWER INC | 1141 OLYMPIC DR | CERS HAZ WASTE, HAZNET, NPDES, CIWQS, CERS, HWTS | Lower | 787, 0.149, ENE |
| I32 | HOOSIER PLASTIC FABR | 1140 CALIFORNIA AVE | CERS HAZ WASTE, CERS | Lower | 924, 0.175, NE |
| H33 | JS MINUTELLO DDS & R | 770 MAGNOLIA #2E | RCRA NonGen / NLR | Higher | 925, 0.175, West |
| H34 | BABAK ROSHDIEH M.D. | 770 MAGNOLIA AVENUE | RCRA NonGen / NLR | Higher | 925, 0.175, West |
| J35 | JIM FORD | 1626 CONIFER CIRCLE | RCRA NonGen / NLR | Lower | 1004, 0.190, NW |
| I36 | LIGHTHOUSE PACKAGING | 1148 CALIFORNIA AVE | RCRA NonGen / NLR | Lower | 1024, 0.194, NE |
| I37 | CHEMSTAR URETHANES I | 1148 CALIFORNIA AVE | RCRA-SQG, FINDS, ECHO, HAZNET, WDS, CIWQS, HWTS | Lower | 1024, 0.194, NE |
| I38 | TECHNICOTE_INC | 1141 CALIFORNIA AVE | RCRA NonGen / NLR | Lower | 1068, 0.202, NE |
| I39 | TECHNICOTE | 1141 CALIFORNIA | RCRA-SQG, FINDS | Lower | 1068, 0.202, NE |

# MAPPED SITES SUMMARY

Target Property Address:
1820 RIMPAU AVENUE
CORONA, CA 92881

Click on Map ID to see full detail.

| MAP ID | SITE NAME | ADDRESS | DATABASE ACRONYMS | RELATIVE ELEVATION | DIST (ft. & mi.) DIRECTION |
|---|---|---|---|---|---|
| K40 | CENTER MANUFACTURING | 1160 OLYMPIC DR | RCRA-SQG, CERS HAZ WASTE, CHMIRS, EMI, HAZNET,... | Lower | 1102, 0.209, East |
| K41 | WESTERN EQUIPMENT MA | 1160 OLYMPIC DR | RCRA NonGen / NLR | Lower | 1102, 0.209, East |
| I42 | HOOSIER PLASTIC FABR | 1152 CALIFORNIA AVE | CERS HAZ WASTE, HAZNET, NPDES, CIWQS, CERS, HWTS | Lower | 1121, 0.212, ENE |
| I43 | HOOSIER INC | 1152 CALIFORNIA AVE | RCRA NonGen / NLR | Lower | 1121, 0.212, ENE |
| J44 | CHRISTINE WERKSMAN | 1629 CONIFER CIRCLE | RCRA NonGen / NLR | Lower | 1156, 0.219, NW |
| J45 | JR GIBBONS | 1615 HEMLOCK CIRCLE | RCRA NonGen / NLR | Lower | 1201, 0.227, NW |
| 46 | HON SUSHI | 1511 RIMPAU AVE # A1 | CERS HAZ WASTE | Lower | 1204, 0.228, NNE |
| L47 | BAGMASTERS | 1160 CALIFORNIA AVE | RCRA NonGen / NLR | Lower | 1231, 0.233, ENE |
| M48 | REHAB MEDICAL CENTER | 730 MAGNOLIA ST | CERS HAZ WASTE, CERS | Higher | 1251, 0.237, West |
| M49 | CIRCLE CITY HOSPITAL | 730 MAGNOLIA AVE | CA FID UST, CERS | Higher | 1251, 0.237, West |
| M50 | REHAB MEDICAL CENTER | 730 MAGNOLIA ST | UST | Higher | 1251, 0.237, West |
| M51 | CIRCLE CITY HOSPITAL | 730 MAGNOLIA AVE | LUST, SWEEPS UST, Cortese, HAZNET, HIST CORTESE,... | Higher | 1251, 0.237, West |
| M52 | CORONA REGIONAL MEDI | 730 MAGNOLIA AVE | UST | Higher | 1251, 0.237, West |
| M53 | CIRCLE CITY HOSPITAL | 730 OLD MAGNOLIA AVE | HIST UST | Higher | 1251, 0.237, West |
| M54 | CORONA REGIONAL MEDI | 730 MAGNOLIA AVE | RCRA NonGen / NLR | Higher | 1251, 0.237, West |
| L55 | QUALITY BUSINESS SOL | 1161 CALIFORNIA AVE | RCRA-SQG | Lower | 1274, 0.241, NE |
| N56 | SHELL #1205 | 1205 MAGNOLIA AVE | LUST, CDL | Lower | 1794, 0.340, NNE |
| N57 | SHELL MAGNOLIA CORON | 1205 MAGNOLIA AVE | LUST, Cortese, CERS | Lower | 1794, 0.340, NNE |
| O58 | HUNCO DEVELOPMENT | TEMESCAL CANYON RD | LUST, CERS | Higher | 1952, 0.370, SE |
| O59 | HUNCO DEVELOPMENT | TEMESCAL & CALIFORNI | LUST | Higher | 2063, 0.391, ESE |
| 60 | GARRETSON ELEMENTARY | 1650 GARRETSON AVENU | ENVIROSTOR, SCH, CERS | Higher | 3647, 0.691, WNW |
| 61 | H & E ENGINEERING | 958 EL SOBRANTE RD. | ENVIROSTOR, CERS HAZ WASTE, CERS TANKS, HAZNET,... | Lower | 4050, 0.767, North |
| 62 | LINCOLN ALTERNATIVE | 1041 FULLERTON ROAD | ENVIROSTOR, SCH, CERS | Lower | 4164, 0.789, NW |
| 63 | ANACO, AN UNINCORPOR | 1375 MAGNOLIA AVENUE | RCRA-LQG, ENVIROSTOR, DEED, CHMIRS, ICIS, EMI | Lower | 4232, 0.802, NE |

# EXECUTIVE SUMMARY

**TARGET PROPERTY SEARCH RESULTS**

The target property was identified in the following records. For more information on this property see page 9 of the attached EDR Radius Map report:

| Site | Database(s) | EPA ID |
|---|---|---|
| CENTENNIAL HIGH SCHO<br>1820 RIMPAU AVE<br>CORONA, CA 92860 | CIWQS | N/A |
| CENTENNIAL HIGH SCHO<br>1820 RIMPAU AVE<br>CORONA, CA 92879 | CERS HAZ WASTE<br>CHMIRS<br>OES Incident Number: 910863<br>Date Completed: 05-NOV-89<br>CERS | N/A |
| CENTENNIAL HIGH SCHO<br>1820 RIMPAU AVE<br>CORONA, CA 92881 | HAZNET<br>GEPAID: CAL000138361<br>HWTS | N/A |
| VERIZON WIRELESS: CE<br>1820 RIMPAU AVENUE<br>CORONA, CA 92879 | FINDS<br>Registry ID:: 110055709719 | N/A |
| CENTENNIAL HIGH SCHO<br>1820 RIMPAU AVE<br>CORONA, CA 92881 | RCRA NonGen / NLR<br>EPA ID:: CAL000138361 | CAL000138361 |
| CENTENNIAL HIGH SCHO<br>1820 RIMPAU AVE<br>CORONA, CA 92879 | FINDS<br>Registry ID:: 110066657772 | N/A |
| CENTENNIAL HIGH SCHO<br>1820 RIMPAU AVE<br>CORONA, CA 92881 | FINDS<br>Registry ID:: 110070448569<br>ECHO<br>Registry ID: 110070448569 | N/A |
| CENTENNIAL HIGH SCH<br>1820 RIMPAU AVE<br>CORONA, CA 91719 | CIWQS | N/A |
| CENTENNIAL HIGH SCHO<br>1820 RIMPAU AVE<br>CORONA, CA | CIWQS | N/A |
| CENTENNIAL HIGH SCHO<br>1820 RIMPAU AVENUE<br>CORONA, CA 92881 | ENVIROSTOR | N/A |

# EXECUTIVE SUMMARY

Facility Id: 33820003
Facility Id: 60000843
Status: No Further Action

SCH
Facility Id: 33820003
Facility Id: 60000843
Status: No Further Action

CIWQS

**DATABASES WITH NO MAPPED SITES**

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

**STANDARD ENVIRONMENTAL RECORDS**

***Lists of Federal NPL (Superfund) sites***

NPL ---------- National Priority List
Proposed NPL ---------- Proposed National Priority List Sites
NPL LIENS ---------- Federal Superfund Liens

***Lists of Federal Delisted NPL sites***

Delisted NPL ---------- National Priority List Deletions

***Lists of Federal sites subject to CERCLA removals and CERCLA orders***

FEDERAL FACILITY ---------- Federal Facility Site Information listing
SEMS ---------- Superfund Enterprise Management System

***Lists of Federal CERCLA sites with NFRAP***

SEMS-ARCHIVE ---------- Superfund Enterprise Management System Archive

***Lists of Federal RCRA facilities undergoing Corrective Action***

CORRACTS ---------- Corrective Action Report

***Lists of Federal RCRA TSD facilities***

RCRA-TSDF ---------- RCRA - Treatment, Storage and Disposal

***Lists of Federal RCRA generators***

RCRA-LQG ---------- RCRA - Large Quantity Generators
RCRA-VSQG ---------- RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

# EXECUTIVE SUMMARY

***Federal institutional controls / engineering controls registries***

LUCIS ---- Land Use Control Information System
US ENG CONTROLS ---- Engineering Controls Sites List
US INST CONTROLS ---- Institutional Controls Sites List

***Federal ERNS list***

ERNS ---- Emergency Response Notification System

***Lists of state- and tribal (Superfund) equivalent sites***

RESPONSE ---- State Response Sites

***Lists of state and tribal landfills and solid waste disposal facilities***

SWF/LF ---- Solid Waste Information System

***Lists of state and tribal leaking storage tanks***

INDIAN LUST ---- Leaking Underground Storage Tanks on Indian Land
CPS-SLIC ---- Statewide SLIC Cases

***Lists of state and tribal registered storage tanks***

FEMA UST ---- Underground Storage Tank Listing
AST ---- Aboveground Petroleum Storage Tank Facilities
INDIAN UST ---- Underground Storage Tanks on Indian Land

***Lists of state and tribal voluntary cleanup sites***

INDIAN VCP ---- Voluntary Cleanup Priority Listing
VCP ---- Voluntary Cleanup Program Properties

***Lists of state and tribal brownfield sites***

BROWNFIELDS ---- Considered Brownfieds Sites Listing

**ADDITIONAL ENVIRONMENTAL RECORDS**

***Local Brownfield lists***

US BROWNFIELDS ---- A Listing of Brownfields Sites

***Local Lists of Landfill / Solid Waste Disposal Sites***

WMUDS/SWAT ---- Waste Management Unit Database
SWRCY ---- Recycler Database
HAULERS ---- Registered Waste Tire Haulers Listing
INDIAN ODI ---- Report on the Status of Open Dumps on Indian Lands
DEBRIS REGION 9 ---- Torres Martinez Reservation Illegal Dump Site Locations
ODI ---- Open Dump Inventory
IHS OPEN DUMPS ---- Open Dumps on Indian Land

# EXECUTIVE SUMMARY

***Local Lists of Hazardous waste / Contaminated Sites***

| | |
|---|---|
| US HIST CDL | Delisted National Clandestine Laboratory Register |
| HIST Cal-Sites | Historical Calsites Database |
| CDL | Clandestine Drug Labs |
| Toxic Pits | Toxic Pits Cleanup Act Sites |
| US CDL | National Clandestine Laboratory Register |
| AQUEOUS FOAM | Former Fire Training Facility Assessments Listing |
| PFAS | PFAS Contamination Site Location Listing |

***Local Lists of Registered Storage Tanks***

| | |
|---|---|
| CERS TANKS | California Environmental Reporting System (CERS) Tanks |

***Local Land Records***

| | |
|---|---|
| LIENS | Environmental Liens Listing |
| LIENS 2 | CERCLA Lien Information |
| DEED | Deed Restriction Listing |

***Records of Emergency Release Reports***

| | |
|---|---|
| HMIRS | Hazardous Materials Information Reporting System |
| LDS | Land Disposal Sites Listing |
| MCS | Military Cleanup Sites Listing |
| SPILLS 90 | SPILLS 90 data from FirstSearch |

***Other Ascertainable Records***

| | |
|---|---|
| FUDS | Formerly Used Defense Sites |
| DOD | Department of Defense Sites |
| SCRD DRYCLEANERS | State Coalition for Remediation of Drycleaners Listing |
| US FIN ASSUR | Financial Assurance Information |
| EPA WATCH LIST | EPA WATCH LIST |
| 2020 COR ACTION | 2020 Corrective Action Program List |
| TSCA | Toxic Substances Control Act |
| TRIS | Toxic Chemical Release Inventory System |
| SSTS | Section 7 Tracking Systems |
| ROD | Records Of Decision |
| RMP | Risk Management Plans |
| RAATS | RCRA Administrative Action Tracking System |
| PRP | Potentially Responsible Parties |
| PADS | PCB Activity Database System |
| ICIS | Integrated Compliance Information System |
| FTTS | FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act) |
| MLTS | Material Licensing Tracking System |
| COAL ASH DOE | Steam-Electric Plant Operation Data |
| COAL ASH EPA | Coal Combustion Residues Surface Impoundments List |
| PCB TRANSFORMER | PCB Transformer Registration Database |
| RADINFO | Radiation Information Database |
| HIST FTTS | FIFRA/TSCA Tracking System Administrative Case Listing |
| DOT OPS | Incident and Accident Data |
| CONSENT | Superfund (CERCLA) Consent Decrees |

INDIAN RESERV - Indian Reservations
FUSRAP - Formerly Utilized Sites Remedial Action Program
UMTRA - Uranium Mill Tailings Sites
LEAD SMELTERS - Lead Smelter Sites
US AIRS - Aerometric Information Retrieval System Facility Subsystem
US MINES - Mines Master Index File
ABANDONED MINES - Abandoned Mines
DOCKET HWC - Hazardous Waste Compliance Docket Listing
UXO - Unexploded Ordnance Sites
FUELS PROGRAM - EPA Fuels Program Registered Listing
CA BOND EXP. PLAN - Bond Expenditure Plan
CUPA Listings - CUPA Resources List
DRYCLEANERS - Cleaner Facilities
EMI - Emissions Inventory Data
ENF - Enforcement Action Listing
Financial Assurance - Financial Assurance Information Listing
ICE - ICE
HWP - EnviroStor Permitted Facilities Listing
HWT - Registered Hazardous Waste Transporter Database
MINES - Mines Site Location Listing
MWMP - Medical Waste Management Program Listing
NPDES - NPDES Permits Listing
PEST LIC - Pesticide Regulation Licenses Listing
PROC - Certified Processors Database
Notify 65 - Proposition 65 Records
UIC - UIC Listing
UIC GEO - UIC GEO (GEOTRACKER)
WASTEWATER PITS - Oil Wastewater Pits Listing
WDS - Waste Discharge System
WIP - Well Investigation Program Case List
MILITARY PRIV SITES - MILITARY PRIV SITES (GEOTRACKER)
PROJECT - PROJECT (GEOTRACKER)
WDR - Waste Discharge Requirements Listing
NON-CASE INFO - NON-CASE INFO (GEOTRACKER)
OTHER OIL GAS - OTHER OIL & GAS (GEOTRACKER)
PROD WATER PONDS - PROD WATER PONDS (GEOTRACKER)
SAMPLING POINT - SAMPLING POINT (GEOTRACKER)
WELL STIM PROJ - Well Stimulation Project (GEOTRACKER)
MINES MRDS - Mineral Resources Data System

**EDR HIGH RISK HISTORICAL RECORDS**

***EDR Exclusive Records***

EDR MGP - EDR Proprietary Manufactured Gas Plants
EDR Hist Auto - EDR Exclusive Historical Auto Stations
EDR Hist Cleaner - EDR Exclusive Historical Cleaners

**EDR RECOVERED GOVERNMENT ARCHIVES**

***Exclusive Recovered Govt. Archives***

RGA LF - Recovered Government Archive Solid Waste Facilities List

# EXECUTIVE SUMMARY

RGA LUST---------- Recovered Government Archive Leaking Underground Storage Tank

**SURROUNDING SITES: SEARCH RESULTS**

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

**STANDARD ENVIRONMENTAL RECORDS**

***Lists of Federal RCRA generators***

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 06/20/2022 has revealed that there are 8 RCRA-SQG sites within approximately 0.25 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***CORONA SUNRISE PHYSI***<br>EPA ID:: CAD983651035 | ***1820 FULLERTON RD ST*** | ***W 0 - 1/8 (0.052 mi.)*** | ***D15*** | ***61*** |

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***BL BEALER INC***<br>EPA ID:: CAR000068767 | ***1100 OLYMPIC AVE NO*** | ***ENE 0 - 1/8 (0.046 mi.)*** | ***B11*** | ***51*** |
| ***SOFF CUT***<br>EPA ID:: CAR000068759 | ***1112 OLYMPIC DR*** | ***ENE 0 - 1/8 (0.097 mi.)*** | ***B18*** | ***69*** |
| GNB LEASE HOLDINGS L<br>EPA ID:: CAR000330175 | 1131 OLYMPIC DR | ENE 0 - 1/8 (0.115 mi.) | F23 | 149 |
| ***CHEMSTAR URETHANES I***<br>EPA ID:: CAD983609777 | ***1148 CALIFORNIA AVE*** | ***NE 1/8 - 1/4 (0.194 mi.)*** | ***I37*** | ***234*** |
| ***TECHNICOTE***<br>EPA ID:: CAR000076034 | ***1141 CALIFORNIA*** | ***NE 1/8 - 1/4 (0.202 mi.)*** | ***I39*** | ***280*** |
| ***CENTER MANUFACTURING***<br>EPA ID:: CAR000087924 | ***1160 OLYMPIC DR*** | ***E 1/8 - 1/4 (0.209 mi.)*** | ***K40*** | ***282*** |
| QUALITY BUSINESS SOL<br>EPA ID:: CAR000086496 | 1161 CALIFORNIA AVE | NE 1/8 - 1/4 (0.241 mi.) | L55 | 396 |

***Lists of state- and tribal hazardous waste facilities***

ENVIROSTOR: The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

A review of the ENVIROSTOR list, as provided by EDR, and dated 04/25/2022 has revealed that there are 4 ENVIROSTOR sites within approximately 1 mile of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***GARRETSON ELEMENTARY*** | ***1650 GARRETSON AVENU*** | ***WNW 1/2 - 1 (0.691 mi.)*** | ***60*** | ***408*** |
| Facility Id: 60002288 | | | | |
| Status: No Further Action | | | | |

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***H & E ENGINEERING*** | ***958 EL SOBRANTE RD.*** | ***N 1/2 - 1 (0.767 mi.)*** | ***61*** | ***412*** |
| Facility Id: 33340011 | | | | |
| Status: Refer: Other Agency | | | | |
| ***LINCOLN ALTERNATIVE*** | ***1041 FULLERTON ROAD*** | ***NW 1/2 - 1 (0.789 mi.)*** | ***62*** | ***421*** |
| Facility Id: 60000845 | | | | |
| Status: No Action Required | | | | |
| ***ANACO, AN UNINCORPOR*** | ***1375 MAGNOLIA AVENUE*** | ***NE 1/2 - 1 (0.802 mi.)*** | ***63*** | ***425*** |
| Facility Id: 33330008 | | | | |
| Facility Id: 71003713 | | | | |
| Status: Refer: Other Agency | | | | |
| Status: Active | | | | |

***Lists of state and tribal leaking storage tanks***

LUST: Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

A review of the LUST list, as provided by EDR, has revealed that there are 5 LUST sites within approximately 0.5 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***CIRCLE CITY HOSPITAL*** | ***730 MAGNOLIA AVE*** | ***W 1/8 - 1/4 (0.237 mi.)*** | ***M51*** | ***379*** |
| Database: LUST REG 8, Date of Government Version: 02/14/2005 | | | | |
| Database: RIVERSIDE CO. LUST, Date of Government Version: 03/31/2022 | | | | |
| Database: LUST, Date of Government Version: 05/23/2022 | | | | |
| Status: Completed - Case Closed | | | | |

Facility Status: Case Closed
Facility Id: 90639
Global Id: T0606500198
Facility Status: 9
Global ID: T0606500198

| | | | | |
|---|---|---|---|---|
| ***HUNCO DEVELOPMENT*** | ***TEMESCAL CANYON RD*** | ***SE 1/4 - 1/2 (0.370 mi.)*** | ***O58*** | ***406*** |

Database: LUST, Date of Government Version: 05/23/2022
Status: Completed - Case Closed
Global Id: T0606500133

| | | | | |
|---|---|---|---|---|
| HUNCO DEVELOPMENT | TEMESCAL & CALIFORNI | ESE 1/4 - 1/2 (0.391 mi.) | O59 | 408 |

Database: RIVERSIDE CO. LUST, Date of Government Version: 03/31/2022
Facility Id: 89358
Facility Status: 9

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***SHELL #1205*** | ***1205 MAGNOLIA AVE*** | ***NNE 1/4 - 1/2 (0.340 mi.)*** | ***N56*** | ***400*** |

Database: LUST REG 8, Date of Government Version: 02/14/2005
Facility Status: Post remedial action monitoring
Global ID: T0606500247

| | | | | |
|---|---|---|---|---|
| ***SHELL MAGNOLIA CORON*** | ***1205 MAGNOLIA AVE*** | ***NNE 1/4 - 1/2 (0.340 mi.)*** | ***N57*** | ***401*** |

Database: RIVERSIDE CO. LUST, Date of Government Version: 03/31/2022
Database: LUST, Date of Government Version: 05/23/2022
Status: Completed - Case Closed
Facility Id: 91850
Global Id: T0606500247
Facility Status: 9

***Lists of state and tribal registered storage tanks***

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the State Water Resources Control Board's Hazardous Substance Storage Container Database.

A review of the UST list, as provided by EDR, has revealed that there are 2 UST sites within approximately 0.25 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| REHAB MEDICAL CENTER | 730 MAGNOLIA ST | W 1/8 - 1/4 (0.237 mi.) | M50 | 379 |

Database: UST, Date of Government Version: 03/07/2022
Facility Id: FA0014958

| | | | | |
|---|---|---|---|---|
| CORONA REGIONAL MEDI | 730 MAGNOLIA AVE | W 1/8 - 1/4 (0.237 mi.) | M52 | 393 |

Database: UST, Date of Government Version: 03/07/2022
Facility Id: 245

# EXECUTIVE SUMMARY

**ADDITIONAL ENVIRONMENTAL RECORDS**

***Local Lists of Hazardous waste / Contaminated Sites***

CERS HAZ WASTE: List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

A review of the CERS HAZ WASTE list, as provided by EDR, and dated 04/18/2022 has revealed that there are 9 CERS HAZ WASTE sites within approximately 0.25 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***REHAB MEDICAL CENTER*** | ***730 MAGNOLIA ST*** | ***W 1/8 - 1/4 (0.237 mi.)*** | ***M48*** | ***372*** |

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***ACTION INDUSTRIES*** | ***1120 OLYMPIC DR*** | ***E 0 - 1/8 (0.098 mi.)*** | ***E20*** | ***75*** |
| ***FACTORY CONNECTION I*** | ***1701 RIMPAU AVE STE*** | ***NE 0 - 1/8 (0.123 mi.)*** | ***G24*** | ***151*** |
| ***COUTS HEATING & COOL*** | ***1693 RIMPAU AVE*** | ***NE 0 - 1/8 (0.124 mi.)*** | ***G27*** | ***159*** |
| ***SORA POWER INC*** | ***1141 OLYMPIC DR*** | ***ENE 1/8 - 1/4 (0.149 mi.)*** | ***F31*** | ***187*** |
| ***HOOSIER PLASTIC FABR*** | ***1140 CALIFORNIA AVE*** | ***NE 1/8 - 1/4 (0.175 mi.)*** | ***I32*** | ***218*** |
| ***CENTER MANUFACTURING*** | ***1160 OLYMPIC DR*** | ***E 1/8 - 1/4 (0.209 mi.)*** | ***K40*** | ***282*** |
| ***HOOSIER PLASTIC FABR*** | ***1152 CALIFORNIA AVE*** | ***ENE 1/8 - 1/4 (0.212 mi.)*** | ***I42*** | ***317*** |
| HON SUSHI | 1511 RIMPAU AVE # A1 | NNE 1/8 - 1/4 (0.228 mi.) | 46 | 368 |

***Local Lists of Registered Storage Tanks***

SWEEPS UST: Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

A review of the SWEEPS UST list, as provided by EDR, and dated 06/01/1994 has revealed that there is 1 SWEEPS UST site within approximately 0.25 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***CIRCLE CITY HOSPITAL***<br>Status: A<br>Tank Status: A<br>Comp Number: 52817 | ***730 MAGNOLIA AVE*** | ***W 1/8 - 1/4 (0.237 mi.)*** | ***M51*** | ***379*** |

HIST UST: Historical UST Registered Database.

A review of the HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there is 1 HIST UST site within approximately 0.25 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| CIRCLE CITY HOSPITAL<br>Facility Id: 00000052817 | 730 OLD MAGNOLIA AVE | W 1/8 - 1/4 (0.237 mi.) | M53 | 393 |

CA FID UST: The Facility Inventory Database contains active and inactive underground storage tank locations. The source is the State Water Resource Control Board.

A review of the CA FID UST list, as provided by EDR, and dated 10/31/1994 has revealed that there is 1 CA FID UST site within approximately 0.25 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***CIRCLE CITY HOSPITAL***<br>Facility Id: 33004362<br>Status: A | ***730 MAGNOLIA AVE*** | ***W 1/8 - 1/4 (0.237 mi.)*** | ***M49*** | ***378*** |

***Other Ascertainable Records***

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 06/20/2022 has revealed that there are 24 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| MAYNARD POGUE DDS<br>EPA ID:: CAL000178992 | 1820 FULLERTON RD | W 0 - 1/8 (0.052 mi.) | D14 | 59 |
| RIVERSIDE MEDICAL CL<br>EPA ID:: CAL000337433 | 818 MAGNOLIA AVE | WNW 0 - 1/8 (0.081 mi.) | C16 | 64 |
| RIVERSIDE MEDICAL CL<br>EPA ID:: CAL000445348 | 830 MAGNOLIA AVE | WNW 0 - 1/8 (0.098 mi.) | C21 | 144 |
| RIVERSIDE MEDICAL CL<br>EPA ID:: CAL000337431 | 830 MAGNOLIA AVE | WNW 0 - 1/8 (0.098 mi.) | C22 | 146 |
| OARIONA LOWE DDS & E<br>EPA ID:: CAL000469874 | 802 MAGNOLIA AVE STE | WNW 1/8 - 1/4 (0.148 mi.) | H29 | 182 |
| JS MINUTELLO DDS & R<br>EPA ID:: CAL000144369 | 770 MAGNOLIA #2E | W 1/8 - 1/4 (0.175 mi.) | H33 | 224 |
| BABAK ROSHDIEH M.D.<br>EPA ID:: CAC003120381 | 770 MAGNOLIA AVENUE | W 1/8 - 1/4 (0.175 mi.) | H34 | 226 |
| CORONA REGIONAL MEDI<br>EPA ID:: CAL000385968 | 730 MAGNOLIA AVE | W 1/8 - 1/4 (0.237 mi.) | M54 | 394 |

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| BL BEALER INC<br>EPA ID:: CAL000189814 | 1100 OLYMPIC DR STE | ENE 0 - 1/8 (0.046 mi.) | B12 | 54 |
| A FAMILY DENTAL<br>EPA ID:: CAL000401119 | 854 MAGNOLIA AVE STE | WNW 0 - 1/8 (0.049 mi.) | C13 | 56 |
| MICHAEL RODAK<br>EPA ID:: CAC003065568 | 1121 OLYMPIC DR. | ENE 0 - 1/8 (0.083 mi.) | B17 | 67 |
| ACTION INDUSTRIES | 1120 OLYMPIC DR | E 0 - 1/8 (0.098 mi.) | E19 | 72 |

| | | | | |
|---|---|---|---|---|
| EPA ID:: CAL000174609 | | | | |
| FACTORY CONNECTION I<br>EPA ID:: CAL000459624 | 1701 RIMPAU AVE STE | NE 0 - 1/8 (0.123 mi.) | G25 | 154 |
| COUTS HEATING & COOL<br>EPA ID:: CAL000351489 | 1693 RIMPAU AVE | NE 0 - 1/8 (0.124 mi.) | G26 | 157 |
| OSBORN, MADELINE<br>EPA ID:: CAC002968161 | 1550 RIMPAU AVENUE | NNE 1/8 - 1/4 (0.128 mi.) | 28 | 180 |
| SORA POWER INC<br>EPA ID:: CAL000323922 | 1141 OLYMPIC DR | ENE 1/8 - 1/4 (0.149 mi.) | F30 | 185 |
| JIM FORD<br>EPA ID:: CAC003134598 | 1626 CONIFER CIRCLE | NW 1/8 - 1/4 (0.190 mi.) | J35 | 229 |
| LIGHTHOUSE PACKAGING<br>EPA ID:: CAL000427998 | 1148 CALIFORNIA AVE | NE 1/8 - 1/4 (0.194 mi.) | I36 | 231 |
| TECHNICOTE_INC<br>EPA ID:: CAL000092279 | 1141 CALIFORNIA AVE | NE 1/8 - 1/4 (0.202 mi.) | I38 | 277 |
| WESTERN EQUIPMENT MA<br>EPA ID:: CAL000357273 | 1160 OLYMPIC DR | E 1/8 - 1/4 (0.209 mi.) | K41 | 315 |
| HOOSIER INC<br>EPA ID:: CAL000046313 | 1152 CALIFORNIA AVE | ENE 1/8 - 1/4 (0.212 mi.) | I43 | 360 |
| CHRISTINE WERKSMAN<br>EPA ID:: CAC003159593 | 1629 CONIFER CIRCLE | NW 1/8 - 1/4 (0.219 mi.) | J44 | 363 |
| JR GIBBONS<br>EPA ID:: CAC003079802 | 1615 HEMLOCK CIRCLE | NW 1/8 - 1/4 (0.227 mi.) | J45 | 365 |
| BAGMASTERS<br>EPA ID:: CAL000178135 | 1160 CALIFORNIA AVE | ENE 1/8 - 1/4 (0.233 mi.) | L47 | 369 |

Cortese: The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

A review of the Cortese list, as provided by EDR, and dated 03/21/2022 has revealed that there are 2 Cortese sites within approximately 0.5 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***CIRCLE CITY HOSPITAL*** | ***730 MAGNOLIA AVE*** | ***W 1/8 - 1/4 (0.237 mi.)*** | ***M51*** | ***379*** |
| Cleanup Status: COMPLETED - CASE CLOSED | | | | |

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***SHELL MAGNOLIA CORON*** | ***1205 MAGNOLIA AVE*** | ***NNE 1/4 - 1/2 (0.340 mi.)*** | ***N57*** | ***401*** |
| Cleanup Status: COMPLETED - CASE CLOSED | | | | |

HIST CORTESE: The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

A review of the HIST CORTESE list, as provided by EDR, and dated 04/01/2001 has revealed that there

is 1 HIST CORTESE site within approximately 0.5 miles of the target property.

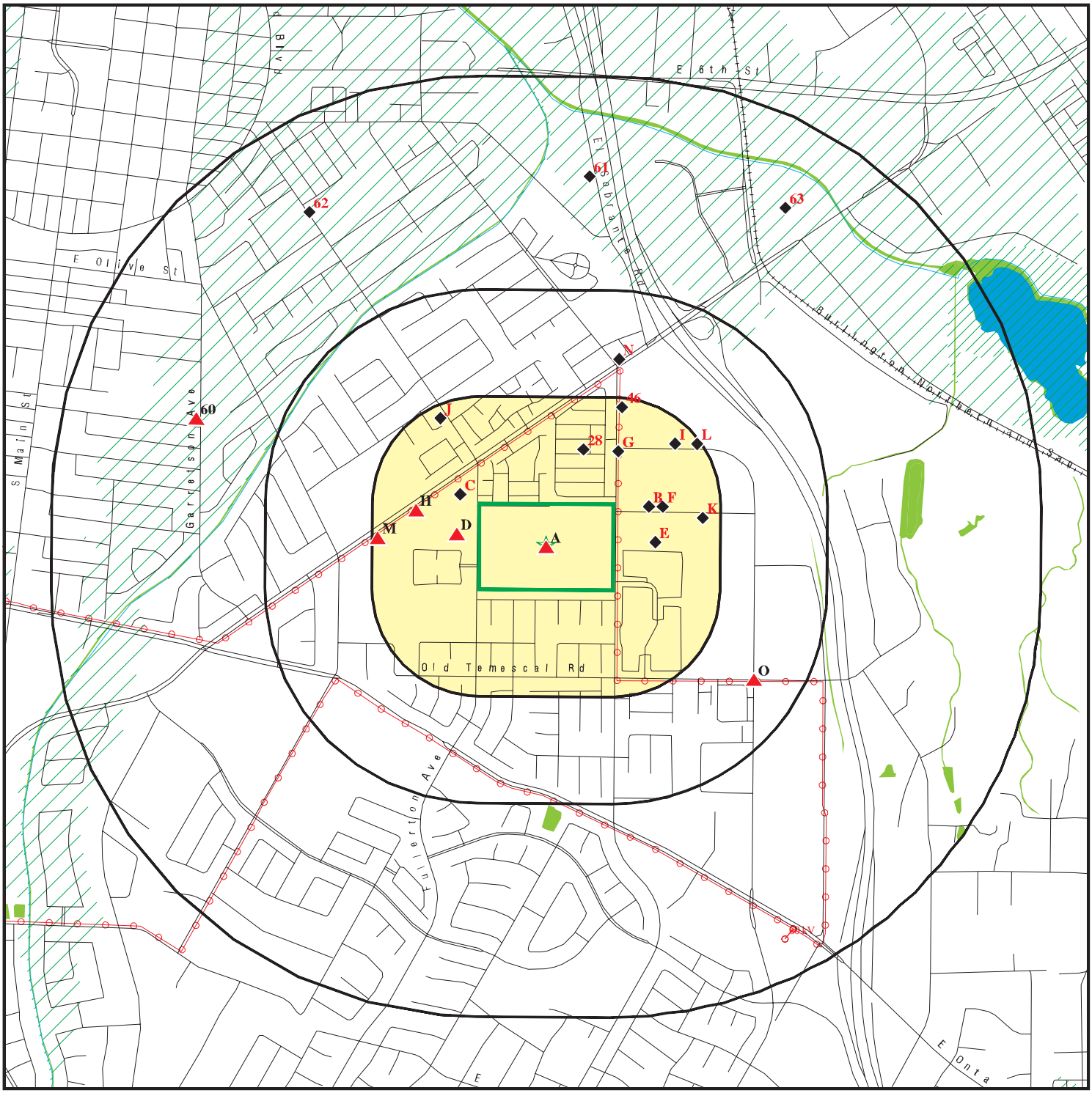
| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***CIRCLE CITY HOSPITAL*** Reg Id: 083301602T | ***730 MAGNOLIA AVE*** | ***W 1/8 - 1/4 (0.237 mi.)*** | ***M51*** | ***379*** |

# EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 1 records.

| Site Name | Database(s) |
|---|---|
| NWC OF ONTARIO & STATE | CPS-SLIC |

# OVERVIEW MAP - 7070636.2S




- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- Special Flood Hazard Area (1%)
- 0.2% Annual Chance Flood Hazard
- National Wetland Inventory
- State Wetlands
- Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

| | |
|---|---|
| SITE NAME: Centennial High School | CLIENT: EEC |
| ADDRESS: 1820 Rimpau Avenue<br>Corona CA 92881 | CONTACT: Laura Holder<br>INQUIRY #: 7070636.2s |
| LAT/LONG: 33.85837 / 117.547498 | DATE: July 29, 2022 2:41 pm |

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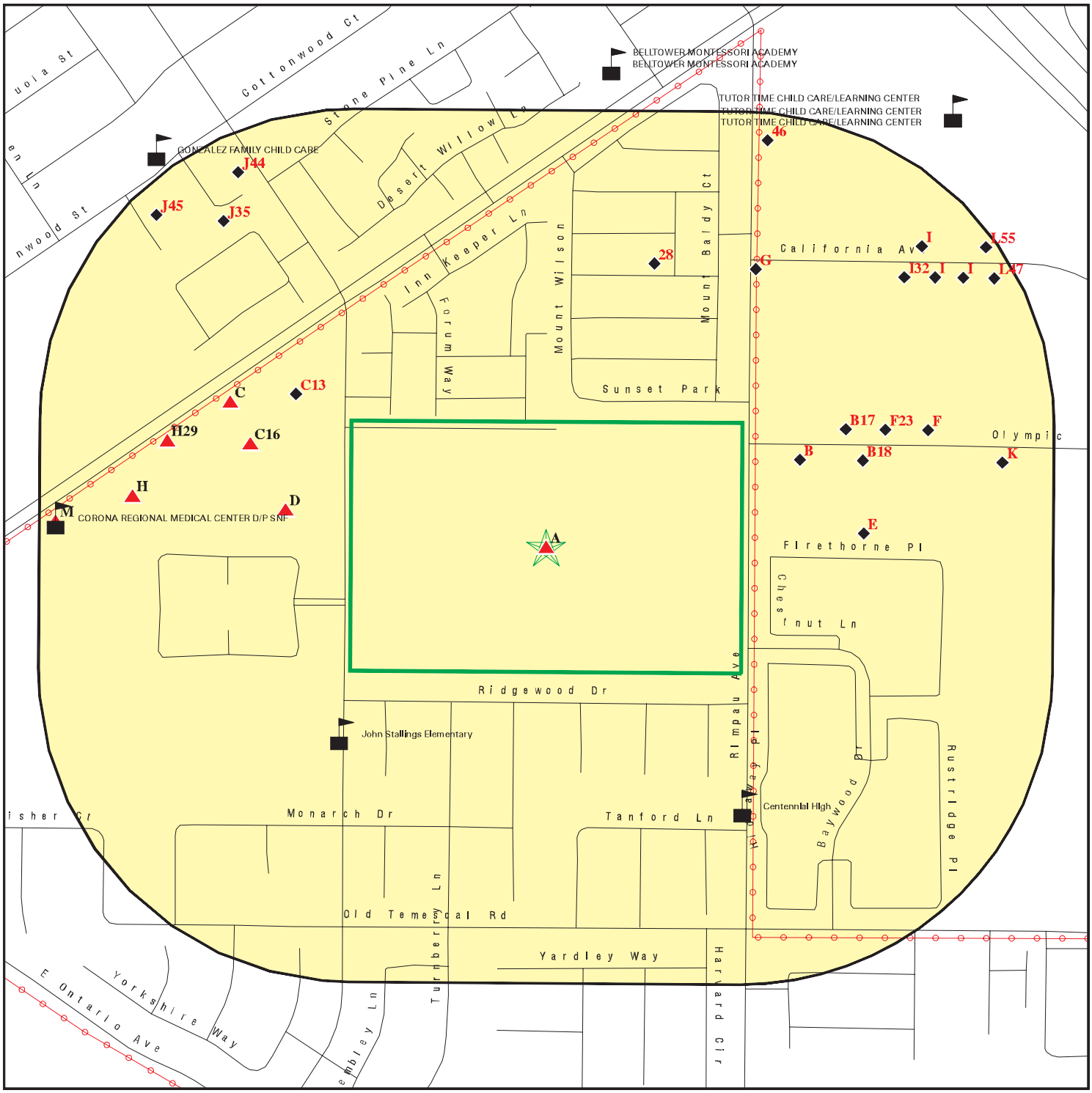
# DETAIL MAP - 7070636.2S




- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- Special Flood Hazard Area (1%)
- 0.2% Annual Chance Flood Hazard
- Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

| | |
|---|---|
| SITE NAME: Centennial High School | CLIENT: EEC |
| ADDRESS: 1820 Rimpau Avenue<br>Corona CA 92881 | CONTACT: Laura Holder<br>INQUIRY #: 7070636.2s |
| LAT/LONG: 33.85837 / 117.547498 | DATE: July 29, 2022 2:42 pm |

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# MAP FINDINGS SUMMARY

| Database | Search Distance (Miles) | Target Property | < 1/8 | 1/8 - 1/4 | 1/4 - 1/2 | 1/2 - 1 | > 1 | Total Plotted |
|---|---|---|---|---|---|---|---|---|
| **STANDARD ENVIRONMENTAL RECORDS** | | | | | | | | |
| ***Lists of Federal NPL (Superfund) sites*** | | | | | | | | |
| NPL | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| Proposed NPL | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| NPL LIENS | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| ***Lists of Federal Delisted NPL sites*** | | | | | | | | |
| Delisted NPL | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| ***Lists of Federal sites subject to CERCLA removals and CERCLA orders*** | | | | | | | | |
| FEDERAL FACILITY | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| SEMS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***Lists of Federal CERCLA sites with NFRAP*** | | | | | | | | |
| SEMS-ARCHIVE | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***Lists of Federal RCRA facilities undergoing Corrective Action*** | | | | | | | | |
| CORRACTS | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| ***Lists of Federal RCRA TSD facilities*** | | | | | | | | |
| RCRA-TSDF | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***Lists of Federal RCRA generators*** | | | | | | | | |
| RCRA-LQG | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| RCRA-SQG | 0.250 | | 4 | 4 | NR | NR | NR | 8 |
| RCRA-VSQG | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| ***Federal institutional controls / engineering controls registries*** | | | | | | | | |
| LUCIS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| US ENG CONTROLS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| US INST CONTROLS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***Federal ERNS list*** | | | | | | | | |
| ERNS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| ***Lists of state- and tribal (Superfund) equivalent sites*** | | | | | | | | |
| RESPONSE | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| ***Lists of state- and tribal hazardous waste facilities*** | | | | | | | | |
| ENVIROSTOR | 1.000 | 1 | 0 | 0 | 0 | 4 | NR | 5 |
| ***Lists of state and tribal landfills and solid waste disposal facilities*** | | | | | | | | |
| SWF/LF | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |

# MAP FINDINGS SUMMARY

| Database | Search Distance (Miles) | Target Property | < 1/8 | 1/8 - 1/4 | 1/4 - 1/2 | 1/2 - 1 | > 1 | Total Plotted |
|---|---|---|---|---|---|---|---|---|
| ***Lists of state and tribal leaking storage tanks*** | | | | | | | | |
| LUST | 0.500 | | 0 | 1 | 4 | NR | NR | 5 |
| INDIAN LUST | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| CPS-SLIC | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***Lists of state and tribal registered storage tanks*** | | | | | | | | |
| FEMA UST | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| UST | 0.250 | | 0 | 2 | NR | NR | NR | 2 |
| AST | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| INDIAN UST | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| ***Lists of state and tribal voluntary cleanup sites*** | | | | | | | | |
| INDIAN VCP | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| VCP | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***Lists of state and tribal brownfield sites*** | | | | | | | | |
| BROWNFIELDS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| **ADDITIONAL ENVIRONMENTAL RECORDS** | | | | | | | | |
| ***Local Brownfield lists*** | | | | | | | | |
| US BROWNFIELDS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***Local Lists of Landfill / Solid Waste Disposal Sites*** | | | | | | | | |
| WMUDS/SWAT | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| SWRCY | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| HAULERS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| INDIAN ODI | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| DEBRIS REGION 9 | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ODI | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| IHS OPEN DUMPS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***Local Lists of Hazardous waste / Contaminated Sites*** | | | | | | | | |
| US HIST CDL | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| HIST Cal-Sites | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| SCH | 0.250 | 1 | 0 | 0 | NR | NR | NR | 1 |
| CDL | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| CERS HAZ WASTE | 0.250 | 1 | 3 | 6 | NR | NR | NR | 10 |
| Toxic Pits | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| US CDL | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| AQUEOUS FOAM | TP | | NR | NR | NR | NR | NR | 0 |
| PFAS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***Local Lists of Registered Storage Tanks*** | | | | | | | | |
| SWEEPS UST | 0.250 | | 0 | 1 | NR | NR | NR | 1 |
| HIST UST | 0.250 | | 0 | 1 | NR | NR | NR | 1 |
| CA FID UST | 0.250 | | 0 | 1 | NR | NR | NR | 1 |

# MAP FINDINGS SUMMARY

| Database | Search Distance (Miles) | Target Property | < 1/8 | 1/8 - 1/4 | 1/4 - 1/2 | 1/2 - 1 | > 1 | Total Plotted |
|---|---|---|---|---|---|---|---|---|
| CERS TANKS | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| ***Local Land Records*** | | | | | | | | |
| LIENS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| LIENS 2 | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| DEED | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***Records of Emergency Release Reports*** | | | | | | | | |
| HMIRS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| CHMIRS | 0.001 | 1 | 0 | NR | NR | NR | NR | 1 |
| LDS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| MCS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| SPILLS 90 | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| ***Other Ascertainable Records*** | | | | | | | | |
| RCRA NonGen / NLR | 0.250 | 1 | 10 | 14 | NR | NR | NR | 25 |
| FUDS | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| DOD | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| SCRD DRYCLEANERS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| US FIN ASSUR | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| EPA WATCH LIST | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| 2020 COR ACTION | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| TSCA | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| TRIS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| SSTS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| ROD | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| RMP | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| RAATS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| PRP | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| PADS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| ICIS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| FTTS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| MLTS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| COAL ASH DOE | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| COAL ASH EPA | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| PCB TRANSFORMER | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| RADINFO | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| HIST FTTS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| DOT OPS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| CONSENT | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| INDIAN RESERV | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| FUSRAP | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| UMTRA | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| LEAD SMELTERS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| US AIRS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| US MINES | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| ABANDONED MINES | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| FINDS | 0.001 | 3 | 0 | NR | NR | NR | NR | 3 |
| DOCKET HWC | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| ECHO | 0.001 | 1 | 0 | NR | NR | NR | NR | 1 |
| UXO | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |

# MAP FINDINGS SUMMARY

| Database | Search Distance (Miles) | Target Property | < 1/8 | 1/8 - 1/4 | 1/4 - 1/2 | 1/2 - 1 | > 1 | Total Plotted |
|---|---|---|---|---|---|---|---|---|
| FUELS PROGRAM | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| CA BOND EXP. PLAN | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| Cortese | 0.500 | | 0 | 1 | 1 | NR | NR | 2 |
| CUPA Listings | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| DRYCLEANERS | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| EMI | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| ENF | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| Financial Assurance | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| HAZNET | 0.001 | 1 | 0 | NR | NR | NR | NR | 1 |
| ICE | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| HIST CORTESE | 0.500 | | 0 | 1 | 0 | NR | NR | 1 |
| HWP | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| HWT | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| MINES | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| MWMP | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| NPDES | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| PEST LIC | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| PROC | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| Notify 65 | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| UIC | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| UIC GEO | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| WASTEWATER PITS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| WDS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| WIP | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| MILITARY PRIV SITES | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| PROJECT | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| WDR | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| CIWQS | 0.001 | 4 | 0 | NR | NR | NR | NR | 4 |
| CERS | 0.001 | 1 | 0 | NR | NR | NR | NR | 1 |
| NON-CASE INFO | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| OTHER OIL GAS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| PROD WATER PONDS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| SAMPLING POINT | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| WELL STIM PROJ | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| MINES MRDS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| HWTS | TP | 1 | NR | NR | NR | NR | NR | 1 |
| **EDR HIGH RISK HISTORICAL RECORDS** | | | | | | | | |
| ***EDR Exclusive Records*** | | | | | | | | |
| EDR MGP | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| EDR Hist Auto | 0.125 | | 0 | NR | NR | NR | NR | 0 |
| EDR Hist Cleaner | 0.125 | | 0 | NR | NR | NR | NR | 0 |
| **EDR RECOVERED GOVERNMENT ARCHIVES** | | | | | | | | |
| ***Exclusive Recovered Govt. Archives*** | | | | | | | | |
| RGA LF | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| RGA LUST | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| - Totals -- | | 16 | 17 | 32 | 5 | 4 | 0 | 74 |

# MAP FINDINGS SUMMARY

| Database | Search Distance (Miles) | Target Property | < 1/8 | 1/8 - 1/4 | 1/4 - 1/2 | 1/2 - 1 | > 1 | Total Plotted |
|---|---|---|---|---|---|---|---|---|

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

**A1** **CENTENNIAL HIGH SCHOOL TRACK & FIELD** **CIWQS** **S121628038**
**Target** **1820 RIMPAU AVE** **N/A**
**Property** **CORONA, CA 92860**

**Site 1 of 10 in cluster A**

**Actual:** **795 ft.**

CIWQS:

| | |
|---|---|
| Name: | CENTENNIAL HIGH SCHOOL TRACK & FIELD |
| Address: | 1820 RIMPAU AVE |
| City,State,Zip: | CORONA, CA 92860 |
| Agency: | Corona Norco Unified School District |
| Agency Address: | 2820 Clark Aveune, Norco, CA 92860 |
| Place/Project Type: | Construction - Other: School site. |
| SIC/NAICS: | Not reported |
| Region: | 8 |
| Program: | CONSTW |
| Regulatory Measure Status: | Terminated |
| Regulatory Measure Type: | Storm water construction |
| Order Number: | 2009-0009-DWQ |
| WDID: | 8 33C351230 |
| NPDES Number: | CAS000002 |
| Adoption Date: | Not reported |
| Effective Date: | 03/19/2008 |
| Termination Date: | 03/03/2011 |
| Expiration/Review Date: | Not reported |
| Design Flow: | Not reported |
| Major/Minor: | Not reported |
| Complexity: | Not reported |
| TTWQ: | Not reported |
| Enforcement Actions within 5 years: | 0 |
| Violations within 5 years: | 0 |
| Latitude: | 33.859167 |
| Longitude: | -117.54833 |

---

**A2** **CENTENNIAL HIGH SCHOOL** **CERS HAZ WASTE** **S100275462**
**Target** **1820 RIMPAU AVE** **CHMIRS** **N/A**
**Property** **CORONA, CA 92879** **CERS**

**Site 2 of 10 in cluster A**

**Actual:** **795 ft.**

CERS HAZ WASTE:

| | |
|---|---|
| Name: | CENTENNIAL HIGH SCHOOL |
| Address: | 1820 RIMPAU AVE |
| City,State,Zip: | CORONA, CA 92879 |
| Site ID: | 175520 |
| CERS ID: | 10545853 |
| CERS Description: | Hazardous Waste Generator |

CHMIRS:

| | |
|---|---|
| Name: | Not reported |
| Address: | 1820 RIMPAU AVE |
| City,State,Zip: | CORONA, CA 91719 |
| OES Incident Number: | 910863 |
| OES notification: | Not reported |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **05-NOV-89** |
| Property Use: | 200 |
| Agency Id Number: | 33025 |

**CENTENNIAL HIGH SCHOOL (Continued)** **S100275462**

| | |
|---|---|
| Agency Incident Number: | 93321 |
| Time Notified: | 1421 |
| Time Completed: | 1647 |
| Surrounding Area: | 400 |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | N |
| Resp Agncy Personel # Of Decontaminated: | 2 |
| Responding Agency Personel # Of Injuries: | 0 |
| Responding Agency Personel # Of Fatalities: | 0 |
| Others Number Of Decontaminated: | 0 |
| Others Number Of Injuries: | 0 |
| Others Number Of Fatalities: | 0 |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | CAPTAIN RICHARD Z. HERNANDEZ |
| Report Date: | 05-NOV-89 |
| Facility Telephone: | 714 736-2220 |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Not reported |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 88-92 |
| Agency: | Not reported |
| Incident Date: | 05-NOV-89 |
| Admin Agency: | Not reported |
| Amount: | Not reported |
| Contained: | Not reported |
| Site Type: | Not reported |
| E Date: | 28-JUN-90 |
| Substance: | Not reported |
| Unknown: | Not reported |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | Not reported |
| Number of Injuries: | Not reported |
| Number of Fatalities: | Not reported |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |

**CENTENNIAL HIGH SCHOOL (Continued)** **S100275462**

Description: Not reported

CERS:
Name: CENTENNIAL HIGH SCHO
Address: 1820 RIMPAU AVENUE
City,State,Zip: CORONA, CA 92881-3228
Site ID: 606550
CERS ID: 33820003
CERS Description: School Investigation

Affiliation:
Affiliation Type Desc: Supervisor
Entity Name: Charles Ridenour
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Name: CENTENNIAL HIGH SCHO
Address: 1820 RIMPAU AVENUE
City,State,Zip: CORONA, CA 92881
Site ID: 606551
CERS ID: 60000843
CERS Description: School Investigation

Affiliation:
Affiliation Type Desc: Supervisor
Entity Name: Shahir Haddad
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Lead Project Manager
Entity Name: Aslam Shareef
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Name: CENTENNIAL HIGH SCHOOL
Address: 1820 RIMPAU AVE
City,State,Zip: CORONA, CA 92879
Site ID: 175520
CERS ID: 10545853
CERS Description: Chemical Storage Facilities

**CENTENNIAL HIGH SCHOOL (Continued)** **S100275462**

Violations:

| | |
|---|---|
| Site ID: | 175520 |
| Site Name: | Centennial High School |
| Violation Date: | 02-22-2019 |
| Citation: | HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4) |
| Violation Description: | Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years. |
| Violation Notes: | No training records on site. Provide annual employee training documents for review. |
| Violation Division: | Corona Fire Department |
| Violation Program: | HMRRP |
| Violation Source: | CERS, |

| | |
|---|---|
| Site ID: | 175520 |
| Site Name: | Centennial High School |
| Violation Date: | 01-15-2016 |
| Citation: | HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1) |
| Violation Description: | Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities. |
| Violation Notes: | Returned to compliance on 09/20/2016. Add: Muriatic Acid max=60 gal. largest cont. =15 gal. Change: Carbon Dioxide name to "Liquid C02", Helium max 1200 cu ft. note: Change: 02 max =600 cu ft, Acetylene max=480 largest cont. 120 cu ft, Argon-37 max=800 cu ft largest cont.=248 cu ft, Argon/C02 max=450 cu ft. largest cont =150 cu ft. MET WITH TERRY LONG, HE EXPLAINED THAT THE INVENTORIES THROUGHOUT THE HIGH SCHOOLS WERE BEING MOVED AND WOULD UPDATE INVENTORIES ACCORDINGLY. DL |
| Violation Division: | Corona Fire Department |
| Violation Program: | HMRRP |
| Violation Source: | CERS, |

| | |
|---|---|
| Site ID: | 175520 |
| Site Name: | Centennial High School |
| Violation Date: | 01-15-2016 |
| Citation: | HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple |
| Violation Description: | Business Plan Program - Administration/Documentation - General |
| Violation Notes: | Returned to compliance on 03/16/2016. Need placard for gas storage rooms and welding shop. Send placard photos to: ab@ggcorp.net |
| Violation Division: | Corona Fire Department |
| Violation Program: | HMRRP |
| Violation Source: | CERS, |

| | |
|---|---|
| Site ID: | 175520 |
| Site Name: | Centennial High School |
| Violation Date: | 02-22-2019 |
| Citation: | Un-Specified |
| Violation Description: | Business Plan Program - Operations/Maintenance - General Local Ordinance |
| Violation Notes: | Permit not available. Obtain permit from Corona Fire Dept. Contact Denise at 951-736-2459. |
| Violation Division: | Corona Fire Department |
| Violation Program: | HMRRP |

**CENTENNIAL HIGH SCHOOL (Continued)** **S100275462**

Violation Source: CERS,

Site ID: 175520
Site Name: Centennial High School
Violation Date: 01-15-2016
Citation: HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4)
Violation Description: Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years.
Violation Notes: Returned to compliance on 03/23/2016. Provide documentation of most recent hazmat training. Email to: ab@ggcorp.net
Violation Division: Corona Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-22-2019
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Corona Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 03-16-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Corona Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-15-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: emailed corrections 6/22/16
Eval Division: Corona Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 03-29-2019
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Corona Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Enforcement Action:
Site ID: 175520

**CENTENNIAL HIGH SCHOOL (Continued)** **S100275462**

Site Name: Centennial High School
Site Address: 1820 RIMPAU AVE
Site City: CORONA
Site Zip: 92879
Enf Action Date: 01-15-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Corona Fire Department
Enf Action Program: HMRRP
Enf Action Source: CERS,

Site ID: 175520
Site Name: Centennial High School
Site Address: 1820 RIMPAU AVE
Site City: CORONA
Site Zip: 92879
Enf Action Date: 02-22-2019
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Corona Fire Department
Enf Action Program: HMRRP
Enf Action Source: CERS,

Site ID: 175520
Site Name: Centennial High School
Site Address: 1820 RIMPAU AVE
Site City: CORONA
Site Zip: 92879
Enf Action Date: 03-29-2017
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Failure to correct Hazardous Materials Plan; due by 4/5/17.
Enf Action Division: Corona Fire Department
Enf Action Program: UNSPEC
Enf Action Source: CERS,

Affiliation:
Affiliation Type Desc: Environmental Contact
Entity Name: Andrew Sterner
Entity Title: Not reported
Affiliation Address: 300 Buena Vista Ave
Affiliation City: Corona
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92882
Affiliation Phone: ,

Affiliation Type Desc: CUPA District
Entity Name: Riverside Cnty Env Health
Entity Title: Not reported
Affiliation Address: 4065 County Circle Drive, Room 104
Affiliation City: Riverside
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92503

**CENTENNIAL HIGH SCHOOL (Continued)** **S100275462**

| | |
|---|---|
| Affiliation Phone: | (951) 358-5055, |
| Affiliation Type Desc: | Document Preparer |
| Entity Name: | Terry Long |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | , |
| Affiliation Type Desc: | Identification Signer |
| Entity Name: | Terry Long |
| Entity Title: | Support Services Supervisor |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | , |
| Affiliation Type Desc: | Legal Owner |
| Entity Name: | Corona Norco Unified School District |
| Entity Title: | Not reported |
| Affiliation Address: | 2820 Clark Ave. |
| Affiliation City: | Corona |
| Affiliation State: | CA |
| Affiliation Country: | United States |
| Affiliation Zip: | 92860 |
| Affiliation Phone: | (951) 736-5000, |
| Affiliation Type Desc: | Parent Corporation |
| Entity Name: | Centennial High School |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | , |
| Affiliation Type Desc: | Facility Mailing Address |
| Entity Name: | Mailing Address |
| Entity Title: | Not reported |
| Affiliation Address: | 1820 Rimpau Avenue |
| Affiliation City: | Corona |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 92881 |
| Affiliation Phone: | , |
| Affiliation Type Desc: | Operator |
| Entity Name: | Centennial High School |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |

**CENTENNIAL HIGH SCHOOL (Continued)** **S100275462**

Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (951) 739-5670,

---

**A3** **CENTENNIAL HIGH SCHOOL CNUSD** **HAZNET** **S123817276**
**Target** **1820 RIMPAU AVE** **HWTS** **N/A**
**Property** **CORONA, CA 92881**

**Site 3 of 10 in cluster A**

**Actual:** **795 ft.**

HAZNET:
Name: CENTENNIAL HIGH SCHOOL CNUSD
Address: 1820 RIMPAU AVE
Address 2: Not reported
City,State,Zip: CORONA, CA 928600000
Contact: TERRY LONG
Telephone: 9517363316
Mailing Name: Not reported
Mailing Address: 2820 CLARK AVE

Year: 2018
Gepaid: CAL000138361
TSD EPA ID: CAD008364432
CA Waste Code: 541 - Photochemicals/photoprocessing waste
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.07000

Year: 2018
Gepaid: CAL000138361
TSD EPA ID: CAD008364432
CA Waste Code: 291 - Latex waste
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.18765

Year: 2017
Gepaid: CAL000138361
TSD EPA ID: CAD044429835
CA Waste Code: 551 - Laboratory waste chemicals
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.05085

Year: 2016
Gepaid: CAL000138361
TSD EPA ID: CAT080013352
CA Waste Code: 291 - Latex waste
Disposal Method: H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons: 0.8428

Year: 2016
Gepaid: CAL000138361
TSD EPA ID: CAD008364432
CA Waste Code: 541 - Photochemicals/photoprocessing waste

**CENTENNIAL HIGH SCHOOL CNUSD (Continued)** **S123817276**

| | |
|---|---|
| Disposal Method: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Tons: | 0.2502 |
| Year: | 2016 |
| Gepaid: | CAL000138361 |
| TSD EPA ID: | CAD008364432 |
| CA Waste Code: | 343 - Unspecified organic liquid mixture |
| Disposal Method: | H061 - Fuel Blending Prior To Energy Recovery At Another Site |
| Tons: | 0.187 |
| Year: | 2016 |
| Gepaid: | CAL000138361 |
| TSD EPA ID: | CAD008364432 |
| CA Waste Code: | 352 - Other organic solids |
| Disposal Method: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Tons: | 0.22935 |
| Year: | 2015 |
| Gepaid: | CAL000138361 |
| TSD EPA ID: | CAD008364432 |
| CA Waste Code: | 213 - Hydrocarbon solvents (benzene, hexane, Stoddard, Etc.) |
| Disposal Method: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Tons: | 0.4587 |
| Year: | 2015 |
| Gepaid: | CAL000138361 |
| TSD EPA ID: | CAD008364432 |
| CA Waste Code: | 135 - Unspecified aqueous solution |
| Disposal Method: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Tons: | 0.126 |
| Year: | 2014 |
| Gepaid: | CAL000138361 |
| TSD EPA ID: | CAD008364432 |
| CA Waste Code: | 135 - Unspecified aqueous solution |
| Disposal Method: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Tons: | 0.126 |

Click this hyperlink while viewing on your computer to access
33 additional CA HAZNET: record(s) in the EDR Site Report.

Additional Info:

| | |
|---|---|
| Year: | 2016 |
| Gen EPA ID: | CAL000138361 |
| Shipment Date: | 20150713 |
| Creation Date: | 9/11/2015 22:15:55 |
| Receipt Date: | 20150716 |
| Manifest ID: | 012153277JJK |
| Trans EPA ID: | CAR000249672 |
| Trans Name: | SUN ENVIRONMENTAL ENGINEERING SERVICES INC |

**CENTENNIAL HIGH SCHOOL CNUSD (Continued)** **S123817276**

| | |
|---|---|
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD008364432 |
| Trans Name: | RHO-CHEM LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 213 - Hydrocarbon solvents (benzene, hexane, Stoddard, etc. |
| RCRA Code: | D001 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.4587 |
| Waste Quantity: | 110 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20150713 |
| Creation Date: | 9/11/2015 22:15:55 |
| Receipt Date: | 20150716 |
| Manifest ID: | 012153277JJK |
| Trans EPA ID: | CAR000249672 |
| Trans Name: | SUN ENVIRONMENTAL ENGINEERING SERVICES INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD008364432 |
| Trans Name: | RHO-CHEM LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 135 - Unspecified aqueous solution |
| RCRA Code: | D011 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.126 |
| Waste Quantity: | 30 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2015 |
| Gen EPA ID: | CAL000138361 |

| | |
|---|---|
| Shipment Date: | 20150713 |
| Creation Date: | 9/11/2015 22:15:55 |
| Receipt Date: | 20150716 |
| Manifest ID: | 012153277JJK |
| Trans EPA ID: | CAR000249672 |
| Trans Name: | SUN ENVIRONMENTAL ENGINEERING SERVICES INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD008364432 |

**CENTENNIAL HIGH SCHOOL CNUSD (Continued)** **S123817276**

| | |
|---|---|
| Trans Name: | RHO-CHEM LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 213 - Hydrocarbon solvents (benzene, hexane, Stoddard, etc. |
| RCRA Code: | D001 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.4587 |
| Waste Quantity: | 110 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20150713 |
| Creation Date: | 9/11/2015 22:15:55 |
| Receipt Date: | 20150716 |
| Manifest ID: | 012153277JJK |
| Trans EPA ID: | CAR000249672 |
| Trans Name: | SUN ENVIRONMENTAL ENGINEERING SERVICES INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD008364432 |
| Trans Name: | RHO-CHEM LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 135 - Unspecified aqueous solution |
| RCRA Code: | D011 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.126 |
| Waste Quantity: | 30 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2010 |
| Gen EPA ID: | CAL000138361 |
| | |
| Shipment Date: | 20100816 |
| Creation Date: | 10/8/2010 18:30:41 |
| Receipt Date: | 20100816 |
| Manifest ID: | 007091453JJK |
| Trans EPA ID: | CAD028277036 |
| Trans Name: | ASBURY ENVIRONMENTAL SERVICES |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080013352 |
| Trans Name: | DEMENNO / KERDOON |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |

**CENTENNIAL HIGH SCHOOL CNUSD (Continued)** **S123817276**

| | |
|---|---|
| Waste Code Description: | 222 - Oil/water separation sludge |
| RCRA Code: | Not reported |
| Meth Code: | H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect |
| Quantity Tons: | 4.17 |
| Waste Quantity: | 1000 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20100310 |
| Creation Date: | 6/29/2010 18:30:08 |
| Receipt Date: | 20100310 |
| Manifest ID: | 006433511JJK |
| Trans EPA ID: | CAD982467821 |
| Trans Name: | SUN ENVIRONMENTAL ENGINEERING SERVICES INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080013352 |
| Trans Name: | DEMENNO-KERDOON |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 135 - Unspecified aqueous solution |
| RCRA Code: | Not reported |
| Meth Code: | H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect |
| Quantity Tons: | 0.231 |
| Waste Quantity: | 55 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2006 |
| Gen EPA ID: | CAL000138361 |
| | |
| Shipment Date: | 20060609 |
| Creation Date: | 9/14/2006 18:38:11 |
| Receipt Date: | 20060615 |
| Manifest ID: | 25198244 |
| Trans EPA ID: | CAD983649880 |
| Trans Name: | GENERAL ENVIRONMENTAL MGMT INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD980884183 |
| Trans Name: | GEM RANCHO CORDOVA LLC |
| TSDF Alt EPA ID: | CAD980884183 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 551 - Laboratory waste chemicals 561 Detergent and soap |
| RCRA Code: | D011 |
| Meth Code: | H01 - Transfer Station |

**CENTENNIAL HIGH SCHOOL CNUSD (Continued)** **S123817276**

| | |
|---|---|
| Quantity Tons: | 0.1668 |
| Waste Quantity: | 40 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2002 |
| Gen EPA ID: | CAL000138361 |
| Shipment Date: | 20020626 |
| Creation Date: | 9/18/2002 18:32:45 |
| Receipt Date: | 20020712 |
| Manifest ID: | 20653002 |
| Trans EPA ID: | CAD983649880 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | AZD009015389 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 141 - Off-specification, aged, or surplus inorganics |
| RCRA Code: | D002 |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.02 |
| Waste Quantity: | 40 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| Shipment Date: | 20020626 |
| Creation Date: | 9/18/2002 18:32:45 |
| Receipt Date: | 20020712 |
| Manifest ID: | 20653002 |
| Trans EPA ID: | CAD983649880 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | AZD009015389 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 541 - Photochemicals / photo processing waste |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.1251 |
| Waste Quantity: | 30 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |

**CENTENNIAL HIGH SCHOOL CNUSD (Continued)** **S123817276**

| | |
|---|---|
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20020429 |
| Creation Date: | 2/4/2003 14:36:32 |
| Receipt Date: | 20020515 |
| Manifest ID: | 20652893 |
| Trans EPA ID: | CAD983049880 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | CAL000048668 |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | AZD009015389 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 181 - Other inorganic solid waste Organics |
| RCRA Code: | D009 |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.0025 |
| Waste Quantity: | 5 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2014 |
| Gen EPA ID: | CAL000138361 |
| | |
| Shipment Date: | 20140808 |
| Creation Date: | 9/30/2014 22:15:08 |
| Receipt Date: | 20140811 |
| Manifest ID: | 012153128JJK |
| Trans EPA ID: | CAD982467821 |
| Trans Name: | SUN ENVIRONMENTAL ENGINEERING SERVICES INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD008364432 |
| Trans Name: | RHO-CHEM LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 135 - Unspecified aqueous solution |
| RCRA Code: | D011 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.126 |
| Waste Quantity: | 30 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

**CENTENNIAL HIGH SCHOOL CNUSD (Continued)** **S123817276**

Additional Info:

| | |
|---|---|
| Year: | 2017 |
| Gen EPA ID: | CAL000138361 |
| Shipment Date: | 20170518 |
| Creation Date: | 5/19/2018 18:30:13 |
| Receipt Date: | 20170519 |
| Manifest ID: | 016081089JJK |
| Trans EPA ID: | CAD982467821 |
| Trans Name: | SUN ENVIRONMENTAL ENGINEERING SERVICES INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD044429835 |
| Trans Name: | CLEAN HARBORS |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 551 - Laboratory waste chemicals 561 Detergent and soap |
| RCRA Code: | F002 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.02085 |
| Waste Quantity: | 5 |
| Quantity Unit: | G |
| Additional Code 1: | D022 |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| Shipment Date: | 20170518 |
| Creation Date: | 5/19/2018 18:30:13 |
| Receipt Date: | 20170519 |
| Manifest ID: | 016081089JJK |
| Trans EPA ID: | CAD982467821 |
| Trans Name: | SUN ENVIRONMENTAL ENGINEERING SERVICES INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD044429835 |
| Trans Name: | CLEAN HARBORS |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 551 - Laboratory waste chemicals 561 Detergent and soap |
| RCRA Code: | D007 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.01 |
| Waste Quantity: | 20 |
| Quantity Unit: | P |
| Additional Code 1: | D001 |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| Shipment Date: | 20170518 |
| Creation Date: | 5/19/2018 18:30:13 |
| Receipt Date: | 20170519 |

**CENTENNIAL HIGH SCHOOL CNUSD (Continued)** **S123817276**

| | |
|---|---|
| Manifest ID: | 016081089JJK |
| Trans EPA ID: | CAD982467821 |
| Trans Name: | SUN ENVIRONMENTAL ENGINEERING SERVICES INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD044429835 |
| Trans Name: | CLEAN HARBORS |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 551 - Laboratory waste chemicals 561 Detergent and soap |
| RCRA Code: | U188 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.01 |
| Waste Quantity: | 20 |
| Quantity Unit: | P |
| Additional Code 1: | U144 |
| Additional Code 2: | D008 |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20170518 |
| Creation Date: | 5/19/2018 18:30:13 |
| Receipt Date: | 20170519 |
| Manifest ID: | 016081089JJK |
| Trans EPA ID: | CAD982467821 |
| Trans Name: | SUN ENVIRONMENTAL ENGINEERING SERVICES INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD044429835 |
| Trans Name: | CLEAN HARBORS |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 551 - Laboratory waste chemicals 561 Detergent and soap |
| RCRA Code: | D007 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.01 |
| Waste Quantity: | 20 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2005 |
| Gen EPA ID: | CAL000138361 |
| | |
| Shipment Date: | 20050225 |
| Creation Date: | 6/2/2005 18:30:59 |
| Receipt Date: | 20050301 |
| Manifest ID: | 24215161 |
| Trans EPA ID: | CAD983649880 |
| Trans Name: | GENERAL ENVIRONMENTAL MGMT INC |

**CENTENNIAL HIGH SCHOOL CNUSD (Continued)** **S123817276**

| | |
|---|---|
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD980884183 |
| Trans Name: | GEM RANCHO CORDOVA LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 551 - Laboratory waste chemicals 561 Detergent and soap |
| RCRA Code: | D011 |
| Meth Code: | - Not reported |
| Quantity Tons: | 0.22935 |
| Waste Quantity: | 55 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 1999 |
| Gen EPA ID: | CAL000138361 |
| | |
| Shipment Date: | 19990712 |
| Creation Date: | 9/1/1999 0:00:00 |
| Receipt Date: | 19990716 |
| Manifest ID: | 99153643 |
| Trans EPA ID: | CAD983649880 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD008302903 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAD008302903 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 343 - Unspecified organic liquid mixture |
| RCRA Code: | D001 |
| Meth Code: | H01 - Transfer Station |
| Quantity Tons: | 0.025 |
| Waste Quantity: | 50 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 19990309 |
| Creation Date: | 5/17/1999 0:00:00 |
| Receipt Date: | 19990322 |
| Manifest ID: | 97468969 |
| Trans EPA ID: | CAD983649880 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | SCD987574647 |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | AZD049318009 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |

**CENTENNIAL HIGH SCHOOL CNUSD (Continued)** **S123817276**

| | |
|---|---|
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 331 - Off-specification, aged, or surplus organics |
| RCRA Code: | Not reported |
| Meth Code: | - Not reported |
| Quantity Tons: | 0.015 |
| Waste Quantity: | 30 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2012 |
| Gen EPA ID: | CAL000138361 |
| Shipment Date: | 20120802 |
| Creation Date: | 10/20/2012 22:15:09 |
| Receipt Date: | 20120803 |
| Manifest ID: | 009939843JJK |
| Trans EPA ID: | CAD982413262 |
| Trans Name: | EVERGREEN ENVIRONMENTAL SERVICES |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD981696420 |
| Trans Name: | EVERGREEN ENVIRONMENTAL SERVICES |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 134 - Aqueous solution with <10% total organic residues |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.0126 |
| Waste Quantity: | 3 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| Shipment Date: | 20120801 |
| Creation Date: | 10/10/2012 22:15:09 |
| Receipt Date: | 20120803 |
| Manifest ID: | 006433754JJK |
| Trans EPA ID: | CAD982467821 |
| Trans Name: | SUN ENVIRONMENTAL ENGINEERING SERVICES INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080013352 |
| Trans Name: | DEMENNO-KERDOON |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 291 - Latex waste |
| RCRA Code: | Not reported |
| Meth Code: | H039 - Other Recovery Of Reclamation For Reuse Including Acid |

**CENTENNIAL HIGH SCHOOL CNUSD (Continued)** **S123817276**

| | |
|---|---|
| | Regeneration, Organics Recovery Ect |
| Quantity Tons: | 0.8428 |
| Waste Quantity: | 1 |
| Quantity Unit: | Y |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20120801 |
| Creation Date: | 10/23/2012 22:15:09 |
| Receipt Date: | 20120803 |
| Manifest ID: | 006433793JJK |
| Trans EPA ID: | CAD982467821 |
| Trans Name: | SUN ENVIRONMENTAL ENGINEERING SERVICES INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD008364432 |
| Trans Name: | RHO CHEM LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 352 - Other organic solids |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.45 |
| Waste Quantity: | 900 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20120801 |
| Creation Date: | 10/23/2012 22:15:09 |
| Receipt Date: | 20120803 |
| Manifest ID: | 006433793JJK |
| Trans EPA ID: | CAD982467821 |
| Trans Name: | SUN ENVIRONMENTAL ENGINEERING SERVICES INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD008364432 |
| Trans Name: | RHO CHEM LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 541 - Photochemicals / photo processing waste |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.1251 |
| Waste Quantity: | 30 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |

**CENTENNIAL HIGH SCHOOL CNUSD (Continued)** **S123817276**

| | |
|---|---|
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20120801 |
| Creation Date: | 10/23/2012 22:15:09 |
| Receipt Date: | 20120803 |
| Manifest ID: | 006433793JJK |
| Trans EPA ID: | CAD982467821 |
| Trans Name: | SUN ENVIRONMENTAL ENGINEERING SERVICES INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD008364432 |
| Trans Name: | RHO CHEM LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 551 - Laboratory waste chemicals 561 Detergent and soap |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.0125 |
| Waste Quantity: | 25 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20120801 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 006433793JJK |
| Trans EPA ID: | CAD982467821 |
| Trans Name: | SUN ENVIRONMENTAL ENGINEERING SERVICES INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD008364432 |
| Trans Name: | RHO CHEM LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 551 - Laboratory waste chemicals 561 Detergent and soap |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | Not reported |
| Waste Quantity: | 5 |
| Quantity Unit: | Not reported |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20120801 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 006433793JJK |

**CENTENNIAL HIGH SCHOOL CNUSD (Continued)** **S123817276**

| | |
|---|---|
| Trans EPA ID: | CAD982467821 |
| Trans Name: | SUN ENVIRONMENTAL ENGINEERING SERVICES INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD008364432 |
| Trans Name: | RHO CHEM LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 551 - Laboratory waste chemicals 561 Detergent and soap |
| RCRA Code: | D002 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.02085 |
| Waste Quantity: | 5 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20120801 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 006433793JJK |
| Trans EPA ID: | CAD982467821 |
| Trans Name: | SUN ENVIRONMENTAL ENGINEERING SERVICES INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD008364432 |
| Trans Name: | RHO CHEM LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 551 - Laboratory waste chemicals 561 Detergent and soap |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.02085 |
| Waste Quantity: | 5 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20120801 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 006433793JJK |
| Trans EPA ID: | CAD982467821 |
| Trans Name: | SUN ENVIRONMENTAL ENGINEERING SERVICES INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD008364432 |
| Trans Name: | RHO CHEM LLC |
| TSDF Alt EPA ID: | Not reported |

**CENTENNIAL HIGH SCHOOL CNUSD (Continued)** **S123817276**

TSDF Alt Name: Not reported
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code: D002
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons: 0.02085
Waste Quantity: 5
Quantity Unit: G
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20120801
Creation Date: Not reported
Receipt Date: Not reported
Manifest ID: 006433793JJK
Trans EPA ID: CAD982467821
Trans Name: SUN ENVIRONMENTAL ENGINEERING SERVICES INC
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAD008364432
Trans Name: RHO CHEM LLC
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code: D001
Meth Code: H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons: 0.02085
Waste Quantity: 5
Quantity Unit: G
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:
Year: 2004
Gen EPA ID: CAL000138361

Shipment Date: 20040903
Creation Date: 12/28/2004 14:47:40
Receipt Date: 20040909
Manifest ID: 23746553
Trans EPA ID: CAD983649880
Trans Name: GENERAL ENVIRONMENTAL MANAGEMENT INC
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAD980884183
Trans Name: GEM RANCHO CORDOVA LLC
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code: D011
Meth Code: H01 - Transfer Station

**CENTENNIAL HIGH SCHOOL CNUSD (Continued)** **S123817276**

| | |
|---|---|
| Quantity Tons: | 0.10425 |
| Waste Quantity: | 25 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20040330 |
| Creation Date: | 10/1/2004 18:31:09 |
| Receipt Date: | 20040405 |
| Manifest ID: | 22916783 |
| Trans EPA ID: | CAD983649880 |
| Trans Name: | GENERAL ENVIRONMENTAL MANAGEMENT INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD008302903 |
| Trans Name: | ONYX ENVIRONMENTAL SERVICES LLC |
| TSDF Alt EPA ID: | CAD008302903 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 551 - Laboratory waste chemicals 561 Detergent and soap |
| RCRA Code: | D011 |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.1251 |
| Waste Quantity: | 30 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20040108 |
| Creation Date: | 8/13/2004 7:53:20 |
| Receipt Date: | 20040116 |
| Manifest ID: | 22916373 |
| Trans EPA ID: | CAD983649880 |
| Trans Name: | GENERAL ENVIRONMENTAL MANAGEMENT INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD008302903 |
| Trans Name: | ONYX ENVIRONMENTAL SERVICES LLC |
| TSDF Alt EPA ID: | CAD008302903 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 551 - Laboratory waste chemicals 561 Detergent and soap |
| RCRA Code: | D011 |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.1251 |
| Waste Quantity: | 30 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

**CENTENNIAL HIGH SCHOOL CNUSD (Continued)** **S123817276**

Additional Info:

| | |
|---|---|
| Year: | 2011 |
| Gen EPA ID: | CAL000138361 |
| Shipment Date: | 20111027 |
| Creation Date: | 12/20/2011 18:30:31 |
| Receipt Date: | 20111027 |
| Manifest ID: | 006433705JJK |
| Trans EPA ID: | CAD982467821 |
| Trans Name: | SUN ENVIRONMENTAL ENGINEERING SERVICES INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD008364432 |
| Trans Name: | RHO CHEM LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 352 - Other organic solids |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.175 |
| Waste Quantity: | 350 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| Shipment Date: | 20110908 |
| Creation Date: | 12/9/2011 18:30:13 |
| Receipt Date: | 20110908 |
| Manifest ID: | 006433691JJK |
| Trans EPA ID: | CAD982467821 |
| Trans Name: | SUN ENVIRONMENTAL ENGINEERING SERVICES INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080013352 |
| Trans Name: | DEMENNO-KERDOON |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 135 - Unspecified aqueous solution |
| RCRA Code: | Not reported |
| Meth Code: | H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect |
| Quantity Tons: | 0.231 |
| Waste Quantity: | 55 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| Shipment Date: | 20110726 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |

**CENTENNIAL HIGH SCHOOL CNUSD (Continued)** **S123817276**

| | |
|---|---|
| Manifest ID: | 006433637JJK |
| Trans EPA ID: | CAD982467821 |
| Trans Name: | SUN ENVIRONMENTAL ENGINEERING SERVICES INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080013352 |
| Trans Name: | DEMENNO-KERDOON |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 133 - Aqueous solution with 10% or more total organic residues |
| RCRA Code: | D002 |
| Meth Code: | H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect |
| Quantity Tons: | 0.68805 |
| Waste Quantity: | 165 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20110726 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 006433637JJK |
| Trans EPA ID: | CAD982467821 |
| Trans Name: | SUN ENVIRONMENTAL ENGINEERING SERVICES INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080013352 |
| Trans Name: | DEMENNO-KERDOON |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 343 - Unspecified organic liquid mixture |
| RCRA Code: | D001 |
| Meth Code: | H061 - Fuel Blending Prior To Energy Recovery At Another Site |
| Quantity Tons: | 0.8428 |
| Waste Quantity: | 1 |
| Quantity Unit: | Y |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20110726 |
| Creation Date: | 7/19/2012 22:00:08 |
| Receipt Date: | 20110727 |
| Manifest ID: | 006433637JJK |
| Trans EPA ID: | CAD982467821 |
| Trans Name: | SUN ENVIRONMENTAL ENGINEERING SERVICES INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080013352 |
| Trans Name: | DEMENNO-KERDOON |
| TSDF Alt EPA ID: | Not reported |

**CENTENNIAL HIGH SCHOOL CNUSD (Continued)** **S123817276**

| | |
|---|---|
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 133 - Aqueous solution with 10% or more total organic residues |
| RCRA Code: | Not reported |
| Meth Code: | H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect |
| Quantity Tons: | 0.22935 |
| Waste Quantity: | 55 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20110726 |
| Creation Date: | 7/19/2012 22:00:08 |
| Receipt Date: | 20110727 |
| Manifest ID: | 006433637JJK |
| Trans EPA ID: | CAD982467821 |
| Trans Name: | SUN ENVIRONMENTAL ENGINEERING SERVICES INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080013352 |
| Trans Name: | DEMENNO-KERDOON |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 291 - Latex waste |
| RCRA Code: | Not reported |
| Meth Code: | H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect |
| Quantity Tons: | 0.4587 |
| Waste Quantity: | 110 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20110726 |
| Creation Date: | 7/19/2012 22:00:08 |
| Receipt Date: | 20110727 |
| Manifest ID: | 006433637JJK |
| Trans EPA ID: | CAD982467821 |
| Trans Name: | SUN ENVIRONMENTAL ENGINEERING SERVICES INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080013352 |
| Trans Name: | DEMENNO-KERDOON |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 214 - Unspecified solvent mixture |
| RCRA Code: | D001 |
| Meth Code: | H061 - Fuel Blending Prior To Energy Recovery At Another Site |
| Quantity Tons: | 0.702 |
| Waste Quantity: | 195 |
| Quantity Unit: | G |

**CENTENNIAL HIGH SCHOOL CNUSD (Continued)** **S123817276**

| | |
|---|---|
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20110726 |
| Creation Date: | 9/1/2011 18:31:53 |
| Receipt Date: | 20110728 |
| Manifest ID: | 006433658JJK |
| Trans EPA ID: | CAD982467821 |
| Trans Name: | SUN ENVIRONMENTAL ENGINEERING SERVICES INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD008364432 |
| Trans Name: | PHILIP ENVIRONMENTAL RHOCHEM |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 213 - Hydrocarbon solvents (benzene, hexane, Stoddard, etc. |
| RCRA Code: | D001 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.1251 |
| Waste Quantity: | 30 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20110726 |
| Creation Date: | 9/1/2011 18:31:53 |
| Receipt Date: | 20110728 |
| Manifest ID: | 006433658JJK |
| Trans EPA ID: | CAD982467821 |
| Trans Name: | SUN ENVIRONMENTAL ENGINEERING SERVICES INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD008364432 |
| Trans Name: | PHILIP ENVIRONMENTAL RHOCHEM |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 135 - Unspecified aqueous solution |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.021 |
| Waste Quantity: | 5 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20110726 |

**CENTENNIAL HIGH SCHOOL CNUSD (Continued)** **S123817276**

| | |
|---|---|
| Creation Date: | 9/1/2011 18:31:53 |
| Receipt Date: | 20110728 |
| Manifest ID: | 006433658JJK |
| Trans EPA ID: | CAD982467821 |
| Trans Name: | SUN ENVIRONMENTAL ENGINEERING SERVICES INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD008364432 |
| Trans Name: | PHILIP ENVIRONMENTAL RHOCHEM |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 551 - Laboratory waste chemicals 561 Detergent and soap |
| RCRA Code: | D002 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.02085 |
| Waste Quantity: | 5 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2013 |
| Gen EPA ID: | CAL000138361 |
| | |
| Shipment Date: | 20130816 |
| Creation Date: | 10/17/2013 22:15:26 |
| Receipt Date: | 20130819 |
| Manifest ID: | 006433935JJK |
| Trans EPA ID: | CAD982467821 |
| Trans Name: | SUN ENVIRONMENTAL ENGINEERING SERVICES INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD008364432 |
| Trans Name: | RHO CHEM LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 352 - Other organic solids |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.25 |
| Waste Quantity: | 500 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20130816 |
| Creation Date: | 10/17/2013 22:15:26 |
| Receipt Date: | 20130819 |
| Manifest ID: | 006433935JJK |

**CENTENNIAL HIGH SCHOOL CNUSD (Continued)** **S123817276**

| | |
|---|---|
| Trans EPA ID: | CAD982467821 |
| Trans Name: | SUN ENVIRONMENTAL ENGINEERING SERVICES INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD008364432 |
| Trans Name: | RHO CHEM LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 135 - Unspecified aqueous solution |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.126 |
| Waste Quantity: | 30 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20130816 |
| Creation Date: | 10/17/2013 22:15:26 |
| Receipt Date: | 20130819 |
| Manifest ID: | 006433935JJK |
| Trans EPA ID: | CAD982467821 |
| Trans Name: | SUN ENVIRONMENTAL ENGINEERING SERVICES INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD008364432 |
| Trans Name: | RHO CHEM LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 213 - Hydrocarbon solvents (benzene, hexane, Stoddard, etc. |
| RCRA Code: | D001 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.22935 |
| Waste Quantity: | 55 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2007 |
| Gen EPA ID: | CAL000138361 |

| | |
|---|---|
| Shipment Date: | 20070413 |
| Creation Date: | 8/23/2007 18:30:47 |
| Receipt Date: | 20070420 |
| Manifest ID: | 000207051GBF |
| Trans EPA ID: | CAD983649880 |
| Trans Name: | GENERAL ENVIRONMENTAL MGMT INC |
| Trans 2 EPA ID: | UTR000007708 |

**CENTENNIAL HIGH SCHOOL CNUSD (Continued)** **S123817276**

| | |
|---|---|
| Trans 2 Name: | SLT EXPRESSWAY |
| TSDF EPA ID: | CAD980884183 |
| Trans Name: | GEM RANCHO CORDOVA LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 551 - Laboratory waste chemicals 561 Detergent and soap |
| RCRA Code: | D011 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.1251 |
| Waste Quantity: | 30 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2001 |
| Gen EPA ID: | CAL000138361 |
| Shipment Date: | 20010802 |
| Creation Date: | 10/23/2001 0:00:00 |
| Receipt Date: | 20010809 |
| Manifest ID: | 21182278 |
| Trans EPA ID: | CAD983649880 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD028409019 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | - Not reported |
| RCRA Code: | Not reported |
| Meth Code: | H01 - Transfer Station |
| Quantity Tons: | 0 |
| Waste Quantity: | 0 |
| Quantity Unit: | Not reported |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| Shipment Date: | 20010802 |
| Creation Date: | 10/23/2001 0:00:00 |
| Receipt Date: | 20010809 |
| Manifest ID: | 21182278 |
| Trans EPA ID: | CAD983649880 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD028409019 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |

**CENTENNIAL HIGH SCHOOL CNUSD (Continued)** **S123817276**

| | |
|---|---|
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 541 - Photochemicals / photo processing waste |
| RCRA Code: | D011 |
| Meth Code: | - Not reported |
| Quantity Tons: | 0.1251 |
| Waste Quantity: | 30 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20010802 |
| Creation Date: | 10/23/2001 0:00:00 |
| Receipt Date: | 20010809 |
| Manifest ID: | 21182278 |
| Trans EPA ID: | CAD983649880 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD028409019 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 541 - Photochemicals / photo processing waste |
| RCRA Code: | D002 |
| Meth Code: | H01 - Transfer Station |
| Quantity Tons: | 0.01 |
| Waste Quantity: | 20 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

HWTS:

| | |
|---|---|
| Name: | CENTENNIAL HIGH SCHOOL CNUSD |
| Address: | 1820 RIMPAU AVE |
| Address 2: | Not reported |
| City,State,Zip: | CORONA, CA 92881 |
| EPA ID: | CAL000138361 |
| Inactive Date: | Not reported |
| Create Date: | 07/14/1995 |
| Last Act Date: | Not reported |
| Mailing Name: | Not reported |
| Mailing Address: | 2820 CLARK AVE |
| Mailing Address 2: | Not reported |
| Mailing City,State,Zip: | NORCO, CA 928600000 |
| Owner Name: | CORONA NORCO UNIFIED SCH DIST |
| Owner Address: | 2820 CLARK AVE |
| Owner Address 2: | Not reported |
| Owner City,State,Zip: | NORCO, CA 928601903 |
| Contact Name: | ART BALTIERRA |
| Contact Address: | 2820 CLARK AVE |
| Contact Address 2: | Not reported |

**CENTENNIAL HIGH SCHOOL CNUSD (Continued)** **S123817276**

City,State,Zip: NORCO, CA 92860
Facility Status: Active
Facility Type: PERMANENT
Category: STATE
Latitude: 33.85593
Longitude: -117.54471

NAICS:
EPA ID: CAL000138361
Create Date: 2002-03-14 16:36:28.000
NAICS Code: 61111
NAICS Description: Elementary and Secondary Schools
Issued EPA ID Date: 1995-07-14 00:00:00
Inactive Date: Not reported
Facility Name: CENTENNIAL HIGH SCHOOL CNUSD
Facility Address: 1820 RIMPAU AVE
Facility Address 2: Not reported
Facility City: CORONA
Facility County: Not reported
Facility State: CA
Facility Zip: 928813228

---

**A4** **VERIZON WIRELESS: CENTENNIAL HS** **FINDS** **1016422813**
**Target** **1820 RIMPAU AVENUE** **N/A**
**Property** **CORONA, CA 92879**

**Site 4 of 10 in cluster A**

**Actual:** **795 ft.**

FINDS:
Registry ID: 110055709719

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

---

**A5** **CENTENNIAL HIGH SCHOOL CNUSD** **RCRA NonGen / NLR** **1024793421**
**Target** **1820 RIMPAU AVE** **CAL000138361**
**Property** **CORONA, CA 92881**

**Site 5 of 10 in cluster A**

**Actual:** **795 ft.**

RCRA NonGen / NLR:
Date Form Received by Agency: 19950714
Handler Name: CENTENNIAL HIGH SCHOOL CNUSD
Handler Address: 1820 RIMPAU AVE
Handler City,State,Zip: CORONA, CA 92881-3228
EPA ID: CAL000138361
Contact Name: TERRY LONG
Contact Address: 2820 CLARK AVE
Contact City,State,Zip: NORCO, CA 92860
Contact Telephone: 951-736-3316
Contact Fax: 951-736-7199
Contact Email: TMLONG@CNUSD.K12.CA.US

**CENTENNIAL HIGH SCHOOL CNUSD (Continued)** **1024793421**

| | |
|---|---|
| Contact Title: | Not reported |
| EPA Region: | 09 |
| Land Type: | Not reported |
| Federal Waste Generator Description: | Not a generator, verified |
| Non-Notifier: | Not reported |
| Biennial Report Cycle: | Not reported |
| Accessibility: | Not reported |
| Active Site Indicator: | Handler Activities |
| State District Owner: | Not reported |
| State District: | Not reported |
| Mailing Address: | 2820 CLARK AVE |
| Mailing City,State,Zip: | NORCO, CA 92860-1903 |
| Owner Name: | CORONA NORCO UNIFIED SCH DIST |
| Owner Type: | Other |
| Operator Name: | TERRY LONG |
| Operator Type: | Other |
| Short-Term Generator Activity: | No |
| Importer Activity: | No |
| Mixed Waste Generator: | No |
| Transporter Activity: | No |
| Transfer Facility Activity: | No |
| Recycler Activity with Storage: | No |
| Small Quantity On-Site Burner Exemption: | No |
| Smelting Melting and Refining Furnace Exemption: | No |
| Underground Injection Control: | No |
| Off-Site Waste Receipt: | No |
| Universal Waste Indicator: | Yes |
| Universal Waste Destination Facility: | Yes |
| Federal Universal Waste: | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site State-Reg Handler: | --- |
| Federal Facility Indicator: | Not reported |
| Hazardous Secondary Material Indicator: | N |
| Sub-Part K Indicator: | Not reported |
| Commercial TSD Indicator: | No |
| Treatment Storage and Disposal Type: | Not reported |
| 2018 GPRA Permit Baseline: | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | Not on the Baseline |
| Permit Renewals Workload Universe: | Not reported |
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |

**CENTENNIAL HIGH SCHOOL CNUSD (Continued)** **1024793421**

| | |
|---|---|
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 20180905 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | No |
| Manifest Broker: | No |
| Sub-Part P Indicator: | No |

Handler - Owner Operator:

| | |
|---|---|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | CORONA NORCO UNIFIED SCH DIST |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 2820 CLARK AVE |
| Owner/Operator City,State,Zip: | NORCO, CA 92860-1903 |
| Owner/Operator Telephone: | 951-736-3316 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

| | |
|---|---|
| Owner/Operator Indicator: | Operator |
| Owner/Operator Name: | TERRY LONG |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 2820 CLARK AVE |
| Owner/Operator City,State,Zip: | NORCO, CA 92860 |
| Owner/Operator Telephone: | 951-736-3316 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

Historic Generators:

| | |
|---|---|
| Receive Date: | 19950714 |
| Handler Name: | CENTENNIAL HIGH SCHOOL CNUSD |
| Federal Waste Generator Description: | Not a generator, verified |
| State District Owner: | Not reported |
| Large Quantity Handler of Universal Waste: | No |
| Recognized Trader Importer: | No |
| Recognized Trader Exporter: | No |
| Spent Lead Acid Battery Importer: | No |
| Spent Lead Acid Battery Exporter: | No |
| Current Record: | Yes |
| Non Storage Recycler Activity: | Not reported |
| Electronic Manifest Broker: | Not reported |

**CENTENNIAL HIGH SCHOOL CNUSD (Continued)** **1024793421**

List of NAICS Codes and Descriptions:
NAICS Code: 61111
NAICS Description: ELEMENTARY AND SECONDARY SCHOOLS

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

---

**A6** **CENTENNIAL HIGH SCHOOL** **FINDS** **1023368102**
**Target** **1820 RIMPAU AVE** **N/A**
**Property** **CORONA, CA 92879**

**Site 6 of 10 in cluster A**

**Actual:** **795 ft.**

FINDS:
Registry ID: 110066657772

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

---

**A7** **CENTENNIAL HIGH SCHOOL CNUSD** **FINDS** **1024660175**
**Target** **1820 RIMPAU AVE** **ECHO** **N/A**
**Property** **CORONA, CA 92881**

**Site 7 of 10 in cluster A**

**Actual:** **795 ft.**

FINDS:
Registry ID: 110070448569

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1024660175
Registry ID: 110070448569
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110070448569
Name: CENTENNIAL HIGH SCHOOL CNUSD
Address: 1820 RIMPAU AVE
City,State,Zip: CORONA, CA 92881

**A8** **CENTENNIAL HIGH SCH STADIUM UPGRADE** **CIWQS** **S121628036**
**Target** **1820 RIMPAU AVE** **N/A**
**Property** **CORONA, CA 91719**

**Site 8 of 10 in cluster A**

**Actual:** **795 ft.**

CIWQS:

| | |
|---|---|
| Name: | CENTENNIAL HIGH SCH STADIUM UPGRADE |
| Address: | 1820 RIMPAU AVE |
| City,State,Zip: | CORONA, CA 91719 |
| Agency: | Corona Norco USD |
| Agency Address: | 2820 Clark Ave, Corona, CA 92860 |
| Place/Project Type: | Construction - Other |
| SIC/NAICS: | Not reported |
| Region: | 8 |
| Program: | CONSTW |
| Regulatory Measure Status: | Terminated |
| Regulatory Measure Type: | Storm water construction |
| Order Number: | 99-08DW |
| WDID: | 8 33C325728 |
| NPDES Number: | CAS000002 |
| Adoption Date: | Not reported |
| Effective Date: | 02/02/2004 |
| Termination Date: | 11/15/2005 |
| Expiration/Review Date: | Not reported |
| Design Flow: | Not reported |
| Major/Minor: | Not reported |
| Complexity: | Not reported |
| TTWQ: | Not reported |
| Enforcement Actions within 5 years: | 0 |
| Violations within 5 years: | 0 |
| Latitude: | Not reported |
| Longitude: | Not reported |

---

**A9** **CENTENNIAL HIGH SCHOOL INTERIM HOUSING** **CIWQS** **S121628037**
**Target** **1820 RIMPAU AVE** **N/A**
**Property** **CORONA, CA**

**Site 9 of 10 in cluster A**

**Actual:** **795 ft.**

CIWQS:

| | |
|---|---|
| Name: | CENTENNIAL HIGH SCHOOL INTERIM HOUSING |
| Address: | 1820 RIMPAU AVE |
| City,State,Zip: | CORONA, CA |
| Agency: | Corona Norco Unified School District |
| Agency Address: | 2820 Clark Aveune, Norco, CA 92860 |
| Place/Project Type: | Construction |
| SIC/NAICS: | Not reported |
| Region: | 8 |
| Program: | CONSTW |
| Regulatory Measure Status: | Terminated |
| Regulatory Measure Type: | Storm water construction |
| Order Number: | 2009-0009-DWQ |
| WDID: | 8 33C352259 |
| NPDES Number: | CAS000002 |
| Adoption Date: | Not reported |
| Effective Date: | 06/17/2008 |
| Termination Date: | 04/04/2011 |
| Expiration/Review Date: | Not reported |
| Design Flow: | Not reported |

**CENTENNIAL HIGH SCHOOL INTERIM HOUSING (Continued)** **S121628037**

| | |
|---|---|
| Major/Minor: | Not reported |
| Complexity: | Not reported |
| TTWQ: | Not reported |
| Enforcement Actions within 5 years: | 0 |
| Violations within 5 years: | 0 |
| Latitude: | 33.859167 |
| Longitude: | -117.548333 |

---

**A10** **CENTENNIAL HIGH SCHOOL** **ENVIROSTOR** **S108201137**
**Target** **1820 RIMPAU AVENUE** **SCH** **N/A**
**Property** **CORONA, CA 92881** **CIWQS**

**Site 10 of 10 in cluster A**

**Actual:**
**795 ft.**

ENVIROSTOR:

| | |
|---|---|
| Name: | CENTENNIAL HIGH SCHOOL EXPANSION |
| Address: | 1820 RIMPAU AVENUE |
| City,State,Zip: | CORONA, CA 92881-3228 |
| Facility ID: | 33820003 |
| Status: | No Further Action |
| Status Date: | 04/23/2001 |
| Site Code: | 404152 |
| Site Type: | School Investigation |
| Site Type Detailed: | School |
| Acres: | 1 |
| NPL: | NO |
| Regulatory Agencies: | SMBRP |
| Lead Agency: | SMBRP |
| Program Manager: | Not reported |
| Supervisor: | Charles Ridenour |
| Division Branch: | Southern California Schools & Brownfields Outreach |
| Assembly: | 60 |
| Senate: | 31 |
| Special Program: | Not reported |
| Restricted Use: | NO |
| Site Mgmt Req: | NONE SPECIFIED |
| Funding: | School District |
| Latitude: | 33.85278 |
| Longitude: | -117.5448 |
| APN: | NONE SPECIFIED |
| Past Use: | * EDUCATIONAL SERVICES |
| Potential COC: | Arsenic DDD DDE DDT Lead |
| Confirmed COC: | NONE SPECIFIED |
| Potential Description: | SOIL |
| Alias Name: | CENTENNIAL HIGH SCHOOL ADDITION |
| Alias Type: | Alternate Name |
| Alias Name: | CORONA-NORCO UNIFIED SCHOOL DISTRICT |
| Alias Type: | Alternate Name |
| Alias Name: | CORONA/NORCO USD-CENTENNIAL HS SITE |
| Alias Type: | Alternate Name |
| Alias Name: | 404152 |
| Alias Type: | Project Code (Site Code) |
| Alias Name: | 33820003 |
| Alias Type: | Envirostor ID Number |

Completed Info:

| | |
|---|---|
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |

**CENTENNIAL HIGH SCHOOL (Continued)** **S108201137**

Completed Document Type: * Public Participation
Completed Date: 04/16/2001
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 10/02/2000
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 04/24/2001
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 10/01/2000
Comments: Background report; no response/approval needed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 04/24/2001
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

Name: CENTENNIAL HIGH SCHOOL
Address: 1820 RIMPAU AVENUE
City,State,Zip: CORONA, CA 92881
Facility ID: 60000843
Status: No Further Action
Status Date: 06/02/2009
Site Code: 404770
Site Type: School Investigation
Site Type Detailed: School
Acres: 6.3
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Aslam Shareef
Supervisor: Shahir Haddad
Division Branch: Southern California Schools & Brownfields Outreach
Assembly: 60
Senate: 31
Special Program: Not reported

**CENTENNIAL HIGH SCHOOL (Continued)** **S108201137**

Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: School District
Latitude: 33.85856
Longitude: -117.5454
APN: NONE SPECIFIED
Past Use: AGRICULTURAL - LIVESTOCK, AGRICULTURAL - ORCHARD, AGRICULTURAL - ROW CROPS
Potential COC: Arsenic Chlordane DDD DDE DDT Lead
Confirmed COC: 30001-NO 30004-NO 30013-NO 30006-NO 30007-NO 30008-NO
Potential Description: NMA
Alias Name: 404770
Alias Type: Project Code (Site Code)
Alias Name: 60000843
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 03/19/2009
Comments: DTSC issued Further Action determination based on a PEA Equivalent report

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 04/11/2008
Comments: Phase I Site Assessment Determination letter

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 06/02/2009
Comments: DTSC prepared project close out Cost Recovery Unit Memorandum.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 08/18/2008
Comments: Agreement sent (FedEx) to District.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 06/02/2009
Comments: DTSC approved the SSI report with a No Further Action determination

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

**CENTENNIAL HIGH SCHOOL (Continued)** **S108201137**

SCH:

| | |
|---|---|
| Name: | CENTENNIAL HIGH SCHOOL EXPANSION |
| Address: | 1820 RIMPAU AVENUE |
| City,State,Zip: | CORONA, CA 92881-3228 |
| Facility ID: | 33820003 |
| Site Type: | School Investigation |
| Site Type Detail: | School |
| Site Mgmt. Req.: | NONE SPECIFIED |
| Acres: | 1 |
| National Priorities List: | NO |
| Cleanup Oversight Agencies: | SMBRP |
| Lead Agency: | SMBRP |
| Lead Agency Description: | DTSC - Site Cleanup Program |
| Project Manager: | Not reported |
| Supervisor: | Charles Ridenour |
| Division Branch: | Southern California Schools & Brownfields Outreach |
| Site Code: | 404152 |
| Assembly: | 60 |
| Senate: | 31 |
| Special Program Status: | Not reported |
| Status: | No Further Action |
| Status Date: | 04/23/2001 |
| Restricted Use: | NO |
| Funding: | School District |
| Latitude: | 33.85278 |
| Longitude: | -117.5448 |
| APN: | NONE SPECIFIED |
| Past Use: | * EDUCATIONAL SERVICES |
| Potential COC: | Arsenic, DDD, DDE, DDT, Lead |
| Confirmed COC: | NONE SPECIFIED |
| Potential Description: | SOIL |
| Alias Name: | CENTENNIAL HIGH SCHOOL ADDITION |
| Alias Type: | Alternate Name |
| Alias Name: | CORONA-NORCO UNIFIED SCHOOL DISTRICT |
| Alias Type: | Alternate Name |
| Alias Name: | CORONA/NORCO USD-CENTENNIAL HS SITE |
| Alias Type: | Alternate Name |
| Alias Name: | 404152 |
| Alias Type: | Project Code (Site Code) |
| Alias Name: | 33820003 |
| Alias Type: | Envirostor ID Number |

Completed Info:

| | |
|---|---|
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | * Public Participation |
| Completed Date: | 04/16/2001 |
| Comments: | Not reported |
| | |
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Environmental Oversight Agreement |
| Completed Date: | 10/02/2000 |
| Comments: | Not reported |
| | |
| Completed Area Name: | PROJECT WIDE |

**CENTENNIAL HIGH SCHOOL (Continued)** **S108201137**

| | |
|---|---|
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Preliminary Endangerment Assessment Report |
| Completed Date: | 04/24/2001 |
| Comments: | Not reported |
| | |
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Other Report |
| Completed Date: | 10/01/2000 |
| Comments: | Background report; no response/approval needed. |
| | |
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Cost Recovery Closeout Memo |
| Completed Date: | 04/24/2001 |
| Comments: | Not reported |
| | |
| Future Area Name: | Not reported |
| Future Sub Area Name: | Not reported |
| Future Document Type: | Not reported |
| Future Due Date: | Not reported |
| Schedule Area Name: | Not reported |
| Schedule Sub Area Name: | Not reported |
| Schedule Document Type: | Not reported |
| Schedule Due Date: | Not reported |
| Schedule Revised Date: | Not reported |
| | |
| Name: | CENTENNIAL HIGH SCHOOL |
| Address: | 1820 RIMPAU AVENUE |
| City,State,Zip: | CORONA, CA 92881 |
| Facility ID: | 60000843 |
| Site Type: | School Investigation |
| Site Type Detail: | School |
| Site Mgmt. Req.: | NONE SPECIFIED |
| Acres: | 6.3 |
| National Priorities List: | NO |
| Cleanup Oversight Agencies: | SMBRP |
| Lead Agency: | SMBRP |
| Lead Agency Description: | DTSC - Site Cleanup Program |
| Project Manager: | Aslam Shareef |
| Supervisor: | Shahir Haddad |
| Division Branch: | Southern California Schools & Brownfields Outreach |
| Site Code: | 404770 |
| Assembly: | 60 |
| Senate: | 31 |
| Special Program Status: | Not reported |
| Status: | No Further Action |
| Status Date: | 06/02/2009 |
| Restricted Use: | NO |
| Funding: | School District |
| Latitude: | 33.85856 |
| Longitude: | -117.5454 |
| APN: | NONE SPECIFIED |
| Past Use: | AGRICULTURAL - LIVESTOCK, AGRICULTURAL - ORCHARD, AGRICULTURAL - ROW CROPS |
| Potential COC: | Arsenic, Chlordane, DDD, DDE, DDT, Lead |

**CENTENNIAL HIGH SCHOOL (Continued)** **S108201137**

Confirmed COC: 30001-NO, 30004-NO, 30013-NO, 30006-NO, 30007-NO, 30008-NO
Potential Description: NMA
Alias Name: 404770
Alias Type: Project Code (Site Code)
Alias Name: 60000843
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 03/19/2009
Comments: DTSC issued Further Action determination based on a PEA Equivalent report

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 04/11/2008
Comments: Phase I Site Assessment Determination letter

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 06/02/2009
Comments: DTSC prepared project close out Cost Recovery Unit Memorandum.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 08/18/2008
Comments: Agreement sent (FedEx) to District.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 06/02/2009
Comments: DTSC approved the SSI report with a No Further Action determination

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

CIWQS:
Name: CENTENNIAL HIGH SCHOOL PH II THEATRE BLDG
Address: 1820 RIMPAU AVENUE
City,State,Zip: CORONA, CA 92881
Agency: Corona Norco Unified School District
Agency Address: 2820 Clark Aveune, Norco, CA 92860
Place/Project Type: Construction - Reconstruction
SIC/NAICS: Not reported

**CENTENNIAL HIGH SCHOOL (Continued)** **S108201137**

| | |
|---|---|
| Region: | 8 |
| Program: | CONSTW |
| Regulatory Measure Status: | Terminated |
| Regulatory Measure Type: | Storm water construction |
| Order Number: | 2009-0009-DWQ |
| WDID: | 8 33C361300 |
| NPDES Number: | CAS000002 |
| Adoption Date: | Not reported |
| Effective Date: | 06/24/2011 |
| Termination Date: | 05/29/2013 |
| Expiration/Review Date: | Not reported |
| Design Flow: | Not reported |
| Major/Minor: | Not reported |
| Complexity: | Not reported |
| TTWQ: | Not reported |
| Enforcement Actions within 5 years: | 0 |
| Violations within 5 years: | 0 |
| Latitude: | 33.85856 |
| Longitude: | -117.54542 |

---

**B11** **BL BEALER INC** **RCRA-SQG 1001967416**
**ENE** **1100 OLYMPIC AVE NO 105** **FINDS CAR000068767**
**< 1/8** **CORONA, CA 92881** **ECHO**
**0.046 mi.**
**244 ft.** **Site 1 of 4 in cluster B**

**Relative:** **Lower**
**Actual:** **764 ft.**

RCRA-SQG:

| | | |
|---|---|---|
| Date Form Received by Agency: | | 20000324 |
| Handler Name: | B L BEALER | |
| Handler Address: | | 1100 OLYMPIC AVE NO 105 |
| Handler City,State,Zip: | | CORONA, CA 92879 |
| EPA ID: | | CAR000068767 |
| Contact Name: | | DENNIS BEALER |
| Contact Address: | | 1100 OLYMPIC AVE NO 105 |
| Contact City,State,Zip: | | CORONA, CA 91719 |
| Contact Telephone: | | 909-737-1234 |
| Contact Fax: | | Not reported |
| Contact Email: | | Not reported |
| Contact Title: | | Not reported |
| EPA Region: | | 09 |
| Land Type: | | Private |
| Federal Waste Generator Description: | | Small Quantity Generator |
| Non-Notifier: | | Not reported |
| Biennial Report Cycle: | | Not reported |
| Accessibility: | | Not reported |
| Active Site Indicator: | | Handler Activities |
| State District Owner: | | Not reported |
| State District: | | Not reported |
| Mailing Address: | | 1100 OLYMPIC AVE NO 105 |
| Mailing City,State,Zip: | | CORONA, CA 91719 |
| Owner Name: | | B L BEALER |
| Owner Type: | | Private |
| Operator Name: | | Not reported |
| Operator Type: | | Not reported |
| Short-Term Generator Activity: | | No |
| Importer Activity: | | No |
| Mixed Waste Generator: | | No |
| Transporter Activity: | | No |

**BL BEALER INC (Continued)** **1001967416**

| | |
|---|---|
| Transfer Facility Activity: | No |
| Recycler Activity with Storage: | No |
| Small Quantity On-Site Burner Exemption: | No |
| Smelting Melting and Refining Furnace Exemption: | No |
| Underground Injection Control: | No |
| Off-Site Waste Receipt: | No |
| Universal Waste Indicator: | No |
| Universal Waste Destination Facility: | No |
| Federal Universal Waste: | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site State-Reg Handler: | --- |
| Federal Facility Indicator: | Not reported |
| Hazardous Secondary Material Indicator: | NN |
| Sub-Part K Indicator: | Not reported |
| Commercial TSD Indicator: | No |
| Treatment Storage and Disposal Type: | Not reported |
| 2018 GPRA Permit Baseline: | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | Not on the Baseline |
| Permit Renewals Workload Universe: | Not reported |
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 20021007 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | Not reported |
| Manifest Broker: | Not reported |
| Sub-Part P Indicator: | No |

Hazardous Waste Summary:

| | |
|---|---|
| Waste Code: | D000 |
| Waste Description: | Not Defined |

**BL BEALER INC (Continued)** **1001967416**

Waste Code: D001
Waste Description: IGNITABLE WASTE

Waste Code: D018
Waste Description: BENZENE

Waste Code: D039
Waste Description: TETRACHLOROETHYLENE

Waste Code: D040
Waste Description: TRICHLORETHYLENE

Handler - Owner Operator:
Owner/Operator Indicator: Owner
Owner/Operator Name: B L BEALER
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 1100 OLYMPIC AVE NO 105
Owner/Operator City,State,Zip: CORONA, CA 91719
Owner/Operator Telephone: 909-737-1234
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20000324
Handler Name: B L BEALER
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

FINDS:
Registry ID: 110008288272

Click Here for FRS Facility Detail Report:

**BL BEALER INC (Continued)** **1001967416**

Environmental Interest/Information System:
California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

| | |
|---|---|
| Envid: | 1001967416 |
| Registry ID: | 110008288272 |
| DFR URL: | http://echo.epa.gov/detailed-facility-report?fid=110008288272 |
| Name: | B L BEALER |
| Address: | 1100 OLYMPIC AVE NO 105 |
| City,State,Zip: | CORONA, CA 92881 |

---

**B12** **BL BEALER INC** **RCRA NonGen / NLR** **1026825383**
**ENE** **1100 OLYMPIC DR STE 105** **CAL000189814**
**< 1/8** **CORONA, CA 92881**
**0.046 mi.**
**244 ft.** **Site 2 of 4 in cluster B**

**Relative:** **Lower**
**Actual:** **764 ft.**

RCRA NonGen / NLR:

| | | |
|---|---|---|
| Date Form Received by Agency: | | 20210409 |
| Handler Name: | BL BEALER INC | |
| Handler Address: | | 1100 OLYMPIC DR STE 105 |
| Handler City,State,Zip: | | CORONA, CA 92881 |
| EPA ID: | | CAL000189814 |
| Contact Name: | | DAWN PYATT |
| Contact Address: | | OLYMPIC DR STE 105 |
| Contact City,State,Zip: | | CORONA, CA 92881 |
| Contact Telephone: | | 951-737-7108 |
| Contact Fax: | | Not reported |
| Contact Email: | | RENE@BLBEALER.COM |
| Contact Title: | | Not reported |
| EPA Region: | | 09 |
| Land Type: | | Other |
| Federal Waste Generator Description: | | Not a generator, verified |
| Non-Notifier: | | Not reported |
| Biennial Report Cycle: | | Not reported |
| Accessibility: | | Not reported |
| Active Site Indicator: | | Not reported |
| State District Owner: | | Not reported |
| State District: | | Not reported |
| Mailing Address: | | OLYMPIC DR STE 105 |
| Mailing City,State,Zip: | | CORONA, CA 92881 |
| Owner Name: | | Not reported |
| Owner Type: | | Not reported |
| Operator Name: | | BL BEALER INC |
| Operator Type: | | Other |
| Short-Term Generator Activity: | | No |

**BL BEALER INC (Continued)** **1026825383**

| | |
|---|---|
| Importer Activity: | No |
| Mixed Waste Generator: | No |
| Transporter Activity: | No |
| Transfer Facility Activity: | No |
| Recycler Activity with Storage: | No |
| Small Quantity On-Site Burner Exemption: | No |
| Smelting Melting and Refining Furnace Exemption: | No |
| Underground Injection Control: | No |
| Off-Site Waste Receipt: | No |
| Universal Waste Indicator: | No |
| Universal Waste Destination Facility: | No |
| Federal Universal Waste: | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site State-Reg Handler: | --- |
| Federal Facility Indicator: | Not reported |
| Hazardous Secondary Material Indicator: | N |
| Sub-Part K Indicator: | Not reported |
| Commercial TSD Indicator: | No |
| Treatment Storage and Disposal Type: | Not reported |
| 2018 GPRA Permit Baseline: | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | Not on the Baseline |
| Permit Renewals Workload Universe: | Not reported |
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 20210409 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | No |
| Manifest Broker: | No |
| Sub-Part P Indicator: | No |

**BL BEALER INC (Continued)** **1026825383**

Handler - Owner Operator:
Owner/Operator Indicator: Operator
Owner/Operator Name: BL BEALER INC
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 1475 DETROIT ST
Owner/Operator City,State,Zip: NORCO, CA 92887
Owner/Operator Telephone: 951-278-2726
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20210409
Handler Name: BL BEALER INC
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

List of NAICS Codes and Descriptions:
NAICS Code: 333517
NAICS Description: MACHINE TOOL MANUFACTURING

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

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**C13** **A FAMILY DENTAL** **RCRA NonGen / NLR** **1024846750**
**WNW** **854 MAGNOLIA AVE STE D** **CAL000401119**
**< 1/8** **CORONA, CA 92879**
**0.049 mi.**
**260 ft.** **Site 1 of 4 in cluster C**

**Relative:** **Lower**
**Actual:** **794 ft.**

RCRA NonGen / NLR:
Date Form Received by Agency: 20141007
Handler Name: A FAMILY DENTAL
Handler Address: 854 MAGNOLIA AVE STE D
Handler City,State,Zip: CORONA, CA 92879
EPA ID: CAL000401119
Contact Name: SUHAIL BEGUWALA
Contact Address: 854 MAGNOLIA AVE STE D
Contact City,State,Zip: CORONA, CA 92879
Contact Telephone: 949-285-9495
Contact Fax: 951-736-0461

**A FAMILY DENTAL (Continued)** **1024846750**

| | |
|---|---|
| Contact Email: | AFAMILYDENTAL@GMAIL.COM |
| Contact Title: | Not reported |
| EPA Region: | 09 |
| Land Type: | Not reported |
| Federal Waste Generator Description: | Not a generator, verified |
| Non-Notifier: | Not reported |
| Biennial Report Cycle: | Not reported |
| Accessibility: | Not reported |
| Active Site Indicator: | Handler Activities |
| State District Owner: | Not reported |
| State District: | Not reported |
| Mailing Address: | 854 MAGNOLIA AVE STE D |
| Mailing City,State,Zip: | CORONA, CA 92879 |
| Owner Name: | SUHAIL BEGUWALA |
| Owner Type: | Other |
| Operator Name: | SUHAIL BEGUWALA |
| Operator Type: | Other |
| Short-Term Generator Activity: | No |
| Importer Activity: | No |
| Mixed Waste Generator: | No |
| Transporter Activity: | No |
| Transfer Facility Activity: | No |
| Recycler Activity with Storage: | No |
| Small Quantity On-Site Burner Exemption: | No |
| Smelting Melting and Refining Furnace Exemption: | No |
| Underground Injection Control: | No |
| Off-Site Waste Receipt: | No |
| Universal Waste Indicator: | Yes |
| Universal Waste Destination Facility: | Yes |
| Federal Universal Waste: | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site State-Reg Handler: | --- |
| Federal Facility Indicator: | Not reported |
| Hazardous Secondary Material Indicator: | N |
| Sub-Part K Indicator: | Not reported |
| Commercial TSD Indicator: | No |
| Treatment Storage and Disposal Type: | Not reported |
| 2018 GPRA Permit Baseline: | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | Not on the Baseline |
| Permit Renewals Workload Universe: | Not reported |
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |

**A FAMILY DENTAL (Continued)** **1024846750**

| | |
|---|---|
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 20180906 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | No |
| Manifest Broker: | No |
| Sub-Part P Indicator: | No |

Handler - Owner Operator:

| | |
|---|---|
| Owner/Operator Indicator: | Operator |
| Owner/Operator Name: | SUHAIL BEGUWALA |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 854 MAGNOLIA AVE STE D |
| Owner/Operator City,State,Zip: | CORONA, CA 92879 |
| Owner/Operator Telephone: | 949-285-9495 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

| | |
|---|---|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | SUHAIL BEGUWALA |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 854 MAGNOLIA AVE STE D |
| Owner/Operator City,State,Zip: | CORONA, CA 92879 |
| Owner/Operator Telephone: | 949-285-9495 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

Historic Generators:

| | |
|---|---|
| Receive Date: | 20141007 |
| Handler Name: A FAMILY DENTAL | |
| Federal Waste Generator Description: | Not a generator, verified |
| State District Owner: | Not reported |
| Large Quantity Handler of Universal Waste: | No |
| Recognized Trader Importer: | No |
| Recognized Trader Exporter: | No |
| Spent Lead Acid Battery Importer: | No |
| Spent Lead Acid Battery Exporter: | No |
| Current Record: | Yes |
| Non Storage Recycler Activity: | Not reported |
| Electronic Manifest Broker: | Not reported |

**A FAMILY DENTAL (Continued)** **1024846750**

List of NAICS Codes and Descriptions:
NAICS Code: 62121
NAICS Description: OFFICES OF DENTISTS

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

---

**D14** **MAYNARD POGUE DDS** **RCRA NonGen / NLR** **1024796741**
**West** **1820 FULLERTON RD** **CAL000178992**
**< 1/8** **CORONA, CA 91719**
**0.052 mi.**
**276 ft.** **Site 1 of 2 in cluster D**

**Relative:** **Higher**
**Actual:** **809 ft.**

RCRA NonGen / NLR:

| | | |
|---|---|---|
| Date Form Received by Agency: | | 19970225 |
| Handler Name: | MAYNARD POGUE DDS | |
| Handler Address: | | 1820 FULLERTON RD |
| Handler City,State,Zip: | | CORONA, CA 91719-0000 |
| EPA ID: | | CAL000178992 |
| Contact Name: | | MAYNARD POGUE |
| Contact Address: | | 1820 FULLERTON AVE #225 |
| Contact City,State,Zip: | | CORONA, CA 92881 |
| Contact Telephone: | | 951-737-6775 |
| Contact Fax: | | 951-737-6770 |
| Contact Email: | | MPOGUEDDS@GMAIL.COM |
| Contact Title: | | Not reported |
| EPA Region: | | 09 |
| Land Type: | | Not reported |
| Federal Waste Generator Description: | | Not a generator, verified |
| Non-Notifier: | | Not reported |
| Biennial Report Cycle: | | Not reported |
| Accessibility: | | Not reported |
| Active Site Indicator: | | Handler Activities |
| State District Owner: | | Not reported |
| State District: | | Not reported |
| Mailing Address: | | 1820 FULLERTON AV 225 |
| Mailing City,State,Zip: | | CORONA, CA 92881-3175 |
| Owner Name: | | DR MAYNARD POGUE |
| Owner Type: | | Other |
| Operator Name: | | MAYNARD POGUE |
| Operator Type: | | Other |
| Short-Term Generator Activity: | | No |
| Importer Activity: | | No |
| Mixed Waste Generator: | | No |
| Transporter Activity: | | No |
| Transfer Facility Activity: | | No |
| Recycler Activity with Storage: | | No |
| Small Quantity On-Site Burner Exemption: | | No |
| Smelting Melting and Refining Furnace Exemption: | | No |
| Underground Injection Control: | | No |
| Off-Site Waste Receipt: | | No |
| Universal Waste Indicator: | | Yes |

**MAYNARD POGUE DDS (Continued)** **1024796741**

| | |
|---|---|
| Universal Waste Destination Facility: | Yes |
| Federal Universal Waste: | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site State-Reg Handler: | --- |
| Federal Facility Indicator: | Not reported |
| Hazardous Secondary Material Indicator: | N |
| Sub-Part K Indicator: | Not reported |
| Commercial TSD Indicator: | No |
| Treatment Storage and Disposal Type: | Not reported |
| 2018 GPRA Permit Baseline: | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | Not on the Baseline |
| Permit Renewals Workload Universe: | Not reported |
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 20180905 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | No |
| Manifest Broker: | No |
| Sub-Part P Indicator: | No |

Handler - Owner Operator:

| | |
|---|---|
| Owner/Operator Indicator: | Operator |
| Owner/Operator Name: | MAYNARD POGUE |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 1820 FULLERTON AVE #225 |
| Owner/Operator City,State,Zip: | CORONA, CA 92881 |
| Owner/Operator Telephone: | 951-737-6775 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |

**MAYNARD POGUE DDS (Continued)** **1024796741**

Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: DR MAYNARD POGUE
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 1820 FULLERTON AVE STE 225
Owner/Operator City,State,Zip: CORONA, CA 92881-3175
Owner/Operator Telephone: 951-737-6775
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 19970225
Handler Name: MAYNARD POGUE DDS
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 62121
NAICS Description: OFFICES OF DENTISTS

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

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**D15** **CORONA SUNRISE PHYSICIAN MED GRP** **RCRA-SQG** **1000819135**
**West** **1820 FULLERTON RD STE 120** **FINDS** **CAD983651035**
**< 1/8** **CORONA, CA 92882** **ECHO**
**0.052 mi.**
**276 ft.** **Site 2 of 2 in cluster D**

**Relative:**
**Higher**

**Actual:**
**809 ft.**

RCRA-SQG:
Date Form Received by Agency: 19921027
Handler Name: CORONA SUNRISE PHYSICIAN MED GRP
Handler Address: 1820 FULLERTON RD STE 120
Handler City,State,Zip: CORONA, CA 92882
EPA ID: CAD983651035
Contact Name: ELAINE TAIT
Contact Address: 1820 FULLERTON RD STE 120
Contact City,State,Zip: CORONA, CA 91719
Contact Telephone: 714-371-0070
Contact Fax: Not reported

**CORONA SUNRISE PHYSICIAN MED GRP (Continued)** **1000819135**

| | |
|---|---|
| Contact Email: | Not reported |
| Contact Title: | Not reported |
| EPA Region: | 09 |
| Land Type: | Private |
| Federal Waste Generator Description: | Small Quantity Generator |
| Non-Notifier: | Not reported |
| Biennial Report Cycle: | Not reported |
| Accessibility: | Not reported |
| Active Site Indicator: | Handler Activities |
| State District Owner: | Not reported |
| State District: | Not reported |
| Mailing Address: | 1820 FULLERTON RD STE 120 |
| Mailing City,State,Zip: | CORONA, CA 92882 |
| Owner Name: | ROBERT KO |
| Owner Type: | Private |
| Operator Name: | Not reported |
| Operator Type: | Not reported |
| Short-Term Generator Activity: | No |
| Importer Activity: | No |
| Mixed Waste Generator: | No |
| Transporter Activity: | No |
| Transfer Facility Activity: | No |
| Recycler Activity with Storage: | No |
| Small Quantity On-Site Burner Exemption: | No |
| Smelting Melting and Refining Furnace Exemption: | No |
| Underground Injection Control: | No |
| Off-Site Waste Receipt: | No |
| Universal Waste Indicator: | No |
| Universal Waste Destination Facility: | No |
| Federal Universal Waste: | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site State-Reg Handler: | --- |
| Federal Facility Indicator: | Not reported |
| Hazardous Secondary Material Indicator: | NN |
| Sub-Part K Indicator: | Not reported |
| Commercial TSD Indicator: | No |
| Treatment Storage and Disposal Type: | Not reported |
| 2018 GPRA Permit Baseline: | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | Not on the Baseline |
| Permit Renewals Workload Universe: | Not reported |
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |

**CORONA SUNRISE PHYSICIAN MED GRP (Continued)** **1000819135**

| | |
|---|---|
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 20020627 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | Not reported |
| Manifest Broker: | Not reported |
| Sub-Part P Indicator: | No |

Handler - Owner Operator:

| | |
|---|---|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | ROBERT KO |
| Legal Status: | Private |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 1820 FULLERTON STE 120 |
| Owner/Operator City,State,Zip: | CORONA, CA 91719 |
| Owner/Operator Telephone: | 818-960-8696 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

Historic Generators:

| | |
|---|---|
| Receive Date: | 19921027 |
| Handler Name: | CORONA SUNRISE PHYSICIAN MED GRP |
| Federal Waste Generator Description: | Small Quantity Generator |
| State District Owner: | Not reported |
| Large Quantity Handler of Universal Waste: | No |
| Recognized Trader Importer: | No |
| Recognized Trader Exporter: | No |
| Spent Lead Acid Battery Importer: | No |
| Spent Lead Acid Battery Exporter: | No |
| Current Record: | Yes |
| Non Storage Recycler Activity: | Not reported |
| Electronic Manifest Broker: | Not reported |

List of NAICS Codes and Descriptions:

| | |
|---|---|
| NAICS Codes: | No NAICS Codes Found |

Facility Has Received Notices of Violations:

| | |
|---|---|
| Violations: | No Violations Found |

Evaluation Action Summary:

| | |
|---|---|
| Evaluations: | No Evaluations Found |

**CORONA SUNRISE PHYSICIAN MED GRP (Continued)** **1000819135**

FINDS:
Registry ID: 110008284276

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

| | |
|---|---|
| Envid: | 1000819135 |
| Registry ID: | 110008284276 |
| DFR URL: | http://echo.epa.gov/detailed-facility-report?fid=110008284276 |
| Name: | CORONA SUNRISE PHYSICIAN MED GRP |
| Address: | 1820 FULLERTON RD STE 120 |
| City,State,Zip: | CORONA, CA 92882 |

---

**C16** **RIVERSIDE MEDICAL CLINIC** **RCRA NonGen / NLR** **1025867855**
**WNW** **818 MAGNOLIA AVE** **CAL000337433**
**< 1/8** **CORONA, CA 92879**
**0.081 mi.**
**428 ft.** **Site 2 of 4 in cluster C**

**Relative:**
**Higher**

**Actual:**
**804 ft.**

RCRA NonGen / NLR:

| | | |
|---|---|---|
| Date Form Received by Agency: | | 20081023 |
| Handler Name: | RIVERSIDE MEDICAL CLINIC | |
| Handler Address: | | 818 MAGNOLIA AVE |
| Handler City,State,Zip: | | CORONA, CA 92879-3106 |
| EPA ID: | | CAL000337433 |
| Contact Name: | | CHRISTIAN REYES |
| Contact Address: | | 3660 ARLINGTON AVE |
| Contact City,State,Zip: | | RIVERSIDE, CA 92506-3912 |
| Contact Telephone: | | 951-782-5145 |
| Contact Fax: | | 951-328-7911 |
| Contact Email: | | CHRISTIAN.REYES@RMCPS.COM |
| Contact Title: | | Not reported |
| EPA Region: | | 09 |
| Land Type: | | Not reported |
| Federal Waste Generator Description: | | Not a generator, verified |
| Non-Notifier: | | Not reported |
| Biennial Report Cycle: | | Not reported |
| Accessibility: | | Not reported |
| Active Site Indicator: | | Not reported |
| State District Owner: | | Not reported |
| State District: | | Not reported |
| Mailing Address: | | 3660 ARLINGTON AVE |
| Mailing City,State,Zip: | | RIVERSIDE, CA 92506-3912 |
| Owner Name: | | RIVERSIDE MEDICAL CLINIC PATIENT |
| Owner Type: | | Other |
| Operator Name: | | CHRISTIAN REYES |
| Operator Type: | | Other |

**RIVERSIDE MEDICAL CLINIC (Continued)** **1025867855**

| | |
|---|---|
| Short-Term Generator Activity: | No |
| Importer Activity: | No |
| Mixed Waste Generator: | No |
| Transporter Activity: | No |
| Transfer Facility Activity: | No |
| Recycler Activity with Storage: | No |
| Small Quantity On-Site Burner Exemption: | No |
| Smelting Melting and Refining Furnace Exemption: | No |
| Underground Injection Control: | No |
| Off-Site Waste Receipt: | No |
| Universal Waste Indicator: | No |
| Universal Waste Destination Facility: | No |
| Federal Universal Waste: | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site State-Reg Handler: | --- |
| Federal Facility Indicator: | Not reported |
| Hazardous Secondary Material Indicator: | N |
| Sub-Part K Indicator: | Not reported |
| Commercial TSD Indicator: | No |
| Treatment Storage and Disposal Type: | Not reported |
| 2018 GPRA Permit Baseline: | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | Not on the Baseline |
| Permit Renewals Workload Universe: | Not reported |
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 20191021 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | No |
| Manifest Broker: | No |
| Sub-Part P Indicator: | No |

**RIVERSIDE MEDICAL CLINIC (Continued)** **1025867855**

Handler - Owner Operator:

| | |
|---|---|
| Owner/Operator Indicator: | Operator |
| Owner/Operator Name: | CHRISTIAN REYES |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 3660 ARLINGTON AVE |
| Owner/Operator City,State,Zip: | RIVERSIDE, CA 92506-3912 |
| Owner/Operator Telephone: | 951-782-5145 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

| | |
|---|---|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | RIVERSIDE MEDICAL CLINIC PATIENT |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 3660 ARLINGTON AVE |
| Owner/Operator City,State,Zip: | RIVERSIDE, CA 92506-3912 |
| Owner/Operator Telephone: | 951-782-5145 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

Historic Generators:

| | |
|---|---|
| Receive Date: | 20081023 |
| Handler Name: RIVERSIDE MEDICAL CLINIC | |
| Federal Waste Generator Description: | Not a generator, verified |
| State District Owner: | Not reported |
| Large Quantity Handler of Universal Waste: | No |
| Recognized Trader Importer: | Not reported |
| Recognized Trader Exporter: | Not reported |
| Spent Lead Acid Battery Importer: | Not reported |
| Spent Lead Acid Battery Exporter: | Not reported |
| Current Record: | Yes |
| Non Storage Recycler Activity: | Not reported |
| Electronic Manifest Broker: | Not reported |

List of NAICS Codes and Descriptions:

| | |
|---|---|
| NAICS Code: | 621493 |
| NAICS Description: | FREESTANDING AMBULATORY SURGICAL AND EMERGENCY CENTERS |

Facility Has Received Notices of Violations:

| | |
|---|---|
| Violations: | No Violations Found |

Evaluation Action Summary:

| | |
|---|---|
| Evaluations: | No Evaluations Found |

**B17** **MICHAEL RODAK** **RCRA NonGen / NLR** **1026165548**
**ENE** **1121 OLYMPIC DR.** **CAC003065568**
**< 1/8** **CORONA, CA 92881**
**0.083 mi.**
**437 ft.** **Site 3 of 4 in cluster B**

**Relative:** **Lower**

**Actual:** **758 ft.**

RCRA NonGen / NLR:

| | | |
|---|---|---|
| Date Form Received by Agency: | | 20200505 |
| Handler Name: | MICHAEL RODAK | |
| Handler Address: | | 1121 OLYMPIC DR. |
| Handler City,State,Zip: | | CORONA, CA 92881 |
| EPA ID: | | CAC003065568 |
| Contact Name: | | MICHAEL RODAK |
| Contact Address: | | 1121 OLYMPIC DR. |
| Contact City,State,Zip: | | CORONA, CA 92881 |
| Contact Telephone: | | 951-768-9879 |
| Contact Fax: | | Not reported |
| Contact Email: | | MICHAEL.R@URBANSURFACES.COM |
| Contact Title: | | Not reported |
| EPA Region: | | 09 |
| Land Type: | | Not reported |
| Federal Waste Generator Description: | | Not a generator, verified |
| Non-Notifier: | | Not reported |
| Biennial Report Cycle: | | Not reported |
| Accessibility: | | Not reported |
| Active Site Indicator: | | Not reported |
| State District Owner: | | Not reported |
| State District: | | Not reported |
| Mailing Address: | | 1121 OLYMPIC DR. |
| Mailing City,State,Zip: | | CORONA, CA 92881 |
| Owner Name: | | JEREMY BRITTON |
| Owner Type: | | Other |
| Operator Name: | | MICHAEL RODAK |
| Operator Type: | | Other |
| Short-Term Generator Activity: | | No |
| Importer Activity: | | No |
| Mixed Waste Generator: | | No |
| Transporter Activity: | | No |
| Transfer Facility Activity: | | No |
| Recycler Activity with Storage: | | No |
| Small Quantity On-Site Burner Exemption: | | No |
| Smelting Melting and Refining Furnace Exemption: | | No |
| Underground Injection Control: | | No |
| Off-Site Waste Receipt: | | No |
| Universal Waste Indicator: | | No |
| Universal Waste Destination Facility: | | No |
| Federal Universal Waste: | | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | | Not reported |
| Active Site State-Reg Handler: | | --- |
| Federal Facility Indicator: | | Not reported |
| Hazardous Secondary Material Indicator: | | N |
| Sub-Part K Indicator: | | Not reported |
| Commercial TSD Indicator: | | No |
| Treatment Storage and Disposal Type: | | Not reported |
| 2018 GPRA Permit Baseline: | | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | | Not on the Baseline |
| Permit Renewals Workload Universe: | | Not reported |

**MICHAEL RODAK (Continued)** **1026165548**

| | |
|---|---|
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 20200515 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | No |
| Manifest Broker: | No |
| Sub-Part P Indicator: | No |

Handler - Owner Operator:

| | |
|---|---|
| Owner/Operator Indicator: | Operator |
| Owner/Operator Name: | MICHAEL RODAK |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 1121 OLYMPIC DR. |
| Owner/Operator City,State,Zip: | CORONA, CA 92881 |
| Owner/Operator Telephone: | 951-768-9879 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

| | |
|---|---|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | JEREMY BRITTON |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 1121 OLYMPIC DR. |
| Owner/Operator City,State,Zip: | CORONA, CA 92881 |
| Owner/Operator Telephone: | 951-817-7520 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

**MICHAEL RODAK (Continued)** **1026165548**

Historic Generators:
- Receive Date: 20200505
- Handler Name: MICHAEL RODAK
- Federal Waste Generator Description: Not a generator, verified
- State District Owner: Not reported
- Large Quantity Handler of Universal Waste: No
- Recognized Trader Importer: No
- Recognized Trader Exporter: No
- Spent Lead Acid Battery Importer: No
- Spent Lead Acid Battery Exporter: No
- Current Record: Yes
- Non Storage Recycler Activity: Not reported
- Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
- NAICS Code: 238330
- NAICS Description: FLOORING CONTRACTORS

Facility Has Received Notices of Violations:
- Violations: No Violations Found

Evaluation Action Summary:
- Evaluations: No Evaluations Found

---

**B18** **SOFF CUT** **RCRA-SQG** **1001967415**
**ENE** **1112 OLYMPIC DR** **FINDS** **CAR000068759**
**< 1/8** **CORONA, CA 92881** **ECHO**
**0.097 mi.**
**511 ft.** **Site 4 of 4 in cluster B**

**Relative:** **Lower**
**Actual:** **760 ft.**

RCRA-SQG:
- Date Form Received by Agency: 20000324
- Handler Name: SOFF CUT
- Handler Address: 1112 OLYMPIC DR
- Handler City,State,Zip: CORONA, CA 92879
- EPA ID: CAR000068759
- Contact Name: TODD BRUNEAU
- Contact Address: 1112 OLYMPIC DR
- Contact City,State,Zip: CORONA, CA 91719
- Contact Telephone: 909-272-2330
- Contact Fax: Not reported
- Contact Email: Not reported
- Contact Title: Not reported
- EPA Region: 09
- Land Type: Private
- Federal Waste Generator Description: Small Quantity Generator
- Non-Notifier: Not reported
- Biennial Report Cycle: Not reported
- Accessibility: Not reported
- Active Site Indicator: Handler Activities
- State District Owner: Not reported
- State District: Not reported
- Mailing Address: 1112 OLYMPIC DR
- Mailing City,State,Zip: CORONA, CA 91719
- Owner Name: SOFF-CUT INT'L

**SOFF CUT (Continued)** **1001967415**

| | |
|---|---|
| Owner Type: | Private |
| Operator Name: | Not reported |
| Operator Type: | Not reported |
| Short-Term Generator Activity: | No |
| Importer Activity: | No |
| Mixed Waste Generator: | No |
| Transporter Activity: | No |
| Transfer Facility Activity: | No |
| Recycler Activity with Storage: | No |
| Small Quantity On-Site Burner Exemption: | No |
| Smelting Melting and Refining Furnace Exemption: | No |
| Underground Injection Control: | No |
| Off-Site Waste Receipt: | No |
| Universal Waste Indicator: | No |
| Universal Waste Destination Facility: | No |
| Federal Universal Waste: | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site State-Reg Handler: | --- |
| Federal Facility Indicator: | Not reported |
| Hazardous Secondary Material Indicator: | NN |
| Sub-Part K Indicator: | Not reported |
| Commercial TSD Indicator: | No |
| Treatment Storage and Disposal Type: | Not reported |
| 2018 GPRA Permit Baseline: | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | Not on the Baseline |
| Permit Renewals Workload Universe: | Not reported |
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 20021007 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | Not reported |
| Manifest Broker: | Not reported |

**SOFF CUT (Continued)** **1001967415**

Sub-Part P Indicator: No

Hazardous Waste Summary:
Waste Code: D000
Waste Description: Not Defined

Waste Code: D001
Waste Description: IGNITABLE WASTE

Waste Code: D018
Waste Description: BENZENE

Waste Code: D039
Waste Description: TETRACHLOROETHYLENE

Waste Code: D040
Waste Description: TRICHLORETHYLENE

Handler - Owner Operator:
Owner/Operator Indicator: Owner
Owner/Operator Name: SOFF-CUT INT'L
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 1112 OLYMPIC DR
Owner/Operator City,State,Zip: CORONA, CA 91719
Owner/Operator Telephone: 909-272-2330
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20000324
Handler Name: SOFF CUT
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

**SOFF CUT (Continued)** **1001967415**

FINDS:
Registry ID: 110008288263

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

| | |
|---|---|
| Envid: | 1001967415 |
| Registry ID: | 110008288263 |
| DFR URL: | http://echo.epa.gov/detailed-facility-report?fid=110008288263 |
| Name: | SOFF CUT |
| Address: | 1112 OLYMPIC DR |
| City,State,Zip: | CORONA, CA 92881 |

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**E19** **ACTION INDUSTRIES** **RCRA NonGen / NLR** **1024796303**
**East** **1120 OLYMPIC DR** **CAL000174609**
**< 1/8** **CORONA, CA 91719**
**0.098 mi.**
**517 ft.** **Site 1 of 2 in cluster E**

**Relative:** RCRA NonGen / NLR:
**Lower**

| | | |
|---|---|---|
| **Actual:** Date Form Received by Agency: | | 19960304 |
| **769 ft.** Handler Name: | ACTION INDUSTRIES | |
| Handler Address: | | 1120 OLYMPIC DR |
| Handler City,State,Zip: | | CORONA, CA 91719-0000 |
| EPA ID: | | CAL000174609 |
| Contact Name: | | KEVIN KERR |
| Contact Address: | | 1120 OLYMPIC DRIVE |
| Contact City,State,Zip: | | CORONA, CA 92881 |
| Contact Telephone: | | 951-272-4200 |
| Contact Fax: | | 951-272-4222 |
| Contact Email: | | KKERR@ACTIONINDUSTRIES.COM |
| Contact Title: | | Not reported |
| EPA Region: | | 09 |
| Land Type: | | Not reported |
| Federal Waste Generator Description: | | Not a generator, verified |
| Non-Notifier: | | Not reported |
| Biennial Report Cycle: | | Not reported |
| Accessibility: | | Not reported |
| Active Site Indicator: | | Handler Activities |
| State District Owner: | | Not reported |
| State District: | | Not reported |
| Mailing Address: | | 1120 OLYMPIC DR |
| Mailing City,State,Zip: | | CORONA, CA 92881-3390 |

**ACTION INDUSTRIES (Continued)** **1024796303**

| | |
|---|---|
| Owner Name: | SHAWN VARBLE |
| Owner Type: | Other |
| Operator Name: | KEVIN KERR |
| Operator Type: | Other |
| Short-Term Generator Activity: | No |
| Importer Activity: | No |
| Mixed Waste Generator: | No |
| Transporter Activity: | No |
| Transfer Facility Activity: | No |
| Recycler Activity with Storage: | No |
| Small Quantity On-Site Burner Exemption: | No |
| Smelting Melting and Refining Furnace Exemption: | No |
| Underground Injection Control: | No |
| Off-Site Waste Receipt: | No |
| Universal Waste Indicator: | Yes |
| Universal Waste Destination Facility: | Yes |
| Federal Universal Waste: | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site State-Reg Handler: | --- |
| Federal Facility Indicator: | Not reported |
| Hazardous Secondary Material Indicator: | N |
| Sub-Part K Indicator: | Not reported |
| Commercial TSD Indicator: | No |
| Treatment Storage and Disposal Type: | Not reported |
| 2018 GPRA Permit Baseline: | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | Not on the Baseline |
| Permit Renewals Workload Universe: | Not reported |
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 20180905 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | No |

**ACTION INDUSTRIES (Continued)** **1024796303**

Manifest Broker: No
Sub-Part P Indicator: No

Handler - Owner Operator:
Owner/Operator Indicator: Operator
Owner/Operator Name: KEVIN KERR
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 1120 OLYMPIC DRIVE
Owner/Operator City,State,Zip: CORONA, CA 92881
Owner/Operator Telephone: 951-272-4200
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: SHAWN VARBLE
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 1120 OLYMPIC DR
Owner/Operator City,State,Zip: CORONA, CA 92881-3390
Owner/Operator Telephone: 951-272-4200
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 19960304
Handler Name: ACTION INDUSTRIES
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 335222
NAICS Description: HOUSEHOLD REFRIGERATOR AND HOME FREEZER MANUFACTURING

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

**E20** **ACTION INDUSTRIES** **CERS HAZ WASTE** **S113091904**
**East** **1120 OLYMPIC DR** **HAZNET** **N/A**
**< 1/8** **CORONA, CA 92881** **NPDES**
**0.098 mi.** **CIWQS**
**517 ft.** **Site 2 of 2 in cluster E** **CERS**
**HWTS**

**Relative:**
**Lower**

**Actual:**
**769 ft.**

CERS HAZ WASTE:
Name: ACTION INDUSTRIES, INC.
Address: 1120 OLYMPIC DRIVE
City,State,Zip: CORONA, CA 92881
Site ID: 384182
CERS ID: 10418098
CERS Description: Hazardous Waste Generator

HAZNET:
Name: ACTION INDUSTRIES
Address: 1120 OLYMPIC DR
Address 2: Not reported
City,State,Zip: CORONA, CA 928813390
Contact: KEVIN R. KERR
Telephone: 9512724200
Mailing Name: Not reported
Mailing Address: 1120 OLYMPIC DR

Year: 2018
Gepaid: CAL000174609
TSD EPA ID: MXC130619001
CA Waste Code: 223 - Unspecified oil-containing waste
Disposal Method: H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons: 4.58700

Year: 2017
Gepaid: CAL000174609
TSD EPA ID: MXC130619001
CA Waste Code: 223 - Unspecified oil-containing waste
Disposal Method: H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons: 1.3761

Year: 2017
Gepaid: CAL000174609
TSD EPA ID: AZR000515924
CA Waste Code: 331 - Off-specification, aged or surplus organics
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.9075

Year: 2016
Gepaid: CAL000174609
TSD EPA ID: CAD097030993
CA Waste Code: 352 - Other organic solids
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: Not reported

Year: 2016
Gepaid: CAL000174609

**ACTION INDUSTRIES (Continued)** **S113091904**

TSD EPA ID: CAL000330453
CA Waste Code: 331 - Off-specification, aged or surplus organics
Disposal Method: H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons: 0.825

Year: 2016
Gepaid: CAL000174609
TSD EPA ID: CAT080013352
CA Waste Code: 223 - Unspecified oil-containing waste
Disposal Method: H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons: 2.2101

Year: 2016
Gepaid: CAL000174609
TSD EPA ID: CAL000330453
CA Waste Code: 221 - Waste oil and mixed oil
Disposal Method: H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons: 1.007

Year: 2015
Gepaid: CAL000174609
TSD EPA ID: CAT080013352
CA Waste Code: 223 - Unspecified oil-containing waste
Disposal Method: H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons: 2.7105

Year: 2015
Gepaid: CAL000174609
TSD EPA ID: CAD097030993
CA Waste Code: 352 - Other organic solids
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.8428

Year: 2014
Gepaid: CAL000174609
TSD EPA ID: CAD097030993
CA Waste Code: 352 - Other organic solids
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.3

Click this hyperlink while viewing on your computer to access
30 additional CA HAZNET: record(s) in the EDR Site Report.

Additional Info:
Year: 1998
Gen EPA ID: CAL000174609

Shipment Date: 19981201
Creation Date: 1/21/1999 0:00:00
Receipt Date: 19981203

**ACTION INDUSTRIES (Continued)** **S113091904**

| | |
|---|---|
| Manifest ID: | 98297967 |
| Trans EPA ID: | CAD982462871 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD099452708 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAD099452708 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 222 - Oil/water separation sludge |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.9799 |
| Waste Quantity: | 235 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 19981030 |
| Creation Date: | 12/10/1998 0:00:00 |
| Receipt Date: | 19981102 |
| Manifest ID: | 98297896 |
| Trans EPA ID: | CAD982462871 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD099452708 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 222 - Oil/water separation sludge |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.834 |
| Waste Quantity: | 200 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 19981001 |
| Creation Date: | 11/19/1998 0:00:00 |
| Receipt Date: | 19981002 |
| Manifest ID: | 98297863 |
| Trans EPA ID: | CAD982462871 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD099452708 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |

**ACTION INDUSTRIES (Continued)** **S113091904**

| | |
|---|---|
| Waste Code Description: | 222 - Oil/water separation sludge |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.9174 |
| Waste Quantity: | 220 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 19980909 |
| Creation Date: | 11/2/1998 0:00:00 |
| Receipt Date: | 19980910 |
| Manifest ID: | 98297812 |
| Trans EPA ID: | CAD982462871 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD099452708 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | - Not reported |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.9382 |
| Waste Quantity: | 225 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 19980811 |
| Creation Date: | 10/1/1998 0:00:00 |
| Receipt Date: | 19980812 |
| Manifest ID: | 98297788 |
| Trans EPA ID: | CAD982462871 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD099452708 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAD099452708 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 222 - Oil/water separation sludge |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 1.1676 |
| Waste Quantity: | 280 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |

**ACTION INDUSTRIES (Continued)** **S113091904**

| | |
|---|---|
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 19980722 |
| Creation Date: | 9/15/1998 0:00:00 |
| Receipt Date: | 19980723 |
| Manifest ID: | 98297771 |
| Trans EPA ID: | CAD982462871 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD099452708 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 222 - Oil/water separation sludge |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.9799 |
| Waste Quantity: | 235 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 19980623 |
| Creation Date: | 9/3/1998 0:00:00 |
| Receipt Date: | 19980623 |
| Manifest ID: | 98297732 |
| Trans EPA ID: | CAD982462871 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD099452708 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAD099452708 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 222 - Oil/water separation sludge |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.5212 |
| Waste Quantity: | 125 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 19980528 |
| Creation Date: | 7/15/1998 0:00:00 |
| Receipt Date: | 19980529 |
| Manifest ID: | 98297679 |
| Trans EPA ID: | CAD982462871 |
| Trans Name: | Not reported |

**ACTION INDUSTRIES (Continued)** **S113091904**

| | |
|---|---|
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD099452708 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAD099452708 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 222 - Oil/water separation sludge |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 1.0008 |
| Waste Quantity: | 240 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 19980428 |
| Creation Date: | 6/26/1998 0:00:00 |
| Receipt Date: | 19980429 |
| Manifest ID: | 98297620 |
| Trans EPA ID: | CAD982462871 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD099452708 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAD099452708 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 222 - Oil/water separation sludge |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.834 |
| Waste Quantity: | 200 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 19980319 |
| Creation Date: | 5/26/1998 0:00:00 |
| Receipt Date: | 19980320 |
| Manifest ID: | 96797583 |
| Trans EPA ID: | CAD982462871 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD099452708 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAD099452708 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 222 - Oil/water separation sludge |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |

**ACTION INDUSTRIES (Continued)** **S113091904**

| | |
|---|---|
| Quantity Tons: | 0.7089 |
| Waste Quantity: | 170 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2016 |
| Gen EPA ID: | CAL000174609 |
| Shipment Date: | 20150929 |
| Creation Date: | 1/5/2016 22:35:46 |
| Receipt Date: | 20151001 |
| Manifest ID: | 010820432JJK |
| Trans EPA ID: | CAR000251215 |
| Trans Name: | ARROW ENVIRONMENTAL SOLUTIONS |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080013352 |
| Trans Name: | DEMENNO/KERDOON |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 223 - Unspecified oil-containing waste |
| RCRA Code: | Not reported |
| Meth Code: | H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect |
| Quantity Tons: | 0.6255 |
| Waste Quantity: | 150 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| Shipment Date: | 20150714 |
| Creation Date: | 9/4/2015 22:15:45 |
| Receipt Date: | 20150715 |
| Manifest ID: | 014443012JJK |
| Trans EPA ID: | CAR000251215 |
| Trans Name: | ARROW ENVIRONMENTAL SOLUTIONS INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD097030993 |
| Trans Name: | EVOQUA WATER TECHNOLOGIES LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 352 - Other organic solids |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.8428 |
| Waste Quantity: | 1 |
| Quantity Unit: | Y |

**ACTION INDUSTRIES (Continued)** **S113091904**

| | |
|---|---|
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| Shipment Date: | 20150714 |
| Creation Date: | 10/1/2015 22:15:21 |
| Receipt Date: | 20150720 |
| Manifest ID: | 014443011JJK |
| Trans EPA ID: | CAR000251215 |
| Trans Name: | ARROW ENVIRONMENTAL SOLUTIONS INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080013352 |
| Trans Name: | DEMENNO/KERDOON |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 223 - Unspecified oil-containing waste |
| RCRA Code: | Not reported |
| Meth Code: | H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect |
| Quantity Tons: | 2.085 |
| Waste Quantity: | 500 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 1996 |
| Gen EPA ID: | CAL000174609 |
| Shipment Date: | 19961121 |
| Creation Date: | 5/21/1997 0:00:00 |
| Receipt Date: | 19961122 |
| Manifest ID: | 96572917 |
| Trans EPA ID: | CAD982462871 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD099452708 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 221 - Waste oil and mixed oil |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.665 |
| Waste Quantity: | 175 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |

**ACTION INDUSTRIES (Continued)** **S113091904**

| | |
|---|---|
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 19961004 |
| Creation Date: | 5/21/1997 0:00:00 |
| Receipt Date: | 19961008 |
| Manifest ID: | 96572872 |
| Trans EPA ID: | CAD982462871 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD099452708 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 221 - Waste oil and mixed oil |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.475 |
| Waste Quantity: | 125 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 19960830 |
| Creation Date: | 5/30/1997 0:00:00 |
| Receipt Date: | 19960906 |
| Manifest ID: | 96572842 |
| Trans EPA ID: | CAD982462871 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD099452708 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 221 - Waste oil and mixed oil |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.836 |
| Waste Quantity: | 220 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 19960719 |
| Creation Date: | 5/21/1997 0:00:00 |
| Receipt Date: | 19960723 |
| Manifest ID: | 96572803 |
| Trans EPA ID: | CAD982462871 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |

**ACTION INDUSTRIES (Continued)** **S113091904**

| | |
|---|---|
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD099452708 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 221 - Waste oil and mixed oil |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.76 |
| Waste Quantity: | 200 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 19960508 |
| Creation Date: | 10/29/1996 0:00:00 |
| Receipt Date: | 19960510 |
| Manifest ID: | 95482915 |
| Trans EPA ID: | CAD982462871 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD099452708 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 221 - Waste oil and mixed oil |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.76 |
| Waste Quantity: | 200 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2011 |
| Gen EPA ID: | CAL000174609 |

| | |
|---|---|
| Shipment Date: | 20111102 |
| Creation Date: | 1/20/2012 20:31:29 |
| Receipt Date: | 20111114 |
| Manifest ID: | 001619812GBF |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |
| Trans 2 EPA ID: | CAD982413262 |
| Trans 2 Name: | EVERGREEN ENVIRONMENTAL SERVICES |
| TSDF EPA ID: | CAD981696420 |
| Trans Name: | EVERGREEN ENVIRONMENTAL SERVICES |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |

**ACTION INDUSTRIES (Continued)** **S113091904**

| | |
|---|---|
| Waste Code Description: | 134 - Aqueous solution with <10% total organic residues |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 1.155 |
| Waste Quantity: | 275 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20110922 |
| Creation Date: | 12/9/2011 18:30:13 |
| Receipt Date: | 20110929 |
| Manifest ID: | 001619636GBF |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |
| Trans 2 EPA ID: | CAD982413262 |
| Trans 2 Name: | EVERGREEN ENVIRONMENTAL SERVICES |
| TSDF EPA ID: | CAD981696420 |
| Trans Name: | EVERGREEN ENVIRONMENTAL SERVICES |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 134 - Aqueous solution with <10% total organic residues |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 1.155 |
| Waste Quantity: | 275 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20110801 |
| Creation Date: | 10/19/2011 18:30:39 |
| Receipt Date: | 20110812 |
| Manifest ID: | 001384990GBF |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |
| Trans 2 EPA ID: | CAD982413262 |
| Trans 2 Name: | EVERGREEN ENVIRONMENTAL SERVICES |
| TSDF EPA ID: | CAD981696420 |
| Trans Name: | EVERGREEN ENVIRONMENTAL SERVICES |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 134 - Aqueous solution with <10% total organic residues |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 1.05 |
| Waste Quantity: | 250 |
| Quantity Unit: | G |

**ACTION INDUSTRIES (Continued)** **S113091904**

| | |
|---|---|
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20110414 |
| Creation Date: | 10/1/2011 18:31:02 |
| Receipt Date: | 20110422 |
| Manifest ID: | 001384674GBF |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD008252405 |
| Trans Name: | PACIFIC RESOURCE RECOVERY |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 213 - Hydrocarbon solvents (benzene, hexane, Stoddard, etc. |
| RCRA Code: | D001 |
| Meth Code: | H061 - Fuel Blending Prior To Energy Recovery At Another Site |
| Quantity Tons: | 0.4587 |
| Waste Quantity: | 110 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20110414 |
| Creation Date: | 6/16/2011 18:30:10 |
| Receipt Date: | 20110420 |
| Manifest ID: | 001384673GBF |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |
| Trans 2 EPA ID: | CAD982413262 |
| Trans 2 Name: | EVERGREEN ENVIRONMENTAL SERVICES |
| TSDF EPA ID: | CAD981696420 |
| Trans Name: | EVERGREEN ENVIRONMENTAL SERVICES |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 221 - Waste oil and mixed oil |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.19 |
| Waste Quantity: | 50 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20110111 |
| Creation Date: | 3/30/2011 18:30:55 |

**ACTION INDUSTRIES (Continued)** **S113091904**

| | |
|---|---|
| Receipt Date: | 20110119 |
| Manifest ID: | 001385221GBF |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |
| Trans 2 EPA ID: | CAD982413262 |
| Trans 2 Name: | EVERGREEN ENVIRONMENTAL SERVICES |
| TSDF EPA ID: | CAD981696420 |
| Trans Name: | EVERGREEN ENVIRONMENTAL SERVICES |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 134 - Aqueous solution with <10% total organic residues |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 1.155 |
| Waste Quantity: | 275 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2001 |
| Gen EPA ID: | CAL000174609 |
| Shipment Date: | 20010206 |
| Creation Date: | 4/9/2001 0:00:00 |
| Receipt Date: | 20010207 |
| Manifest ID: | 99738494 |
| Trans EPA ID: | CAD982462871 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD099452708 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAD099452708 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 221 - Waste oil and mixed oil |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.456 |
| Waste Quantity: | 120 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| Shipment Date: | 20010111 |
| Creation Date: | 3/22/2001 0:00:00 |
| Receipt Date: | 20010116 |
| Manifest ID: | 99542919 |
| Trans EPA ID: | CAD982462871 |
| Trans Name: | Not reported |

**ACTION INDUSTRIES (Continued)** **S113091904**

| | |
|---|---|
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD099452708 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAD099452708 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 221 - Waste oil and mixed oil |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.57 |
| Waste Quantity: | 150 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 1997 |
| Gen EPA ID: | CAL000174609 |
| | |
| Shipment Date: | 19971210 |
| Creation Date: | 7/23/1998 0:00:00 |
| Receipt Date: | 19971211 |
| Manifest ID: | 96797423 |
| Trans EPA ID: | CAD982462871 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD099452708 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAD099452708 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 222 - Oil/water separation sludge |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.7297 |
| Waste Quantity: | 175 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 19971117 |
| Creation Date: | 7/23/1998 0:00:00 |
| Receipt Date: | 19971118 |
| Manifest ID: | 96797409 |
| Trans EPA ID: | CAD982462871 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD099452708 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAD099452708 |

**ACTION INDUSTRIES (Continued)** **S113091904**

| | |
|---|---|
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 222 - Oil/water separation sludge |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.7297 |
| Waste Quantity: | 175 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 19971010 |
| Creation Date: | 7/23/1998 0:00:00 |
| Receipt Date: | 19971015 |
| Manifest ID: | 96797380 |
| Trans EPA ID: | CAD982462871 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD099452708 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAD099452708 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 222 - Oil/water separation sludge |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.834 |
| Waste Quantity: | 200 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 19970919 |
| Creation Date: | 7/23/1998 0:00:00 |
| Receipt Date: | 19970922 |
| Manifest ID: | 96797328 |
| Trans EPA ID: | CAD982462871 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD099452708 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAD099452708 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 221 - Waste oil and mixed oil |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.646 |
| Waste Quantity: | 170 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |

**ACTION INDUSTRIES (Continued)** **S113091904**

| | |
|---|---|
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 19970825 |
| Creation Date: | 7/23/1998 0:00:00 |
| Receipt Date: | 19970828 |
| Manifest ID: | 96797297 |
| Trans EPA ID: | CAD982462871 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD099452708 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAD099452708 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 222 - Oil/water separation sludge |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.9591 |
| Waste Quantity: | 230 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 19970804 |
| Creation Date: | 12/4/1997 0:00:00 |
| Receipt Date: | 19970805 |
| Manifest ID: | 96797270 |
| Trans EPA ID: | CAD982462871 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD099452708 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 222 - Oil/water separation sludge |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.6255 |
| Waste Quantity: | 150 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 19970619 |
| Creation Date: | 12/4/1997 0:00:00 |
| Receipt Date: | 19970623 |
| Manifest ID: | 96573198 |
| Trans EPA ID: | CAD982462871 |

**ACTION INDUSTRIES (Continued)** **S113091904**

| | |
|---|---|
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD099452708 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 221 - Waste oil and mixed oil |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.95 |
| Waste Quantity: | 250 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 19970512 |
| Creation Date: | 7/17/1997 0:00:00 |
| Receipt Date: | 19970513 |
| Manifest ID: | 96573125 |
| Trans EPA ID: | CAD982462871 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD099452708 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 221 - Waste oil and mixed oil |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.494 |
| Waste Quantity: | 130 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 19970411 |
| Creation Date: | 6/26/1997 0:00:00 |
| Receipt Date: | 19970411 |
| Manifest ID: | 96573081 |
| Trans EPA ID: | CAD982462871 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD099452708 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAD099452708 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 221 - Waste oil and mixed oil |
| RCRA Code: | Not reported |

**ACTION INDUSTRIES (Continued)** **S113091904**

| | |
|---|---|
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.76 |
| Waste Quantity: | 200 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 19970228 |
| Creation Date: | 5/30/1997 0:00:00 |
| Receipt Date: | 19970228 |
| Manifest ID: | 96573033 |
| Trans EPA ID: | CAD982462871 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD099452708 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 221 - Waste oil and mixed oil |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.76 |
| Waste Quantity: | 200 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2013 |
| Gen EPA ID: | CAL000174609 |
| | |
| Shipment Date: | 20131107 |
| Creation Date: | 1/13/2014 22:15:06 |
| Receipt Date: | 20131111 |
| Manifest ID: | 010820199JJK |
| Trans EPA ID: | CAR000050161 |
| Trans Name: | ARROW RECYCLING SOLUTIONS INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080013352 |
| Trans Name: | DEMENNO/KERDOON |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 223 - Unspecified oil-containing waste |
| RCRA Code: | Not reported |
| Meth Code: | H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect |
| Quantity Tons: | 1.14675 |
| Waste Quantity: | 275 |
| Quantity Unit: | G |

**ACTION INDUSTRIES (Continued)** **S113091904**

| | |
|---|---|
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20130702 |
| Creation Date: | 9/22/2013 22:15:08 |
| Receipt Date: | 20130710 |
| Manifest ID: | 010820200JJK |
| Trans EPA ID: | CAR000050161 |
| Trans Name: | ARROW RECYCLING SOLUTIONS INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080013352 |
| Trans Name: | DEMENNO/KERDOON |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 491 - Unspecified sludge waste |
| RCRA Code: | Not reported |
| Meth Code: | H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect |
| Quantity Tons: | 0.4587 |
| Waste Quantity: | 110 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20130702 |
| Creation Date: | 8/22/2013 22:15:23 |
| Receipt Date: | 20130712 |
| Manifest ID: | 008459243JJK |
| Trans EPA ID: | CAR000050161 |
| Trans Name: | ARROW RECYCLING |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD097030993 |
| Trans Name: | SIEMENS WATER TECHNOLOGIES CORP |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 352 - Other organic solids |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.1225 |
| Waste Quantity: | 245 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20130426 |

**ACTION INDUSTRIES (Continued)** **S113091904**

| | |
|---|---|
| Creation Date: | 6/27/2013 22:15:06 |
| Receipt Date: | 20130429 |
| Manifest ID: | 010820444JJK |
| Trans EPA ID: | CAR000050161 |
| Trans Name: | ARROW RECYCLING SOLUTIONS INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080013352 |
| Trans Name: | DEMENNO/KERDOON |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 223 - Unspecified oil-containing waste |
| RCRA Code: | Not reported |
| Meth Code: | H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect |
| Quantity Tons: | 2.2935 |
| Waste Quantity: | 550 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20130301 |
| Creation Date: | 4/29/2013 22:15:15 |
| Receipt Date: | 20130305 |
| Manifest ID: | 010820197JJK |
| Trans EPA ID: | CAR000050161 |
| Trans Name: | ARROW RECYCLING SOLUTIONS INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080013352 |
| Trans Name: | DEMENNO/KERDOON |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 223 - Unspecified oil-containing waste |
| RCRA Code: | Not reported |
| Meth Code: | H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect |
| Quantity Tons: | 1.3761 |
| Waste Quantity: | 330 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20130121 |
| Creation Date: | 4/21/2013 22:15:04 |
| Receipt Date: | 20130221 |
| Manifest ID: | 001876045GBF |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |

**ACTION INDUSTRIES (Continued)** **S113091904**

| | |
|---|---|
| TSDF EPA ID: | CAD981696420 |
| Trans Name: | EVERGREEN ENVIRONMENTAL SERVICES |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 221 - Waste oil and mixed oil |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.57 |
| Waste Quantity: | 150 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2006 |
| Gen EPA ID: | CAL000174609 |
| Shipment Date: | 20061211 |
| Creation Date: | 4/19/2007 18:31:30 |
| Receipt Date: | 20061213 |
| Manifest ID: | 000166896GBF |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD981696420 |
| Trans Name: | EVERGREEN ENVIRONMENTAL SERVICES |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 134 - Aqueous solution with <10% total organic residues |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.546 |
| Waste Quantity: | 130 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| Shipment Date: | 20061011 |
| Creation Date: | 3/30/2007 13:33:32 |
| Receipt Date: | 20061018 |
| Manifest ID: | 000056585GBF |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD981696420 |
| Trans Name: | EVERGREEN ENVIRONMENTAL SERVICES |
| TSDF Alt EPA ID: | Not reported |

**ACTION INDUSTRIES (Continued)** **S113091904**

| | |
|---|---|
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 134 - Aqueous solution with <10% total organic residues |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.21 |
| Waste Quantity: | 50 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20061011 |
| Creation Date: | 3/30/2007 13:33:32 |
| Receipt Date: | 20061018 |
| Manifest ID: | 000056585GBF |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD981696420 |
| Trans Name: | EVERGREEN ENVIRONMENTAL SERVICES |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 134 - Aqueous solution with <10% total organic residues |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.84 |
| Waste Quantity: | 200 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20060908 |
| Creation Date: | 4/19/2007 18:30:58 |
| Receipt Date: | 20061004 |
| Manifest ID: | 000056429GBF |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD981696420 |
| Trans Name: | EVERGREEN ENVIRONMENTAL SERVICES |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 134 - Aqueous solution with <10% total organic residues |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 1.155 |
| Waste Quantity: | 275 |

**ACTION INDUSTRIES (Continued)** **S113091904**

| | |
|---|---|
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20060614 |
| Creation Date: | 9/8/2006 18:30:23 |
| Receipt Date: | 20060622 |
| Manifest ID: | 24939230 |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD981696420 |
| Trans Name: | EVERGREEN ENVIRONMENTAL SERVICES |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 134 - Aqueous solution with <10% total organic residues |
| RCRA Code: | Not reported |
| Meth Code: | H01 - Transfer Station |
| Quantity Tons: | 0.945 |
| Waste Quantity: | 225 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20060413 |
| Creation Date: | 8/1/2006 18:30:52 |
| Receipt Date: | 20060424 |
| Manifest ID: | 24804216 |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD981696420 |
| Trans Name: | EVERGREEN ENVIRONMENTAL SERVICES |
| TSDF Alt EPA ID: | CAD981696420 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 134 - Aqueous solution with <10% total organic residues |
| RCRA Code: | Not reported |
| Meth Code: | H01 - Transfer Station |
| Quantity Tons: | 1.1718 |
| Waste Quantity: | 279 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20060118 |
| Creation Date: | 8/19/2007 18:30:05 |

**ACTION INDUSTRIES (Continued)** **S113091904**

| | |
|---|---|
| Receipt Date: | 20070124 |
| Manifest ID: | 000167023GBF |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD981696420 |
| Trans Name: | EVERGREEN ENVIRONMENTAL SERVICES |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 134 - Aqueous solution with <10% total organic residues |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 1.05 |
| Waste Quantity: | 250 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2015 |
| Gen EPA ID: | CAL000174609 |
| Shipment Date: | 20150929 |
| Creation Date: | 1/5/2016 22:35:46 |
| Receipt Date: | 20151001 |
| Manifest ID: | 010820432JJK |
| Trans EPA ID: | CAR000251215 |
| Trans Name: | ARROW ENVIRONMENTAL SOLUTIONS |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080013352 |
| Trans Name: | DEMENNO/KERDOON |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 223 - Unspecified oil-containing waste |
| RCRA Code: | Not reported |
| Meth Code: | H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect |
| Quantity Tons: | 0.6255 |
| Waste Quantity: | 150 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| Shipment Date: | 20150714 |
| Creation Date: | 10/1/2015 22:15:21 |
| Receipt Date: | 20150720 |
| Manifest ID: | 014443011JJK |
| Trans EPA ID: | CAR000251215 |

**ACTION INDUSTRIES (Continued)** **S113091904**

| | |
|---|---|
| Trans Name: | ARROW ENVIRONMENTAL SOLUTIONS INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080013352 |
| Trans Name: | DEMENNO/KERDOON |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 223 - Unspecified oil-containing waste |
| RCRA Code: | Not reported |
| Meth Code: | H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect |
| Quantity Tons: | 2.085 |
| Waste Quantity: | 500 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20150714 |
| Creation Date: | 9/4/2015 22:15:45 |
| Receipt Date: | 20150715 |
| Manifest ID: | 014443012JJK |
| Trans EPA ID: | CAR000251215 |
| Trans Name: | ARROW ENVIRONMENTAL SOLUTIONS INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD097030993 |
| Trans Name: | EVOQUA WATER TECHNOLOGIES LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 352 - Other organic solids |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.8428 |
| Waste Quantity: | 1 |
| Quantity Unit: | Y |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2014 |
| Gen EPA ID: | CAL000174609 |
| | |
| Shipment Date: | 20141206 |
| Creation Date: | 2/14/2015 22:15:08 |
| Receipt Date: | 20141211 |
| Manifest ID: | 010820201JJK |
| Trans EPA ID: | CAR000050161 |
| Trans Name: | ARROW RECYCLING SOLUTIONS INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |

**ACTION INDUSTRIES (Continued)** **S113091904**

| | |
|---|---|
| TSDF EPA ID: | CAT080013352 |
| Trans Name: | DEMENNO/KERDOON |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 223 - Unspecified oil-containing waste |
| RCRA Code: | Not reported |
| Meth Code: | H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect |
| Quantity Tons: | 2.2935 |
| Waste Quantity: | 550 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20141206 |
| Creation Date: | 3/26/2015 22:15:06 |
| Receipt Date: | 20141210 |
| Manifest ID: | 010822682JJK |
| Trans EPA ID: | CAR000050161 |
| Trans Name: | ARROW RECYCLING SOLUTIONS INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD097030993 |
| Trans Name: | EVOQUA WATER TECHNOLOGIES LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 352 - Other organic solids |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.2 |
| Waste Quantity: | 400 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20140729 |
| Creation Date: | 11/3/2014 22:14:33 |
| Receipt Date: | 20140805 |
| Manifest ID: | 013252298JJK |
| Trans EPA ID: | CAR000050161 |
| Trans Name: | ARROW RECYCLING SOLUTIONS INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080013352 |
| Trans Name: | DEMENNO/KERDOON |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 223 - Unspecified oil-containing waste |
| RCRA Code: | Not reported |
| Meth Code: | H039 - Other Recovery Of Reclamation For Reuse Including Acid |

**ACTION INDUSTRIES (Continued)** **S113091904**

| | |
|---|---|
| | Regeneration, Organics Recovery Ect |
| Quantity Tons: | 0.93825 |
| Waste Quantity: | 225 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20140729 |
| Creation Date: | 11/3/2014 22:14:33 |
| Receipt Date: | 20140805 |
| Manifest ID: | 013252298JJK |
| Trans EPA ID: | CAR000050161 |
| Trans Name: | ARROW RECYCLING SOLUTIONS INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080013352 |
| Trans Name: | DEMENNO/KERDOON |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 221 - Waste oil and mixed oil |
| RCRA Code: | Not reported |
| Meth Code: | H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect |
| Quantity Tons: | 0.76 |
| Waste Quantity: | 200 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20140702 |
| Creation Date: | 9/14/2014 22:15:04 |
| Receipt Date: | 20140709 |
| Manifest ID: | 013252160JJK |
| Trans EPA ID: | CAR000050161 |
| Trans Name: | ARROW RECYCLING SOLUTIONS INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080013352 |
| Trans Name: | DEMENNO/KERDOON |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 221 - Waste oil and mixed oil |
| RCRA Code: | Not reported |
| Meth Code: | H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect |
| Quantity Tons: | 0.095 |
| Waste Quantity: | 25 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |

**ACTION INDUSTRIES (Continued)** **S113091904**

| | |
|---|---|
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20140702 |
| Creation Date: | 8/26/2014 22:15:05 |
| Receipt Date: | 20140709 |
| Manifest ID: | 013252165JJK |
| Trans EPA ID: | CAR000050161 |
| Trans Name: | ARROW RECYCLING SOLUTIONS INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD097030993 |
| Trans Name: | EVOQUA WATER TECHNOLOGIES LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 352 - Other organic solids |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.1 |
| Waste Quantity: | 200 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2017 |
| Gen EPA ID: | CAL000174609 |
| | |
| Shipment Date: | 20171215 |
| Creation Date: | 10/16/2018 18:31:15 |
| Receipt Date: | 20171221 |
| Manifest ID: | 010388194FLE |
| Trans EPA ID: | CAR000176826 |
| Trans Name: | HCI ENVIRONMENTAL & ENGINEERING SERVICE |
| Trans 2 EPA ID: | CAR000194217 |
| Trans 2 Name: | TEMARRY RECYCLING INC |
| TSDF EPA ID: | MXC130619001 |
| Trans Name: | RECICLADORA TEMARRY DE MEXICO SA DE CV |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 223 - Unspecified oil-containing waste |
| RCRA Code: | Not reported |
| Meth Code: | H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect |
| Quantity Tons: | 1.14675 |
| Waste Quantity: | 275 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

**ACTION INDUSTRIES (Continued)** **S113091904**

| | |
|---|---|
| Shipment Date: | 20171024 |
| Creation Date: | 7/17/2018 18:30:34 |
| Receipt Date: | 20171103 |
| Manifest ID: | 010967034FLE |
| Trans EPA ID: | CAR000176826 |
| Trans Name: | HCI ENVIRONMENTAL & ENGINEERING SERVICE |
| Trans 2 EPA ID: | CAR000194217 |
| Trans 2 Name: | TEMARRY RECYCLING INC |
| TSDF EPA ID: | MXC130619001 |
| Trans Name: | RECICLADORA TEMARRY DE MEXICO SA DE CV |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 223 - Unspecified oil-containing waste |
| RCRA Code: | Not reported |
| Meth Code: | H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect |
| Quantity Tons: | 1.3761 |
| Waste Quantity: | 330 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20170911 |
| Creation Date: | 11/1/2018 18:30:30 |
| Receipt Date: | 20170922 |
| Manifest ID: | 016090398JJK |
| Trans EPA ID: | CAR000287280 |
| Trans Name: | ALPHA PETROLEUM TRANSPORT INC II DBA AEEC |
| Trans 2 EPA ID: | CAR000175422 |
| Trans 2 Name: | WORLDWIDE RECOVERY SYSTEM |
| TSDF EPA ID: | AZR000515924 |
| Trans Name: | YUMA ENVIRONMENTAL SERVICES |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 331 - Off-specification, aged, or surplus organics |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.9075 |
| Waste Quantity: | 275 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20170428 |
| Creation Date: | 5/12/2018 18:32:16 |
| Receipt Date: | 20170512 |
| Manifest ID: | 016089370JJK |
| Trans EPA ID: | CAR000267260 |
| Trans Name: | ALPHA ENVIRONMENTAL ENGINEERING & CONSTRUCTION |
| Trans 2 EPA ID: | CAR000175422 |

**ACTION INDUSTRIES (Continued)** **S113091904**

| | |
|---|---|
| Trans 2 Name: | WORLDWIDE RECOVERY SYSTEMS |
| TSDF EPA ID: | AZR000515924 |
| Trans Name: | YUMA ENVIRONMENTAL SERVICES |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 331 - Off-specification, aged, or surplus organics |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.9075 |
| Waste Quantity: | 275 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2007 |
| Gen EPA ID: | CAL000174609 |
| Shipment Date: | 20071127 |
| Creation Date: | 3/4/2008 18:31:09 |
| Receipt Date: | 20071203 |
| Manifest ID: | 000379257GBF |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD981696420 |
| Trans Name: | EVERGREEN ENVIRONMENTAL SERVICES |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 134 - Aqueous solution with <10% total organic residues |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.735 |
| Waste Quantity: | 175 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| Shipment Date: | 20070919 |
| Creation Date: | 12/28/2007 18:31:29 |
| Receipt Date: | 20070924 |
| Manifest ID: | 000195412GBF |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD981696420 |
| Trans Name: | EVERGREEN ENVIRONMENTAL SERVICES |

**ACTION INDUSTRIES (Continued)** **S113091904**

| | |
|---|---|
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 134 - Aqueous solution with <10% total organic residues |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 1.155 |
| Waste Quantity: | 275 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20070919 |
| Creation Date: | 12/28/2007 18:31:29 |
| Receipt Date: | 20070924 |
| Manifest ID: | 000195412GBF |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD981696420 |
| Trans Name: | EVERGREEN ENVIRONMENTAL SERVICES |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 134 - Aqueous solution with <10% total organic residues |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.336 |
| Waste Quantity: | 80 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20070801 |
| Creation Date: | 12/28/2007 18:31:37 |
| Receipt Date: | 20070807 |
| Manifest ID: | 000196168GBF |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD981696420 |
| Trans Name: | EVERGREEN ENVIRONMENTAL SERVICES |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 134 - Aqueous solution with <10% total organic residues |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 1.05 |

**ACTION INDUSTRIES (Continued)** **S113091904**

| | |
|---|---|
| Waste Quantity: | 250 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20070524 |
| Creation Date: | 10/23/2007 18:30:29 |
| Receipt Date: | 20070605 |
| Manifest ID: | 000195957GBF |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD981696420 |
| Trans Name: | EVERGREEN ENVIRONMENTAL SERVICES |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 134 - Aqueous solution with <10% total organic residues |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 1.05 |
| Waste Quantity: | 250 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20070402 |
| Creation Date: | 8/23/2007 18:30:40 |
| Receipt Date: | 20070404 |
| Manifest ID: | 000193096GBF |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD981696420 |
| Trans Name: | EVERGREEN ENVIRONMENTAL SERVICES |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 134 - Aqueous solution with <10% total organic residues |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 1.155 |
| Waste Quantity: | 275 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

**ACTION INDUSTRIES (Continued)** **S113091904**

Additional Info:

| | |
|---|---|
| Year: | 2008 |
| Gen EPA ID: | CAL000174609 |
| Shipment Date: | 20081024 |
| Creation Date: | 12/16/2008 18:30:08 |
| Receipt Date: | 20081029 |
| Manifest ID: | 000757843GBF |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD981696420 |
| Trans Name: | EVERGREEN ENVIRONMENTAL SERVICES |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 134 - Aqueous solution with <10% total organic residues |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 1.239 |
| Waste Quantity: | 295 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| Shipment Date: | 20080822 |
| Creation Date: | 10/13/2008 18:30:08 |
| Receipt Date: | 20080827 |
| Manifest ID: | 000757635GBF |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRNMENTAL INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD981696420 |
| Trans Name: | EVERGREEN ENVIRONMENTAL SERVICES |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 134 - Aqueous solution with <10% total organic residues |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 1.155 |
| Waste Quantity: | 275 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| Shipment Date: | 20080616 |
| Creation Date: | 8/11/2008 18:30:08 |
| Receipt Date: | 20080619 |

**ACTION INDUSTRIES (Continued)** **S113091904**

| | |
|---|---|
| Manifest ID: | 000379946GBF |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD981696420 |
| Trans Name: | EVERGREEN ENVIRONMENTAL SERVICES |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 134 - Aqueous solution with <10% total organic residues |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 1.05 |
| Waste Quantity: | 250 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20080325 |
| Creation Date: | 6/9/2008 18:30:18 |
| Receipt Date: | 20080407 |
| Manifest ID: | 000379643GBF |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD981696420 |
| Trans Name: | EVERGREEN ENVIRONMENTAL SERVICES |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 134 - Aqueous solution with <10% total organic residues |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 1.05 |
| Waste Quantity: | 250 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2010 |
| Gen EPA ID: | CAL000174609 |

| | |
|---|---|
| Shipment Date: | 20100922 |
| Creation Date: | 12/30/2010 18:30:37 |
| Receipt Date: | 20100930 |
| Manifest ID: | 001293202GBF |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |

**ACTION INDUSTRIES (Continued)** **S113091904**

| | |
|---|---|
| Trans 2 EPA ID: | CAD982413262 |
| Trans 2 Name: | EVERGREEN ENVIRONMENTAL SERVICES |
| TSDF EPA ID: | CAD981696420 |
| Trans Name: | EVERGREEN ENVIRONMENTAL SERVICES |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 134 - Aqueous solution with <10% total organic residues |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 1.155 |
| Waste Quantity: | 275 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20100510 |
| Creation Date: | 8/6/2010 18:31:37 |
| Receipt Date: | 20100512 |
| Manifest ID: | 001293748GBF |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |
| Trans 2 EPA ID: | CAD982413262 |
| Trans 2 Name: | EVERGREEN ENVIRONMENTAL SERVICES |
| TSDF EPA ID: | CAD981696420 |
| Trans Name: | EVERGREEN ENVIRONMENTAL SERVICES |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 134 - Aqueous solution with <10% total organic residues |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 1.05 |
| Waste Quantity: | 250 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20100210 |
| Creation Date: | 5/20/2010 18:30:47 |
| Receipt Date: | 20100217 |
| Manifest ID: | 000935034GBF |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |
| Trans 2 EPA ID: | CAD982413262 |
| Trans 2 Name: | EVERGREEN ENVIRONMENTAL SERVICES |
| TSDF EPA ID: | CAD981696420 |
| Trans Name: | EVERGREEN ENVIRONMENTAL SERVICES |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 134 - Aqueous solution with <10% total organic residues |

**ACTION INDUSTRIES (Continued)** **S113091904**

| | |
|---|---|
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 1.05 |
| Waste Quantity: | 250 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2012 |
| Gen EPA ID: | CAL000174609 |
| Shipment Date: | 20120927 |
| Creation Date: | 3/26/2013 22:15:29 |
| Receipt Date: | 20121101 |
| Manifest ID: | 001876281GBF |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |
| Trans 2 EPA ID: | CAD980585293 |
| Trans 2 Name: | INDUSTRIAL WASTE UTILIZATION INC |
| TSDF EPA ID: | AZR000501510 |
| Trans Name: | AA SYDCOL LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 134 - Aqueous solution with <10% total organic residues |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 1.26 |
| Waste Quantity: | 300 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| Shipment Date: | 20120716 |
| Creation Date: | 10/15/2012 22:15:30 |
| Receipt Date: | 20120719 |
| Manifest ID: | 001875739GBF |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD981696420 |
| Trans Name: | EVERGREEN ENVIRONMENTAL SERVICES |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 134 - Aqueous solution with <10% total organic residues |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |

**ACTION INDUSTRIES (Continued)** **S113091904**

| | |
|---|---|
| Quantity Tons: | 1.386 |
| Waste Quantity: | 330 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20120516 |
| Creation Date: | 8/7/2012 22:15:22 |
| Receipt Date: | 20120605 |
| Manifest ID: | 001619539GBF |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD981696420 |
| Trans Name: | EVERGREEN ENVIRONMENTAL SERVICES |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 134 - Aqueous solution with <10% total organic residues |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.462 |
| Waste Quantity: | 110 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20120516 |
| Creation Date: | 8/7/2012 22:15:22 |
| Receipt Date: | 20120605 |
| Manifest ID: | 001619539GBF |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD981696420 |
| Trans Name: | EVERGREEN ENVIRONMENTAL SERVICES |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 134 - Aqueous solution with <10% total organic residues |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.84 |
| Waste Quantity: | 200 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |

**ACTION INDUSTRIES (Continued)** **S113091904**

| | |
|---|---|
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20120327 |
| Creation Date: | 5/25/2012 20:30:28 |
| Receipt Date: | 20120406 |
| Manifest ID: | 001619384GBF |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |
| Trans 2 EPA ID: | CAD982413262 |
| Trans 2 Name: | EVERGREEN ENVIRONMENTAL SERVICES |
| TSDF EPA ID: | CAD981696420 |
| Trans Name: | EVERGREEN ENVIRONMENTAL SERVICES |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 221 - Waste oil and mixed oil |
| RCRA Code: | Not reported |
| Meth Code: | - Not reported |
| Quantity Tons: | Not reported |
| Waste Quantity: | Not reported |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20120327 |
| Creation Date: | 5/25/2012 20:30:28 |
| Receipt Date: | 20120406 |
| Manifest ID: | 001619384GBF |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |
| Trans 2 EPA ID: | CAD982413262 |
| Trans 2 Name: | EVERGREEN ENVIRONMENTAL SERVICES |
| TSDF EPA ID: | CAD981696420 |
| Trans Name: | EVERGREEN ENVIRONMENTAL SERVICES |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 134 - Aqueous solution with <10% total organic residues |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 1.155 |
| Waste Quantity: | 275 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20120327 |
| Creation Date: | 5/24/2013 22:15:07 |
| Receipt Date: | 20120412 |
| Manifest ID: | 001619385GBF |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |

**ACTION INDUSTRIES (Continued)** **S113091904**

| | |
|---|---|
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD008252405 |
| Trans Name: | PACIFIC RESOURCE RECOVERY |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 213 - Hydrocarbon solvents (benzene, hexane, Stoddard, etc. |
| RCRA Code: | D001 |
| Meth Code: | H061 - Fuel Blending Prior To Energy Recovery At Another Site |
| Quantity Tons: | 0.22935 |
| Waste Quantity: | 55 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2009 |
| Gen EPA ID: | CAL000174609 |
| | |
| Shipment Date: | 20091001 |
| Creation Date: | 12/8/2009 18:30:31 |
| Receipt Date: | 20091008 |
| Manifest ID: | 000935349GBF |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD981696420 |
| Trans Name: | EVERGREEN ENVIRONMENTAL SERVICES |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 134 - Aqueous solution with <10% total organic residues |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 1.155 |
| Waste Quantity: | 275 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20090323 |
| Creation Date: | 5/11/2009 18:30:21 |
| Receipt Date: | 20090402 |
| Manifest ID: | 000758011GBF |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD981696420 |
| Trans Name: | EVERGREEN ENVIRONMENTAL SERVICES |

**ACTION INDUSTRIES (Continued)** **S113091904**

TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 134 - Aqueous solution with <10% total organic residues
RCRA Code: Not reported
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons: 0.84
Waste Quantity: 200
Quantity Unit: G
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:
Year: 1999
Gen EPA ID: CAL000174609

Shipment Date: 19991216
Creation Date: 2/15/2000 0:00:00
Receipt Date: 19991227
Manifest ID: 99114842
Trans EPA ID: CAD982462871
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAD099452708
Trans Name: Not reported
TSDF Alt EPA ID: CAD099452708
TSDF Alt Name: Not reported
Waste Code Description: 221 - Waste oil and mixed oil
RCRA Code: Not reported
Meth Code: R01 - Recycler
Quantity Tons: 0.76
Waste Quantity: 200
Quantity Unit: G
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 19991109
Creation Date: 1/11/2000 0:00:00
Receipt Date: 19991110
Manifest ID: 99115059
Trans EPA ID: CAD982462871
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAD099452708
Trans Name: Not reported
TSDF Alt EPA ID: CAD099452708
TSDF Alt Name: Not reported
Waste Code Description: 221 - Waste oil and mixed oil
RCRA Code: Not reported

**ACTION INDUSTRIES (Continued)** **S113091904**

| | |
|---|---|
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.76 |
| Waste Quantity: | 200 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 19991008 |
| Creation Date: | 11/22/1999 0:00:00 |
| Receipt Date: | 19991013 |
| Manifest ID: | 99115178 |
| Trans EPA ID: | CAD982462871 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD099452708 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAD099452708 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 221 - Waste oil and mixed oil |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.494 |
| Waste Quantity: | 130 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 19990907 |
| Creation Date: | 10/27/1999 0:00:00 |
| Receipt Date: | 19990914 |
| Manifest ID: | 99114942 |
| Trans EPA ID: | CAD982462871 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD099452708 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 221 - Waste oil and mixed oil |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.456 |
| Waste Quantity: | 120 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

**ACTION INDUSTRIES (Continued)** **S113091904**

| | |
|---|---|
| Shipment Date: | 19990819 |
| Creation Date: | 10/12/1999 0:00:00 |
| Receipt Date: | 19990819 |
| Manifest ID: | 99114990 |
| Trans EPA ID: | CAD982462871 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD099452708 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAD099452708 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 221 - Waste oil and mixed oil |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.722 |
| Waste Quantity: | 190 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 19990726 |
| Creation Date: | 9/1/1999 0:00:00 |
| Receipt Date: | 19990726 |
| Manifest ID: | 99115066 |
| Trans EPA ID: | CAD982462871 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD099452708 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAD099452708 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 221 - Waste oil and mixed oil |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.76 |
| Waste Quantity: | 200 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 19990706 |
| Creation Date: | 8/19/1999 0:00:00 |
| Receipt Date: | 19990708 |
| Manifest ID: | 99114922 |
| Trans EPA ID: | CAD982462871 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD099452708 |

**ACTION INDUSTRIES (Continued)** **S113091904**

| | |
|---|---|
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAD099452708 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 222 - Oil/water separation sludge |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.834 |
| Waste Quantity: | 200 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 19990506 |
| Creation Date: | 6/10/1999 0:00:00 |
| Receipt Date: | 19990507 |
| Manifest ID: | 98297706 |
| Trans EPA ID: | CAD982462871 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD099452708 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 222 - Oil/water separation sludge |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.834 |
| Waste Quantity: | 200 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 19990428 |
| Creation Date: | 6/3/1999 0:00:00 |
| Receipt Date: | 19990429 |
| Manifest ID: | 92321586 |
| Trans EPA ID: | CAD982462871 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD099452708 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 222 - Oil/water separation sludge |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.2293 |
| Waste Quantity: | 55 |
| Quantity Unit: | G |

**ACTION INDUSTRIES (Continued)** **S113091904**

| | |
|---|---|
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 19990324 |
| Creation Date: | 5/17/1999 0:00:00 |
| Receipt Date: | 19990326 |
| Manifest ID: | 98297984 |
| Trans EPA ID: | CAD982462871 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD099452708 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAD099452708 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 222 - Oil/water separation sludge |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.9382 |
| Waste Quantity: | 225 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2000 |
| Gen EPA ID: | CAL000174609 |
| | |
| Shipment Date: | 20001208 |
| Creation Date: | 2/1/2001 0:00:00 |
| Receipt Date: | 20001215 |
| Manifest ID: | 99738795 |
| Trans EPA ID: | CAD982462871 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD099452708 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAD099452708 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 221 - Waste oil and mixed oil |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.608 |
| Waste Quantity: | 160 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

**ACTION INDUSTRIES (Continued)** **S113091904**

| | |
|---|---|
| Shipment Date: | 20001107 |
| Creation Date: | 1/9/2001 0:00:00 |
| Receipt Date: | 20001108 |
| Manifest ID: | 99738766 |
| Trans EPA ID: | CAD982462871 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD099452708 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 221 - Waste oil and mixed oil |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.57 |
| Waste Quantity: | 150 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20001004 |
| Creation Date: | 12/13/2000 0:00:00 |
| Receipt Date: | 20001009 |
| Manifest ID: | 99738745 |
| Trans EPA ID: | CAD982462871 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD099452708 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAD099452708 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 221 - Waste oil and mixed oil |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.665 |
| Waste Quantity: | 175 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20000907 |
| Creation Date: | 12/8/2000 0:00:00 |
| Receipt Date: | 20000926 |
| Manifest ID: | 99738512 |
| Trans EPA ID: | CAD982462871 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD099452708 |

**ACTION INDUSTRIES (Continued)** **S113091904**

| | |
|---|---|
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAD099452708 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 221 - Waste oil and mixed oil |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.76 |
| Waste Quantity: | 200 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20000804 |
| Creation Date: | 10/23/2000 0:00:00 |
| Receipt Date: | 20000809 |
| Manifest ID: | 99738704 |
| Trans EPA ID: | CAD982462871 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD099452708 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAD099452708 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 221 - Waste oil and mixed oil |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.76 |
| Waste Quantity: | 200 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20000718 |
| Creation Date: | 9/11/2000 0:00:00 |
| Receipt Date: | 20000721 |
| Manifest ID: | 99738697 |
| Trans EPA ID: | CAD982462871 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD099452708 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAD099452708 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 221 - Waste oil and mixed oil |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.76 |
| Waste Quantity: | 200 |
| Quantity Unit: | G |

**ACTION INDUSTRIES (Continued)** **S113091904**

| | |
|---|---|
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20000607 |
| Creation Date: | 8/1/2000 0:00:00 |
| Receipt Date: | 20000608 |
| Manifest ID: | 99738575 |
| Trans EPA ID: | CAD982462871 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD099452708 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAD099452708 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 221 - Waste oil and mixed oil |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.76 |
| Waste Quantity: | 200 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20000424 |
| Creation Date: | 6/21/2000 0:00:00 |
| Receipt Date: | 20000428 |
| Manifest ID: | 99738545 |
| Trans EPA ID: | CAD982462871 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD099452708 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAD099452708 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 221 - Waste oil and mixed oil |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.836 |
| Waste Quantity: | 220 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20000327 |
| Creation Date: | 5/23/2000 0:00:00 |
| Receipt Date: | 20000328 |

**ACTION INDUSTRIES (Continued)** **S113091904**

| | |
|---|---|
| Manifest ID: | 99738482 |
| Trans EPA ID: | CAD982462871 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD099452708 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAD099452708 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 221 - Waste oil and mixed oil |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.57 |
| Waste Quantity: | 150 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20000216 |
| Creation Date: | 4/28/2000 0:00:00 |
| Receipt Date: | 20000221 |
| Manifest ID: | 99738472 |
| Trans EPA ID: | CAD982462871 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD099452708 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAD099452708 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 221 - Waste oil and mixed oil |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.57 |
| Waste Quantity: | 150 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

NPDES:

| | |
|---|---|
| Name: | ACTION INDUSTRIES |
| Address: | 1120 OLYMPIC DR |
| City,State,Zip: | CORONA, CA 92881 |
| Facility Status: | Active |
| NPDES Number: | CAS000001 |
| Region: | 8 |
| Agency Number: | 0 |
| Regulatory Measure ID: | 464615 |
| Place ID: | Not reported |
| Order Number: | 97-03-DWQ |
| WDID: | 8 33NEC001048 |

**ACTION INDUSTRIES (Continued)** **S113091904**

| | |
|---|---|
| Regulatory Measure Type: | Enrollee |
| Program Type: | Industrial |
| Adoption Date Of Regulatory Measure: | Not reported |
| Effective Date Of Regulatory Measure: | 10/08/2015 |
| Termination Date Of Regulatory Measure: | Not reported |
| Expiration Date Of Regulatory Measure: | Not reported |
| Discharge Address: | 1120 Olympic Dr |
| Discharge Name: | Action Industries |
| Discharge City: | Corona |
| Discharge State: | California |
| Discharge Zip: | 92881 |
| Status: | Not reported |
| Status Date: | Not reported |
| Operator Name: | Not reported |
| Operator Address: | Not reported |
| Operator City: | Not reported |
| Operator State: | Not reported |
| Operator Zip: | Not reported |

NPDES as of 03/2018:

| | |
|---|---|
| NPDES Number: | Not reported |
| Status: | Not reported |
| Agency Number: | Not reported |
| Region: | 8 |
| Regulatory Measure ID: | 464615 |
| Order Number: | Not reported |
| Regulatory Measure Type: | Industrial |
| Place ID: | Not reported |
| WDID: | 8 33NEC001048 |
| Program Type: | Not reported |
| Adoption Date Of Regulatory Measure: | Not reported |
| Effective Date Of Regulatory Measure: | Not reported |
| Expiration Date Of Regulatory Measure: | Not reported |
| Termination Date Of Regulatory Measure: | Not reported |
| Discharge Name: | Not reported |
| Discharge Address: | Not reported |
| Discharge City: | Not reported |
| Discharge State: | Not reported |
| Discharge Zip: | Not reported |
| Received Date: | 09/30/2015 |
| Processed Date: | 10/08/2015 |
| Status: | Active |
| Status Date: | 10/08/2015 |
| Place Size: | .47 |
| Place Size Unit: | Acres |
| Contact: | Mike Haynes |
| Contact Title: | General Manager |
| Contact Phone: | 951-272-4200 |
| Contact Phone Ext: | Not reported |
| Contact Email: | mhaynes@actionindustries.com |
| Operator Name: | Action Industries |
| Operator Address: | 1120 Olympic Dr |
| Operator City: | Corona |
| Operator State: | California |
| Operator Zip: | 92881 |
| Operator Contact: | Steve Livingston |
| Operator Contact Title: | Owner |
| Operator Contact Phone: | 951-272-4200 |

**ACTION INDUSTRIES (Continued)** **S113091904**

| | |
|---|---|
| Operator Contact Phone Ext: | Not reported |
| Operator Contact Email: | steve@smccast.com |
| Operator Type: | Private Business |
| Developer: | Not reported |
| Developer Address: | Not reported |
| Developer City: | Not reported |
| Developer State: | California |
| Developer Zip: | Not reported |
| Developer Contact: | Not reported |
| Developer Contact Title: | Not reported |
| Constype Linear Utility Ind: | Not reported |
| Emergency Phone: | 714-623-6423 |
| Emergency Phone Ext: | Not reported |
| Constype Above Ground Ind: | Not reported |
| Constype Below Ground Ind: | Not reported |
| Constype Cable Line Ind: | Not reported |
| Constype Comm Line Ind: | Not reported |
| Constype Commertial Ind: | Not reported |
| Constype Electrical Line Ind: | Not reported |
| Constype Gas Line Ind: | Not reported |
| Constype Industrial Ind: | Not reported |
| Constype Other Description: | Not reported |
| Constype Other Ind: | Not reported |
| Constype Recons Ind: | Not reported |
| Constype Residential Ind: | Not reported |
| Constype Transport Ind: | Not reported |
| Constype Utility Description: | Not reported |
| Constype Utility Ind: | Not reported |
| Constype Water Sewer Ind: | Not reported |
| Dir Discharge Uswater Ind: | Not reported |
| Receiving Water Name: | Not reported |
| Certifier: | Mike Haynes |
| Certifier Title: | General Manager |
| Certification Date: | 13-SEP-16 |
| Primary Sic: | 3599-Industrial and Commercial Machinery and Equipment, NEC |
| Secondary Sic: | Not reported |
| Tertiary Sic: | Not reported |
| | |
| NPDES Number: | CAS000001 |
| Status: | Active |
| Agency Number: | 0 |
| Region: | 8 |
| Regulatory Measure ID: | 464615 |
| Order Number: | 97-03-DWQ |
| Regulatory Measure Type: | Enrollee |
| Place ID: | Not reported |
| WDID: | 8 33NEC001048 |
| Program Type: | Industrial |
| Adoption Date Of Regulatory Measure: | Not reported |
| Effective Date Of Regulatory Measure: | 10/08/2015 |
| Expiration Date Of Regulatory Measure: | Not reported |
| Termination Date Of Regulatory Measure: | Not reported |
| Discharge Name: | Action Industries |
| Discharge Address: | 1120 Olympic Dr |
| Discharge City: | Corona |
| Discharge State: | California |
| Discharge Zip: | 92881 |

**ACTION INDUSTRIES (Continued)** **S113091904**

| | |
|---|---|
| Received Date: | Not reported |
| Processed Date: | Not reported |
| Status: | Not reported |
| Status Date: | Not reported |
| Place Size: | Not reported |
| Place Size Unit: | Not reported |
| Contact: | Not reported |
| Contact Title: | Not reported |
| Contact Phone: | Not reported |
| Contact Phone Ext: | Not reported |
| Contact Email: | Not reported |
| Operator Name: | Not reported |
| Operator Address: | Not reported |
| Operator City: | Not reported |
| Operator State: | Not reported |
| Operator Zip: | Not reported |
| Operator Contact: | Not reported |
| Operator Contact Title: | Not reported |
| Operator Contact Phone: | Not reported |
| Operator Contact Phone Ext: | Not reported |
| Operator Contact Email: | Not reported |
| Operator Type: | Not reported |
| Developer: | Not reported |
| Developer Address: | Not reported |
| Developer City: | Not reported |
| Developer State: | Not reported |
| Developer Zip: | Not reported |
| Developer Contact: | Not reported |
| Developer Contact Title: | Not reported |
| Constype Linear Utility Ind: | Not reported |
| Emergency Phone: | Not reported |
| Emergency Phone Ext: | Not reported |
| Constype Above Ground Ind: | Not reported |
| Constype Below Ground Ind: | Not reported |
| Constype Cable Line Ind: | Not reported |
| Constype Comm Line Ind: | Not reported |
| Constype Commertial Ind: | Not reported |
| Constype Electrical Line Ind: | Not reported |
| Constype Gas Line Ind: | Not reported |
| Constype Industrial Ind: | Not reported |
| Constype Other Description: | Not reported |
| Constype Other Ind: | Not reported |
| Constype Recons Ind: | Not reported |
| Constype Residential Ind: | Not reported |
| Constype Transport Ind: | Not reported |
| Constype Utility Description: | Not reported |
| Constype Utility Ind: | Not reported |
| Constype Water Sewer Ind: | Not reported |
| Dir Discharge Uswater Ind: | Not reported |
| Receiving Water Name: | Not reported |
| Certifier: | Not reported |
| Certifier Title: | Not reported |
| Certification Date: | Not reported |
| Primary Sic: | Not reported |
| Secondary Sic: | Not reported |
| Tertiary Sic: | Not reported |

**ACTION INDUSTRIES (Continued)** **S113091904**

| | |
|---|---|
| Name: | ACTION INDUSTRIES |
| Address: | 1120 OLYMPIC DR |
| City,State,Zip: | CORONA, CA 92881 |
| Facility Status: | Not reported |
| NPDES Number: | Not reported |
| Region: | Not reported |
| Agency Number: | Not reported |
| Regulatory Measure ID: | Not reported |
| Place ID: | Not reported |
| Order Number: | Not reported |
| WDID: | 8 33NEC001048 |
| Regulatory Measure Type: | Industrial |
| Program Type: | Not reported |
| Adoption Date Of Regulatory Measure: | Not reported |
| Effective Date Of Regulatory Measure: | Not reported |
| Termination Date Of Regulatory Measure: | Not reported |
| Expiration Date Of Regulatory Measure: | Not reported |
| Discharge Address: | Not reported |
| Discharge Name: | Not reported |
| Discharge City: | Not reported |
| Discharge State: | Not reported |
| Discharge Zip: | Not reported |
| Status: | Active |
| Status Date: | 10/08/2015 |
| Operator Name: | Action Industries |
| Operator Address: | 1120 Olympic Dr |
| Operator City: | Corona |
| Operator State: | California |
| Operator Zip: | 92881 |

NPDES as of 03/2018:

| | |
|---|---|
| NPDES Number: | Not reported |
| Status: | Not reported |
| Agency Number: | Not reported |
| Region: | 8 |
| Regulatory Measure ID: | 464615 |
| Order Number: | Not reported |
| Regulatory Measure Type: | Industrial |
| Place ID: | Not reported |
| WDID: | 8 33NEC001048 |
| Program Type: | Not reported |
| Adoption Date Of Regulatory Measure: | Not reported |
| Effective Date Of Regulatory Measure: | Not reported |
| Expiration Date Of Regulatory Measure: | Not reported |
| Termination Date Of Regulatory Measure: | Not reported |
| Discharge Name: | Not reported |
| Discharge Address: | Not reported |
| Discharge City: | Not reported |
| Discharge State: | Not reported |
| Discharge Zip: | Not reported |
| Received Date: | 09/30/2015 |
| Processed Date: | 10/08/2015 |
| Status: | Active |
| Status Date: | 10/08/2015 |
| Place Size: | .47 |
| Place Size Unit: | Acres |
| Contact: | Mike Haynes |
| Contact Title: | General Manager |

**ACTION INDUSTRIES (Continued)** **S113091904**

| | |
|---|---|
| Contact Phone: | 951-272-4200 |
| Contact Phone Ext: | Not reported |
| Contact Email: | mhaynes@actionindustries.com |
| Operator Name: | Action Industries |
| Operator Address: | 1120 Olympic Dr |
| Operator City: | Corona |
| Operator State: | California |
| Operator Zip: | 92881 |
| Operator Contact: | Steve Livingston |
| Operator Contact Title: | Owner |
| Operator Contact Phone: | 951-272-4200 |
| Operator Contact Phone Ext: | Not reported |
| Operator Contact Email: | steve@smccast.com |
| Operator Type: | Private Business |
| Developer: | Not reported |
| Developer Address: | Not reported |
| Developer City: | Not reported |
| Developer State: | California |
| Developer Zip: | Not reported |
| Developer Contact: | Not reported |
| Developer Contact Title: | Not reported |
| Constype Linear Utility Ind: | Not reported |
| Emergency Phone: | 714-623-6423 |
| Emergency Phone Ext: | Not reported |
| Constype Above Ground Ind: | Not reported |
| Constype Below Ground Ind: | Not reported |
| Constype Cable Line Ind: | Not reported |
| Constype Comm Line Ind: | Not reported |
| Constype Commertial Ind: | Not reported |
| Constype Electrical Line Ind: | Not reported |
| Constype Gas Line Ind: | Not reported |
| Constype Industrial Ind: | Not reported |
| Constype Other Description: | Not reported |
| Constype Other Ind: | Not reported |
| Constype Recons Ind: | Not reported |
| Constype Residential Ind: | Not reported |
| Constype Transport Ind: | Not reported |
| Constype Utility Description: | Not reported |
| Constype Utility Ind: | Not reported |
| Constype Water Sewer Ind: | Not reported |
| Dir Discharge Uswater Ind: | Not reported |
| Receiving Water Name: | Not reported |
| Certifier: | Mike Haynes |
| Certifier Title: | General Manager |
| Certification Date: | 13-SEP-16 |
| Primary Sic: | 3599-Industrial and Commercial Machinery and Equipment, NEC |
| Secondary Sic: | Not reported |
| Tertiary Sic: | Not reported |
| | |
| NPDES Number: | CAS000001 |
| Status: | Active |
| Agency Number: | 0 |
| Region: | 8 |
| Regulatory Measure ID: | 464615 |
| Order Number: | 97-03-DWQ |
| Regulatory Measure Type: | Enrollee |
| Place ID: | Not reported |

**ACTION INDUSTRIES (Continued)** **S113091904**

| | |
|---|---|
| WDID: | 8 33NEC001048 |
| Program Type: | Industrial |
| Adoption Date Of Regulatory Measure: | Not reported |
| Effective Date Of Regulatory Measure: | 10/08/2015 |
| Expiration Date Of Regulatory Measure: | Not reported |
| Termination Date Of Regulatory Measure: | Not reported |
| Discharge Name: | Action Industries |
| Discharge Address: | 1120 Olympic Dr |
| Discharge City: | Corona |
| Discharge State: | California |
| Discharge Zip: | 92881 |
| Received Date: | Not reported |
| Processed Date: | Not reported |
| Status: | Not reported |
| Status Date: | Not reported |
| Place Size: | Not reported |
| Place Size Unit: | Not reported |
| Contact: | Not reported |
| Contact Title: | Not reported |
| Contact Phone: | Not reported |
| Contact Phone Ext: | Not reported |
| Contact Email: | Not reported |
| Operator Name: | Not reported |
| Operator Address: | Not reported |
| Operator City: | Not reported |
| Operator State: | Not reported |
| Operator Zip: | Not reported |
| Operator Contact: | Not reported |
| Operator Contact Title: | Not reported |
| Operator Contact Phone: | Not reported |
| Operator Contact Phone Ext: | Not reported |
| Operator Contact Email: | Not reported |
| Operator Type: | Not reported |
| Developer: | Not reported |
| Developer Address: | Not reported |
| Developer City: | Not reported |
| Developer State: | Not reported |
| Developer Zip: | Not reported |
| Developer Contact: | Not reported |
| Developer Contact Title: | Not reported |
| Constype Linear Utility Ind: | Not reported |
| Emergency Phone: | Not reported |
| Emergency Phone Ext: | Not reported |
| Constype Above Ground Ind: | Not reported |
| Constype Below Ground Ind: | Not reported |
| Constype Cable Line Ind: | Not reported |
| Constype Comm Line Ind: | Not reported |
| Constype Commertial Ind: | Not reported |
| Constype Electrical Line Ind: | Not reported |
| Constype Gas Line Ind: | Not reported |
| Constype Industrial Ind: | Not reported |
| Constype Other Description: | Not reported |
| Constype Other Ind: | Not reported |
| Constype Recons Ind: | Not reported |
| Constype Residential Ind: | Not reported |
| Constype Transport Ind: | Not reported |
| Constype Utility Description: | Not reported |

**ACTION INDUSTRIES (Continued)** **S113091904**

| | |
|---|---|
| Constype Utility Ind: | Not reported |
| Constype Water Sewer Ind: | Not reported |
| Dir Discharge Uswater Ind: | Not reported |
| Receiving Water Name: | Not reported |
| Certifier: | Not reported |
| Certifier Title: | Not reported |
| Certification Date: | Not reported |
| Primary Sic: | Not reported |
| Secondary Sic: | Not reported |
| Tertiary Sic: | Not reported |

CIWQS:

| | |
|---|---|
| Name: | ACTION INDUSTRIES |
| Address: | 1120 OLYMPIC DR |
| City,State,Zip: | CORONA, CA 92881 |
| Agency: | Action Industries |
| Agency Address: | 1120 Olympic Dr, Corona, CA 92881 |
| Place/Project Type: | Industrial - Industrial and Commercial Machinery and Equipment, NEC |
| SIC/NAICS: | 3599 |
| Region: | 8 |
| Program: | INDSTW |
| Regulatory Measure Status: | Active |
| Regulatory Measure Type: | Storm water industrial |
| Order Number: | 2014-0057-DWQ |
| WDID: | 8 33NEC001048 |
| NPDES Number: | CAS000001 |
| Adoption Date: | Not reported |
| Effective Date: | 10/08/2015 |
| Termination Date: | Not reported |
| Expiration/Review Date: | Not reported |
| Design Flow: | Not reported |
| Major/Minor: | Not reported |
| Complexity: | Not reported |
| TTWQ: | Not reported |
| Enforcement Actions within 5 years: | 1 |
| Violations within 5 years: | 1 |
| Latitude: | 33.858525 |
| Longitude: | -117.543059 |

CERS:

| | |
|---|---|
| Name: | ACTION INDUSTRIES |
| Address: | 1120 OLYMPIC DR |
| City,State,Zip: | CORONA, CA 92881 |
| Site ID: | 525443 |
| CERS ID: | 841333 |
| CERS Description: | Industrial Facility Storm Water |

Violations:

| | |
|---|---|
| Site ID: | 525443 |
| Site Name: | Action Industries |
| Violation Date: | 10-02-2017 |
| Citation: | 2014-0057-DWQ - Industrial General Permit |
| Violation Description: | SW - Failure to Obtain Permit |
| Violation Notes: | DISCHARGER FAILED TO RECERTIFY THE NEC BY OCTOBER 1, 2017 |
| Violation Division: | Water Boards |
| Violation Program: | INDSTW |

**ACTION INDUSTRIES (Continued)** **S113091904**

Violation Source: SMARTS,

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-19-2017
Violations Found: No
Eval Type: Industrial Storm Water Compliance Evaluation
Eval Notes: The site is a small scale machine shop for manufacturing metal parts. The wastes at the site include oils, metal shavings, used coolant from the machinery. All wastes and raw materials, and products were observed stored indoors. All waste containers were observed on secondary containments. No areas of exposure were found.
Eval Division: Water Boards
Eval Program: INDSTW
Eval Source: SMARTS,

Enforcement Action:
Site ID: 525443
Site Name: Action Industries
Site Address: 1120 OLYMPIC DR
Site City: CORONA
Site Zip: 92881
Enf Action Date: 10-05-2017
Enf Action Type: Industrial Storm Water Enforcement
Enf Action Description: Industrial Storm Water Enforcement
Enf Action Notes: DISCHARGER FAILED TO RECERTIFY THE NEC BY OCTOBER 1, 2017
Enf Action Division: Water Boards
Enf Action Program: INDSTW
Enf Action Source: SMARTS,

Affiliation:
Affiliation Type Desc: Owner/Operator
Entity Name: Action Industries
Entity Title: Operator
Affiliation Address: 1120 Olympic Dr
Affiliation City: Corona
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92881
Affiliation Phone: ,

Name: ACTION INDUSTRIES, INC.
Address: 1120 OLYMPIC DRIVE
City,State,Zip: CORONA, CA 92881
Site ID: 384182
CERS ID: 10418098
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 384182
Site Name: Action Industries, Inc.
Violation Date: 05-12-2020
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to annually review and electronically certify that the

**ACTION INDUSTRIES (Continued)** **S113091904**

| | |
|---|---|
| | business plan is complete and accurate on or before the annual due date. |
| Violation Notes: | Returned to compliance on 06/25/2020. Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date. Update and submit a complete hazardous materials business plan into CERS for review and approval by 6/12/2020. |
| Violation Division: | Corona Fire Department |
| Violation Program: | HMRRP |
| Violation Source: | CERS, |
| | |
| Site ID: | 384182 |
| Site Name: | Action Industries, Inc. |
| Violation Date: | 12-03-2013 |
| Citation: | HSC 6.95 25505(a) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a) |
| Violation Description: | Owner/Operator failed to complete and/or submit a Hazardous Materials Business Plan when storing hazardous materials at or above the thresholds quantities of 55 gallons/500 lbs/200 cubic feet. |
| Violation Notes: | Returned to compliance on 06/30/2014. |
| Violation Division: | Corona Fire Department |
| Violation Program: | HMRRP |
| Violation Source: | CERS, |
| | |
| Site ID: | 384182 |
| Site Name: | Action Industries, Inc. |
| Violation Date: | 02-10-2014 |
| Citation: | HSC 6.95 25504(a) - California Health and Safety Code, Chapter 6.95, Section(s) 25504(a) |
| Violation Description: | Failure to complete and/or submit hazardous material inventory forms for all reportable hazardous materials on site. |
| Violation Notes: | Returned to compliance on 06/30/2014. |
| Violation Division: | Corona Fire Department |
| Violation Program: | HMRRP |
| Violation Source: | CERS, |
| | |
| Site ID: | 384182 |
| Site Name: | Action Industries, Inc. |
| Violation Date: | 07-10-2019 |
| Citation: | 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f) |
| Violation Description: | Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date. |
| Violation Notes: | Returned to compliance on 07/10/2019. OBSERVATION: Observed no hazardous waste label on the oily water tote. CORRECTIVE ACTION: Owner/operator shall label hazardous waste containers with all the required information. Label shall include at least: the words ""hazardous waste"", generator name and address, accumulation start date, composition and physical state of waste, and hazardous property statement. Submit photos to this department, if applicable. CORRECTED ON SITE |
| Violation Division: | Riverside County Department of Env Health |
| Violation Program: | HW |
| Violation Source: | CERS, |

**ACTION INDUSTRIES (Continued)** **S113091904**

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|---|---|
| Site ID: | 384182 |
| Site Name: | Action Industries, Inc. |
| Violation Date: | 05-12-2020 |
| Citation: | HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1) |
| Violation Description: | Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities. |
| Violation Notes: | Returned to compliance on 06/25/2020. Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities. Update Hazardous materials inventories on site and submit into CERS for review and approval by 6/12/2020. |
| Violation Division: | Corona Fire Department |
| Violation Program: | HMRRP |
| Violation Source: | CERS, |

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|---|---|
| Site ID: | 384182 |
| Site Name: | Action Industries, Inc. |
| Violation Date: | 03-07-2017 |
| Citation: | HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple |
| Violation Description: | Business Plan Program - Administration/Documentation - General |
| Violation Notes: | Returned to compliance on 05/09/2017. 104A- Replace faded building placard. Ratings on placard are incorrect, revise according to what is listed in inventory. |
| Violation Division: | Corona Fire Department |
| Violation Program: | HMRRP |
| Violation Source: | CERS, |

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|---|---|
| Site ID: | 384182 |
| Site Name: | Action Industries, Inc. |
| Violation Date: | 02-13-2014 |
| Citation: | 19 CCR 4 2729.2(a)(3) - California Code of Regulations, Title 19, Chapter 4, Section(s) 2729.2(a)(3) |
| Violation Description: | Failure to complete and/or submit an annotated site map if required by CUPA. |
| Violation Notes: | Returned to compliance on 06/30/2014. |
| Violation Division: | Corona Fire Department |
| Violation Program: | HMRRP |
| Violation Source: | CERS, |

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|---|---|
| Site ID: | 384182 |
| Site Name: | Action Industries, Inc. |
| Violation Date: | 12-03-2013 |
| Citation: | HSC 6.95 25504(c) - California Health and Safety Code, Chapter 6.95, Section(s) 25504(c) |
| Violation Description: | Failure to include an adequate training program in the business plan, which is reasonable and appropriate for the size of the business and the nature of the hazardous material handled. |
| Violation Notes: | Returned to compliance on 02/10/2014. |
| Violation Division: | Corona Fire Department |
| Violation Program: | HMRRP |
| Violation Source: | CERS, |

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|---|---|
| Site ID: | 384182 |
| Site Name: | Action Industries, Inc. |

**ACTION INDUSTRIES (Continued)** **S113091904**

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|---|---|
| Violation Date: | 12-03-2013 |
| Citation: | HSC 6.95 25504(c) - California Health and Safety Code, Chapter 6.95, Section(s) 25504(c) |
| Violation Description: | Failure to include provisions in the business plan to ensure that appropriate personnel receive initial and annual training. |
| Violation Notes: | Returned to compliance on 02/10/2014. |
| Violation Division: | Corona Fire Department |
| Violation Program: | HMRRP |
| Violation Source: | CERS, |
| | |
| Site ID: | 384182 |
| Site Name: | Action Industries, Inc. |
| Violation Date: | 12-03-2013 |
| Citation: | 19 CCR 4 2729.2(a)(1) - California Code of Regulations, Title 19, Chapter 4, Section(s) 2729.2(a)(1) |
| Violation Description: | Owner/Operator failed to complete and/or submit the Business Activities Page and/or Business Owner Operator Identification Page. |
| Violation Notes: | Returned to compliance on 02/13/2014. |
| Violation Division: | Corona Fire Department |
| Violation Program: | HMRRP |
| Violation Source: | CERS, |
| | |
| Site ID: | 384182 |
| Site Name: | Action Industries, Inc. |
| Violation Date: | 07-10-2019 |
| Citation: | 40 CFR 1 265.31 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.31 |
| Violation Description: | Failure to maintain and operate the facility to minimize the possibility of a fire, explosion, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to air, soil, or surface water which could threaten human health or the environment. |
| Violation Notes: | Returned to compliance on 07/11/2019. Observed oily water pooling in the secondary containment for the oily water poly tote. Owner/operator shall clean oily water, and maintain the secondary containment clean and dry. Pictures of the cleaned secondary containment can be e-mailed to Jwood@rivco.org to clear the violation. |
| Violation Division: | Riverside County Department of Env Health |
| Violation Program: | HW |
| Violation Source: | CERS, |
| | |
| Site ID: | 384182 |
| Site Name: | Action Industries, Inc. |
| Violation Date: | 11-02-2020 |
| Citation: | Un-Specified |
| Violation Description: | Business Plan Program - Operations/Maintenance - General Local Ordinance |
| Violation Notes: | Returned to compliance on 12/03/2020. OBSERVATION: Propane cylinders were not properly stored to protect from damage of falling over. CORRECTIVE ACTION: Use a chain, rack or cage etc. to properly store all compressed gas cylinders on site. To clear violation send a clear photo showing cylinders properly secured to john.brown@coronaca.gov within 30 days of this inspection report. |
| Violation Division: | Corona Fire Department |
| Violation Program: | HMRRP |
| Violation Source: | CERS, |

**ACTION INDUSTRIES (Continued)** **S113091904**

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|---|---|
| Site ID: | 384182 |
| Site Name: | Action Industries, Inc. |
| Violation Date: | 03-07-2017 |
| Citation: | HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple |
| Violation Description: | Business Plan Program - Operations/Maintenance - General |
| Violation Notes: | Returned to compliance on 05/01/2017. 104B- Fill in numbers on CA labor poster |
| Violation Division: | Corona Fire Department |
| Violation Program: | HMRRP |
| Violation Source: | CERS, |

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|---|---|
| Site ID: | 384182 |
| Site Name: | Action Industries, Inc. |
| Violation Date: | 02-10-2014 |
| Citation: | 19 CCR 4 2729.2(a)(1) - California Code of Regulations, Title 19, Chapter 4, Section(s) 2729.2(a)(1) |
| Violation Description: | Owner/Operator failed to complete and/or submit the Business Activities Page and/or Business Owner Operator Identification Page. |
| Violation Notes: | Returned to compliance on 02/13/2014. |
| Violation Division: | Corona Fire Department |
| Violation Program: | HMRRP |
| Violation Source: | CERS, |

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|---|---|
| Site ID: | 384182 |
| Site Name: | Action Industries, Inc. |
| Violation Date: | 11-02-2020 |
| Citation: | HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4) |
| Violation Description: | Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years. |
| Violation Notes: | Returned to compliance on 12/03/2020. OBSERVATION: No training records regarding the HMBP and its components could be produced when asked. CORRECTIVE ACTION: Implement Initial employee training as required by Chapter 6.95 of HSC and keep documentation of training via topic, employee roster and dates, maintained on site available for inspection for no less than 3 years. To clear violation email documentation of employee training specific to the HMBP and its components to john.brown@coronaca.gov within 30 days of this inspection report. |
| Violation Division: | Corona Fire Department |
| Violation Program: | HMRRP |
| Violation Source: | CERS, |

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|---|---|
| Site ID: | 384182 |
| Site Name: | Action Industries, Inc. |
| Violation Date: | 03-07-2017 |
| Citation: | HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4) |
| Violation Description: | Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years. |
| Violation Notes: | Returned to compliance on 05/05/2017. Send most recent hazmat training to ab@ggcorp.net |
| Violation Division: | Corona Fire Department |

**ACTION INDUSTRIES (Continued)** **S113091904**

Violation Program: HMRRP
Violation Source: CERS,

Site ID: 384182
Site Name: Action Industries, Inc.
Violation Date: 02-10-2014
Citation: 19 CCR 4 2729.2(a)(3) - California Code of Regulations, Title 19, Chapter 4, Section(s) 2729.2(a)(3)
Violation Description: Failure to complete and/or submit an annotated site map if required by CUPA.
Violation Notes: Returned to compliance on 06/30/2014.
Violation Division: Corona Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 384182
Site Name: Action Industries, Inc.
Violation Date: 12-03-2013
Citation: HSC 6.95 25504(a) - California Health and Safety Code, Chapter 6.95, Section(s) 25504(a)
Violation Description: Failure to complete and/or submit hazardous material inventory forms for all reportable hazardous materials on site.
Violation Notes: Returned to compliance on 06/30/2014.
Violation Division: Corona Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 384182
Site Name: Action Industries, Inc.
Violation Date: 02-13-2014
Citation: HSC 6.95 25504(a) - California Health and Safety Code, Chapter 6.95, Section(s) 25504(a)
Violation Description: Failure to complete and/or submit hazardous material inventory forms for all reportable hazardous materials on site.
Violation Notes: Returned to compliance on 06/30/2014.
Violation Division: Corona Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 384182
Site Name: Action Industries, Inc.
Violation Date: 02-13-2014
Citation: HSC 6.95 25505(a) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)
Violation Description: Owner/Operator failed to complete and/or submit a Hazardous Materials Business Plan when storing hazardous materials at or above the thresholds quantities of 55 gallons/500 lbs/200 cubic feet.
Violation Notes: Returned to compliance on 06/30/2014.
Violation Division: Corona Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 384182
Site Name: Action Industries, Inc.
Violation Date: 05-26-2016
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)

**ACTION INDUSTRIES (Continued)** **S113091904**

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|---|---|
| Violation Description: | Failure to properly label hazardous waste accumulation containers with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date. |
| Violation Notes: | Returned to compliance on 08/05/2016. |
| Violation Division: | Riverside County Department of Env Health |
| Violation Program: | HW |
| Violation Source: | CERS, |
| | |
| Site ID: | 384182 |
| Site Name: | Action Industries, Inc. |
| Violation Date: | 03-07-2017 |
| Citation: | HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1) |
| Violation Description: | Failure to establish and electronically submit an adequate emergency response plan and procedures for a release or threatened release of a hazardous material. |
| Violation Notes: | Returned to compliance on 04/27/2017. Not accepted, refer to Diedre's comments. |
| Violation Division: | Corona Fire Department |
| Violation Program: | HMRRP |
| Violation Source: | CERS, |
| | |
| Site ID: | 384182 |
| Site Name: | Action Industries, Inc. |
| Violation Date: | 05-26-2016 |
| Citation: | 40 CFR 1 262.34(d)(5)(ii) - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 262.34(d)(5)(ii) |
| Violation Description: | Failure to post, next to the telephone, Emergency Information (SQG) containing the location of emergency equipment, contact names and numbers. |
| Violation Notes: | Returned to compliance on 08/05/2016. |
| Violation Division: | Riverside County Department of Env Health |
| Violation Program: | HW |
| Violation Source: | CERS, |
| | |
| Site ID: | 384182 |
| Site Name: | Action Industries, Inc. |
| Violation Date: | 02-10-2014 |
| Citation: | HSC 6.95 25505(a) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a) |
| Violation Description: | Owner/Operator failed to complete and/or submit a Hazardous Materials Business Plan when storing hazardous materials at or above the thresholds quantities of 55 gallons/500 lbs/200 cubic feet. |
| Violation Notes: | Returned to compliance on 06/30/2014. |
| Violation Division: | Corona Fire Department |
| Violation Program: | HMRRP |
| Violation Source: | CERS, |
| | |
| Site ID: | 384182 |
| Site Name: | Action Industries, Inc. |
| Violation Date: | 05-12-2020 |
| Citation: | HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1) |
| Violation Description: | Failure to establish and electronically submit an adequate emergency response plan and procedures for a release or threatened release of a hazardous material. |

**ACTION INDUSTRIES (Continued)** **S113091904**

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|---|---|
| Violation Notes: | Returned to compliance on 06/25/2020. Failure to establish and electronically submit an adequate emergency response plan and procedures for a release or threatened release of a hazardous material. Update your emergency response / contingency plan and submit into CERS for review and approval by 6/12/2020. |
| Violation Division: | Corona Fire Department |
| Violation Program: | HMRRP |
| Violation Source: | CERS, |
| | |
| Site ID: | 384182 |
| Site Name: | Action Industries, Inc. |
| Violation Date: | 03-07-2017 |
| Citation: | HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple |
| Violation Description: | Business Plan Program - Operations/Maintenance - General |
| Violation Notes: | Returned to compliance on 04/20/2017. 105A- Clean pooled oil on top of oil drums. |
| Violation Division: | Corona Fire Department |
| Violation Program: | HMRRP |
| Violation Source: | CERS, |
| | |
| Site ID: | 384182 |
| Site Name: | Action Industries, Inc. |
| Violation Date: | 03-07-2017 |
| Citation: | HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1) |
| Violation Description: | Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities. |
| Violation Notes: | Returned to compliance on 04/27/2017. Remove- Wap Way 68, Mobil DTE, Mobilmet 766, Shellsol, propane |
| Violation Division: | Corona Fire Department |
| Violation Program: | HMRRP |
| Violation Source: | CERS, |
| | |
| Site ID: | 384182 |
| Site Name: | Action Industries, Inc. |
| Violation Date: | 12-03-2013 |
| Citation: | 19 CCR 4 2729.2(a)(3) - California Code of Regulations, Title 19, Chapter 4, Section(s) 2729.2(a)(3) |
| Violation Description: | Failure to complete and/or submit an annotated site map if required by CUPA. |
| Violation Notes: | Returned to compliance on 06/30/2014. |
| Violation Division: | Corona Fire Department |
| Violation Program: | HMRRP |
| Violation Source: | CERS, |
| | |
| Site ID: | 384182 |
| Site Name: | Action Industries, Inc. |
| Violation Date: | 02-13-2014 |
| Citation: | HSC 6.95 25503.5(a) - California Health and Safety Code, Chapter 6.95, Section(s) 25503.5(a) |
| Violation Description: | Owner/Operator failed to establish and implement a Hazardous Materials Business Plan when storing hazardous materials at or above the thresholds quantities of 55 gallons/500 lbs/200 cubic feet. |
| Violation Notes: | Returned to compliance on 06/30/2014. |
| Violation Division: | Corona Fire Department |

**ACTION INDUSTRIES (Continued)** **S113091904**

Violation Program: HMRRP
Violation Source: CERS,

Site ID: 384182
Site Name: Action Industries, Inc.
Violation Date: 12-03-2013
Citation: HSC 6.95 25503.5(a) - California Health and Safety Code, Chapter 6.95, Section(s) 25503.5(a)
Violation Description: Owner/Operator failed to establish and implement a Hazardous Materials Business Plan when storing hazardous materials at or above the thresholds quantities of 55 gallons/500 lbs/200 cubic feet.
Violation Notes: Returned to compliance on 06/30/2014.
Violation Division: Corona Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 384182
Site Name: Action Industries, Inc.
Violation Date: 12-03-2013
Citation: HSC 6.95 25504(b) - California Health and Safety Code, Chapter 6.95, Section(s) 25504(b)
Violation Description: Failure to include adequate emergency response procedures in the business plan for a release or threatened release.
Violation Notes: Returned to compliance on 02/10/2014.
Violation Division: Corona Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 384182
Site Name: Action Industries, Inc.
Violation Date: 05-12-2020
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit a site map with all required content.
Violation Notes: Returned to compliance on 06/25/2020. Failure to complete and electronically submit a site map with all required content. Update your site map and submit into CERS, ensure all required elements are included: North Orientation, Loading areas, Internal Roads, Adjacent streets, Storm and sewer drains, Access and exit points, Emergency shutoffs, Evacuation staging areas, Hazardous Materials handling and storage locations and, Emergency Response Equipment (hydrants, riser, alarm panel, extinguishers, spill kit, ect.). All text must be oriented in the same direction and a legend is required if using symbols. If hand drawn use a straight edge. Submit by 6/12/2020.
Violation Division: Corona Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 384182
Site Name: Action Industries, Inc.
Violation Date: 03-07-2017
Citation: HSC 6.95 25505(c) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(c)
Violation Description: Failure to have a business plan readily available to personnel of the business or the unified program facility with responsibilities for emergency response or training.

**ACTION INDUSTRIES (Continued)** **S113091904**

Violation Notes: Returned to compliance on 05/04/2017.
Violation Division: Corona Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 384182
Site Name: Action Industries, Inc.
Violation Date: 02-10-2014
Citation: HSC 6.95 25503.5(a) - California Health and Safety Code, Chapter 6.95, Section(s) 25503.5(a)
Violation Description: Owner/Operator failed to establish and implement a Hazardous Materials Business Plan when storing hazardous materials at or above the thresholds quantities of 55 gallons/500 lbs/200 cubic feet.
Violation Notes: Returned to compliance on 06/30/2014.
Violation Division: Corona Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Evaluation:
Eval General Type: Other/Unknown
Eval Date: 05-12-2020
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: E Inspect
Eval Division: Corona Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-26-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Riverside County Department of Env Health
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-03-2013
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Corona Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-10-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Corona Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-13-2014

**ACTION INDUSTRIES (Continued)** **S113091904**

Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Corona Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 04-20-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Corona Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-07-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Corona Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-10-2019
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Riverside County Department of Env Health
Eval Program: HW
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 07-27-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Riverside County Department of Env Health
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-02-2020
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Corona Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Enforcement Action:
Site ID: 384182
Site Name: Action Industries, Inc.
Site Address: 1120 OLYMPIC DRIVE
Site City: CORONA

**ACTION INDUSTRIES (Continued)** **S113091904**

Site Zip: 92881
Enf Action Date: 02-10-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Corona Fire Department
Enf Action Program: HMRRP
Enf Action Source: CERS,

Site ID: 384182
Site Name: Action Industries, Inc.
Site Address: 1120 OLYMPIC DRIVE
Site City: CORONA
Site Zip: 92881
Enf Action Date: 02-13-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Corona Fire Department
Enf Action Program: HMRRP
Enf Action Source: CERS,

Site ID: 384182
Site Name: Action Industries, Inc.
Site Address: 1120 OLYMPIC DRIVE
Site City: CORONA
Site Zip: 92881
Enf Action Date: 04-05-2017
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Fines/Penalties Assessed: $100.00. FP#7009 Failure to make corrections to CERS inventory and emergency plan.
Enf Action Division: Corona Fire Department
Enf Action Program: HMRRP
Enf Action Source: CERS,

Site ID: 384182
Site Name: Action Industries, Inc.
Site Address: 1120 OLYMPIC DRIVE
Site City: CORONA
Site Zip: 92881
Enf Action Date: 12-03-2013
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Corona Fire Department
Enf Action Program: HMRRP
Enf Action Source: CERS,

Affiliation:
Affiliation Type Desc: CUPA District
Entity Name: Riverside Cnty Env Health
Entity Title: Not reported
Affiliation Address: 4065 County Circle Drive, Room 104
Affiliation City: Riverside
Affiliation State: CA
Affiliation Country: Not reported

**ACTION INDUSTRIES (Continued)** **S113091904**

Affiliation Zip: 92503
Affiliation Phone: (951) 358-5055,

Affiliation Type Desc: Environmental Contact
Entity Name: Dave Gervais
Entity Title: Not reported
Affiliation Address: 1120 Olympic Drive
Affiliation City: Corona
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92881
Affiliation Phone: ,

Affiliation Type Desc: Operator
Entity Name: Action Industries, Inc.
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (951) 272-4200,

Affiliation Type Desc: Identification Signer
Entity Name: Dave Gervais
Entity Title: General Manager
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Document Preparer
Entity Name: Dave Gervais
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 1120 Olympic Drive
Affiliation City: Corona
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92881
Affiliation Phone: ,

Affiliation Type Desc: Legal Owner
Entity Name: Shawn Varble
Entity Title: Not reported
Affiliation Address: 1120 Olympic Drive

**ACTION INDUSTRIES (Continued)** **S113091904**

| | |
|---|---|
| Affiliation City: | Corona |
| Affiliation State: | CA |
| Affiliation Country: | United States |
| Affiliation Zip: | 92881 |
| Affiliation Phone: | (951) 272-4200, |
| | |
| Affiliation Type Desc: | Parent Corporation |
| Entity Name: | Action Industries, Inc. |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | , |

HWTS:

| | |
|---|---|
| Name: | ACTION INDUSTRIES |
| Address: | 1120 OLYMPIC DR |
| Address 2: | Not reported |
| City,State,Zip: | CORONA, CA 91719 |
| EPA ID: | CAL000174609 |
| Inactive Date: | Not reported |
| Create Date: | 03/04/1996 |
| Last Act Date: | Not reported |
| Mailing Name: | Not reported |
| Mailing Address: | 1120 OLYMPIC DR |
| Mailing Address 2: | Not reported |
| Mailing City,State,Zip: | CORONA, CA 928813390 |
| Owner Name: | SHAWN VARBLE |
| Owner Address: | 1120 OLYMPIC DR |
| Owner Address 2: | Not reported |
| Owner City,State,Zip: | CORONA, CA 928813390 |
| Contact Name: | RYAN LIVINGSTON |
| Contact Address: | 1120 OLYMPIC DRIVE |
| Contact Address 2: | Not reported |
| City,State,Zip: | CORONA, CA 92881 |
| Facility Status: | Active |
| Facility Type: | PERMANENT |
| Category: | STATE |
| Latitude: | 34.005642 |
| Longitude: | -117.736576 |

NAICS:

| | |
|---|---|
| EPA ID: | CAL000174609 |
| Create Date: | 2007-03-27 16:17:47.000 |
| NAICS Code: | 335222 |
| NAICS Description: | Household Refrigerator and Home Freezer Manufacturing |
| Issued EPA ID Date: | 1996-03-04 00:00:00 |
| Inactive Date: | Not reported |
| Facility Name: | ACTION INDUSTRIES |
| Facility Address: | 1120 OLYMPIC DR |
| Facility Address 2: | Not reported |
| Facility City: | CORONA |
| Facility County: | Not reported |
| Facility State: | CA |

**ACTION INDUSTRIES (Continued)** **S113091904**

Facility Zip: 917190000

---

**C21** **RIVERSIDE MEDICAL CLINIC** **RCRA NonGen / NLR** **1025872227**
**WNW** **830 MAGNOLIA AVE** **CAL000445348**
**< 1/8** **CORONA, CA 92879**
**0.098 mi.**
**519 ft.** **Site 3 of 4 in cluster C**

**Relative:** **Higher**

**Actual:** **800 ft.**

RCRA NonGen / NLR:

| | |
|---|---|
| Date Form Received by Agency: | 20190418 |
| Handler Name: | RIVERSIDE MEDICAL CLINIC |
| Handler Address: | 830 MAGNOLIA AVE |
| Handler City,State,Zip: | CORONA, CA 92879 |
| EPA ID: | CAL000445348 |
| Contact Name: | AMY MOON ULLOCK |
| Contact Address: | 7160 BROCKTON AVE 1ST FLOOR |
| Contact City,State,Zip: | RIVERSIDE, CA 92506-2614 |
| Contact Telephone: | 951-782-5139 |
| Contact Fax: | 951-328-9742 |
| Contact Email: | AMYMOON.ULLOCK@RMCPS.COM |
| Contact Title: | Not reported |
| EPA Region: | 09 |
| Land Type: | Not reported |
| Federal Waste Generator Description: | Not a generator, verified |
| Non-Notifier: | Not reported |
| Biennial Report Cycle: | Not reported |
| Accessibility: | Not reported |
| Active Site Indicator: | Handler Activities |
| State District Owner: | Not reported |
| State District: | Not reported |
| Mailing Address: | 830 MAGNOLIA AVE |
| Mailing City,State,Zip: | CORONA, CA 92879 |
| Owner Name: | RIVERSIDE MEDICAL CLINIC |
| Owner Type: | Other |
| Operator Name: | AMY MOON ULLOCK |
| Operator Type: | Other |
| Short-Term Generator Activity: | No |
| Importer Activity: | No |
| Mixed Waste Generator: | No |
| Transporter Activity: | No |
| Transfer Facility Activity: | No |
| Recycler Activity with Storage: | Yes |
| Small Quantity On-Site Burner Exemption: | No |
| Smelting Melting and Refining Furnace Exemption: | No |
| Underground Injection Control: | No |
| Off-Site Waste Receipt: | No |
| Universal Waste Indicator: | Yes |
| Universal Waste Destination Facility: | Yes |
| Federal Universal Waste: | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site State-Reg Handler: | --- |
| Federal Facility Indicator: | Not reported |
| Hazardous Secondary Material Indicator: | N |
| Sub-Part K Indicator: | Not reported |
| Commercial TSD Indicator: | No |

**RIVERSIDE MEDICAL CLINIC (Continued)** **1025872227**

| | |
|---|---|
| Treatment Storage and Disposal Type: | Not reported |
| 2018 GPRA Permit Baseline: | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | Not on the Baseline |
| Permit Renewals Workload Universe: | Not reported |
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 20190628 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | No |
| Manifest Broker: | No |
| Sub-Part P Indicator: | No |

Handler - Owner Operator:

| | |
|---|---|
| Owner/Operator Indicator: | Operator |
| Owner/Operator Name: | AMY MOON ULLOCK |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 7160 BROCKTON AVE 1ST FLOOR |
| Owner/Operator City,State,Zip: | RIVERSIDE, CA 92506-2614 |
| Owner/Operator Telephone: | 951-782-5139 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

| | |
|---|---|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | RIVERSIDE MEDICAL CLINIC |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 3660 ARLINGTON AVE |
| Owner/Operator City,State,Zip: | RIVERSIDE, CA 92506-3912 |
| Owner/Operator Telephone: | 951-683-6370 |

**RIVERSIDE MEDICAL CLINIC (Continued)** **1025872227**

Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20190418
Handler Name: RIVERSIDE MEDICAL CLINIC
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 621399
NAICS Description: OFFICES OF ALL OTHER MISCELLANEOUS HEALTH PRACTITIONERS

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

---

**C22** **RIVERSIDE MEDICAL CLINIC** **RCRA NonGen / NLR** **1025867854**
**WNW** **830 MAGNOLIA AVE** **CAL000337431**
**< 1/8** **CORONA, CA 92879**
**0.098 mi.**
**519 ft.** **Site 4 of 4 in cluster C**

**Relative:**
**Higher**

**Actual:**
**800 ft.**

RCRA NonGen / NLR:
Date Form Received by Agency: 20081023
Handler Name: RIVERSIDE MEDICAL CLINIC
Handler Address: 830 MAGNOLIA AVE
Handler City,State,Zip: CORONA, CA 92879-3128
EPA ID: CAL000337431
Contact Name: CHRISTIAN REYES
Contact Address: 3660 ARLINGTON AVE
Contact City,State,Zip: RIVERSIDE, CA 92506-3912
Contact Telephone: 951-782-5145
Contact Fax: 951-328-7911
Contact Email: CHRISTIAN.REYES@RMCPS.COM
Contact Title: Not reported
EPA Region: 09
Land Type: Not reported
Federal Waste Generator Description: Not a generator, verified
Non-Notifier: Not reported
Biennial Report Cycle: Not reported
Accessibility: Not reported
Active Site Indicator: Not reported
State District Owner: Not reported

**RIVERSIDE MEDICAL CLINIC (Continued)** **1025867854**

| | |
|---|---|
| State District: | Not reported |
| Mailing Address: | 3660 ARLINGTON AVE |
| Mailing City,State,Zip: | RIVERSIDE, CA 92506-3912 |
| Owner Name: | RIVERSIDE MEDICAL CLINIC PATIENT |
| Owner Type: | Other |
| Operator Name: | CHRISTIAN REYES |
| Operator Type: | Other |
| Short-Term Generator Activity: | No |
| Importer Activity: | No |
| Mixed Waste Generator: | No |
| Transporter Activity: | No |
| Transfer Facility Activity: | No |
| Recycler Activity with Storage: | No |
| Small Quantity On-Site Burner Exemption: | No |
| Smelting Melting and Refining Furnace Exemption: | No |
| Underground Injection Control: | No |
| Off-Site Waste Receipt: | No |
| Universal Waste Indicator: | No |
| Universal Waste Destination Facility: | No |
| Federal Universal Waste: | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site State-Reg Handler: | --- |
| Federal Facility Indicator: | Not reported |
| Hazardous Secondary Material Indicator: | N |
| Sub-Part K Indicator: | Not reported |
| Commercial TSD Indicator: | No |
| Treatment Storage and Disposal Type: | Not reported |
| 2018 GPRA Permit Baseline: | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | Not on the Baseline |
| Permit Renewals Workload Universe: | Not reported |
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 20191021 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |

**RIVERSIDE MEDICAL CLINIC (Continued)** **1025867854**

| | |
|---|---|
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | No |
| Manifest Broker: | No |
| Sub-Part P Indicator: | No |

Handler - Owner Operator:

| | |
|---|---|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | RIVERSIDE MEDICAL CLINIC PATIENT |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 3660 ARLINGTON AVE |
| Owner/Operator City,State,Zip: | RIVERSIDE, CA 92506-3912 |
| Owner/Operator Telephone: | 951-782-5145 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

| | |
|---|---|
| Owner/Operator Indicator: | Operator |
| Owner/Operator Name: | CHRISTIAN REYES |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 3660 ARLINGTON AVE |
| Owner/Operator City,State,Zip: | RIVERSIDE, CA 92506-3912 |
| Owner/Operator Telephone: | 951-782-5145 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

Historic Generators:

| | |
|---|---|
| Receive Date: | 20081023 |
| Handler Name: RIVERSIDE MEDICAL CLINIC | |
| Federal Waste Generator Description: | Not a generator, verified |
| State District Owner: | Not reported |
| Large Quantity Handler of Universal Waste: | No |
| Recognized Trader Importer: | Not reported |
| Recognized Trader Exporter: | Not reported |
| Spent Lead Acid Battery Importer: | Not reported |
| Spent Lead Acid Battery Exporter: | Not reported |
| Current Record: | Yes |
| Non Storage Recycler Activity: | Not reported |
| Electronic Manifest Broker: | Not reported |

List of NAICS Codes and Descriptions:

| | |
|---|---|
| NAICS Code: | 621493 |
| NAICS Description: | FREESTANDING AMBULATORY SURGICAL AND EMERGENCY CENTERS |

Facility Has Received Notices of Violations:

| | |
|---|---|
| Violations: | No Violations Found |

Evaluation Action Summary:

| | |
|---|---|
| Evaluations: | No Evaluations Found |

**F23**
**ENE**
**< 1/8**
**0.115 mi.**
**606 ft.**

**GNB LEASE HOLDINGS LLC**
**1131 OLYMPIC DR**
**CORONA, CA 92881**

**Site 1 of 3 in cluster F**

**RCRA-SQG** **1027095411**
**CAR000330175**

**Relative:**
**Lower**

**Actual:**
**755 ft.**

RCRA-SQG:

| | | |
|---|---|---|
| Date Form Received by Agency: | | 20211019 |
| Handler Name: | GNB LEASE HOLDINGS LLC | |
| Handler Address: | | 1131 OLYMPIC DR |
| Handler City,State,Zip: | | CORONA, CA 92881 |
| EPA ID: | | CAR000330175 |
| Contact Name: | | JOSEPH A MENDES |
| Contact Address: | | OLYMPIC DR |
| Contact City,State,Zip: | | CORONA, CA 92881 |
| Contact Telephone: | | 562-755-9205 |
| Contact Fax: | | Not reported |
| Contact Email: | | JOE.MENDES@GNB.COM |
| Contact Title: | | SERVICE MGR |
| EPA Region: | | 09 |
| Land Type: | | Private |
| Federal Waste Generator Description: | | Small Quantity Generator |
| Non-Notifier: | | Not reported |
| Biennial Report Cycle: | | Not reported |
| Accessibility: | | Not reported |
| Active Site Indicator: | | Handler Activities |
| State District Owner: | | Not reported |
| State District: | | Not reported |
| Mailing Address: | | OLYMPIC DR |
| Mailing City,State,Zip: | | CORONA, CA 92881 |
| Owner Name: | | 1131 CORONA STORAGE LLC |
| Owner Type: | | Private |
| Operator Name: | | GNB LEASE HOLDINGS LLC |
| Operator Type: | | Private |
| Short-Term Generator Activity: | | No |
| Importer Activity: | | No |
| Mixed Waste Generator: | | No |
| Transporter Activity: | | No |
| Transfer Facility Activity: | | No |
| Recycler Activity with Storage: | | No |
| Small Quantity On-Site Burner Exemption: | | No |
| Smelting Melting and Refining Furnace Exemption: | | No |
| Underground Injection Control: | | No |
| Off-Site Waste Receipt: | | No |
| Universal Waste Indicator: | | No |
| Universal Waste Destination Facility: | | No |
| Federal Universal Waste: | | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | | Not reported |
| Active Site State-Reg Handler: | | --- |
| Federal Facility Indicator: | | Not reported |
| Hazardous Secondary Material Indicator: | | N |
| Sub-Part K Indicator: | | Not reported |
| Commercial TSD Indicator: | | No |
| Treatment Storage and Disposal Type: | | Not reported |
| 2018 GPRA Permit Baseline: | | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | | Not on the Baseline |
| Permit Renewals Workload Universe: | | Not reported |

**GNB LEASE HOLDINGS LLC (Continued)** **1027095411**

| | |
|---|---|
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 20211028 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | No |
| Manifest Broker: | No |
| Sub-Part P Indicator: | No |

Hazardous Waste Summary:

| | |
|---|---|
| Waste Code: | D001 |
| Waste Description: | IGNITABLE WASTE |
| Waste Code: | D002 |
| Waste Description: | CORROSIVE WASTE |
| Waste Code: | D008 |
| Waste Description: | LEAD |

Handler - Owner Operator:

| | |
|---|---|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | 1131 CORONA STORAGE LLC |
| Legal Status: | Private |
| Date Became Current: | 20170922 |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 27611 LA PAZ RD |
| Owner/Operator City,State,Zip: | LAGUNA NIGUEL, CA 92677 |
| Owner/Operator Telephone: | 626-589-8003 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | MZHANG@ALCOASTORAGE.COM |
| Owner/Operator Indicator: | Operator |

**GNB LEASE HOLDINGS LLC (Continued)** **1027095411**

| | |
|---|---|
| Owner/Operator Name: | GNB LEASE HOLDINGS LLC |
| Legal Status: | Private |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 1131 OLYMPIC DR |
| Owner/Operator City,State,Zip: | CORONA, CA 92881 |
| Owner/Operator Telephone: | 562-755-9205 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | JOE.MENDES@GNB.COM |

Historic Generators:

| | |
|---|---|
| Receive Date: | 20211019 |
| Handler Name: | GNB LEASE HOLDINGS LLC |
| Federal Waste Generator Description: | Small Quantity Generator |
| State District Owner: | Not reported |
| Large Quantity Handler of Universal Waste: | No |
| Recognized Trader Importer: | No |
| Recognized Trader Exporter: | No |
| Spent Lead Acid Battery Importer: | No |
| Spent Lead Acid Battery Exporter: | No |
| Current Record: | Yes |
| Non Storage Recycler Activity: | No |
| Electronic Manifest Broker: | No |

List of NAICS Codes and Descriptions:

| | |
|---|---|
| NAICS Code: | 335911 |
| NAICS Description: | STORAGE BATTERY MANUFACTURING |

Facility Has Received Notices of Violations:

| | |
|---|---|
| Violations: | No Violations Found |

Evaluation Action Summary:

| | |
|---|---|
| Evaluations: | No Evaluations Found |

---

**G24** **FACTORY CONNECTION INC** **CERS HAZ WASTE** **S127124968**
**NE** **1701 RIMPAU AVE STE 102** **CERS** **N/A**
**< 1/8** **CORONA, CA 92881** **HWTS**
**0.123 mi.**
**649 ft.** **Site 1 of 4 in cluster G**

**Relative:**
**Lower**

**Actual:**
**747 ft.**

CERS HAZ WASTE:

| | |
|---|---|
| Name: | FACTORY CONNECTION INC |
| Address: | 1701 RIMPAU AVE STE 102 |
| City,State,Zip: | CORONA, CA 92881 |
| Site ID: | 571865 |
| CERS ID: | 10863847 |
| CERS Description: | Hazardous Waste Generator |

CERS:

| | |
|---|---|
| Name: | FACTORY CONNECTION INC |
| Address: | 1701 RIMPAU AVE STE 102 |
| City,State,Zip: | CORONA, CA 92881 |
| Site ID: | 571865 |

**FACTORY CONNECTION INC (Continued)** **S127124968**

CERS ID: 10863847
CERS Description: Chemical Storage Facilities

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-21-2021
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Riverside County Department of Env Health
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-06-2021
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No violations
Eval Division: Corona Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Affiliation:
Affiliation Type Desc: Document Preparer
Entity Name: Steve Ross
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Operator
Entity Name: Richard D Zielfelder III
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (603) 664-2221,

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 34 Commerce Way
Affiliation City: Barrington
Affiliation State: NH
Affiliation Country: Not reported
Affiliation Zip: 03825
Affiliation Phone: ,

Affiliation Type Desc: Parent Corporation
Entity Name: Factory Connection Inc
Entity Title: Not reported
Affiliation Address: Not reported

**FACTORY CONNECTION INC (Continued)** **S127124968**

Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: CUPA District
Entity Name: Riverside Cnty Env Health
Entity Title: Not reported
Affiliation Address: 4065 County Circle Drive, Room 104
Affiliation City: Riverside
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92503
Affiliation Phone: (951) 358-5055,

Affiliation Type Desc: Identification Signer
Entity Name: Steve Ross
Entity Title: Director HR
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Legal Owner
Entity Name: Richard D Zielfelder III
Entity Title: Not reported
Affiliation Address: 34 Commerce Way
Affiliation City: Barrington
Affiliation State: NH
Affiliation Country: United States
Affiliation Zip: 03825
Affiliation Phone: (603) 664-2221,

Affiliation Type Desc: Environmental Contact
Entity Name: David J Scarponi
Entity Title: Not reported
Affiliation Address: 1701 Rimpau Ave Ste 102
Affiliation City: Corona
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92881
Affiliation Phone: ,

HWTS:
Name: FACTORY CONNECTION INC
Address: 1701 RIMPAU AVE STE 102
Address 2: Not reported
City,State,Zip: CORONA, CA 92881
EPA ID: CAL000459624
Inactive Date: Not reported
Create Date: 01/26/2021
Last Act Date: Not reported
Mailing Name: Not reported

**FACTORY CONNECTION INC (Continued)** **S127124968**

| | |
|---|---|
| Mailing Address: | 34 COMMERCE WAY |
| Mailing Address 2: | Not reported |
| Mailing City,State,Zip: | BARRINGTON, NH 3825 |
| Owner Name: | RICHARD D. ZIELFELDER III |
| Owner Address: | 34 COMMERCE WAY |
| Owner Address 2: | Not reported |
| Owner City,State,Zip: | BARRINGTON, NH 38253544 |
| Contact Name: | DAVID J SCARPONI |
| Contact Address: | 1701 RIMPAU AVE |
| Contact Address 2: | Not reported |
| City,State,Zip: | CORONA, CA 92881 |
| Facility Status: | Active |
| Facility Type: | PERMANENT |
| Category: | STATE |
| Latitude: | 33.86108 |
| Longitude: | -117.544513 |

NAICS:

| | |
|---|---|
| EPA ID: | CAL000459624 |
| Create Date: | 2021-01-26 11:10:57.023 |
| NAICS Code: | 811490 |
| NAICS Description: | Other Personal and Household Goods Repair and Maintenance |
| Issued EPA ID Date: | 2021-01-26 11:10:57.01700 |
| Inactive Date: | Not reported |
| Facility Name: | FACTORY CONNECTION INC |
| Facility Address: | 1701 RIMPAU AVE STE 102 |
| Facility Address 2: | Not reported |
| Facility City: | CORONA |
| Facility County: | Not reported |
| Facility State: | CA |
| Facility Zip: | 92881 |

---

**G25** **FACTORY CONNECTION INC** **RCRA NonGen / NLR** **1026722553**
**NE** **1701 RIMPAU AVE STE 102** **CAL000459624**
**< 1/8** **CORONA, CA 92881**
**0.123 mi.**
**649 ft.** **Site 2 of 4 in cluster G**

**Relative:**
**Lower**

**Actual:**
**747 ft.**

RCRA NonGen / NLR:

| | |
|---|---|
| Date Form Received by Agency: | 20210126 |
| Handler Name: | FACTORY CONNECTION INC |
| Handler Address: | 1701 RIMPAU AVE STE 102 |
| Handler City,State,Zip: | CORONA, CA 92881 |
| EPA ID: | CAL000459624 |
| Contact Name: | DAVID SCARPONI |
| Contact Address: | 1701 RIMPAU AVE STE 102 |
| Contact City,State,Zip: | CORONA, CA 92881 |
| Contact Telephone: | 951-549-9526 |
| Contact Fax: | Not reported |
| Contact Email: | DJ@FACTORYCONNECTION.COM |
| Contact Title: | Not reported |
| EPA Region: | 09 |
| Land Type: | Not reported |
| Federal Waste Generator Description: | Not a generator, verified |
| Non-Notifier: | Not reported |
| Biennial Report Cycle: | Not reported |
| Accessibility: | Not reported |

**FACTORY CONNECTION INC (Continued)** **1026722553**

| | |
|---|---|
| Active Site Indicator: | Not reported |
| State District Owner: | Not reported |
| State District: | Not reported |
| Mailing Address: | 34 COMMERCE WAY |
| Mailing City,State,Zip: | BARRINGTON, NH 03825 |
| Owner Name: | FACTORY CONECTION INC |
| Owner Type: | Other |
| Operator Name: | DAVID SCARPONI |
| Operator Type: | Other |
| Short-Term Generator Activity: | No |
| Importer Activity: | No |
| Mixed Waste Generator: | No |
| Transporter Activity: | No |
| Transfer Facility Activity: | No |
| Recycler Activity with Storage: | No |
| Small Quantity On-Site Burner Exemption: | No |
| Smelting Melting and Refining Furnace Exemption: | No |
| Underground Injection Control: | No |
| Off-Site Waste Receipt: | No |
| Universal Waste Indicator: | No |
| Universal Waste Destination Facility: | No |
| Federal Universal Waste: | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site State-Reg Handler: | --- |
| Federal Facility Indicator: | Not reported |
| Hazardous Secondary Material Indicator: | N |
| Sub-Part K Indicator: | Not reported |
| Commercial TSD Indicator: | No |
| Treatment Storage and Disposal Type: | Not reported |
| 2018 GPRA Permit Baseline: | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | Not on the Baseline |
| Permit Renewals Workload Universe: | Not reported |
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 20210226 |

**FACTORY CONNECTION INC (Continued)** **1026722553**

| | |
|---|---|
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | No |
| Manifest Broker: | No |
| Sub-Part P Indicator: | No |

Handler - Owner Operator:

| | |
|---|---|
| Owner/Operator Indicator: | Operator |
| Owner/Operator Name: | DAVID SCARPONI |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 1701 RIMPAU AVE STE 102 |
| Owner/Operator City,State,Zip: | CORONA, CA 92881 |
| Owner/Operator Telephone: | 951-549-9526 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

| | |
|---|---|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | FACTORY CONECTION INC |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 34 COMMERCE WAY |
| Owner/Operator City,State,Zip: | BARRINGTON, NH 03825 |
| Owner/Operator Telephone: | 603-664-2221 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

Historic Generators:

| | |
|---|---|
| Receive Date: | 20210126 |
| Handler Name: | FACTORY CONNECTION INC |
| Federal Waste Generator Description: | Not a generator, verified |
| State District Owner: | Not reported |
| Large Quantity Handler of Universal Waste: | No |
| Recognized Trader Importer: | No |
| Recognized Trader Exporter: | No |
| Spent Lead Acid Battery Importer: | No |
| Spent Lead Acid Battery Exporter: | No |
| Current Record: | Yes |
| Non Storage Recycler Activity: | No |
| Electronic Manifest Broker: | No |

List of NAICS Codes and Descriptions:

| | |
|---|---|
| NAICS Code: | 811490 |
| NAICS Description: | OTHER PERSONAL AND HOUSEHOLD GOODS REPAIR AND MAINTENANCE |

Facility Has Received Notices of Violations:

| | |
|---|---|
| Violations: | No Violations Found |

**FACTORY CONNECTION INC (Continued)** **1026722553**

Evaluation Action Summary:
Evaluations: No Evaluations Found

---

**G26** **COUTS HEATING & COOLING INC** **RCRA NonGen / NLR** **1024825574**
**NE** **1693 RIMPAU AVE** **CAL000351489**
**< 1/8** **CORONA, CA 92881**
**0.124 mi.**
**655 ft.** **Site 3 of 4 in cluster G**

**Relative:** RCRA NonGen / NLR:
**Lower**

**Actual:**
**747 ft.**

| | |
|---|---|
| Date Form Received by Agency: | 20100406 |
| Handler Name: | COUTS HEATING & COOLING INC |
| Handler Address: | 1693 RIMPAU AVE |
| Handler City,State,Zip: | CORONA, CA 92881-3202 |
| EPA ID: | CAL000351489 |
| Contact Name: | JILL HENLEY |
| Contact Address: | 1693 RIMPAU AVE |
| Contact City,State,Zip: | CORONA, CA 92881 |
| Contact Telephone: | 951-278-5560 |
| Contact Fax: | 951-271-3317 |
| Contact Email: | HENLEY@COUTS.COM |
| Contact Title: | Not reported |
| EPA Region: | 09 |
| Land Type: | Not reported |
| Federal Waste Generator Description: | Not a generator, verified |
| Non-Notifier: | Not reported |
| Biennial Report Cycle: | Not reported |
| Accessibility: | Not reported |
| Active Site Indicator: | Handler Activities |
| State District Owner: | Not reported |
| State District: | Not reported |
| Mailing Address: | 1693 RIMPAU AVE |
| Mailing City,State,Zip: | CORONA, CA 92881-3202 |
| Owner Name: | COUTS HEATING & COOLING INC |
| Owner Type: | Other |
| Operator Name: | JILL HENLEY |
| Operator Type: | Other |
| Short-Term Generator Activity: | No |
| Importer Activity: | No |
| Mixed Waste Generator: | No |
| Transporter Activity: | No |
| Transfer Facility Activity: | No |
| Recycler Activity with Storage: | No |
| Small Quantity On-Site Burner Exemption: | No |
| Smelting Melting and Refining Furnace Exemption: | No |
| Underground Injection Control: | No |
| Off-Site Waste Receipt: | No |
| Universal Waste Indicator: | Yes |
| Universal Waste Destination Facility: | Yes |
| Federal Universal Waste: | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site State-Reg Handler: | --- |
| Federal Facility Indicator: | Not reported |
| Hazardous Secondary Material Indicator: | N |

**COUTS HEATING & COOLING INC (Continued)** **1024825574**

| | |
|---|---|
| Sub-Part K Indicator: | Not reported |
| Commercial TSD Indicator: | No |
| Treatment Storage and Disposal Type: | Not reported |
| 2018 GPRA Permit Baseline: | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | Not on the Baseline |
| Permit Renewals Workload Universe: | Not reported |
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 20180905 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | No |
| Manifest Broker: | No |
| Sub-Part P Indicator: | No |

Handler - Owner Operator:

| | |
|---|---|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | COUTS HEATING & COOLING INC |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 1693 RIMPAU AVE |
| Owner/Operator City,State,Zip: | CORONA, CA 92881-3202 |
| Owner/Operator Telephone: | 951-278-5560 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

| | |
|---|---|
| Owner/Operator Indicator: | Operator |
| Owner/Operator Name: | JILL HENLEY |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 1693 RIMPAU AVE |

**COUTS HEATING & COOLING INC (Continued)** **1024825574**

Owner/Operator City,State,Zip: CORONA, CA 92881
Owner/Operator Telephone: 951-278-5560
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20100406
Handler Name: COUTS HEATING & COOLING INC
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 23511
NAICS Description: PLUMBING, HEATING, AND AIR-CONDITIONING CONTRACTORS

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

---

**G27** **COUTS HEATING & COOLING INC** **CERS HAZ WASTE** **S113467947**
**NE** **1693 RIMPAU AVE** **HAZNET** **N/A**
**< 1/8** **CORONA, CA 92881** **NPDES**
**0.124 mi.** **CIWQS**
**655 ft.** **Site 4 of 4 in cluster G** **CERS**
**HWTS**

**Relative:**
**Lower**

**Actual:**
**747 ft.**

CERS HAZ WASTE:
Name: COUTS HEATING & COOLING, INC
Address: 1693 RIMPAU AVE
City,State,Zip: CORONA, CA 92879
Site ID: 185263
CERS ID: 10556905
CERS Description: Hazardous Waste Generator

HAZNET:
Name: COUTS HEATING & COOLING INC
Address: 1693 RIMPAU AVE
Address 2: Not reported
City,State,Zip: CORONA, CA 928813202
Contact: JILL HENLEY
Telephone: 9512785560
Mailing Name: Not reported
Mailing Address: 1693 RIMPAU AVE

**COUTS HEATING & COOLING INC (Continued)** **S113467947**

| | |
|---|---|
| Year: | 2018 |
| Gepaid: | CAL000351489 |
| TSD EPA ID: | AZR000520304 |
| CA Waste Code: | 331 - Off-specification, aged or surplus organics |
| Disposal Method: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Tons: | 0.14190 |
| Year: | 2018 |
| Gepaid: | CAL000351489 |
| TSD EPA ID: | CAD028409019 |
| CA Waste Code: | 331 - Off-specification, aged or surplus organics |
| Disposal Method: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Tons: | 0.19470 |
| Year: | 2018 |
| Gepaid: | CAL000351489 |
| TSD EPA ID: | AZR000520304 |
| CA Waste Code: | 352 - Other organic solids |
| Disposal Method: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Tons: | 0.03250 |
| Year: | 2018 |
| Gepaid: | CAL000351489 |
| TSD EPA ID: | CAD008252405 |
| CA Waste Code: | 331 - Off-specification, aged or surplus organics |
| Disposal Method: | H061 - Fuel Blending Prior To Energy Recovery At Another Site |
| Tons: | 0.09250 |
| Year: | 2018 |
| Gepaid: | CAL000351489 |
| TSD EPA ID: | CAD028409019 |
| CA Waste Code: | 141 - Off-specification, aged or surplus inorganics |
| Disposal Method: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Tons: | 0.01668 |
| Year: | 2018 |
| Gepaid: | CAL000351489 |
| TSD EPA ID: | AZR000520304 |
| CA Waste Code: | 135 - Unspecified aqueous solution |
| Disposal Method: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Tons: | 0.16800 |
| Year: | 2018 |
| Gepaid: | CAL000351489 |
| TSD EPA ID: | CAT080013352 |
| CA Waste Code: | 221 - Waste oil and mixed oil |
| Disposal Method: | H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect |
| Tons: | 0.00000 |
| Year: | 2018 |
| Gepaid: | CAL000351489 |

**COUTS HEATING & COOLING INC (Continued)** **S113467947**

TSD EPA ID: CAT080013352
CA Waste Code: 134 - Aqueous solution with total organic residues less than 10 percent
Disposal Method: H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons: 0.33600

Year: 2016
Gepaid: CAL000351489
TSD EPA ID: CAT080013352
CA Waste Code: 135 - Unspecified aqueous solution
Disposal Method: H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons: 0.756

Year: 2016
Gepaid: CAL000351489
TSD EPA ID: CAT080013352
CA Waste Code: 343 - Unspecified organic liquid mixture
Disposal Method: H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons: 0.034

Click this hyperlink while viewing on your computer to access
7 additional CA HAZNET: record(s) in the EDR Site Report.

Additional Info:
Year: 2010
Gen EPA ID: CAL000351489

Shipment Date: 20100607
Creation Date: 9/10/2010 18:30:18
Receipt Date: 20100616
Manifest ID: 007110336JJK
Trans EPA ID: CAD028277036
Trans Name: ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAT080013352
Trans Name: DEMENNO / KERDOON
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 222 - Oil/water separation sludge
RCRA Code: F002
Meth Code: H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons: 0.22935
Waste Quantity: 55
Quantity Unit: G
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20100607
Creation Date: 9/10/2010 18:30:18

**COUTS HEATING & COOLING INC (Continued)** **S113467947**

| | |
|---|---|
| Receipt Date: | 20100616 |
| Manifest ID: | 007110336JJK |
| Trans EPA ID: | CAD028277036 |
| Trans Name: | ASBURY ENVIRONMENTAL SERVICES |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080013352 |
| Trans Name: | DEMENNO / KERDOON |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 343 - Unspecified organic liquid mixture |
| RCRA Code: | D018 |
| Meth Code: | H061 - Fuel Blending Prior To Energy Recovery At Another Site |
| Quantity Tons: | 0.153 |
| Waste Quantity: | 45 |
| Quantity Unit: | G |
| Additional Code 1: | D001 |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20100607 |
| Creation Date: | 9/10/2010 18:30:18 |
| Receipt Date: | 20100616 |
| Manifest ID: | 007110336JJK |
| Trans EPA ID: | CAD028277036 |
| Trans Name: | ASBURY ENVIRONMENTAL SERVICES |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080013352 |
| Trans Name: | DEMENNO / KERDOON |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 135 - Unspecified aqueous solution |
| RCRA Code: | Not reported |
| Meth Code: | H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect |
| Quantity Tons: | 0.063 |
| Waste Quantity: | 15 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2015 |
| Gen EPA ID: | CAL000351489 |

| | |
|---|---|
| Shipment Date: | 20150717 |
| Creation Date: | 10/1/2015 22:15:21 |
| Receipt Date: | 20150721 |
| Manifest ID: | 008218609FLE |
| Trans EPA ID: | CAR000047613 |
| Trans Name: | CAL WEST ENVIRONMENTAL SERVICES INC |

**COUTS HEATING & COOLING INC (Continued)** **S113467947**

| | |
|---|---|
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080013352 |
| Trans Name: | DEMENNO/KERDOON |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 221 - Waste oil and mixed oil |
| RCRA Code: | Not reported |
| Meth Code: | H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect |
| Quantity Tons: | 0.114 |
| Waste Quantity: | 30 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20150626 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 008218509FLE |
| Trans EPA ID: | CAR000047613 |
| Trans Name: | CAL WEST ENVIRONMENTAL SERVICES INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD028409019 |
| Trans Name: | CROSBY & OVERTON INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 331 - Off-specification, aged, or surplus organics |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.5 |
| Waste Quantity: | 1000 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20150626 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 008218509FLE |
| Trans EPA ID: | CAR000047613 |
| Trans Name: | CAL WEST ENVIRONMENTAL SERVICES INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD028409019 |
| Trans Name: | CROSBY & OVERTON INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 551 - Laboratory waste chemicals 561 Detergent and soap |

**COUTS HEATING & COOLING INC (Continued)** **S113467947**

| | |
|---|---|
| RCRA Code: | D002 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.01251 |
| Waste Quantity: | 3 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20150626 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 008218509FLE |
| Trans EPA ID: | CAR000047613 |
| Trans Name: | CAL WEST ENVIRONMENTAL SERVICES INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD028409019 |
| Trans Name: | CROSBY & OVERTON INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 551 - Laboratory waste chemicals 561 Detergent and soap |
| RCRA Code: | F002 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.06255 |
| Waste Quantity: | 15 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20150626 |
| Creation Date: | 9/23/2015 22:15:22 |
| Receipt Date: | 20150630 |
| Manifest ID: | 008218508FLE |
| Trans EPA ID: | CAR000047613 |
| Trans Name: | CAL WEST ENVIRONMENTAL SERVICES INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080013352 |
| Trans Name: | DEMENNO/KERDOON |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 221 - Waste oil and mixed oil |
| RCRA Code: | Not reported |
| Meth Code: | H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect |
| Quantity Tons: | 1.007 |
| Waste Quantity: | 265 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |

**COUTS HEATING & COOLING INC (Continued)** **S113467947**

| | |
|---|---|
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20150626 |
| Creation Date: | 9/22/2015 22:15:56 |
| Receipt Date: | 20150702 |
| Manifest ID: | 008218509FLE |
| Trans EPA ID: | CAR000047613 |
| Trans Name: | CAL WEST ENVIRONMENTAL SERVICES INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD028409019 |
| Trans Name: | CROSBY & OVERTON INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 141 - Off-specification, aged, or surplus inorganics |
| RCRA Code: | D001 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.0417 |
| Waste Quantity: | 10 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20150626 |
| Creation Date: | 9/22/2015 22:15:56 |
| Receipt Date: | 20150702 |
| Manifest ID: | 008218509FLE |
| Trans EPA ID: | CAR000047613 |
| Trans Name: | CAL WEST ENVIRONMENTAL SERVICES INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD028409019 |
| Trans Name: | CROSBY & OVERTON INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 331 - Off-specification, aged, or surplus organics |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.5 |
| Waste Quantity: | 1000 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20150626 |
| Creation Date: | 9/22/2015 22:15:56 |

**COUTS HEATING & COOLING INC (Continued)** **S113467947**

| | |
|---|---|
| Receipt Date: | 20150702 |
| Manifest ID: | 008218509FLE |
| Trans EPA ID: | CAR000047613 |
| Trans Name: | CAL WEST ENVIRONMENTAL SERVICES INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD028409019 |
| Trans Name: | CROSBY & OVERTON INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 331 - Off-specification, aged, or surplus organics |
| RCRA Code: | D001 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.0066 |
| Waste Quantity: | 2 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20150626 |
| Creation Date: | 9/22/2015 22:15:56 |
| Receipt Date: | 20150702 |
| Manifest ID: | 008218509FLE |
| Trans EPA ID: | CAR000047613 |
| Trans Name: | CAL WEST ENVIRONMENTAL SERVICES INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD028409019 |
| Trans Name: | CROSBY & OVERTON INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 214 - Unspecified solvent mixture |
| RCRA Code: | F003 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.5 |
| Waste Quantity: | 1000 |
| Quantity Unit: | P |
| Additional Code 1: | D001 |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20150626 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 008218509FLE |
| Trans EPA ID: | CAR000047613 |
| Trans Name: | CAL WEST ENVIRONMENTAL SERVICES INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD028409019 |

**COUTS HEATING & COOLING INC (Continued)** **S113467947**

| | |
|---|---|
| Trans Name: | CROSBY & OVERTON INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 141 - Off-specification, aged, or surplus inorganics |
| RCRA Code: | D002 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.1251 |
| Waste Quantity: | 30 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2016 |
| Gen EPA ID: | CAL000351489 |
| Shipment Date: | 20150717 |
| Creation Date: | 10/1/2015 22:15:21 |
| Receipt Date: | 20150721 |
| Manifest ID: | 008218609FLE |
| Trans EPA ID: | CAR000047613 |
| Trans Name: | CAL WEST ENVIRONMENTAL SERVICES INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080013352 |
| Trans Name: | DEMENNO/KERDOON |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 221 - Waste oil and mixed oil |
| RCRA Code: | Not reported |
| Meth Code: | H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect |
| Quantity Tons: | 0.114 |
| Waste Quantity: | 30 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| Shipment Date: | 20150626 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 008218509FLE |
| Trans EPA ID: | CAR000047613 |
| Trans Name: | CAL WEST ENVIRONMENTAL SERVICES INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD028409019 |
| Trans Name: | CROSBY & OVERTON INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |

**COUTS HEATING & COOLING INC (Continued)** **S113467947**

| | |
|---|---|
| Waste Code Description: | 331 - Off-specification, aged, or surplus organics |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.5 |
| Waste Quantity: | 1000 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20150626 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 008218509FLE |
| Trans EPA ID: | CAR000047613 |
| Trans Name: | CAL WEST ENVIRONMENTAL SERVICES INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD028409019 |
| Trans Name: | CROSBY & OVERTON INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 551 - Laboratory waste chemicals 561 Detergent and soap |
| RCRA Code: | D002 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.01251 |
| Waste Quantity: | 3 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20150626 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 008218509FLE |
| Trans EPA ID: | CAR000047613 |
| Trans Name: | CAL WEST ENVIRONMENTAL SERVICES INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD028409019 |
| Trans Name: | CROSBY & OVERTON INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 551 - Laboratory waste chemicals 561 Detergent and soap |
| RCRA Code: | F002 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.06255 |
| Waste Quantity: | 15 |
| Quantity Unit: | G |

**COUTS HEATING & COOLING INC (Continued)** **S113467947**

| | |
|---|---|
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20150626 |
| Creation Date: | 9/23/2015 22:15:22 |
| Receipt Date: | 20150630 |
| Manifest ID: | 008218508FLE |
| Trans EPA ID: | CAR000047613 |
| Trans Name: | CAL WEST ENVIRONMENTAL SERVICES INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080013352 |
| Trans Name: | DEMENNO/KERDOON |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 221 - Waste oil and mixed oil |
| RCRA Code: | Not reported |
| Meth Code: | H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect |
| Quantity Tons: | 1.007 |
| Waste Quantity: | 265 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20150626 |
| Creation Date: | 9/22/2015 22:15:56 |
| Receipt Date: | 20150702 |
| Manifest ID: | 008218509FLE |
| Trans EPA ID: | CAR000047613 |
| Trans Name: | CAL WEST ENVIRONMENTAL SERVICES INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD028409019 |
| Trans Name: | CROSBY & OVERTON INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 141 - Off-specification, aged, or surplus inorganics |
| RCRA Code: | D001 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.0417 |
| Waste Quantity: | 10 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20150626 |

**COUTS HEATING & COOLING INC (Continued)** **S113467947**

| | |
|---|---|
| Creation Date: | 9/22/2015 22:15:56 |
| Receipt Date: | 20150702 |
| Manifest ID: | 008218509FLE |
| Trans EPA ID: | CAR000047613 |
| Trans Name: | CAL WEST ENVIRONMENTAL SERVICES INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD028409019 |
| Trans Name: | CROSBY & OVERTON INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 331 - Off-specification, aged, or surplus organics |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.5 |
| Waste Quantity: | 1000 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20150626 |
| Creation Date: | 9/22/2015 22:15:56 |
| Receipt Date: | 20150702 |
| Manifest ID: | 008218509FLE |
| Trans EPA ID: | CAR000047613 |
| Trans Name: | CAL WEST ENVIRONMENTAL SERVICES INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD028409019 |
| Trans Name: | CROSBY & OVERTON INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 331 - Off-specification, aged, or surplus organics |
| RCRA Code: | D001 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.0066 |
| Waste Quantity: | 2 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20150626 |
| Creation Date: | 9/22/2015 22:15:56 |
| Receipt Date: | 20150702 |
| Manifest ID: | 008218509FLE |
| Trans EPA ID: | CAR000047613 |
| Trans Name: | CAL WEST ENVIRONMENTAL SERVICES INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |

**COUTS HEATING & COOLING INC (Continued)** **S113467947**

| | |
|---|---|
| TSDF EPA ID: | CAD028409019 |
| Trans Name: | CROSBY & OVERTON INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 214 - Unspecified solvent mixture |
| RCRA Code: | F003 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.5 |
| Waste Quantity: | 1000 |
| Quantity Unit: | P |
| Additional Code 1: | D001 |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20150626 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 008218509FLE |
| Trans EPA ID: | CAR000047613 |
| Trans Name: | CAL WEST ENVIRONMENTAL SERVICES INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD028409019 |
| Trans Name: | CROSBY & OVERTON INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 141 - Off-specification, aged, or surplus inorganics |
| RCRA Code: | D002 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.1251 |
| Waste Quantity: | 30 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

NPDES:

| | |
|---|---|
| Name: | COUTS HEATING AND COOLING INC |
| Address: | 1693 RIMPAU AVENUE |
| City,State,Zip: | CORONA, CA 92881 |
| Facility Status: | Not reported |
| NPDES Number: | Not reported |
| Region: | Not reported |
| Agency Number: | Not reported |
| Regulatory Measure ID: | Not reported |
| Place ID: | Not reported |
| Order Number: | Not reported |
| WDID: | 8 33I027687 |
| Regulatory Measure Type: | Industrial |
| Program Type: | Not reported |
| Adoption Date Of Regulatory Measure: | Not reported |

**COUTS HEATING & COOLING INC (Continued)** **S113467947**

| | |
|---|---|
| Effective Date Of Regulatory Measure: | Not reported |
| Termination Date Of Regulatory Measure: | Not reported |
| Expiration Date Of Regulatory Measure: | Not reported |
| Discharge Address: | Not reported |
| Discharge Name: | Not reported |
| Discharge City: | Not reported |
| Discharge State: | Not reported |
| Discharge Zip: | Not reported |
| Status: | Active |
| Status Date: | 04/12/2018 |
| Operator Name: | Couts Heating and Cooling Inc |
| Operator Address: | Not reported |
| Operator City: | Not reported |
| Operator State: | Not reported |
| Operator Zip: | Not reported |

| | |
|---|---|
| Name: | COUTS HEATING AND COOLING INC |
| Address: | 1693 RIMPAU AVENUE |
| City,State,Zip: | CORONA, CA 92881 |
| Facility Status: | Active |
| NPDES Number: | CAS000001 |
| Region: | 8 |
| Agency Number: | 0 |
| Regulatory Measure ID: | 496516 |
| Place ID: | Not reported |
| Order Number: | 97-03-DWQ |
| WDID: | 8 33I027687 |
| Regulatory Measure Type: | Enrollee |
| Program Type: | Industrial |
| Adoption Date Of Regulatory Measure: | Not reported |
| Effective Date Of Regulatory Measure: | 04/12/2018 |
| Termination Date Of Regulatory Measure: | Not reported |
| Expiration Date Of Regulatory Measure: | Not reported |
| Discharge Address: | 1693 Rimpau Avenue |
| Discharge Name: | Couts Heating and Cooling Inc |
| Discharge City: | Corona |
| Discharge State: | California |
| Discharge Zip: | 92881 |
| Status: | Not reported |
| Status Date: | Not reported |
| Operator Name: | Not reported |
| Operator Address: | Not reported |
| Operator City: | Not reported |
| Operator State: | Not reported |
| Operator Zip: | Not reported |

CIWQS:

| | |
|---|---|
| Name: | COUTS HEATING AND COOLING INC |
| Address: | 1693 RIMPAU AVENUE |
| City,State,Zip: | CORONA, CA 92881 |
| Agency: | Couts Heating and Cooling Inc |
| Agency Address: | 1693 Rimpau Avenue, Corona, CA 92881 |
| Place/Project Type: | Industrial - Sheet Metal Work |
| SIC/NAICS: | 3444 |
| Region: | 8 |
| Program: | INDSTW |
| Regulatory Measure Status: | Active |

**COUTS HEATING & COOLING INC (Continued)** **S113467947**

| | |
|---|---|
| Regulatory Measure Type: | Storm water industrial |
| Order Number: | 2014-0057-DWQ |
| WDID: | 8 33I027687 |
| NPDES Number: | CAS000001 |
| Adoption Date: | Not reported |
| Effective Date: | 04/12/2018 |
| Termination Date: | Not reported |
| Expiration/Review Date: | Not reported |
| Design Flow: | Not reported |
| Major/Minor: | Not reported |
| Complexity: | Not reported |
| TTWQ: | Not reported |
| Enforcement Actions within 5 years: | 0 |
| Violations within 5 years: | 0 |
| Latitude: | 33.86031 |
| Longitude: | -117.54408 |

CERS:

| | |
|---|---|
| Name: | COUTS HEATING AND COOLING INC |
| Address: | 1693 RIMPAU AVENUE |
| City,State,Zip: | CORONA, CA 92881 |
| Site ID: | 529934 |
| CERS ID: | 863099 |
| CERS Description: | Industrial Facility Storm Water |

Affiliation:

| | |
|---|---|
| Affiliation Type Desc: | Owner/Operator |
| Entity Name: | Couts Heating and Cooling Inc |
| Entity Title: | Operator |
| Affiliation Address: | 1693 Rimpau Avenue |
| Affiliation City: | Corona |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 92881 |
| Affiliation Phone: | , |

| | |
|---|---|
| Name: | COUTS HEATING & COOLING, INC |
| Address: | 1693 RIMPAU AVE |
| City,State,Zip: | CORONA, CA 92879 |
| Site ID: | 185263 |
| CERS ID: | 10556905 |
| CERS Description: | Chemical Storage Facilities |

Violations:

| | |
|---|---|
| Site ID: | 185263 |
| Site Name: | Couts Heating & Cooling, Inc |
| Violation Date: | 03-01-2019 |
| Citation: | Un-Specified |
| Violation Description: | Business Plan Program - Operations/Maintenance - General Local Ordinance |
| Violation Notes: | No spill kit on site. Obtain spill kit. |
| Violation Division: | Corona Fire Department |
| Violation Program: | HMRRP |
| Violation Source: | CERS, |

| | |
|---|---|
| Site ID: | 185263 |
| Site Name: | Couts Heating & Cooling, Inc |

**COUTS HEATING & COOLING INC (Continued)** **S113467947**

| | |
|---|---|
| Violation Date: | 06-03-2020 |
| Citation: | HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1) |
| Violation Description: | Failure to complete and electronically submit a site map with all required content. |
| Violation Notes: | OBSERVATION: Failure to complete and electronically submit a site map with all required content. CORRECTIVE ACTION: Update your site map and submit into CERS, ensure all required elements are included: North Orientation, Loading areas, Internal Roads, Adjacent streets, Storm and sewer drains, Access and exit points, Emergency shutoffs, Evacuation staging areas, Hazardous Materials handling and storage locations and, Emergency Response Equipment (hydrants, riser, alarm panel, extinguishers, spill kit, etc.). All text must be oriented in the same direction and a legend is required if using symbols. If hand drawn use a straight edge. Submit by 7/03/20. |
| Violation Division: | Corona Fire Department |
| Violation Program: | HMRRP |
| Violation Source: | CERS, |
| | |
| Site ID: | 185263 |
| Site Name: | Couts Heating & Cooling, Inc |
| Violation Date: | 06-03-2020 |
| Citation: | HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1) |
| Violation Description: | Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities. |
| Violation Notes: | OBSERVATION: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities. CORRECTIVE ACTION: Update Hazardous materials inventories on site and submit into CERS for review and approval by 7/03/20. |
| Violation Division: | Corona Fire Department |
| Violation Program: | HMRRP |
| Violation Source: | CERS, |
| | |
| Site ID: | 185263 |
| Site Name: | Couts Heating & Cooling, Inc |
| Violation Date: | 03-01-2019 |
| Citation: | HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4) |
| Violation Description: | Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years. |
| Violation Notes: | No employee training records on site. Provide annual employee training documents for review. |
| Violation Division: | Corona Fire Department |
| Violation Program: | HMRRP |
| Violation Source: | CERS, |
| | |
| Site ID: | 185263 |
| Site Name: | Couts Heating & Cooling, Inc |
| Violation Date: | 06-03-2020 |
| Citation: | HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1) |
| Violation Description: | Failure to annually review and electronically certify that the |

**COUTS HEATING & COOLING INC (Continued)** **S113467947**

| | |
|---|---|
| | business plan is complete and accurate on or before the annual due date. |
| Violation Notes: | OBSERVATION: Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date. CORRECTIVE ACTION: Update and submit a complete hazardous materials business plan into CERS for review and approval BY 7/03/20. |
| Violation Division: | Corona Fire Department |
| Violation Program: | HMRRP |
| Violation Source: | CERS, |
| | |
| Site ID: | 185263 |
| Site Name: | Couts Heating & Cooling, Inc |
| Violation Date: | 01-13-2016 |
| Citation: | HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple |
| Violation Description: | Business Plan Program - Administration/Documentation - General |
| Violation Notes: | Returned to compliance on 03/09/2016. Change both placard ratings: Change yellow section to 3 to accommodate acetylene. Change blue section to 1 to accommodate hydraulic fluid. Email picture to: ab@ggcorp.net |
| Violation Division: | Corona Fire Department |
| Violation Program: | HMRRP |
| Violation Source: | CERS, |
| | |
| Site ID: | 185263 |
| Site Name: | Couts Heating & Cooling, Inc |
| Violation Date: | 01-13-2016 |
| Citation: | HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1) |
| Violation Description: | Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities. |
| Violation Notes: | Returned to compliance on 07/01/2016. Change Argon/C02 max=2390. Change Tri-mix max=1680 plus largest cont.=280 cu. ft. Change Acetylene largest cont.=150 cu.ft. Max=880 cu.ft. Change 02 Max=1680 cu.ft. Add Argon: max=1960, largest cont.=280 cu.ft. Add Hyperion 6000 AW 55 gal. total. Change Duct liner adhesive max=220 gal. |
| Violation Division: | Corona Fire Department |
| Violation Program: | HMRRP |
| Violation Source: | CERS, |
| | |
| Site ID: | 185263 |
| Site Name: | Couts Heating & Cooling, Inc |
| Violation Date: | 03-01-2019 |
| Citation: | HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1) |
| Violation Description: | Failure to complete and electronically submit a site map with all required content. |
| Violation Notes: | Site map does not show location of spill kit. Update site map with spill kit location and duct liner locations. |
| Violation Division: | Corona Fire Department |
| Violation Program: | HMRRP |
| Violation Source: | CERS, |
| | |
| Site ID: | 185263 |
| Site Name: | Couts Heating & Cooling, Inc |

**COUTS HEATING & COOLING INC (Continued)** **S113467947**

Violation Date: 01-13-2016
Citation: HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4)
Violation Description: Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years.
Violation Notes: Returned to compliance on 07/01/2016. Email most recent training documentation to: ab@ggcorp.net
Violation Division: Corona Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Evaluation:
Eval General Type: Other/Unknown
Eval Date: 03-09-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Corona Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 06-03-2020
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: E Inspect
Eval Division: Corona Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 05-17-2019
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Corona Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-01-2019
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Corona Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-13-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: emailed corrections 6/24/16; received training records 7/1/16
Eval Division: Corona Fire Department
Eval Program: HMRRP

**COUTS HEATING & COOLING INC (Continued)** **S113467947**

Eval Source: CERS,

Enforcement Action:
Site ID: 185263
Site Name: Couts Heating & Cooling, Inc
Site Address: 1693 RIMPAU AVE
Site City: CORONA
Site Zip: 92879
Enf Action Date: 01-13-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Corona Fire Department
Enf Action Program: HMRRP
Enf Action Source: CERS,

Site ID: 185263
Site Name: Couts Heating & Cooling, Inc
Site Address: 1693 RIMPAU AVE
Site City: CORONA
Site Zip: 92879
Enf Action Date: 03-01-2019
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Corona Fire Department
Enf Action Program: HMRRP
Enf Action Source: CERS,

Affiliation:
Affiliation Type Desc: CUPA District
Entity Name: Riverside Cnty Env Health
Entity Title: Not reported
Affiliation Address: 4065 County Circle Drive, Room 104
Affiliation City: Riverside
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92503
Affiliation Phone: (951) 358-5055,

Affiliation Type Desc: Property Owner
Entity Name: John & Carolyn Couts
Entity Title: Not reported
Affiliation Address: 1693 Rimpau Ave
Affiliation City: Corona
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 92879
Affiliation Phone: (951) 278-5560,

Affiliation Type Desc: Legal Owner
Entity Name: John Couts
Entity Title: Not reported
Affiliation Address: 1693 Rimpau Ave
Affiliation City: Corona
Affiliation State: CA

**COUTS HEATING & COOLING INC (Continued)** **S113467947**

| | |
|---|---|
| Affiliation Country: | United States |
| Affiliation Zip: | 92879 |
| Affiliation Phone: | (951) 515-2170, |
| | |
| Affiliation Type Desc: | Operator |
| Entity Name: | Couts Heating & Cooling, Inc |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | (951) 515-2170, |
| | |
| Affiliation Type Desc: | Parent Corporation |
| Entity Name: | Couts Heating & Cooling, Inc |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | , |
| | |
| Affiliation Type Desc: | Environmental Contact |
| Entity Name: | David Ringer |
| Entity Title: | Not reported |
| Affiliation Address: | 1693 Rimpau Ave |
| Affiliation City: | Corona |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 92879 |
| Affiliation Phone: | , |
| | |
| Affiliation Type Desc: | Facility Mailing Address |
| Entity Name: | Mailing Address |
| Entity Title: | Not reported |
| Affiliation Address: | 1693 Rimpau Ave |
| Affiliation City: | Corona |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 92879 |
| Affiliation Phone: | , |
| | |
| Affiliation Type Desc: | Identification Signer |
| Entity Name: | Jill Henley |
| Entity Title: | HR & Safety Manager |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | , |
| | |
| Affiliation Type Desc: | Document Preparer |
| Entity Name: | Jill Henley |
| Entity Title: | Not reported |

**COUTS HEATING & COOLING INC (Continued)** **S113467947**

Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

HWTS:
Name: COUTS HEATING & COOLING INC
Address: 1693 RIMPAU AVE
Address 2: Not reported
City,State,Zip: CORONA, CA 92881
EPA ID: CAL000351489
Inactive Date: Not reported
Create Date: 04/06/2010
Last Act Date: Not reported
Mailing Name: Not reported
Mailing Address: 1693 RIMPAU AVE
Mailing Address 2: Not reported
Mailing City,State,Zip: CORONA, CA 928813202
Owner Name: COUTS HEATING & COOLING INC
Owner Address: 1693 RIMPAU AVE
Owner Address 2: Not reported
Owner City,State,Zip: CORONA, CA 928813202
Contact Name: JILL HENLEY
Contact Address: 1693 RIMPAU AVE
Contact Address 2: Not reported
City,State,Zip: CORONA, CA 92881
Facility Status: Active
Facility Type: PERMANENT
Category: STATE
Latitude: 33.861111
Longitude: -117.544633

NAICS:
EPA ID: CAL000351489
Create Date: 2011-04-05 10:18:11.997
NAICS Code: 23511
NAICS Description: Plumbing, Heating, and Air-Conditioning Contractors
Issued EPA ID Date: 2010-04-06 14:21:03.22300
Inactive Date: Not reported
Facility Name: COUTS HEATING & COOLING INC
Facility Address: 1693 RIMPAU AVE
Facility Address 2: Not reported
Facility City: CORONA
Facility County: Not reported
Facility State: CA
Facility Zip: 928813202

**28**
**NNE**
**1/8-1/4**
**0.128 mi.**
**674 ft.**

**OSBORN, MADELINE**
**1550 RIMPAU AVENUE**
**CORONA, CA 92881**

**RCRA NonGen / NLR**

**1024748382**
**CAC002968161**

**Relative:**
**Lower**

**Actual:**
**752 ft.**

RCRA NonGen / NLR:

| | | |
|---|---|---|
| Date Form Received by Agency: | | 20180626 |
| Handler Name: | OSBORN, MADELINE | |
| Handler Address: | | 1550 RIMPAU AVENUE |
| Handler City,State,Zip: | | CORONA, CA 92881 |
| EPA ID: | | CAC002968161 |
| Contact Name: | | OSBORN, MADELINE |
| Contact Address: | | 1550 RIMPAU AVENUE |
| Contact City,State,Zip: | | CORONA, CA 92881 |
| Contact Telephone: | | 951-278-4919 |
| Contact Fax: | | Not reported |
| Contact Email: | | ANDREWC@PWSEI.COM |
| Contact Title: | | Not reported |
| EPA Region: | | 09 |
| Land Type: | | Not reported |
| Federal Waste Generator Description: | | Not a generator, verified |
| Non-Notifier: | | Not reported |
| Biennial Report Cycle: | | Not reported |
| Accessibility: | | Not reported |
| Active Site Indicator: | | Handler Activities |
| State District Owner: | | Not reported |
| State District: | | Not reported |
| Mailing Address: | | 1550 RIMPAU AVENUE |
| Mailing City,State,Zip: | | CORONA, CA 92881 |
| Owner Name: | | OSBORN, MADELINE |
| Owner Type: | | Other |
| Operator Name: | | OSBORN, MADELINE |
| Operator Type: | | Other |
| Short-Term Generator Activity: | | No |
| Importer Activity: | | No |
| Mixed Waste Generator: | | No |
| Transporter Activity: | | No |
| Transfer Facility Activity: | | No |
| Recycler Activity with Storage: | | No |
| Small Quantity On-Site Burner Exemption: | | No |
| Smelting Melting and Refining Furnace Exemption: | | No |
| Underground Injection Control: | | No |
| Off-Site Waste Receipt: | | No |
| Universal Waste Indicator: | | Yes |
| Universal Waste Destination Facility: | | Yes |
| Federal Universal Waste: | | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | | Not reported |
| Active Site State-Reg Handler: | | --- |
| Federal Facility Indicator: | | Not reported |
| Hazardous Secondary Material Indicator: | | N |
| Sub-Part K Indicator: | | Not reported |
| Commercial TSD Indicator: | | No |
| Treatment Storage and Disposal Type: | | Not reported |
| 2018 GPRA Permit Baseline: | | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | | Not on the Baseline |
| Permit Renewals Workload Universe: | | Not reported |

**OSBORN, MADELINE (Continued)** **1024748382**

| | |
|---|---|
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 20180831 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | No |
| Manifest Broker: | No |
| Sub-Part P Indicator: | No |

Handler - Owner Operator:

| | |
|---|---|
| Owner/Operator Indicator: | Operator |
| Owner/Operator Name: | OSBORN, MADELINE |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 1550 RIMPAU AVENUE |
| Owner/Operator City,State,Zip: | CORONA, CA 92881 |
| Owner/Operator Telephone: | 951-278-4919 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

| | |
|---|---|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | OSBORN, MADELINE |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 1550 RIMPAU AVENUE |
| Owner/Operator City,State,Zip: | CORONA, CA 92881 |
| Owner/Operator Telephone: | 951-278-4919 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

**OSBORN, MADELINE (Continued)** **1024748382**

Historic Generators:
- Receive Date: 20180626
- Handler Name: OSBORN, MADELINE
- Federal Waste Generator Description: Not a generator, verified
- State District Owner: Not reported
- Large Quantity Handler of Universal Waste: No
- Recognized Trader Importer: No
- Recognized Trader Exporter: No
- Spent Lead Acid Battery Importer: No
- Spent Lead Acid Battery Exporter: No
- Current Record: Yes
- Non Storage Recycler Activity: Not reported
- Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
- NAICS Code: 56299
- NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:
- Violations: No Violations Found

Evaluation Action Summary:
- Evaluations: No Evaluations Found

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**H29** **OARIONA LOWE DDS & EVANGELOS ROSSOPOULOS DDS** **RCRA NonGen / NLR** **1027218019**
**WNW** **802 MAGNOLIA AVE STE 105** **CAL000469874**
**1/8-1/4** **CORONA, CA 92879**
**0.148 mi.**
**779 ft.** **Site 1 of 3 in cluster H**

**Relative:** **Higher**
**Actual:** **811 ft.**

RCRA NonGen / NLR:
- Date Form Received by Agency: 20220412
- Handler Name: OARIONA LOWE DDS & EVANGELOS ROSSOPOULOS DDS
- Handler Address: 802 MAGNOLIA AVE STE 105
- Handler City,State,Zip: CORONA, CA 92879
- EPA ID: CAL000469874
- Contact Name: EVANGELOS ROSSOPOULOS/STEPHANIE LAFACE
- Contact Address: 802 MAGNOLIA AVE STE 105
- Contact City,State,Zip: CORONA, CA 92879
- Contact Telephone: 951-371-8833
- Contact Fax: 951-339-3722
- Contact Email: DENTALOFFICECORONA@YAHOO.COM
- Contact Title: Not reported
- EPA Region: 09
- Land Type: Not reported
- Federal Waste Generator Description: Not a generator, verified
- Non-Notifier: Not reported
- Biennial Report Cycle: Not reported
- Accessibility: Not reported
- Active Site Indicator: Not reported
- State District Owner: Not reported
- State District: Not reported
- Mailing Address: 802 MAGNOLIA AVE STE 105
- Mailing City,State,Zip: CORONA, CA 92879
- Owner Name: E ROSSOPOULOS & O LOWE

**OARIONA LOWE DDS & EVANGELOS ROSSOPOULOS DDS (Continued)** **1027218019**

| | |
|---|---|
| Owner Type: | Other |
| Operator Name: | EVANGELOS ROSSOPOULOS/STEPHANIE LAFACE |
| Operator Type: | Other |
| Short-Term Generator Activity: | No |
| Importer Activity: | No |
| Mixed Waste Generator: | No |
| Transporter Activity: | No |
| Transfer Facility Activity: | No |
| Recycler Activity with Storage: | No |
| Small Quantity On-Site Burner Exemption: | No |
| Smelting Melting and Refining Furnace Exemption: | No |
| Underground Injection Control: | No |
| Off-Site Waste Receipt: | No |
| Universal Waste Indicator: | No |
| Universal Waste Destination Facility: | No |
| Federal Universal Waste: | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site State-Reg Handler: | --- |
| Federal Facility Indicator: | Not reported |
| Hazardous Secondary Material Indicator: | N |
| Sub-Part K Indicator: | Not reported |
| Commercial TSD Indicator: | No |
| Treatment Storage and Disposal Type: | Not reported |
| 2018 GPRA Permit Baseline: | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | Not on the Baseline |
| Permit Renewals Workload Universe: | Not reported |
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 20220418 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | No |
| Manifest Broker: | No |

**OARIONA LOWE DDS & EVANGELOS ROSSOPOULOS DDS (Continued)** **1027218019**

Sub-Part P Indicator: No

Handler - Owner Operator:
Owner/Operator Indicator: Owner
Owner/Operator Name: E ROSSOPOULOS & O LOWE
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 802 MAGNOLIA AVE STE 105
Owner/Operator City,State,Zip: CORONA, CA 92879
Owner/Operator Telephone: 951-371-8833
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: EVANGELOS ROSSOPOULOS/STEPHANIE LAFACE
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 802 MAGNOLIA AVE STE 105
Owner/Operator City,State,Zip: CORONA, CA 92879
Owner/Operator Telephone: 951-371-8833
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20220412
Handler Name: OARIONA LOWE DDS & EVANGELOS ROSSOPOULOS DDS
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

List of NAICS Codes and Descriptions:
NAICS Code: 621210
NAICS Description: OFFICES OF DENTISTS

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

**F30** **SORA POWER INC** **RCRA NonGen / NLR** **1024818044**
**ENE** **1141 OLYMPIC DR** **CAL000323922**
**1/8-1/4** **CORONA, CA 92881**
**0.149 mi.**
**787 ft.** **Site 2 of 3 in cluster F**

**Relative:** **Lower**
**Actual:** **753 ft.**

RCRA NonGen / NLR:

| | | |
|---|---|---|
| Date Form Received by Agency: | | 20070820 |
| Handler Name: | SORA POWER INC | |
| Handler Address: | | 1141 OLYMPIC DR |
| Handler City,State,Zip: | | CORONA, CA 92881-3391 |
| EPA ID: | | CAL000323922 |
| Contact Name: | | MONICA MITCHELL |
| Contact Address: | | 1141 OLYMPIC DR |
| Contact City,State,Zip: | | CORONA, CA 92881 |
| Contact Telephone: | | 951-479-9880 |
| Contact Fax: | | 951-479-9881 |
| Contact Email: | | ADMIN@SORAPOWER.COM |
| Contact Title: | | Not reported |
| EPA Region: | | 09 |
| Land Type: | | Not reported |
| Federal Waste Generator Description: | | Not a generator, verified |
| Non-Notifier: | | Not reported |
| Biennial Report Cycle: | | Not reported |
| Accessibility: | | Not reported |
| Active Site Indicator: | | Handler Activities |
| State District Owner: | | Not reported |
| State District: | | Not reported |
| Mailing Address: | | 1141 OLYMPIC DR |
| Mailing City,State,Zip: | | CORONA, CA 92881-3391 |
| Owner Name: | | RAMESH PATEL |
| Owner Type: | | Other |
| Operator Name: | | MONICA MITCHELL |
| Operator Type: | | Other |
| Short-Term Generator Activity: | | No |
| Importer Activity: | | No |
| Mixed Waste Generator: | | No |
| Transporter Activity: | | No |
| Transfer Facility Activity: | | No |
| Recycler Activity with Storage: | | No |
| Small Quantity On-Site Burner Exemption: | | No |
| Smelting Melting and Refining Furnace Exemption: | | No |
| Underground Injection Control: | | No |
| Off-Site Waste Receipt: | | No |
| Universal Waste Indicator: | | Yes |
| Universal Waste Destination Facility: | | Yes |
| Federal Universal Waste: | | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | | Not reported |
| Active Site State-Reg Handler: | | --- |
| Federal Facility Indicator: | | Not reported |
| Hazardous Secondary Material Indicator: | | N |
| Sub-Part K Indicator: | | Not reported |
| Commercial TSD Indicator: | | No |
| Treatment Storage and Disposal Type: | | Not reported |
| 2018 GPRA Permit Baseline: | | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | | Not on the Baseline |
| Permit Renewals Workload Universe: | | Not reported |

**SORA POWER INC (Continued)** **1024818044**

| | |
|---|---|
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 20180905 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | No |
| Manifest Broker: | No |
| Sub-Part P Indicator: | No |

Handler - Owner Operator:

| | |
|---|---|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | RAMESH PATEL |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 1141 OLYMPIC DR |
| Owner/Operator City,State,Zip: | CORONA, CA 92881-3391 |
| Owner/Operator Telephone: | 951-479-9880 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

| | |
|---|---|
| Owner/Operator Indicator: | Operator |
| Owner/Operator Name: | MONICA MITCHELL |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 1141 OLYMPIC DR |
| Owner/Operator City,State,Zip: | CORONA, CA 92881 |
| Owner/Operator Telephone: | 951-479-9880 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

**SORA POWER INC (Continued)** **1024818044**

Historic Generators:
Receive Date: 20070820
Handler Name: SORA POWER INC
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 334511
NAICS Description: SEARCH, DETECTION, NAVIGATION, GUIDANCE, AERONAUTICAL, AND NAUTICAL SYSTEM AND INSTRUMENT MANUFACTURING

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

---

**F31** **SORA POWER INC** **CERS HAZ WASTE** **S113149445**
**ENE** **1141 OLYMPIC DR** **HAZNET** **N/A**
**1/8-1/4** **CORONA, CA 92881** **NPDES**
**0.149 mi.** **CIWQS**
**787 ft.** **Site 3 of 3 in cluster F** **CERS**
**HWTS**
**Relative:**
**Lower**
**Actual:**
**753 ft.**

CERS HAZ WASTE:
Name: SORA POWER INC
Address: 1141 OLYMPIC DR
City,State,Zip: CORONA, CA 92881
Site ID: 154769
CERS ID: 10487761
CERS Description: Hazardous Waste Generator

HAZNET:
Name: SORA POWER INC
Address: 1141 OLYMPIC DR
Address 2: Not reported
City,State,Zip: CORONA, CA 928813391
Contact: MONICA MITCHELL
Telephone: 9514799880
Mailing Name: Not reported
Mailing Address: 1141 OLYMPIC DR

Year: 2019
Gepaid: CAL000323922
TSD EPA ID: CAT080013352
CA Waste Code: 221 - Waste oil and mixed oil

**SORA POWER INC (Continued)** **S113149445**

Disposal Method: H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons: 0.00000

Year: 2019
Gepaid: CAL000323922
TSD EPA ID: CAD008252405
CA Waste Code: 214 - Unspecified solvent mixture
Disposal Method: H061 - Fuel Blending Prior To Energy Recovery At Another Site
Tons: 0.19800

Year: 2018
Gepaid: CAL000323922
TSD EPA ID: CAT080013352
CA Waste Code: 221 - Waste oil and mixed oil
Disposal Method: H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons: 0.00000

Year: 2018
Gepaid: CAL000323922
TSD EPA ID: CAD008252405
CA Waste Code: 214 - Unspecified solvent mixture
Disposal Method: H061 - Fuel Blending Prior To Energy Recovery At Another Site
Tons: 0.19800

Year: 2017
Gepaid: CAL000323922
TSD EPA ID: CAD008252405
CA Waste Code: 214 - Unspecified solvent mixture
Disposal Method: H061 - Fuel Blending Prior To Energy Recovery At Another Site
Tons: 0.396

Year: 2017
Gepaid: CAL000323922
TSD EPA ID: CAT080025711
CA Waste Code: 221 - Waste oil and mixed oil
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.608

Year: 2015
Gepaid: CAL000323922
TSD EPA ID: CAT080013352
CA Waste Code: 221 - Waste oil and mixed oil
Disposal Method: H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons: 1.254

Year: 2015
Gepaid: CAL000323922
TSD EPA ID: CAD008252405
CA Waste Code: 214 - Unspecified solvent mixture
Disposal Method: H061 - Fuel Blending Prior To Energy Recovery At Another Site
Tons: 0.18

Year: 2014

**SORA POWER INC (Continued)** **S113149445**

Gepaid: CAL000323922
TSD EPA ID: CAD008252405
CA Waste Code: 214 - Unspecified solvent mixture
Disposal Method: H061 - Fuel Blending Prior To Energy Recovery At Another Site
Tons: 0.396

Year: 2014
Gepaid: CAL000323922
TSD EPA ID: CAT080013352
CA Waste Code: 221 - Waste oil and mixed oil
Disposal Method: H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons: 0.627

Click this hyperlink while viewing on your computer to access
21 additional CA HAZNET: record(s) in the EDR Site Report.

Additional Info:
Year: 2011
Gen EPA ID: CAL000323922

Shipment Date: 20111026
Creation Date: 1/12/2012 18:30:51
Receipt Date: 20111026
Manifest ID: 001532376GBF
Trans EPA ID: CAD980814446
Trans Name: MARK ALARCON'S WASTE OIL SERVICE
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAT080013352
Trans Name: DE MENNO KERDOON
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 221 - Waste oil and mixed oil
RCRA Code: Not reported
Meth Code: H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons: 0.798
Waste Quantity: 210
Quantity Unit: G
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20111026
Creation Date: 4/13/2012 20:30:11
Receipt Date: 20111031
Manifest ID: 008516365JJK
Trans EPA ID: CAR000172189
Trans Name: AMBERWICK CORPORATION
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAD008252405
Trans Name: PACIFIC RESOURCE RECOVERY

**SORA POWER INC (Continued)** **S113149445**

| | |
|---|---|
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 214 - Unspecified solvent mixture |
| RCRA Code: | F003 |
| Meth Code: | H061 - Fuel Blending Prior To Energy Recovery At Another Site |
| Quantity Tons: | 0.594 |
| Waste Quantity: | 165 |
| Quantity Unit: | G |
| Additional Code 1: | D001 |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2012 |
| Gen EPA ID: | CAL000323922 |
| Shipment Date: | 20121107 |
| Creation Date: | 1/9/2013 22:15:34 |
| Receipt Date: | 20121107 |
| Manifest ID: | 001682852GBF |
| Trans EPA ID: | CAD980814446 |
| Trans Name: | MARK ALARCON'S WASTE OIL SERVICE |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080013352 |
| Trans Name: | DEMENNO KERDOON |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 221 - Waste oil and mixed oil |
| RCRA Code: | Not reported |
| Meth Code: | H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect |
| Quantity Tons: | 0.608 |
| Waste Quantity: | 160 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| Shipment Date: | 20121106 |
| Creation Date: | 4/15/2013 22:15:20 |
| Receipt Date: | 20121109 |
| Manifest ID: | 010037813JJK |
| Trans EPA ID: | CAR000172189 |
| Trans Name: | AMBERWICK CORPORATION |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD008252405 |
| Trans Name: | PACIFIC RESOURCE RECOVERY |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 214 - Unspecified solvent mixture |
| RCRA Code: | F003 |

**SORA POWER INC (Continued)** **S113149445**

| | |
|---|---|
| Meth Code: | H061 - Fuel Blending Prior To Energy Recovery At Another Site |
| Quantity Tons: | 0.396 |
| Waste Quantity: | 110 |
| Quantity Unit: | G |
| Additional Code 1: | D001 |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20121106 |
| Creation Date: | 3/22/2013 22:15:24 |
| Receipt Date: | 20121112 |
| Manifest ID: | 010037812JJK |
| Trans EPA ID: | CAR000172189 |
| Trans Name: | AMBERWICK CORPORATION |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | NVT330010000 |
| Trans Name: | US ECOLOGY |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 352 - Other organic solids |
| RCRA Code: | Not reported |
| Meth Code: | H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill( To Include On-Site Treatment And/Or Stabilization) |
| Quantity Tons: | 0.25 |
| Waste Quantity: | 500 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2017 |
| Gen EPA ID: | CAL000323922 |
| | |
| Shipment Date: | 20170712 |
| Creation Date: | 5/21/2018 18:33:32 |
| Receipt Date: | 20170712 |
| Manifest ID: | 003376695GBF |
| Trans EPA ID: | CAD980814446 |
| Trans Name: | MARK ALARCON'S WASTE OIL SERVICE |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080025711 |
| Trans Name: | ADVANCED ENVIRONMENTAL INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 221 - Waste oil and mixed oil |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.608 |
| Waste Quantity: | 160 |

**SORA POWER INC (Continued)** **S113149445**

| | |
|---|---|
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20170221 |
| Creation Date: | 5/11/2018 18:34:48 |
| Receipt Date: | 20170222 |
| Manifest ID: | 016609443JJK |
| Trans EPA ID: | CAR000172189 |
| Trans Name: | AMBERWICK CORPORATION |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD008252405 |
| Trans Name: | PACIFIC RESOURCE RECOVERY |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 214 - Unspecified solvent mixture |
| RCRA Code: | F003 |
| Meth Code: | H061 - Fuel Blending Prior To Energy Recovery At Another Site |
| Quantity Tons: | 0.396 |
| Waste Quantity: | 110 |
| Quantity Unit: | G |
| Additional Code 1: | D001 |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2008 |
| Gen EPA ID: | CAL000323922 |
| | |
| Shipment Date: | 20080912 |
| Creation Date: | 11/14/2008 18:30:08 |
| Receipt Date: | 20080922 |
| Manifest ID: | 001196444FLE |
| Trans EPA ID: | CAD983649880 |
| Trans Name: | GENERAL ENVIRONMENTAL MANAGEMENT INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION |
| TSDF EPA ID: | CAD980884183 |
| Trans Name: | GEM RANCHO CORDOVA LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 551 - Laboratory waste chemicals 561 Detergent and soap |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.009 |
| Waste Quantity: | 18 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |

**SORA POWER INC (Continued)** **S113149445**

| | |
|---|---|
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20080912 |
| Creation Date: | 11/14/2008 18:30:08 |
| Receipt Date: | 20080922 |
| Manifest ID: | 001196444FLE |
| Trans EPA ID: | CAD983649880 |
| Trans Name: | GENERAL ENVIRONMENTAL MANAGEMENT INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION |
| TSDF EPA ID: | CAD980884183 |
| Trans Name: | GEM RANCHO CORDOVA LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 331 - Off-specification, aged, or surplus organics |
| RCRA Code: | D002 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.0325 |
| Waste Quantity: | 65 |
| Quantity Unit: | P |
| Additional Code 1: | D001 |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20080912 |
| Creation Date: | 11/14/2008 18:30:08 |
| Receipt Date: | 20080922 |
| Manifest ID: | 001196444FLE |
| Trans EPA ID: | CAD983649880 |
| Trans Name: | GENERAL ENVIRONMENTAL MANAGEMENT INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION |
| TSDF EPA ID: | CAD980884183 |
| Trans Name: | GEM RANCHO CORDOVA LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 551 - Laboratory waste chemicals 561 Detergent and soap |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.1125 |
| Waste Quantity: | 225 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20080912 |
| Creation Date: | 11/14/2008 18:30:08 |
| Receipt Date: | 20080922 |
| Manifest ID: | 001196444FLE |

**SORA POWER INC (Continued)** **S113149445**

| | |
|---|---|
| Trans EPA ID: | CAD983649880 |
| Trans Name: | GENERAL ENVIRONMENTAL MANAGEMENT INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION |
| TSDF EPA ID: | CAD980884183 |
| Trans Name: | GEM RANCHO CORDOVA LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 331 - Off-specification, aged, or surplus organics |
| RCRA Code: | D035 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.225 |
| Waste Quantity: | 450 |
| Quantity Unit: | P |
| Additional Code 1: | D001 |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20080911 |
| Creation Date: | 10/21/2008 18:30:24 |
| Receipt Date: | 20080911 |
| Manifest ID: | 002940526JJK |
| Trans EPA ID: | CAD008364432 |
| Trans Name: | RHO CHEM LLC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD008364432 |
| Trans Name: | RHO CHEM LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 352 - Other organic solids |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.25 |
| Waste Quantity: | 500 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20080911 |
| Creation Date: | 10/21/2008 18:30:24 |
| Receipt Date: | 20080911 |
| Manifest ID: | 002940526JJK |
| Trans EPA ID: | CAD008364432 |
| Trans Name: | RHO CHEM LLC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD008364432 |
| Trans Name: | RHO CHEM LLC |
| TSDF Alt EPA ID: | Not reported |

**SORA POWER INC (Continued)** **S113149445**

| | |
|---|---|
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 221 - Waste oil and mixed oil |
| RCRA Code: | Not reported |
| Meth Code: | H061 - Fuel Blending Prior To Energy Recovery At Another Site |
| Quantity Tons: | 0.6156 |
| Waste Quantity: | 162 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20080911 |
| Creation Date: | 10/21/2008 18:30:24 |
| Receipt Date: | 20080911 |
| Manifest ID: | 002940526JJK |
| Trans EPA ID: | CAD008364432 |
| Trans Name: | RHO CHEM LLC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD008364432 |
| Trans Name: | RHO CHEM LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | - Not reported |
| RCRA Code: | F003 |
| Meth Code: | H061 - Fuel Blending Prior To Energy Recovery At Another Site |
| Quantity Tons: | 0.2085 |
| Waste Quantity: | 50 |
| Quantity Unit: | G |
| Additional Code 1: | D001 |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20080624 |
| Creation Date: | 8/20/2008 18:30:08 |
| Receipt Date: | 20080624 |
| Manifest ID: | 002936648JJK |
| Trans EPA ID: | CAD008364432 |
| Trans Name: | RHO CHEM LLC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD008364432 |
| Trans Name: | RHO CHEM LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 221 - Waste oil and mixed oil |
| RCRA Code: | Not reported |
| Meth Code: | H061 - Fuel Blending Prior To Energy Recovery At Another Site |
| Quantity Tons: | 0.627 |
| Waste Quantity: | 165 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |

**SORA POWER INC (Continued)** **S113149445**

| | |
|---|---|
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20080624 |
| Creation Date: | 8/20/2008 18:30:08 |
| Receipt Date: | 20080624 |
| Manifest ID: | 002936648JJK |
| Trans EPA ID: | CAD008364432 |
| Trans Name: | RHO CHEM LLC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD008364432 |
| Trans Name: | RHO CHEM LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | - Not reported |
| RCRA Code: | F003 |
| Meth Code: | H061 - Fuel Blending Prior To Energy Recovery At Another Site |
| Quantity Tons: | 0.22935 |
| Waste Quantity: | 55 |
| Quantity Unit: | G |
| Additional Code 1: | D001 |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20080401 |
| Creation Date: | 5/22/2008 18:30:15 |
| Receipt Date: | 20080402 |
| Manifest ID: | 002944546JJK |
| Trans EPA ID: | CAD008364432 |
| Trans Name: | RHO CHEM CORPORATION |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD008364432 |
| Trans Name: | RHO CHEM CORPORATION |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 221 - Waste oil and mixed oil |
| RCRA Code: | Not reported |
| Meth Code: | H061 - Fuel Blending Prior To Energy Recovery At Another Site |
| Quantity Tons: | 0.627 |
| Waste Quantity: | 165 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2014 |
| Gen EPA ID: | CAL000323922 |
| | |
| Shipment Date: | 20140128 |

**SORA POWER INC (Continued)** **S113149445**

| | |
|---|---|
| Creation Date: | 3/30/2014 22:15:09 |
| Receipt Date: | 20140128 |
| Manifest ID: | 002302662GBF |
| Trans EPA ID: | CAD980814446 |
| Trans Name: | MARK ALARCON'S WASTE OIL SERVICE |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080013352 |
| Trans Name: | DEMENNO KERDOON |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 221 - Waste oil and mixed oil |
| RCRA Code: | Not reported |
| Meth Code: | H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect |
| Quantity Tons: | 0.627 |
| Waste Quantity: | 165 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20140123 |
| Creation Date: | 8/14/2014 22:15:12 |
| Receipt Date: | 20140131 |
| Manifest ID: | 011006517JJK |
| Trans EPA ID: | CAR000172189 |
| Trans Name: | AMBERWICK CORPORATION |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD008252405 |
| Trans Name: | PACIFIC RESOURCE RECOVERY |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 214 - Unspecified solvent mixture |
| RCRA Code: | F003 |
| Meth Code: | H061 - Fuel Blending Prior To Energy Recovery At Another Site |
| Quantity Tons: | 0.396 |
| Waste Quantity: | 110 |
| Quantity Unit: | G |
| Additional Code 1: | D001 |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2009 |
| Gen EPA ID: | CAL000323922 |

| | |
|---|---|
| Shipment Date: | 20091223 |
| Creation Date: | 4/12/2010 18:31:35 |
| Receipt Date: | 20100113 |
| Manifest ID: | 003053668FLE |
| Trans EPA ID: | CAD983649880 |

**SORA POWER INC (Continued)** **S113149445**

| | |
|---|---|
| Trans Name: | GENERAL ENVIRONMENTAL MANAGEMENT INC |
| Trans 2 EPA ID: | CAR000053405 |
| Trans 2 Name: | ISLAND ENVIRONMENTAL SERVICES |
| TSDF EPA ID: | CAD980884183 |
| Trans Name: | GEM RANCHO CORDOVA LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 214 - Unspecified solvent mixture |
| RCRA Code: | F003 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.36 |
| Waste Quantity: | 100 |
| Quantity Unit: | G |
| Additional Code 1: | D001 |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20091222 |
| Creation Date: | 3/11/2010 18:30:08 |
| Receipt Date: | 20091222 |
| Manifest ID: | 000757520GBF |
| Trans EPA ID: | CAD980814446 |
| Trans Name: | MARK ALARCON'S WASTE OIL SERVICE |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080013352 |
| Trans Name: | DE MENNO KERDOON |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 221 - Waste oil and mixed oil |
| RCRA Code: | Not reported |
| Meth Code: | H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect |
| Quantity Tons: | 0.988 |
| Waste Quantity: | 260 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20090604 |
| Creation Date: | 7/20/2009 18:30:08 |
| Receipt Date: | 20090619 |
| Manifest ID: | 002046663FLE |
| Trans EPA ID: | CAD983649880 |
| Trans Name: | GENERAL ENVIRONMENTAL MANAGEMENT INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD980884183 |
| Trans Name: | GEM RANCHO CORDOVA LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |

**SORA POWER INC (Continued)** **S113149445**

| | |
|---|---|
| Waste Code Description: | 352 - Other organic solids |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.15 |
| Waste Quantity: | 300 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20090604 |
| Creation Date: | 7/20/2009 18:30:08 |
| Receipt Date: | 20090619 |
| Manifest ID: | 002046663FLE |
| Trans EPA ID: | CAD983649880 |
| Trans Name: | GENERAL ENVIRONMENTAL MANAGEMENT INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD980884183 |
| Trans Name: | GEM RANCHO CORDOVA LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 214 - Unspecified solvent mixture |
| RCRA Code: | F003 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.36 |
| Waste Quantity: | 100 |
| Quantity Unit: | G |
| Additional Code 1: | D001 |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20090603 |
| Creation Date: | 7/14/2009 18:30:37 |
| Receipt Date: | 20090603 |
| Manifest ID: | 000757155GBF |
| Trans EPA ID: | CAD980814446 |
| Trans Name: | MARK ALARCON'S WASTE OIL SERVICE |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080013352 |
| Trans Name: | DE MENNO KERDOON |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 221 - Waste oil and mixed oil |
| RCRA Code: | Not reported |
| Meth Code: | H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect |
| Quantity Tons: | 0.988 |
| Waste Quantity: | 260 |
| Quantity Unit: | G |

**SORA POWER INC (Continued)** **S113149445**

| | |
|---|---|
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20090205 |
| Creation Date: | 4/8/2009 18:30:21 |
| Receipt Date: | 20090216 |
| Manifest ID: | 001198466FLE |
| Trans EPA ID: | CAD983649880 |
| Trans Name: | GENERAL ENVIRONMENTAL MANAGEMENT INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD980884183 |
| Trans Name: | GEM RANCHO CORDOVA LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 214 - Unspecified solvent mixture |
| RCRA Code: | F003 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.18 |
| Waste Quantity: | 50 |
| Quantity Unit: | G |
| Additional Code 1: | D001 |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20090203 |
| Creation Date: | 3/31/2009 18:30:39 |
| Receipt Date: | 20090203 |
| Manifest ID: | 000756966GBF |
| Trans EPA ID: | CAD980814446 |
| Trans Name: | MARK ALARCON'S WASTE OIL SERVICE |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080013352 |
| Trans Name: | DE MENNO KERDOON |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 221 - Waste oil and mixed oil |
| RCRA Code: | Not reported |
| Meth Code: | H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect |
| Quantity Tons: | 0.988 |
| Waste Quantity: | 260 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

**SORA POWER INC (Continued)** **S113149445**

Additional Info:

| | |
|---|---|
| Year: | 2007 |
| Gen EPA ID: | CAL000323922 |
| Shipment Date: | 20071023 |
| Creation Date: | 1/8/2008 18:30:57 |
| Receipt Date: | 20071024 |
| Manifest ID: | 002925978JJK |
| Trans EPA ID: | CAD008364432 |
| Trans Name: | RHO CHEM CORPORATION |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD008364432 |
| Trans Name: | RHO CHEM CORPORATION |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc. |
| RCRA Code: | F003 |
| Meth Code: | H061 - Fuel Blending Prior To Energy Recovery At Another Site |
| Quantity Tons: | 0.1782 |
| Waste Quantity: | 54 |
| Quantity Unit: | G |
| Additional Code 1: | D001 |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| Shipment Date: | 20071023 |
| Creation Date: | 1/8/2008 18:30:57 |
| Receipt Date: | 20071024 |
| Manifest ID: | 002925978JJK |
| Trans EPA ID: | CAD008364432 |
| Trans Name: | RHO CHEM CORPORATION |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD008364432 |
| Trans Name: | RHO CHEM CORPORATION |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 221 - Waste oil and mixed oil |
| RCRA Code: | Not reported |
| Meth Code: | H061 - Fuel Blending Prior To Energy Recovery At Another Site |
| Quantity Tons: | 0.4104 |
| Waste Quantity: | 108 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| Shipment Date: | 20071023 |
| Creation Date: | 1/8/2008 18:30:57 |
| Receipt Date: | 20071024 |
| Manifest ID: | 002925978JJK |
| Trans EPA ID: | CAD008364432 |

**SORA POWER INC (Continued)** **S113149445**

| | |
|---|---|
| Trans Name: | RHO CHEM CORPORATION |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD008364432 |
| Trans Name: | RHO CHEM CORPORATION |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 352 - Other organic solids |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.2 |
| Waste Quantity: | 400 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2010 |
| Gen EPA ID: | CAL000323922 |
| Shipment Date: | 20101209 |
| Creation Date: | 5/26/2011 18:30:11 |
| Receipt Date: | 20101216 |
| Manifest ID: | 007324074JJK |
| Trans EPA ID: | CAR000172189 |
| Trans Name: | AMBERWICK CORPORATION |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | NVT330010000 |
| Trans Name: | US ECOLOGY |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 352 - Other organic solids |
| RCRA Code: | Not reported |
| Meth Code: | H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill( To Include On-Site Treatment And/Or Stabilization) |
| Quantity Tons: | 0.4 |
| Waste Quantity: | 800 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| Shipment Date: | 20101209 |
| Creation Date: | 6/20/2011 18:30:31 |
| Receipt Date: | 20101215 |
| Manifest ID: | 007324075JJK |
| Trans EPA ID: | CAR000172189 |
| Trans Name: | AMBERWICK CORPORATION |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |

**SORA POWER INC (Continued)** **S113149445**

TSDF EPA ID: CAD008252405
Trans Name: PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 214 - Unspecified solvent mixture
RCRA Code: F003
Meth Code: H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons: 0.396
Waste Quantity: 110
Quantity Unit: G
Additional Code 1: D001
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20101029
Creation Date: 1/3/2011 18:31:10
Receipt Date: 20101029
Manifest ID: 001122033GBF
Trans EPA ID: CAD980814446
Trans Name: MARK ALARCON'S WASTE OIL SERVICE
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAT080013352
Trans Name: DE MENNO KERDOON
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 221 - Waste oil and mixed oil
RCRA Code: Not reported
Meth Code: H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons: 0.836
Waste Quantity: 220
Quantity Unit: G
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:
Year: 2015
Gen EPA ID: CAL000323922

Shipment Date: 20151214
Creation Date: 9/26/2016 18:30:40
Receipt Date: 20151217
Manifest ID: 014279431JJK
Trans EPA ID: CAR000172189
Trans Name: AMBERWICK CORPORATION
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: NVT330010000
Trans Name: US ECOLOGY
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported

**SORA POWER INC (Continued)** **S113149445**

| | |
|---|---|
| Waste Code Description: | 352 - Other organic solids |
| RCRA Code: | Not reported |
| Meth Code: | H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill( To Include On-Site Treatment And/Or Stabilization) |
| Quantity Tons: | 0.125 |
| Waste Quantity: | 250 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20151214 |
| Creation Date: | 9/26/2016 18:30:40 |
| Receipt Date: | 20151217 |
| Manifest ID: | 014279431JJK |
| Trans EPA ID: | CAR000172189 |
| Trans Name: | AMBERWICK CORPORATION |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | NVT330010000 |
| Trans Name: | US ECOLOGY |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 352 - Other organic solids |
| RCRA Code: | Not reported |
| Meth Code: | H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill( To Include On-Site Treatment And/Or Stabilization) |
| Quantity Tons: | 0.25 |
| Waste Quantity: | 500 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20151214 |
| Creation Date: | 9/27/2016 18:31:13 |
| Receipt Date: | 20151216 |
| Manifest ID: | 014279432JJK |
| Trans EPA ID: | CAR000172189 |
| Trans Name: | AMBERWICK CORPORATION |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD008252405 |
| Trans Name: | PACIFIC RESOURCE RECOVERY |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 214 - Unspecified solvent mixture |
| RCRA Code: | F003 |
| Meth Code: | H061 - Fuel Blending Prior To Energy Recovery At Another Site |
| Quantity Tons: | 0.198 |
| Waste Quantity: | 55 |
| Quantity Unit: | G |
| Additional Code 1: | D001 |

**SORA POWER INC (Continued)** **S113149445**

| | |
|---|---|
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20151210 |
| Creation Date: | 2/9/2016 22:15:57 |
| Receipt Date: | 20151210 |
| Manifest ID: | 002671117GBF |
| Trans EPA ID: | CAD980814446 |
| Trans Name: | MARK ALARCON'S WASTE OIL SERVICE |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080013352 |
| Trans Name: | DEMENNO KERDOON |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 221 - Waste oil and mixed oil |
| RCRA Code: | Not reported |
| Meth Code: | H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect |
| Quantity Tons: | 0.494 |
| Waste Quantity: | 130 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20150107 |
| Creation Date: | 6/26/2015 22:15:23 |
| Receipt Date: | 20150114 |
| Manifest ID: | 013550113JJK |
| Trans EPA ID: | CAR000172189 |
| Trans Name: | AMBERWICK CORPORATION |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD008252405 |
| Trans Name: | PACIFIC RESOURCE RECOVERY |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 214 - Unspecified solvent mixture |
| RCRA Code: | F003 |
| Meth Code: | H061 - Fuel Blending Prior To Energy Recovery At Another Site |
| Quantity Tons: | 0.18 |
| Waste Quantity: | 50 |
| Quantity Unit: | G |
| Additional Code 1: | D001 |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20150105 |
| Creation Date: | 3/26/2015 22:15:06 |
| Receipt Date: | 20150105 |

**SORA POWER INC (Continued)** **S113149445**

| | |
|---|---|
| Manifest ID: | 002670260GBF |
| Trans EPA ID: | CAD980814446 |
| Trans Name: | MARK ALARCON'S WASTE OIL SERVICE |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080013352 |
| Trans Name: | DEMENNO KERDOON |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 221 - Waste oil and mixed oil |
| RCRA Code: | Not reported |
| Meth Code: | H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect |
| Quantity Tons: | 0.76 |
| Waste Quantity: | 200 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

NPDES:

| | |
|---|---|
| Name: | SORA POWER |
| Address: | 1141 OLYMPIC DRIVE |
| City,State,Zip: | CORONA, CA 92881 |
| Facility Status: | Active |
| NPDES Number: | CAS000001 |
| Region: | 8 |
| Agency Number: | 0 |
| Regulatory Measure ID: | 486553 |
| Place ID: | Not reported |
| Order Number: | 97-03-DWQ |
| WDID: | 8 33NEC003346 |
| Regulatory Measure Type: | Enrollee |
| Program Type: | Industrial |
| Adoption Date Of Regulatory Measure: | Not reported |
| Effective Date Of Regulatory Measure: | 06/29/2017 |
| Termination Date Of Regulatory Measure: | Not reported |
| Expiration Date Of Regulatory Measure: | Not reported |
| Discharge Address: | 1141 Olympic Drive |
| Discharge Name: | Sora Power |
| Discharge City: | Corona |
| Discharge State: | California |
| Discharge Zip: | 92881 |
| Status: | Not reported |
| Status Date: | Not reported |
| Operator Name: | Not reported |
| Operator Address: | Not reported |
| Operator City: | Not reported |
| Operator State: | Not reported |
| Operator Zip: | Not reported |

NPDES as of 03/2018:

| | |
|---|---|
| NPDES Number: | Not reported |
| Status: | Not reported |
| Agency Number: | Not reported |

**SORA POWER INC (Continued)** **S113149445**

| | |
|---|---|
| Region: | 8 |
| Regulatory Measure ID: | 486553 |
| Order Number: | Not reported |
| Regulatory Measure Type: | Industrial |
| Place ID: | Not reported |
| WDID: | 8 33NEC003346 |
| Program Type: | Not reported |
| Adoption Date Of Regulatory Measure: | Not reported |
| Effective Date Of Regulatory Measure: | Not reported |
| Expiration Date Of Regulatory Measure: | Not reported |
| Termination Date Of Regulatory Measure: | Not reported |
| Discharge Name: | Not reported |
| Discharge Address: | Not reported |
| Discharge City: | Not reported |
| Discharge State: | Not reported |
| Discharge Zip: | Not reported |
| Received Date: | 06/13/2017 |
| Processed Date: | 06/29/2017 |
| Status: | Active |
| Status Date: | 06/29/2017 |
| Place Size: | 72797 |
| Place Size Unit: | SqFt |
| Contact: | James Virden |
| Contact Title: | Quality Assurance Manager |
| Contact Phone: | 951-479-9880 |
| Contact Phone Ext: | 206 |
| Contact Email: | production@sorapower.com |
| Operator Name: | Sora Power |
| Operator Address: | 1141 Olympic Drive |
| Operator City: | Corona |
| Operator State: | California |
| Operator Zip: | 92881 |
| Operator Contact: | James Virden |
| Operator Contact Title: | Quality Assurance Manager |
| Operator Contact Phone: | 951-479-9880 |
| Operator Contact Phone Ext: | Not reported |
| Operator Contact Email: | production@sorapower.com |
| Operator Type: | Private Business |
| Developer: | Not reported |
| Developer Address: | Not reported |
| Developer City: | Not reported |
| Developer State: | California |
| Developer Zip: | Not reported |
| Developer Contact: | Not reported |
| Developer Contact Title: | Not reported |
| Constype Linear Utility Ind: | Not reported |
| Emergency Phone: | 951-515-1398 |
| Emergency Phone Ext: | Not reported |
| Constype Above Ground Ind: | Not reported |
| Constype Below Ground Ind: | Not reported |
| Constype Cable Line Ind: | Not reported |
| Constype Comm Line Ind: | Not reported |
| Constype Commertial Ind: | Not reported |
| Constype Electrical Line Ind: | Not reported |
| Constype Gas Line Ind: | Not reported |
| Constype Industrial Ind: | Not reported |
| Constype Other Description: | Not reported |

**SORA POWER INC (Continued)** **S113149445**

| | |
|---|---|
| Constype Other Ind: | Not reported |
| Constype Recons Ind: | Not reported |
| Constype Residential Ind: | Not reported |
| Constype Transport Ind: | Not reported |
| Constype Utility Description: | Not reported |
| Constype Utility Ind: | Not reported |
| Constype Water Sewer Ind: | Not reported |
| Dir Discharge Uswater Ind: | N |
| Receiving Water Name: | Not reported |
| Certifier: | James Virden |
| Certifier Title: | Quality Assurance Manager |
| Certification Date: | 13-JUN-17 |
| Primary Sic: | 3679-Electronic Components, NEC |
| Secondary Sic: | Not reported |
| Tertiary Sic: | Not reported |
| | |
| NPDES Number: | CAS000001 |
| Status: | Active |
| Agency Number: | 0 |
| Region: | 8 |
| Regulatory Measure ID: | 486553 |
| Order Number: | 97-03-DWQ |
| Regulatory Measure Type: | Enrollee |
| Place ID: | Not reported |
| WDID: | 8 33NEC003346 |
| Program Type: | Industrial |
| Adoption Date Of Regulatory Measure: | Not reported |
| Effective Date Of Regulatory Measure: | 06/29/2017 |
| Expiration Date Of Regulatory Measure: | Not reported |
| Termination Date Of Regulatory Measure: | Not reported |
| Discharge Name: | Sora Power |
| Discharge Address: | 1141 Olympic Drive |
| Discharge City: | Corona |
| Discharge State: | California |
| Discharge Zip: | 92881 |
| Received Date: | Not reported |
| Processed Date: | Not reported |
| Status: | Not reported |
| Status Date: | Not reported |
| Place Size: | Not reported |
| Place Size Unit: | Not reported |
| Contact: | Not reported |
| Contact Title: | Not reported |
| Contact Phone: | Not reported |
| Contact Phone Ext: | Not reported |
| Contact Email: | Not reported |
| Operator Name: | Not reported |
| Operator Address: | Not reported |
| Operator City: | Not reported |
| Operator State: | Not reported |
| Operator Zip: | Not reported |
| Operator Contact: | Not reported |
| Operator Contact Title: | Not reported |
| Operator Contact Phone: | Not reported |
| Operator Contact Phone Ext: | Not reported |
| Operator Contact Email: | Not reported |
| Operator Type: | Not reported |

**SORA POWER INC (Continued)** **S113149445**

| | |
|---|---|
| Developer: | Not reported |
| Developer Address: | Not reported |
| Developer City: | Not reported |
| Developer State: | Not reported |
| Developer Zip: | Not reported |
| Developer Contact: | Not reported |
| Developer Contact Title: | Not reported |
| Constype Linear Utility Ind: | Not reported |
| Emergency Phone: | Not reported |
| Emergency Phone Ext: | Not reported |
| Constype Above Ground Ind: | Not reported |
| Constype Below Ground Ind: | Not reported |
| Constype Cable Line Ind: | Not reported |
| Constype Comm Line Ind: | Not reported |
| Constype Commertial Ind: | Not reported |
| Constype Electrical Line Ind: | Not reported |
| Constype Gas Line Ind: | Not reported |
| Constype Industrial Ind: | Not reported |
| Constype Other Description: | Not reported |
| Constype Other Ind: | Not reported |
| Constype Recons Ind: | Not reported |
| Constype Residential Ind: | Not reported |
| Constype Transport Ind: | Not reported |
| Constype Utility Description: | Not reported |
| Constype Utility Ind: | Not reported |
| Constype Water Sewer Ind: | Not reported |
| Dir Discharge Uswater Ind: | Not reported |
| Receiving Water Name: | Not reported |
| Certifier: | Not reported |
| Certifier Title: | Not reported |
| Certification Date: | Not reported |
| Primary Sic: | Not reported |
| Secondary Sic: | Not reported |
| Tertiary Sic: | Not reported |

| | |
|---|---|
| Name: | SORA POWER |
| Address: | 1141 OLYMPIC DRIVE |
| City,State,Zip: | CORONA, CA 92881 |
| Facility Status: | Not reported |
| NPDES Number: | Not reported |
| Region: | Not reported |
| Agency Number: | Not reported |
| Regulatory Measure ID: | Not reported |
| Place ID: | Not reported |
| Order Number: | Not reported |
| WDID: | 8 33NEC003346 |
| Regulatory Measure Type: | Industrial |
| Program Type: | Not reported |
| Adoption Date Of Regulatory Measure: | Not reported |
| Effective Date Of Regulatory Measure: | Not reported |
| Termination Date Of Regulatory Measure: | Not reported |
| Expiration Date Of Regulatory Measure: | Not reported |
| Discharge Address: | Not reported |
| Discharge Name: | Not reported |
| Discharge City: | Not reported |
| Discharge State: | Not reported |

**SORA POWER INC (Continued)** **S113149445**

| | |
|---|---|
| Discharge Zip: | Not reported |
| Status: | Active |
| Status Date: | 06/29/2017 |
| Operator Name: | Sora Power |
| Operator Address: | 1141 Olympic Drive |
| Operator City: | Corona |
| Operator State: | California |
| Operator Zip: | 92881 |

NPDES as of 03/2018:

| | |
|---|---|
| NPDES Number: | Not reported |
| Status: | Not reported |
| Agency Number: | Not reported |
| Region: | 8 |
| Regulatory Measure ID: | 486553 |
| Order Number: | Not reported |
| Regulatory Measure Type: | Industrial |
| Place ID: | Not reported |
| WDID: | 8 33NEC003346 |
| Program Type: | Not reported |
| Adoption Date Of Regulatory Measure: | Not reported |
| Effective Date Of Regulatory Measure: | Not reported |
| Expiration Date Of Regulatory Measure: | Not reported |
| Termination Date Of Regulatory Measure: | Not reported |
| Discharge Name: | Not reported |
| Discharge Address: | Not reported |
| Discharge City: | Not reported |
| Discharge State: | Not reported |
| Discharge Zip: | Not reported |
| Received Date: | 06/13/2017 |
| Processed Date: | 06/29/2017 |
| Status: | Active |
| Status Date: | 06/29/2017 |
| Place Size: | 72797 |
| Place Size Unit: | SqFt |
| Contact: | James Virden |
| Contact Title: | Quality Assurance Manager |
| Contact Phone: | 951-479-9880 |
| Contact Phone Ext: | 206 |
| Contact Email: | production@sorapower.com |
| Operator Name: | Sora Power |
| Operator Address: | 1141 Olympic Drive |
| Operator City: | Corona |
| Operator State: | California |
| Operator Zip: | 92881 |
| Operator Contact: | James Virden |
| Operator Contact Title: | Quality Assurance Manager |
| Operator Contact Phone: | 951-479-9880 |
| Operator Contact Phone Ext: | Not reported |
| Operator Contact Email: | production@sorapower.com |
| Operator Type: | Private Business |
| Developer: | Not reported |
| Developer Address: | Not reported |
| Developer City: | Not reported |
| Developer State: | California |
| Developer Zip: | Not reported |
| Developer Contact: | Not reported |
| Developer Contact Title: | Not reported |

**SORA POWER INC (Continued)** **S113149445**

| | |
|---|---|
| Constype Linear Utility Ind: | Not reported |
| Emergency Phone: | 951-515-1398 |
| Emergency Phone Ext: | Not reported |
| Constype Above Ground Ind: | Not reported |
| Constype Below Ground Ind: | Not reported |
| Constype Cable Line Ind: | Not reported |
| Constype Comm Line Ind: | Not reported |
| Constype Commertial Ind: | Not reported |
| Constype Electrical Line Ind: | Not reported |
| Constype Gas Line Ind: | Not reported |
| Constype Industrial Ind: | Not reported |
| Constype Other Description: | Not reported |
| Constype Other Ind: | Not reported |
| Constype Recons Ind: | Not reported |
| Constype Residential Ind: | Not reported |
| Constype Transport Ind: | Not reported |
| Constype Utility Description: | Not reported |
| Constype Utility Ind: | Not reported |
| Constype Water Sewer Ind: | Not reported |
| Dir Discharge Uswater Ind: | N |
| Receiving Water Name: | Not reported |
| Certifier: | James Virden |
| Certifier Title: | Quality Assurance Manager |
| Certification Date: | 13-JUN-17 |
| Primary Sic: | 3679-Electronic Components, NEC |
| Secondary Sic: | Not reported |
| Tertiary Sic: | Not reported |
| | |
| NPDES Number: | CAS000001 |
| Status: | Active |
| Agency Number: | 0 |
| Region: | 8 |
| Regulatory Measure ID: | 486553 |
| Order Number: | 97-03-DWQ |
| Regulatory Measure Type: | Enrollee |
| Place ID: | Not reported |
| WDID: | 8 33NEC003346 |
| Program Type: | Industrial |
| Adoption Date Of Regulatory Measure: | Not reported |
| Effective Date Of Regulatory Measure: | 06/29/2017 |
| Expiration Date Of Regulatory Measure: | Not reported |
| Termination Date Of Regulatory Measure: | Not reported |
| Discharge Name: | Sora Power |
| Discharge Address: | 1141 Olympic Drive |
| Discharge City: | Corona |
| Discharge State: | California |
| Discharge Zip: | 92881 |
| Received Date: | Not reported |
| Processed Date: | Not reported |
| Status: | Not reported |
| Status Date: | Not reported |
| Place Size: | Not reported |
| Place Size Unit: | Not reported |
| Contact: | Not reported |
| Contact Title: | Not reported |
| Contact Phone: | Not reported |
| Contact Phone Ext: | Not reported |

**SORA POWER INC (Continued)** **S113149445**

| | |
|---|---|
| Contact Email: | Not reported |
| Operator Name: | Not reported |
| Operator Address: | Not reported |
| Operator City: | Not reported |
| Operator State: | Not reported |
| Operator Zip: | Not reported |
| Operator Contact: | Not reported |
| Operator Contact Title: | Not reported |
| Operator Contact Phone: | Not reported |
| Operator Contact Phone Ext: | Not reported |
| Operator Contact Email: | Not reported |
| Operator Type: | Not reported |
| Developer: | Not reported |
| Developer Address: | Not reported |
| Developer City: | Not reported |
| Developer State: | Not reported |
| Developer Zip: | Not reported |
| Developer Contact: | Not reported |
| Developer Contact Title: | Not reported |
| Constype Linear Utility Ind: | Not reported |
| Emergency Phone: | Not reported |
| Emergency Phone Ext: | Not reported |
| Constype Above Ground Ind: | Not reported |
| Constype Below Ground Ind: | Not reported |
| Constype Cable Line Ind: | Not reported |
| Constype Comm Line Ind: | Not reported |
| Constype Commertial Ind: | Not reported |
| Constype Electrical Line Ind: | Not reported |
| Constype Gas Line Ind: | Not reported |
| Constype Industrial Ind: | Not reported |
| Constype Other Description: | Not reported |
| Constype Other Ind: | Not reported |
| Constype Recons Ind: | Not reported |
| Constype Residential Ind: | Not reported |
| Constype Transport Ind: | Not reported |
| Constype Utility Description: | Not reported |
| Constype Utility Ind: | Not reported |
| Constype Water Sewer Ind: | Not reported |
| Dir Discharge Uswater Ind: | Not reported |
| Receiving Water Name: | Not reported |
| Certifier: | Not reported |
| Certifier Title: | Not reported |
| Certification Date: | Not reported |
| Primary Sic: | Not reported |
| Secondary Sic: | Not reported |
| Tertiary Sic: | Not reported |

CIWQS:

| | |
|---|---|
| Name: | SORA POWER |
| Address: | 1141 OLYMPIC DRIVE |
| City,State,Zip: | CORONA, CA 92881 |
| Agency: | Sora Power |
| Agency Address: | 1141 Olympic Drive, Corona, CA 92881 |
| Place/Project Type: | Industrial - Electronic Components, NEC |
| SIC/NAICS: | 3679 |
| Region: | 8 |

**SORA POWER INC (Continued)** **S113149445**

| | |
|---|---|
| Program: | INDSTW |
| Regulatory Measure Status: | Active |
| Regulatory Measure Type: | Storm water industrial |
| Order Number: | 2014-0057-DWQ |
| WDID: | 8 33NEC003346 |
| NPDES Number: | CAS000001 |
| Adoption Date: | Not reported |
| Effective Date: | 06/29/2017 |
| Termination Date: | Not reported |
| Expiration/Review Date: | Not reported |
| Design Flow: | Not reported |
| Major/Minor: | Not reported |
| Complexity: | Not reported |
| TTWQ: | Not reported |
| Enforcement Actions within 5 years: | 0 |
| Violations within 5 years: | 0 |
| Latitude: | 33.86005 |
| Longitude: | -117.54228 |

CERS:

| | |
|---|---|
| Name: | SORA POWER |
| Address: | 1141 OLYMPIC DRIVE |
| City,State,Zip: | CORONA, CA 92881 |
| Site ID: | 542837 |
| CERS ID: | 855480 |
| CERS Description: | Industrial Facility Storm Water |

Affiliation:

| | |
|---|---|
| Affiliation Type Desc: | Owner/Operator |
| Entity Name: | Sora Power |
| Entity Title: | Operator |
| Affiliation Address: | 1141 Olympic Drive |
| Affiliation City: | Corona |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 92881 |
| Affiliation Phone: | , |

| | |
|---|---|
| Name: | SORA POWER INC |
| Address: | 1141 OLYMPIC DR |
| City,State,Zip: | CORONA, CA 92881 |
| Site ID: | 154769 |
| CERS ID: | 10487761 |
| CERS Description: | Chemical Storage Facilities |

Violations:

| | |
|---|---|
| Site ID: | 154769 |
| Site Name: | SORA POWER INC |
| Violation Date: | 10-15-2020 |
| Citation: | HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4) |
| Violation Description: | Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years. |
| Violation Notes: | Returned to compliance on 11/12/2020. OBSERVATION: No trading records specific to the hazardous materials business plan were on site. |

**SORA POWER INC (Continued)** **S113149445**

CORRECTIVE ACTION: Implement and conduct annual employee training specific to the hmbp and its components and maintain records via employee roster for no less than 3 Years. To clear violation email trading roster with topics covered to John.brown@coronaca.gov
Violation Division: Corona Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 154769
Site Name: SORA POWER INC
Violation Date: 10-30-2013
Citation: HSC 6.95 25505(c) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(c)
Violation Description: Failure to review, revise, and recertify the business plan at least once every three years.
Violation Notes: Returned to compliance on 04/17/2014.
Violation Division: Corona Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 154769
Site Name: SORA POWER INC
Violation Date: 10-15-2020
Citation: HSC 6.95 25505(c) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(c)
Violation Description: Failure to have a business plan readily available to personnel of the business or the unified program facility with responsibilities for emergency response or training.
Violation Notes: Returned to compliance on 10/20/2020. OBSERVATION: Emergency contingency plan was not posted on site. CORRECTIVE ACTION: Post emergency contingency plan. To clear violation take a clear photo of the posted emergency plan and email to John.brown@coronaca.gov
Violation Division: Corona Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 154769
Site Name: SORA POWER INC
Violation Date: 11-09-2016
Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description: Business Plan Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 12/29/2016. 104A Add "OX" to the white section of the NFPA placard
Violation Division: Corona Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 154769
Site Name: SORA POWER INC
Violation Date: 11-09-2016
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 12/13/2016. See page 2 of 2 for hazardous

**SORA POWER INC (Continued)** **S113149445**

materials updates
Violation Division: Corona Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-09-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Corona Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-15-2020
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Corona Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-30-2013
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Corona Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 12-29-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Corona Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Enforcement Action:
Site ID: 154769
Site Name: SORA POWER INC
Site Address: 1141 OLYMPIC DR
Site City: CORONA
Site Zip: 92881
Enf Action Date: 10-30-2013
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Corona Fire Department
Enf Action Program: HMRRP
Enf Action Source: CERS,

**SORA POWER INC (Continued)** **S113149445**

Coordinates:
- Site ID: 154769
- Facility Name: SORA POWER INC
- Env Int Type Code: HWG
- Program ID: 10487761
- Coord Name: Not reported
- Ref Point Type Desc: Center of a facility or station.,
- Latitude: 33.860120
- Longitude: -117.542170

Affiliation:
- Affiliation Type Desc: Facility Mailing Address
- Entity Name: Mailing Address
- Entity Title: Not reported
- Affiliation Address: 1141 OLYMPIC DR
- Affiliation City: CORONA
- Affiliation State: CA
- Affiliation Country: Not reported
- Affiliation Zip: Not reported
- Affiliation Phone: ,

- Affiliation Type Desc: Legal Owner
- Entity Name: Ramesh Patel
- Entity Title: Not reported
- Affiliation Address: 1141 OLYMPIC DR
- Affiliation City: CORONA
- Affiliation State: CA
- Affiliation Country: United States
- Affiliation Zip: 92881
- Affiliation Phone: (951) 479-9880,

- Affiliation Type Desc: CUPA District
- Entity Name: Riverside Cnty Env Health
- Entity Title: Not reported
- Affiliation Address: 4065 County Circle Drive, Room 104
- Affiliation City: Riverside
- Affiliation State: CA
- Affiliation Country: Not reported
- Affiliation Zip: 92503
- Affiliation Phone: (951) 358-5055,

- Affiliation Type Desc: Identification Signer
- Entity Name: Remy LaCroix
- Entity Title: V.P of Operations
- Affiliation Address: Not reported
- Affiliation City: Not reported
- Affiliation State: Not reported
- Affiliation Country: Not reported
- Affiliation Zip: Not reported
- Affiliation Phone: ,

- Affiliation Type Desc: Operator
- Entity Name: SORA POWER INC
- Entity Title: Not reported
- Affiliation Address: Not reported
- Affiliation City: Not reported

**SORA POWER INC (Continued)** **S113149445**

Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (951) 479-9880,

Affiliation Type Desc: Property Owner
Entity Name: RAMESH PATEL
Entity Title: Not reported
Affiliation Address: 1141 OLYMPIC DR
Affiliation City: CORONA
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 92881
Affiliation Phone: (714) 926-1112,

Affiliation Type Desc: Document Preparer
Entity Name: Remy LaCroix
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Environmental Contact
Entity Name: REMY LACROIX
Entity Title: Not reported
Affiliation Address: 1141 OLYMPIC DR
Affiliation City: CORONA
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92881
Affiliation Phone: ,

Affiliation Type Desc: Parent Corporation
Entity Name: SORA POWER INC
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

HWTS:
Name: SORA POWER INC
Address: 1141 OLYMPIC DR
Address 2: Not reported
City,State,Zip: CORONA, CA 92881
EPA ID: CAL000323922
Inactive Date: Not reported
Create Date: 08/20/2007
Last Act Date: Not reported
Mailing Name: Not reported
Mailing Address: 1141 OLYMPIC DR

**SORA POWER INC (Continued)** **S113149445**

| | |
|---|---|
| Mailing Address 2: | Not reported |
| Mailing City,State,Zip: | CORONA, CA 928813391 |
| Owner Name: | RAMESH PATEL |
| Owner Address: | 1141 OLYMPIC DR |
| Owner Address 2: | Not reported |
| Owner City,State,Zip: | CORONA, CA 928813391 |
| Contact Name: | MONICA MITCHELL |
| Contact Address: | 1141 OLYMPIC DR |
| Contact Address 2: | Not reported |
| City,State,Zip: | CORONA, CA 92881 |
| Facility Status: | Active |
| Facility Type: | PERMANENT |
| Category: | STATE |
| Latitude: | 33.859551 |
| Longitude: | -117.542316 |

NAICS:

| | |
|---|---|
| EPA ID: | CAL000323922 |
| Create Date: | 2007-08-20 15:51:14.387 |
| NAICS Code: | 334511 |
| NAICS Description: | Search, Detection, Navigation, Guidance, Aeronautical, and Nautical System and Instrument Manufacturing |
| Issued EPA ID Date: | 2007-08-20 15:51:14.37300 |
| Inactive Date: | Not reported |
| Facility Name: | SORA POWER INC |
| Facility Address: | 1141 OLYMPIC DR |
| Facility Address 2: | Not reported |
| Facility City: | CORONA |
| Facility County: | Not reported |
| Facility State: | CA |
| Facility Zip: | 928813391 |

---

**I32** **HOOSIER PLASTIC FABRICATION** **CERS HAZ WASTE** **S123500006**
**NE** **1140 CALIFORNIA AVE** **CERS** **N/A**
**1/8-1/4** **CORONA, CA 92881**
**0.175 mi.**
**924 ft.** **Site 1 of 7 in cluster I**

**Relative:**
**Lower**

**Actual:**
**739 ft.**

CERS HAZ WASTE:

| | |
|---|---|
| Name: | HOOSIER PLASTIC FABRICATION |
| Address: | 1140 CALIFORNIA AVE |
| City,State,Zip: | CORONA, CA 92881 |
| Site ID: | 123198 |
| CERS ID: | 10500871 |
| CERS Description: | Hazardous Waste Generator |

CERS:

| | |
|---|---|
| Name: | HOOSIER PLASTIC FABRICATION |
| Address: | 1140 CALIFORNIA AVE |
| City,State,Zip: | CORONA, CA 92881 |
| Site ID: | 123198 |
| CERS ID: | 10500871 |
| CERS Description: | Chemical Storage Facilities |

Violations:

| | |
|---|---|
| Site ID: | 123198 |
| Site Name: | Hoosier Plastic Fabrication |

**HOOSIER PLASTIC FABRICATION (Continued)** **S123500006**

| | |
|---|---|
| Violation Date: | 01-30-2015 |
| Citation: | 19 CCR 4 2729.2(a)(3) - California Code of Regulations, Title 19, Chapter 4, Section(s) 2729.2(a)(3) |
| Violation Description: | Failure to complete and/or submit an annotated site map if required by CUPA. |
| Violation Notes: | Returned to compliance on 03/03/2015. Add storm & sewer drains, emergency shut offs, staging area, oil locations and spill kit. |
| Violation Division: | Corona Fire Department |
| Violation Program: | HMRRP |
| Violation Source: | CERS, |
| | |
| Site ID: | 123198 |
| Site Name: | Hoosier Plastic Fabrication |
| Violation Date: | 01-30-2015 |
| Citation: | HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple |
| Violation Description: | Business Plan Program - Operations/Maintenance - General |
| Violation Notes: | Returned to compliance on 05/01/2015. Relocate NFPA 704 sign to front of building. |
| Violation Division: | Corona Fire Department |
| Violation Program: | HMRRP |
| Violation Source: | CERS, |
| | |
| Site ID: | 123198 |
| Site Name: | Hoosier Plastic Fabrication |
| Violation Date: | 01-30-2015 |
| Citation: | HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1) |
| Violation Description: | Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities. |
| Violation Notes: | Returned to compliance on 03/03/2015. Add 330 gallons of waste oil to inventory. |
| Violation Division: | Corona Fire Department |
| Violation Program: | HMRRP |
| Violation Source: | CERS, |
| | |
| Site ID: | 123198 |
| Site Name: | Hoosier Plastic Fabrication |
| Violation Date: | 01-18-2018 |
| Citation: | Un-Specified |
| Violation Description: | Business Plan Program - Operations/Maintenance - General Local Ordinance |
| Violation Notes: | Returned to compliance on 02/23/2018. 105B- Propane handling is not recure, cylinders need to be chained to wall. |
| Violation Division: | Corona Fire Department |
| Violation Program: | HMRRP |
| Violation Source: | CERS, |
| | |
| Site ID: | 123198 |
| Site Name: | Hoosier Plastic Fabrication |
| Violation Date: | 01-18-2018 |
| Citation: | Un-Specified |
| Violation Description: | Business Plan Program - Operations/Maintenance - General Local Ordinance |
| Violation Notes: | Returned to compliance on 02/21/2018. NFPA 704 placard’s ratings need to be revised. |

**HOOSIER PLASTIC FABRICATION (Continued)** **S123500006**

Violation Division: Corona Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 123198
Site Name: Hoosier Plastic Fabrication
Violation Date: 01-18-2018
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 05/08/2020. Hazmat inventory is incomplete. Please reviser quantities of the materials (oil, gear oil, etc.), revise the hazardous waste quantity,and re-submit on CERS.* Corrected on submittal dated 1/25/2018*da
Violation Division: Corona Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 123198
Site Name: Hoosier Plastic Fabrication
Violation Date: 06-03-2020
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to establish and electronically submit an adequate emergency response plan and procedures for a release or threatened release of a hazardous material.
Violation Notes: Returned to compliance on 06/15/2020. OBSERVATION: Failure to establish and electronically submit an adequate emergency response plan and procedures for a release or threatened release of a hazardous material. CORRECTIVE ACTION: Update your emergency response / contingency plan and submit into CERS for review and approval by 7/03/20
Violation Division: Corona Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 123198
Site Name: Hoosier Plastic Fabrication
Violation Date: 01-18-2018
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to establish and electronically submit an adequate emergency response plan and procedures for a release or threatened release of a hazardous material.
Violation Notes: Returned to compliance on 05/08/2020. Emergency response plan on CERS is incomplete; section H needs to include portable gas cylinders. * Corrected on submittal dated 1/25/2018
Violation Division: Corona Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-24-2014
Violations Found: No

**HOOSIER PLASTIC FABRICATION (Continued)** **S123500006**

Eval Type: Routine done by local agency
Eval Notes: initial inspection, required to submit, update #325
Eval Division: Corona Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-30-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Add 330 gallons of waste oil to inventory. Add storm & sewer drains, emergency shut offs, staging area, oil locations and spill kit. Relocate NFPA 704 sign to front of building.
Eval Division: Corona Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-18-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Corona Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 06-03-2020
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: E Inspect
Eval Division: Corona Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Enforcement Action:
Site ID: 123198
Site Name: Hoosier Plastic Fabrication
Site Address: 1140 CALIFORNIA AVE
Site City: CORONA
Site Zip: 92881
Enf Action Date: 01-30-2015
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Add 330 gallons of waste oil to inventory. .
Enf Action Division: Corona Fire Department
Enf Action Program: HMRRP
Enf Action Source: CERS,

Site ID: 123198
Site Name: Hoosier Plastic Fabrication
Site Address: 1140 CALIFORNIA AVE
Site City: CORONA
Site Zip: 92881
Enf Action Date: 01-30-2015
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection

**HOOSIER PLASTIC FABRICATION (Continued)** **S123500006**

Enf Action Notes: Add storm & sewer drains, emergency shut offs, staging area, oil locations and spill kit.
Enf Action Division: Corona Fire Department
Enf Action Program: HMRRP
Enf Action Source: CERS,

Coordinates:
Site ID: 123198
Facility Name: Hoosier Plastic Fabrication
Env Int Type Code: HWG
Program ID: 10500871
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.,
Latitude: 33.861110
Longitude: -117.542500

Affiliation:
Affiliation Type Desc: CUPA District
Entity Name: Riverside Cnty Env Health
Entity Title: Not reported
Affiliation Address: 4065 County Circle Drive, Room 104
Affiliation City: Riverside
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92503
Affiliation Phone: (951) 358-5055,

Affiliation Type Desc: Property Owner
Entity Name: Rob Sims
Entity Title: Not reported
Affiliation Address: PO Box 78962
Affiliation City: Corona
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 92877
Affiliation Phone: (951) 272-3070,

Affiliation Type Desc: Environmental Contact
Entity Name: Joe Kimbrel
Entity Title: Not reported
Affiliation Address: PO Box 78962
Affiliation City: Corona
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92887
Affiliation Phone: ,

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: PO Box 78926
Affiliation City: Corona
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92877
Affiliation Phone: ,

**HOOSIER PLASTIC FABRICATION (Continued)** **S123500006**

| | |
|---|---|
| Affiliation Type Desc: | Identification Signer |
| Entity Name: | Joe Kimbrel |
| Entity Title: | Facilities and Safety Manager |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | , |

| | |
|---|---|
| Affiliation Type Desc: | Document Preparer |
| Entity Name: | Joe Kimbrel |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | , |

| | |
|---|---|
| Affiliation Type Desc: | Parent Corporation |
| Entity Name: | Hoosier Plastc Fabrication |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | , |

| | |
|---|---|
| Affiliation Type Desc: | Legal Owner |
| Entity Name: | Rob Sims |
| Entity Title: | Not reported |
| Affiliation Address: | 1152 California Ave |
| Affiliation City: | Corona |
| Affiliation State: | CA |
| Affiliation Country: | United States |
| Affiliation Zip: | 92881 |
| Affiliation Phone: | (951) 272-3070, |

| | |
|---|---|
| Affiliation Type Desc: | Operator |
| Entity Name: | Rob Sims |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | (951) 272-3070, |

**H33** **JS MINUTELLO DDS & RD MINUTELLO DMD MS** **RCRA NonGen / NLR** **1024793953**
**West** **770 MAGNOLIA #2E** **CAL000144369**
**1/8-1/4** **CORONA, CA 91719**
**0.175 mi.**
**925 ft.** **Site 2 of 3 in cluster H**

**Relative:** **Higher**

**Actual:** **821 ft.**

RCRA NonGen / NLR:

| | |
|---|---|
| Date Form Received by Agency: | 19960917 |
| Handler Name: | JS MINUTELLO DDS & RD MINUTELLO DMD MS |
| Handler Address: | 770 MAGNOLIA #2E |
| Handler City,State,Zip: | CORONA, CA 91719-0000 |
| EPA ID: | CAL000144369 |
| Contact Name: | JAMES MINUTELLO |
| Contact Address: | 770 MAGNOLIA AVE STE 2E |
| Contact City,State,Zip: | CORONA, CA 92879 |
| Contact Telephone: | 909-279-7847 |
| Contact Fax: | 000-000-0000 |
| Contact Email: | JIM.MINUTELLO@SBCGLOBAL.NET |
| Contact Title: | Not reported |
| EPA Region: | 09 |
| Land Type: | Not reported |
| Federal Waste Generator Description: | Not a generator, verified |
| Non-Notifier: | Not reported |
| Biennial Report Cycle: | Not reported |
| Accessibility: | Not reported |
| Active Site Indicator: | Handler Activities |
| State District Owner: | Not reported |
| State District: | Not reported |
| Mailing Address: | 770 MAGNOLIA AVE STE 2E |
| Mailing City,State,Zip: | CORONA, CA 92879-0000 |
| Owner Name: | JAMES MINUTELLO, DDS |
| Owner Type: | Other |
| Operator Name: | JAMES MINUTELLO |
| Operator Type: | Other |
| Short-Term Generator Activity: | No |
| Importer Activity: | No |
| Mixed Waste Generator: | No |
| Transporter Activity: | No |
| Transfer Facility Activity: | No |
| Recycler Activity with Storage: | No |
| Small Quantity On-Site Burner Exemption: | No |
| Smelting Melting and Refining Furnace Exemption: | No |
| Underground Injection Control: | No |
| Off-Site Waste Receipt: | No |
| Universal Waste Indicator: | Yes |
| Universal Waste Destination Facility: | Yes |
| Federal Universal Waste: | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site State-Reg Handler: | --- |
| Federal Facility Indicator: | Not reported |
| Hazardous Secondary Material Indicator: | N |
| Sub-Part K Indicator: | Not reported |
| Commercial TSD Indicator: | No |
| Treatment Storage and Disposal Type: | Not reported |
| 2018 GPRA Permit Baseline: | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | Not on the Baseline |
| Permit Renewals Workload Universe: | Not reported |

**JS MINUTELLO DDS & RD MINUTELLO DMD MS (Continued)** **1024793953**

| | |
|---|---|
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 20180905 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | No |
| Manifest Broker: | No |
| Sub-Part P Indicator: | No |

Handler - Owner Operator:

| | |
|---|---|
| Owner/Operator Indicator: | Operator |
| Owner/Operator Name: | JAMES MINUTELLO |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 770 MAGNOLIA AVE STE 2E |
| Owner/Operator City,State,Zip: | CORONA, CA 92879 |
| Owner/Operator Telephone: | 909-279-7847 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

| | |
|---|---|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | JAMES MINUTELLO, DDS |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 770 MAGNOLIA AVE STE 2E |
| Owner/Operator City,State,Zip: | CORONA, CA 92879-0000 |
| Owner/Operator Telephone: | 909-279-7847 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

**JS MINUTELLO DDS & RD MINUTELLO DMD MS (Continued)** **1024793953**

Historic Generators:
- Receive Date: 19960917
- Handler Name: JS MINUTELLO DDS & RD MINUTELLO DMD MS
- Federal Waste Generator Description: Not a generator, verified
- State District Owner: Not reported
- Large Quantity Handler of Universal Waste: No
- Recognized Trader Importer: No
- Recognized Trader Exporter: No
- Spent Lead Acid Battery Importer: No
- Spent Lead Acid Battery Exporter: No
- Current Record: Yes
- Non Storage Recycler Activity: Not reported
- Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
- NAICS Code: 62121
- NAICS Description: OFFICES OF DENTISTS

Facility Has Received Notices of Violations:
- Violations: No Violations Found

Evaluation Action Summary:
- Evaluations: No Evaluations Found

---

**H34** **BABAK ROSHDIEH M.D. CORP** **RCRA NonGen / NLR** **1026808081**
**West** **770 MAGNOLIA AVENUE STE 2G** **CAC003120381**
**1/8-1/4** **CORONA, CA 92879**
**0.175 mi.**
**925 ft.** **Site 3 of 3 in cluster H**

**Relative:** **Higher**

**Actual:** **821 ft.**

RCRA NonGen / NLR:
- Date Form Received by Agency: 20210519
- Handler Name: BABAK ROSHDIEH M.D. CORP
- Handler Address: 770 MAGNOLIA AVENUE STE 2G
- Handler City,State,Zip: CORONA, CA 92879
- EPA ID: CAC003120381
- Contact Name: BABAK ROSHDIEH
- Contact Address: 770 MAGNOLIA AVENUE STE 2G
- Contact City,State,Zip: CORONA, CA 92879
- Contact Telephone: 951-734-6500
- Contact Fax: Not reported
- Contact Email: BRCORONADERM@GMAIL.COM
- Contact Title: Not reported
- EPA Region: 09
- Land Type: Not reported
- Federal Waste Generator Description: Not a generator, verified
- Non-Notifier: Not reported
- Biennial Report Cycle: Not reported
- Accessibility: Not reported
- Active Site Indicator: Not reported
- State District Owner: Not reported
- State District: Not reported
- Mailing Address: 770 MAGNOLIA AVENUE STE 2G
- Mailing City,State,Zip: CORONA, CA 92879
- Owner Name: BABAK ROSHDIEH

**BABAK ROSHDIEH M.D. CORP (Continued)** **1026808081**

| | |
|---|---|
| Owner Type: | Other |
| Operator Name: | BABAK ROSHDIEH |
| Operator Type: | Other |
| Short-Term Generator Activity: | No |
| Importer Activity: | No |
| Mixed Waste Generator: | No |
| Transporter Activity: | No |
| Transfer Facility Activity: | No |
| Recycler Activity with Storage: | No |
| Small Quantity On-Site Burner Exemption: | No |
| Smelting Melting and Refining Furnace Exemption: | No |
| Underground Injection Control: | No |
| Off-Site Waste Receipt: | No |
| Universal Waste Indicator: | No |
| Universal Waste Destination Facility: | No |
| Federal Universal Waste: | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site State-Reg Handler: | --- |
| Federal Facility Indicator: | Not reported |
| Hazardous Secondary Material Indicator: | N |
| Sub-Part K Indicator: | Not reported |
| Commercial TSD Indicator: | No |
| Treatment Storage and Disposal Type: | Not reported |
| 2018 GPRA Permit Baseline: | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | Not on the Baseline |
| Permit Renewals Workload Universe: | Not reported |
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 20210521 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | No |
| Manifest Broker: | No |

**BABAK ROSHDIEH M.D. CORP (Continued)** **1026808081**

Sub-Part P Indicator: No

Handler - Owner Operator:
Owner/Operator Indicator: Operator
Owner/Operator Name: BABAK ROSHDIEH
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 770 MAGNOLIA AVENUE STE 2G
Owner/Operator City,State,Zip: CORONA, CA 92879
Owner/Operator Telephone: 951-734-6500
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: BABAK ROSHDIEH
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 770 MAGNOLIA AVENUE STE 2G
Owner/Operator City,State,Zip: CORONA, CA 92879
Owner/Operator Telephone: 951-734-6500
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20210519
Handler Name: BABAK ROSHDIEH M.D. CORP
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

List of NAICS Codes and Descriptions:
NAICS Code: 621511
NAICS Description: MEDICAL LABORATORIES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

**J35** **JIM FORD** **RCRA NonGen / NLR** **1026821669**
**NW** **1626 CONIFER CIRCLE** **CAC003134598**
**1/8-1/4** **CORONA, CA 92879**
**0.190 mi.**
**1004 ft.** **Site 1 of 3 in cluster J**

**Relative:** **Lower**

**Actual:** **775 ft.**

RCRA NonGen / NLR:

| | | |
|---|---|---|
| Date Form Received by Agency: | | 20210816 |
| Handler Name: | JIM FORD | |
| Handler Address: | | 1626 CONIFER CIRCLE |
| Handler City,State,Zip: | | CORONA, CA 92879 |
| EPA ID: | | CAC003134598 |
| Contact Name: | | JIM FORD |
| Contact Address: | | 1626 CONIFER CIRCLE |
| Contact City,State,Zip: | | CORONA, CA 92879 |
| Contact Telephone: | | 951-403-2787 |
| Contact Fax: | | Not reported |
| Contact Email: | | JRJRFORD@GMAIL.COM |
| Contact Title: | | Not reported |
| EPA Region: | | 09 |
| Land Type: | | Not reported |
| Federal Waste Generator Description: | | Not a generator, verified |
| Non-Notifier: | | Not reported |
| Biennial Report Cycle: | | Not reported |
| Accessibility: | | Not reported |
| Active Site Indicator: | | Not reported |
| State District Owner: | | Not reported |
| State District: | | Not reported |
| Mailing Address: | | 1626 CONIFER CIRCLE |
| Mailing City,State,Zip: | | CORONA, CA 92879 |
| Owner Name: | | JIM FORD |
| Owner Type: | | Other |
| Operator Name: | | JIM FORD |
| Operator Type: | | Other |
| Short-Term Generator Activity: | | No |
| Importer Activity: | | No |
| Mixed Waste Generator: | | No |
| Transporter Activity: | | No |
| Transfer Facility Activity: | | No |
| Recycler Activity with Storage: | | No |
| Small Quantity On-Site Burner Exemption: | | No |
| Smelting Melting and Refining Furnace Exemption: | | No |
| Underground Injection Control: | | No |
| Off-Site Waste Receipt: | | No |
| Universal Waste Indicator: | | No |
| Universal Waste Destination Facility: | | No |
| Federal Universal Waste: | | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | | Not reported |
| Active Site State-Reg Handler: | | --- |
| Federal Facility Indicator: | | Not reported |
| Hazardous Secondary Material Indicator: | | N |
| Sub-Part K Indicator: | | Not reported |
| Commercial TSD Indicator: | | No |
| Treatment Storage and Disposal Type: | | Not reported |
| 2018 GPRA Permit Baseline: | | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | | Not on the Baseline |
| Permit Renewals Workload Universe: | | Not reported |

**JIM FORD (Continued)** **1026821669**

| | |
|---|---|
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 20210816 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | No |
| Manifest Broker: | No |
| Sub-Part P Indicator: | No |

Handler - Owner Operator:

| | |
|---|---|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | JIM FORD |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 1626 CONIFER CIRCLE |
| Owner/Operator City,State,Zip: | CORONA, CA 92879 |
| Owner/Operator Telephone: | 951-403-2787 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

| | |
|---|---|
| Owner/Operator Indicator: | Operator |
| Owner/Operator Name: | JIM FORD |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 1626 CONIFER CIRCLE |
| Owner/Operator City,State,Zip: | CORONA, CA 92879 |
| Owner/Operator Telephone: | 951-403-2787 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

**JIM FORD (Continued)** **1026821669**

Historic Generators:
Receive Date: 20210816
Handler Name: JIM FORD
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

List of NAICS Codes and Descriptions:
NAICS Code: 56299
NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

---

**I36** **LIGHTHOUSE PACKAGING LLC** **RCRA NonGen / NLR** **1026721599**
**NE** **1148 CALIFORNIA AVE** **CAL000427998**
**1/8-1/4** **CORONA, CA 92881**
**0.194 mi.**
**1024 ft.** **Site 2 of 7 in cluster I**

**Relative:** **Lower**

**Actual:** **737 ft.**

RCRA NonGen / NLR:
Date Form Received by Agency: 20170524
Handler Name: LIGHTHOUSE PACKAGING LLC
Handler Address: 1148 CALIFORNIA AVE
Handler City,State,Zip: CORONA, CA 92881
EPA ID: CAL000427998
Contact Name: JULIE CLARK
Contact Address: 1148 CALIFORNIA AVE
Contact City,State,Zip: CORONA, CA 92881
Contact Telephone: 951-737-7335
Contact Fax: 951-737-7339
Contact Email: J.CLARK@LIGHTHOUSEPACK.COM
Contact Title: Not reported
EPA Region: 09
Land Type: Not reported
Federal Waste Generator Description: Not a generator, verified
Non-Notifier: Not reported
Biennial Report Cycle: Not reported
Accessibility: Not reported
Active Site Indicator: Not reported
State District Owner: Not reported
State District: Not reported
Mailing Address: 1148 CALIFORNIA AVE
Mailing City,State,Zip: CORONA, CA 92881
Owner Name: LIGHTHOUSE PACKAGING LLC

**LIGHTHOUSE PACKAGING LLC (Continued)** **1026721599**

| | |
|---|---|
| Owner Type: | Other |
| Operator Name: | JULIE CLARK |
| Operator Type: | Other |
| Short-Term Generator Activity: | No |
| Importer Activity: | No |
| Mixed Waste Generator: | No |
| Transporter Activity: | No |
| Transfer Facility Activity: | No |
| Recycler Activity with Storage: | No |
| Small Quantity On-Site Burner Exemption: | No |
| Smelting Melting and Refining Furnace Exemption: | No |
| Underground Injection Control: | No |
| Off-Site Waste Receipt: | No |
| Universal Waste Indicator: | No |
| Universal Waste Destination Facility: | No |
| Federal Universal Waste: | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site State-Reg Handler: | --- |
| Federal Facility Indicator: | Not reported |
| Hazardous Secondary Material Indicator: | N |
| Sub-Part K Indicator: | Not reported |
| Commercial TSD Indicator: | No |
| Treatment Storage and Disposal Type: | Not reported |
| 2018 GPRA Permit Baseline: | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | Not on the Baseline |
| Permit Renewals Workload Universe: | Not reported |
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 20210226 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | No |
| Manifest Broker: | No |

**LIGHTHOUSE PACKAGING LLC (Continued)** **1026721599**

Sub-Part P Indicator: No

Handler - Owner Operator:

| | |
|---|---|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | LIGHTHOUSE PACKAGING LLC |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 1148 CALIFORNIA AVE |
| Owner/Operator City,State,Zip: | CORONA, CA 92881 |
| Owner/Operator Telephone: | 951-737-7335 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

| | |
|---|---|
| Owner/Operator Indicator: | Operator |
| Owner/Operator Name: | JULIE CLARK |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 1148 CALIFORNIA AVE |
| Owner/Operator City,State,Zip: | CORONA, CA 92881 |
| Owner/Operator Telephone: | 951-737-7335 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

Historic Generators:

| | |
|---|---|
| Receive Date: | 20170524 |
| Handler Name: | LIGHTHOUSE PACKAGING LLC |
| Federal Waste Generator Description: | Not a generator, verified |
| State District Owner: | Not reported |
| Large Quantity Handler of Universal Waste: | No |
| Recognized Trader Importer: | No |
| Recognized Trader Exporter: | No |
| Spent Lead Acid Battery Importer: | No |
| Spent Lead Acid Battery Exporter: | No |
| Current Record: | Yes |
| Non Storage Recycler Activity: | Not reported |
| Electronic Manifest Broker: | Not reported |

List of NAICS Codes and Descriptions:

| | |
|---|---|
| NAICS Code: | 32616 |
| NAICS Description: | PLASTICS BOTTLE MANUFACTURING |

Facility Has Received Notices of Violations:

| | |
|---|---|
| Violations: | No Violations Found |

Evaluation Action Summary:

| | |
|---|---|
| Evaluations: | No Evaluations Found |

**I37**
**NE**
**1/8-1/4**
**0.194 mi.**
**1024 ft.**

**Relative:**
**Lower**

**Actual:**
**737 ft.**

**CHEMSTAR URETHANES INC**
**1148 CALIFORNIA AVE**
**CORONA, CA 92881**

**Site 3 of 7 in cluster I**

**Database(s):** RCRA-SQG, FINDS, ECHO, HAZNET, WDS, CIWQS, HWTS

**EDR ID Number:** 1000596984
**EPA ID Number:** CAD983609777

RCRA-SQG:

| | |
|---|---|
| Date Form Received by Agency: | 19911024 |
| Handler Name: | CHEMSTAR URETHANES INC |
| Handler Address: | 1148 CALIFORNIA AVE |
| Handler City,State,Zip: | CORONA, CA 92882 |
| EPA ID: | CAD983609777 |
| Contact Name: | RICK KULJIAN |
| Contact Address: | 1148 CALIFORNIA AVE |
| Contact City,State,Zip: | CORONA, CA 91719 |
| Contact Telephone: | 714-735-6522 |
| Contact Fax: | Not reported |
| Contact Email: | Not reported |
| Contact Title: | Not reported |
| EPA Region: | 09 |
| Land Type: | Private |
| Federal Waste Generator Description: | Small Quantity Generator |
| Non-Notifier: | Not reported |
| Biennial Report Cycle: | Not reported |
| Accessibility: | Not reported |
| Active Site Indicator: | Handler Activities |
| State District Owner: | Not reported |
| State District: | Not reported |
| Mailing Address: | 1148 CALIFORNIA AVE |
| Mailing City,State,Zip: | CORONA, CA 92882 |
| Owner Name: | ABRAHAM AND MIN ABDI |
| Owner Type: | Private |
| Operator Name: | Not reported |
| Operator Type: | Not reported |
| Short-Term Generator Activity: | No |
| Importer Activity: | No |
| Mixed Waste Generator: | No |
| Transporter Activity: | No |
| Transfer Facility Activity: | No |
| Recycler Activity with Storage: | No |
| Small Quantity On-Site Burner Exemption: | No |
| Smelting Melting and Refining Furnace Exemption: | No |
| Underground Injection Control: | No |
| Off-Site Waste Receipt: | No |
| Universal Waste Indicator: | No |
| Universal Waste Destination Facility: | No |
| Federal Universal Waste: | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site State-Reg Handler: | --- |
| Federal Facility Indicator: | Not reported |
| Hazardous Secondary Material Indicator: | NN |
| Sub-Part K Indicator: | Not reported |
| Commercial TSD Indicator: | No |
| Treatment Storage and Disposal Type: | Not reported |
| 2018 GPRA Permit Baseline: | Not on the Baseline |

**CHEMSTAR URETHANES INC (Continued)** **1000596984**

| | |
|---|---|
| 2018 GPRA Renewals Baseline: | Not on the Baseline |
| Permit Renewals Workload Universe: | Not reported |
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 20020627 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | Not reported |
| Manifest Broker: | Not reported |
| Sub-Part P Indicator: | No |

Handler - Owner Operator:

| | |
|---|---|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | ABRAHAM AND MIN ABDI |
| Legal Status: | Private |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 1121 CALIFORNIA AVE |
| Owner/Operator City,State,Zip: | CORONA, CA 91719 |
| Owner/Operator Telephone: | 714-737-6040 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

Historic Generators:

| | |
|---|---|
| Receive Date: | 19911024 |
| Handler Name: | CHEMSTAR URETHANES INC |
| Federal Waste Generator Description: | Small Quantity Generator |
| State District Owner: | Not reported |
| Large Quantity Handler of Universal Waste: | No |
| Recognized Trader Importer: | No |
| Recognized Trader Exporter: | No |
| Spent Lead Acid Battery Importer: | No |

**CHEMSTAR URETHANES INC (Continued)** **1000596984**

Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 325211
NAICS Description: PLASTICS MATERIAL AND RESIN MANUFACTURING

Facility Has Received Notices of Violation:
Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 20051117
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 501
Date of Enforcement Action: 20051117
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Evaluation Action Summary:
Evaluation Date: 20051117
Evaluation Responsible Agency: Local
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: Not reported
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: Not reported

**CHEMSTAR URETHANES INC (Continued)** **1000596984**

| | |
|---|---|
| Scheduled Compliance Date: | Not reported |
| Date of Request: | Not reported |
| Date Response Received: | Not reported |
| Request Agency: | Not reported |
| Former Citation: | Not reported |

FINDS:
Registry ID: 110071050774

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.
Registry ID: 110008282517

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
US EPA Enforcement Criminal Records Management System (ECRM), now called the Criminal Case Reporting System (CCRS), is the Criminal Investigation Division's (CID) "official record" of all criminal investigation activities. The system maintains and tracks case-specific program and investigative information on over 8,200 active and archived criminal cases. CCRS is an EPA-only system and data entry is performed directly by CID employees. The Public is allowed to obtain only select defendant data fields for closed, convicted cases via the Freedom of Information Act.
California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

| | |
|---|---|
| Envid: | 1000596984 |
| Registry ID: | 110008282517 |
| DFR URL: | http://echo.epa.gov/detailed-facility-report?fid=110008282517 |
| Name: | CHEMSTAR URETHANES INC |
| Address: | 1148 CALIFORNIA AVE |
| City,State,Zip: | CORONA, CA 92881 |

HAZNET:

| | |
|---|---|
| Name: | CHEMSTAR URETHANES INC |
| Address: | 1148 CALIFORNIA AVE |

**CHEMSTAR URETHANES INC (Continued)** **1000596984**

| | |
|---|---|
| Address 2: | Not reported |
| City,State,Zip: | CORONA, CA 928813324 |
| Contact: | GORDON KULJIAN/PRES |
| Telephone: | 9517356522 |
| Mailing Name: | Not reported |
| Mailing Address: | 1148 CALIFORNIA AVE |
| Year: | 2006 |
| Gepaid: | CAD983609777 |
| TSD EPA ID: | CAT080013352 |
| CA Waste Code: | 343 - Unspecified organic liquid mixture |
| Disposal Method: | R01 - Recycler |
| Tons: | 0.187 |
| Year: | 2006 |
| Gepaid: | CAD983609777 |
| TSD EPA ID: | CAD044429835 |
| CA Waste Code: | 331 - Off-specification, aged or surplus organics |
| Disposal Method: | D99 - Disposal, Other |
| Tons: | 0.33 |
| Year: | 2006 |
| Gepaid: | CAD983609777 |
| TSD EPA ID: | AZC950823111 |
| CA Waste Code: | 352 - Other organic solids |
| Disposal Method: | - |
| Tons: | 19.2 |
| Year: | 2006 |
| Gepaid: | CAD983609777 |
| TSD EPA ID: | ARD981057870 |
| CA Waste Code: | 343 - Unspecified organic liquid mixture |
| Disposal Method: | - |
| Tons: | 0.425 |
| Year: | 2006 |
| Gepaid: | CAD983609777 |
| TSD EPA ID: | AZR000002428 |
| CA Waste Code: | 343 - Unspecified organic liquid mixture |
| Disposal Method: | D80 - Disposal, Land Fill |
| Tons: | 13.6 |
| Year: | 2006 |
| Gepaid: | CAD983609777 |
| TSD EPA ID: | NVT330010000 |
| CA Waste Code: | 352 - Other organic solids |
| Disposal Method: | D80 - Disposal, Land Fill |
| Tons: | 5.3 |
| Year: | 2005 |
| Gepaid: | CAD983609777 |
| TSD EPA ID: | Not reported |
| CA Waste Code: | 352 - Other organic solids |
| Disposal Method: | - |
| Tons: | Not reported |
| Year: | 2005 |

**CHEMSTAR URETHANES INC (Continued)** **1000596984**

| | |
|---|---|
| Gepaid: | CAD983609777 |
| TSD EPA ID: | AZC950823111 |
| CA Waste Code: | 352 - Other organic solids |
| Disposal Method: | - |
| Tons: | 20 |
| | |
| Year: | 2005 |
| Gepaid: | CAD983609777 |
| TSD EPA ID: | AZC950823111 |
| CA Waste Code: | 352 - Other organic solids |
| Disposal Method: | D80 - Disposal, Land Fill |
| Tons: | 20 |
| | |
| Year: | 2005 |
| Gepaid: | CAD983609777 |
| TSD EPA ID: | AZR000002428 |
| CA Waste Code: | 343 - Unspecified organic liquid mixture |
| Disposal Method: | D80 - Disposal, Land Fill |
| Tons: | 33.32 |

Click this hyperlink while viewing on your computer to access
27 additional CA HAZNET: record(s) in the EDR Site Report.

Additional Info:

| | |
|---|---|
| Year: | 2000 |
| Gen EPA ID: | CAD983609777 |
| | |
| Shipment Date: | 20001214 |
| Creation Date: | 2/1/2001 0:00:00 |
| Receipt Date: | 20001214 |
| Manifest ID: | 20883802 |
| Trans EPA ID: | CA0000970392 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD008302903 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAD008302903 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 343 - Unspecified organic liquid mixture |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 16.66 |
| Waste Quantity: | 4900 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20001110 |
| Creation Date: | 1/9/2001 0:00:00 |
| Receipt Date: | 20001110 |
| Manifest ID: | 20882811 |
| Trans EPA ID: | CA0000970392 |

**CHEMSTAR URETHANES INC (Continued)** **1000596984**

| | |
|---|---|
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD008302903 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 343 - Unspecified organic liquid mixture |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 15.3 |
| Waste Quantity: | 4500 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20001006 |
| Creation Date: | 12/8/2000 0:00:00 |
| Receipt Date: | 20001006 |
| Manifest ID: | 20501194 |
| Trans EPA ID: | CA0000970392 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD008302903 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAD008302903 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 343 - Unspecified organic liquid mixture |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 17 |
| Waste Quantity: | 5000 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20000831 |
| Creation Date: | 10/23/2000 0:00:00 |
| Receipt Date: | 20000831 |
| Manifest ID: | 20465042 |
| Trans EPA ID: | CAD000970392 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD008302903 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAD008302903 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 343 - Unspecified organic liquid mixture |
| RCRA Code: | Not reported |

**CHEMSTAR URETHANES INC (Continued)** **1000596984**

| | |
|---|---|
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 17 |
| Waste Quantity: | 5000 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20000809 |
| Creation Date: | 9/25/2000 0:00:00 |
| Receipt Date: | 20000809 |
| Manifest ID: | 20468650 |
| Trans EPA ID: | CA0000970392 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD008302903 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAD008302903 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 343 - Unspecified organic liquid mixture |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 17 |
| Waste Quantity: | 5000 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20000628 |
| Creation Date: | 8/14/2000 0:00:00 |
| Receipt Date: | 20000628 |
| Manifest ID: | 20276049 |
| Trans EPA ID: | CA0000970392 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD008302903 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAD008302903 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 343 - Unspecified organic liquid mixture |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 17 |
| Waste Quantity: | 5000 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

**CHEMSTAR URETHANES INC (Continued)** **1000596984**

| | |
|---|---|
| Shipment Date: | 20000601 |
| Creation Date: | 7/12/2000 0:00:00 |
| Receipt Date: | 20000601 |
| Manifest ID: | 20258053 |
| Trans EPA ID: | CA0000970392 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD008302903 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAD008302903 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 343 - Unspecified organic liquid mixture |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 12.58 |
| Waste Quantity: | 3700 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20000517 |
| Creation Date: | 7/12/2000 0:00:00 |
| Receipt Date: | 20000518 |
| Manifest ID: | 20259276 |
| Trans EPA ID: | CA0000970392 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD008302903 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAD008302903 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 343 - Unspecified organic liquid mixture |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 17 |
| Waste Quantity: | 5000 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20000306 |
| Creation Date: | 5/3/2000 0:00:00 |
| Receipt Date: | 20000308 |
| Manifest ID: | 20212103 |
| Trans EPA ID: | CA0000970392 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD008302903 |

**CHEMSTAR URETHANES INC (Continued)** **1000596984**

| | |
|---|---|
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAD008302903 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 343 - Unspecified organic liquid mixture |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 14.96 |
| Waste Quantity: | 4400 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20000113 |
| Creation Date: | 3/7/2000 0:00:00 |
| Receipt Date: | 20000113 |
| Manifest ID: | 99788202 |
| Trans EPA ID: | CA0000970392 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD008302903 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAD008302903 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 343 - Unspecified organic liquid mixture |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 17 |
| Waste Quantity: | 5000 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 1999 |
| Gen EPA ID: | CAD983609777 |

| | |
|---|---|
| Shipment Date: | 19991208 |
| Creation Date: | 2/1/2000 0:00:00 |
| Receipt Date: | 19991208 |
| Manifest ID: | 99377351 |
| Trans EPA ID: | CA0000970392 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD008302903 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAD008302903 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 343 - Unspecified organic liquid mixture |
| RCRA Code: | Not reported |

**CHEMSTAR URETHANES INC (Continued)** **1000596984**

| | |
|---|---|
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 16.49 |
| Waste Quantity: | 4850 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 19991021 |
| Creation Date: | 12/16/1999 0:00:00 |
| Receipt Date: | 19991021 |
| Manifest ID: | 99368976 |
| Trans EPA ID: | CA0000970392 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD008302903 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAD008302903 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 343 - Unspecified organic liquid mixture |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 16.32 |
| Waste Quantity: | 4800 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 19990921 |
| Creation Date: | 11/16/1999 0:00:00 |
| Receipt Date: | 19990921 |
| Manifest ID: | 99492208 |
| Trans EPA ID: | CA0000970392 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD008302903 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAD008302903 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 343 - Unspecified organic liquid mixture |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 17 |
| Waste Quantity: | 5000 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

**CHEMSTAR URETHANES INC (Continued)** **1000596984**

| | |
|---|---|
| Shipment Date: | 19990811 |
| Creation Date: | 9/23/1999 0:00:00 |
| Receipt Date: | 19990811 |
| Manifest ID: | 99582476 |
| Trans EPA ID: | CA0000970392 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD008302903 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAD008302903 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 343 - Unspecified organic liquid mixture |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 17 |
| Waste Quantity: | 5000 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 19990628 |
| Creation Date: | 8/16/1999 0:00:00 |
| Receipt Date: | 19990628 |
| Manifest ID: | 99336797 |
| Trans EPA ID: | CA0000970392 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD008302903 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 343 - Unspecified organic liquid mixture |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 17 |
| Waste Quantity: | 5000 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 19990527 |
| Creation Date: | 7/7/1999 0:00:00 |
| Receipt Date: | 19990527 |
| Manifest ID: | 98893518 |
| Trans EPA ID: | CAD980585293 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD008302903 |

**CHEMSTAR URETHANES INC (Continued)** **1000596984**

| | |
|---|---|
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 331 - Off-specification, aged, or surplus organics |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 16.5 |
| Waste Quantity: | 5000 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 19990427 |
| Creation Date: | 5/27/1999 0:00:00 |
| Receipt Date: | 19990427 |
| Manifest ID: | 98893772 |
| Trans EPA ID: | CAD980585293 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD008302903 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 331 - Off-specification, aged, or surplus organics |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 16.5 |
| Waste Quantity: | 5000 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2004 |
| Gen EPA ID: | CAD983609777 |

| | |
|---|---|
| Shipment Date: | 20041228 |
| Creation Date: | 3/13/2007 18:30:13 |
| Receipt Date: | 20041228 |
| Manifest ID: | 24280006 |
| Trans EPA ID: | CAD981425853 |
| Trans Name: | HOYT TRANSPORTATION INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | AZC950823111 |
| Trans Name: | LA PAZ COUNTY LANDFILL |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 352 - Other organic solids |
| RCRA Code: | Not reported |

**CHEMSTAR URETHANES INC (Continued)** **1000596984**

| | |
|---|---|
| Meth Code: | - Not reported |
| Quantity Tons: | Not reported |
| Waste Quantity: | Not reported |
| Quantity Unit: | Not reported |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20041228 |
| Creation Date: | 3/13/2007 18:30:13 |
| Receipt Date: | 20041228 |
| Manifest ID: | 24280006 |
| Trans EPA ID: | CAD981425853 |
| Trans Name: | HOYT TRANSPORTATION INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | AZC950823111 |
| Trans Name: | LA PAZ COUNTY LANDFILL |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 352 - Other organic solids |
| RCRA Code: | Not reported |
| Meth Code: | - Not reported |
| Quantity Tons: | Not reported |
| Waste Quantity: | Not reported |
| Quantity Unit: | Not reported |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20041112 |
| Creation Date: | 1/20/2005 18:30:36 |
| Receipt Date: | 20041112 |
| Manifest ID: | 23542827 |
| Trans EPA ID: | CAL000207677 |
| Trans Name: | JCPE |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | AZR000002428 |
| Trans Name: | COPPER MOUNTAIN |
| TSDF Alt EPA ID: | AZR000002428 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 343 - Unspecified organic liquid mixture |
| RCRA Code: | NONE |
| Meth Code: | D80 - Disposal, Land Fill |
| Quantity Tons: | 16.32 |
| Waste Quantity: | 4800 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

**CHEMSTAR URETHANES INC (Continued)** **1000596984**

| | |
|---|---|
| Shipment Date: | 20040309 |
| Creation Date: | 1/5/2007 18:31:00 |
| Receipt Date: | 20040312 |
| Manifest ID: | 23542853 |
| Trans EPA ID: | CAL000207677 |
| Trans Name: | JCPE ENTERPRISES |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | NVT330010000 |
| Trans Name: | US ECOLOGY |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 343 - Unspecified organic liquid mixture |
| RCRA Code: | Not reported |
| Meth Code: | D99 - Disposal, Other |
| Quantity Tons: | 15.64 |
| Waste Quantity: | 4600 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2006 |
| Gen EPA ID: | CAD983609777 |

| | |
|---|---|
| Shipment Date: | 20060629 |
| Creation Date: | 9/14/2006 18:39:29 |
| Receipt Date: | 20060705 |
| Manifest ID: | 25178596 |
| Trans EPA ID: | CA0000970392 |
| Trans Name: | ENVIRONMENTAL RECOVERY SERVICES INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD044429835 |
| Trans Name: | TERIS WEST |
| TSDF Alt EPA ID: | CAD044429835 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 331 - Off-specification, aged, or surplus organics |
| RCRA Code: | D002 |
| Meth Code: | D99 - Disposal, Other |
| Quantity Tons: | 0.0495 |
| Waste Quantity: | 15 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20060629 |
| Creation Date: | 9/8/2006 18:31:48 |
| Receipt Date: | 20060707 |
| Manifest ID: | 25178598 |
| Trans EPA ID: | CA0000970392 |

**CHEMSTAR URETHANES INC (Continued)** **1000596984**

| | |
|---|---|
| Trans Name: | ENVIRONMENTAL RECOVERY SERVICES INC |
| Trans 2 EPA ID: | CAR000155366 |
| Trans 2 Name: | CALDERA S TRUCKING |
| TSDF EPA ID: | NVT330010000 |
| Trans Name: | US ECOLOGY |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 352 - Other organic solids |
| RCRA Code: | Not reported |
| Meth Code: | D80 - Disposal, Land Fill |
| Quantity Tons: | 1.25 |
| Waste Quantity: | 2500 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20060629 |
| Creation Date: | 9/13/2006 18:30:23 |
| Receipt Date: | 20060711 |
| Manifest ID: | 25178595 |
| Trans EPA ID: | CA0000970392 |
| Trans Name: | ENVIRONMENTAL RECOVERY SERVICES INC |
| Trans 2 EPA ID: | NJD986607380 |
| Trans 2 Name: | MAUMEE EXPRESS ID #778 |
| TSDF EPA ID: | ARD981057870 |
| Trans Name: | RINECO |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 343 - Unspecified organic liquid mixture |
| RCRA Code: | Not reported |
| Meth Code: | - Not reported |
| Quantity Tons: | 0.425 |
| Waste Quantity: | 125 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20060629 |
| Creation Date: | 9/8/2006 18:31:48 |
| Receipt Date: | 20060707 |
| Manifest ID: | 25178598 |
| Trans EPA ID: | CA0000970392 |
| Trans Name: | ENVIRONMENTAL RECOVERY SERVICES INC |
| Trans 2 EPA ID: | CAR000155366 |
| Trans 2 Name: | CALDERA S TRUCKING |
| TSDF EPA ID: | NVT330010000 |
| Trans Name: | US ECOLOGY |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 352 - Other organic solids |
| RCRA Code: | Not reported |

**CHEMSTAR URETHANES INC (Continued)** **1000596984**

| | |
|---|---|
| Meth Code: | D80 - Disposal, Land Fill |
| Quantity Tons: | 4.05 |
| Waste Quantity: | 8100 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20060629 |
| Creation Date: | 9/14/2006 18:39:29 |
| Receipt Date: | 20060705 |
| Manifest ID: | 25178596 |
| Trans EPA ID: | CA0000970392 |
| Trans Name: | ENVIRONMENTAL RECOVERY SERVICES INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD044429835 |
| Trans Name: | TERIS WEST |
| TSDF Alt EPA ID: | CAD044429835 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 331 - Off-specification, aged, or surplus organics |
| RCRA Code: | D002 |
| Meth Code: | D99 - Disposal, Other |
| Quantity Tons: | 0.2805 |
| Waste Quantity: | 85 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20060629 |
| Creation Date: | 9/17/2006 18:32:40 |
| Receipt Date: | 20060707 |
| Manifest ID: | 25178597 |
| Trans EPA ID: | CA0000970392 |
| Trans Name: | ENVIRONMENTAL RECOVERY SERVICES INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080013352 |
| Trans Name: | DEMENNO KERDOON |
| TSDF Alt EPA ID: | CAT080013352 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 343 - Unspecified organic liquid mixture |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.187 |
| Waste Quantity: | 55 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

**CHEMSTAR URETHANES INC (Continued)** **1000596984**

| | |
|---|---|
| Shipment Date: | 20060420 |
| Creation Date: | 7/29/2006 18:34:05 |
| Receipt Date: | 20060426 |
| Manifest ID: | 25188311 |
| Trans EPA ID: | CA0000970392 |
| Trans Name: | ENVIRONMENTAL RECOVERY SERVICES INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | AZC950823111 |
| Trans Name: | LA PAZ COUNTY LANDFILL |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 352 - Other organic solids |
| RCRA Code: | Not reported |
| Meth Code: | - Not reported |
| Quantity Tons: | 19.2 |
| Waste Quantity: | 38400 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20060316 |
| Creation Date: | 7/27/2006 18:32:43 |
| Receipt Date: | 20060317 |
| Manifest ID: | 23542843 |
| Trans EPA ID: | CAL000207677 |
| Trans Name: | JCPE |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | AZR000002428 |
| Trans Name: | COPPER MOUNTAIN |
| TSDF Alt EPA ID: | AZR000002428 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 343 - Unspecified organic liquid mixture |
| RCRA Code: | Not reported |
| Meth Code: | D80 - Disposal, Land Fill |
| Quantity Tons: | 13.6 |
| Waste Quantity: | 4000 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2001 |
| Gen EPA ID: | CAD983609777 |

| | |
|---|---|
| Shipment Date: | 20011212 |
| Creation Date: | 1/29/2002 0:00:00 |
| Receipt Date: | 20011212 |
| Manifest ID: | 21676330 |
| Trans EPA ID: | CA0000970392 |

**CHEMSTAR URETHANES INC (Continued)** **1000596984**

| | |
|---|---|
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD008302903 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 343 - Unspecified organic liquid mixture |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 13.26 |
| Waste Quantity: | 3900 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20011030 |
| Creation Date: | 1/16/2002 0:00:00 |
| Receipt Date: | 20011030 |
| Manifest ID: | 21174236 |
| Trans EPA ID: | CAL000159893 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD008302903 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAD008302903 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 135 - Unspecified aqueous solution |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 21 |
| Waste Quantity: | 5000 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20011015 |
| Creation Date: | 12/17/2001 0:00:00 |
| Receipt Date: | 20011015 |
| Manifest ID: | 21120896 |
| Trans EPA ID: | CAD072953771 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD008302903 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAD008302903 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 135 - Unspecified aqueous solution |
| RCRA Code: | Not reported |

**CHEMSTAR URETHANES INC (Continued)** **1000596984**

| | |
|---|---|
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 21 |
| Waste Quantity: | 5000 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20010822 |
| Creation Date: | 10/3/2001 0:00:00 |
| Receipt Date: | 20010822 |
| Manifest ID: | 21173763 |
| Trans EPA ID: | CAL000159893 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD008302903 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAD008302903 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 135 - Unspecified aqueous solution |
| RCRA Code: | Not reported |
| Meth Code: | H01 - Transfer Station |
| Quantity Tons: | 21 |
| Waste Quantity: | 5000 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20010601 |
| Creation Date: | 7/20/2001 0:00:00 |
| Receipt Date: | 20010601 |
| Manifest ID: | 97255537 |
| Trans EPA ID: | CAD072953771 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD008302903 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAD008302903 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 135 - Unspecified aqueous solution |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 14.7 |
| Waste Quantity: | 3500 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

**CHEMSTAR URETHANES INC (Continued)** **1000596984**

| | |
|---|---|
| Shipment Date: | 20010507 |
| Creation Date: | 6/27/2001 0:00:00 |
| Receipt Date: | 20010507 |
| Manifest ID: | 97255519 |
| Trans EPA ID: | CAD072953771 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD008302903 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 135 - Unspecified aqueous solution |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 21 |
| Waste Quantity: | 5000 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20010409 |
| Creation Date: | 5/31/2001 0:00:00 |
| Receipt Date: | 20010410 |
| Manifest ID: | 21123869 |
| Trans EPA ID: | CA0000970392 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD008302903 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAD008302903 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 343 - Unspecified organic liquid mixture |
| RCRA Code: | Not reported |
| Meth Code: | H01 - Transfer Station |
| Quantity Tons: | 15.64 |
| Waste Quantity: | 4600 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20010322 |
| Creation Date: | 5/16/2001 0:00:00 |
| Receipt Date: | 20010322 |
| Manifest ID: | 21118529 |
| Trans EPA ID: | CA0000970392 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD008302903 |

**CHEMSTAR URETHANES INC (Continued)** **1000596984**

| | |
|---|---|
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAD008302903 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 343 - Unspecified organic liquid mixture |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 17 |
| Waste Quantity: | 5000 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20010208 |
| Creation Date: | 4/9/2001 0:00:00 |
| Receipt Date: | 20010212 |
| Manifest ID: | 20449413 |
| Trans EPA ID: | CAL931024038 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD008302903 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAD008302903 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 223 - Unspecified oil-containing waste |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 20.85 |
| Waste Quantity: | 5000 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2005 |
| Gen EPA ID: | CAD983609777 |

| | |
|---|---|
| Shipment Date: | 20051027 |
| Creation Date: | 12/22/2006 18:30:28 |
| Receipt Date: | 20051028 |
| Manifest ID: | 23542832 |
| Trans EPA ID: | CAL000207677 |
| Trans Name: | JCPE |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | AZC950823111 |
| Trans Name: | LA PAZ |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 352 - Other organic solids |
| RCRA Code: | Not reported |

**CHEMSTAR URETHANES INC (Continued)** **1000596984**

| | |
|---|---|
| Meth Code: | - Not reported |
| Quantity Tons: | Not reported |
| Waste Quantity: | Not reported |
| Quantity Unit: | Not reported |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20051027 |
| Creation Date: | 12/22/2006 18:30:28 |
| Receipt Date: | 20051028 |
| Manifest ID: | 23542832 |
| Trans EPA ID: | CAL000207677 |
| Trans Name: | JCPE |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | AZC950823111 |
| Trans Name: | LA PAZ |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 352 - Other organic solids |
| RCRA Code: | Not reported |
| Meth Code: | - Not reported |
| Quantity Tons: | Not reported |
| Waste Quantity: | Not reported |
| Quantity Unit: | Not reported |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20051013 |
| Creation Date: | 3/12/2006 18:31:42 |
| Receipt Date: | 20051014 |
| Manifest ID: | 23542831 |
| Trans EPA ID: | CAL000207677 |
| Trans Name: | JCPE |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | AZR000002428 |
| Trans Name: | COPPER MOUNTAIN |
| TSDF Alt EPA ID: | AZR000002428 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 343 - Unspecified organic liquid mixture |
| RCRA Code: | Not reported |
| Meth Code: | D80 - Disposal, Land Fill |
| Quantity Tons: | 16.66 |
| Waste Quantity: | 4900 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

**CHEMSTAR URETHANES INC (Continued)** **1000596984**

| | |
|---|---|
| Shipment Date: | 20050920 |
| Creation Date: | 1/17/2006 18:31:26 |
| Receipt Date: | 20050921 |
| Manifest ID: | 24661379 |
| Trans EPA ID: | CA0000970392 |
| Trans Name: | ENVIRONMENTAL RECOVERY SERVICES INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | AZC950823111 |
| Trans Name: | LA PAZ COUNTY LANDFILL |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 352 - Other organic solids |
| RCRA Code: | Not reported |
| Meth Code: | - Not reported |
| Quantity Tons: | 20 |
| Waste Quantity: | 40000 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20050623 |
| Creation Date: | 10/27/2005 10:09:28 |
| Receipt Date: | 20050624 |
| Manifest ID: | 23542828 |
| Trans EPA ID: | CAL000207677 |
| Trans Name: | JCPE |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | AZR000002428 |
| Trans Name: | COPPER MTN |
| TSDF Alt EPA ID: | AZR000002428 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 343 - Unspecified organic liquid mixture |
| RCRA Code: | Not reported |
| Meth Code: | D80 - Disposal, Land Fill |
| Quantity Tons: | 16.66 |
| Waste Quantity: | 4900 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20050428 |
| Creation Date: | 7/21/2005 18:32:26 |
| Receipt Date: | 20050428 |
| Manifest ID: | 24280000 |
| Trans EPA ID: | CAD981425853 |
| Trans Name: | HOYT TRANSPORTATION INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | Not reported |

**CHEMSTAR URETHANES INC (Continued)** **1000596984**

| | |
|---|---|
| Trans Name: | LA PAZ COUNTY LANDFILL |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 352 - Other organic solids |
| RCRA Code: | Not reported |
| Meth Code: | - Not reported |
| Quantity Tons: | Not reported |
| Waste Quantity: | Not reported |
| Quantity Unit: | Not reported |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20050215 |
| Creation Date: | 4/2/2005 18:31:07 |
| Receipt Date: | 20050215 |
| Manifest ID: | 24280007 |
| Trans EPA ID: | CAD981425853 |
| Trans Name: | HOYT TRANSPORTATION INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | AZC950823111 |
| Trans Name: | LA PAZ COUNTY LANDFILL |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 352 - Other organic solids |
| RCRA Code: | Not reported |
| Meth Code: | D80 - Disposal, Land Fill |
| Quantity Tons: | 20 |
| Waste Quantity: | 20 |
| Quantity Unit: | T |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2003 |
| Gen EPA ID: | CAD983609777 |

| | |
|---|---|
| Shipment Date: | 20031229 |
| Creation Date: | 7/30/2004 18:31:14 |
| Receipt Date: | 20031230 |
| Manifest ID: | 23542812 |
| Trans EPA ID: | CAL000207677 |
| Trans Name: | JCPE ENTERPRISES |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | AZR000002428 |
| Trans Name: | COPPER MOUNTAIN LANDFILL |
| TSDF Alt EPA ID: | AZR000002428 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 343 - Unspecified organic liquid mixture |
| RCRA Code: | Not reported |

**CHEMSTAR URETHANES INC (Continued)** **1000596984**

| | |
|---|---|
| Meth Code: | D80 - Disposal, Land Fill |
| Quantity Tons: | 15.3 |
| Waste Quantity: | 4500 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20031229 |
| Creation Date: | 7/30/2004 18:31:14 |
| Receipt Date: | 20031230 |
| Manifest ID: | 22118854 |
| Trans EPA ID: | CAD981425853 |
| Trans Name: | HOYT TRANSPORTATION INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | AZC950823111 |
| Trans Name: | LA PAZ COUNTY LANDFILL |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | - Not reported |
| RCRA Code: | Not reported |
| Meth Code: | - Not reported |
| Quantity Tons: | 11 |
| Waste Quantity: | 11 |
| Quantity Unit: | T |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20031229 |
| Creation Date: | 7/30/2004 18:31:14 |
| Receipt Date: | 20031230 |
| Manifest ID: | 22118854 |
| Trans EPA ID: | CAD981425853 |
| Trans Name: | HOYT TRANSPORTATION INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | AZC950823111 |
| Trans Name: | LA PAZ COUNTY LANDFILL |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 352 - Other organic solids |
| RCRA Code: | Not reported |
| Meth Code: | D80 - Disposal, Land Fill |
| Quantity Tons: | 9 |
| Waste Quantity: | 9 |
| Quantity Unit: | T |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

**CHEMSTAR URETHANES INC (Continued)** **1000596984**

| | |
|---|---|
| Shipment Date: | 20031226 |
| Creation Date: | 7/30/2004 18:31:14 |
| Receipt Date: | 20031226 |
| Manifest ID: | 22118853 |
| Trans EPA ID: | CAD981425853 |
| Trans Name: | HOYT TRANSPORTATION INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | AZC950823111 |
| Trans Name: | LA PAZ COUTY LANDFILL |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 352 - Other organic solids |
| RCRA Code: | Not reported |
| Meth Code: | D80 - Disposal, Land Fill |
| Quantity Tons: | 20 |
| Waste Quantity: | 20 |
| Quantity Unit: | T |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20031222 |
| Creation Date: | 7/30/2004 18:31:14 |
| Receipt Date: | 20031223 |
| Manifest ID: | 23542811 |
| Trans EPA ID: | CAL000207677 |
| Trans Name: | JCPE ENTERPRISES |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | AZR000002428 |
| Trans Name: | COPPER MOUNTAIN LANDFILL |
| TSDF Alt EPA ID: | AZR000002428 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 343 - Unspecified organic liquid mixture |
| RCRA Code: | Not reported |
| Meth Code: | D80 - Disposal, Land Fill |
| Quantity Tons: | 15.3 |
| Waste Quantity: | 4500 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20031203 |
| Creation Date: | 8/24/2004 10:00:04 |
| Receipt Date: | 20031204 |
| Manifest ID: | 99120258 |
| Trans EPA ID: | CAL000207677 |
| Trans Name: | JCPE ENTERPRISES |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | AZR000002428 |

**CHEMSTAR URETHANES INC (Continued)** **1000596984**

| | |
|---|---|
| Trans Name: | COPPER MOUNTAIN LANDFILL |
| TSDF Alt EPA ID: | AZR000002428 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 343 - Unspecified organic liquid mixture |
| RCRA Code: | Not reported |
| Meth Code: | D80 - Disposal, Land Fill |
| Quantity Tons: | 13.6 |
| Waste Quantity: | 4000 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20031119 |
| Creation Date: | 8/9/2004 8:46:56 |
| Receipt Date: | 20031120 |
| Manifest ID: | 21201184 |
| Trans EPA ID: | CAL000207677 |
| Trans Name: | JCPE ENTERPRISES |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | AZR000002428 |
| Trans Name: | COPPER MOUNTAIN LANDFILL |
| TSDF Alt EPA ID: | AZR000002428 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 343 - Unspecified organic liquid mixture |
| RCRA Code: | Not reported |
| Meth Code: | D80 - Disposal, Land Fill |
| Quantity Tons: | 15.64 |
| Waste Quantity: | 4600 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20031016 |
| Creation Date: | 8/3/2004 15:03:33 |
| Receipt Date: | 20031017 |
| Manifest ID: | 21201176 |
| Trans EPA ID: | CAL000207677 |
| Trans Name: | JCPE ENTERPRISES |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | AZR000002428 |
| Trans Name: | COPPER MOUNTAIN LANDFILL |
| TSDF Alt EPA ID: | AZR000002428 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 343 - Unspecified organic liquid mixture |
| RCRA Code: | Not reported |
| Meth Code: | D80 - Disposal, Land Fill |
| Quantity Tons: | 15.3 |
| Waste Quantity: | 4500 |
| Quantity Unit: | G |

**CHEMSTAR URETHANES INC (Continued)** **1000596984**

| | |
|---|---|
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20030805 |
| Creation Date: | 7/29/2004 7:45:24 |
| Receipt Date: | 20030806 |
| Manifest ID: | 21201189 |
| Trans EPA ID: | CAL000207677 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | AZC951206114 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | AZR000002428 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 343 - Unspecified organic liquid mixture |
| RCRA Code: | Not reported |
| Meth Code: | D80 - Disposal, Land Fill |
| Quantity Tons: | 15.64 |
| Waste Quantity: | 4600 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20030717 |
| Creation Date: | 7/23/2004 13:22:40 |
| Receipt Date: | 20030718 |
| Manifest ID: | 21201169 |
| Trans EPA ID: | CAL000207677 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | AZC951206114 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | AZR000002428 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 343 - Unspecified organic liquid mixture |
| RCRA Code: | Not reported |
| Meth Code: | D80 - Disposal, Land Fill |
| Quantity Tons: | 15.64 |
| Waste Quantity: | 4600 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 1996 |
| Gen EPA ID: | CAD983609777 |

**CHEMSTAR URETHANES INC (Continued)** **1000596984**

| | |
|---|---|
| Shipment Date: | 19961206 |
| Creation Date: | 5/21/1997 0:00:00 |
| Receipt Date: | 19961206 |
| Manifest ID: | 96782524 |
| Trans EPA ID: | CAD008364432 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | Not reported |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 272 - Polymeric resin waste |
| RCRA Code: | F002 |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 17.3388 |
| Waste Quantity: | 4158 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 19961008 |
| Creation Date: | 5/20/1997 0:00:00 |
| Receipt Date: | 19961008 |
| Manifest ID: | 95783052 |
| Trans EPA ID: | CAD008364432 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | Not reported |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 272 - Polymeric resin waste |
| RCRA Code: | F002 |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 11.9345 |
| Waste Quantity: | 2862 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 19960912 |
| Creation Date: | 5/30/1997 0:00:00 |
| Receipt Date: | 19960912 |
| Manifest ID: | 95780278 |
| Trans EPA ID: | CAD008364432 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | Not reported |

**CHEMSTAR URETHANES INC (Continued)** **1000596984**

| | |
|---|---|
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 272 - Polymeric resin waste |
| RCRA Code: | F002 |
| Meth Code: | - Not reported |
| Quantity Tons: | 10.0914 |
| Waste Quantity: | 2420 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 19960814 |
| Creation Date: | 5/30/1997 0:00:00 |
| Receipt Date: | 19960814 |
| Manifest ID: | 95780154 |
| Trans EPA ID: | CAD008364432 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | Not reported |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 272 - Polymeric resin waste |
| RCRA Code: | F002 |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 18.0144 |
| Waste Quantity: | 4320 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 19960614 |
| Creation Date: | 7/17/1997 0:00:00 |
| Receipt Date: | Not reported |
| Manifest ID: | 95922887 |
| Trans EPA ID: | OH0000000539 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080022148 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 343 - Unspecified organic liquid mixture |
| RCRA Code: | Not reported |
| Meth Code: | - Not reported |
| Quantity Tons: | 13.6 |
| Waste Quantity: | 4000 |
| Quantity Unit: | G |

**CHEMSTAR URETHANES INC (Continued)** **1000596984**

| | |
|---|---|
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 19960508 |
| Creation Date: | 10/29/1996 0:00:00 |
| Receipt Date: | 19960508 |
| Manifest ID: | 95711177 |
| Trans EPA ID: | OH0000000539 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080022148 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 343 - Unspecified organic liquid mixture |
| RCRA Code: | Not reported |
| Meth Code: | H01 - Transfer Station |
| Quantity Tons: | 13.6 |
| Waste Quantity: | 4000 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 19960209 |
| Creation Date: | 10/10/1996 0:00:00 |
| Receipt Date: | 19960209 |
| Manifest ID: | 95868248 |
| Trans EPA ID: | CAD008364432 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | Not reported |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAD008364432 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 352 - Other organic solids |
| RCRA Code: | Not reported |
| Meth Code: | D80 - Disposal, Land Fill |
| Quantity Tons: | 13.5 |
| Waste Quantity: | 27000 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 19960131 |
| Creation Date: | 10/10/1996 0:00:00 |
| Receipt Date: | 19950206 |

**CHEMSTAR URETHANES INC (Continued)** **1000596984**

| | |
|---|---|
| Manifest ID: | 95868121 |
| Trans EPA ID: | CAD008364432 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD008364432 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAD008364432 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 352 - Other organic solids |
| RCRA Code: | Not reported |
| Meth Code: | D80 - Disposal, Land Fill |
| Quantity Tons: | 4.65 |
| Waste Quantity: | 9300 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 19960104 |
| Creation Date: | 7/29/1996 0:00:00 |
| Receipt Date: | 19960104 |
| Manifest ID: | 95533176 |
| Trans EPA ID: | OH0000000539 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080022148 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 343 - Unspecified organic liquid mixture |
| RCRA Code: | Not reported |
| Meth Code: | H01 - Transfer Station |
| Quantity Tons: | 13.6 |
| Waste Quantity: | 4000 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 1995 |
| Gen EPA ID: | CAD983609777 |

| | |
|---|---|
| Shipment Date: | 19951212 |
| Creation Date: | 7/29/1996 0:00:00 |
| Receipt Date: | 19951212 |
| Manifest ID: | 95532927 |
| Trans EPA ID: | Not reported |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |

**CHEMSTAR URETHANES INC (Continued)** **1000596984**

| | |
|---|---|
| TSDF EPA ID: | CAT080022148 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 343 - Unspecified organic liquid mixture |
| RCRA Code: | Not reported |
| Meth Code: | - Not reported |
| Quantity Tons: | 14.96 |
| Waste Quantity: | 4400 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 19951129 |
| Creation Date: | 7/26/1996 0:00:00 |
| Receipt Date: | 19951129 |
| Manifest ID: | 95533122 |
| Trans EPA ID: | OH0000000539 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080022148 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 343 - Unspecified organic liquid mixture |
| RCRA Code: | Not reported |
| Meth Code: | H01 - Transfer Station |
| Quantity Tons: | 13.09 |
| Waste Quantity: | 3850 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 19951129 |
| Creation Date: | 7/26/1996 0:00:00 |
| Receipt Date: | 19951129 |
| Manifest ID: | 95533122 |
| Trans EPA ID: | OH0000000539 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080022148 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | - Not reported |
| RCRA Code: | Not reported |
| Meth Code: | H01 - Transfer Station |
| Quantity Tons: | 0.6255 |
| Waste Quantity: | 150 |

**CHEMSTAR URETHANES INC (Continued)** **1000596984**

| | |
|---|---|
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 19951106 |
| Creation Date: | 7/26/1996 0:00:00 |
| Receipt Date: | 19951106 |
| Manifest ID: | 95532942 |
| Trans EPA ID: | OH0000000539 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080022148 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 343 - Unspecified organic liquid mixture |
| RCRA Code: | Not reported |
| Meth Code: | H01 - Transfer Station |
| Quantity Tons: | 13.43 |
| Waste Quantity: | 3950 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 19951106 |
| Creation Date: | 7/26/1996 0:00:00 |
| Receipt Date: | 19951106 |
| Manifest ID: | 95532942 |
| Trans EPA ID: | OH0000000539 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080022148 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 343 - Unspecified organic liquid mixture |
| RCRA Code: | Not reported |
| Meth Code: | H01 - Transfer Station |
| Quantity Tons: | 0.17 |
| Waste Quantity: | 50 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 19951006 |
| Creation Date: | 7/26/1996 0:00:00 |

**CHEMSTAR URETHANES INC (Continued)** **1000596984**

| | |
|---|---|
| Receipt Date: | 19951006 |
| Manifest ID: | 95532994 |
| Trans EPA ID: | CAD980584510 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080022148 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 331 - Off-specification, aged, or surplus organics |
| RCRA Code: | Not reported |
| Meth Code: | H01 - Transfer Station |
| Quantity Tons: | 13.035 |
| Waste Quantity: | 3950 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 19951006 |
| Creation Date: | 7/26/1996 0:00:00 |
| Receipt Date: | 19951006 |
| Manifest ID: | 95532994 |
| Trans EPA ID: | CAD980584510 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080022148 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 331 - Off-specification, aged, or surplus organics |
| RCRA Code: | Not reported |
| Meth Code: | H01 - Transfer Station |
| Quantity Tons: | 0.165 |
| Waste Quantity: | 50 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 19950926 |
| Creation Date: | 7/26/1996 0:00:00 |
| Receipt Date: | 19950927 |
| Manifest ID: | 95532960 |
| Trans EPA ID: | OH0000000539 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080022148 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |

**CHEMSTAR URETHANES INC (Continued)** **1000596984**

| | |
|---|---|
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 331 - Off-specification, aged, or surplus organics |
| RCRA Code: | Not reported |
| Meth Code: | H01 - Transfer Station |
| Quantity Tons: | 10.89 |
| Waste Quantity: | 3300 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 19950823 |
| Creation Date: | 4/2/1996 0:00:00 |
| Receipt Date: | 19950824 |
| Manifest ID: | 95532856 |
| Trans EPA ID: | OH0000000539 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080022148 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 331 - Off-specification, aged, or surplus organics |
| RCRA Code: | Not reported |
| Meth Code: | - Not reported |
| Quantity Tons: | 13.2 |
| Waste Quantity: | 4000 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 19950823 |
| Creation Date: | 4/2/1996 0:00:00 |
| Receipt Date: | 19950823 |
| Manifest ID: | 95532857 |
| Trans EPA ID: | OH0000000539 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080022148 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 331 - Off-specification, aged, or surplus organics |
| RCRA Code: | Not reported |
| Meth Code: | - Not reported |
| Quantity Tons: | 13.2 |
| Waste Quantity: | 4000 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |

**CHEMSTAR URETHANES INC (Continued)** **1000596984**

Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:
Year: 2002
Gen EPA ID: CAD983609777

Shipment Date: 20021212
Creation Date: 4/1/2003 18:31:07
Receipt Date: 20021213
Manifest ID: 22154949
Trans EPA ID: CAR000118992
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: AZR000002428
Trans Name: Not reported
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 343 - Unspecified organic liquid mixture
RCRA Code: Not reported
Meth Code: D80 - Disposal, Land Fill
Quantity Tons: 15.844
Waste Quantity: 4660
Quantity Unit: G
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20021111
Creation Date: 2/25/2003 18:31:38
Receipt Date: 20021112
Manifest ID: 22089215
Trans EPA ID: CAR000118992
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: AZR000002428
Trans Name: Not reported
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 343 - Unspecified organic liquid mixture
RCRA Code: Not reported
Meth Code: D80 - Disposal, Land Fill
Quantity Tons: 15.844
Waste Quantity: 4660
Quantity Unit: G
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20020905

**CHEMSTAR URETHANES INC (Continued)** **1000596984**

| | |
|---|---|
| Creation Date: | 1/28/2003 18:31:46 |
| Receipt Date: | 20070906 |
| Manifest ID: | 21851525 |
| Trans EPA ID: | CAR000118992 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | AZC951206114 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 343 - Unspecified organic liquid mixture |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 15.844 |
| Waste Quantity: | 4660 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20020730 |
| Creation Date: | 3/12/2003 18:31:29 |
| Receipt Date: | 20020731 |
| Manifest ID: | 21851338 |
| Trans EPA ID: | CAR000118992 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | AZC951206114 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 343 - Unspecified organic liquid mixture |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 17 |
| Waste Quantity: | 5000 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20020626 |
| Creation Date: | 2/7/2003 18:31:14 |
| Receipt Date: | 20020627 |
| Manifest ID: | 21173964 |
| Trans EPA ID: | CAL000159893 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | AZC951206114 |
| Trans Name: | Not reported |

**CHEMSTAR URETHANES INC (Continued)** **1000596984**

| | |
|---|---|
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 343 - Unspecified organic liquid mixture |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 17 |
| Waste Quantity: | 5000 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20020510 |
| Creation Date: | 7/16/2002 18:30:48 |
| Receipt Date: | 20020510 |
| Manifest ID: | 21869759 |
| Trans EPA ID: | CA0000970392 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD008302903 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 343 - Unspecified organic liquid mixture |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 18.36 |
| Waste Quantity: | 5400 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20020503 |
| Creation Date: | 6/21/2005 15:34:05 |
| Receipt Date: | 20020504 |
| Manifest ID: | 21424946 |
| Trans EPA ID: | CAL000159893 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | AZR000002428 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 343 - Unspecified organic liquid mixture |
| RCRA Code: | Not reported |
| Meth Code: | D80 - Disposal, Land Fill |
| Quantity Tons: | 17 |
| Waste Quantity: | 5000 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |

**CHEMSTAR URETHANES INC (Continued)** **1000596984**

| | |
|---|---|
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20020417 |
| Creation Date: | 7/29/2002 18:38:23 |
| Receipt Date: | 20020417 |
| Manifest ID: | 21622235 |
| Trans EPA ID: | CA0000970392 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD008302903 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 343 - Unspecified organic liquid mixture |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 17 |
| Waste Quantity: | 5000 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20020307 |
| Creation Date: | 7/8/2002 18:31:16 |
| Receipt Date: | 20020307 |
| Manifest ID: | 21714142 |
| Trans EPA ID: | CA0000970392 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD008302903 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 343 - Unspecified organic liquid mixture |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 17 |
| Waste Quantity: | 5000 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20020128 |
| Creation Date: | 2/26/2002 0:00:00 |
| Receipt Date: | 20020128 |
| Manifest ID: | 21425570 |

**CHEMSTAR URETHANES INC (Continued)** **1000596984**

| | |
|---|---|
| Trans EPA ID: | CAL000159893 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD008302903 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 343 - Unspecified organic liquid mixture |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 17 |
| Waste Quantity: | 5000 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

WDS:

| | |
|---|---|
| Name: | CHEMSTAR URETHANES INC |
| Address: | 1148 CALIFORNIA AVE |
| City: | CORONA |
| Facility ID: | Santa Ana River 33I011145 |
| Facility Type: | Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping. |
| Facility Status: | Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements. |
| NPDES Number: | CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board |
| Subregion: | 8 |
| Facility Telephone: | Not reported |
| Facility Contact: | Not reported |
| Agency Name: | KULJIAN RICH |
| Agency Address: | Not reported |
| Agency City,St,Zip: | 0 |
| Agency Contact: | Not reported |
| Agency Telephone: | Not reported |
| Agency Type: | Private |
| SIC Code: | 0 |
| SIC Code 2: | Not reported |
| Primary Waste Type: | Not reported |
| Primary Waste: | Not reported |
| Waste Type2: | Not reported |
| Waste2: | Not reported |
| Primary Waste Type: | Not reported |
| Secondary Waste: | Not reported |
| Secondary Waste Type: | Not reported |
| Design Flow: | 0 |
| Baseline Flow: | 0 |
| Reclamation: | Not reported |
| POTW: | Not reported |

**CHEMSTAR URETHANES INC (Continued)** **1000596984**

Treat To Water: Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.

Complexity: Category C - Facilities having no waste treatment systems, such as cooling water dischargers or thosewho must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

CIWQS:

| | |
|---|---|
| Name: | CHEMSTAR URETHANES INC |
| Address: | 1148 CALIFORNIA AVE |
| City,State,Zip: | CORONA, CA 92881 |
| Agency: | Chemstar Urethanes Inc |
| Agency Address: | 1148 California Ave, Corona, CA 92881 |
| Place/Project Type: | Industrial - Custom Compounding of Purchased Plastics Resins |
| SIC/NAICS: | 3087 |
| Region: | 8 |
| Program: | INDSTW |
| Regulatory Measure Status: | Terminated |
| Regulatory Measure Type: | Storm water industrial |
| Order Number: | 2014-0057-DWQ |
| WDID: | 8 33I011145 |
| NPDES Number: | CAS000001 |
| Adoption Date: | Not reported |
| Effective Date: | 09/01/1994 |
| Termination Date: | 08/11/2006 |
| Expiration/Review Date: | Not reported |
| Design Flow: | Not reported |
| Major/Minor: | Not reported |
| Complexity: | Not reported |
| TTWQ: | Not reported |
| Enforcement Actions within 5 years: | 0 |
| Violations within 5 years: | 0 |
| Latitude: | 33.86171 |
| Longitude: | -117.54347 |

HWTS:

| | |
|---|---|
| Name: | CHEMSTAR URETHANES INC |
| Address: | 1148 CALIFORNIA AVE |
| Address 2: | Not reported |
| City,State,Zip: | CORONA, CA 92881 |
| EPA ID: | CAD983609777 |
| Inactive Date: | 07/19/2006 |
| Create Date: | 10/24/1991 |
| Last Act Date: | Not reported |
| Mailing Name: | Not reported |
| Mailing Address: | 1148 CALIFORNIA AVE |
| Mailing Address 2: | Not reported |
| Mailing City,State,Zip: | CORONA, CA 928813324 |
| Owner Name: | RICHARD KULJIAN |
| Owner Address: | 1148 CALIFORNIA AVE |

**CHEMSTAR URETHANES INC (Continued)** **1000596984**

| | |
|---|---|
| Owner Address 2: | Not reported |
| Owner City,State,Zip: | CORONA, CA 928810000 |
| Contact Name: | GORDON KULJIAN/PRES |
| Contact Address: | 1148 CALIFORNIA AVE/DEACT PER |
| Contact Address 2: | Not reported |
| City,State,Zip: | CORONA, CA 928810000 |
| Facility Status: | Inactive |
| Facility Type: | PERMANENT |
| Category: | FEDERAL |
| Latitude: | 33.861707 |
| Longitude: | -117.543549 |

NAICS:

| | |
|---|---|
| EPA ID: | CAD983609777 |
| Create Date: | 2002-03-14 16:36:27.000 |
| NAICS Code: | 325991 |
| NAICS Description: | Custom Compounding of Purchased Resins |
| Issued EPA ID Date: | 1991-10-24 00:00:00 |
| Inactive Date: | 2006-07-19 00:00:00 |
| Facility Name: | CHEMSTAR URETHANES INC |
| Facility Address: | 1148 CALIFORNIA AVE |
| Facility Address 2: | Not reported |
| Facility City: | CORONA |
| Facility County: | Not reported |
| Facility State: | CA |
| Facility Zip: | 928813324 |

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**I38** **TECHNICOTE_INC** **RCRA NonGen / NLR** **1024790771**
**NE** **1141 CALIFORNIA AVE** **CAL000092279**
**1/8-1/4** **CORONA, CA 91719**
**0.202 mi.**
**1068 ft.** **Site 4 of 7 in cluster I**

**Relative:** **Lower**
**Actual:** **734 ft.**

RCRA NonGen / NLR:

| | | |
|---|---|---|
| Date Form Received by Agency: | | 19930802 |
| Handler Name: | TECHNICOTE_INC | |
| Handler Address: | | 1141 CALIFORNIA AVE |
| Handler City,State,Zip: | | CORONA, CA 91719-0000 |
| EPA ID: | | CAL000092279 |
| Contact Name: | | IVAN JURADO |
| Contact Address: | | 1141 CALIFORNIA AVE |
| Contact City,State,Zip: | | CORONA, CA 92881 |
| Contact Telephone: | | 951-734-7440 |
| Contact Fax: | | Not reported |
| Contact Email: | | IJURADO@TECHNICOTE.COM |
| Contact Title: | | Not reported |
| EPA Region: | | 09 |
| Land Type: | | Not reported |
| Federal Waste Generator Description: | | Not a generator, verified |
| Non-Notifier: | | Not reported |
| Biennial Report Cycle: | | Not reported |
| Accessibility: | | Not reported |
| Active Site Indicator: | | Handler Activities |
| State District Owner: | | Not reported |
| State District: | | Not reported |
| Mailing Address: | | 1141 CALIFORNIA AVE |
| Mailing City,State,Zip: | | CORONA, CA 92881-0000 |

**TECHNICOTE_INC (Continued)** **1024790771**

| | |
|---|---|
| Owner Name: | TECHNICOTE INC |
| Owner Type: | Other |
| Operator Name: | IVAN JURADO |
| Operator Type: | Other |
| Short-Term Generator Activity: | No |
| Importer Activity: | No |
| Mixed Waste Generator: | No |
| Transporter Activity: | No |
| Transfer Facility Activity: | No |
| Recycler Activity with Storage: | No |
| Small Quantity On-Site Burner Exemption: | No |
| Smelting Melting and Refining Furnace Exemption: | No |
| Underground Injection Control: | No |
| Off-Site Waste Receipt: | No |
| Universal Waste Indicator: | Yes |
| Universal Waste Destination Facility: | Yes |
| Federal Universal Waste: | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site State-Reg Handler: | --- |
| Federal Facility Indicator: | Not reported |
| Hazardous Secondary Material Indicator: | N |
| Sub-Part K Indicator: | Not reported |
| Commercial TSD Indicator: | No |
| Treatment Storage and Disposal Type: | Not reported |
| 2018 GPRA Permit Baseline: | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | Not on the Baseline |
| Permit Renewals Workload Universe: | Not reported |
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 20180905 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | No |

**TECHNICOTE_INC (Continued)** **1024790771**

Manifest Broker: No
Sub-Part P Indicator: No

Handler - Owner Operator:
Owner/Operator Indicator: Owner
Owner/Operator Name: TECHNICOTE INC
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 222 MOUND AVE
Owner/Operator City,State,Zip: MIAMISBURG, OH 45432-0000
Owner/Operator Telephone: 937-859-4448
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: IVAN JURADO
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 1141 CALIFORNIA AVE
Owner/Operator City,State,Zip: CORONA, CA 92881
Owner/Operator Telephone: 951-734-7440
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 19930802
Handler Name: TECHNICOTE_INC
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 32552
NAICS Description: ADHESIVE MANUFACTURING

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

**I39** **TECHNICOTE** **RCRA-SQG** **1004675693**
**NE** **1141 CALIFORNIA** **FINDS** **CAR000076034**
**1/8-1/4** **CORONA, CA 92879**
**0.202 mi.**
**1068 ft.** **Site 5 of 7 in cluster I**

**Relative:** **Lower**
**Actual:** **734 ft.**

RCRA-SQG:

| | | |
|---|---|---|
| Date Form Received by Agency: | | 20000608 |
| Handler Name: | TECHNICOTE | |
| Handler Address: | | 1141 CALIFORNIA |
| Handler City,State,Zip: | | CORONA, CA 92879 |
| EPA ID: | | CAR000076034 |
| Contact Name: | | JEFF FAUS |
| Contact Address: | | 1141 CALIFORNIA |
| Contact City,State,Zip: | | CORONA, CA 91719 |
| Contact Telephone: | | 909-734-7440 |
| Contact Fax: | | Not reported |
| Contact Email: | | Not reported |
| Contact Title: | | Not reported |
| EPA Region: | | 09 |
| Land Type: | | Private |
| Federal Waste Generator Description: | | Small Quantity Generator |
| Non-Notifier: | | Not reported |
| Biennial Report Cycle: | | Not reported |
| Accessibility: | | Not reported |
| Active Site Indicator: | | Handler Activities |
| State District Owner: | | Not reported |
| State District: | | Not reported |
| Mailing Address: | | 1141 CALIFORNIA |
| Mailing City,State,Zip: | | CORONA, CA 91719 |
| Owner Name: | | TECHNICOTE |
| Owner Type: | | Private |
| Operator Name: | | Not reported |
| Operator Type: | | Not reported |
| Short-Term Generator Activity: | | No |
| Importer Activity: | | No |
| Mixed Waste Generator: | | No |
| Transporter Activity: | | No |
| Transfer Facility Activity: | | No |
| Recycler Activity with Storage: | | No |
| Small Quantity On-Site Burner Exemption: | | No |
| Smelting Melting and Refining Furnace Exemption: | | No |
| Underground Injection Control: | | No |
| Off-Site Waste Receipt: | | No |
| Universal Waste Indicator: | | No |
| Universal Waste Destination Facility: | | No |
| Federal Universal Waste: | | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | | Not reported |
| Active Site State-Reg Handler: | | --- |
| Federal Facility Indicator: | | Not reported |
| Hazardous Secondary Material Indicator: | | NN |
| Sub-Part K Indicator: | | Not reported |
| Commercial TSD Indicator: | | No |
| Treatment Storage and Disposal Type: | | Not reported |
| 2018 GPRA Permit Baseline: | | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | | Not on the Baseline |
| Permit Renewals Workload Universe: | | Not reported |

**TECHNICOTE (Continued)** **1004675693**

| | |
|---|---|
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 20021007 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | Not reported |
| Manifest Broker: | Not reported |
| Sub-Part P Indicator: | No |

Hazardous Waste Summary:

| | |
|---|---|
| Waste Code: | D001 |
| Waste Description: | IGNITABLE WASTE |

Handler - Owner Operator:

| | |
|---|---|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | TECHNICOTE |
| Legal Status: | Private |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 1141 CALIFORNIA |
| Owner/Operator City,State,Zip: | CORONA, CA 91719 |
| Owner/Operator Telephone: | 909-734-7440 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

Historic Generators:

| | |
|---|---|
| Receive Date: | 20000608 |
| Handler Name: TECHNICOTE | |
| Federal Waste Generator Description: | Small Quantity Generator |
| State District Owner: | Not reported |
| Large Quantity Handler of Universal Waste: | No |
| Recognized Trader Importer: | No |

**TECHNICOTE (Continued)** **1004675693**

Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

FINDS:
Registry ID: 110008288833

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.
STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

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**K40** **CENTER MANUFACTURING INC** **RCRA-SQG** **1004676656**
**East** **1160 OLYMPIC DR** **CERS HAZ WASTE** **CAR000087924**
**1/8-1/4** **CORONA, CA 92881** **CHMIRS**
**0.209 mi.** **EMI**
**1102 ft.** **Site 1 of 2 in cluster K** **HAZNET**
**NPDES**
**Relative:** **WDS**
**Lower** **CIWQS**
**CERS**
**Actual:** **HWTS**
**753 ft.**

RCRA-SQG:
Date Form Received by Agency: 20001207
Handler Name: CENTER MANUFACTURING INC
Handler Address: 1160 OLYMPIC DR
Handler City,State,Zip: CORONA, CA 92881-3390
EPA ID: CAR000087924
Contact Name: DAVID HODGES
Contact Address: 1160 OLYMPIC DR
Contact City,State,Zip: CORONA, CA 92881-3390
Contact Telephone: 909-582-9642
Contact Fax: Not reported
Contact Email: Not reported

**CENTER MANUFACTURING INC (Continued)** **1004676656**

| | |
|---|---|
| Contact Title: | Not reported |
| EPA Region: | 09 |
| Land Type: | Private |
| Federal Waste Generator Description: | Small Quantity Generator |
| Non-Notifier: | Not reported |
| Biennial Report Cycle: | Not reported |
| Accessibility: | Not reported |
| Active Site Indicator: | Handler Activities |
| State District Owner: | Not reported |
| State District: | Not reported |
| Mailing Address: | 1160 OLYMPIC DR |
| Mailing City,State,Zip: | CORONA, CA 92881-3390 |
| Owner Name: | CENTER MANUFACTURING INC |
| Owner Type: | Private |
| Operator Name: | Not reported |
| Operator Type: | Not reported |
| Short-Term Generator Activity: | No |
| Importer Activity: | No |
| Mixed Waste Generator: | No |
| Transporter Activity: | No |
| Transfer Facility Activity: | No |
| Recycler Activity with Storage: | No |
| Small Quantity On-Site Burner Exemption: | No |
| Smelting Melting and Refining Furnace Exemption: | No |
| Underground Injection Control: | No |
| Off-Site Waste Receipt: | No |
| Universal Waste Indicator: | No |
| Universal Waste Destination Facility: | No |
| Federal Universal Waste: | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site State-Reg Handler: | --- |
| Federal Facility Indicator: | Not reported |
| Hazardous Secondary Material Indicator: | NN |
| Sub-Part K Indicator: | Not reported |
| Commercial TSD Indicator: | No |
| Treatment Storage and Disposal Type: | Not reported |
| 2018 GPRA Permit Baseline: | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | Not on the Baseline |
| Permit Renewals Workload Universe: | Not reported |
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |

**CENTER MANUFACTURING INC (Continued)** **1004676656**

| | |
|---|---|
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 20021007 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | Not reported |
| Manifest Broker: | Not reported |
| Sub-Part P Indicator: | No |

Hazardous Waste Summary:

| | |
|---|---|
| Waste Code: | D000 |
| Waste Description: | Not Defined |
| Waste Code: | D001 |
| Waste Description: | IGNITABLE WASTE |
| Waste Code: | D002 |
| Waste Description: | CORROSIVE WASTE |
| Waste Code: | D008 |
| Waste Description: | LEAD |
| Waste Code: | D009 |
| Waste Description: | MERCURY |

Handler - Owner Operator:

| | |
|---|---|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | CENTER MANUFACTURING INC |
| Legal Status: | Private |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 1160 OLYMPIC DR |
| Owner/Operator City,State,Zip: | CORONA, CA 92881-3390 |
| Owner/Operator Telephone: | 909-582-9642 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

Historic Generators:

| | |
|---|---|
| Receive Date: | 20001207 |
| Handler Name: | CENTER MANUFACTURING INC |
| Federal Waste Generator Description: | Small Quantity Generator |
| State District Owner: | Not reported |
| Large Quantity Handler of Universal Waste: | No |
| Recognized Trader Importer: | No |
| Recognized Trader Exporter: | No |
| Spent Lead Acid Battery Importer: | No |
| Spent Lead Acid Battery Exporter: | No |
| Current Record: | Yes |

**CENTER MANUFACTURING INC (Continued)** **1004676656**

Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

CERS HAZ WASTE:
Name: WESTERN EQUIPMENT MANUFACTURING, INC.
Address: 1160 OLYMPIC DR
City,State,Zip: CORONA, CA 92881
Site ID: 407585
CERS ID: 10446211
CERS Description: Hazardous Waste Generator

CHMIRS:
Name: Not reported
Address: 1160 OLYMPIC
City,State,Zip: CORONA, CA
OES Incident Number: 2-1611
OES notification: 03/24/2002
OES Date: Not reported
OES Time: Not reported
**Date Completed:** **Not reported**
Property Use: Not reported
Agency Id Number: Not reported
Agency Incident Number: Not reported
Time Notified: Not reported
Time Completed: Not reported
Surrounding Area: Not reported
Estimated Temperature: Not reported
Property Management: Not reported
More Than Two Substances Involved?: Not reported
Resp Agncy Personel # Of Decontaminated: Not reported
Responding Agency Personel # Of Injuries: Not reported
Responding Agency Personel # Of Fatalities: Not reported
Others Number Of Decontaminated: Not reported
Others Number Of Injuries: Not reported
Others Number Of Fatalities: Not reported
Vehicle Make/year: Not reported
Vehicle License Number: Not reported
Vehicle State: Not reported
Vehicle Id Number: Not reported
CA DOT PUC/ICC Number: Not reported
Company Name: Not reported
Reporting Officer Name/ID: Not reported
Report Date: Not reported
Facility Telephone: Not reported
Waterway Involved: Yes

**CENTER MANUFACTURING INC (Continued)** **1004676656**

| | |
|---|---|
| Waterway: | storm drain |
| Spill Site: | Not reported |
| Cleanup By: | Co. Health |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |
| Agency: | Corona Fire Dept. |
| Incident Date: | 3/24/200212:00:00 AM |
| Admin Agency: | Corona Fire Department |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Merchant/Business |
| E Date: | Not reported |
| Substance: | Darea Clean 200 (soap) |
| Gallons: | 50 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Per caller, the substance was released as a result of a fire. |

EMI:

| | |
|---|---|
| Name: | WESTERN EQUIPMENT MANUFACTURING |
| Address: | 1160 OLYMPIC DR |
| City,State,Zip: | CORONA, CA 92881 |
| Year: | 2012 |
| County Code: | 33 |
| Air Basin: | SC |
| Facility ID: | 155594 |
| Air District Name: | SC |
| SIC Code: | 3531 |
| Air District Name: | SOUTH COAST AQMD |
| Community Health Air Pollution Info System: | Not reported |
| Consolidated Emission Reporting Rule: | Not reported |
| Total Organic Hydrocarbon Gases Tons/Yr: | 0.70501567719 |
| Reactive Organic Gases Tons/Yr: | 0.41128 |
| Carbon Monoxide Emissions Tons/Yr: | 0 |
| NOX - Oxides of Nitrogen Tons/Yr: | 0 |
| SOX - Oxides of Sulphur Tons/Yr: | 0 |
| Particulate Matter Tons/Yr: | 0 |

**CENTER MANUFACTURING INC (Continued)** **1004676656**

Part. Matter 10 Micrometers and Smllr Tons/Yr:0

| | |
|---|---|
| Name: | WESTERN EQUIPMENT MANUFACTURING |
| Address: | 1160 OLYMPIC DR |
| City,State,Zip: | CORONA, CA 92881 |
| Year: | 2013 |
| County Code: | 33 |
| Air Basin: | SC |
| Facility ID: | 155594 |
| Air District Name: | SC |
| SIC Code: | 3531 |
| Air District Name: | SOUTH COAST AQMD |
| Community Health Air Pollution Info System: | Not reported |
| Consolidated Emission Reporting Rule: | Not reported |
| Total Organic Hydrocarbon Gases Tons/Yr: | 1.0631802105 |
| Reactive Organic Gases Tons/Yr: | 0.75713 |
| Carbon Monoxide Emissions Tons/Yr: | 0 |
| NOX - Oxides of Nitrogen Tons/Yr: | 0 |
| SOX - Oxides of Sulphur Tons/Yr: | 0 |
| Particulate Matter Tons/Yr: | 0 |
| Part. Matter 10 Micrometers and Smllr Tons/Yr: | 0 |

HAZNET:

| | |
|---|---|
| Name: | CENTER MANUFACTURING INC |
| Address: | 1160 OLYMPIC DR |
| Address 2: | Not reported |
| City,State,Zip: | CORONA, CA 928810000 |
| Contact: | FREDDIE BURGESS |
| Telephone: | 9095829642 |
| Mailing Name: | Not reported |
| Mailing Address: | 1160 OLYMPIC DR |
| | |
| Year: | 2005 |
| Gepaid: | CAR000087924 |
| TSD EPA ID: | CAT080033681 |
| CA Waste Code: | 221 - Waste oil and mixed oil |
| Disposal Method: | R01 - Recycler |
| Tons: | 2.09 |
| | |
| Year: | 2005 |
| Gepaid: | CAR000087924 |
| TSD EPA ID: | CAT080013352 |
| CA Waste Code: | 221 - Waste oil and mixed oil |
| Disposal Method: | R01 - Recycler |
| Tons: | 1.178 |
| | |
| Year: | 2005 |
| Gepaid: | CAR000087924 |
| TSD EPA ID: | CAT080033681 |
| CA Waste Code: | 122 - Alkaline solution without metals pH >= 12.5 |
| Disposal Method: | R01 - Recycler |
| Tons: | 0.22935 |
| | |
| Year: | 2005 |
| Gepaid: | CAR000087924 |
| TSD EPA ID: | CAT080033681 |
| CA Waste Code: | 223 - Unspecified oil-containing waste |

**CENTER MANUFACTURING INC (Continued)** **1004676656**

Disposal Method: D80 - Disposal, Land Fill
Tons: 0.2

Year: 2004
Gepaid: CAR000087924
TSD EPA ID: CAT080013352
CA Waste Code: 221 - Waste oil and mixed oil
Disposal Method: -
Tons: 2.432

Year: 2003
Gepaid: CAR000087924
TSD EPA ID: CAT080013352
CA Waste Code: 221 - Waste oil and mixed oil
Disposal Method: R01 - Recycler
Tons: 17.043

Year: 2002
Gepaid: CAR000087924
TSD EPA ID: CAT080013352
CA Waste Code: 221 - Waste oil and mixed oil
Disposal Method: -
Tons: 5.7

Year: 2002
Gepaid: CAR000087924
TSD EPA ID: CAT080013352
CA Waste Code: 223 - Unspecified oil-containing waste
Disposal Method: R01 - Recycler
Tons: 17.7225

Year: 2002
Gepaid: CAR000087924
TSD EPA ID: CAT080013352
CA Waste Code: 221 - Waste oil and mixed oil
Disposal Method: R01 - Recycler
Tons: 31.065

Year: 2002
Gepaid: CAR000087924
TSD EPA ID: CAT080013352
CA Waste Code: 135 - Unspecified aqueous solution
Disposal Method: R01 - Recycler
Tons: 6.3

Click this hyperlink while viewing on your computer to access
3 additional CA HAZNET: record(s) in the EDR Site Report.

Additional Info:
Year: 2005
Gen EPA ID: CAR000087924

Shipment Date: 20050504
Creation Date: 7/27/2005 10:48:47
Receipt Date: 20050505
Manifest ID: 24152388

**CENTER MANUFACTURING INC (Continued)** **1004676656**

| | |
|---|---|
| Trans EPA ID: | CAD982440364 |
| Trans Name: | PFR ENVIRONMENTAL SERVICES INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080033681 |
| Trans Name: | D/K ENVIRONMENTAL |
| TSDF Alt EPA ID: | CAT080033681 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 221 - Waste oil and mixed oil |
| RCRA Code: | NONE |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 2.09 |
| Waste Quantity: | 550 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20050504 |
| Creation Date: | 8/17/2005 18:31:07 |
| Receipt Date: | 20050505 |
| Manifest ID: | 24187771 |
| Trans EPA ID: | CAD980814446 |
| Trans Name: | MARK ALARCON'S WASTE OIL SERVICE |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080013352 |
| Trans Name: | DEMENNO KERDOON |
| TSDF Alt EPA ID: | CAT080013352 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 221 - Waste oil and mixed oil |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 1.178 |
| Waste Quantity: | 310 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20050504 |
| Creation Date: | 7/27/2005 10:48:47 |
| Receipt Date: | 20050505 |
| Manifest ID: | 24152388 |
| Trans EPA ID: | CAD982440364 |
| Trans Name: | PFR ENVIRONMENTAL SERVICES INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080033681 |
| Trans Name: | D/K ENVIRONMENTAL |
| TSDF Alt EPA ID: | CAT080033681 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 223 - Unspecified oil-containing waste |

**CENTER MANUFACTURING INC (Continued)** **1004676656**

| | |
|---|---|
| RCRA Code: | NONE |
| Meth Code: | D80 - Disposal, Land Fill |
| Quantity Tons: | 0.2 |
| Waste Quantity: | 400 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20050504 |
| Creation Date: | 7/27/2005 10:48:47 |
| Receipt Date: | 20050505 |
| Manifest ID: | 24152388 |
| Trans EPA ID: | CAD982440364 |
| Trans Name: | PFR ENVIRONMENTAL SERVICES INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080033681 |
| Trans Name: | D/K ENVIRONMENTAL |
| TSDF Alt EPA ID: | CAT080033681 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 122 - Alkaline solution without metals (pH > 12.5 |
| RCRA Code: | D002 |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.22935 |
| Waste Quantity: | 55 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2004 |
| Gen EPA ID: | CAR000087924 |
| | |
| Shipment Date: | 20040908 |
| Creation Date: | 12/21/2004 18:30:50 |
| Receipt Date: | 20040909 |
| Manifest ID: | 23597056 |
| Trans EPA ID: | CAD980814446 |
| Trans Name: | MARK ALARCON'S WASTE OIL SERVICE |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080013352 |
| Trans Name: | DEMENNO KERDOON |
| TSDF Alt EPA ID: | CAT080013352 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 221 - Waste oil and mixed oil |
| RCRA Code: | Not reported |
| Meth Code: | - Not reported |
| Quantity Tons: | 2.432 |
| Waste Quantity: | 640 |
| Quantity Unit: | G |

**CENTER MANUFACTURING INC (Continued)** **1004676656**

| | |
|---|---|
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2003 |
| Gen EPA ID: | CAR000087924 |
| Shipment Date: | 20030730 |
| Creation Date: | 7/29/2004 7:44:50 |
| Receipt Date: | 20030730 |
| Manifest ID: | 22738460 |
| Trans EPA ID: | CAR000053405 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080013352 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAT080013352 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 221 - Waste oil and mixed oil |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 6.593 |
| Waste Quantity: | 1735 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| Shipment Date: | 20030414 |
| Creation Date: | 8/29/2003 18:31:02 |
| Receipt Date: | 20030416 |
| Manifest ID: | 22499864 |
| Trans EPA ID: | CAR000053405 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080013352 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAT080013352 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 221 - Waste oil and mixed oil |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 4.75 |
| Waste Quantity: | 1250 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

**CENTER MANUFACTURING INC (Continued)** **1004676656**

| | |
|---|---|
| Shipment Date: | 20030124 |
| Creation Date: | 5/18/2003 14:32:26 |
| Receipt Date: | 20030124 |
| Manifest ID: | 22170161 |
| Trans EPA ID: | CAR000053405 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080013352 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAT080013352 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 221 - Waste oil and mixed oil |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 5.7 |
| Waste Quantity: | 1500 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2002 |
| Gen EPA ID: | CAR000087924 |

| | |
|---|---|
| Shipment Date: | 20021111 |
| Creation Date: | 3/16/2007 18:30:20 |
| Receipt Date: | 20021111 |
| Manifest ID: | 22244777 |
| Trans EPA ID: | CAR000053405 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080013352 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAT080013352 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 223 - Unspecified oil-containing waste |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 4.17 |
| Waste Quantity: | 1000 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20020927 |
| Creation Date: | 2/10/2003 18:31:16 |
| Receipt Date: | 20021007 |
| Manifest ID: | 22244437 |
| Trans EPA ID: | CAR000053405 |

**CENTER MANUFACTURING INC (Continued)** **1004676656**

| | |
|---|---|
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080013352 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 221 - Waste oil and mixed oil |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 1.9 |
| Waste Quantity: | 500 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20020824 |
| Creation Date: | 10/14/2002 18:31:59 |
| Receipt Date: | Not reported |
| Manifest ID: | 21818319 |
| Trans EPA ID: | CAR000053405 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080013352 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 221 - Waste oil and mixed oil |
| RCRA Code: | Not reported |
| Meth Code: | - Not reported |
| Quantity Tons: | 5.7 |
| Waste Quantity: | 1500 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20020803 |
| Creation Date: | 1/31/2003 15:02:08 |
| Receipt Date: | 20020805 |
| Manifest ID: | 21818159 |
| Trans EPA ID: | CAR000053405 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080013352 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 223 - Unspecified oil-containing waste |
| RCRA Code: | Not reported |

**CENTER MANUFACTURING INC (Continued)** **1004676656**

| | |
|---|---|
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 11.676 |
| Waste Quantity: | 2800 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20020530 |
| Creation Date: | 8/5/2002 18:31:21 |
| Receipt Date: | 20020530 |
| Manifest ID: | 21537758 |
| Trans EPA ID: | CAR000053405 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080013352 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 223 - Unspecified oil-containing waste |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 1.8765 |
| Waste Quantity: | 450 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20020426 |
| Creation Date: | 7/29/2002 18:39:34 |
| Receipt Date: | 20020426 |
| Manifest ID: | 21536706 |
| Trans EPA ID: | CAR000053405 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080013352 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 221 - Waste oil and mixed oil |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 2.09 |
| Waste Quantity: | 550 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

**CENTER MANUFACTURING INC (Continued)** **1004676656**

| | |
|---|---|
| Shipment Date: | 20020328 |
| Creation Date: | 7/9/2002 18:31:13 |
| Receipt Date: | 20020328 |
| Manifest ID: | 21536579 |
| Trans EPA ID: | CAR000053405 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080013352 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 221 - Waste oil and mixed oil |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 4.56 |
| Waste Quantity: | 1200 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20020325 |
| Creation Date: | 7/9/2002 18:31:13 |
| Receipt Date: | 20020325 |
| Manifest ID: | 21536537 |
| Trans EPA ID: | CAR000053405 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080013352 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 221 - Waste oil and mixed oil |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 6.84 |
| Waste Quantity: | 1800 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20020324 |
| Creation Date: | 7/9/2002 18:31:13 |
| Receipt Date: | 20020401 |
| Manifest ID: | 21776213 |
| Trans EPA ID: | CAD983668583 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080013352 |

**CENTER MANUFACTURING INC (Continued)** **1004676656**

| | |
|---|---|
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 135 - Unspecified aqueous solution |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 6.3 |
| Waste Quantity: | 1500 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20020221 |
| Creation Date: | 7/17/2002 18:32:08 |
| Receipt Date: | 20020221 |
| Manifest ID: | 21288323 |
| Trans EPA ID: | CAR000053405 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080013352 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 221 - Waste oil and mixed oil |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 15.675 |
| Waste Quantity: | 4125 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2001 |
| Gen EPA ID: | CAR000087924 |

| | |
|---|---|
| Shipment Date: | 20011114 |
| Creation Date: | 2/13/2002 0:00:00 |
| Receipt Date: | 20011114 |
| Manifest ID: | 21301774 |
| Trans EPA ID: | CAR000053405 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080013352 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 221 - Waste oil and mixed oil |
| RCRA Code: | Not reported |

**CENTER MANUFACTURING INC (Continued)** **1004676656**

| | |
|---|---|
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 14.25 |
| Waste Quantity: | 3750 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20010723 |
| Creation Date: | 10/3/2001 0:00:00 |
| Receipt Date: | 20010724 |
| Manifest ID: | 20437132 |
| Trans EPA ID: | CAR000053405 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080013352 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAT080013352 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 223 - Unspecified oil-containing waste |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 2.9815 |
| Waste Quantity: | 715 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20010315 |
| Creation Date: | 4/30/2001 0:00:00 |
| Receipt Date: | 20010315 |
| Manifest ID: | 20791375 |
| Trans EPA ID: | CAD028277036 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080025711 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAT080025711 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 134 - Aqueous solution with <10% total organic residues |
| RCRA Code: | Not reported |
| Meth Code: | H01 - Transfer Station |
| Quantity Tons: | 1.302 |
| Waste Quantity: | 310 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

**CENTER MANUFACTURING INC (Continued)** **1004676656**

NPDES:

| | |
|---|---|
| Name: | WESTERN MANUFACTURING INC |
| Address: | 1160 OLYMPIC DR |
| City,State,Zip: | CORONA, CA 92881 |
| Facility Status: | Active |
| NPDES Number: | CAS000001 |
| Region: | 8 |
| Agency Number: | 0 |
| Regulatory Measure ID: | 289043 |
| Place ID: | Not reported |
| Order Number: | 97-03-DWQ |
| WDID: | 8 33I019988 |
| Regulatory Measure Type: | Enrollee |
| Program Type: | Industrial |
| Adoption Date Of Regulatory Measure: | Not reported |
| Effective Date Of Regulatory Measure: | 12/21/2005 |
| Termination Date Of Regulatory Measure: | Not reported |
| Expiration Date Of Regulatory Measure: | Not reported |
| Discharge Address: | 1160 Olympic Dr |
| Discharge Name: | Western Manufactoring Inc |
| Discharge City: | Corona |
| Discharge State: | California |
| Discharge Zip: | 92881 |
| Status: | Not reported |
| Status Date: | Not reported |
| Operator Name: | Not reported |
| Operator Address: | Not reported |
| Operator City: | Not reported |
| Operator State: | Not reported |
| Operator Zip: | Not reported |

NPDES as of 03/2018:

| | |
|---|---|
| NPDES Number: | Not reported |
| Status: | Not reported |
| Agency Number: | Not reported |
| Region: | 8 |
| Regulatory Measure ID: | 289043 |
| Order Number: | Not reported |
| Regulatory Measure Type: | Industrial |
| Place ID: | Not reported |
| WDID: | 8 33I019988 |
| Program Type: | Not reported |
| Adoption Date Of Regulatory Measure: | Not reported |
| Effective Date Of Regulatory Measure: | Not reported |
| Expiration Date Of Regulatory Measure: | Not reported |
| Termination Date Of Regulatory Measure: | Not reported |
| Discharge Name: | Not reported |
| Discharge Address: | Not reported |
| Discharge City: | Not reported |
| Discharge State: | Not reported |
| Discharge Zip: | Not reported |
| Received Date: | 05/09/2008 |
| Processed Date: | 12/21/2005 |
| Status: | Active |
| Status Date: | 12/21/2005 |
| Place Size: | 6 |
| Place Size Unit: | Acres |

**CENTER MANUFACTURING INC (Continued)** **1004676656**

| | |
|---|---|
| Contact: | Tony Soriano |
| Contact Title: | Not reported |
| Contact Phone: | 951-284-2000 |
| Contact Phone Ext: | Not reported |
| Contact Email: | tsoriano@western-emi.com |
| Operator Name: | Western Manufactoring Inc |
| Operator Address: | 1160 Olympic Dr |
| Operator City: | Corona |
| Operator State: | California |
| Operator Zip: | 92881 |
| Operator Contact: | Darren Dyck |
| Operator Contact Title: | Not reported |
| Operator Contact Phone: | 951-284-2000 |
| Operator Contact Phone Ext: | Not reported |
| Operator Contact Email: | ddyck@western-emi.com |
| Operator Type: | Private Business |
| Developer: | Not reported |
| Developer Address: | Not reported |
| Developer City: | Not reported |
| Developer State: | California |
| Developer Zip: | Not reported |
| Developer Contact: | Not reported |
| Developer Contact Title: | Not reported |
| Constype Linear Utility Ind: | Not reported |
| Emergency Phone: | 951-295-1734 |
| Emergency Phone Ext: | Not reported |
| Constype Above Ground Ind: | Not reported |
| Constype Below Ground Ind: | Not reported |
| Constype Cable Line Ind: | Not reported |
| Constype Comm Line Ind: | Not reported |
| Constype Commertial Ind: | Not reported |
| Constype Electrical Line Ind: | Not reported |
| Constype Gas Line Ind: | Not reported |
| Constype Industrial Ind: | Not reported |
| Constype Other Description: | Not reported |
| Constype Other Ind: | Not reported |
| Constype Recons Ind: | Not reported |
| Constype Residential Ind: | Not reported |
| Constype Transport Ind: | Not reported |
| Constype Utility Description: | Not reported |
| Constype Utility Ind: | Not reported |
| Constype Water Sewer Ind: | Not reported |
| Dir Discharge Uswater Ind: | N |
| Receiving Water Name: | Santa Ana River |
| Certifier: | Darren Dyck |
| Certifier Title: | General Manager |
| Certification Date: | 28-MAY-15 |
| Primary Sic: | 3531-Construction Machinery and Equipment |
| Secondary Sic: | Not reported |
| Tertiary Sic: | Not reported |
| | |
| NPDES Number: | CAS000001 |
| Status: | Active |
| Agency Number: | 0 |
| Region: | 8 |
| Regulatory Measure ID: | 289043 |
| Order Number: | 97-03-DWQ |

**CENTER MANUFACTURING INC (Continued)** **1004676656**

| | |
|---|---|
| Regulatory Measure Type: | Enrollee |
| Place ID: | Not reported |
| WDID: | 8 33I019988 |
| Program Type: | Industrial |
| Adoption Date Of Regulatory Measure: | Not reported |
| Effective Date Of Regulatory Measure: | 12/21/2005 |
| Expiration Date Of Regulatory Measure: | Not reported |
| Termination Date Of Regulatory Measure: | Not reported |
| Discharge Name: | Western Manufactoring Inc |
| Discharge Address: | 1160 Olympic Dr |
| Discharge City: | Corona |
| Discharge State: | California |
| Discharge Zip: | 92881 |
| Received Date: | Not reported |
| Processed Date: | Not reported |
| Status: | Not reported |
| Status Date: | Not reported |
| Place Size: | Not reported |
| Place Size Unit: | Not reported |
| Contact: | Not reported |
| Contact Title: | Not reported |
| Contact Phone: | Not reported |
| Contact Phone Ext: | Not reported |
| Contact Email: | Not reported |
| Operator Name: | Not reported |
| Operator Address: | Not reported |
| Operator City: | Not reported |
| Operator State: | Not reported |
| Operator Zip: | Not reported |
| Operator Contact: | Not reported |
| Operator Contact Title: | Not reported |
| Operator Contact Phone: | Not reported |
| Operator Contact Phone Ext: | Not reported |
| Operator Contact Email: | Not reported |
| Operator Type: | Not reported |
| Developer: | Not reported |
| Developer Address: | Not reported |
| Developer City: | Not reported |
| Developer State: | Not reported |
| Developer Zip: | Not reported |
| Developer Contact: | Not reported |
| Developer Contact Title: | Not reported |
| Constype Linear Utility Ind: | Not reported |
| Emergency Phone: | Not reported |
| Emergency Phone Ext: | Not reported |
| Constype Above Ground Ind: | Not reported |
| Constype Below Ground Ind: | Not reported |
| Constype Cable Line Ind: | Not reported |
| Constype Comm Line Ind: | Not reported |
| Constype Commertial Ind: | Not reported |
| Constype Electrical Line Ind: | Not reported |
| Constype Gas Line Ind: | Not reported |
| Constype Industrial Ind: | Not reported |
| Constype Other Description: | Not reported |
| Constype Other Ind: | Not reported |
| Constype Recons Ind: | Not reported |
| Constype Residential Ind: | Not reported |

**CENTER MANUFACTURING INC (Continued)** **1004676656**

| | |
|---|---|
| Constype Transport Ind: | Not reported |
| Constype Utility Description: | Not reported |
| Constype Utility Ind: | Not reported |
| Constype Water Sewer Ind: | Not reported |
| Dir Discharge Uswater Ind: | Not reported |
| Receiving Water Name: | Not reported |
| Certifier: | Not reported |
| Certifier Title: | Not reported |
| Certification Date: | Not reported |
| Primary Sic: | Not reported |
| Secondary Sic: | Not reported |
| Tertiary Sic: | Not reported |

| | |
|---|---|
| Name: | WESTERN MANUFACTURING INC |
| Address: | 1160 OLYMPIC DR |
| City,State,Zip: | CORONA, CA 92881 |
| Facility Status: | Not reported |
| NPDES Number: | Not reported |
| Region: | Not reported |
| Agency Number: | Not reported |
| Regulatory Measure ID: | Not reported |
| Place ID: | Not reported |
| Order Number: | Not reported |
| WDID: | 8 33I019988 |
| Regulatory Measure Type: | Industrial |
| Program Type: | Not reported |
| Adoption Date Of Regulatory Measure: | Not reported |
| Effective Date Of Regulatory Measure: | Not reported |
| Termination Date Of Regulatory Measure: | Not reported |
| Expiration Date Of Regulatory Measure: | Not reported |
| Discharge Address: | Not reported |
| Discharge Name: | Not reported |
| Discharge City: | Not reported |
| Discharge State: | Not reported |
| Discharge Zip: | Not reported |
| Status: | Active |
| Status Date: | 12/21/2005 |
| Operator Name: | Western Manufactoring Inc |
| Operator Address: | 1160 Olympic Dr |
| Operator City: | Corona |
| Operator State: | California |
| Operator Zip: | 92881 |

NPDES as of 03/2018:

| | |
|---|---|
| NPDES Number: | Not reported |
| Status: | Not reported |
| Agency Number: | Not reported |
| Region: | 8 |
| Regulatory Measure ID: | 289043 |
| Order Number: | Not reported |
| Regulatory Measure Type: | Industrial |
| Place ID: | Not reported |
| WDID: | 8 33I019988 |
| Program Type: | Not reported |
| Adoption Date Of Regulatory Measure: | Not reported |
| Effective Date Of Regulatory Measure: | Not reported |
| Expiration Date Of Regulatory Measure: | Not reported |

**CENTER MANUFACTURING INC (Continued)** **1004676656**

| | |
|---|---|
| Termination Date Of Regulatory Measure: | Not reported |
| Discharge Name: | Not reported |
| Discharge Address: | Not reported |
| Discharge City: | Not reported |
| Discharge State: | Not reported |
| Discharge Zip: | Not reported |
| Received Date: | 05/09/2008 |
| Processed Date: | 12/21/2005 |
| Status: | Active |
| Status Date: | 12/21/2005 |
| Place Size: | 6 |
| Place Size Unit: | Acres |
| Contact: | Tony Soriano |
| Contact Title: | Not reported |
| Contact Phone: | 951-284-2000 |
| Contact Phone Ext: | Not reported |
| Contact Email: | tsoriano@western-emi.com |
| Operator Name: | Western Manufactoring Inc |
| Operator Address: | 1160 Olympic Dr |
| Operator City: | Corona |
| Operator State: | California |
| Operator Zip: | 92881 |
| Operator Contact: | Darren Dyck |
| Operator Contact Title: | Not reported |
| Operator Contact Phone: | 951-284-2000 |
| Operator Contact Phone Ext: | Not reported |
| Operator Contact Email: | ddyck@western-emi.com |
| Operator Type: | Private Business |
| Developer: | Not reported |
| Developer Address: | Not reported |
| Developer City: | Not reported |
| Developer State: | California |
| Developer Zip: | Not reported |
| Developer Contact: | Not reported |
| Developer Contact Title: | Not reported |
| Constype Linear Utility Ind: | Not reported |
| Emergency Phone: | 951-295-1734 |
| Emergency Phone Ext: | Not reported |
| Constype Above Ground Ind: | Not reported |
| Constype Below Ground Ind: | Not reported |
| Constype Cable Line Ind: | Not reported |
| Constype Comm Line Ind: | Not reported |
| Constype Commertial Ind: | Not reported |
| Constype Electrical Line Ind: | Not reported |
| Constype Gas Line Ind: | Not reported |
| Constype Industrial Ind: | Not reported |
| Constype Other Description: | Not reported |
| Constype Other Ind: | Not reported |
| Constype Recons Ind: | Not reported |
| Constype Residential Ind: | Not reported |
| Constype Transport Ind: | Not reported |
| Constype Utility Description: | Not reported |
| Constype Utility Ind: | Not reported |
| Constype Water Sewer Ind: | Not reported |
| Dir Discharge Uswater Ind: | N |
| Receiving Water Name: | Santa Ana River |
| Certifier: | Darren Dyck |

**CENTER MANUFACTURING INC (Continued)** **1004676656**

| | |
|---|---|
| Certifier Title: | General Manager |
| Certification Date: | 28-MAY-15 |
| Primary Sic: | 3531-Construction Machinery and Equipment |
| Secondary Sic: | Not reported |
| Tertiary Sic: | Not reported |
| | |
| NPDES Number: | CAS000001 |
| Status: | Active |
| Agency Number: | 0 |
| Region: | 8 |
| Regulatory Measure ID: | 289043 |
| Order Number: | 97-03-DWQ |
| Regulatory Measure Type: | Enrollee |
| Place ID: | Not reported |
| WDID: | 8 33I019988 |
| Program Type: | Industrial |
| Adoption Date Of Regulatory Measure: | Not reported |
| Effective Date Of Regulatory Measure: | 12/21/2005 |
| Expiration Date Of Regulatory Measure: | Not reported |
| Termination Date Of Regulatory Measure: | Not reported |
| Discharge Name: | Western Manufactoring Inc |
| Discharge Address: | 1160 Olympic Dr |
| Discharge City: | Corona |
| Discharge State: | California |
| Discharge Zip: | 92881 |
| Received Date: | Not reported |
| Processed Date: | Not reported |
| Status: | Not reported |
| Status Date: | Not reported |
| Place Size: | Not reported |
| Place Size Unit: | Not reported |
| Contact: | Not reported |
| Contact Title: | Not reported |
| Contact Phone: | Not reported |
| Contact Phone Ext: | Not reported |
| Contact Email: | Not reported |
| Operator Name: | Not reported |
| Operator Address: | Not reported |
| Operator City: | Not reported |
| Operator State: | Not reported |
| Operator Zip: | Not reported |
| Operator Contact: | Not reported |
| Operator Contact Title: | Not reported |
| Operator Contact Phone: | Not reported |
| Operator Contact Phone Ext: | Not reported |
| Operator Contact Email: | Not reported |
| Operator Type: | Not reported |
| Developer: | Not reported |
| Developer Address: | Not reported |
| Developer City: | Not reported |
| Developer State: | Not reported |
| Developer Zip: | Not reported |
| Developer Contact: | Not reported |
| Developer Contact Title: | Not reported |
| Constype Linear Utility Ind: | Not reported |
| Emergency Phone: | Not reported |
| Emergency Phone Ext: | Not reported |

**CENTER MANUFACTURING INC (Continued)** **1004676656**

| | |
|---|---|
| Constype Above Ground Ind: | Not reported |
| Constype Below Ground Ind: | Not reported |
| Constype Cable Line Ind: | Not reported |
| Constype Comm Line Ind: | Not reported |
| Constype Commertial Ind: | Not reported |
| Constype Electrical Line Ind: | Not reported |
| Constype Gas Line Ind: | Not reported |
| Constype Industrial Ind: | Not reported |
| Constype Other Description: | Not reported |
| Constype Other Ind: | Not reported |
| Constype Recons Ind: | Not reported |
| Constype Residential Ind: | Not reported |
| Constype Transport Ind: | Not reported |
| Constype Utility Description: | Not reported |
| Constype Utility Ind: | Not reported |
| Constype Water Sewer Ind: | Not reported |
| Dir Discharge Uswater Ind: | Not reported |
| Receiving Water Name: | Not reported |
| Certifier: | Not reported |
| Certifier Title: | Not reported |
| Certification Date: | Not reported |
| Primary Sic: | Not reported |
| Secondary Sic: | Not reported |
| Tertiary Sic: | Not reported |

WDS:

| | |
|---|---|
| Name: | CTR MANUFACTURING INC |
| Address: | 1160 Olympic Dr |
| City: | CORONA |
| Facility ID: | Santa Ana River 33I018262 |
| Facility Type: | Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping. |
| Facility Status: | Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements. |
| NPDES Number: | CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board |
| Subregion: | 8 |
| Facility Telephone: | 9095829642 |
| Facility Contact: | Freddie Burgess |
| Agency Name: | CTR MANUFACTURING INC |
| Agency Address: | 1160 Olympic Dr |
| Agency City,St,Zip: | Corona 928813390 |
| Agency Contact: | Freddie Burgess |
| Agency Telephone: | 9095829642 |
| Agency Type: | ? |
| SIC Code: | 0 |
| SIC Code 2: | Not reported |
| Primary Waste Type: | Not reported |
| Primary Waste: | Not reported |
| Waste Type2: | Not reported |
| Waste2: | Not reported |
| Primary Waste Type: | Not reported |

**CENTER MANUFACTURING INC (Continued)** **1004676656**

Secondary Waste: Not reported
Secondary Waste Type: Not reported
Design Flow: 0
Baseline Flow: 0
Reclamation: Not reported
POTW: Not reported
Treat To Water: Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.
Complexity: Category C - Facilities having no waste treatment systems, such as cooling water dischargers or thosewho must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

CIWQS:
Name: CTR MANUFACTURING INC
Address: 1160 OLYMPIC DR
City,State,Zip: CORONA, CA 92881
Agency: Center Manufacturing Inc
Agency Address: 1160 Olympic Dr, Corona, CA 92881
Place/Project Type: Industrial - Metal Stamping, NEC
SIC/NAICS: 3469
Region: 8
Program: INDSTW
Regulatory Measure Status: Terminated
Regulatory Measure Type: Storm water industrial
Order Number: 2014-0057-DWQ
WDID: 8 33I018262
NPDES Number: CAS000001
Adoption Date: Not reported
Effective Date: 07/18/2003
Termination Date: 10/05/2004
Expiration/Review Date: Not reported
Design Flow: Not reported
Major/Minor: Not reported
Complexity: Not reported
TTWQ: Not reported
Enforcement Actions within 5 years: 0
Violations within 5 years: 0
Latitude: 33.85953
Longitude: -117.54121

CERS:
Name: WESTERN EQUIPMENT MANUFACTURING, INC.
Address: 1160 OLYMPIC DR
City,State,Zip: CORONA, CA 92881
Site ID: 407585
CERS ID: 10446211
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 407585

**CENTER MANUFACTURING INC (Continued)** **1004676656**

Site Name: Western Equipment Manufacturing, Inc.
Violation Date: 04-05-2016
Citation: 22 CCR 15 66265.173 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.173
Violation Description: Failure to properly close hazardous waste containers when not in active use.
Violation Notes: Returned to compliance on 06/17/2016.
Violation Division: Riverside County Department of Env Health
Violation Program: HW
Violation Source: CERS,

Site ID: 407585
Site Name: Western Equipment Manufacturing, Inc.
Violation Date: 04-05-2016
Citation: 40 CFR 1 262.34(d)(5)(iii) - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 262.34(d)(5)(iii)
Violation Description: Failure to ensure employees are familiar with the handling and compliance of hazardous waste regulations and emergency response.
Violation Notes: Returned to compliance on 06/17/2016.
Violation Division: Riverside County Department of Env Health
Violation Program: HW
Violation Source: CERS,

Site ID: 407585
Site Name: Western Equipment Manufacturing, Inc.
Violation Date: 07-31-2015
Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description: Business Plan Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 12/09/2015. *Open containers *Remove spilled oil from ground *Above ground storage tank *Batteries need to be convered
Violation Division: Corona Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 407585
Site Name: Western Equipment Manufacturing, Inc.
Violation Date: 10-16-2015
Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description: Business Plan Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 12/09/2015. Open containers still occurring
Violation Division: Corona Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 407585
Site Name: Western Equipment Manufacturing, Inc.
Violation Date: 07-31-2015
Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description: Business Plan Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 10/16/2015. *Water in acetone containers is a violation.
Violation Division: Corona Fire Department
Violation Program: HMRRP

**CENTER MANUFACTURING INC (Continued)** **1004676656**

Violation Source: CERS,

Site ID: 407585
Site Name: Western Equipment Manufacturing, Inc.
Violation Date: 04-05-2016
Citation: 22 CCR 12 66262.34(d) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(d)
Violation Description: Failure to dispose of hazardous waste within 180 days (or 270 if waste is transported over 200 miles) for the generator who generates less than 1000 kilogram per month, but more than 100 kilograms per month.
Violation Notes: Returned to compliance on 06/17/2016.
Violation Division: Riverside County Department of Env Health
Violation Program: HW
Violation Source: CERS,

Site ID: 407585
Site Name: Western Equipment Manufacturing, Inc.
Violation Date: 10-05-2018
Citation: Un-Specified
Violation Description: Business Plan Program - Operations/Maintenance - General Local Ordinance
Violation Notes: Returned to compliance on 01/11/2019. Current permit is not valid. Contact Corona Fire at 736-2459 and obtain permit.
Violation Division: Corona Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 407585
Site Name: Western Equipment Manufacturing, Inc.
Violation Date: 07-31-2015
Citation: 19 CCR 4 2729.2(a)(3) - California Code of Regulations, Title 19, Chapter 4, Section(s) 2729.2(a)(3)
Violation Description: Failure to complete and/or submit an annotated site map if required by CUPA.
Violation Notes: Returned to compliance on 05/20/2016. Update map with new requirements.
Violation Division: Corona Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 407585
Site Name: Western Equipment Manufacturing, Inc.
Violation Date: 04-05-2016
Citation: 22 CCR 16 66266.81(a)(4)(B) - California Code of Regulations, Title 22, Chapter 16, Section(s) 66266.81(a)(4)(B)
Violation Description: Failure to retain disposal records of spent lead batteries for three years.
Violation Notes: Returned to compliance on 06/17/2016.
Violation Division: Riverside County Department of Env Health
Violation Program: HW
Violation Source: CERS,

Site ID: 407585
Site Name: Western Equipment Manufacturing, Inc.
Violation Date: 10-05-2018
Citation: HSC 6.95 25508.1(a)-(f) - California Health and Safety Code, Chapter 6.95, Section(s) 25508.1(a)-(f)

**CENTER MANUFACTURING INC (Continued)** **1004676656**

| | |
|---|---|
| Violation Description: | Failure to electronically update business plan within 30 days of any one of the following events: A 100 percent or more increase in the quantity of a previously disclosed material. Any handling of a previously undisclosed hazardous materials at or above reportable quantities. A change of business address, business ownership, or business name. A substantial change in the handler's operations that requires modification to any portion of the business plan. |
| Violation Notes: | Returned to compliance on 07/07/2021. You have not disclosed all tanks containing oil. You shall add 480 gallon tank plus both mobile fuel trucks to your inventory. * 480 tank was removed - Per Darren Dyck 7/7/2021 |
| Violation Division: | Corona Fire Department |
| Violation Program: | HMRRP |
| Violation Source: | CERS, |
| | |
| Site ID: | 407585 |
| Site Name: | Western Equipment Manufacturing, Inc. |
| Violation Date: | 07-10-2019 |
| Citation: | 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f) |
| Violation Description: | Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date. |
| Violation Notes: | Returned to compliance on 07/10/2019. Observed faded labels on the two 55 gallon used paint drums and missing labels on the three boxes containing paint booth filters. CORRECTED ON SITE |
| Violation Division: | Riverside County Department of Env Health |
| Violation Program: | HW |
| Violation Source: | CERS, |
| | |
| Site ID: | 407585 |
| Site Name: | Western Equipment Manufacturing, Inc. |
| Violation Date: | 07-31-2015 |
| Citation: | HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1) |
| Violation Description: | Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities. |
| Violation Notes: | Returned to compliance on 05/20/2016. Inventory needs to be updated from scratch. |
| Violation Division: | Corona Fire Department |
| Violation Program: | HMRRP |
| Violation Source: | CERS, |
| | |
| Site ID: | 407585 |
| Site Name: | Western Equipment Manufacturing, Inc. |
| Violation Date: | 07-31-2015 |
| Citation: | HSC 6.95 25508.2 - California Health and Safety Code, Chapter 6.95, Section(s) 25508.2 |
| Violation Description: | Failure to annually review and electronically certify that the business plan is complete, accurate, and up-to-date. |
| Violation Notes: | Returned to compliance on 05/20/2016. Update hazardous material information in C.E.R.S. |
| Violation Division: | Corona Fire Department |
| Violation Program: | HMRRP |

**CENTER MANUFACTURING INC (Continued)** **1004676656**

Violation Source: CERS,

Site ID: 407585
Site Name: Western Equipment Manufacturing, Inc.
Violation Date: 04-05-2016
Citation: 22 CCR 12 66262.40(c) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.40(c)
Violation Description: Failure to determine if the waste generated is a hazardous waste and to maintain analysis results for three years.
Violation Notes: Returned to compliance on 06/17/2016.
Violation Division: Riverside County Department of Env Health
Violation Program: HW
Violation Source: CERS,

Site ID: 407585
Site Name: Western Equipment Manufacturing, Inc.
Violation Date: 07-31-2015
Citation: HSC 6.95 25508.1(a)-(e) - California Health and Safety Code, Chapter 6.95, Section(s) 25508.1(a)-(e)
Violation Description: Failure to electronically update business plan within 30 days of any one of the following events: A 100 percent or more increase in the quantity of a previously disclosed material. Any handling of a previously undisclosed hazardous materials at or above reportable quantities. A change of business address, business ownership, or business name.
Violation Notes: Returned to compliance on 05/20/2016. See violation # 1010004
Violation Division: Corona Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 407585
Site Name: Western Equipment Manufacturing, Inc.
Violation Date: 07-31-2015
Citation: HSC 6.95 25505(a) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)
Violation Description: Owner/Operator failed to complete and/or submit a Hazardous Materials Business Plan when storing hazardous materials at or above the thresholds quantities of 55 gallons/500 lbs/200 cubic feet.
Violation Notes: Returned to compliance on 05/20/2016. Update HMBP in CERS.
Violation Division: Corona Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 407585
Site Name: Western Equipment Manufacturing, Inc.
Violation Date: 07-31-2015
Citation: HSC 6.95 25504(c) - California Health and Safety Code, Chapter 6.95, Section(s) 25504(c)
Violation Description: Failure to include provisions in the business plan to ensure that appropriate personnel receive initial and annual training.
Violation Notes: Returned to compliance on 05/20/2016. Provide annual employee training documents.
Violation Division: Corona Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 407585

**CENTER MANUFACTURING INC (Continued)** **1004676656**

Site Name: Western Equipment Manufacturing, Inc.
Violation Date: 07-31-2015
Citation: 19 CCR 6.95 25508(a)(1) - California Code of Regulations, Title 19, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit the Business Activities Page and/or Business Owner Operator Identification Page.
Violation Notes: Returned to compliance on 05/20/2016. Change no to yes on ASTs greater than 1320 gallons. Note as of 5/20/16 no ASTs
Violation Division: Corona Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 407585
Site Name: Western Equipment Manufacturing, Inc.
Violation Date: 10-05-2018
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit the Business Activities Page and/or Business Owner Operator Identification Page.
Violation Notes: Returned to compliance on 07/07/2021. Business Activities page is not correct. You shall answer yes to storing more than 1320 gallons of oil. * Inventory no longer meets this requirement*DA
Violation Division: Corona Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Evaluation:
Eval General Type: Other/Unknown
Eval Date: 01-11-2019
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Corona Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-05-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Corona Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-05-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Riverside County Department of Env Health
Eval Program: HW
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 06-16-2016
Violations Found: No

**CENTER MANUFACTURING INC (Continued)** **1004676656**

Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Riverside County Department of Env Health
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-10-2019
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Riverside County Department of Env Health
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-31-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Corona Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Enforcement Action:
Site ID: 407585
Site Name: Western Equipment Manufacturing, Inc.
Site Address: 1160 OLYMPIC DR
Site City: CORONA
Site Zip: 92881
Enf Action Date: 07-31-2015
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Corona Fire Department
Enf Action Program: HMRRP
Enf Action Source: CERS,

Site ID: 407585
Site Name: Western Equipment Manufacturing, Inc.
Site Address: 1160 OLYMPIC DR
Site City: CORONA
Site Zip: 92881
Enf Action Date: 07-31-2015
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Corona Fire Department
Enf Action Program: UNSPEC
Enf Action Source: CERS,

Site ID: 407585
Site Name: Western Equipment Manufacturing, Inc.
Site Address: 1160 OLYMPIC DR
Site City: CORONA
Site Zip: 92881
Enf Action Date: 10-16-2015

**CENTER MANUFACTURING INC (Continued)** **1004676656**

Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Corona Fire Department
Enf Action Program: UNSPEC
Enf Action Source: CERS,

Coordinates:
Site ID: 407585
Facility Name: Western Equipment Manufacturing, Inc.
Env Int Type Code: HMBP
Program ID: 10446211
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.,
Latitude: 33.858890
Longitude: -117.541150

Affiliation:
Affiliation Type Desc: Legal Owner
Entity Name: Kenneth Thompson
Entity Title: Not reported
Affiliation Address: 282 S. Anita Dr
Affiliation City: Orange
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 92868
Affiliation Phone: (714) 935-0900,

Affiliation Type Desc: Parent Corporation
Entity Name: Western Equipment Manufacturing, Inc.
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: CUPA District
Entity Name: Riverside Cnty Env Health
Entity Title: Not reported
Affiliation Address: 4065 County Circle Drive, Room 104
Affiliation City: Riverside
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92503
Affiliation Phone: (951) 358-5055,

Affiliation Type Desc: Document Preparer
Entity Name: TONY SORIANO
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported

**CENTER MANUFACTURING INC (Continued)** **1004676656**

Affiliation Phone: ,

Affiliation Type Desc: Environmental Contact
Entity Name: Tony Soriano
Entity Title: Not reported
Affiliation Address: 1160 Olympic Dr
Affiliation City: Corona
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92881
Affiliation Phone: ,

Affiliation Type Desc: Property Owner
Entity Name: Kenneth Thompson
Entity Title: Not reported
Affiliation Address: 282 S. Anita Dr
Affiliation City: Orange
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 92868
Affiliation Phone: (714) 935-0900,

Affiliation Type Desc: Identification Signer
Entity Name: Tony Soriano
Entity Title: Plant Supervisor
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 1160 Olympic Dr
Affiliation City: Corona
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92881
Affiliation Phone: ,

Affiliation Type Desc: Operator
Entity Name: Darren S. Dyck
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (951) 284-2000,

Name: WESTERN MANUFACTURING INC
Address: 1160 OLYMPIC DR
City,State,Zip: CORONA, CA 92881
Site ID: 546647

**CENTER MANUFACTURING INC (Continued)** **1004676656**

CERS ID: 626449
CERS Description: Industrial Facility Storm Water

Affiliation:
Affiliation Type Desc: Owner/Operator
Entity Name: Western Manufactoring Inc
Entity Title: Operator
Affiliation Address: 1160 Olympic Dr
Affiliation City: Corona
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92881
Affiliation Phone: ,

HWTS:
Name: CENTER MANUFACTURING INC
Address: 1160 OLYMPIC DR
Address 2: Not reported
City,State,Zip: CORONA, CA 92881
EPA ID: CAR000087924
Inactive Date: 06/30/2004
Create Date: 04/03/2001
Last Act Date: Not reported
Mailing Name: Not reported
Mailing Address: 1160 OLYMPIC DR
Mailing Address 2: Not reported
Mailing City,State,Zip: CORONA, CA 928810000
Owner Name: CORP HEADQUARTERS CNTR MFG INC
Owner Address: 990 84TH STREET
Owner Address 2: Not reported
Owner City,State,Zip: BYRON CENTER, MI 493159384
Contact Name: FREDDIE BURGESS
Contact Address: 1160 OLYMPIC DR
Contact Address 2: Not reported
City,State,Zip: CORONA, CA 928810000
Facility Status: Inactive
Facility Type: PERMANENT
Category: FEDERAL
Latitude: 33.859535
Longitude: -117.541256

NAICS:
EPA ID: CAR000087924
Create Date: 2002-03-14 16:36:30.000
NAICS Code: 3321
NAICS Description: Forging and Stamping
Issued EPA ID Date: 2001-04-03 00:00:00
Inactive Date: 2004-06-30 00:00:00
Facility Name: CENTER MANUFACTURING INC
Facility Address: 1160 OLYMPIC DR
Facility Address 2: Not reported
Facility City: CORONA
Facility County: Not reported
Facility State: CA
Facility Zip: 928810000

**K41** **WESTERN EQUIPMENT MANUFACTURING INC** **RCRA NonGen / NLR** **1024827519**
**East** **1160 OLYMPIC DR** **CAL000357273**
**1/8-1/4** **CORONA, CA 92881**
**0.209 mi.**
**1102 ft.** **Site 2 of 2 in cluster K**

**Relative:** **Lower**

**Actual:** **753 ft.**

RCRA NonGen / NLR:

| | |
|---|---|
| Date Form Received by Agency: | 20100928 |
| Handler Name: | WESTERN EQUIPMENT MANUFACTURING INC |
| Handler Address: | 1160 OLYMPIC DR |
| Handler City,State,Zip: | CORONA, CA 92881-3390 |
| EPA ID: | CAL000357273 |
| Contact Name: | DARREN DYCK |
| Contact Address: | 1160 OLYMPIC DR |
| Contact City,State,Zip: | CORONA, CA 92881 |
| Contact Telephone: | 951-284-2000 |
| Contact Fax: | 951-284-2050 |
| Contact Email: | DDYCK@WESTERN-EMI.COM |
| Contact Title: | Not reported |
| EPA Region: | 09 |
| Land Type: | Not reported |
| Federal Waste Generator Description: | Not a generator, verified |
| Non-Notifier: | Not reported |
| Biennial Report Cycle: | Not reported |
| Accessibility: | Not reported |
| Active Site Indicator: | Handler Activities |
| State District Owner: | Not reported |
| State District: | Not reported |
| Mailing Address: | 1160 OLYMPIC DR |
| Mailing City,State,Zip: | CORONA, CA 92881-3390 |
| Owner Name: | WESTERN EQUIPMENT MANUFACTURING INC |
| Owner Type: | Other |
| Operator Name: | DARREN DYCK |
| Operator Type: | Other |
| Short-Term Generator Activity: | No |
| Importer Activity: | No |
| Mixed Waste Generator: | No |
| Transporter Activity: | No |
| Transfer Facility Activity: | No |
| Recycler Activity with Storage: | No |
| Small Quantity On-Site Burner Exemption: | No |
| Smelting Melting and Refining Furnace Exemption: | No |
| Underground Injection Control: | No |
| Off-Site Waste Receipt: | No |
| Universal Waste Indicator: | Yes |
| Universal Waste Destination Facility: | Yes |
| Federal Universal Waste: | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site State-Reg Handler: | --- |
| Federal Facility Indicator: | Not reported |
| Hazardous Secondary Material Indicator: | N |
| Sub-Part K Indicator: | Not reported |
| Commercial TSD Indicator: | No |
| Treatment Storage and Disposal Type: | Not reported |
| 2018 GPRA Permit Baseline: | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | Not on the Baseline |
| Permit Renewals Workload Universe: | Not reported |

**WESTERN EQUIPMENT MANUFACTURING INC (Continued)** **1024827519**

| | |
|---|---|
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 20180905 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | No |
| Manifest Broker: | No |
| Sub-Part P Indicator: | No |

Handler - Owner Operator:

| | |
|---|---|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | WESTERN EQUIPMENT MANUFACTURING INC |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 282 S ANITA DR |
| Owner/Operator City,State,Zip: | ORANGE, CA 92868-3308 |
| Owner/Operator Telephone: | 714-935-0900 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

| | |
|---|---|
| Owner/Operator Indicator: | Operator |
| Owner/Operator Name: | DARREN DYCK |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 1160 OLYMPIC DR |
| Owner/Operator City,State,Zip: | CORONA, CA 92881 |
| Owner/Operator Telephone: | 951-284-2000 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

**WESTERN EQUIPMENT MANUFACTURING INC (Continued)** **1024827519**

Historic Generators:
Receive Date: 20100928
Handler Name: WESTERN EQUIPMENT MANUFACTURING INC
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 33651
NAICS Description: RAILROAD ROLLING STOCK MANUFACTURING

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

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**I42** **HOOSIER PLASTIC FABRICATION** **CERS HAZ WASTE** **S113040360**
**ENE** **1152 CALIFORNIA AVE** **HAZNET** **N/A**
**1/8-1/4** **CORONA, CA 92881** **NPDES**
**0.212 mi.** **CIWQS**
**1121 ft.** **Site 6 of 7 in cluster I** **CERS**
**HWTS**

**Relative:**
**Lower**

**Actual:**
**735 ft.**

CERS HAZ WASTE:
Name: HOOSIER PLASTIC FABRICATION
Address: 1152 CALIFORNIA AVE
City,State,Zip: CORONA, CA 92881
Site ID: 36983
CERS ID: 10499644
CERS Description: Hazardous Waste Generator

HAZNET:
Name: HOOSIER INC
Address: 1152 CALIFORNIA AVE
Address 2: Not reported
City,State,Zip: CORONA, CA 928770000
Contact: JOE KIMBREL
Telephone: 9512723070
Mailing Name: Not reported
Mailing Address: PO BOX 78926

Year: 2019
Gepaid: CAL000046313
TSD EPA ID: AZR000520304
CA Waste Code: 134 - Aqueous solution with total organic residues less than 10 percent

**HOOSIER PLASTIC FABRICATION (Continued)** **S113040360**

Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 8.27400

Year: 2018
Gepaid: CAL000046313
TSD EPA ID: AZR000501510
CA Waste Code: 134 - Aqueous solution with total organic residues less than 10 percent
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 1.38600

Year: 2018
Gepaid: CAL000046313
TSD EPA ID: AZR000520304
CA Waste Code: 134 - Aqueous solution with total organic residues less than 10 percent
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 4.15800

Year: 2018
Gepaid: CAL000046313
TSD EPA ID: AZR000520304
CA Waste Code: 352 - Other organic solids
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.15000

Year: 2017
Gepaid: CAL000046313
TSD EPA ID: AZR000501510
CA Waste Code: 134 - Aqueous solution with total organic residues less than 10 percent
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 8.316

Year: 2016
Gepaid: CAL000046313
TSD EPA ID: AZR000501510
CA Waste Code: 134 - Aqueous solution with total organic residues less than 10 percent
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 4.158

Year: 2015
Gepaid: CAL000046313
TSD EPA ID: AZR000501510
CA Waste Code: 134 - Aqueous solution with total organic residues less than 10 percent
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 11.088

**HOOSIER PLASTIC FABRICATION (Continued)** **S113040360**

| | |
|---|---|
| Year: | 2014 |
| Gepaid: | CAL000046313 |
| TSD EPA ID: | AZR000501510 |
| CA Waste Code: | 134 - Aqueous solution with total organic residues less than 10 percent |
| Disposal Method: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Tons: | 6.93 |
| | |
| Year: | 2013 |
| Gepaid: | CAL000046313 |
| TSD EPA ID: | AZR000501510 |
| CA Waste Code: | 134 - Aqueous solution with total organic residues less than 10 percent |
| Disposal Method: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Tons: | 15.246 |
| | |
| Year: | 2012 |
| Gepaid: | CAL000046313 |
| TSD EPA ID: | CAD981696420 |
| CA Waste Code: | 223 - Unspecified oil-containing waste |
| Disposal Method: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Tons: | 2.7522 |

Click this hyperlink while viewing on your computer to access
27 additional CA HAZNET: record(s) in the EDR Site Report.

Additional Info:

| | |
|---|---|
| Year: | 2011 |
| Gen EPA ID: | CAL000046313 |
| | |
| Shipment Date: | 20111102 |
| Creation Date: | 1/20/2012 20:31:29 |
| Receipt Date: | 20111114 |
| Manifest ID: | 001619813GBF |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |
| Trans 2 EPA ID: | CAD982413262 |
| Trans 2 Name: | EVERGREEN ENVIRONMENTAL SERVICES |
| TSDF EPA ID: | CAD981696420 |
| Trans Name: | EVERGREEN ENVIRONMENTAL SERVICES |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | - Not reported |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | Not reported |
| Waste Quantity: | Not reported |
| Quantity Unit: | Not reported |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |

**HOOSIER PLASTIC FABRICATION (Continued)** **S113040360**

| | |
|---|---|
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20111102 |
| Creation Date: | 1/20/2012 20:31:29 |
| Receipt Date: | 20111114 |
| Manifest ID: | 001619813GBF |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |
| Trans 2 EPA ID: | CAD982413262 |
| Trans 2 Name: | EVERGREEN ENVIRONMENTAL SERVICES |
| TSDF EPA ID: | CAD981696420 |
| Trans Name: | EVERGREEN ENVIRONMENTAL SERVICES |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 223 - Unspecified oil-containing waste |
| RCRA Code: | Not reported |
| Meth Code: | - Not reported |
| Quantity Tons: | 2.7522 |
| Waste Quantity: | 660 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20110830 |
| Creation Date: | 11/8/2011 18:30:28 |
| Receipt Date: | 20110916 |
| Manifest ID: | 001384937GBF |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |
| Trans 2 EPA ID: | CAD982413262 |
| Trans 2 Name: | EVERGREEN ENVIRONMENTAL SERVICES |
| TSDF EPA ID: | CAD981696420 |
| Trans Name: | EVERGREEN ENVIRONMENTAL SERVICES |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 223 - Unspecified oil-containing waste |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 2.7522 |
| Waste Quantity: | 660 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20110627 |
| Creation Date: | 8/26/2011 18:30:51 |
| Receipt Date: | 20110701 |
| Manifest ID: | 001385092GBF |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |

**HOOSIER PLASTIC FABRICATION (Continued)** **S113040360**

| | |
|---|---|
| Trans 2 EPA ID: | CAD982413262 |
| Trans 2 Name: | EVERGREEN ENVIRONMENTAL SERVICES |
| TSDF EPA ID: | CAD981696420 |
| Trans Name: | EVERGREEN ENVIRONMENTAL SERVICES |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 223 - Unspecified oil-containing waste |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 2.7522 |
| Waste Quantity: | 660 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20110627 |
| Creation Date: | 9/1/2011 18:31:36 |
| Receipt Date: | 20110714 |
| Manifest ID: | 001385112GBF |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD982444481 |
| Trans Name: | FILTER RECYCLING SERVICES |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 352 - Other organic solids |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.075 |
| Waste Quantity: | 150 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20110311 |
| Creation Date: | 5/19/2011 18:30:24 |
| Receipt Date: | 20110316 |
| Manifest ID: | 001385425GBF |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |
| Trans 2 EPA ID: | CAD982413262 |
| Trans 2 Name: | EVERGREEN ENVIRONMENTAL SERVICES |
| TSDF EPA ID: | CAD981696420 |
| Trans Name: | EVERGREEN ENVIRONMENTAL SERVICES |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 223 - Unspecified oil-containing waste |

**HOOSIER PLASTIC FABRICATION (Continued)** **S113040360**

RCRA Code: Not reported
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons: 2.7522
Waste Quantity: 660
Quantity Unit: G
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20110210
Creation Date: 4/22/2011 18:31:11
Receipt Date: 20110216
Manifest ID: 001385332GBF
Trans EPA ID: CAL000224539
Trans Name: FRS ENVIRONMENTAL INC
Trans 2 EPA ID: CAD982413262
Trans 2 Name: EVERGREEN ENVIRONMENTAL SERVICES
TSDF EPA ID: CAD981696420
Trans Name: EVERGREEN ENVIRONMENTAL SERVICES
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 223 - Unspecified oil-containing waste
RCRA Code: Not reported
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons: 2.7522
Waste Quantity: 660
Quantity Unit: G
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:
Year: 2010
Gen EPA ID: CAL000046313

Shipment Date: 20101019
Creation Date: 1/3/2011 18:31:25
Receipt Date: 20101029
Manifest ID: 001293275GBF
Trans EPA ID: CAL000224539
Trans Name: FRS ENVIRONMENTAL INC
Trans 2 EPA ID: CAD982413262
Trans 2 Name: EVERGREEN ENVIRONMENTAL SERVICES
TSDF EPA ID: CAD981696420
Trans Name: EVERGREEN ENVIRONMENTAL SERVICES
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 223 - Unspecified oil-containing waste
RCRA Code: Not reported
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)

**HOOSIER PLASTIC FABRICATION (Continued)** **S113040360**

| | |
|---|---|
| Quantity Tons: | 2.7522 |
| Waste Quantity: | 660 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20100706 |
| Creation Date: | 9/10/2010 18:30:47 |
| Receipt Date: | 20100715 |
| Manifest ID: | 000379753GBF |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL |
| Trans 2 EPA ID: | CAD982413262 |
| Trans 2 Name: | EVERGREEN ENVIROMENTAL SERVICES |
| TSDF EPA ID: | CAD981696420 |
| Trans Name: | EVERGREEN ENVIROMENTAL SERVICES |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 134 - Aqueous solution with <10% total organic residues |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | Not reported |
| Waste Quantity: | 500 |
| Quantity Unit: | Not reported |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20100607 |
| Creation Date: | 8/26/2010 18:30:32 |
| Receipt Date: | 20100609 |
| Manifest ID: | 001293816GBF |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |
| Trans 2 EPA ID: | CAD982413262 |
| Trans 2 Name: | EVERGREEN ENVIRONMENTAL SERVICES |
| TSDF EPA ID: | CAD981696420 |
| Trans Name: | EVERGREEN ENVIRONMENTAL SERVICES |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 223 - Unspecified oil-containing waste |
| RCRA Code: | Not reported |
| Meth Code: | - Not reported |
| Quantity Tons: | 2.7522 |
| Waste Quantity: | 660 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

**HOOSIER PLASTIC FABRICATION (Continued)** **S113040360**

| | |
|---|---|
| Shipment Date: | 20100607 |
| Creation Date: | 8/26/2010 18:30:32 |
| Receipt Date: | 20100609 |
| Manifest ID: | 001293816GBF |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |
| Trans 2 EPA ID: | CAD982413262 |
| Trans 2 Name: | EVERGREEN ENVIRONMENTAL SERVICES |
| TSDF EPA ID: | CAD981696420 |
| Trans Name: | EVERGREEN ENVIRONMENTAL SERVICES |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 223 - Unspecified oil-containing waste |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | Not reported |
| Waste Quantity: | Not reported |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20100331 |
| Creation Date: | 6/29/2010 18:30:54 |
| Receipt Date: | 20100409 |
| Manifest ID: | 000934985GBF |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |
| Trans 2 EPA ID: | CAD982413262 |
| Trans 2 Name: | EVERGREEN ENVIRONMENTAL SERVICES |
| TSDF EPA ID: | CAD981696420 |
| Trans Name: | EVERGREEN ENVIRONMENTAL SERVICES |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 223 - Unspecified oil-containing waste |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 2.2935 |
| Waste Quantity: | 550 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2016 |
| Gen EPA ID: | CAL000046313 |

| | |
|---|---|
| Shipment Date: | 20150922 |
| Creation Date: | 5/4/2016 22:15:08 |
| Receipt Date: | 20151012 |

**HOOSIER PLASTIC FABRICATION (Continued)** **S113040360**

| | |
|---|---|
| Manifest ID: | 002736535GBF |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |
| Trans 2 EPA ID: | CAD980585293 |
| Trans 2 Name: | INDUSTRIAL WASTE UTILIZATION INC |
| TSDF EPA ID: | AZR000501510 |
| Trans Name: | AA SYDCOL LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 134 - Aqueous solution with <10% total organic residues |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 1.386 |
| Waste Quantity: | 330 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20150824 |
| Creation Date: | 2/9/2016 22:16:04 |
| Receipt Date: | 20150831 |
| Manifest ID: | 002736402GBF |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |
| Trans 2 EPA ID: | CAD980585293 |
| Trans 2 Name: | INDUSTRIAL WASTE UTILIZATION INC |
| TSDF EPA ID: | AZR000501510 |
| Trans Name: | AA SYDCOL LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 134 - Aqueous solution with <10% total organic residues |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 1.386 |
| Waste Quantity: | 330 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20150625 |
| Creation Date: | 2/4/2016 22:15:46 |
| Receipt Date: | 20150716 |
| Manifest ID: | 002736821GBF |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |
| Trans 2 EPA ID: | CAD980585293 |
| Trans 2 Name: | INDUSTRIAL WASTE UTILIZATION INC |
| TSDF EPA ID: | AZR000501510 |
| Trans Name: | AA SYDCOL LLC |

**HOOSIER PLASTIC FABRICATION (Continued)** **S113040360**

| | |
|---|---|
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 134 - Aqueous solution with <10% total organic residues |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 1.386 |
| Waste Quantity: | 330 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20150528 |
| Creation Date: | 11/9/2015 22:15:07 |
| Receipt Date: | 20150609 |
| Manifest ID: | 002736728GBF |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |
| Trans 2 EPA ID: | CAD980585293 |
| Trans 2 Name: | INDUSTRIAL WASTE UTILIZATION INC |
| TSDF EPA ID: | AZR000501510 |
| Trans Name: | AA SYDCOL LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 134 - Aqueous solution with <10% total organic residues |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 1.386 |
| Waste Quantity: | 330 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20150423 |
| Creation Date: | 11/5/2015 22:15:08 |
| Receipt Date: | 20150514 |
| Manifest ID: | 002506444GBF |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |
| Trans 2 EPA ID: | CAD980585293 |
| Trans 2 Name: | INDUSTRIAL WASTE UTILIZATION INC |
| TSDF EPA ID: | AZR000501510 |
| Trans Name: | AA SYDCOL LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 134 - Aqueous solution with <10% total organic residues |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 1.386 |

**HOOSIER PLASTIC FABRICATION (Continued)** **S113040360**

| | |
|---|---|
| Waste Quantity: | 330 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20150303 |
| Creation Date: | 8/10/2015 22:15:09 |
| Receipt Date: | 20150311 |
| Manifest ID: | 002506269GBF |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |
| Trans 2 EPA ID: | CAD980585293 |
| Trans 2 Name: | INDUSTRIAL WASTE UTILIZATION INC |
| TSDF EPA ID: | AZR000501510 |
| Trans Name: | AA SYDCOL LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 134 - Aqueous solution with <10% total organic residues |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 1.386 |
| Waste Quantity: | 330 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20150209 |
| Creation Date: | 11/9/2015 22:15:17 |
| Receipt Date: | 20150218 |
| Manifest ID: | 002506196GBF |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |
| Trans 2 EPA ID: | CAD980585293 |
| Trans 2 Name: | INDUSTRIAL WASTE UTILIZATION INC |
| TSDF EPA ID: | AZR000501510 |
| Trans Name: | AA SYDCOL LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 134 - Aqueous solution with <10% total organic residues |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 2.772 |
| Waste Quantity: | 660 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

**HOOSIER PLASTIC FABRICATION (Continued)** **S113040360**

Additional Info:

| | |
|---|---|
| Year: | 2013 |
| Gen EPA ID: | CAL000046313 |
| Shipment Date: | 20131213 |
| Creation Date: | 5/14/2014 22:15:01 |
| Receipt Date: | 20131228 |
| Manifest ID: | 002177489GBF |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |
| Trans 2 EPA ID: | CAD980585293 |
| Trans 2 Name: | INDUSTRIAL WASTE UTILIZATION INC |
| TSDF EPA ID: | AZR000501510 |
| Trans Name: | AA SYDCOL LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 134 - Aqueous solution with <10% total organic residues |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 2.772 |
| Waste Quantity: | 660 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| Shipment Date: | 20131014 |
| Creation Date: | 3/3/2014 22:15:27 |
| Receipt Date: | 20131021 |
| Manifest ID: | 002177307GBF |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |
| Trans 2 EPA ID: | CAD980585293 |
| Trans 2 Name: | INDUSTRIAL WASTE UTILIZATION INC |
| TSDF EPA ID: | AZR000501510 |
| Trans Name: | AA SYDCOL LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 134 - Aqueous solution with <10% total organic residues |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 4.158 |
| Waste Quantity: | 990 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| Shipment Date: | 20130718 |
| Creation Date: | 12/19/2013 22:15:06 |
| Receipt Date: | 20130731 |

**HOOSIER PLASTIC FABRICATION (Continued)** **S113040360**

| | |
|---|---|
| Manifest ID: | 002177030GBF |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |
| Trans 2 EPA ID: | CAD980585293 |
| Trans 2 Name: | INDUSTRIAL WASTE UTILIZATION INC |
| TSDF EPA ID: | AZR000501510 |
| Trans Name: | AA SYDCOL LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 134 - Aqueous solution with <10% total organic residues |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 2.772 |
| Waste Quantity: | 660 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20130408 |
| Creation Date: | 8/23/2013 22:15:06 |
| Receipt Date: | 20130418 |
| Manifest ID: | 002070478GBF |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |
| Trans 2 EPA ID: | CAD980585293 |
| Trans 2 Name: | INDUSTRIAL WASTE UTILIZATION INC |
| TSDF EPA ID: | AZR000501510 |
| Trans Name: | AA SYDCOL LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 134 - Aqueous solution with <10% total organic residues |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 2.772 |
| Waste Quantity: | 660 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20130107 |
| Creation Date: | 3/19/2013 22:15:10 |
| Receipt Date: | 20130128 |
| Manifest ID: | 001875985GBF |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |
| Trans 2 EPA ID: | CAD980585293 |
| Trans 2 Name: | INDUSTRIAL WASTE UTILIZATION INC |
| TSDF EPA ID: | AZR000501510 |
| Trans Name: | AA SYDCOL LLC |

**HOOSIER PLASTIC FABRICATION (Continued)** **S113040360**

| | |
|---|---|
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 134 - Aqueous solution with <10% total organic residues |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 2.772 |
| Waste Quantity: | 660 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2017 |
| Gen EPA ID: | CAL000046313 |
| Shipment Date: | 20171003 |
| Creation Date: | 11/8/2018 18:30:45 |
| Receipt Date: | 20171012 |
| Manifest ID: | 003521921GBF |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |
| Trans 2 EPA ID: | CAD980585293 |
| Trans 2 Name: | INDUSTRIAL WASTE UTILIZATION INC |
| TSDF EPA ID: | AZR000501510 |
| Trans Name: | AA SYDCOL LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 134 - Aqueous solution with <10% total organic residues |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 2.52 |
| Waste Quantity: | 600 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| Shipment Date: | 20170718 |
| Creation Date: | 8/1/2018 18:31:24 |
| Receipt Date: | 20170810 |
| Manifest ID: | 003420471GBF |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |
| Trans 2 EPA ID: | CAD980585293 |
| Trans 2 Name: | INDUSTRIAL WASTE UTILIZATION INC |
| TSDF EPA ID: | AZR000501510 |
| Trans Name: | AA SYDCOL LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 134 - Aqueous solution with <10% total organic residues |

**HOOSIER PLASTIC FABRICATION (Continued)** **S113040360**

| | |
|---|---|
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 1.386 |
| Waste Quantity: | 330 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20170525 |
| Creation Date: | 7/11/2018 18:31:13 |
| Receipt Date: | 20170622 |
| Manifest ID: | 003420299GBF |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |
| Trans 2 EPA ID: | CAD980585293 |
| Trans 2 Name: | INDUSTRIAL WASTE UTILIZATION INC |
| TSDF EPA ID: | AZR000501510 |
| Trans Name: | AA SYDCOL LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 134 - Aqueous solution with <10% total organic residues |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 2.772 |
| Waste Quantity: | 660 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20170427 |
| Creation Date: | 5/12/2018 18:32:16 |
| Receipt Date: | 20170503 |
| Manifest ID: | 003185860GBF |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |
| Trans 2 EPA ID: | CAD980585293 |
| Trans 2 Name: | INDUSTRIAL WASTE UTILIZATION INC |
| TSDF EPA ID: | AZR000501510 |
| Trans Name: | AA SYDCOL LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 134 - Aqueous solution with <10% total organic residues |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 1.386 |
| Waste Quantity: | 330 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |

**HOOSIER PLASTIC FABRICATION (Continued)** **S113040360**

| | |
|---|---|
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20170327 |
| Creation Date: | 5/12/2018 18:30:23 |
| Receipt Date: | 20170405 |
| Manifest ID: | 003185771GBF |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |
| Trans 2 EPA ID: | CAD980585293 |
| Trans 2 Name: | INDUSTRIAL WASTE UTILIZATION INC |
| TSDF EPA ID: | AZR000501510 |
| Trans Name: | AA SYDCOL LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 134 - Aqueous solution with <10% total organic residues |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 1.386 |
| Waste Quantity: | 330 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20170126 |
| Creation Date: | 5/9/2018 18:31:21 |
| Receipt Date: | 20170207 |
| Manifest ID: | 003185566GBF |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |
| Trans 2 EPA ID: | CAD980585293 |
| Trans 2 Name: | INDUSTRIAL WASTE UTILIZATION INC |
| TSDF EPA ID: | AZR000501510 |
| Trans Name: | AA SYDCOL LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 134 - Aqueous solution with <10% total organic residues |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 1.386 |
| Waste Quantity: | 330 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2004 |

**HOOSIER PLASTIC FABRICATION (Continued)** **S113040360**

| | |
|---|---|
| Gen EPA ID: | CAL000046313 |
| | |
| Shipment Date: | 20040810 |
| Creation Date: | 1/6/2005 18:30:52 |
| Receipt Date: | 20040813 |
| Manifest ID: | 23641884 |
| Trans EPA ID: | CAL931024038 |
| Trans Name: | PRIME ENVIRONMENTAL SERVICES |
| Trans 2 EPA ID: | CAD983649880 |
| Trans 2 Name: | GENERAL ENVIRONMENTAL MANAGEMENT |
| TSDF EPA ID: | CAT080033681 |
| Trans Name: | DK ENVIRONMENTAL |
| TSDF Alt EPA ID: | CAT080033681 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 223 - Unspecified oil-containing waste |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.22935 |
| Waste Quantity: | 55 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20040810 |
| Creation Date: | 1/6/2005 18:30:52 |
| Receipt Date: | 20040813 |
| Manifest ID: | 23641884 |
| Trans EPA ID: | CAL931024038 |
| Trans Name: | PRIME ENVIRONMENTAL SERVICES |
| Trans 2 EPA ID: | CAD983649880 |
| Trans 2 Name: | GENERAL ENVIRONMENTAL MANAGEMENT |
| TSDF EPA ID: | CAT080033681 |
| Trans Name: | DK ENVIRONMENTAL |
| TSDF Alt EPA ID: | CAT080033681 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 223 - Unspecified oil-containing waste |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.9174 |
| Waste Quantity: | 220 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2009 |
| Gen EPA ID: | CAL000046313 |
| | |
| Shipment Date: | 20090813 |
| Creation Date: | 10/23/2009 18:30:20 |
| Receipt Date: | 20090826 |

**HOOSIER PLASTIC FABRICATION (Continued)** **S113040360**

| | |
|---|---|
| Manifest ID: | 000935188GBF |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD981696420 |
| Trans Name: | EVERGREEN ENVIRONMENTAL SERVICES |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 223 - Unspecified oil-containing waste |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 1.0425 |
| Waste Quantity: | 250 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20090727 |
| Creation Date: | 10/6/2009 18:30:09 |
| Receipt Date: | 20090806 |
| Manifest ID: | 000934520GBF |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD981696420 |
| Trans Name: | EVERGREEN ENVIRONMENTAL SERVICES |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 223 - Unspecified oil-containing waste |
| RCRA Code: | Not reported |
| Meth Code: | - Not reported |
| Quantity Tons: | Not reported |
| Waste Quantity: | Not reported |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20090727 |
| Creation Date: | 10/6/2009 18:30:09 |
| Receipt Date: | 20090806 |
| Manifest ID: | 000934520GBF |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD981696420 |
| Trans Name: | EVERGREEN ENVIRONMENTAL SERVICES |
| TSDF Alt EPA ID: | Not reported |

**HOOSIER PLASTIC FABRICATION (Continued)** **S113040360**

| | |
|---|---|
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 223 - Unspecified oil-containing waste |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 1.0425 |
| Waste Quantity: | 250 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20090422 |
| Creation Date: | 5/29/2009 18:30:11 |
| Receipt Date: | 20090427 |
| Manifest ID: | 000758108GBF |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD981696420 |
| Trans Name: | EVERGREEN ENVIRONMENTAL SERVICES |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 223 - Unspecified oil-containing waste |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 4.17 |
| Waste Quantity: | 1000 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2014 |
| Gen EPA ID: | CAL000046313 |
| | |
| Shipment Date: | 20141016 |
| Creation Date: | 5/27/2015 22:15:25 |
| Receipt Date: | 20141021 |
| Manifest ID: | 002506467GBF |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |
| Trans 2 EPA ID: | CAD980585293 |
| Trans 2 Name: | INDUSTRIAL WASTE UTILIZATION INC |
| TSDF EPA ID: | AZR000501510 |
| Trans Name: | AA SYDCOL LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 134 - Aqueous solution with <10% total organic residues |
| RCRA Code: | Not reported |

**HOOSIER PLASTIC FABRICATION (Continued)** **S113040360**

| | |
|---|---|
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 2.772 |
| Waste Quantity: | 660 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20140723 |
| Creation Date: | 1/25/2015 22:15:12 |
| Receipt Date: | 20140809 |
| Manifest ID: | 002505906GBF |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |
| Trans 2 EPA ID: | CAD980585293 |
| Trans 2 Name: | INDUSTRIAL WASTE UTILIZATION INC |
| TSDF EPA ID: | AZR000501510 |
| Trans Name: | AA SYDCOL LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 134 - Aqueous solution with <10% total organic residues |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 1.386 |
| Waste Quantity: | 330 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20140619 |
| Creation Date: | 3/27/2015 22:15:17 |
| Receipt Date: | 20140625 |
| Manifest ID: | 002305563GBF |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |
| Trans 2 EPA ID: | CAD980585293 |
| Trans 2 Name: | INDUSTRIAL WASTE UTILIZATION INC |
| TSDF EPA ID: | AZR000501510 |
| Trans Name: | AA SYDCOL LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 134 - Aqueous solution with <10% total organic residues |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 2.772 |
| Waste Quantity: | 660 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |

**HOOSIER PLASTIC FABRICATION (Continued)** **S113040360**

| | |
|---|---|
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20140311 |
| Creation Date: | 8/17/2014 22:15:12 |
| Receipt Date: | 20140330 |
| Manifest ID: | 002305864GBF |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |
| Trans 2 EPA ID: | CAD980585293 |
| Trans 2 Name: | INDUSTRIAL WASTE UTILIZATION INC |
| TSDF EPA ID: | AZR000501510 |
| Trans Name: | AA SYDCOL LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 134 - Aqueous solution with <10% total organic residues |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 2.772 |
| Waste Quantity: | 660 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2015 |
| Gen EPA ID: | CAL000046313 |
| | |
| Shipment Date: | 20150922 |
| Creation Date: | 5/4/2016 22:15:08 |
| Receipt Date: | 20151012 |
| Manifest ID: | 002736535GBF |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |
| Trans 2 EPA ID: | CAD980585293 |
| Trans 2 Name: | INDUSTRIAL WASTE UTILIZATION INC |
| TSDF EPA ID: | AZR000501510 |
| Trans Name: | AA SYDCOL LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 134 - Aqueous solution with <10% total organic residues |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 1.386 |
| Waste Quantity: | 330 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

**HOOSIER PLASTIC FABRICATION (Continued)** **S113040360**

| | |
|---|---|
| Shipment Date: | 20150824 |
| Creation Date: | 2/9/2016 22:16:04 |
| Receipt Date: | 20150831 |
| Manifest ID: | 002736402GBF |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |
| Trans 2 EPA ID: | CAD980585293 |
| Trans 2 Name: | INDUSTRIAL WASTE UTILIZATION INC |
| TSDF EPA ID: | AZR000501510 |
| Trans Name: | AA SYDCOL LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 134 - Aqueous solution with <10% total organic residues |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 1.386 |
| Waste Quantity: | 330 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20150625 |
| Creation Date: | 2/4/2016 22:15:46 |
| Receipt Date: | 20150716 |
| Manifest ID: | 002736821GBF |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |
| Trans 2 EPA ID: | CAD980585293 |
| Trans 2 Name: | INDUSTRIAL WASTE UTILIZATION INC |
| TSDF EPA ID: | AZR000501510 |
| Trans Name: | AA SYDCOL LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 134 - Aqueous solution with <10% total organic residues |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 1.386 |
| Waste Quantity: | 330 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20150528 |
| Creation Date: | 11/9/2015 22:15:07 |
| Receipt Date: | 20150609 |
| Manifest ID: | 002736728GBF |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |
| Trans 2 EPA ID: | CAD980585293 |

**HOOSIER PLASTIC FABRICATION (Continued)** **S113040360**

| | |
|---|---|
| Trans 2 Name: | INDUSTRIAL WASTE UTILIZATION INC |
| TSDF EPA ID: | AZR000501510 |
| Trans Name: | AA SYDCOL LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 134 - Aqueous solution with <10% total organic residues |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 1.386 |
| Waste Quantity: | 330 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20150423 |
| Creation Date: | 11/5/2015 22:15:08 |
| Receipt Date: | 20150514 |
| Manifest ID: | 002506444GBF |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |
| Trans 2 EPA ID: | CAD980585293 |
| Trans 2 Name: | INDUSTRIAL WASTE UTILIZATION INC |
| TSDF EPA ID: | AZR000501510 |
| Trans Name: | AA SYDCOL LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 134 - Aqueous solution with <10% total organic residues |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 1.386 |
| Waste Quantity: | 330 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20150303 |
| Creation Date: | 8/10/2015 22:15:09 |
| Receipt Date: | 20150311 |
| Manifest ID: | 002506269GBF |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |
| Trans 2 EPA ID: | CAD980585293 |
| Trans 2 Name: | INDUSTRIAL WASTE UTILIZATION INC |
| TSDF EPA ID: | AZR000501510 |
| Trans Name: | AA SYDCOL LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 134 - Aqueous solution with <10% total organic residues |
| RCRA Code: | Not reported |

**HOOSIER PLASTIC FABRICATION (Continued)** **S113040360**

| | |
|---|---|
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 1.386 |
| Waste Quantity: | 330 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20150209 |
| Creation Date: | 11/9/2015 22:15:17 |
| Receipt Date: | 20150218 |
| Manifest ID: | 002506196GBF |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |
| Trans 2 EPA ID: | CAD980585293 |
| Trans 2 Name: | INDUSTRIAL WASTE UTILIZATION INC |
| TSDF EPA ID: | AZR000501510 |
| Trans Name: | AA SYDCOL LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 134 - Aqueous solution with <10% total organic residues |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 2.772 |
| Waste Quantity: | 660 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2008 |
| Gen EPA ID: | CAL000046313 |
| | |
| Shipment Date: | 20080626 |
| Creation Date: | 9/10/2008 18:30:08 |
| Receipt Date: | 20080709 |
| Manifest ID: | 000379948GBF |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD981696420 |
| Trans Name: | EVERGREEN ENVIRONMENTAL SERVICES |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 223 - Unspecified oil-containing waste |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 1.14675 |

**HOOSIER PLASTIC FABRICATION (Continued)** **S113040360**

| | |
|---|---|
| Waste Quantity: | 275 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20080611 |
| Creation Date: | 8/11/2008 18:30:08 |
| Receipt Date: | 20080619 |
| Manifest ID: | 000379949GBF |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD981696420 |
| Trans Name: | EVERGREEN ENVIRONMENTAL SERVICES |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | - Not reported |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | Not reported |
| Waste Quantity: | Not reported |
| Quantity Unit: | Not reported |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20080611 |
| Creation Date: | 8/11/2008 18:30:08 |
| Receipt Date: | 20080619 |
| Manifest ID: | 000379949GBF |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD981696420 |
| Trans Name: | EVERGREEN ENVIRONMENTAL SERVICES |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 223 - Unspecified oil-containing waste |
| RCRA Code: | Not reported |
| Meth Code: | - Not reported |
| Quantity Tons: | 1.14675 |
| Waste Quantity: | 275 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

**HOOSIER PLASTIC FABRICATION (Continued)** **S113040360**

| | |
|---|---|
| Shipment Date: | 20080528 |
| Creation Date: | 8/11/2008 18:30:08 |
| Receipt Date: | 20080612 |
| Manifest ID: | 000379304GBF |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD981696420 |
| Trans Name: | EVERGREEN ENVIRONMENTAL SERVICES |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 223 - Unspecified oil-containing waste |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 1.14675 |
| Waste Quantity: | 275 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20080407 |
| Creation Date: | 6/25/2008 18:30:15 |
| Receipt Date: | 20080410 |
| Manifest ID: | 000379702GBF |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD981696420 |
| Trans Name: | EVERGREEN ENVIRONMENTAL SERVICES |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 223 - Unspecified oil-containing waste |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 1.14675 |
| Waste Quantity: | 275 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20080407 |
| Creation Date: | 6/25/2008 18:30:15 |
| Receipt Date: | 20080410 |
| Manifest ID: | 000379702GBF |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |
| Trans 2 EPA ID: | Not reported |

**HOOSIER PLASTIC FABRICATION (Continued)** **S113040360**

| | |
|---|---|
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD981696420 |
| Trans Name: | EVERGREEN ENVIRONMENTAL SERVICES |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 223 - Unspecified oil-containing waste |
| RCRA Code: | Not reported |
| Meth Code: | - Not reported |
| Quantity Tons: | Not reported |
| Waste Quantity: | Not reported |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2002 |
| Gen EPA ID: | CAL000046313 |
| | |
| Shipment Date: | 20020919 |
| Creation Date: | 2/11/2003 18:31:24 |
| Receipt Date: | 20020919 |
| Manifest ID: | 21438243 |
| Trans EPA ID: | CAL000113451 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD982444482 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 223 - Unspecified oil-containing waste |
| RCRA Code: | Not reported |
| Meth Code: | H01 - Transfer Station |
| Quantity Tons: | 0.6255 |
| Waste Quantity: | 150 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20020222 |
| Creation Date: | 7/25/2002 18:31:24 |
| Receipt Date: | 20020305 |
| Manifest ID: | 21434250 |
| Trans EPA ID: | CAL000113451 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | AZD009015389 |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | AZD009015389 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |

**HOOSIER PLASTIC FABRICATION (Continued)** **S113040360**

| | |
|---|---|
| Waste Code Description: | 223 - Unspecified oil-containing waste |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 1.4595 |
| Waste Quantity: | 350 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20020222 |
| Creation Date: | 7/25/2002 18:31:24 |
| Receipt Date: | 20020305 |
| Manifest ID: | 21434250 |
| Trans EPA ID: | CAL000113451 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | AZD009015389 |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | AZD009015389 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 223 - Unspecified oil-containing waste |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 1.4595 |
| Waste Quantity: | 350 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2007 |
| Gen EPA ID: | CAL000046313 |
| | |
| Shipment Date: | 20071217 |
| Creation Date: | 3/6/2008 18:30:26 |
| Receipt Date: | 20071218 |
| Manifest ID: | 000379305GBF |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD981696420 |
| Trans Name: | EVERGREEN ENVIRONMENTAL SERVICES |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 223 - Unspecified oil-containing waste |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 5.421 |

**HOOSIER PLASTIC FABRICATION (Continued)** **S113040360**

| | |
|---|---|
| Waste Quantity: | 1300 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20071217 |
| Creation Date: | 3/6/2008 18:30:26 |
| Receipt Date: | 20071218 |
| Manifest ID: | 000379305GBF |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD981696420 |
| Trans Name: | EVERGREEN ENVIRONMENTAL SERVICES |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 223 - Unspecified oil-containing waste |
| RCRA Code: | Not reported |
| Meth Code: | - Not reported |
| Quantity Tons: | 0.52125 |
| Waste Quantity: | 125 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20070809 |
| Creation Date: | 11/6/2007 18:30:15 |
| Receipt Date: | 20070827 |
| Manifest ID: | 000196185GBF |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD981696420 |
| Trans Name: | EVERGREEN ENVIRONMENTAL SERVICES |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 223 - Unspecified oil-containing waste |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 1.56375 |
| Waste Quantity: | 375 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

**HOOSIER PLASTIC FABRICATION (Continued)** **S113040360**

| | |
|---|---|
| Shipment Date: | 20070226 |
| Creation Date: | 8/11/2007 18:30:05 |
| Receipt Date: | 20070309 |
| Manifest ID: | 000192943GBF |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD981696420 |
| Trans Name: | EVERGREEN ENVIRONMENTAL SERVICES |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 223 - Unspecified oil-containing waste |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 1.0425 |
| Waste Quantity: | 250 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2006 |
| Gen EPA ID: | CAL000046313 |
| Shipment Date: | 20061211 |
| Creation Date: | 4/19/2007 18:31:30 |
| Receipt Date: | 20061213 |
| Manifest ID: | 000166883GBF |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD981696420 |
| Trans Name: | EVERGREEN ENVIRONMENTAL SERVICES |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 223 - Unspecified oil-containing waste |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 1.0425 |
| Waste Quantity: | 250 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| Shipment Date: | 20061108 |
| Creation Date: | 3/30/2007 13:32:48 |
| Receipt Date: | 20061110 |

**HOOSIER PLASTIC FABRICATION (Continued)** **S113040360**

| | |
|---|---|
| Manifest ID: | 000056690GBF |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD981696420 |
| Trans Name: | EVERGREEN ENVIRONMENTAL SERVICES |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 223 - Unspecified oil-containing waste |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 1.0425 |
| Waste Quantity: | 250 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20060630 |
| Creation Date: | 9/17/2006 18:31:37 |
| Receipt Date: | 20060713 |
| Manifest ID: | 24939280 |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD981696420 |
| Trans Name: | EVERGREEN ENVIRONMENTAL SERVICES |
| TSDF Alt EPA ID: | CAD981696420 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 223 - Unspecified oil-containing waste |
| RCRA Code: | Not reported |
| Meth Code: | H01 - Transfer Station |
| Quantity Tons: | 0.3336 |
| Waste Quantity: | 80 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20060630 |
| Creation Date: | 9/17/2006 18:31:37 |
| Receipt Date: | 20060713 |
| Manifest ID: | 24939280 |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD981696420 |
| Trans Name: | EVERGREEN ENVIRONMENTAL SERVICES |
| TSDF Alt EPA ID: | CAD981696420 |

**HOOSIER PLASTIC FABRICATION (Continued)** **S113040360**

| | |
|---|---|
| TSDF Alt Name: | Not reported |
| Waste Code Description: | - Not reported |
| RCRA Code: | Not reported |
| Meth Code: | H01 - Transfer Station |
| Quantity Tons: | 0.834 |
| Waste Quantity: | 200 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20060310 |
| Creation Date: | 12/21/2006 18:30:38 |
| Receipt Date: | 20060330 |
| Manifest ID: | 24804112 |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD981696420 |
| Trans Name: | EVERGREEN ENVIRONMENTAL SERVICES |
| TSDF Alt EPA ID: | CAD981696420 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | - Not reported |
| RCRA Code: | Not reported |
| Meth Code: | H01 - Transfer Station |
| Quantity Tons: | 0.10425 |
| Waste Quantity: | 25 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20060310 |
| Creation Date: | 12/21/2006 18:30:38 |
| Receipt Date: | 20060330 |
| Manifest ID: | 24804112 |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD981696420 |
| Trans Name: | EVERGREEN ENVIRONMENTAL SERVICES |
| TSDF Alt EPA ID: | CAD981696420 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 223 - Unspecified oil-containing waste |
| RCRA Code: | Not reported |
| Meth Code: | H01 - Transfer Station |
| Quantity Tons: | 1.8348 |
| Waste Quantity: | 440 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |

**HOOSIER PLASTIC FABRICATION (Continued)** **S113040360**

Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:
Year: 2005
Gen EPA ID: CAL000046313

Shipment Date: 20050826
Creation Date: 8/23/2006 18:32:59
Receipt Date: 20050902
Manifest ID: 24577858
Trans EPA ID: CAD983649880
Trans Name: GENERAL ENVIRONMENTAL MGMT INC
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAT080033681
Trans Name: DK ENVIRONMENTAL
TSDF Alt EPA ID: CAT080033681
TSDF Alt Name: Not reported
Waste Code Description: 223 - Unspecified oil-containing waste
RCRA Code: Not reported
Meth Code: R01 - Recycler
Quantity Tons: 2.2935
Waste Quantity: 550
Quantity Unit: G
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:
Year: 2012
Gen EPA ID: CAL000046313

Shipment Date: 20120718
Creation Date: 10/15/2012 22:15:30
Receipt Date: 20120725
Manifest ID: 001875764GBF
Trans EPA ID: CAL000224539
Trans Name: FRS ENVIRONMENTAL INC
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAD981696420
Trans Name: EVERGREEN ENVIRONMENTAL SERVICES
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 223 - Unspecified oil-containing waste
RCRA Code: Not reported
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons: 2.7522
Waste Quantity: 660
Quantity Unit: G
Additional Code 1: Not reported

**HOOSIER PLASTIC FABRICATION (Continued)** **S113040360**

| | |
|---|---|
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20120207 |
| Creation Date: | 3/28/2012 20:30:25 |
| Receipt Date: | 20120210 |
| Manifest ID: | 001619234GBF |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |
| Trans 2 EPA ID: | CAD982413262 |
| Trans 2 Name: | EVERGREEN ENVIRONMENTAL SERVICES |
| TSDF EPA ID: | CAD981696420 |
| Trans Name: | EVERGREEN ENVIRONMENTAL SERVICES |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | - Not reported |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | Not reported |
| Waste Quantity: | Not reported |
| Quantity Unit: | Not reported |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20120207 |
| Creation Date: | 3/28/2012 20:30:25 |
| Receipt Date: | 20120210 |
| Manifest ID: | 001619234GBF |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |
| Trans 2 EPA ID: | CAD982413262 |
| Trans 2 Name: | EVERGREEN ENVIRONMENTAL SERVICES |
| TSDF EPA ID: | CAD981696420 |
| Trans Name: | EVERGREEN ENVIRONMENTAL SERVICES |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 223 - Unspecified oil-containing waste |
| RCRA Code: | Not reported |
| Meth Code: | - Not reported |
| Quantity Tons: | 0.97995 |
| Waste Quantity: | 235 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20120202 |
| Creation Date: | 3/28/2012 20:30:25 |
| Receipt Date: | 20120210 |

**HOOSIER PLASTIC FABRICATION (Continued)** **S113040360**

| | |
|---|---|
| Manifest ID: | 001619229GBF |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |
| Trans 2 EPA ID: | CAD982413262 |
| Trans 2 Name: | EVERGREEN ENVIRONMENTAL SERVICES |
| TSDF EPA ID: | CAD981696420 |
| Trans Name: | EVERGREEN ENVIRONMENTAL SERVICES |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | - Not reported |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | Not reported |
| Waste Quantity: | Not reported |
| Quantity Unit: | Not reported |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20120202 |
| Creation Date: | 3/28/2012 20:30:25 |
| Receipt Date: | 20120210 |
| Manifest ID: | 001619229GBF |
| Trans EPA ID: | CAL000224539 |
| Trans Name: | FRS ENVIRONMENTAL INC |
| Trans 2 EPA ID: | CAD982413262 |
| Trans 2 Name: | EVERGREEN ENVIRONMENTAL SERVICES |
| TSDF EPA ID: | CAD981696420 |
| Trans Name: | EVERGREEN ENVIRONMENTAL SERVICES |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 223 - Unspecified oil-containing waste |
| RCRA Code: | Not reported |
| Meth Code: | - Not reported |
| Quantity Tons: | 2.7522 |
| Waste Quantity: | 660 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2003 |
| Gen EPA ID: | CAL000046313 |

| | |
|---|---|
| Shipment Date: | 20030701 |
| Creation Date: | 7/23/2004 13:22:40 |
| Receipt Date: | 20030710 |
| Manifest ID: | 22685590 |
| Trans EPA ID: | CAL931024038 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |

**HOOSIER PLASTIC FABRICATION (Continued)** **S113040360**

| | |
|---|---|
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080033681 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAT080033681 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 223 - Unspecified oil-containing waste |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.4587 |
| Waste Quantity: | 110 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20030701 |
| Creation Date: | 7/23/2004 13:22:40 |
| Receipt Date: | 20030710 |
| Manifest ID: | 22685590 |
| Trans EPA ID: | CAL931024038 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080033681 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAT080033681 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 223 - Unspecified oil-containing waste |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.22935 |
| Waste Quantity: | 55 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

NPDES:

| | |
|---|---|
| Name: | HOOSIER INC |
| Address: | 1152 CALIFORNIA AVE |
| City,State,Zip: | CORONA, CA 92881 |
| Facility Status: | Not reported |
| NPDES Number: | Not reported |
| Region: | Not reported |
| Agency Number: | Not reported |
| Regulatory Measure ID: | Not reported |
| Place ID: | Not reported |
| Order Number: | Not reported |
| WDID: | 8 33NEC005040 |
| Regulatory Measure Type: | Industrial |
| Program Type: | Not reported |
| Adoption Date Of Regulatory Measure: | Not reported |
| Effective Date Of Regulatory Measure: | Not reported |

**HOOSIER PLASTIC FABRICATION (Continued)** **S113040360**

| | |
|---|---|
| Termination Date Of Regulatory Measure: | Not reported |
| Expiration Date Of Regulatory Measure: | Not reported |
| Discharge Address: | Not reported |
| Discharge Name: | Not reported |
| Discharge City: | Not reported |
| Discharge State: | Not reported |
| Discharge Zip: | Not reported |
| Status: | Active |
| Status Date: | 03/27/2019 |
| Operator Name: | Hoosier Plastic Fabrication |
| Operator Address: | 1152 California Ave |
| Operator City: | Corona |
| Operator State: | California |
| Operator Zip: | 92881 |

| | |
|---|---|
| Name: | HOOSIER INC |
| Address: | 1152 CALIFORNIA AVE |
| City,State,Zip: | CORONA, CA 92881 |
| Facility Status: | Active |
| NPDES Number: | CAS000001 |
| Region: | 8 |
| Agency Number: | 0 |
| Regulatory Measure ID: | 507299 |
| Place ID: | Not reported |
| Order Number: | 97-03-DWQ |
| WDID: | 8 33NEC005040 |
| Regulatory Measure Type: | Enrollee |
| Program Type: | Industrial |
| Adoption Date Of Regulatory Measure: | Not reported |
| Effective Date Of Regulatory Measure: | 03/27/2019 |
| Termination Date Of Regulatory Measure: | Not reported |
| Expiration Date Of Regulatory Measure: | Not reported |
| Discharge Address: | 1152 California Ave |
| Discharge Name: | Hoosier Plastic Fabrication |
| Discharge City: | Corona |
| Discharge State: | California |
| Discharge Zip: | 92881 |
| Status: | Not reported |
| Status Date: | Not reported |
| Operator Name: | Not reported |
| Operator Address: | Not reported |
| Operator City: | Not reported |
| Operator State: | Not reported |
| Operator Zip: | Not reported |

CIWQS:

| | |
|---|---|
| Name: | HOOSIER INC |
| Address: | 1152 CALIFORNIA AVE |
| City,State,Zip: | CORONA, CA 92881 |
| Agency: | Hoosier Plastic Fabrication |
| Agency Address: | 1152 California Ave, Corona, CA 92881 |
| Place/Project Type: | Industrial - Plastics Products, NEC |
| SIC/NAICS: | 3089 |
| Region: | 8 |
| Program: | INDSTW |
| Regulatory Measure Status: | Active |
| Regulatory Measure Type: | Storm water industrial |

**HOOSIER PLASTIC FABRICATION (Continued)** **S113040360**

| | |
|---|---|
| Order Number: | 2014-0057-DWQ |
| WDID: | 8 33NEC005040 |
| NPDES Number: | CAS000001 |
| Adoption Date: | Not reported |
| Effective Date: | 03/27/2019 |
| Termination Date: | Not reported |
| Expiration/Review Date: | Not reported |
| Design Flow: | Not reported |
| Major/Minor: | Not reported |
| Complexity: | Not reported |
| TTWQ: | Not reported |
| Enforcement Actions within 5 years: | 0 |
| Violations within 5 years: | 0 |
| Latitude: | 33.86111 |
| Longitude: | -117.54171 |

CERS:

| | |
|---|---|
| Name: | HOOSIER PLASTIC FABRICATION |
| Address: | 1152 CALIFORNIA AVE |
| City,State,Zip: | CORONA, CA 92881 |
| Site ID: | 36983 |
| CERS ID: | 10499644 |
| CERS Description: | Chemical Storage Facilities |

Violations:

| | |
|---|---|
| Site ID: | 36983 |
| Site Name: | Hoosier Plastic Fabrication |
| Violation Date: | 01-18-2018 |
| Citation: | Un-Specified |
| Violation Description: | Business Plan Program - Operations/Maintenance - General Local Ordinance |
| Violation Notes: | Returned to compliance on 02/02/2018. 104A- NFPA placard does not accurately reflect the hazardous materials. Use these ratings: Blue=3, Red=1, Yellow=0, White= SA. Add sticker placard on interior doors that lead to production area. |
| Violation Division: | Corona Fire Department |
| Violation Program: | HMRRP |
| Violation Source: | CERS, |

| | |
|---|---|
| Site ID: | 36983 |
| Site Name: | Hoosier Plastic Fabrication |
| Violation Date: | 06-03-2020 |
| Citation: | HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1) |
| Violation Description: | Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date. |
| Violation Notes: | Returned to compliance on 06/04/2020. OBSERVATION: Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date. CORRECTIVE ACTION: Update and submit a complete hazardous materials business plan into CERS for review and approval BY 7/03/20. |
| Violation Division: | Corona Fire Department |
| Violation Program: | HMRRP |
| Violation Source: | CERS, |

| | |
|---|---|
| Site ID: | 36983 |

**HOOSIER PLASTIC FABRICATION (Continued)** **S113040360**

| | |
|---|---|
| Site Name: | Hoosier Plastic Fabrication |
| Violation Date: | 01-18-2018 |
| Citation: | HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1) |
| Violation Description: | Failure to complete and electronically submit a site map with all required content. |
| Violation Notes: | Returned to compliance on 05/08/2020. Site map is incomplete. Add the location of liquid nitrogen and re-submit on CERS. - corrected on submittal dated 1/23/2018 |
| Violation Division: | Corona Fire Department |
| Violation Program: | HMRRP |
| Violation Source: | CERS, |
| | |
| Site ID: | 36983 |
| Site Name: | Hoosier Plastic Fabrication |
| Violation Date: | 06-03-2020 |
| Citation: | HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1) |
| Violation Description: | Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities. |
| Violation Notes: | Returned to compliance on 06/04/2020. OBSERVATION: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities. CORRECTIVE ACTION: Update Hazardous materials inventories on site and submit into CERS for review and approval by 7/03/20. |
| Violation Division: | Corona Fire Department |
| Violation Program: | HMRRP |
| Violation Source: | CERS, |
| | |
| Site ID: | 36983 |
| Site Name: | Hoosier Plastic Fabrication |
| Violation Date: | 01-30-2015 |
| Citation: | 19 CCR 4 2729.2(a)(3) - California Code of Regulations, Title 19, Chapter 4, Section(s) 2729.2(a)(3) |
| Violation Description: | Failure to complete and/or submit an annotated site map if required by CUPA. |
| Violation Notes: | Returned to compliance on 02/25/2015. Add storm & sewer drains, emergency shut offs, staging area, oil locations and spill kit. |
| Violation Division: | Corona Fire Department |
| Violation Program: | HMRRP |
| Violation Source: | CERS, |
| | |
| Site ID: | 36983 |
| Site Name: | Hoosier Plastic Fabrication |
| Violation Date: | 06-03-2020 |
| Citation: | HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1) |
| Violation Description: | Failure to complete and electronically submit a site map with all required content. |
| Violation Notes: | Returned to compliance on 06/04/2020. OBSERVATION: Failure to complete and electronically submit a site map with all required content. CORRECTIVE ACTION: Update your site map and submit into CERS, ensure all required elements are included: North Orientation, Loading areas, Internal Roads, Adjacent streets, Storm and sewer drains, Access and exit points, Emergency shutoffs, Evacuation staging areas, Hazardous Materials handling and storage locations and, Emergency Response |

**HOOSIER PLASTIC FABRICATION (Continued)** **S113040360**

Equipment (hydrants, riser, alarm panel, extinguishers, spill kit, etc.). All text must be oriented in the same direction and a legend is required if using symbols. If hand drawn use a straight edge. Submit by 7/03/20.
Violation Division: Corona Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 36983
Site Name: Hoosier Plastic Fabrication
Violation Date: 01-30-2015
Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description: Business Plan Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 05/01/2015. Relocate NFPA 704 sign to front of building.
Violation Division: Corona Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 36983
Site Name: Hoosier Plastic Fabrication
Violation Date: 06-03-2020
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to establish and electronically submit an adequate emergency response plan and procedures for a release or threatened release of a hazardous material.
Violation Notes: Returned to compliance on 06/04/2020. OBSERVATION: Failure to establish and electronically submit an adequate emergency response plan and procedures for a release or threatened release of a hazardous material. CORRECTIVE ACTION: Update your emergency response / contingency plan and submit into CERS for review and approval by 7/03/20
Violation Division: Corona Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Evaluation:
Eval General Type: Other/Unknown
Eval Date: 06-03-2020
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: E Inspect
Eval Division: Corona Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-18-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Corona Fire Department
Eval Program: HMRRP
Eval Source: CERS,

**HOOSIER PLASTIC FABRICATION (Continued)** **S113040360**

| | |
|---|---|
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 01-30-2015 |
| Violations Found: | Yes |
| Eval Type: | Routine done by local agency |
| Eval Notes: | Add storm & sewer drains, emergency shut offs, staging area, oil locations and spill kit. Relocate NFPA 704 sign to front of building. |
| Eval Division: | Corona Fire Department |
| Eval Program: | HMRRP |
| Eval Source: | CERS, |

Enforcement Action:

| | |
|---|---|
| Site ID: | 36983 |
| Site Name: | Hoosier Plastic Fabrication |
| Site Address: | 1152 CALIFORNIA AVE |
| Site City: | CORONA |
| Site Zip: | 92881 |
| Enf Action Date: | 01-30-2015 |
| Enf Action Type: | Notice of Violation (Unified Program) |
| Enf Action Description: | Notice of Violation Issued by the Inspector at the Time of Inspection |
| Enf Action Notes: | Add storm & sewer drains, emergency shut offs, staging area, oil locations and spill kit. . |
| Enf Action Division: | Corona Fire Department |
| Enf Action Program: | HMRRP |
| Enf Action Source: | CERS, |

| | |
|---|---|
| Site ID: | 36983 |
| Site Name: | Hoosier Plastic Fabrication |
| Site Address: | 1152 CALIFORNIA AVE |
| Site City: | CORONA |
| Site Zip: | 92881 |
| Enf Action Date: | 01-30-2015 |
| Enf Action Type: | Notice of Violation (Unified Program) |
| Enf Action Description: | Notice of Violation Issued by the Inspector at the Time of Inspection |
| Enf Action Notes: | Relocate NFPA 704 sign to front of building. |
| Enf Action Division: | Corona Fire Department |
| Enf Action Program: | HMRRP |
| Enf Action Source: | CERS, |

Coordinates:

| | |
|---|---|
| Site ID: | 36983 |
| Facility Name: | Hoosier Plastic Fabrication |
| Env Int Type Code: | HWG |
| Program ID: | 10499644 |
| Coord Name: | Not reported |
| Ref Point Type Desc: | Center of a facility or station., |
| Latitude: | 33.861100 |
| Longitude: | -117.541670 |

Affiliation:

| | |
|---|---|
| Affiliation Type Desc: | CUPA District |
| Entity Name: | Riverside Cnty Env Health |
| Entity Title: | Not reported |
| Affiliation Address: | 4065 County Circle Drive, Room 104 |
| Affiliation City: | Riverside |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |

**HOOSIER PLASTIC FABRICATION (Continued)** **S113040360**

| | |
|---|---|
| Affiliation Zip: | 92503 |
| Affiliation Phone: | (951) 358-5055, |
| | |
| Affiliation Type Desc: | Environmental Contact |
| Entity Name: | Joe Kimbrel |
| Entity Title: | Not reported |
| Affiliation Address: | PO Box 78926 |
| Affiliation City: | Corona |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 92877 |
| Affiliation Phone: | , |
| | |
| Affiliation Type Desc: | Facility Mailing Address |
| Entity Name: | Mailing Address |
| Entity Title: | Not reported |
| Affiliation Address: | PO Box 78926 |
| Affiliation City: | Corona |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 92877 |
| Affiliation Phone: | , |
| | |
| Affiliation Type Desc: | Identification Signer |
| Entity Name: | Joe Kimbrel |
| Entity Title: | Facilities and Safety Manager |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | , |
| | |
| Affiliation Type Desc: | Parent Corporation |
| Entity Name: | Hoosier Plastc Fabrication |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | , |
| | |
| Affiliation Type Desc: | Document Preparer |
| Entity Name: | Joe Kimbrel |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | , |
| | |
| Affiliation Type Desc: | Legal Owner |
| Entity Name: | Rob Sims |
| Entity Title: | Not reported |
| Affiliation Address: | 1152 California Ave |

**HOOSIER PLASTIC FABRICATION (Continued)** **S113040360**

Affiliation City: Corona
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 92881
Affiliation Phone: (951) 272-3070,

Affiliation Type Desc: Operator
Entity Name: Rob Sims
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (951) 272-3070,

Name: HOOSIER INC
Address: 1152 CALIFORNIA AVE
City,State,Zip: CORONA, CA 92881
Site ID: 533951
CERS ID: 871505
CERS Description: Industrial Facility Storm Water

Affiliation:
Affiliation Type Desc: Owner/Operator
Entity Name: Hoosier Plastic Fabrication
Entity Title: Operator
Affiliation Address: 1152 California Ave
Affiliation City: Corona
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92881
Affiliation Phone: ,

HWTS:
Name: HOOSIER INC
Address: 1152 CALIFORNIA AVE
Address 2: Not reported
City,State,Zip: CORONA, CA 92881
EPA ID: CAL000046313
Inactive Date: Not reported
Create Date: 02/15/1991
Last Act Date: Not reported
Mailing Name: Not reported
Mailing Address: PO BOX 78926
Mailing Address 2: Not reported
Mailing City,State,Zip: CORONA, CA 928770000
Owner Name: HOOSIER INC
Owner Address: 15300 GLEN RIDGE DR
Owner Address 2: Not reported
Owner City,State,Zip: CHINO HILLS, CA 917094224
Contact Name: JOE KIMBREL
Contact Address: 1152 CALIFORNIA AVE
Contact Address 2: Not reported
City,State,Zip: CORONA, CA 92880

**HOOSIER PLASTIC FABRICATION (Continued)** **S113040360**

| | |
|---|---|
| Facility Status: | Active |
| Facility Type: | PERMANENT |
| Category: | STATE |
| Latitude: | 33.861621 |
| Longitude: | -117.541653 |

NAICS:

| | |
|---|---|
| EPA ID: | CAL000046313 |
| Create Date: | 2008-03-20 15:51:28.017 |
| NAICS Code: | 333512 |
| NAICS Description: | Machine Tool (Metal Cutting Types) Manufacturing |
| Issued EPA ID Date: | 1991-02-15 00:00:00 |
| Inactive Date: | Not reported |
| Facility Name: | HOOSIER INC |
| Facility Address: | 1152 CALIFORNIA AVE |
| Facility Address 2: | Not reported |
| Facility City: | CORONA |
| Facility County: | Not reported |
| Facility State: | CA |
| Facility Zip: | 928813324 |

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**I43** **HOOSIER INC** **RCRA NonGen / NLR** **1024788533**
**ENE** **1152 CALIFORNIA AVE** **CAL000046313**
**1/8-1/4** **CORONA, CA 92881**
**0.212 mi.**
**1121 ft.** **Site 7 of 7 in cluster I**

**Relative:** **Lower**
**Actual:** **735 ft.**

RCRA NonGen / NLR:

| | | |
|---|---|---|
| Date Form Received by Agency: | | 19910215 |
| Handler Name: | HOOSIER INC | |
| Handler Address: | | 1152 CALIFORNIA AVE |
| Handler City,State,Zip: | | CORONA, CA 92881-3324 |
| EPA ID: | | CAL000046313 |
| Contact Name: | | JOE KIMBREL |
| Contact Address: | | 1152 CALIFORNIA AVE |
| Contact City,State,Zip: | | CORONA, CA 92880 |
| Contact Telephone: | | 951-272-3070 |
| Contact Fax: | | 951-272-8090 |
| Contact Email: | | JKIMBREL@HOOSIERINC.COM |
| Contact Title: | | Not reported |
| EPA Region: | | 09 |
| Land Type: | | Not reported |
| Federal Waste Generator Description: | | Not a generator, verified |
| Non-Notifier: | | Not reported |
| Biennial Report Cycle: | | Not reported |
| Accessibility: | | Not reported |
| Active Site Indicator: | | Handler Activities |
| State District Owner: | | Not reported |
| State District: | | Not reported |
| Mailing Address: | | PO BOX 78926 |
| Mailing City,State,Zip: | | CORONA, CA 92877-0000 |
| Owner Name: | | HOOSIER INC |
| Owner Type: | | Other |
| Operator Name: | | JOE KIMBREL |
| Operator Type: | | Other |
| Short-Term Generator Activity: | | No |
| Importer Activity: | | No |

**HOOSIER INC (Continued)** **1024788533**

| | |
|---|---|
| Mixed Waste Generator: | No |
| Transporter Activity: | No |
| Transfer Facility Activity: | No |
| Recycler Activity with Storage: | No |
| Small Quantity On-Site Burner Exemption: | No |
| Smelting Melting and Refining Furnace Exemption: | No |
| Underground Injection Control: | No |
| Off-Site Waste Receipt: | No |
| Universal Waste Indicator: | Yes |
| Universal Waste Destination Facility: | Yes |
| Federal Universal Waste: | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site State-Reg Handler: | --- |
| Federal Facility Indicator: | Not reported |
| Hazardous Secondary Material Indicator: | N |
| Sub-Part K Indicator: | Not reported |
| Commercial TSD Indicator: | No |
| Treatment Storage and Disposal Type: | Not reported |
| 2018 GPRA Permit Baseline: | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | Not on the Baseline |
| Permit Renewals Workload Universe: | Not reported |
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 20180905 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | No |
| Manifest Broker: | No |
| Sub-Part P Indicator: | No |

Handler - Owner Operator:
Owner/Operator Indicator: Operator

**HOOSIER INC (Continued)** **1024788533**

| | |
|---|---|
| Owner/Operator Name: | JOE KIMBREL |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 1152 CALIFORNIA AVE |
| Owner/Operator City,State,Zip: | CORONA, CA 92880 |
| Owner/Operator Telephone: | 951-272-3070 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

| | |
|---|---|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | HOOSIER INC |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 15300 GLEN RIDGE DR |
| Owner/Operator City,State,Zip: | CHINO HILLS, CA 91709-4224 |
| Owner/Operator Telephone: | 951-272-3070 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

Historic Generators:

| | |
|---|---|
| Receive Date: | 19910215 |
| Handler Name: HOOSIER INC | |
| Federal Waste Generator Description: | Not a generator, verified |
| State District Owner: | Not reported |
| Large Quantity Handler of Universal Waste: | No |
| Recognized Trader Importer: | No |
| Recognized Trader Exporter: | No |
| Spent Lead Acid Battery Importer: | No |
| Spent Lead Acid Battery Exporter: | No |
| Current Record: | Yes |
| Non Storage Recycler Activity: | Not reported |
| Electronic Manifest Broker: | Not reported |

List of NAICS Codes and Descriptions:

| | |
|---|---|
| NAICS Code: | 333512 |
| NAICS Description: | MACHINE TOOL (METAL CUTTING TYPES) MANUFACTURING |

Facility Has Received Notices of Violations:

| | |
|---|---|
| Violations: | No Violations Found |

Evaluation Action Summary:

| | |
|---|---|
| Evaluations: | No Evaluations Found |

**J44** **CHRISTINE WERKSMAN** **RCRA NonGen / NLR** **1027087229**
**NW** **1629 CONIFER CIRCLE** **CAC003159593**
**1/8-1/4** **CORONA, CA 92879**
**0.219 mi.**
**1156 ft.** **Site 2 of 3 in cluster J**

**Relative:** **Lower**

**Actual:** **766 ft.**

RCRA NonGen / NLR:

| | | |
|---|---|---|
| Date Form Received by Agency: | | 20220201 |
| Handler Name: | CHRISTINE WERKSMAN | |
| Handler Address: | | 1629 CONIFER CIRCLE |
| Handler City,State,Zip: | | CORONA, CA 92879 |
| EPA ID: | | CAC003159593 |
| Contact Name: | | CHRISTINE WERKSMAN |
| Contact Address: | | 1629 CONIFER CIRCLE |
| Contact City,State,Zip: | | CORONA, CA 92879 |
| Contact Telephone: | | 951-656-9970 |
| Contact Fax: | | Not reported |
| Contact Email: | | AD.AQHIINC@GMAIL.COM |
| Contact Title: | | Not reported |
| EPA Region: | | 09 |
| Land Type: | | Not reported |
| Federal Waste Generator Description: | | Not a generator, verified |
| Non-Notifier: | | Not reported |
| Biennial Report Cycle: | | Not reported |
| Accessibility: | | Not reported |
| Active Site Indicator: | | Not reported |
| State District Owner: | | Not reported |
| State District: | | Not reported |
| Mailing Address: | | 1629 CONIFER CIRCLE |
| Mailing City,State,Zip: | | CORONA, CA 92879 |
| Owner Name: | | CHRISTINE WERKSMAN |
| Owner Type: | | Other |
| Operator Name: | | CHRISTINE WERKSMAN |
| Operator Type: | | Other |
| Short-Term Generator Activity: | | No |
| Importer Activity: | | No |
| Mixed Waste Generator: | | No |
| Transporter Activity: | | No |
| Transfer Facility Activity: | | No |
| Recycler Activity with Storage: | | No |
| Small Quantity On-Site Burner Exemption: | | No |
| Smelting Melting and Refining Furnace Exemption: | | No |
| Underground Injection Control: | | No |
| Off-Site Waste Receipt: | | No |
| Universal Waste Indicator: | | No |
| Universal Waste Destination Facility: | | No |
| Federal Universal Waste: | | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | | Not reported |
| Active Site State-Reg Handler: | | --- |
| Federal Facility Indicator: | | Not reported |
| Hazardous Secondary Material Indicator: | | N |
| Sub-Part K Indicator: | | Not reported |
| Commercial TSD Indicator: | | No |
| Treatment Storage and Disposal Type: | | Not reported |
| 2018 GPRA Permit Baseline: | | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | | Not on the Baseline |
| Permit Renewals Workload Universe: | | Not reported |

**CHRISTINE WERKSMAN (Continued)** **1027087229**

| | |
|---|---|
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 20220201 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | No |
| Manifest Broker: | No |
| Sub-Part P Indicator: | No |

Handler - Owner Operator:

| | |
|---|---|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | CHRISTINE WERKSMAN |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 1629 CONIFER CIRCLE |
| Owner/Operator City,State,Zip: | CORONA, CA 92879 |
| Owner/Operator Telephone: | 951-656-9970 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

| | |
|---|---|
| Owner/Operator Indicator: | Operator |
| Owner/Operator Name: | CHRISTINE WERKSMAN |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 1629 CONIFER CIRCLE |
| Owner/Operator City,State,Zip: | CORONA, CA 92879 |
| Owner/Operator Telephone: | 951-656-9970 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

**CHRISTINE WERKSMAN (Continued)** **1027087229**

Historic Generators:
Receive Date: 20220201
Handler Name: CHRISTINE WERKSMAN
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

List of NAICS Codes and Descriptions:
NAICS Code: 56299
NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

---

**J45** **JR GIBBONS** **RCRA NonGen / NLR** **1026474113**
**NW** **1615 HEMLOCK CIRCLE** **CAC003079802**
**1/8-1/4** **CORONA, CA 92879**
**0.227 mi.**
**1201 ft.** **Site 3 of 3 in cluster J**

**Relative:** **Lower**
**Actual:** **779 ft.**

RCRA NonGen / NLR:
Date Form Received by Agency: 20200818
Handler Name: JR GIBBONS
Handler Address: 1615 HEMLOCK CIRCLE
Handler City,State,Zip: CORONA, CA 92879
EPA ID: CAC003079802
Contact Name: JR GIBBONS
Contact Address: 1615 HEMLOCK CIRCLE
Contact City,State,Zip: CORONA, CA 92879
Contact Telephone: 951-847-8282
Contact Fax: Not reported
Contact Email: KC@AQHIINC.COM
Contact Title: Not reported
EPA Region: 09
Land Type: Not reported
Federal Waste Generator Description: Not a generator, verified
Non-Notifier: Not reported
Biennial Report Cycle: Not reported
Accessibility: Not reported
Active Site Indicator: Not reported
State District Owner: Not reported
State District: Not reported
Mailing Address: 1615 HEMLOCK CIRCLE
Mailing City,State,Zip: CORONA, CA 92879
Owner Name: JR GIBBONS

**JR GIBBONS (Continued)** **1026474113**

| | |
|---|---|
| Owner Type: | Other |
| Operator Name: | JR GIBBONS |
| Operator Type: | Other |
| Short-Term Generator Activity: | No |
| Importer Activity: | No |
| Mixed Waste Generator: | No |
| Transporter Activity: | No |
| Transfer Facility Activity: | No |
| Recycler Activity with Storage: | No |
| Small Quantity On-Site Burner Exemption: | No |
| Smelting Melting and Refining Furnace Exemption: | No |
| Underground Injection Control: | No |
| Off-Site Waste Receipt: | No |
| Universal Waste Indicator: | No |
| Universal Waste Destination Facility: | No |
| Federal Universal Waste: | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site State-Reg Handler: | --- |
| Federal Facility Indicator: | Not reported |
| Hazardous Secondary Material Indicator: | N |
| Sub-Part K Indicator: | Not reported |
| Commercial TSD Indicator: | No |
| Treatment Storage and Disposal Type: | Not reported |
| 2018 GPRA Permit Baseline: | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | Not on the Baseline |
| Permit Renewals Workload Universe: | Not reported |
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 20200904 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | No |
| Manifest Broker: | No |

**JR GIBBONS (Continued)** **1026474113**

Sub-Part P Indicator: No

Handler - Owner Operator:

| | |
|---|---|
| Owner/Operator Indicator: | Operator |
| Owner/Operator Name: | JR GIBBONS |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 1615 HEMLOCK CIRCLE |
| Owner/Operator City,State,Zip: | CORONA, CA 92879 |
| Owner/Operator Telephone: | 951-847-8282 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

| | |
|---|---|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | JR GIBBONS |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 1615 HEMLOCK CIRCLE |
| Owner/Operator City,State,Zip: | CORONA, CA 92879 |
| Owner/Operator Telephone: | 951-847-8282 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

Historic Generators:

| | |
|---|---|
| Receive Date: | 20200818 |
| Handler Name: JR GIBBONS | |
| Federal Waste Generator Description: | Not a generator, verified |
| State District Owner: | Not reported |
| Large Quantity Handler of Universal Waste: | No |
| Recognized Trader Importer: | No |
| Recognized Trader Exporter: | No |
| Spent Lead Acid Battery Importer: | No |
| Spent Lead Acid Battery Exporter: | No |
| Current Record: | Yes |
| Non Storage Recycler Activity: | Not reported |
| Electronic Manifest Broker: | Not reported |

List of NAICS Codes and Descriptions:

| | |
|---|---|
| NAICS Code: | 56299 |
| NAICS Description: | ALL OTHER WASTE MANAGEMENT SERVICES |

Facility Has Received Notices of Violations:

| | |
|---|---|
| Violations: | No Violations Found |

Evaluation Action Summary:

| | |
|---|---|
| Evaluations: | No Evaluations Found |

**46**
**NNE**
**1/8-1/4**
**0.228 mi.**
**1204 ft.**

**HON SUSHI**
**1511 RIMPAU AVE # A102**
**CORONA, CA 92881**

**CERS HAZ WASTE**

**S128623497**
**N/A**

**Relative:**
**Lower**

**Actual:**
**732 ft.**

CERS HAZ WASTE:

| | |
|---|---|
| Name: | HON SUSHI |
| Address: | 1511 RIMPAU AVE # A102 |
| City,State,Zip: | CORONA, CA 92881 |
| Site ID: | 603126 |
| CERS ID: | 10890364 |
| CERS Description: | Hazardous Waste Onsite Treatment |

Affiliation:

| | |
|---|---|
| Affiliation Type Desc: | Document Preparer |
| Entity Name: | minkyung kwon |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | , |

| | |
|---|---|
| Affiliation Type Desc: | Environmental Contact |
| Entity Name: | Minkyung Kwon |
| Entity Title: | Not reported |
| Affiliation Address: | 1511 rimpau ave A102 |
| Affiliation City: | corona |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 92881 |
| Affiliation Phone: | , |

| | |
|---|---|
| Affiliation Type Desc: | Identification Signer |
| Entity Name: | MINKYUNG KWON |
| Entity Title: | OWNER |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | , |

| | |
|---|---|
| Affiliation Type Desc: | CUPA District |
| Entity Name: | Riverside Cnty Env Health |
| Entity Title: | Not reported |
| Affiliation Address: | 4065 County Circle Drive, Room 104 |
| Affiliation City: | Riverside |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 92503 |
| Affiliation Phone: | (951) 358-5055, |

| | |
|---|---|
| Affiliation Type Desc: | Legal Owner |
| Entity Name: | Minkyung Kwon |
| Entity Title: | Not reported |
| Affiliation Address: | honsushic@gmail.com |
| Affiliation City: | CORONA |

**HON SUSHI (Continued)** **S128623497**

| | |
|---|---|
| Affiliation State: | CA |
| Affiliation Country: | United States |
| Affiliation Zip: | 92881 |
| Affiliation Phone: | (951) 435-9355, |
| Affiliation Type Desc: | Facility Mailing Address |
| Entity Name: | Mailing Address |
| Entity Title: | Not reported |
| Affiliation Address: | 1511 rimpau ave |
| Affiliation City: | corona |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 92881 |
| Affiliation Phone: | , |
| Affiliation Type Desc: | Operator |
| Entity Name: | Minkyung Kwon |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | (951) 435-9355, |
| Affiliation Type Desc: | Parent Corporation |
| Entity Name: | hon sushi |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | , |

---

**L47** **BAGMASTERS** **RCRA NonGen / NLR** **1024796654**
**ENE** **1160 CALIFORNIA AVE** **CAL000178135**
**1/8-1/4** **CORONA, CA 91719**
**0.233 mi.**
**1231 ft.** **Site 1 of 2 in cluster L**

**Relative:** **Lower**
**Actual:** **732 ft.**

RCRA NonGen / NLR:

| | | |
|---|---|---|
| Date Form Received by Agency: | | 19960419 |
| Handler Name: | BAGMASTERS | |
| Handler Address: | | 1160 CALIFORNIA AVE |
| Handler City,State,Zip: | | CORONA, CA 91719-3324 |
| EPA ID: | | CAL000178135 |
| Contact Name: | | SCOTT CONK/OFFICE MGR |
| Contact Address: | | 1160 CALIFORNIA AVE |
| Contact City,State,Zip: | | CORONA, CA 92881 |
| Contact Telephone: | | 951-280-2400 |
| Contact Fax: | | 951-280-2419 |
| Contact Email: | | SCOTT@BAGMASTERS.COM |
| Contact Title: | | Not reported |
| EPA Region: | | 09 |
| Land Type: | | Not reported |
| Federal Waste Generator Description: | | Not a generator, verified |

**BAGMASTERS (Continued)** **1024796654**

| | |
|---|---|
| Non-Notifier: | Not reported |
| Biennial Report Cycle: | Not reported |
| Accessibility: | Not reported |
| Active Site Indicator: | Handler Activities |
| State District Owner: | Not reported |
| State District: | Not reported |
| Mailing Address: | 1160 CALIFORNIA AVE |
| Mailing City,State,Zip: | CORONA, CA 92881-3324 |
| Owner Name: | CTA MANUFACTURING, INC. |
| Owner Type: | Other |
| Operator Name: | SCOTT CONK/OFFICE MGR |
| Operator Type: | Other |
| Short-Term Generator Activity: | No |
| Importer Activity: | No |
| Mixed Waste Generator: | No |
| Transporter Activity: | No |
| Transfer Facility Activity: | No |
| Recycler Activity with Storage: | No |
| Small Quantity On-Site Burner Exemption: | No |
| Smelting Melting and Refining Furnace Exemption: | No |
| Underground Injection Control: | No |
| Off-Site Waste Receipt: | No |
| Universal Waste Indicator: | Yes |
| Universal Waste Destination Facility: | Yes |
| Federal Universal Waste: | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site State-Reg Handler: | --- |
| Federal Facility Indicator: | Not reported |
| Hazardous Secondary Material Indicator: | N |
| Sub-Part K Indicator: | Not reported |
| Commercial TSD Indicator: | No |
| Treatment Storage and Disposal Type: | Not reported |
| 2018 GPRA Permit Baseline: | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | Not on the Baseline |
| Permit Renewals Workload Universe: | Not reported |
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |

**BAGMASTERS (Continued)** **1024796654**

| | |
|---|---|
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 20180905 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | No |
| Manifest Broker: | No |
| Sub-Part P Indicator: | No |

Handler - Owner Operator:

| | |
|---|---|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | CTA MANUFACTURING, INC. |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 1160 CALIFORNIA AVE |
| Owner/Operator City,State,Zip: | CORONA, CA 92881-3324 |
| Owner/Operator Telephone: | 951-280-2400 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

| | |
|---|---|
| Owner/Operator Indicator: | Operator |
| Owner/Operator Name: | SCOTT CONK/OFFICE MGR |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 1160 CALIFORNIA AVE |
| Owner/Operator City,State,Zip: | CORONA, CA 92881 |
| Owner/Operator Telephone: | 951-280-2400 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

Historic Generators:

| | |
|---|---|
| Receive Date: | 19960419 |
| Handler Name: BAGMASTERS | |
| Federal Waste Generator Description: | Not a generator, verified |
| State District Owner: | Not reported |
| Large Quantity Handler of Universal Waste: | No |
| Recognized Trader Importer: | No |
| Recognized Trader Exporter: | No |
| Spent Lead Acid Battery Importer: | No |
| Spent Lead Acid Battery Exporter: | No |
| Current Record: | Yes |
| Non Storage Recycler Activity: | Not reported |
| Electronic Manifest Broker: | Not reported |

List of NAICS Codes and Descriptions:

| | |
|---|---|
| NAICS Code: | 314911 |
| NAICS Description: | TEXTILE BAG MILLS |

**BAGMASTERS (Continued)** **1024796654**

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

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**M48** **REHAB MEDICAL CENTER** **CERS HAZ WASTE** **S123533419**
**West** **730 MAGNOLIA ST** **CERS** **N/A**
**1/8-1/4** **CORONA, CA 92879**
**0.237 mi.**
**1251 ft.** **Site 1 of 7 in cluster M**

**Relative:**
**Higher**

**Actual:**
**832 ft.**

CERS HAZ WASTE:
Name: REHAB MEDICAL CENTER
Address: 730 MAGNOLIA ST
City,State,Zip: CORONA, CA 92879
Site ID: 61171
CERS ID: 10473073
CERS Description: Hazardous Waste Generator

CERS:
Name: REHAB MEDICAL CENTER
Address: 730 MAGNOLIA ST
City,State,Zip: CORONA, CA 92879
Site ID: 61171
CERS ID: 10473073
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 61171
Site Name: REHAB MEDICAL CENTER
Violation Date: 08-26-2015
Citation: 19 CCR 4 2729.2(a)(3) - California Code of Regulations, Title 19, Chapter 4, Section(s) 2729.2(a)(3)
Violation Description: Failure to complete and/or submit an annotated site map if required by CUPA.
Violation Notes: Returned to compliance on 09/03/2015. Site map-refer to Diedre's comments.
Violation Division: Corona Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 61171
Site Name: REHAB MEDICAL CENTER
Violation Date: 08-24-2018
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit the Business Activities Page and/or Business Owner Operator Identification Page.
Violation Notes: Returned to compliance on 08/04/2020. Underground tank was replaced with an Aboveground tank- change was made in CERS on submittal dated 9/6/2018.
Violation Division: Corona Fire Department
Violation Program: HMRRP
Violation Source: CERS,

**REHAB MEDICAL CENTER (Continued)** **S123533419**

| | |
|---|---|
| Site ID: | 61171 |
| Site Name: | REHAB MEDICAL CENTER |
| Violation Date: | 10-09-2015 |
| Citation: | HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple |
| Violation Description: | Business Plan Program - Administration/Documentation - General |
| Violation Notes: | Returned to compliance on 10/22/2015. Facility has 10 days to correct 704 placard and post placard for generator (diesel) or fine may be issued. |
| Violation Division: | Corona Fire Department |
| Violation Program: | HMRRP |
| Violation Source: | CERS, |

| | |
|---|---|
| Site ID: | 61171 |
| Site Name: | REHAB MEDICAL CENTER |
| Violation Date: | 06-04-2015 |
| Citation: | HSC 6.75 25299.30-25299.34 - California Health and Safety Code, Chapter 6.75, Section(s) 25299.30-25299.34 |
| Violation Description: | Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance. |
| Violation Notes: | Returned to compliance on 07/02/2015. |
| Violation Division: | Riverside County Department of Env Health |
| Violation Program: | UST |
| Violation Source: | CERS, |

| | |
|---|---|
| Site ID: | 61171 |
| Site Name: | REHAB MEDICAL CENTER |
| Violation Date: | 08-24-2018 |
| Citation: | HSC 6.95 25508.1(a)-(f) - California Health and Safety Code, Chapter 6.95, Section(s) 25508.1(a)-(f) |
| Violation Description: | Failure to electronically update business plan within 30 days of any one of the following events: A 100 percent or more increase in the quantity of a previously disclosed material. Any handling of a previously undisclosed hazardous materials at or above reportable quantities. A change of business address, business ownership, or business name. A substantial change in the handler's operations that requires modification to any portion of the business plan. |
| Violation Notes: | Returned to compliance on 08/04/2020. Update inventory |
| Violation Division: | Corona Fire Department |
| Violation Program: | HMRRP |
| Violation Source: | CERS, |

| | |
|---|---|
| Site ID: | 61171 |
| Site Name: | REHAB MEDICAL CENTER |
| Violation Date: | 08-24-2018 |
| Citation: | HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4) |
| Violation Description: | Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years. |
| Violation Notes: | Provide annual employee training |
| Violation Division: | Corona Fire Department |
| Violation Program: | HMRRP |
| Violation Source: | CERS, |

Site ID: 61171

**REHAB MEDICAL CENTER (Continued)** **S123533419**

Site Name: REHAB MEDICAL CENTER
Violation Date: 08-26-2015
Citation: HSC 6.95 25505(a) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)
Violation Description: Owner/Operator failed to complete and/or submit a Hazardous Materials Business Plan when storing hazardous materials at or above the thresholds quantities of 55 gallons/500 lbs/200 cubic feet.
Violation Notes: Returned to compliance on 09/03/2015. HMBP not complete (inventory & plans)
Violation Division: Corona Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 61171
Site Name: REHAB MEDICAL CENTER
Violation Date: 08-26-2015
Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description: Business Plan Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 10/22/2015. EVS supply storage door placard is incorrect. Need Placard for generator (diesel)
Violation Division: Corona Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 61171
Site Name: REHAB MEDICAL CENTER
Violation Date: 08-24-2018
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes: Returned to compliance on 08/04/2020. Submittal accepted 4/14/2020
Violation Division: Corona Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 61171
Site Name: REHAB MEDICAL CENTER
Violation Date: 08-26-2015
Citation: HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4)
Violation Description: Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years.
Violation Notes: Returned to compliance on 11/04/2015. Email documentation of most recent training.
Violation Division: Corona Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Evaluation:
Eval General Type: Other/Unknown
Eval Date: 10-09-2015
Violations Found: Yes

**REHAB MEDICAL CENTER (Continued)** **S123533419**

| | |
|---|---|
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | Not reported |
| Eval Division: | Corona Fire Department |
| Eval Program: | HMRRP |
| Eval Source: | CERS, |
| | |
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 06-04-2015 |
| Violations Found: | Yes |
| Eval Type: | Routine done by local agency |
| Eval Notes: | Not reported |
| Eval Division: | Riverside County Department of Env Health |
| Eval Program: | UST |
| Eval Source: | CERS, |
| | |
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 06-07-2016 |
| Violations Found: | No |
| Eval Type: | Routine done by local agency |
| Eval Notes: | Not reported |
| Eval Division: | Riverside County Department of Env Health |
| Eval Program: | UST |
| Eval Source: | CERS, |
| | |
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 06-20-2018 |
| Violations Found: | No |
| Eval Type: | Routine done by local agency |
| Eval Notes: | Facility generates little universal waste and non RCRA waste from facility maintenance. Waste medicine is also generated and disposed of via Stericycle. All manifests were available to review on site. Facility will be re classified to a 0-10 Generator. It will be reflected on your next permit invoice. |
| Eval Division: | Riverside County Department of Env Health |
| Eval Program: | HW |
| Eval Source: | CERS, |
| | |
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 08-26-2015 |
| Violations Found: | Yes |
| Eval Type: | Routine done by local agency |
| Eval Notes: | Not reported |
| Eval Division: | Corona Fire Department |
| Eval Program: | HMRRP |
| Eval Source: | CERS, |
| | |
| Eval General Type: | Other/Unknown |
| Eval Date: | 10-19-2018 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | Not reported |
| Eval Division: | Corona Fire Department |
| Eval Program: | HMRRP |
| Eval Source: | CERS, |
| | |
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 06-04-2014 |

**REHAB MEDICAL CENTER (Continued)** **S123533419**

| | |
|---|---|
| Violations Found: | No |
| Eval Type: | Routine done by local agency |
| Eval Notes: | Not reported |
| Eval Division: | Riverside County Department of Env Health |
| Eval Program: | UST |
| Eval Source: | CERS, |
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 08-24-2018 |
| Violations Found: | Yes |
| Eval Type: | Routine done by local agency |
| Eval Notes: | Not reported |
| Eval Division: | Corona Fire Department |
| Eval Program: | HMRRP |
| Eval Source: | CERS, |

Enforcement Action:

| | |
|---|---|
| Site ID: | 61171 |
| Site Name: | REHAB MEDICAL CENTER |
| Site Address: | 730 MAGNOLIA ST |
| Site City: | CORONA |
| Site Zip: | 92879 |
| Enf Action Date: | 06-04-2015 |
| Enf Action Type: | Notice of Violation (Unified Program) |
| Enf Action Description: | Notice of Violation Issued by the Inspector at the Time of Inspection |
| Enf Action Notes: | Not reported |
| Enf Action Division: | Riverside County Department of Env Health |
| Enf Action Program: | UST |
| Enf Action Source: | CERS, |
| Site ID: | 61171 |
| Site Name: | REHAB MEDICAL CENTER |
| Site Address: | 730 MAGNOLIA ST |
| Site City: | CORONA |
| Site Zip: | 92879 |
| Enf Action Date: | 08-24-2018 |
| Enf Action Type: | Notice of Violation (Unified Program) |
| Enf Action Description: | Notice of Violation Issued by the Inspector at the Time of Inspection |
| Enf Action Notes: | Not reported |
| Enf Action Division: | Corona Fire Department |
| Enf Action Program: | HMRRP |
| Enf Action Source: | CERS, |
| Site ID: | 61171 |
| Site Name: | REHAB MEDICAL CENTER |
| Site Address: | 730 MAGNOLIA ST |
| Site City: | CORONA |
| Site Zip: | 92879 |
| Enf Action Date: | 08-26-2015 |
| Enf Action Type: | Notice of Violation (Unified Program) |
| Enf Action Description: | Notice of Violation Issued by the Inspector at the Time of Inspection |
| Enf Action Notes: | Not reported |
| Enf Action Division: | Corona Fire Department |
| Enf Action Program: | HMRRP |
| Enf Action Source: | CERS, |
| Site ID: | 61171 |

**REHAB MEDICAL CENTER (Continued)** **S123533419**

| | |
|---|---|
| Site Name: | REHAB MEDICAL CENTER |
| Site Address: | 730 MAGNOLIA ST |
| Site City: | CORONA |
| Site Zip: | 92879 |
| Enf Action Date: | 10-09-2015 |
| Enf Action Type: | Notice of Violation (Unified Program) |
| Enf Action Description: | Notice of Violation Issued by the Inspector at the Time of Inspection |
| Enf Action Notes: | Not reported |
| Enf Action Division: | Corona Fire Department |
| Enf Action Program: | HMRRP |
| Enf Action Source: | CERS, |

Affiliation:

| | |
|---|---|
| Affiliation Type Desc: | Document Preparer |
| Entity Name: | Feryl Lachappa |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | , |

| | |
|---|---|
| Affiliation Type Desc: | Environmental Contact |
| Entity Name: | Jeff Frechette |
| Entity Title: | Not reported |
| Affiliation Address: | 800 S MAIN ST |
| Affiliation City: | Corona |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 92882 |
| Affiliation Phone: | , |

| | |
|---|---|
| Affiliation Type Desc: | CUPA District |
| Entity Name: | Riverside Cnty Env Health |
| Entity Title: | Not reported |
| Affiliation Address: | 4065 County Circle Drive, Room 104 |
| Affiliation City: | Riverside |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 92503 |
| Affiliation Phone: | (951) 358-5055, |

| | |
|---|---|
| Affiliation Type Desc: | Facility Mailing Address |
| Entity Name: | Mailing Address |
| Entity Title: | Not reported |
| Affiliation Address: | 800 S MAIN ST |
| Affiliation City: | CORONA |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 92882 |
| Affiliation Phone: | , |

| | |
|---|---|
| Affiliation Type Desc: | Operator |
| Entity Name: | Jeff Frechette |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |

**REHAB MEDICAL CENTER (Continued)** **S123533419**

| | |
|---|---|
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | (714) 264-2040, |
| | |
| Affiliation Type Desc: | Parent Corporation |
| Entity Name: | Corona Regional Medical Center |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | , |
| | |
| Affiliation Type Desc: | Identification Signer |
| Entity Name: | Jeff Frechette |
| Entity Title: | Manager of Plant Operations |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | , |
| | |
| Affiliation Type Desc: | Legal Owner |
| Entity Name: | UNIVERSAL HEALTH SERVICES |
| Entity Title: | Not reported |
| Affiliation Address: | 367 SO. GULPH RD |
| Affiliation City: | KING OF PRUSSIA |
| Affiliation State: | PA |
| Affiliation Country: | United States |
| Affiliation Zip: | 19406 |
| Affiliation Phone: | (610) 768-3000, |

---

**M49**
**West**
**1/8-1/4**
**0.237 mi.**
**1251 ft.**

**CIRCLE CITY HOSPITAL** **CA FID UST** **S101618834**
**730 MAGNOLIA AVE** **CERS** **N/A**
**CORONA, CA 91719**

**Site 2 of 7 in cluster M**

**Relative: Higher**

**Actual: 832 ft.**

CA FID UST:

| | |
|---|---|
| Facility ID: | 33004362 |
| Regulated By: | UTNKA |
| Regulated ID: | 00052817 |
| Cortese Code: | Not reported |
| SIC Code: | Not reported |
| Facility Phone: | 7147351211 |
| Mail To: | Not reported |
| Mailing Address: | 730 MAGNOLIA AVE |
| Mailing Address 2: | Not reported |
| Mailing City,St,Zip: | CORONA 91720 |
| Contact: | Not reported |
| Contact Phone: | Not reported |
| DUNs Number: | Not reported |
| NPDES Number: | Not reported |

**CIRCLE CITY HOSPITAL (Continued)** **S101618834**

EPA ID: Not reported
Comments: Not reported
Status: Active

CERS:
Name: CIRCLE CITY HOSPITAL
Address: 730 MAGNOLIA AVE
City,State,Zip: CORONA, CA 91719
Site ID: 189082
CERS ID: T0606500198
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Local Agency Caseworker
Entity Name: Riverside County LOP - RIVERSIDE COUNTY LOP
Entity Title: Not reported
Affiliation Address: 3880 LEMON ST SUITE 200
Affiliation City: RIVERSIDE
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 9519558980,

---

**M50** **REHAB MEDICAL CENTER** **UST** **U004264178**
**West** **730 MAGNOLIA ST** **N/A**
**1/8-1/4** **CORONA, CA 92879**
**0.237 mi.**
**1251 ft.** **Site 3 of 7 in cluster M**

**Relative:**
**Higher**

**Actual:**
**832 ft.**

UST:
Name: REHAB MEDICAL CENTER
Address: 730 MAGNOLIA ST
City,State,Zip: CORONA, CA 92879
Facility ID: FA0014958
Permitting Agency: Riverside County Department of Environmental Health
CERSID: 10473073
Latitude: 33.85799
Longitude: -117.55388

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**M51** **CIRCLE CITY HOSPITAL** **LUST** **S103670652**
**West** **730 MAGNOLIA AVE** **SWEEPS UST** **N/A**
**1/8-1/4** **CORONA, CA 91719** **Cortese**
**0.237 mi.** **HAZNET**
**1251 ft.** **Site 4 of 7 in cluster M** **HIST CORTESE**
**NPDES**

**Relative:**
**Higher**

**CIWQS**
**CERS**

**Actual:**
**832 ft.**

**HWTS**

LUST:
Name: CIRCLE CITY HOSPITAL
Address: 730 MAGNOLIA AVE
City,State,Zip: CORONA, CA 91719
Lead Agency: RIVERSIDE COUNTY LOP
Case Type: LUST Cleanup Site

**CIRCLE CITY HOSPITAL (Continued)** **S103670652**

| | |
|---|---|
| Geo Track: | http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0606500198 |
| Global Id: | T0606500198 |
| Latitude: | 33.8577534633061 |
| Longitude: | -117.553817290599 |
| Status: | Completed - Case Closed |
| Status Date: | 01/10/1991 |
| Case Worker: | RIV |
| RB Case Number: | 083301602T |
| Local Agency: | RIVERSIDE COUNTY LOP |
| File Location: | Local Agency Warehouse |
| Local Case Number: | 90639 |
| Potential Media Affect: | Soil |
| Potential Contaminants of Concern: | Gasoline |
| Site History: | Not reported |

LUST:

| | |
|---|---|
| Global Id: | T0606500198 |
| Contact Type: | Local Agency Caseworker |
| Contact Name: | Riverside County LOP |
| Organization Name: | RIVERSIDE COUNTY LOP |
| Address: | 3880 LEMON ST SUITE 200 |
| City: | RIVERSIDE |
| Email: | Not reported |
| Phone Number: | 9519558980 |

LUST:

| | |
|---|---|
| Global Id: | T0606500198 |
| Action Type: | ENFORCEMENT |
| Date: | 01/09/1991 |
| Action: | File review - #RCDEH Upload Site File 3/11/2015 |
| | |
| Global Id: | T0606500198 |
| Action Type: | Other |
| Date: | 07/13/1990 |
| Action: | Leak Reported |
| | |
| Global Id: | T0606500198 |
| Action Type: | REMEDIATION |
| Date: | 09/25/1990 |
| Action: | Other (Use Description Field) |
| | |
| Global Id: | T0606500198 |
| Action Type: | ENFORCEMENT |
| Date: | 01/09/1991 |
| Action: | Other Report - #UST Sample Analytical Report |
| | |
| Global Id: | T0606500198 |
| Action Type: | Other |
| Date: | 07/03/1990 |
| Action: | Leak Stopped |
| | |
| Global Id: | T0606500198 |
| Action Type: | ENFORCEMENT |
| Date: | 01/10/1991 |
| Action: | Closure/No Further Action Letter - #RCDEH11091 |
| | |
| Global Id: | T0606500198 |

**CIRCLE CITY HOSPITAL (Continued)** **S103670652**

Action Type: Other
Date: 07/03/1990
Action: Leak Discovery

LUST:
Global Id: T0606500198
Status: Open - Case Begin Date
Status Date: 07/03/1990

Global Id: T0606500198
Status: Open - Remediation
Status Date: 09/25/1990

Global Id: T0606500198
Status: Open - Site Assessment
Status Date: 09/25/1990

Global Id: T0606500198
Status: Completed - Case Closed
Status Date: 01/10/1991

LUST REG 8:

| | |
|---|---|
| Name: | CIRCLE CITY HOSPITAL |
| Address: | 730 MAGNOLIA AVE |
| City: | CORONA |
| Region: | 8 |
| County: | Riverside |
| Regional Board: | Santa Ana Region |
| Facility Status: | Case Closed |
| Case Number: | 083301602T |
| Local Case Num: | 90639 |
| Case Type: | Soil only |
| Substance: | Gasoline |
| Qty Leaked: | Not reported |
| Abate Method: | Not reported |
| Cross Street: | KELLOGG |
| Enf Type: | CLOS |
| Funding: | Not reported |
| How Discovered: | Tank Closure |
| How Stopped: | Not reported |
| Leak Cause: | Corrosion |
| Leak Source: | Tank |
| Global ID: | T0606500198 |
| How Stopped Date: | 7/3/1990 |
| Enter Date: | 7/25/1990 |
| Date Confirmation of Leak Began: | Not reported |
| Date Preliminary Assessment Began: | 7/30/1990 |
| Discover Date: | 7/3/1990 |
| Enforcement Date: | 1/1/1965 |
| Close Date: | 1/10/1991 |
| Date Prelim Assessment Workplan Submitted: | Not reported |
| Date Pollution Characterization Began: | Not reported |
| Date Remediation Plan Submitted: | Not reported |
| Date Remedial Action Underway: | Not reported |
| Date Post Remedial Action Monitoring: | Not reported |

**CIRCLE CITY HOSPITAL (Continued)** **S103670652**

| | |
|---|---|
| Enter Date: | 7/25/1990 |
| GW Qualifies: | Not reported |
| Soil Qualifies: | Not reported |
| Operator: | Not reported |
| Facility Contact: | Not reported |
| Interim: | Not reported |
| Oversite Program: | LUST |
| Latitude: | 33.8587331 |
| Longitude: | -117.5550672 |
| MTBE Date: | Not reported |
| Max MTBE GW: | Not reported |
| MTBE Concentration: | 0 |
| Max MTBE Soil: | Not reported |
| MTBE Fuel: | 1 |
| MTBE Tested: | Site NOT Tested for MTBE.Includes Unknown and Not Analyzed. |
| MTBE Class: | * |
| Staff: | PAH |
| Staff Initials: | UNK |
| Lead Agency: | Local Agency |
| Local Agency: | 33000L |
| Hydr Basin #: | UPPER SANTA ANA VALL |
| Beneficial: | Not reported |
| Priority: | Not reported |
| Cleanup Fund Id: | Not reported |
| Work Suspended: | Not reported |

Summary: Not reported

RIVERSIDE CO. LUST:

| | |
|---|---|
| Name: | CIRCLE CITY HOSPITAL |
| Address: | 730 MAGNOLIA AVE |
| City,State,Zip: | CORONA, CA |
| Region: | RIVERSIDE |
| Facility ID: | 90639 |
| Employee: | Rogers |
| Site Closed: | Yes |
| Case Type: | Soil only |
| Facility Status: | closed/action completed |
| Casetype Decode: | Soil only is impacted |
| Fstatus Decode: | Closed/Action completed |

SWEEPS UST:

| | |
|---|---|
| Name: | CIRCLE CITY HOSPITAL |
| Address: | 730 MAGNOLIA AVE |
| City: | CORONA |
| Status: | Active |
| Comp Number: | 52817 |
| Number: | 1 |
| Board Of Equalization: | 44-018340 |
| Referral Date: | 10-28-92 |
| Action Date: | 10-28-92 |
| Created Date: | 02-29-88 |
| Owner Tank Id: | 000321 |
| SWRCB Tank Id: | 33-000-052817-000002 |
| Tank Status: | A |
| Capacity: | 2500 |
| Active Date: | 10-28-92 |

**CIRCLE CITY HOSPITAL (Continued)** **S103670652**

Tank Use: M.V. FUEL
STG: P
Content: DIESEL
Number Of Tanks: 1

CORTESE:
Name: CIRCLE CITY HOSPITAL
Address: 730 MAGNOLIA AVE
City,State,Zip: CORONA, CA 91719
Region: CORTESE
Envirostor Id: Not reported
Global ID: T0606500198
Site/Facility Type: LUST CLEANUP SITE
Cleanup Status: COMPLETED - CASE CLOSED
Status Date: Not reported
Site Code: Not reported
Latitude: Not reported
Longitude: Not reported
Owner: Not reported
Enf Type: Not reported
Swat R: Not reported
Flag: active
Order No: Not reported
Waste Discharge System No: Not reported
Effective Date: Not reported
Region 2: Not reported
WID Id: Not reported
Solid Waste Id No: Not reported
Waste Management Uit Name: Not reported
File Name: Active Open

HAZNET:
Name: CORONA REGIONAL MEDICAL CENTER REHAB
Address: 730 MAGNOLIA AVE
Address 2: Not reported
City,State,Zip: CORONA, CA 92879
Contact: PILAR TRIGUERO
Telephone: 9517366378
Mailing Name: Not reported
Mailing Address: 730 MAGNOLIA AVE

Year: 2019
Gepaid: CAL000385968
TSD EPA ID: CAD009007626
CA Waste Code: 151 - Asbestos containing waste
Disposal Method: H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill( To Include On-Site Treatment And/Or Stabilization)
Tons: 1.15000

Year: 2018
Gepaid: CAL000385968
TSD EPA ID: CAD008364432
CA Waste Code: 122 - Alkaline solution without metals pH >= 12.5
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.11450

**CIRCLE CITY HOSPITAL (Continued)** **S103670652**

| | |
|---|---|
| Year: | 2018 |
| Gepaid: | CAL000385968 |
| TSD EPA ID: | CAD008364432 |
| CA Waste Code: | 221 - Waste oil and mixed oil |
| Disposal Method: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Tons: | 0.10800 |
| Year: | 2017 |
| Gepaid: | CAL000385968 |
| TSD EPA ID: | CAD008364432 |
| CA Waste Code: | 311 - Pharmaceutical waste |
| Disposal Method: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Tons: | 0.0085 |
| Year: | 2017 |
| Gepaid: | CAL000385968 |
| TSD EPA ID: | CAD008364432 |
| CA Waste Code: | 331 - Off-specification, aged or surplus organics |
| Disposal Method: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Tons: | 0.006 |
| Year: | 2017 |
| Gepaid: | CAL000385968 |
| TSD EPA ID: | CAD008364432 |
| CA Waste Code: | 221 - Waste oil and mixed oil |
| Disposal Method: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Tons: | 0.048 |
| Year: | 2017 |
| Gepaid: | CAL000385968 |
| TSD EPA ID: | CAD028409019 |
| CA Waste Code: | 241 - Tank bottom waste |
| Disposal Method: | H135 - Discharge To Sewer/Potw Or Npdes(With Prior Storage--With Or Without Treatment) |
| Tons: | 0.2085 |
| Year: | 2017 |
| Gepaid: | CAL000385968 |
| TSD EPA ID: | AZC950823111 |
| CA Waste Code: | - |
| Disposal Method: | H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill( To Include On-Site Treatment And/Or Stabilization) |
| Tons: | 33.712 |
| Year: | 2016 |
| Gepaid: | CAL000385968 |
| TSD EPA ID: | CAD008364432 |
| CA Waste Code: | 331 - Off-specification, aged or surplus organics |
| Disposal Method: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Tons: | 0.0075 |
| Year: | 2016 |

**CIRCLE CITY HOSPITAL (Continued)** **S103670652**

Gepaid: CAL000385968
TSD EPA ID: CAD008364432
CA Waste Code: 311 - Pharmaceutical waste
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.004

Click this hyperlink while viewing on your computer to access
1 additional CA HAZNET: record(s) in the EDR Site Report.

Additional Info:
Year: 2016
Gen EPA ID: CAL000385968

Shipment Date: 20151029
Creation Date: 5/4/2016 22:15:42
Receipt Date: 20151104
Manifest ID: 014918769JJK
Trans EPA ID: CAT080012800
Trans Name: HAZ MAT TRANS INC
Trans 2 EPA ID: CAR000175422
Trans 2 Name: WORLD WIDE RECOVERY SYSTEMS
TSDF EPA ID: AZR000515924
Trans Name: YUMA ENVIRONMENTAL SERVICES
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 331 - Off-specification, aged, or surplus organics
RCRA Code: Not reported
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons: 0.035
Waste Quantity: 70
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:
Year: 2015
Gen EPA ID: CAL000385968

Shipment Date: 20151029
Creation Date: 5/4/2016 22:15:42
Receipt Date: 20151104
Manifest ID: 014918769JJK
Trans EPA ID: CAT080012800
Trans Name: HAZ MAT TRANS INC
Trans 2 EPA ID: CAR000175422
Trans 2 Name: WORLD WIDE RECOVERY SYSTEMS
TSDF EPA ID: AZR000515924
Trans Name: YUMA ENVIRONMENTAL SERVICES
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported

**CIRCLE CITY HOSPITAL (Continued)** **S103670652**

| | |
|---|---|
| Waste Code Description: | 331 - Off-specification, aged, or surplus organics |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.035 |
| Waste Quantity: | 70 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2017 |
| Gen EPA ID: | CAL000385968 |
| Shipment Date: | 20170918 |
| Creation Date: | 5/30/2018 18:33:59 |
| Receipt Date: | 20170921 |
| Manifest ID: | 017887542JJK |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC (LA) |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD008364432 |
| Trans Name: | RHO-CHEM LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 311 - Pharmaceutical waste |
| RCRA Code: | D024 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.006 |
| Waste Quantity: | 12 |
| Quantity Unit: | P |
| Additional Code 1: | D011 |
| Additional Code 2: | D010 |
| Additional Code 3: | D009 |
| Additional Code 4: | D007 |
| Additional Code 5: | Not reported |
| Shipment Date: | 20170918 |
| Creation Date: | 5/30/2018 18:33:59 |
| Receipt Date: | 20170921 |
| Manifest ID: | 017887542JJK |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC (LA) |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD008364432 |
| Trans Name: | RHO-CHEM LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 221 - Waste oil and mixed oil |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No |

**CIRCLE CITY HOSPITAL (Continued)** **S103670652**

| | |
|---|---|
| | Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.048 |
| Waste Quantity: | 96 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20170725 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 011850027JJK |
| Trans EPA ID: | CAL000386391 |
| Trans Name: | BELFOR ENVIRONMENTAL INC |
| Trans 2 EPA ID: | CAR000049064 |
| Trans 2 Name: | ECTI |
| TSDF EPA ID: | AZC950823111 |
| Trans Name: | LA PAZ COUNTY LANDFILL |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | - Not reported |
| RCRA Code: | Not reported |
| Meth Code: | H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill( To Include On-Site Treatment And/Or Stabilization) |
| Quantity Tons: | Not reported |
| Waste Quantity: | Not reported |
| Quantity Unit: | Not reported |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20170725 |
| Creation Date: | 10/10/2018 18:30:31 |
| Receipt Date: | 20170727 |
| Manifest ID: | 011850027JJK |
| Trans EPA ID: | CAL000386391 |
| Trans Name: | BELFOR ENVIRONMENTAL INC |
| Trans 2 EPA ID: | CAR000049064 |
| Trans 2 Name: | ECTI |
| TSDF EPA ID: | AZC950823111 |
| Trans Name: | LA PAZ COUNTY LANDFILL |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | - Not reported |
| RCRA Code: | Not reported |
| Meth Code: | H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill( To Include On-Site Treatment And/Or Stabilization) |
| Quantity Tons: | 33.712 |
| Waste Quantity: | 40 |
| Quantity Unit: | Y |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |

**CIRCLE CITY HOSPITAL (Continued)** **S103670652**

| | |
|---|---|
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20170725 |
| Creation Date: | 7/16/2018 18:31:15 |
| Receipt Date: | 20170727 |
| Manifest ID: | 011850028JJK |
| Trans EPA ID: | CAL000386391 |
| Trans Name: | BELFOR ENVIRONMENTAL INC |
| Trans 2 EPA ID: | CAR000049064 |
| Trans 2 Name: | ECTI |
| TSDF EPA ID: | AZC950823111 |
| Trans Name: | LA PAZ COUNTY LANDFILL |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | - Not reported |
| RCRA Code: | Not reported |
| Meth Code: | H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill( To Include On-Site Treatment And/Or Stabilization) |
| Quantity Tons: | 33.712 |
| Waste Quantity: | 40 |
| Quantity Unit: | Y |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20170501 |
| Creation Date: | 5/9/2018 18:32:37 |
| Receipt Date: | 20170504 |
| Manifest ID: | 017400031JJK |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC (LA) |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD008364432 |
| Trans Name: | RHO-CHEM LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 311 - Pharmaceutical waste |
| RCRA Code: | D024 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.0025 |
| Waste Quantity: | 5 |
| Quantity Unit: | P |
| Additional Code 1: | D011 |
| Additional Code 2: | D010 |
| Additional Code 3: | D009 |
| Additional Code 4: | D007 |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20170501 |
| Creation Date: | 5/9/2018 18:32:37 |
| Receipt Date: | 20170504 |
| Manifest ID: | 017400031JJK |

**CIRCLE CITY HOSPITAL (Continued)** **S103670652**

| | |
|---|---|
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC (LA) |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD008364432 |
| Trans Name: | RHO-CHEM LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 331 - Off-specification, aged, or surplus organics |
| RCRA Code: | D001 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.006 |
| Waste Quantity: | 12 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20170302 |
| Creation Date: | 5/24/2017 18:30:17 |
| Receipt Date: | 20170303 |
| Manifest ID: | 016590913JJK |
| Trans EPA ID: | CAR000172874 |
| Trans Name: | ABLE ENVIRONMENTAL SERVICES |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD028409019 |
| Trans Name: | CROSBY & OVERTON |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 241 - Tank bottom waste 251 Still bottoms with halogenated organics |
| RCRA Code: | Not reported |
| Meth Code: | H135 - Discharge To Sewer/Potw Or Npdes(With Prior Storage--With Or Without Treatment) |
| Quantity Tons: | 0.2085 |
| Waste Quantity: | 50 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

HIST CORTESE:

| | |
|---|---|
| edr_fname: | CIRCLE CITY HOSPITAL |
| edr_fadd1: | 730 MAGNOLIA |
| City,State,Zip: | CORONA, CA 91720 |
| Region: | CORTESE |
| Facility County Code: | 33 |
| Reg By: | LTNKA |
| Reg Id: | 083301602T |

NPDES:

**CIRCLE CITY HOSPITAL (Continued)** **S103670652**

| | |
|---|---|
| Name: | UHS CORONA |
| Address: | 730 MAGNOLIA AVE |
| City,State,Zip: | CORONA, CA 92879 |
| Facility Status: | Not reported |
| NPDES Number: | Not reported |
| Region: | Not reported |
| Agency Number: | Not reported |
| Regulatory Measure ID: | Not reported |
| Place ID: | Not reported |
| Order Number: | Not reported |
| WDID: | 8 33C395420 |
| Regulatory Measure Type: | Construction |
| Program Type: | Not reported |
| Adoption Date Of Regulatory Measure: | Not reported |
| Effective Date Of Regulatory Measure: | Not reported |
| Termination Date Of Regulatory Measure: | Not reported |
| Expiration Date Of Regulatory Measure: | Not reported |
| Discharge Address: | Not reported |
| Discharge Name: | Not reported |
| Discharge City: | Not reported |
| Discharge State: | Not reported |
| Discharge Zip: | Not reported |
| Status: | Active |
| Status Date: | 10/14/2021 |
| Operator Name: | UHS Corona Inc |
| Operator Address: | 367 South Gulph Road |
| Operator City: | King of Prussia |
| Operator State: | Pennsylvania |
| Operator Zip: | 19406 |

| | |
|---|---|
| Name: | UHS CORONA |
| Address: | 730 MAGNOLIA AVE |
| City,State,Zip: | CORONA, CA 92879 |
| Facility Status: | Active |
| NPDES Number: | CAS000002 |
| Region: | 8 |
| Agency Number: | 0 |
| Regulatory Measure ID: | 540266 |
| Place ID: | Not reported |
| Order Number: | 2009-0009-DWQ |
| WDID: | 8 33C395420 |
| Regulatory Measure Type: | Enrollee |
| Program Type: | Construction |
| Adoption Date Of Regulatory Measure: | Not reported |
| Effective Date Of Regulatory Measure: | 10/14/2021 |
| Termination Date Of Regulatory Measure: | Not reported |
| Expiration Date Of Regulatory Measure: | Not reported |
| Discharge Address: | 367 South Gulph Road |
| Discharge Name: | UHS Corona Inc |
| Discharge City: | King of Prussia |
| Discharge State: | Pennsylvania |
| Discharge Zip: | 19406 |
| Status: | Not reported |
| Status Date: | Not reported |
| Operator Name: | Not reported |
| Operator Address: | Not reported |
| Operator City: | Not reported |

**CIRCLE CITY HOSPITAL (Continued)** **S103670652**

Operator State: Not reported
Operator Zip: Not reported

CIWQS:
Name: UHS CORONA
Address: 730 MAGNOLIA AVE
City,State,Zip: CORONA, CA 92879
Agency: UHS Corona Inc
Agency Address: 367 South Gulph Road, King Of Prussia , PA 19406
Place/Project Type: Construction - Commercial
SIC/NAICS: Not reported
Region: 8
Program: CONSTW
Regulatory Measure Status: Active
Regulatory Measure Type: Storm water construction
Order Number: 2009-0009-DWQ
WDID: 8 33C395420
NPDES Number: CAS000002
Adoption Date: Not reported
Effective Date: 10/14/2021
Termination Date: Not reported
Expiration/Review Date: Not reported
Design Flow: Not reported
Major/Minor: Not reported
Complexity: Not reported
TTWQ: Not reported
Enforcement Actions within 5 years: 0
Violations within 5 years: 0
Latitude: 33.85711
Longitude: -117.55398

CERS:
Name: UHS CORONA
Address: 730 MAGNOLIA AVE
City,State,Zip: CORONA, CA 92879
Site ID: 596253
CERS ID: 897205
CERS Description: Construction Storm Water

Affiliation:
Affiliation Type Desc: Owner/Operator
Entity Name: UHS Corona Inc
Entity Title: Operator
Affiliation Address: 367 South Gulph Road
Affiliation City: King of Prussia
Affiliation State: PA
Affiliation Country: Not reported
Affiliation Zip: 19406
Affiliation Phone: ,

HWTS:
Name: CORONA REGIONAL MEDICAL CENTER REHAB
Address: 730 MAGNOLIA AVE
Address 2: Not reported
City,State,Zip: CORONA, CA 92882

**CIRCLE CITY HOSPITAL (Continued)** **S103670652**

EPA ID: CAL000385968
Inactive Date: Not reported
Create Date: 06/05/2013
Last Act Date: Not reported
Mailing Name: Not reported
Mailing Address: 730 MAGNOLIA AVE
Mailing Address 2: Not reported
Mailing City,State,Zip: CORONA, CA 92879
Owner Name: UNIVERSAL HEALTH SVCS OF DELAWARE
Owner Address: 367 S GULPH RD
Owner Address 2: Not reported
Owner City,State,Zip: KING OF PRUSSIA, PA 19406
Contact Name: PILAR TRIGUERO
Contact Address: 730 MAGNOLIA AVE
Contact Address 2: Not reported
City,State,Zip: CORONA, CA 92879
Facility Status: Active
Facility Type: PERMANENT
Category: STATE
Latitude: 33.857991
Longitude: -117.5538195

NAICS:
EPA ID: CAL000385968
Create Date: 2013-06-05 14:47:36.520
NAICS Code: 62211
NAICS Description: General Medical and Surgical Hospitals
Issued EPA ID Date: 2013-06-05 14:47:36.51700
Inactive Date: Not reported
Facility Name: CORONA REGIONAL MEDICAL CENTER REHAB
Facility Address: 730 MAGNOLIA AVE
Facility Address 2: Not reported
Facility City: CORONA
Facility County: Not reported
Facility State: CA
Facility Zip: 92882

Name: CIRCLE CITY HOSPITAL
Address: 730 MAGNOLIA
Address 2: Not reported
City,State,Zip: CORONA, CA 91720
EPA ID: CAL000026859
Inactive Date: 01/01/1995
Create Date: 05/09/1990
Last Act Date: Not reported
Mailing Name: Not reported
Mailing Address: 730 MAGNOLIA
Mailing Address 2: Not reported
Mailing City,State,Zip: CORONA, CA 917200000
Owner Name: AMERICAN MEDICAL INT
Owner Address: Not reported
Owner Address 2: Not reported
Owner City,State,Zip: Not reported
Contact Name: INACTIVE PER SURVEY NOV 1994
Contact Address: Not reported
Contact Address 2: Not reported
City,State,Zip: Not reported

**CIRCLE CITY HOSPITAL (Continued)** **S103670652**

| | |
|---|---|
| Facility Status: | Inactive |
| Facility Type: | PERMANENT |
| Category: | STATE |
| Latitude: | 33.858534 |
| Longitude: | -117.554833 |

---

**M52** **CORONA REGIONAL MEDICAL CENTER** **UST** **U003948865**
**West** **730 MAGNOLIA AVE** **N/A**
**1/8-1/4** **CORONA, CA 92879**
**0.237 mi.**
**1251 ft.** **Site 5 of 7 in cluster M**

**Relative:** UST:
**Higher**

| | |
|---|---|
| **Actual:** Name: | CORONA REGIONAL MEDICAL CENTER |
| **832 ft.** Address: | 730 MAGNOLIA AVE |
| City,State,Zip: | CORONA, CA 92879 |
| Facility ID: | 245 |
| Permitting Agency: | RIVERSIDE COUNTY |
| CERSID: | Not reported |
| Latitude: | 33.859264 |
| Longitude: | -117.55253 |

---

**M53** **CIRCLE CITY HOSPITAL** **HIST UST** **U001569087**
**West** **730 OLD MAGNOLIA AVE** **N/A**
**1/8-1/4** **CORONA, CA 91720**
**0.237 mi.**
**1251 ft.** **Site 6 of 7 in cluster M**

**Relative:** HIST UST:
**Higher**

| | |
|---|---|
| **Actual:** Name: | CIRCLE CITY HOSPITAL |
| **832 ft.** Address: | 730 OLD MAGNOLIA AVE |
| City,State,Zip: | CORONA, CA 91720 |
| File Number: | 0002D927 |
| URL: | http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002D927.pdf |
| Region: | STATE |
| Facility ID: | 00000052817 |
| Facility Type: | Other |
| Other Type: | HOSPITAL |
| Contact Name: | ROBERT BYRN/KEN KING |
| Telephone: | 7147351211 |
| Owner Name: | AMERICAN MEDICAL INTERNATIONAL |
| Owner Address: | 414 NORTH CAMDEN DRIVE |
| Owner City,St,Zip: | BEVERLY HILL, CA 90210 |
| Total Tanks: | 0001 |
| | |
| Tank Num: | 001 |
| Container Num: | 001 |
| Year Installed: | 1978 |
| Tank Capacity: | 00000500 |
| Tank Used for: | PRODUCT |
| Type of Fuel: | REGULAR |
| Container Construction Thickness: | Not reported |
| Leak Detection: | Stock Inventor |

**CIRCLE CITY HOSPITAL (Continued)** **U001569087**

Click here for Geo Tracker PDF:

**M54** **CORONA REGIONAL MEDICAL CENTER REHAB** **RCRA NonGen / NLR** **1024838752**
**West** **730 MAGNOLIA AVE** **CAL000385968**
**1/8-1/4** **CORONA, CA 92882**
**0.237 mi.**
**1251 ft.** **Site 7 of 7 in cluster M**

**Relative:** **Higher**
**Actual:** **832 ft.**

RCRA NonGen / NLR:

| | |
|---|---|
| Date Form Received by Agency: | 20130605 |
| Handler Name: | CORONA REGIONAL MEDICAL CENTER REHAB |
| Handler Address: | 730 MAGNOLIA AVE |
| Handler City,State,Zip: | CORONA, CA 92882 |
| EPA ID: | CAL000385968 |
| Contact Name: | CAMILE COLLINS |
| Contact Address: | 800 S MAIN ST |
| Contact City,State,Zip: | CORONA, CA 92882 |
| Contact Telephone: | 951-736-6217 |
| Contact Fax: | 951-736-4855 |
| Contact Email: | CAMILE.COLLINS@UHSINC.COM |
| Contact Title: | Not reported |
| EPA Region: | 09 |
| Land Type: | Not reported |
| Federal Waste Generator Description: | Not a generator, verified |
| Non-Notifier: | Not reported |
| Biennial Report Cycle: | Not reported |
| Accessibility: | Not reported |
| Active Site Indicator: | Handler Activities |
| State District Owner: | Not reported |
| State District: | Not reported |
| Mailing Address: | 800 S MAIN ST |
| Mailing City,State,Zip: | CORONA, CA 92882 |
| Owner Name: | UNIVERSAL HEALTH SVCS OF DELAWARE |
| Owner Type: | Other |
| Operator Name: | CAMILE COLLINS |
| Operator Type: | Other |
| Short-Term Generator Activity: | No |
| Importer Activity: | No |
| Mixed Waste Generator: | No |
| Transporter Activity: | No |
| Transfer Facility Activity: | No |
| Recycler Activity with Storage: | No |
| Small Quantity On-Site Burner Exemption: | No |
| Smelting Melting and Refining Furnace Exemption: | No |
| Underground Injection Control: | No |
| Off-Site Waste Receipt: | No |
| Universal Waste Indicator: | Yes |
| Universal Waste Destination Facility: | Yes |
| Federal Universal Waste: | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site State-Reg Handler: | --- |
| Federal Facility Indicator: | Not reported |
| Hazardous Secondary Material Indicator: | N |
| Sub-Part K Indicator: | Not reported |
| Commercial TSD Indicator: | No |
| Treatment Storage and Disposal Type: | Not reported |

**CORONA REGIONAL MEDICAL CENTER REHAB (Continued)** **1024838752**

| | |
|---|---|
| 2018 GPRA Permit Baseline: | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | Not on the Baseline |
| Permit Renewals Workload Universe: | Not reported |
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 20181001 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | No |
| Manifest Broker: | No |
| Sub-Part P Indicator: | No |

Handler - Owner Operator:

| | |
|---|---|
| Owner/Operator Indicator: | Operator |
| Owner/Operator Name: | CAMILE COLLINS |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 800 S MAIN ST |
| Owner/Operator City,State,Zip: | CORONA, CA 92882 |
| Owner/Operator Telephone: | 951-736-6217 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

| | |
|---|---|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | UNIVERSAL HEALTH SVCS OF DELAWARE |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 367 S GULPH RD |
| Owner/Operator City,State,Zip: | KING OF PRUSSIA, PA 19406 |
| Owner/Operator Telephone: | 951-737-4343 |
| Owner/Operator Telephone Ext: | Not reported |

**CORONA REGIONAL MEDICAL CENTER REHAB (Continued)** **1024838752**

Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20130605
Handler Name: CORONA REGIONAL MEDICAL CENTER REHAB
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 62211
NAICS Description: GENERAL MEDICAL AND SURGICAL HOSPITALS

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

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**L55** **QUALITY BUSINESS SOLUTIONS INC** **RCRA-SQG** **1025882371**
**NE** **1161 CALIFORNIA AVE** **CAR000086496**
**1/8-1/4** **CORONA, CA 92881**
**0.241 mi.**
**1274 ft.** **Site 2 of 2 in cluster L**

**Relative:** RCRA-SQG:
**Lower**
Date Form Received by Agency: 20030718
**Actual:** Handler Name: QUALITY BUSINESS SOLUTIONS INC
**730 ft.** Handler Address: 1161 CALIFORNIA AVE
Handler City,State,Zip: CORONA, CA 92881
EPA ID: CAR000086496
Contact Name: ANTHONY ARNOLD
Contact Address: 1161 CALIFORNIA AVE
Contact City,State,Zip: CORONA, CA 92881
Contact Telephone: 909-272-8278
Contact Fax: Not reported
Contact Email: Not reported
Contact Title: Not reported
EPA Region: 09
Land Type: Private
Federal Waste Generator Description: Small Quantity Generator
Non-Notifier: Not reported
Biennial Report Cycle: Not reported
Accessibility: Not reported
Active Site Indicator: Handler Activities
State District Owner: Not reported
State District: Not reported

**QUALITY BUSINESS SOLUTIONS INC (Continued)** **1025882371**

| | |
|---|---|
| Mailing Address: | 1161 CALIFORNIA AVE |
| Mailing City,State,Zip: | CORONA, CA 92881 |
| Owner Name: | ANTHONY ARNOLD |
| Owner Type: | Private |
| Operator Name: | ANTHONY ARNOLD |
| Operator Type: | Private |
| Short-Term Generator Activity: | No |
| Importer Activity: | No |
| Mixed Waste Generator: | No |
| Transporter Activity: | No |
| Transfer Facility Activity: | No |
| Recycler Activity with Storage: | No |
| Small Quantity On-Site Burner Exemption: | No |
| Smelting Melting and Refining Furnace Exemption: | No |
| Underground Injection Control: | No |
| Off-Site Waste Receipt: | No |
| Universal Waste Indicator: | No |
| Universal Waste Destination Facility: | No |
| Federal Universal Waste: | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site State-Reg Handler: | --- |
| Federal Facility Indicator: | Not reported |
| Hazardous Secondary Material Indicator: | N |
| Sub-Part K Indicator: | Not reported |
| Commercial TSD Indicator: | No |
| Treatment Storage and Disposal Type: | Not reported |
| 2018 GPRA Permit Baseline: | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | Not on the Baseline |
| Permit Renewals Workload Universe: | Not reported |
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 20031009 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |

**QUALITY BUSINESS SOLUTIONS INC (Continued)** **1025882371**

| | |
|---|---|
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | No |
| Manifest Broker: | No |
| Sub-Part P Indicator: | No |

Hazardous Waste Summary:

| | |
|---|---|
| Waste Code: | D000 |
| Waste Description: | Not Defined |
| Waste Code: | D001 |
| Waste Description: | IGNITABLE WASTE |
| Waste Code: | D018 |
| Waste Description: | BENZENE |
| Waste Code: | D039 |
| Waste Description: | TETRACHLOROETHYLENE |
| Waste Code: | D040 |
| Waste Description: | TRICHLORETHYLENE |

Handler - Owner Operator:

| | |
|---|---|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | SPACECRAFT MACHINE PRODUCTS |
| Legal Status: | Private |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 23880 MADISON ST |
| Owner/Operator City,State,Zip: | TORRANCE, CA 90505 |
| Owner/Operator Telephone: | 310-373-8988 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | JAMES SPEIGHT AND JACK PLATT |
| Legal Status: | Private |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 1161 CALIFORNIA AVE |
| Owner/Operator City,State,Zip: | CORONA, CA 92881 |
| Owner/Operator Telephone: | 909-272-8278 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | ANTHONY ARNOLD |
| Legal Status: | Private |
| Date Became Current: | 20030429 |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | Not reported |
| Owner/Operator City,State,Zip: | Not reported |
| Owner/Operator Telephone: | Not reported |
| Owner/Operator Telephone Ext: | Not reported |

**QUALITY BUSINESS SOLUTIONS INC (Continued)** **1025882371**

| | |
|---|---|
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |
| Owner/Operator Indicator: | Operator |
| Owner/Operator Name: | ANTHONY ARNOLD |
| Legal Status: | Private |
| Date Became Current: | 20030429 |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | Not reported |
| Owner/Operator City,State,Zip: | Not reported |
| Owner/Operator Telephone: | Not reported |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

Historic Generators:

| | |
|---|---|
| Receive Date: | 20011003 |
| Handler Name: | PACIFIC MACHINE PRODUCT L L C |
| Federal Waste Generator Description: | Small Quantity Generator |
| State District Owner: | Not reported |
| Large Quantity Handler of Universal Waste: | No |
| Recognized Trader Importer: | No |
| Recognized Trader Exporter: | No |
| Spent Lead Acid Battery Importer: | No |
| Spent Lead Acid Battery Exporter: | No |
| Current Record: | No |
| Non Storage Recycler Activity: | Not reported |
| Electronic Manifest Broker: | Not reported |

| | |
|---|---|
| Receive Date: | 20030718 |
| Handler Name: | QUALITY BUSINESS SOLUTIONS INC |
| Federal Waste Generator Description: | Small Quantity Generator |
| State District Owner: | Not reported |
| Large Quantity Handler of Universal Waste: | No |
| Recognized Trader Importer: | No |
| Recognized Trader Exporter: | No |
| Spent Lead Acid Battery Importer: | No |
| Spent Lead Acid Battery Exporter: | No |
| Current Record: | Yes |
| Non Storage Recycler Activity: | Not reported |
| Electronic Manifest Broker: | Not reported |

List of NAICS Codes and Descriptions:

| | |
|---|---|
| NAICS Code: | 33641 |
| NAICS Description: | AEROSPACE PRODUCT AND PARTS MANUFACTURING |

Facility Has Received Notices of Violations:

| | |
|---|---|
| Violations: | No Violations Found |

Evaluation Action Summary:

| | |
|---|---|
| Evaluations: | No Evaluations Found |

**N56** **SHELL #1205** **LUST** **S104791921**
**NNE** **1205 MAGNOLIA AVE** **CDL** **N/A**
**1/4-1/2** **CORONA, CA 91719**
**0.340 mi.**
**1794 ft.** **Site 1 of 2 in cluster N**

**Relative:** **Lower**

**Actual:** **717 ft.**

LUST REG 8:

| | |
|---|---|
| Name: | SHELL #1205 |
| Address: | 1205 MAGNOLIA AVE |
| City: | CORONA |
| Region: | 8 |
| County: | Riverside |
| Regional Board: | Santa Ana Region |
| Facility Status: | Post remedial action monitoring |
| Case Number: | 083301917T |
| Local Case Num: | 91850 |
| Case Type: | Soil only |
| Substance: | Regular Gasoline |
| Qty Leaked: | Not reported |
| Abate Method: | Not reported |
| Cross Street: | Not reported |
| Enf Type: | Not reported |
| Funding: | Not reported |
| How Discovered: | OM |
| How Stopped: | Not reported |
| Leak Cause: | UNK |
| Leak Source: | Piping |
| Global ID: | T0606500247 |
| How Stopped Date: | 9/12/1991 |
| Enter Date: | 7/26/1991 |
| Date Confirmation of Leak Began: | 9/12/1991 |
| Date Preliminary Assessment Began: | 6/18/1992 |
| Discover Date: | 9/12/1991 |
| Enforcement Date: | Not reported |
| Close Date: | Not reported |
| Date Prelim Assessment Workplan Submitted: | 9/17/1991 |
| Date Pollution Characterization Began: | 9/29/1995 |
| Date Remediation Plan Submitted: | Not reported |
| Date Remedial Action Underway: | Not reported |
| Date Post Remedial Action Monitoring: | 2/16/1996 |
| Enter Date: | 7/26/1991 |
| GW Qualifies: | = |
| Soil Qualifies: | = |
| Operator: | Not reported |
| Facility Contact: | Not reported |
| Interim: | Not reported |
| Oversite Program: | LUST |
| Latitude: | 33.864545 |
| Longitude: | -117.544116 |
| MTBE Date: | 2/5/2004 |
| Max MTBE GW: | 250 |
| MTBE Concentration: | 0 |
| Max MTBE Soil: | 3400 |
| MTBE Fuel: | 1 |
| MTBE Tested: | MTBE Detected. Site tested for MTBE & MTBE detected |
| MTBE Class: | * |
| Staff: | CAB |
| Staff Initials: | UNK |
| Lead Agency: | Local Agency |

**SHELL #1205 (Continued)** **S104791921**

Local Agency: 33000L
Hydr Basin #: UPPER SANTA ANA VALL
Beneficial: Not reported
Priority: Not reported
Cleanup Fund Id: Not reported
Work Suspended: Not reported
Summary: LEAK FOUND IN FLEXCONNECTOR OF TURBINE. FLEX CONNECTOR REPAIRED. RIVERSIDE COUNTY AGREED TO A 3 YEAR WAITING PERIOD. CONFIRMATION BORINGS TO BE DRILLED DURING THE FIRST QUARTER OF 1999.

CDL:
Name: Not reported
Address: 1205 MAGNOLIA AVE
City,State,Zip: CORONA, CA 92879
Facility ID: 2005-05-003
Date: 05/11/2005
Labtype: Abandoned Drug Lab
Lab Type: Abandoned Drug Lab Waste (A) - location away from an actual illegal drug lab where drug lab waste and/or equipment were abandoned.

---

**N57** **SHELL MAGNOLIA CORONA** **LUST** **S103820890**
**NNE** **1205 MAGNOLIA AVE** **Cortese** **N/A**
**1/4-1/2** **CORONA, CA 91719** **CERS**
**0.340 mi.**
**1794 ft.** **Site 2 of 2 in cluster N**

**Relative:**
**Lower**

**Actual:**
**717 ft.**

LUST:
Name: SHELL MAGNOLIA CORONA
Address: 1205 MAGNOLIA AVE
City,State,Zip: CORONA, CA 91719
Lead Agency: RIVERSIDE COUNTY LOP
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0606500247
Global Id: T0606500247
Latitude: 33.865101627
Longitude: -117.544641
Status: Completed - Case Closed
Status Date: 05/11/2009
Case Worker: SCB
RB Case Number: 083301917T
Local Agency: RIVERSIDE COUNTY LOP
File Location: Local Agency
Local Case Number: 91850
Potential Media Affect: Aquifer used for drinking water supply
Potential Contaminants of Concern: Gasoline
Site History: Not reported

LUST:
Global Id: T0606500247
Contact Type: Regional Board Caseworker
Contact Name: CARL BERNHARDT
Organization Name: SANTA ANA RWQCB (REGION 8)
Address: 3737 MAIN STREET, SUITE 500
City: RIVERSIDE
Email: carl.bernhardt@waterboards.ca.gov
Phone Number: 9517824495

Global Id: T0606500247

**SHELL MAGNOLIA CORONA (Continued)** **S103820890**

Contact Type: Local Agency Caseworker
Contact Name: SHARON BOLTINGHOUSE
Organization Name: RIVERSIDE COUNTY LOP
Address: 3880 LEMON ST SUITE 200
City: RIVERSIDE
Email: sbolting@rivco.org
Phone Number: 9519558980

LUST:

Global Id: T0606500247
Action Type: ENFORCEMENT
Date: 07/31/2003
Action: File review

Global Id: T0606500247
Action Type: Other
Date: 09/12/1991
Action: Leak Reported

Global Id: T0606500247
Action Type: RESPONSE
Date: 10/15/2007
Action: Monitoring Report - Quarterly

Global Id: T0606500247
Action Type: RESPONSE
Date: 04/15/2007
Action: Monitoring Report - Quarterly

Global Id: T0606500247
Action Type: RESPONSE
Date: 07/15/2007
Action: Monitoring Report - Quarterly

Global Id: T0606500247
Action Type: RESPONSE
Date: 03/12/2008
Action: Other Report / Document

Global Id: T0606500247
Action Type: REMEDIATION
Date: 11/06/2006
Action: Soil Vapor Extraction (SVE)

Global Id: T0606500247
Action Type: ENFORCEMENT
Date: 02/13/2007
Action: Staff Letter - #RCDEH 021307

Global Id: T0606500247
Action Type: ENFORCEMENT
Date: 08/07/2007
Action: Staff Letter - #RCDEH 080707

Global Id: T0606500247
Action Type: ENFORCEMENT
Date: 11/13/2007

**SHELL MAGNOLIA CORONA (Continued)** **S103820890**

Action: Technical Correspondence / Assistance / Other - #RCDEH111307

Global Id: T0606500247
Action Type: ENFORCEMENT
Date: 02/20/2008
Action: Staff Letter - #RCDEH 022008

Global Id: T0606500247
Action Type: ENFORCEMENT
Date: 02/20/2008
Action: Notice of Responsibility - #RCDEH 022008

Global Id: T0606500247
Action Type: ENFORCEMENT
Date: 05/11/2009
Action: Closure/No Further Action Letter - #RCDEH Closure

Global Id: T0606500247
Action Type: Other
Date: 09/12/1991
Action: Leak Stopped

Global Id: T0606500247
Action Type: RESPONSE
Date: 01/15/2009
Action: Monitoring Report - Quarterly

Global Id: T0606500247
Action Type: RESPONSE
Date: 04/15/2009
Action: Monitoring Report - Quarterly

Global Id: T0606500247
Action Type: RESPONSE
Date: 01/25/2008
Action: Other Report / Document

Global Id: T0606500247
Action Type: ENFORCEMENT
Date: 01/21/2009
Action: Staff Letter - #RCDEH012109

Global Id: T0606500247
Action Type: ENFORCEMENT
Date: 05/10/2009
Action: File review - #RCDEH Upload Site File 10/19/2010

Global Id: T0606500247
Action Type: RESPONSE
Date: 04/24/2009
Action: Well Destruction Report

Global Id: T0606500247
Action Type: RESPONSE
Date: 12/10/2008
Action: Request for Closure

**SHELL MAGNOLIA CORONA (Continued)** **S103820890**

Global Id: T0606500247
Action Type: RESPONSE
Date: 10/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0606500247
Action Type: ENFORCEMENT
Date: 09/19/2008
Action: File review

Global Id: T0606500247
Action Type: Other
Date: 09/12/1991
Action: Leak Discovery

Global Id: T0606500247
Action Type: RESPONSE
Date: 10/12/2007
Action: Other Report / Document

LUST:
Global Id: T0606500247
Status: Open - Case Begin Date
Status Date: 09/12/1991

Global Id: T0606500247
Status: Open - Site Assessment
Status Date: 09/12/1991

Global Id: T0606500247
Status: Open - Site Assessment
Status Date: 09/17/1991

Global Id: T0606500247
Status: Open - Remediation
Status Date: 11/06/2006

Global Id: T0606500247
Status: Open - Verification Monitoring
Status Date: 09/10/2007

Global Id: T0606500247
Status: Completed - Case Closed
Status Date: 05/11/2009

RIVERSIDE CO. LUST:
Name: SHELL MAGNOLIA CORONA
Address: 1205 MAGNOLIA AVE
City,State,Zip: CORONA, CA
Region: RIVERSIDE
Facility ID: 91850
Employee: Boltinghous-LOP
Site Closed: Yes
Case Type: Drinking Water Aquifer affected
Facility Status: closed/action completed

**SHELL MAGNOLIA CORONA (Continued)** **S103820890**

Casetype Decode: An Aquifer used for Drinking Water supply has been contaminated.
Fstatus Decode: Closed/Action completed

CORTESE:
Name: SHELL MAGNOLIA CORONA
Address: 1205 MAGNOLIA AVE
City,State,Zip: CORONA, CA 91719
Region: CORTESE
Envirostor Id: Not reported
Global ID: T0606500247
Site/Facility Type: LUST CLEANUP SITE
Cleanup Status: COMPLETED - CASE CLOSED
Status Date: Not reported
Site Code: Not reported
Latitude: Not reported
Longitude: Not reported
Owner: Not reported
Enf Type: Not reported
Swat R: Not reported
Flag: active
Order No: Not reported
Waste Discharge System No: Not reported
Effective Date: Not reported
Region 2: Not reported
WID Id: Not reported
Solid Waste Id No: Not reported
Waste Management Uit Name: Not reported
File Name: Active Open

CERS:
Name: SHELL MAGNOLIA CORONA
Address: 1205 MAGNOLIA AVE
City,State,Zip: CORONA, CA 91719
Site ID: 236232
CERS ID: T0606500247
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Local Agency Caseworker
Entity Name: SHARON BOLTINGHOUSE - RIVERSIDE COUNTY LOP
Entity Title: Not reported
Affiliation Address: 3880 LEMON ST SUITE 200
Affiliation City: RIVERSIDE
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 9519558980,

**O58** **HUNCO DEVELOPMENT** **LUST** **S110654904**
**SE** **TEMESCAL CANYON RD** **CERS** **N/A**
**1/4-1/2** **CORONA, CA 91720**
**0.370 mi.**
**1952 ft.** **Site 1 of 2 in cluster O**

**Relative:**
**Higher**

**Actual:**
**816 ft.**

LUST:

| | |
|---|---|
| Name: | HUNCO DEVELOPMENT |
| Address: | TEMESCAL CANYON RD |
| City,State,Zip: | CORONA, CA 91720 |
| Lead Agency: | RIVERSIDE COUNTY LOP |
| Case Type: | LUST Cleanup Site |
| Geo Track: | http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0606500133 |
| Global Id: | T0606500133 |
| Latitude: | 33.853727161792 |
| Longitude: | -117.539591512967 |
| Status: | Completed - Case Closed |
| Status Date: | 02/21/1990 |
| Case Worker: | SCB |
| RB Case Number: | 083301243T |
| Local Agency: | RIVERSIDE COUNTY LOP |
| File Location: | Local Agency Warehouse |
| Local Case Number: | 89358 |
| Potential Media Affect: | Soil |
| Potential Contaminants of Concern: | Diesel |
| Site History: | Not reported |

LUST:

| | |
|---|---|
| Global Id: | T0606500133 |
| Contact Type: | Regional Board Caseworker |
| Contact Name: | PATRICIA HANNON |
| Organization Name: | SANTA ANA RWQCB (REGION 8) |
| Address: | 3737 MAIN STREET, SUITE 500 |
| City: | RIVERSIDE |
| Email: | patricia.hannon@waterboards.ca.gov |
| Phone Number: | Not reported |

| | |
|---|---|
| Global Id: | T0606500133 |
| Contact Type: | Local Agency Caseworker |
| Contact Name: | SHARON BOLTINGHOUSE |
| Organization Name: | RIVERSIDE COUNTY LOP |
| Address: | 3880 LEMON ST SUITE 200 |
| City: | RIVERSIDE |
| Email: | sbolting@rivco.org |
| Phone Number: | 9519558980 |

LUST:

| | |
|---|---|
| Global Id: | T0606500133 |
| Action Type: | ENFORCEMENT |
| Date: | 02/20/1990 |
| Action: | File review - #RCDEH Upload Site File 6/2/2010 |

| | |
|---|---|
| Global Id: | T0606500133 |
| Action Type: | Other |
| Date: | 04/21/1989 |
| Action: | Leak Reported |

| | |
|---|---|
| Global Id: | T0606500133 |
| Action Type: | REMEDIATION |

**HUNCO DEVELOPMENT (Continued)** **S110654904**

Date: 06/02/1989
Action: Excavation

Global Id: T0606500133
Action Type: ENFORCEMENT
Date: 02/21/1990
Action: Closure/No Further Action Letter - #RCDEH0221

Global Id: T0606500133
Action Type: Other
Date: 04/18/1989
Action: Leak Stopped

Global Id: T0606500133
Action Type: Other
Date: 11/01/1988
Action: Leak Discovery

LUST:
Global Id: T0606500133
Status: Open - Case Begin Date
Status Date: 11/01/1988

Global Id: T0606500133
Status: Open - Site Assessment
Status Date: 01/20/1989

Global Id: T0606500133
Status: Open - Site Assessment
Status Date: 04/21/1989

Global Id: T0606500133
Status: Open - Remediation
Status Date: 06/02/1989

Global Id: T0606500133
Status: Completed - Case Closed
Status Date: 02/21/1990

CERS:
Name: HUNCO DEVELOPMENT
Address: TEMESCAL CANYON RD
City,State,Zip: CORONA, CA 91720
Site ID: 232265
CERS ID: T0606500133
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Local Agency Caseworker
Entity Name: SHARON BOLTINGHOUSE - RIVERSIDE COUNTY LOP
Entity Title: Not reported
Affiliation Address: 3880 LEMON ST SUITE 200
Affiliation City: RIVERSIDE
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported

**HUNCO DEVELOPMENT (Continued)** **S110654904**

| | |
|---|---|
| Affiliation Phone: | 9519558980, |
| Affiliation Type Desc: | Regional Board Caseworker |
| Entity Name: | PATRICIA HANNON - SANTA ANA RWQCB (REGION 8) |
| Entity Title: | Not reported |
| Affiliation Address: | 3737 MAIN STREET, SUITE 500 |
| Affiliation City: | RIVERSIDE |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | , |

---

**O59** **HUNCO DEVELOPMENT** **LUST** **S106117706**
**ESE** **TEMESCAL & CALIFORNIA AVE** **N/A**
**1/4-1/2** **CORONA, CA**
**0.391 mi.**
**2063 ft.** **Site 2 of 2 in cluster O**

**Relative:** RIVERSIDE CO. LUST:
**Higher**

| | |
|---|---|
| Name: | HUNCO DEVELOPMENT |
| Address: | TEMESCAL & CALIFORNIA AVE |
| City,State,Zip: | CORONA, CA |
| Region: | RIVERSIDE |
| Facility ID: | 89358 |
| Employee: | Rogers |
| Site Closed: | Yes |
| Case Type: | Soil only |
| Facility Status: | closed/action completed |
| Casetype Decode: | Soil only is impacted |
| Fstatus Decode: | Closed/Action completed |

**Actual:**
**813 ft.**

---

**60** **GARRETSON ELEMENTARY SCHOOL MODERNIZATION AREA** **ENVIROSTOR** **S112870884**
**WNW** **1650 GARRETSON AVENUE** **SCH** **N/A**
**1/2-1** **CORONA, CA 92879** **CERS**
**0.691 mi.**
**3647 ft.**

**Relative:** ENVIROSTOR:
**Higher**

| | |
|---|---|
| Name: | GARRETSON ELEMENTARY SCHOOL MODERNIZATION AREA |
| Address: | 1650 GARRETSON AVENUE |
| City,State,Zip: | CORONA, CA 92879 |
| Facility ID: | 60002288 |
| Status: | No Further Action |
| Status Date: | 06/30/2016 |
| Site Code: | 404923 |
| Site Type: | School Investigation |
| Site Type Detailed: | School |
| Acres: | 4.5 |
| NPL: | NO |
| Regulatory Agencies: | SMBRP |
| Lead Agency: | SMBRP |
| Program Manager: | Scarlett Zhai |
| Supervisor: | Shahir Haddad |
| Division Branch: | Southern California Schools & Brownfields Outreach |
| Assembly: | , 60 |

**Actual:**
**817 ft.**

**GARRETSON ELEMENTARY SCHOOL MODERNIZATION AREA (Continued)** **S112870884**

Senate: , 31
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: School District
Latitude: 33.86373
Longitude: -117.5624
APN: 109-110-018, 109-110-019
Past Use: AGRICULTURAL - ORCHARD
Potential COC: NONE SPECIFIED No Contaminants found
Confirmed COC: No Contaminants found
Potential Description: UE
Alias Name: 109-110-018
Alias Type: APN
Alias Name: 109-110-019
Alias Type: APN
Alias Name: 404923
Alias Type: Project Code (Site Code)
Alias Name: 60002288
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 02/16/2016
Comments: These are provided prior to PEA scoping meeting as historical documents. No action is required from DTSC.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 06/30/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 03/17/2016
Comments: DTSC concurred with the Adequacy of the PEA Tech Memo for implementation provided DTSC comments are incorporated in future work/reports.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 01/21/2016
Comments: Fully executed EOA sent to District via regular mail.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 09/21/2017
Comments: Closeout Form 1554 submitted on 10/31/16 and processed by CRBU on 9/21/17; closeout complete.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

**GARRETSON ELEMENTARY SCHOOL MODERNIZATION AREA (Continued)** **S112870884**

| | |
|---|---|
| Completed Document Type: | Correspondence |
| Completed Date: | 09/22/2017 |
| Comments: | DTSC sent letter regarding refund on 09/22/17. |
| Future Area Name: | Not reported |
| Future Sub Area Name: | Not reported |
| Future Document Type: | Not reported |
| Future Due Date: | Not reported |
| Schedule Area Name: | Not reported |
| Schedule Sub Area Name: | Not reported |
| Schedule Document Type: | Not reported |
| Schedule Due Date: | Not reported |
| Schedule Revised Date: | Not reported |

SCH:

| | |
|---|---|
| Name: | GARRETSON ELEMENTARY SCHOOL MODERNIZATION AREA |
| Address: | 1650 GARRETSON AVENUE |
| City,State,Zip: | CORONA, CA 92879 |
| Facility ID: | 60002288 |
| Site Type: | School Investigation |
| Site Type Detail: | School |
| Site Mgmt. Req.: | NONE SPECIFIED |
| Acres: | 4.5 |
| National Priorities List: | NO |
| Cleanup Oversight Agencies: | SMBRP |
| Lead Agency: | SMBRP |
| Lead Agency Description: | DTSC - Site Cleanup Program |
| Project Manager: | Scarlett Zhai |
| Supervisor: | Shahir Haddad |
| Division Branch: | Southern California Schools & Brownfields Outreach |
| Site Code: | 404923 |
| Assembly: | , 60 |
| Senate: | , 31 |
| Special Program Status: | Not reported |
| Status: | No Further Action |
| Status Date: | 06/30/2016 |
| Restricted Use: | NO |
| Funding: | School District |
| Latitude: | 33.86373 |
| Longitude: | -117.5624 |
| APN: | 109-110-018, 109-110-019 |
| Past Use: | AGRICULTURAL - ORCHARD |
| Potential COC: | NONE SPECIFIED, No Contaminants found |
| Confirmed COC: | No Contaminants found |
| Potential Description: | UE |
| Alias Name: | 109-110-018 |
| Alias Type: | APN |
| Alias Name: | 109-110-019 |
| Alias Type: | APN |
| Alias Name: | 404923 |
| Alias Type: | Project Code (Site Code) |
| Alias Name: | 60002288 |
| Alias Type: | Envirostor ID Number |

Completed Info:

| | |
|---|---|
| Completed Area Name: | PROJECT WIDE |

**GARRETSON ELEMENTARY SCHOOL MODERNIZATION AREA (Continued)** **S112870884**

Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 02/16/2016
Comments: These are provided prior to PEA scoping meeting as historical documents. No action is required from DTSC.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 06/30/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 03/17/2016
Comments: DTSC concurred with the Adequacy of the PEA Tech Memo for implementation provided DTSC comments are incorporated in future work/reports.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 01/21/2016
Comments: Fully executed EOA sent to District via regular mail.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 09/21/2017
Comments: Closeout Form 1554 submitted on 10/31/16 and processed by CRBU on 9/21/17; closeout complete.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 09/22/2017
Comments: DTSC sent letter regarding refund on 09/22/17.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

CERS:
Name: GARRETSON ELEMENTARY
Address: 1650 GARRETSON AVENUE
City,State,Zip: CORONA, CA 92879
Site ID: 607536
CERS ID: 60002288
CERS Description: School Investigation

**GARRETSON ELEMENTARY SCHOOL MODERNIZATION AREA (Continued)** **S112870884**

Affiliation:

| | |
|---|---|
| Affiliation Type Desc: | Lead Project Manager |
| Entity Name: | Scarlett Zhai |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | , |

| | |
|---|---|
| Affiliation Type Desc: | Supervisor |
| Entity Name: | Shahir Haddad |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | , |

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**61**
**North**
**1/2-1**
**0.767 mi.**
**4050 ft.**

**Relative:**
**Lower**

**Actual:**
**632 ft.**

**H & E ENGINEERING**
**958 EL SOBRANTE RD.**
**CORONA, CA 91720**

**ENVIROSTOR** **1000112568**
**CERS HAZ WASTE** **N/A**
**CERS TANKS**
**HAZNET**
**CERS**
**HWTS**

ENVIROSTOR:

| | |
|---|---|
| Name: | H & E ENGINEERING |
| Address: | 958 EL SOBRANTE RD. |
| City,State,Zip: | CORONA, CA 91720 |
| Facility ID: | 33340011 |
| Status: | Refer: Other Agency |
| Status Date: | 10/25/1994 |
| Site Code: | Not reported |
| Site Type: | Historical |
| Site Type Detailed: | * Historical |
| Acres: | Not reported |
| NPL: | NO |
| Regulatory Agencies: | NONE SPECIFIED |
| Lead Agency: | NONE SPECIFIED |
| Program Manager: | Not reported |
| Supervisor: | * Mmonroy |
| Division Branch: | Cleanup Cypress |
| Assembly: | 60 |
| Senate: | 31 |
| Special Program: | * RCRA 3012 - Past Haz Waste Disp Inven Site |
| Restricted Use: | NO |
| Site Mgmt Req: | NONE SPECIFIED |
| Funding: | Not reported |
| Latitude: | 33.87080 |
| Longitude: | -117.5460 |
| APN: | NONE SPECIFIED |
| Past Use: | NONE SPECIFIED |
| Potential COC: | * Metals - Other Inorganic Solid Waste * AQUEOUS SOLUTION WITH |

**H & E ENGINEERING (Continued)** **1000112568**

METALS * DETERGENT & SOAP * UNSPECIFIED ACID SOLUTION * WASTE OIL & MIXED OIL * AQUEOUS SOLUTION 2<PH<12.5, WITH REACTIVE ANIONS * OTHER PESTICIDE CONTAINERS, 30 GALLONS OR MORE Chromium VI

Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: HERMAN ENGINEERING & MFG (DMI FILE)
Alias Type: Alternate Name
Alias Name: CAD980892541
Alias Type: EPA Identification Number
Alias Name: CAC000169005
Alias Type: HWTS Identification Code
Alias Name: 33340011
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 03/22/1983
Comments: FACILITY IDENTIFIED ID FROM RWQCB COMPLAINTS/SPILLS 1982 PERSON REPORTING-RAY HOPPER,A FRIEND WHO WORKS AT H&E ENGINEERING TOLD RAY THAT H&E DISP OF POISONOUS CHEM INTO THEIR SEPTIC TANK. SEPTIC TANK HAS APPARENTLY BEEN CORRODED.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 10/25/1994
Comments: Site screening/file review determine NFA for DTSC.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

CERS HAZ WASTE:
Name: WEST COAST EQUIPMENT, LLC
Address: 958 EL SOBRANTE RD
City,State,Zip: CORONA, CA 92879
Site ID: 446650
CERS ID: 10778605
CERS Description: Hazardous Waste Generator

CERS TANKS:
Name: WEST COAST EQUIPMENT, LLC
Address: 958 EL SOBRANTE RD
City,State,Zip: CORONA, CA 92879
Site ID: 446650
CERS ID: 10778605
CERS Description: Aboveground Petroleum Storage

**H & E ENGINEERING (Continued)** **1000112568**

HAZNET:

| | |
|---|---|
| Name: | WEST COAST EQUIPMENT LLC |
| Address: | 958 EL SOBRANTE RD |
| Address 2: | Not reported |
| City,State,Zip: | CORONA, CA 92879 |
| Contact: | DOUG TORBETT |
| Telephone: | 9512562040 |
| Mailing Name: | Not reported |
| Mailing Address: | 958 EL SOBRANTE RD |
| Year: | 2019 |
| Gepaid: | CAL000378744 |
| TSD EPA ID: | AZR000520304 |
| CA Waste Code: | 352 - Other organic solids |
| Disposal Method: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Tons: | 1.92500 |
| Year: | 2019 |
| Gepaid: | CAL000378744 |
| TSD EPA ID: | CAT080013352 |
| CA Waste Code: | 221 - Waste oil and mixed oil |
| Disposal Method: | H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect |
| Tons: | 0.00000 |
| Year: | 2019 |
| Gepaid: | CAL000378744 |
| TSD EPA ID: | CAT080025711 |
| CA Waste Code: | 221 - Waste oil and mixed oil |
| Disposal Method: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Tons: | 0.00000 |
| Year: | 2018 |
| Gepaid: | CAL000378744 |
| TSD EPA ID: | AZR000501510 |
| CA Waste Code: | 352 - Other organic solids |
| Disposal Method: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Tons: | 0.25000 |
| Year: | 2018 |
| Gepaid: | CAL000378744 |
| TSD EPA ID: | AZR000520304 |
| CA Waste Code: | 352 - Other organic solids |
| Disposal Method: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Tons: | 0.42500 |
| Year: | 2017 |
| Gepaid: | CAL000378744 |
| TSD EPA ID: | AZR000501510 |
| CA Waste Code: | 352 - Other organic solids |
| Disposal Method: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Tons: | 0.3 |

**H & E ENGINEERING (Continued)** **1000112568**

Additional Info:

| | |
|---|---|
| Year: | 2017 |
| Gen EPA ID: | CAL000378744 |
| Shipment Date: | 20171110 |
| Creation Date: | 7/20/2018 18:30:15 |
| Receipt Date: | 20171117 |
| Manifest ID: | 016811493JJK |
| Trans EPA ID: | CAL000280876 |
| Trans Name: | ACTION WASTE OIL SERVICES |
| Trans 2 EPA ID: | CAD980585293 |
| Trans 2 Name: | INDUSTRIAL WASTE UTILIZATION |
| TSDF EPA ID: | AZR000501510 |
| Trans Name: | AA SYDCOL LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 352 - Other organic solids |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.25 |
| Waste Quantity: | 500 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20171110 |
| Creation Date: | 7/20/2018 18:30:15 |
| Receipt Date: | 20171117 |
| Manifest ID: | 016811493JJK |
| Trans EPA ID: | CAL000280876 |
| Trans Name: | ACTION WASTE OIL SERVICES |
| Trans 2 EPA ID: | CAD980585293 |
| Trans 2 Name: | INDUSTRIAL WASTE UTILIZATION |
| TSDF EPA ID: | AZR000501510 |
| Trans Name: | AA SYDCOL LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 352 - Other organic solids |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.05 |
| Waste Quantity: | 100 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

CERS:

| | |
|---|---|
| Name: | WEST COAST EQUIPMENT, LLC |

**H & E ENGINEERING (Continued)** **1000112568**

Address: 958 EL SOBRANTE RD
City,State,Zip: CORONA, CA 92879
Site ID: 446650
CERS ID: 10778605
CERS Description: Chemical Storage Facilities

Violations:

Site ID: 446650
Site Name: West Coast Equipment, LLC
Violation Date: 06-03-2020
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes: Returned to compliance on 06/04/2020. OBSERVATION: Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date. CORRECTIVE ACTION: Update and submit a complete hazardous materials business plan into CERS for review and approval BY 7/03/20.
Violation Division: Corona Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 446650
Site Name: West Coast Equipment, LLC
Violation Date: 04-05-2019
Citation: HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4)
Violation Description: Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years.
Violation Notes: Returned to compliance on 05/17/2019.
Violation Division: Corona Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 446650
Site Name: West Coast Equipment, LLC
Violation Date: 04-05-2019
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 03/18/2020. Chemical inventory for propane storage is not correct. Update largest container size to 100 gallons. * CERS submittal dated 4/29/19 shows the largest container to be 100 gal.-DA*
Violation Division: Corona Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 446650
Site Name: West Coast Equipment, LLC
Violation Date: 04-05-2019
Citation: Un-Specified

**H & E ENGINEERING (Continued)** **1000112568**

| | |
|---|---|
| Violation Description: | Business Plan Program - Operations/Maintenance - General Local Ordinance |
| Violation Notes: | Returned to compliance on 05/17/2019. No permit on site. Contact Corona Fire Dept. (Denise) at 736-2459 to obtain your hazardous materials permit. |
| Violation Division: | Corona Fire Department |
| Violation Program: | HMRRP |
| Violation Source: | CERS, |
| | |
| Site ID: | 446650 |
| Site Name: | West Coast Equipment, LLC |
| Violation Date: | 06-03-2020 |
| Citation: | HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1) |
| Violation Description: | Failure to complete and electronically submit a site map with all required content. |
| Violation Notes: | Returned to compliance on 06/04/2020. OBSERVATION: Failure to complete and electronically submit a site map with all required content. CORRECTIVE ACTION: Update your site map and submit into CERS, ensure all required elements are included: North Orientation, Loading areas, Internal Roads, Adjacent streets, Storm and sewer drains, Access and exit points, Emergency shutoffs, Evacuation staging areas, Hazardous Materials handling and storage locations and, Emergency Response Equipment (hydrants, riser, alarm panel, extinguishers, spill kit, etc.). All text must be oriented in the same direction and a legend is required if using symbols. If hand drawn use a straight edge. Submit by 7/03/20. |
| Violation Division: | Corona Fire Department |
| Violation Program: | HMRRP |
| Violation Source: | CERS, |
| | |
| Site ID: | 446650 |
| Site Name: | West Coast Equipment, LLC |
| Violation Date: | 06-03-2020 |
| Citation: | HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1) |
| Violation Description: | Failure to establish and electronically submit an adequate emergency response plan and procedures for a release or threatened release of a hazardous material. |
| Violation Notes: | Returned to compliance on 06/04/2020. OBSERVATION: Failure to establish and electronically submit an adequate emergency response plan and procedures for a release or threatened release of a hazardous material. CORRECTIVE ACTION: Update your emergency response / contingency plan and submit into CERS for review and approval by 7/03/20 |
| Violation Division: | Corona Fire Department |
| Violation Program: | HMRRP |
| Violation Source: | CERS, |
| | |
| Site ID: | 446650 |
| Site Name: | West Coast Equipment, LLC |
| Violation Date: | 06-03-2020 |
| Citation: | HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1) |
| Violation Description: | Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities. |

**H & E ENGINEERING (Continued)** **1000112568**

Violation Notes: Returned to compliance on 06/04/2020. OBSERVATION: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities. CORRECTIVE ACTION: Update Hazardous materials inventories on site and submit into CERS for review and approval by 7/03/20.
Violation Division: Corona Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Evaluation:
Eval General Type: Other/Unknown
Eval Date: 06-03-2020
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: E inspect - Submitted on 6/4/20 - Pending corrections.
Eval Division: Corona Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-05-2019
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Corona Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 05-17-2019
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Corona Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Enforcement Action:
Site ID: 446650
Site Name: West Coast Equipment, LLC
Site Address: 958 EL SOBRANTE RD
Site City: CORONA
Site Zip: 92879
Enf Action Date: 04-05-2019
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Corona Fire Department
Enf Action Program: UNSPEC
Enf Action Source: CERS,

Coordinates:
Site ID: 446650
Facility Name: West Coast Equipment, LLC
Env Int Type Code: APSA
Program ID: 10778605

**H & E ENGINEERING (Continued)** **1000112568**

| | |
|---|---|
| Coord Name: | Not reported |
| Ref Point Type Desc: | Center of a facility or station., |
| Latitude: | 33.870820 |
| Longitude: | -117.546040 |

Affiliation:

| | |
|---|---|
| Affiliation Type Desc: | CUPA District |
| Entity Name: | Riverside Cnty Env Health |
| Entity Title: | Not reported |
| Affiliation Address: | 4065 County Circle Drive, Room 104 |
| Affiliation City: | Riverside |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 92503 |
| Affiliation Phone: | (951) 358-5055, |

| | |
|---|---|
| Affiliation Type Desc: | Environmental Contact |
| Entity Name: | Shaun Flanagan |
| Entity Title: | Not reported |
| Affiliation Address: | 958 El Sobrante Rd |
| Affiliation City: | Corona |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 92879 |
| Affiliation Phone: | , |

| | |
|---|---|
| Affiliation Type Desc: | Identification Signer |
| Entity Name: | Shaun Flanagan |
| Entity Title: | President |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | , |

| | |
|---|---|
| Affiliation Type Desc: | Legal Owner |
| Entity Name: | Shaun Flanagan |
| Entity Title: | Not reported |
| Affiliation Address: | 958 El Sobrante Rd |
| Affiliation City: | Corona |
| Affiliation State: | CA |
| Affiliation Country: | United States |
| Affiliation Zip: | 92879 |
| Affiliation Phone: | (951) 256-2040, |

| | |
|---|---|
| Affiliation Type Desc: | Operator |
| Entity Name: | West Coast Equipment, LLC |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | (951) 256-2040, |

| | |
|---|---|
| Affiliation Type Desc: | Document Preparer |

**H & E ENGINEERING (Continued)** **1000112568**

| | |
|---|---|
| Entity Name: | Shaun Flanagan |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | , |
| | |
| Affiliation Type Desc: | Facility Mailing Address |
| Entity Name: | Mailing Address |
| Entity Title: | Not reported |
| Affiliation Address: | 958 El Sobrante Road |
| Affiliation City: | Corona |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 92879 |
| Affiliation Phone: | , |
| | |
| Affiliation Type Desc: | Parent Corporation |
| Entity Name: | West Coast Equipment, LLC |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | , |

HWTS:

| | |
|---|---|
| Name: | WEST COAST EQUIPMENT LLC |
| Address: | 958 EL SOBRANTE RD |
| Address 2: | Not reported |
| City,State,Zip: | CORONA, CA 92879 |
| EPA ID: | CAL000378744 |
| Inactive Date: | Not reported |
| Create Date: | 10/03/2012 |
| Last Act Date: | Not reported |
| Mailing Name: | Not reported |
| Mailing Address: | 958 EL SOBRANTE RD |
| Mailing Address 2: | Not reported |
| Mailing City,State,Zip: | CORONA, CA 92879 |
| Owner Name: | WEST COAST EQUIPMENT LLC |
| Owner Address: | 958 EL SOBRANTE RD |
| Owner Address 2: | Not reported |
| Owner City,State,Zip: | CORONA, CA 92879 |
| Contact Name: | DOUG TORBETT |
| Contact Address: | 958 EL SOBRANTE RD |
| Contact Address 2: | Not reported |
| City,State,Zip: | CORONA, CA 92879 |
| Facility Status: | Active |
| Facility Type: | PERMANENT |
| Category: | STATE |
| Latitude: | 33.8708 |
| Longitude: | -117.54603 |

**H & E ENGINEERING (Continued)** **1000112568**

NAICS:

| | |
|---|---|
| EPA ID: | CAL000378744 |
| Create Date: | 2012-10-03 15:41:46.450 |
| NAICS Code: | 33651 |
| NAICS Description: | Railroad Rolling Stock Manufacturing |
| Issued EPA ID Date: | 2012-10-03 15:41:46.40300 |
| Inactive Date: | Not reported |
| Facility Name: | WEST COAST EQUIPMENT LLC |
| Facility Address: | 958 EL SOBRANTE RD |
| Facility Address 2: | Not reported |
| Facility City: | CORONA |
| Facility County: | Not reported |
| Facility State: | CA |
| Facility Zip: | 92879 |

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**62** **LINCOLN ALTERNATIVE ELEMENTARY SCHOOL** **ENVIROSTOR** **S118757175**
**NW** **1041 FULLERTON ROAD** **SCH** **N/A**
**1/2-1** **CORONA, CA 92879** **CERS**
**0.789 mi.**
**4164 ft.**

**Relative:**
**Lower**

**Actual:**
**724 ft.**

ENVIROSTOR:

| | |
|---|---|
| Name: | LINCOLN ALTERNATIVE ELEMENTARY SCHOOL |
| Address: | 1041 FULLERTON ROAD |
| City,State,Zip: | CORONA, CA 92879 |
| Facility ID: | 60000845 |
| Status: | No Action Required |
| Status Date: | 03/04/2016 |
| Site Code: | 404782 |
| Site Type: | School Investigation |
| Site Type Detailed: | School |
| Acres: | 2.6 |
| NPL: | NO |
| Regulatory Agencies: | SMBRP |
| Lead Agency: | SMBRP |
| Program Manager: | Scarlett Zhai |
| Supervisor: | Shahir Haddad |
| Division Branch: | Southern California Schools & Brownfields Outreach |
| Assembly: | 60 |
| Senate: | 31 |
| Special Program: | Not reported |
| Restricted Use: | NO |
| Site Mgmt Req: | NONE SPECIFIED |
| Funding: | School District |
| Latitude: | 33.87025 |
| Longitude: | -117.5555 |
| APN: | 111-170-032, 111170032 |
| Past Use: | AGRICULTURAL - ORCHARD |
| Potential COC: | NONE SPECIFIED No Contaminants found |
| Confirmed COC: | No Contaminants found |
| Potential Description: | NMA |
| Alias Name: | 111-170-032 |
| Alias Type: | APN |
| Alias Name: | 111170032 |
| Alias Type: | APN |
| Alias Name: | 404782 |

**LINCOLN ALTERNATIVE ELEMENTARY SCHOOL (Continued)** **S118757175**

Alias Type: Project Code (Site Code)
Alias Name: 60000845
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 05/15/2008
Comments: DTSC conditionally approved the PEA Tech Memo

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 09/08/2008
Comments: DTSC approved the site with No Further Action determination

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 09/04/2008
Comments: Site visit conducted by DTSC staff.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 03/19/2008
Comments: Rec'd executed EOA. Mailed overnight to the district.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 03/04/2016
Comments: DTSC concurs that no action is required at the site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 10/15/2008
Comments: DTSC issued a CRU memo.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 03/07/2017
Comments: Closeout Form 1554 submitted 3/6/17 and processed by CRBU on 3/7/17; closeout complete.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

**LINCOLN ALTERNATIVE ELEMENTARY SCHOOL (Continued)** **S118757175**

SCH:

| | |
|---|---|
| Name: | LINCOLN ALTERNATIVE ELEMENTARY SCHOOL |
| Address: | 1041 FULLERTON ROAD |
| City,State,Zip: | CORONA, CA 92879 |
| Facility ID: | 60000845 |
| Site Type: | School Investigation |
| Site Type Detail: | School |
| Site Mgmt. Req.: | NONE SPECIFIED |
| Acres: | 2.6 |
| National Priorities List: | NO |
| Cleanup Oversight Agencies: | SMBRP |
| Lead Agency: | SMBRP |
| Lead Agency Description: | DTSC - Site Cleanup Program |
| Project Manager: | Scarlett Zhai |
| Supervisor: | Shahir Haddad |
| Division Branch: | Southern California Schools & Brownfields Outreach |
| Site Code: | 404782 |
| Assembly: | 60 |
| Senate: | 31 |
| Special Program Status: | Not reported |
| Status: | No Action Required |
| Status Date: | 03/04/2016 |
| Restricted Use: | NO |
| Funding: | School District |
| Latitude: | 33.87025 |
| Longitude: | -117.5555 |
| APN: | 111-170-032, 111170032 |
| Past Use: | AGRICULTURAL - ORCHARD |
| Potential COC: | NONE SPECIFIED, No Contaminants found |
| Confirmed COC: | No Contaminants found |
| Potential Description: | NMA |
| Alias Name: | 111-170-032 |
| Alias Type: | APN |
| Alias Name: | 111170032 |
| Alias Type: | APN |
| Alias Name: | 404782 |
| Alias Type: | Project Code (Site Code) |
| Alias Name: | 60000845 |
| Alias Type: | Envirostor ID Number |

Completed Info:

| | |
|---|---|
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Preliminary Endangerment Assessment Workplan |
| Completed Date: | 05/15/2008 |
| Comments: | DTSC conditionally approved the PEA Tech Memo |
| | |
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Preliminary Endangerment Assessment Report |
| Completed Date: | 09/08/2008 |
| Comments: | DTSC approved the site with No Further Action determination |
| | |
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Site Inspections/Visit (Non LUR) |

**LINCOLN ALTERNATIVE ELEMENTARY SCHOOL (Continued)** **S118757175**

Completed Date: 09/04/2008
Comments: Site visit conducted by DTSC staff.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 03/19/2008
Comments: Rec'd executed EOA. Mailed overnight to the district.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 03/04/2016
Comments: DTSC concurs that no action is required at the site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 10/15/2008
Comments: DTSC issued a CRU memo.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 03/07/2017
Comments: Closeout Form 1554 submitted 3/6/17 and processed by CRBU on 3/7/17; closeout complete.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

CERS:
Name: LINCOLN ALTERNATIVE
Address: 1041 FULLERTON ROAD
City,State,Zip: CORONA, CA 92879
Site ID: 608314
CERS ID: 60000845
CERS Description: School Investigation

Affiliation:
Affiliation Type Desc: Lead Project Manager
Entity Name: Scarlett Zhai
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

**LINCOLN ALTERNATIVE ELEMENTARY SCHOOL (Continued)** **S118757175**

| | |
|---|---|
| Affiliation Type Desc: | Supervisor |
| Entity Name: | Shahir Haddad |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | , |

---

**63**
**NE**
**1/2-1**
**0.802 mi.**
**4232 ft.**

**Relative:**
**Lower**

**Actual:**
**648 ft.**

**ANACO, AN UNINCORPORATED DIVISION OF MCWANE, INC.**
**1375 MAGNOLIA AVENUE**
**CORONA, CA 92879**

**RCRA-LQG** **1000434760**
**ENVIROSTOR** **CAD063115133**
**DEED**
**CHMIRS**
**ICIS**
**EMI**

RCRA-LQG:

| | |
|---|---|
| Date Form Received by Agency: | 20220217 |
| Handler Name: | ANACO, AN UNINCORPORATED DIVISION OF MCWANE, INC. |
| Handler Address: | 1375 MAGNOLIA AVENUE |
| Handler City,State,Zip: | CORONA, CA 92879 |
| EPA ID: | CAD063115133 |
| Contact Name: | LARRY FUSCHER |
| Contact Address: | EL CAMINO AVENUE |
| Contact City,State,Zip: | CORONA, CA 92879 |
| Contact Telephone: | 951-268-3316 |
| Contact Fax: | Not reported |
| Contact Email: | LARRY.FUSCHER@ANACO-HUSKY.COM |
| Contact Title: | CSP |
| EPA Region: | 09 |
| Land Type: | Private |
| Federal Waste Generator Description: | Large Quantity Generator |
| Non-Notifier: | Not reported |
| Biennial Report Cycle: | 2021 |
| Accessibility: | Not reported |
| Active Site Indicator: | Handler Activities |
| State District Owner: | Not reported |
| State District: | Not reported |
| Mailing Address: | EL CAMINO AVENUE |
| Mailing City,State,Zip: | CORONA, CA 92879 |
| Owner Name: | MCWANE, INC. |
| Owner Type: | Private |
| Operator Name: | MCWANE, INC. (DBA ANACO) |
| Operator Type: | Private |
| Short-Term Generator Activity: | No |
| Importer Activity: | No |
| Mixed Waste Generator: | No |
| Transporter Activity: | No |
| Transfer Facility Activity: | No |
| Recycler Activity with Storage: | No |
| Small Quantity On-Site Burner Exemption: | No |
| Smelting Melting and Refining Furnace Exemption: | No |
| Underground Injection Control: | No |
| Off-Site Waste Receipt: | No |
| Universal Waste Indicator: | No |
| Universal Waste Destination Facility: | No |

**ANACO, AN UNINCORPORATED DIVISION OF MCWANE, INC. (Continued)** **1000434760**

| | |
|---|---|
| Federal Universal Waste: | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site State-Reg Handler: | --- |
| Federal Facility Indicator: | Not reported |
| Hazardous Secondary Material Indicator: | N |
| Sub-Part K Indicator: | Not reported |
| Commercial TSD Indicator: | No |
| Treatment Storage and Disposal Type: | Not reported |
| 2018 GPRA Permit Baseline: | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | Not on the Baseline |
| Permit Renewals Workload Universe: | Not reported |
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 20220613 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | No |
| Manifest Broker: | No |
| Sub-Part P Indicator: | No |

Biennial: List of Years
Year: 2019

Click Here for Biennial Reporting System Data:
Year: 2007

Click Here for Biennial Reporting System Data:
Year: 2005

Click Here for Biennial Reporting System Data:

Hazardous Waste Summary:

**ANACO, AN UNINCORPORATED DIVISION OF MCWANE, INC. (Continued)** **1000434760**

Waste Code: D001
Waste Description: IGNITABLE WASTE

Waste Code: D005
Waste Description: BARIUM

Waste Code: D006
Waste Description: CADMIUM

Waste Code: D007
Waste Description: CHROMIUM

Waste Code: D008
Waste Description: LEAD

Waste Code: D011
Waste Description: SILVER

Waste Code: D018
Waste Description: BENZENE

Waste Code: D032
Waste Description: HEXACHLOROBENZENE

Waste Code: D035
Waste Description: METHYL ETHYL KETONE

Waste Code: F003
Waste Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: F005
Waste Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Handler - Owner Operator:
Owner/Operator Indicator: Owner
Owner/Operator Name: MCWANE, INC.
Legal Status: Private
Date Became Current: 19850601
Date Ended Current: Not reported
Owner/Operator Address: 1143 VANDERBILT RD
Owner/Operator City,State,Zip: BIRMINGHAM, AL 35234
Owner/Operator Telephone: 205-323-8282

**ANACO, AN UNINCORPORATED DIVISION OF MCWANE, INC. (Continued)** **1000434760**

| | |
|---|---|
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |
| | |
| Owner/Operator Indicator: | Operator |
| Owner/Operator Name: | CLOW VALVE |
| Legal Status: | Private |
| Date Became Current: | 19721101 |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | Not reported |
| Owner/Operator City,State,Zip: | Not reported |
| Owner/Operator Telephone: | Not reported |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |
| | |
| Owner/Operator Indicator: | Operator |
| Owner/Operator Name: | CLOW VALVE |
| Legal Status: | Private |
| Date Became Current: | 19721101 |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 1375 MAGNOLIA AVENUE |
| Owner/Operator City,State,Zip: | CORONA, CA 92879 |
| Owner/Operator Telephone: | Not reported |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |
| | |
| Owner/Operator Indicator: | Operator |
| Owner/Operator Name: | MCWANE, INC. (DBA ANACO) |
| Legal Status: | Private |
| Date Became Current: | 20220217 |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 1001 EL CAMINO AVENUE |
| Owner/Operator City,State,Zip: | CORONA, CA 92879 |
| Owner/Operator Telephone: | 951-268-3316 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | LARRY.FUSCHER@ANACO-HUSKY.COM |
| | |
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | MCWANE, INC. |
| Legal Status: | Private |
| Date Became Current: | 19850628 |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 1201 VANDERBILT RD |
| Owner/Operator City,State,Zip: | BIRMINGHAM, AL 35243 |
| Owner/Operator Telephone: | Not reported |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |
| | |
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | MCWANE, INC. |
| Legal Status: | Private |
| Date Became Current: | 19850101 |
| Date Ended Current: | Not reported |

**ANACO, AN UNINCORPORATED DIVISION OF MCWANE, INC. (Continued)** **1000434760**

| | |
|---|---|
| Owner/Operator Address: | P.O. BOX 43327 |
| Owner/Operator City,State,Zip: | BIRMINGHAM, AL 35223 |
| Owner/Operator Telephone: | Not reported |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |
| | |
| Owner/Operator Indicator: | Operator |
| Owner/Operator Name: | NOT REQUIRED |
| Legal Status: | Private |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | NOT REQUIRED |
| Owner/Operator City,State,Zip: | NOT REQUIRED, ME 99999 |
| Owner/Operator Telephone: | 415-555-1212 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |
| | |
| Owner/Operator Indicator: | Operator |
| Owner/Operator Name: | CLOW VALVE |
| Legal Status: | Private |
| Date Became Current: | 19721101 |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 1375 MAGNOLIA AVENUE |
| Owner/Operator City,State,Zip: | CORONA, CA 92879 |
| Owner/Operator Telephone: | Not reported |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |
| | |
| Owner/Operator Indicator: | Operator |
| Owner/Operator Name: | CLOW VALVE |
| Legal Status: | Private |
| Date Became Current: | 19721101 |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 1375 MAGNOLIA AVENUE |
| Owner/Operator City,State,Zip: | CORONA, CA 92879 |
| Owner/Operator Telephone: | Not reported |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |
| | |
| Owner/Operator Indicator: | Operator |
| Owner/Operator Name: | CLOW VALVE COMPANY |
| Legal Status: | Private |
| Date Became Current: | 19720101 |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | Not reported |
| Owner/Operator City,State,Zip: | Not reported |
| Owner/Operator Telephone: | Not reported |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |
| | |
| Owner/Operator Indicator: | Operator |
| Owner/Operator Name: | CLOW VALVE COMPANY |

**ANACO, AN UNINCORPORATED DIVISION OF MCWANE, INC. (Continued)** **1000434760**

| | |
|---|---|
| Legal Status: | Private |
| Date Became Current: | 19720101 |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | Not reported |
| Owner/Operator City,State,Zip: | Not reported |
| Owner/Operator Telephone: | Not reported |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

| | |
|---|---|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | MCWANE, INC. |
| Legal Status: | Private |
| Date Became Current: | 19850601 |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 1143 VANDERBILT RD |
| Owner/Operator City,State,Zip: | BIRMINGHAM, AL 35234 |
| Owner/Operator Telephone: | 256-388-0001 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | LARRY.BOWERS@MCWANE.COM |

| | |
|---|---|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | MCWANE, INC. |
| Legal Status: | Private |
| Date Became Current: | 19850601 |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 1143 VANDERBILT RD |
| Owner/Operator City,State,Zip: | BIRMINGHAM, AL 35234 |
| Owner/Operator Telephone: | 205-323-8282 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

| | |
|---|---|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | MCWANE, INC. |
| Legal Status: | Private |
| Date Became Current: | 19850601 |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 1143 VANDERBILT RD |
| Owner/Operator City,State,Zip: | BIRMINGHAM, AL 35234 |
| Owner/Operator Telephone: | 205-323-8282 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

| | |
|---|---|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | MCWANE, INC. |
| Legal Status: | Private |
| Date Became Current: | 19850628 |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 1201 VANDERBILT RD |
| Owner/Operator City,State,Zip: | BIRMINGHAM, AL 35243 |
| Owner/Operator Telephone: | Not reported |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

**ANACO, AN UNINCORPORATED DIVISION OF MCWANE, INC. (Continued)** **1000434760**

| | |
|---|---|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | MCWANE, INC. |
| Legal Status: | Private |
| Date Became Current: | 19850601 |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 1143 VANDERBILT RD |
| Owner/Operator City,State,Zip: | BIRMINGHAM, AL 35234 |
| Owner/Operator Telephone: | 205-323-8282 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

| | |
|---|---|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | CLOW CORPORATION |
| Legal Status: | Private |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | NOT REQUIRED |
| Owner/Operator City,State,Zip: | NOT REQUIRED, ME 99999 |
| Owner/Operator Telephone: | 415-555-1212 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

| | |
|---|---|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | MCWANE, INC. |
| Legal Status: | Private |
| Date Became Current: | 19850601 |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 1143 VANDERBILT RD |
| Owner/Operator City,State,Zip: | BIRMINGHAM, AL 35234 |
| Owner/Operator Telephone: | 205-323-8282 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

| | |
|---|---|
| Owner/Operator Indicator: | Operator |
| Owner/Operator Name: | MCWANE, INC. (DBA ANACO) |
| Legal Status: | Private |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 1001 EL CAMINO AVENUE |
| Owner/Operator City,State,Zip: | CORONA, CA 92879 |
| Owner/Operator Telephone: | Not reported |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

| | |
|---|---|
| Owner/Operator Indicator: | Operator |
| Owner/Operator Name: | CLOW VALVE |
| Legal Status: | Private |
| Date Became Current: | 19720101 |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | Not reported |
| Owner/Operator City,State,Zip: | Not reported |
| Owner/Operator Telephone: | Not reported |
| Owner/Operator Telephone Ext: | Not reported |

**ANACO, AN UNINCORPORATED DIVISION OF MCWANE, INC. (Continued)** **1000434760**

Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20200220
Handler Name: CLOW VALVE, INC.
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

Receive Date: 20220217
Handler Name: ANACO, AN UNINCORPORATED DIVISION OF MCWANE, INC.
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

Receive Date: 19960901
Handler Name: CLOW CORP
Federal Waste Generator Description: Small Quantity Generator
State District Owner: CA
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20060301
Handler Name: CLOW VALLEY COMPANY
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19800814

**ANACO, AN UNINCORPORATED DIVISION OF MCWANE, INC. (Continued)** **1000434760**

Handler Name: CLOW CORP
Federal Waste Generator Description: Large Quantity Generator
State District Owner: CA
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20160127
Handler Name: CLOW VALVE, INC.
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20180920
Handler Name: CLOW VALVE, INC.
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

Receive Date: 20190820
Handler Name: CLOW VALVE, INC.
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

Receive Date: 20210323
Handler Name: ANACO, AN UNINCORPORATED DIVISION OF MCWANE, INC.
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No

**ANACO, AN UNINCORPORATED DIVISION OF MCWANE, INC. (Continued)** **1000434760**

| | |
|---|---|
| Recognized Trader Exporter: | No |
| Spent Lead Acid Battery Importer: | No |
| Spent Lead Acid Battery Exporter: | No |
| Current Record: | No |
| Non Storage Recycler Activity: | No |
| Electronic Manifest Broker: | No |

| | |
|---|---|
| Receive Date: | 20060301 |
| Handler Name: CLOW VALLEY COMPANY | |
| Federal Waste Generator Description: | Large Quantity Generator |
| State District Owner: | Not reported |
| Large Quantity Handler of Universal Waste: | No |
| Recognized Trader Importer: | No |
| Recognized Trader Exporter: | No |
| Spent Lead Acid Battery Importer: | No |
| Spent Lead Acid Battery Exporter: | No |
| Current Record: | No |
| Non Storage Recycler Activity: | Not reported |
| Electronic Manifest Broker: | Not reported |

| | |
|---|---|
| Receive Date: | 20080301 |
| Handler Name: CLOW VALVE, INC. | |
| Federal Waste Generator Description: | Large Quantity Generator |
| State District Owner: | Not reported |
| Large Quantity Handler of Universal Waste: | No |
| Recognized Trader Importer: | No |
| Recognized Trader Exporter: | No |
| Spent Lead Acid Battery Importer: | No |
| Spent Lead Acid Battery Exporter: | No |
| Current Record: | No |
| Non Storage Recycler Activity: | Not reported |
| Electronic Manifest Broker: | Not reported |

List of NAICS Codes and Descriptions:

| | |
|---|---|
| NAICS Code: | 331511 |
| NAICS Description: | IRON FOUNDRIES |

| | |
|---|---|
| NAICS Code: | 332911 |
| NAICS Description: | INDUSTRIAL VALVE MANUFACTURING |

| | |
|---|---|
| NAICS Code: | 332919 |
| NAICS Description: | OTHER METAL VALVE AND PIPE FITTING MANUFACTURING |

| | |
|---|---|
| NAICS Code: | 332999 |
| NAICS Description: | ALL OTHER MISCELLANEOUS FABRICATED METAL PRODUCT MANUFACTURING |

Facility Has Received Notices of Violation:

| | |
|---|---|
| Found Violation: | No |
| Agency Which Determined Violation: | Not reported |
| Violation Short Description: | Not reported |
| Date Violation was Determined: | Not reported |
| Actual Return to Compliance Date: | Not reported |
| Return to Compliance Qualifier: | Not reported |
| Violation Responsible Agency: | Not reported |
| Scheduled Compliance Date: | Not reported |
| Enforcement Identifier: | Not reported |

**ANACO, AN UNINCORPORATED DIVISION OF MCWANE, INC. (Continued)** **1000434760**

Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Evaluation Action Summary:
Evaluation Date: 19920728
Evaluation Responsible Agency: State Contractor/Grantee
Found Violation: No
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: R9STA
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: Not reported
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

ENVIROSTOR:
Name: RICH MANUFACTURING COMPANY OF CALIF #3
Address: 1375 MAGNOLIA AVENUE
City,State,Zip: CORONA, CA 91720
Facility ID: 33330008
Status: Refer: Other Agency
Status Date: 10/28/1994
Site Code: Not reported
Site Type: Historical
Site Type Detailed: * Historical
Acres: Not reported
NPL: NO

**ANACO, AN UNINCORPORATED DIVISION OF MCWANE, INC. (Continued)** **1000434760**

Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: * Mmonroy
Division Branch: Cleanup Cypress
Assembly: 60
Senate: 31
Special Program: * CERC2
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 33.86987
Longitude: -117.5377
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: * HOUSEHOLD WASTES * Metals - Other Inorganic Solid Waste * AQUEOUS SOLUTION WITH METALS * UNSPECIFIED AQUEOUS SOLUTION * OTHER PESTICIDE CONTAINERS, 30 GALLONS OR MORE
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CLOW COMPANY - CORONA PLANT
Alias Type: Alternate Name
Alias Name: CAD982359820
Alias Type: EPA Identification Number
Alias Name: CAD063115133
Alias Type: HWTS Identification Code
Alias Name: 33330008
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 10/28/1994
Comments: SITE SCREENING/FILE REVIEW DETERMINE NFA FOR DTSC.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 04/26/1988
Comments: PRELIM ASSESS DONE SI LOW BASED ON HISTORICAL OPERATIONS & DISPOSAL METHODS

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 03/24/1987
Comments: SITE SCREENING DONE PA RECOM BASED ON LACK OF INFO ON EXACT OPERATION AND WASTES PRESENT

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 01/13/1983
Comments: FACILITY IDENTIFIED ID FROM OLD PHONE BOOK SEARCH -1972 IRON FOUNDRY

Future Area Name: Not reported
Future Sub Area Name: Not reported

**ANACO, AN UNINCORPORATED DIVISION OF MCWANE, INC. (Continued)** **1000434760**

Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

Name: CLOW VALVE COMPANY
Address: 1375 MAGNOLIA AVENUE
City,State,Zip: CORONA, CA 92879
Facility ID: 71003713
Status: Active
Status Date: 03/16/2016
Site Code: 600876
Site Type: Tiered Permit
Site Type Detailed: Tiered Permit
Acres: 16
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Irena Edwards
Supervisor: Eileen Mananian
Division Branch: Cleanup Cypress
Assembly: 60
Senate: 31
Special Program: Not reported
Restricted Use: YES
Site Mgmt Req: NONE SPECIFIED
Funding: Responsible Party
Latitude: 33.86988
Longitude: -117.5377
APN: 107030022, 107030023, 107070072
Past Use: FOUNDRY, MANUFACTURING - METAL, METAL FINISHING
Potential COC: Polychlorinated biphenyls (PCBs Lead
Confirmed COC: Lead Polychlorinated biphenyls (PCBs
Potential Description: SOIL
Alias Name: 107030022
Alias Type: APN
Alias Name: 107030023
Alias Type: APN
Alias Name: 107070072
Alias Type: APN
Alias Name: CAD063115133
Alias Type: EPA Identification Number
Alias Name: 110002464887
Alias Type: EPA (FRS #)
Alias Name: 600876
Alias Type: Project Code (Site Code)
Alias Name: 71003713
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 07/06/2017
Comments: Completed

**ANACO, AN UNINCORPORATED DIVISION OF MCWANE, INC. (Continued)** **1000434760**

Completed Area Name: Former Iron Foundry Sand Cleanup Area
Completed Sub Area Name: Not reported
Completed Document Type: Interim Measures Implementation Report
Completed Date: 04/21/2016
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Corrective Measure Implementation Workplan
Completed Date: 08/13/2019
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 09/08/2021
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Plan
Completed Date: 08/10/2021
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 08/11/2021
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Soils Management Plan
Completed Date: 08/10/2021
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 03/06/2002
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 12/16/2021
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Corrective Measures Proposal
Completed Date: 05/16/2019
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report

**ANACO, AN UNINCORPORATED DIVISION OF MCWANE, INC. (Continued)** **1000434760**

Completed Date: 05/16/2019
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Corrective Measure Implementation Workplan
Completed Date: 03/30/2020
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Plan
Completed Date: 02/12/2020
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Compliance Verification
Completed Date: 12/12/2000
Comments: Inspection report sent on 12/12/2000

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 07/15/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase I Verification
Completed Date: 10/09/2002
Comments: Inspection report sent on 10/9/2002

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Compliance Verification
Completed Date: 12/12/2000
Comments: Inspection report sent on 12/12/2000

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Consent Agreement
Completed Date: 10/31/2001
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 08/22/2001
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 09/08/2007
Comments: Completed

**ANACO, AN UNINCORPORATED DIVISION OF MCWANE, INC. (Continued)** **1000434760**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 01/25/2007
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Workplan
Completed Date: 02/17/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Corrective Measures Proposal
Completed Date: 01/12/2018
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 06/22/2016
Comments: OK to proceed with risk assessment.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Corrective Measures Study Workplan
Completed Date: 01/25/2017
Comments: An updated CMP will be required in the future.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 05/28/2010
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 01/25/2001
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 05/14/2008
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 08/24/2016
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Risk Assessment Report

**ANACO, AN UNINCORPORATED DIVISION OF MCWANE, INC. (Continued)** **1000434760**

Completed Date: 01/25/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Risk Assessment Report
Completed Date: 11/30/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 11/29/2005
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 03/28/2017
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 10/07/2007
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 03/04/2004
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 10/09/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Interim Measures Workplan
Completed Date: 06/21/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 11/29/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 03/28/2001
Comments: Not reported

**ANACO, AN UNINCORPORATED DIVISION OF MCWANE, INC. (Continued)** **1000434760**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 07/22/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 09/16/1999
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 04/25/2001
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 03/05/2018
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Workplan
Completed Date: 08/06/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 07/21/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Risk Assessment Workplan
Completed Date: 07/21/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 06/21/2005
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 04/23/2007
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report

**ANACO, AN UNINCORPORATED DIVISION OF MCWANE, INC. (Continued)** **1000434760**

Completed Date: 09/08/2008
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/22/2020
Comments: Completed

Completed Area Name: AOC-7 - Transformer Area
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 04/23/2019
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 11/30/2021
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 12/22/2021
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Community Profile
Completed Date: 12/29/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Financial Assurance Documentation
Completed Date: 12/07/2021
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction
Completed Date: 11/23/2021
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Notice of Exemption
Completed Date: 05/01/2019
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Corrective Action Oversight Cost Recovery Estimate
Completed Date: 10/18/2016
Comments: Not reported

**ANACO, AN UNINCORPORATED DIVISION OF MCWANE, INC. (Continued)** **1000434760**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: OPEA Consultation
Completed Date: 06/28/2017
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 06/20/2018
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 11/19/2019
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 11/29/2018
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 12/01/2017
Comments: Completed

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

DEED:
Name: CLOW VALVE COMPANY
Address: 1375 MAGNOLIA AVENUE
City,State,Zip: CORONA, CA 92879
Envirostor ID: 71003713
Area: PROJECT WIDE
Sub Area: Not reported
Site Type: TIERED PERMIT
Status: ACTIVE
Agency: Not reported
Covenant Uploaded: Not reported
Deed Date(s): Not reported
File Name: Envirostor Land Use Restrictions

CHMIRS:
Name: Not reported

**ANACO, AN UNINCORPORATED DIVISION OF MCWANE, INC. (Continued)** **1000434760**

| | |
|---|---|
| Address: | 1375 MAGNOLIA AVE |
| City,State,Zip: | CORONA, CA 92879 |
| OES Incident Number: | 10-2313 |
| OES notification: | 04/12/2010 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Industrial Plant |
| Cleanup By: | Contractor |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Unknown |
| Other: | Not reported |
| Date/Time: | 100 |
| Year: | 2010 |
| Agency: | Clow Valve |
| Incident Date: | 4/9/2010 |
| Admin Agency: | Corona Fire Department |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Not reported |
| E Date: | Not reported |
| Substance: | Fire fighting suppression water w/oily waste |
| Unknown: | Not reported |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | Not reported |
| Number of Injuries: | Not reported |
| Number of Fatalities: | Not reported |
| #1 Pipeline: | Not reported |

**ANACO, AN UNINCORPORATED DIVISION OF MCWANE, INC. (Continued)** **1000434760**

| | |
|---|---|
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | RP states a fire in small storage area cause the release of various petroleum components to the ground. The release was contained to the area and no waterways were affected. Initial clean-up is completed and are waiting for permission to enter the building. |

ICIS:

| | |
|---|---|
| Enforcement Action ID: | 09-2010-5055 |
| FRS ID: | 110002464887 |
| Action Name: | McWane Inc (National Case) (R9 facilities Anaco and Clow) |
| Facility Name: | CLOW VALVE CO |
| Facility Address: | 1375 MAGNOLIA AVENUE<br>CORONA, CA 92879-5002 |
| Enforcement Action Type: | Civil Judicial Action |
| Facility County: | RIVERSIDE |
| Program System Acronym: | RCRAINFO |
| Enforcement Action Forum Desc: | Judicial |
| EA Type Code: | CIV |
| Facility SIC Code: | Not reported |
| Federal Facility ID: | Not reported |
| Latitude in Decimal Degrees: | 33.86881 |
| Longitude in Decimal Degrees: | -117.53712 |
| Permit Type Desc: | Not reported |
| Program System Acronym: | CAD063115133 |
| Facility NAICS Code: | Not reported |
| Tribal Land Code: | Not reported |

| | |
|---|---|
| Enforcement Action ID: | 09-2010-5055 |
| FRS ID: | 110002464887 |
| Action Name: | McWane Inc (National Case) (R9 facilities Anaco and Clow) |
| Facility Name: | CLOW VALVE CO |
| Facility Address: | 1375 MAGNOLIA AVENUE<br>CORONA, CA 92879-5002 |
| Enforcement Action Type: | Civil Judicial Action |
| Facility County: | RIVERSIDE |
| Program System Acronym: | TRIS |
| Enforcement Action Forum Desc: | Judicial |
| EA Type Code: | CIV |
| Facility SIC Code: | Not reported |
| Federal Facility ID: | Not reported |
| Latitude in Decimal Degrees: | 33.86881 |
| Longitude in Decimal Degrees: | -117.53712 |
| Permit Type Desc: | Not reported |
| Program System Acronym: | 91719CLWVL1375M |
| Facility NAICS Code: | Not reported |
| Tribal Land Code: | Not reported |

**ANACO, AN UNINCORPORATED DIVISION OF MCWANE, INC. (Continued)** **1000434760**

Facility Name: CLOW VALVE CO
Address: 1375 MAGNOLIA AVENUE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Facility Name: CLOW VALVE CO
Address: 1375 MAGNOLIA AVENUE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Facility Name: CLOW VALVE CO
Address: 1375 MAGNOLIA AVENUE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Facility Name: CLOW VALVE CO
Address: 1375 MAGNOLIA AVENUE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Facility Name: CLOW VALVE CO
Address: 1375 MAGNOLIA AVENUE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Facility Name: CLOW VALVE CO
Address: 1375 MAGNOLIA AVENUE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Facility Name: CLOW VALVE CO
Address: 1375 MAGNOLIA AVENUE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Facility Name: CLOW VALVE CO
Address: 1375 MAGNOLIA AVENUE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Facility Name: CLOW VALVE CO

**ANACO, AN UNINCORPORATED DIVISION OF MCWANE, INC. (Continued)** **1000434760**

Address: 1375 MAGNOLIA AVENUE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Facility Name: CLOW VALVE CO
Address: 1375 MAGNOLIA AVENUE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

EMI:
Name: CLOW VALVE COMPANY
Address: 1375 MAGNOLIA AVE
City,State,Zip: CORONA, CA 917200000
Year: 2006
County Code: 33
Air Basin: SC
Facility ID: 145781
Air District Name: SC
SIC Code: 3491
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 1.711732693725581080
Reactive Organic Gases Tons/Yr: 1.628
Carbon Monoxide Emissions Tons/Yr: .109
NOX - Oxides of Nitrogen Tons/Yr: .405
SOX - Oxides of Sulphur Tons/Yr: .002
Particulate Matter Tons/Yr: .098
Part. Matter 10 Micrometers and Smllr Tons/Yr: .093518

Name: CLOW VALVE COMPANY
Address: 1375 MAGNOLIA AVE
City,State,Zip: CORONA, CA 917200000
Year: 2007
County Code: 33
Air Basin: SC
Facility ID: 145781
Air District Name: SC
SIC Code: 3491
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 1.711732693725581080
Reactive Organic Gases Tons/Yr: 1.628
Carbon Monoxide Emissions Tons/Yr: .109
NOX - Oxides of Nitrogen Tons/Yr: .405
SOX - Oxides of Sulphur Tons/Yr: .002
Particulate Matter Tons/Yr: .098
Part. Matter 10 Micrometers and Smllr Tons/Yr: .093518

Name: CLOW VALVE COMPANY
Address: 1375 MAGNOLIA AVE
City,State,Zip: CORONA, CA 92879

**ANACO, AN UNINCORPORATED DIVISION OF MCWANE, INC. (Continued)** **1000434760**

| | |
|---|---|
| Year: | 2008 |
| County Code: | 33 |
| Air Basin: | SC |
| Facility ID: | 145781 |
| Air District Name: | SC |
| SIC Code: | 3491 |
| Air District Name: | SOUTH COAST AQMD |
| Community Health Air Pollution Info System: | Not reported |
| Consolidated Emission Reporting Rule: | Not reported |
| Total Organic Hydrocarbon Gases Tons/Yr: | 1.196654899811163683 |
| Reactive Organic Gases Tons/Yr: | 1.16974793 |
| Carbon Monoxide Emissions Tons/Yr: | .04 |
| NOX - Oxides of Nitrogen Tons/Yr: | .17 |
| SOX - Oxides of Sulphur Tons/Yr: | .000795 |
| Particulate Matter Tons/Yr: | .6224335 |
| Part. Matter 10 Micrometers and Smllr Tons/Yr: | .596737704 |

| | |
|---|---|
| Name: | CLOW VALVE COMPANY |
| Address: | 1375 MAGNOLIA AVE |
| City,State,Zip: | CORONA, CA 92879 |
| Year: | 2018 |
| County Code: | 33 |
| Air Basin: | SC |
| Facility ID: | 145781 |
| Air District Name: | SC |
| SIC Code: | 3494 |
| Air District Name: | SOUTH COAST AQMD |
| Community Health Air Pollution Info System: | Not reported |
| Consolidated Emission Reporting Rule: | Not reported |
| Total Organic Hydrocarbon Gases Tons/Yr: | 1.804540787 |
| Reactive Organic Gases Tons/Yr: | 1.719964675 |
| Carbon Monoxide Emissions Tons/Yr: | 0.04134845 |
| NOX - Oxides of Nitrogen Tons/Yr: | 0.15358 |
| SOX - Oxides of Sulphur Tons/Yr: | 0.000708831 |
| Particulate Matter Tons/Yr: | 0.41495738 |
| Part. Matter 10 Micrometers and Smllr Tons/Yr: | 0.39673413137 |

| | |
|---|---|
| Name: | CLOW VALVE COMPANY |
| Address: | 1375 MAGNOLIA AVE |
| City,State,Zip: | CORONA, CA 92879 |
| Year: | 2019 |
| County Code: | 33 |
| Air Basin: | SC |
| Facility ID: | 145781 |
| Air District Name: | SC |
| SIC Code: | 3491 |
| Air District Name: | SOUTH COAST AQMD |
| Community Health Air Pollution Info System: | Not reported |
| Consolidated Emission Reporting Rule: | Not reported |
| Total Organic Hydrocarbon Gases Tons/Yr: | 2.4227010834 |
| Reactive Organic Gases Tons/Yr: | 2.298733325 |
| Carbon Monoxide Emissions Tons/Yr: | 0.0511712 |
| NOX - Oxides of Nitrogen Tons/Yr: | 0.1900645 |
| SOX - Oxides of Sulphur Tons/Yr: | 0.000877219 |
| Particulate Matter Tons/Yr: | 0.5014854096 |
| Part. Matter 10 Micrometers and Smllr Tons/Yr: | 0.48074490498 |

Count: 1 records.

ORPHAN SUMMARY

| City | EDR ID | Site Name | Site Address | Zip | Database(s) |
|---|---|---|---|---|---|
| CORONA | S108985916 | NWC OF ONTARIO & STATE | 301 ONTARIO AVENUE | | CPS-SLIC |

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

**Number of Days to Update:** Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

**STANDARD ENVIRONMENTAL RECORDS**

***Lists of Federal NPL (Superfund) sites***

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 04/27/2022
Date Data Arrived at EDR: 05/05/2022
Date Made Active in Reports: 05/31/2022
Number of Days to Update: 26

Source: EPA
Telephone: N/A
Last EDR Contact: 07/01/2022
Next Scheduled EDR Contact: 10/10/2022
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 04/27/2022
Date Data Arrived at EDR: 05/05/2022
Date Made Active in Reports: 05/31/2022
Number of Days to Update: 26

Source: EPA
Telephone: N/A
Last EDR Contact: 07/01/2022
Next Scheduled EDR Contact: 10/10/2022
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

***Lists of Federal Delisted NPL sites***

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 04/27/2022
Date Data Arrived at EDR: 05/05/2022
Date Made Active in Reports: 05/31/2022
Number of Days to Update: 26

Source: EPA
Telephone: N/A
Last EDR Contact: 07/01/2022
Next Scheduled EDR Contact: 10/10/2022
Data Release Frequency: Quarterly

***Lists of Federal sites subject to CERCLA removals and CERCLA orders***

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 05/25/2021
Date Data Arrived at EDR: 06/24/2021
Date Made Active in Reports: 09/20/2021
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 06/27/2022
Next Scheduled EDR Contact: 10/10/2022
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 04/27/2022
Date Data Arrived at EDR: 05/05/2022
Date Made Active in Reports: 05/31/2022
Number of Days to Update: 26

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 07/01/2022
Next Scheduled EDR Contact: 10/24/2022
Data Release Frequency: Quarterly

***Lists of Federal CERCLA sites with NFRAP***

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 04/27/2022
Date Data Arrived at EDR: 05/05/2022
Date Made Active in Reports: 05/31/2022
Number of Days to Update: 26

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 07/01/2022
Next Scheduled EDR Contact: 10/24/2022
Data Release Frequency: Quarterly

***Lists of Federal RCRA facilities undergoing Corrective Action***

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 06/20/2022
Date Data Arrived at EDR: 06/21/2022
Date Made Active in Reports: 06/28/2022
Number of Days to Update: 7

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 06/21/2022
Next Scheduled EDR Contact: 10/03/2022
Data Release Frequency: Quarterly

***Lists of Federal RCRA TSD facilities***

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 06/20/2022
Date Data Arrived at EDR: 06/21/2022
Date Made Active in Reports: 06/28/2022
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/21/2022
Next Scheduled EDR Contact: 10/03/2022
Data Release Frequency: Quarterly

***Lists of Federal RCRA generators***

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/20/2022
Date Data Arrived at EDR: 06/21/2022
Date Made Active in Reports: 06/28/2022
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/21/2022
Next Scheduled EDR Contact: 10/03/2022
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 06/20/2022
Date Data Arrived at EDR: 06/21/2022
Date Made Active in Reports: 06/28/2022
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/21/2022
Next Scheduled EDR Contact: 10/03/2022
Data Release Frequency: Quarterly

RCRA-VSQG: RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/20/2022
Date Data Arrived at EDR: 06/21/2022
Date Made Active in Reports: 06/28/2022
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/21/2022
Next Scheduled EDR Contact: 10/03/2022
Data Release Frequency: Quarterly

***Federal institutional controls / engineering controls registries***

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 02/08/2022
Date Data Arrived at EDR: 02/11/2022
Date Made Active in Reports: 05/10/2022
Number of Days to Update: 88

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 05/05/2022
Next Scheduled EDR Contact: 08/22/2022
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 02/21/2022
Date Data Arrived at EDR: 02/23/2022
Date Made Active in Reports: 05/24/2022
Number of Days to Update: 90

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 05/24/2022
Next Scheduled EDR Contact: 09/05/2022
Data Release Frequency: Varies

US INST CONTROLS: Institutional Controls Sites List

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 02/21/2022
Date Data Arrived at EDR: 02/23/2022
Date Made Active in Reports: 05/24/2022
Number of Days to Update: 90

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 05/04/2022
Next Scheduled EDR Contact: 09/05/2022
Data Release Frequency: Varies

***Federal ERNS list***

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 06/14/2022
Date Data Arrived at EDR: 06/15/2022
Date Made Active in Reports: 06/21/2022
Number of Days to Update: 6

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 06/15/2022
Next Scheduled EDR Contact: 10/03/2022
Data Release Frequency: Quarterly

***Lists of state- and tribal (Superfund) equivalent sites***

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 04/25/2022
Date Data Arrived at EDR: 04/26/2022
Date Made Active in Reports: 07/15/2022
Number of Days to Update: 80

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 07/25/2022
Next Scheduled EDR Contact: 11/07/2022
Data Release Frequency: Quarterly

***Lists of state- and tribal hazardous waste facilities***

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 04/25/2022
Date Data Arrived at EDR: 04/26/2022
Date Made Active in Reports: 07/15/2022
Number of Days to Update: 80

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 07/25/2022
Next Scheduled EDR Contact: 11/07/2022
Data Release Frequency: Quarterly

***Lists of state and tribal landfills and solid waste disposal facilities***

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inve ntory of solid waste disposal facilities or landfills. These may be active or i nactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 02/07/2022
Date Data Arrived at EDR: 02/08/2022
Date Made Active in Reports: 05/05/2022
Number of Days to Update: 86

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 05/09/2022
Next Scheduled EDR Contact: 08/22/2022
Data Release Frequency: Quarterly

***Lists of state and tribal leaking storage tanks***

LUST REG 3: Leaking Underground Storage Tank Database
Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-542-4786
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

LUST REG 4: Underground Storage Tank Leak List
Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6710
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing
For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 7: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-776-8943
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks
California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4496
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

LUST: Leaking Underground Fuel Tank Report (GEOTRACKER)
Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 05/23/2022
Date Data Arrived at EDR: 05/23/2022
Date Made Active in Reports: 05/24/2022
Number of Days to Update: 1

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 05/23/2022
Next Scheduled EDR Contact: 09/19/2022
Data Release Frequency: Quarterly

LUST REG 9: Leaking Underground Storage Tank Report
Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-637-5595
Last EDR Contact: 09/26/2011
Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List

Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: No Update Planned

LUST REG 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-570-3769
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 6V: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-241-7365
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 5: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-4834
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 06/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 05/28/2021
Date Data Arrived at EDR: 06/22/2021
Date Made Active in Reports: 09/20/2021
Number of Days to Update: 90

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 06/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/28/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88
Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 06/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85
Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 06/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85
Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 06/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85
Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 06/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85
Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 06/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85
Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 06/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

CPS-SLIC: Statewide SLIC Cases (GEOTRACKER)
Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 05/23/2022
Date Data Arrived at EDR: 05/23/2022
Date Made Active in Reports: 05/24/2022
Number of Days to Update: 1
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 05/23/2022
Next Scheduled EDR Contact: 09/19/2022
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: No Update Planned

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 6L: SLIC Sites
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35
Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36
Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11
Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007
Date Data Arrived at EDR: 09/11/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 17
Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: No Update Planned

***Lists of state and tribal registered storage tanks***

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 10/14/2021
Date Data Arrived at EDR: 11/05/2021
Date Made Active in Reports: 02/01/2022
Number of Days to Update: 88
Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 06/29/2022
Next Scheduled EDR Contact: 10/17/2022
Data Release Frequency: Varies

UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 03/07/2022
Date Data Arrived at EDR: 03/08/2022
Date Made Active in Reports: 06/02/2022
Number of Days to Update: 86
Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 06/07/2022
Next Scheduled EDR Contact: 09/19/2022
Data Release Frequency: Semi-Annually

MILITARY UST SITES: Military UST Sites (GEOTRACKER)
Military ust sites

Date of Government Version: 05/23/2022
Date Data Arrived at EDR: 05/23/2022
Date Made Active in Reports: 06/02/2022
Number of Days to Update: 10

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 05/23/2022
Next Scheduled EDR Contact: 09/19/2022
Data Release Frequency: Varies

UST CLOSURE: Proposed Closure of Underground Storage Tank (UST) Cases
UST cases that are being considered for closure by either the State Water Resources Control Board or the Executive Director have been posted for a 60-day public comment period. UST Case Closures being proposed for consideration by the State Water Resources Control Board. These are primarily UST cases that meet closure criteria under the decisional framework in State Water Board Resolution No. 92-49 and other Board orders. UST Case Closures proposed for consideration by the Executive Director pursuant to State Water Board Resolution No. 2012-0061. These are cases that meet the criteria of the Low-Threat UST Case Closure Policy. UST Case Closure Review Denials and Approved Orders.

Date of Government Version: 03/07/2022
Date Data Arrived at EDR: 03/08/2022
Date Made Active in Reports: 06/03/2022
Number of Days to Update: 87

Source: State Water Resources Control Board
Telephone: 916-327-7844
Last EDR Contact: 06/09/2022
Next Scheduled EDR Contact: 09/19/2022
Data Release Frequency: Varies

AST: Aboveground Petroleum Storage Tank Facilities
A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 07/06/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 09/19/2016
Number of Days to Update: 69

Source: California Environmental Protection Agency
Telephone: 916-327-5092
Last EDR Contact: 06/09/2022
Next Scheduled EDR Contact: 09/26/2022
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 06/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 04/06/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 06/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 06/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 10/14/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 06/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 06/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 05/28/2021
Date Data Arrived at EDR: 06/22/2021
Date Made Active in Reports: 09/20/2021
Number of Days to Update: 90

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 06/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 06/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 06/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

***Lists of state and tribal voluntary cleanup sites***

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 07/08/2021
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

INDIAN VCP R1: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142
Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 06/15/2022
Next Scheduled EDR Contact: 10/03/2022
Data Release Frequency: Varies

VCP: Voluntary Cleanup Program Properties
Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 04/25/2022
Date Data Arrived at EDR: 04/26/2022
Date Made Active in Reports: 07/15/2022
Number of Days to Update: 80
Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 07/25/2022
Next Scheduled EDR Contact: 11/07/2022
Data Release Frequency: Quarterly

***Lists of state and tribal brownfield sites***

BROWNFIELDS: Considered Brownfieds Sites Listing
A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Date of Government Version: 03/21/2022
Date Data Arrived at EDR: 03/21/2022
Date Made Active in Reports: 06/14/2022
Number of Days to Update: 85
Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 06/21/2022
Next Scheduled EDR Contact: 10/03/2022
Data Release Frequency: Quarterly

**ADDITIONAL ENVIRONMENTAL RECORDS**

***Local Brownfield lists***

US BROWNFIELDS: A Listing of Brownfields Sites
Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 02/23/2022
Date Data Arrived at EDR: 03/10/2022
Date Made Active in Reports: 03/10/2022
Number of Days to Update: 0
Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 06/13/2022
Next Scheduled EDR Contact: 09/26/2022
Data Release Frequency: Semi-Annually

***Local Lists of Landfill / Solid Waste Disposal Sites***

WMUDS/SWAT: Waste Management Unit Database
Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 04/10/2000
Date Made Active in Reports: 05/10/2000
Number of Days to Update: 30

Source: State Water Resources Control Board
Telephone: 916-227-4448
Last EDR Contact: 07/19/2022
Next Scheduled EDR Contact: 11/07/2022
Data Release Frequency: No Update Planned

SWRCY: Recycler Database
A listing of recycling facilities in California.

Date of Government Version: 03/07/2022
Date Data Arrived at EDR: 03/08/2022
Date Made Active in Reports: 06/02/2022
Number of Days to Update: 86

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 06/07/2022
Next Scheduled EDR Contact: 09/19/2022
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing
A listing of registered waste tire haulers.

Date of Government Version: 02/15/2022
Date Data Arrived at EDR: 02/24/2022
Date Made Active in Reports: 05/25/2022
Number of Days to Update: 90

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 05/19/2022
Next Scheduled EDR Contact: 08/22/2022
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 07/21/2022
Next Scheduled EDR Contact: 11/07/2022
Data Release Frequency: Varies

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations
A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 07/12/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: No Update Planned

ODI: Open Dump Inventory
An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land
A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176

Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 07/21/2022
Next Scheduled EDR Contact: 11/07/2022
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

***Local Lists of Hazardous waste / Contaminated Sites***

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 02/22/2022
Date Data Arrived at EDR: 02/23/2022
Date Made Active in Reports: 05/10/2022
Number of Days to Update: 76

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/24/2022
Next Scheduled EDR Contact: 09/05/2022
Data Release Frequency: No Update Planned

HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/03/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 21

Source: Department of Toxic Substance Control
Telephone: 916-323-3400
Last EDR Contact: 02/23/2009
Next Scheduled EDR Contact: 05/25/2009
Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 04/25/2022
Date Data Arrived at EDR: 04/26/2022
Date Made Active in Reports: 07/15/2022
Number of Days to Update: 80

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 07/25/2022
Next Scheduled EDR Contact: 11/07/2022
Data Release Frequency: Quarterly

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 01/20/2021
Date Made Active in Reports: 04/08/2021
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 07/26/2022
Next Scheduled EDR Contact: 10/17/2022
Data Release Frequency: Varies

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 01/26/2009
Next Scheduled EDR Contact: 04/27/2009
Data Release Frequency: No Update Planned

CERS HAZ WASTE: CERS HAZ WASTE

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

Date of Government Version: 04/18/2022
Date Data Arrived at EDR: 04/19/2022
Date Made Active in Reports: 07/12/2022
Number of Days to Update: 84

Source: CalEPA
Telephone: 916-323-2514
Last EDR Contact: 07/18/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Quarterly

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 02/22/2022
Date Data Arrived at EDR: 02/23/2022
Date Made Active in Reports: 05/10/2022
Number of Days to Update: 76

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/24/2022
Next Scheduled EDR Contact: 09/05/2022
Data Release Frequency: Quarterly

PFAS: PFAS Contamination Site Location Listing

A listing of PFAS contaminated sites included in the GeoTracker database.

Date of Government Version: 03/07/2022
Date Data Arrived at EDR: 03/08/2022
Date Made Active in Reports: 06/02/2022
Number of Days to Update: 86

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/07/2022
Next Scheduled EDR Contact: 09/19/2022
Data Release Frequency: Varies

AQUEOUS FOAM: Former Fire Training Facility Assessments Listing

Airports shown on this list are those believed to use Aqueous Film Forming Foam (AFFF), and certified by the Federal Aviation Administration (FAA) under Title 14, Code of Federal Regulations (CFR), Part 139 (14 CFR Part 139). This list was created by SWRCB using information available from the FAA. Location points shown are from the latitude and longitude listed on the FAA airport master record.

Date of Government Version: 02/20/2020
Date Data Arrived at EDR: 12/10/2021
Date Made Active in Reports: 02/25/2022
Number of Days to Update: 77

Source: State Water Resources Control Board
Telephone: 916-341-5455
Last EDR Contact: 06/10/2022
Next Scheduled EDR Contact: 09/19/2022
Data Release Frequency: Varies

***Local Lists of Registered Storage Tanks***

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SAN FRANCISCO AST: Aboveground Storage Tank Site Listing
Aboveground storage tank sites

Date of Government Version: 05/05/2022
Date Data Arrived at EDR: 05/06/2022
Date Made Active in Reports: 07/21/2022
Number of Days to Update: 76

Source: San Francisco County Department of Public Health
Telephone: 415-252-3896
Last EDR Contact: 07/26/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Varies

CA FID UST: Facility Inventory Database
The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CERS TANKS: California Environmental Reporting System (CERS) Tanks
List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

Date of Government Version: 04/18/2022
Date Data Arrived at EDR: 04/19/2022
Date Made Active in Reports: 07/12/2022
Number of Days to Update: 84

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 07/18/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Quarterly

***Local Land Records***

LIENS: Environmental Liens Listing
A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 02/24/2022
Date Data Arrived at EDR: 02/25/2022
Date Made Active in Reports: 03/09/2022
Number of Days to Update: 12

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/25/2022
Next Scheduled EDR Contact: 09/12/2022
Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information
A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 04/27/2022
Date Data Arrived at EDR: 05/05/2022
Date Made Active in Reports: 05/31/2022
Number of Days to Update: 26

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 07/01/2022
Next Scheduled EDR Contact: 10/10/2022
Data Release Frequency: Semi-Annually

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 02/28/2022
Date Data Arrived at EDR: 02/28/2022
Date Made Active in Reports: 05/25/2022
Number of Days to Update: 86

Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 05/31/2022
Next Scheduled EDR Contact: 09/12/2022
Data Release Frequency: Semi-Annually

***Records of Emergency Release Reports***

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 03/21/2022
Date Data Arrived at EDR: 03/21/2022
Date Made Active in Reports: 06/14/2022
Number of Days to Update: 85

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 06/21/2022
Next Scheduled EDR Contact: 10/03/2022
Data Release Frequency: Quarterly

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 04/03/2022
Date Data Arrived at EDR: 04/19/2022
Date Made Active in Reports: 07/12/2022
Number of Days to Update: 84

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 07/18/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Semi-Annually

LDS: Land Disposal Sites Listing (GEOTRACKER)

Land Disposal sites (Landfills) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 05/23/2022
Date Data Arrived at EDR: 05/23/2022
Date Made Active in Reports: 05/24/2022
Number of Days to Update: 1

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 05/23/2022
Next Scheduled EDR Contact: 09/19/2022
Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing (GEOTRACKER)

Military sites (consisting of: Military UST sites; Military Privatized sites; and Military Cleanup sites [formerly known as DoD non UST]) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 05/23/2022
Date Data Arrived at EDR: 05/23/2022
Date Made Active in Reports: 05/24/2022
Number of Days to Update: 1

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 05/23/2022
Next Scheduled EDR Contact: 09/19/2022
Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 50

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

***Other Ascertainable Records***

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 06/20/2022
Date Data Arrived at EDR: 06/21/2022
Date Made Active in Reports: 06/28/2022
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/21/2022
Next Scheduled EDR Contact: 10/03/2022
Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/01/2021
Date Data Arrived at EDR: 02/15/2022
Date Made Active in Reports: 05/10/2022
Number of Days to Update: 84

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 05/17/2022
Next Scheduled EDR Contact: 08/29/2022
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 06/07/2021
Date Data Arrived at EDR: 07/13/2021
Date Made Active in Reports: 03/09/2022
Number of Days to Update: 239

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 07/13/2022
Next Scheduled EDR Contact: 10/24/2022
Data Release Frequency: Varies

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/11/2018
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 574

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 07/08/2022
Next Scheduled EDR Contact: 10/17/2022
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 05/06/2022
Next Scheduled EDR Contact: 08/22/2022
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 03/21/2022
Date Data Arrived at EDR: 03/21/2022
Date Made Active in Reports: 06/14/2022
Number of Days to Update: 85

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 06/21/2022
Next Scheduled EDR Contact: 10/03/2022
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 04/28/2022
Next Scheduled EDR Contact: 08/15/2022
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 05/06/2022
Next Scheduled EDR Contact: 08/15/2022
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 06/17/2020
Date Made Active in Reports: 09/10/2020
Number of Days to Update: 85

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 06/14/2022
Next Scheduled EDR Contact: 09/26/2022
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 08/14/2020
Date Made Active in Reports: 11/04/2020
Number of Days to Update: 82

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 05/20/2022
Next Scheduled EDR Contact: 08/29/2022
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 01/19/2022
Date Data Arrived at EDR: 01/19/2022
Date Made Active in Reports: 04/11/2022
Number of Days to Update: 82

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 07/18/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 04/27/2022
Date Data Arrived at EDR: 05/05/2022
Date Made Active in Reports: 05/31/2022
Number of Days to Update: 26

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 07/01/2022
Next Scheduled EDR Contact: 09/12/2022
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 04/27/2022
Date Data Arrived at EDR: 05/04/2022
Date Made Active in Reports: 05/10/2022
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 07/14/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties
A listing of verified Potentially Responsible Parties

Date of Government Version: 01/25/2022
Date Data Arrived at EDR: 02/03/2022
Date Made Active in Reports: 02/25/2022
Number of Days to Update: 22

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 07/01/2022
Next Scheduled EDR Contact: 08/15/2022
Data Release Frequency: Quarterly

PADS: PCB Activity Database System
PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 01/20/2022
Date Data Arrived at EDR: 01/20/2022
Date Made Active in Reports: 03/25/2022
Number of Days to Update: 64

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 07/08/2022
Next Scheduled EDR Contact: 10/17/2022
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System
The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 06/28/2022
Next Scheduled EDR Contact: 10/17/2022
Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

MLTS: Material Licensing Tracking System
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 03/11/2022
Date Data Arrived at EDR: 03/15/2022
Date Made Active in Reports: 06/14/2022
Number of Days to Update: 91

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 07/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

COAL ASH DOE: Steam-Electric Plant Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 11/30/2021
Date Made Active in Reports: 02/22/2022
Number of Days to Update: 84
Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 06/02/2022
Next Scheduled EDR Contact: 09/12/2022
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 01/12/2017
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 251
Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 05/25/2022
Next Scheduled EDR Contact: 09/12/2022
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 09/13/2019
Date Data Arrived at EDR: 11/06/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 96
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 05/06/2022
Next Scheduled EDR Contact: 08/15/2022
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/01/2019
Date Data Arrived at EDR: 07/01/2019
Date Made Active in Reports: 09/23/2019
Number of Days to Update: 84
Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 06/23/2022
Next Scheduled EDR Contact: 10/10/2022
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 01/02/2020
Date Data Arrived at EDR: 01/28/2020
Date Made Active in Reports: 04/17/2020
Number of Days to Update: 80

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 07/21/2022
Next Scheduled EDR Contact: 11/07/2022
Data Release Frequency: Quarterly

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 03/31/2022
Date Data Arrived at EDR: 04/14/2022
Date Made Active in Reports: 07/12/2022
Number of Days to Update: 89

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 06/29/2022
Next Scheduled EDR Contact: 10/17/2022
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 03/02/2022
Date Made Active in Reports: 03/25/2022
Number of Days to Update: 23

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 06/21/2022
Next Scheduled EDR Contact: 10/03/2022
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 07/08/2022
Next Scheduled EDR Contact: 10/17/2022
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 07/26/2021
Date Data Arrived at EDR: 07/27/2021
Date Made Active in Reports: 10/22/2021
Number of Days to Update: 87

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 07/26/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 08/30/2019
Date Data Arrived at EDR: 11/15/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 74

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 05/16/2022
Next Scheduled EDR Contact: 08/29/2022
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 04/27/2022
Date Data Arrived at EDR: 05/05/2022
Date Made Active in Reports: 05/31/2022
Number of Days to Update: 26

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 09/01/2022
Next Scheduled EDR Contact: 10/10/2022
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

MINES VIOLATIONS: MSHA Violation Assessment Data

Mines violation and assessment information. Department of Labor, Mine Safety & Health Administration.

Date of Government Version: 03/21/2022
Date Data Arrived at EDR: 03/22/2022
Date Made Active in Reports: 03/25/2022
Number of Days to Update: 3

Source: DOL, Mine Safety & Health Admi
Telephone: 202-693-9424
Last EDR Contact: 05/26/2022
Next Scheduled EDR Contact: 09/12/2022
Data Release Frequency: Quarterly

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 02/01/2022
Date Data Arrived at EDR: 02/23/2022
Date Made Active in Reports: 05/24/2022
Number of Days to Update: 90

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 05/25/2022
Next Scheduled EDR Contact: 09/05/2022
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 05/06/2020
Date Data Arrived at EDR: 05/27/2020
Date Made Active in Reports: 08/13/2020
Number of Days to Update: 78

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 05/27/2022
Next Scheduled EDR Contact: 09/05/2022
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 05/27/2022
Next Scheduled EDR Contact: 09/05/2022
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 03/10/2022
Date Data Arrived at EDR: 03/10/2022
Date Made Active in Reports: 06/14/2022
Number of Days to Update: 96

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 06/14/2022
Next Scheduled EDR Contact: 09/19/2022
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 05/13/2022
Date Data Arrived at EDR: 05/18/2022
Date Made Active in Reports: 05/31/2022
Number of Days to Update: 13

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 05/18/2022
Next Scheduled EDR Contact: 09/12/2022
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 01/11/2022
Date Made Active in Reports: 02/14/2022
Number of Days to Update: 34

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 07/07/2022
Next Scheduled EDR Contact: 10/24/2022
Data Release Frequency: Varies

DOCKET HWC: Hazardous Waste Compliance Docket Listing
A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/06/2021
Date Data Arrived at EDR: 05/21/2021
Date Made Active in Reports: 08/11/2021
Number of Days to Update: 82
Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 05/19/2022
Next Scheduled EDR Contact: 09/05/2022
Data Release Frequency: Varies

ECHO: Enforcement & Compliance History Information
ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 04/02/2022
Date Data Arrived at EDR: 04/05/2022
Date Made Active in Reports: 06/28/2022
Number of Days to Update: 84
Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 07/01/2022
Next Scheduled EDR Contact: 10/17/2022
Data Release Frequency: Quarterly

FUELS PROGRAM: EPA Fuels Program Registered Listing
This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 02/17/2022
Date Data Arrived at EDR: 02/17/2022
Date Made Active in Reports: 05/10/2022
Number of Days to Update: 82
Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 05/17/2022
Next Scheduled EDR Contact: 08/29/2022
Data Release Frequency: Quarterly

CA BOND EXP. PLAN: Bond Expenditure Plan
Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989
Date Data Arrived at EDR: 07/27/1994
Date Made Active in Reports: 08/02/1994
Number of Days to Update: 6
Source: Department of Health Services
Telephone: 916-255-2118
Last EDR Contact: 05/31/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CORTESE: "Cortese" Hazardous Waste & Substances Sites List
The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 03/21/2022
Date Data Arrived at EDR: 03/21/2022
Date Made Active in Reports: 06/14/2022
Number of Days to Update: 85
Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 06/21/2022
Next Scheduled EDR Contact: 10/03/2022
Data Release Frequency: Quarterly

CUPA LIVERMORE-PLEASANTON: CUPA Facility Listing
list of facilities associated with the various CUPA programs in Livermore-Pleasanton

Date of Government Version: 12/07/2021
Date Data Arrived at EDR: 05/09/2022
Date Made Active in Reports: 05/17/2022
Number of Days to Update: 8
Source: Livermore-Pleasanton Fire Department
Telephone: 925-454-2361
Last EDR Contact: 05/09/2022
Next Scheduled EDR Contact: 08/22/2022
Data Release Frequency: Varies

DRYCLEAN SOUTH COAST: South Coast Air Quality Management District Drycleaner Listing
A listing of dry cleaners in the South Coast Air Quality Management District

Date of Government Version: 02/17/2022
Date Data Arrived at EDR: 02/24/2022
Date Made Active in Reports: 05/18/2022
Number of Days to Update: 83

Source: South Coast Air Quality Management District
Telephone: 909-396-3211
Last EDR Contact: 05/19/2022
Next Scheduled EDR Contact: 09/05/2022
Data Release Frequency: Varies

DRYCLEAN AVAQMD: Antelope Valley Air Quality Management District Drycleaner Listing

A listing of dry cleaners in the Antelope Valley Air Quality Management District.

Date of Government Version: 02/24/2022
Date Data Arrived at EDR: 02/25/2022
Date Made Active in Reports: 05/18/2022
Number of Days to Update: 82

Source: Antelope Valley Air Quality Management District
Telephone: 661-723-8070
Last EDR Contact: 05/25/2022
Next Scheduled EDR Contact: 09/12/2022
Data Release Frequency: Varies

DRYCLEANERS: Cleaner Facilities

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 08/27/2021
Date Data Arrived at EDR: 09/01/2021
Date Made Active in Reports: 11/19/2021
Number of Days to Update: 79

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 06/01/2022
Next Scheduled EDR Contact: 09/12/2022
Data Release Frequency: Annually

EMI: Emissions Inventory Data

Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 06/10/2021
Date Made Active in Reports: 08/27/2021
Number of Days to Update: 78

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 06/13/2022
Next Scheduled EDR Contact: 09/26/2022
Data Release Frequency: Varies

ENF: Enforcement Action Listing

A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 04/12/2022
Date Data Arrived at EDR: 04/19/2022
Date Made Active in Reports: 05/31/2022
Number of Days to Update: 42

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 07/18/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

Financial Assurance information

Date of Government Version: 04/19/2022
Date Data Arrived at EDR: 04/29/2022
Date Made Active in Reports: 07/15/2022
Number of Days to Update: 77

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 07/21/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing

A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 02/23/2022
Date Data Arrived at EDR: 02/24/2022
Date Made Active in Reports: 05/18/2022
Number of Days to Update: 83

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 05/19/2022
Next Scheduled EDR Contact: 08/22/2022
Data Release Frequency: Varies

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 04/15/2020
Date Made Active in Reports: 07/02/2020
Number of Days to Update: 78

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 07/05/2022
Next Scheduled EDR Contact: 10/17/2022
Data Release Frequency: Annually

ICE: ICE

Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 02/14/2022
Date Data Arrived at EDR: 02/15/2022
Date Made Active in Reports: 05/12/2022
Number of Days to Update: 86

Source: Department of Toxic Subsances Control
Telephone: 877-786-9427
Last EDR Contact: 05/17/2022
Next Scheduled EDR Contact: 08/29/2022
Data Release Frequency: Quarterly

HIST CORTESE: Hazardous Waste & Substance Site List

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 01/22/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/22/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HWP: EnviroStor Permitted Facilities Listing

Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 02/14/2022
Date Data Arrived at EDR: 02/15/2022
Date Made Active in Reports: 05/12/2022
Number of Days to Update: 86

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/17/2022
Next Scheduled EDR Contact: 08/29/2022
Data Release Frequency: Quarterly

HWT: Registered Hazardous Waste Transporter Database

A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 04/05/2022
Date Data Arrived at EDR: 04/05/2022
Date Made Active in Reports: 06/27/2022
Number of Days to Update: 83

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 07/05/2022
Next Scheduled EDR Contact: 10/17/2022
Data Release Frequency: Quarterly

MINES: Mines Site Location Listing
A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 03/07/2022
Date Data Arrived at EDR: 03/08/2022
Date Made Active in Reports: 06/01/2022
Number of Days to Update: 85
Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 06/07/2022
Next Scheduled EDR Contact: 09/19/2022
Data Release Frequency: Quarterly

MWMP: Medical Waste Management Program Listing
The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 02/17/2022
Date Data Arrived at EDR: 02/28/2022
Date Made Active in Reports: 05/25/2022
Number of Days to Update: 86
Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 05/31/2022
Next Scheduled EDR Contact: 09/12/2022
Data Release Frequency: Varies

NPDES: NPDES Permits Listing
A listing of NPDES permits, including stormwater.

Date of Government Version: 02/07/2022
Date Data Arrived at EDR: 02/08/2022
Date Made Active in Reports: 05/05/2022
Number of Days to Update: 86
Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 05/09/2022
Next Scheduled EDR Contact: 08/22/2022
Data Release Frequency: Quarterly

PEST LIC: Pesticide Regulation Licenses Listing
A listing of licenses and certificates issued by the Department of Pesticide Regulation. The DPR issues licenses and/or certificates to: Persons and businesses that apply or sell pesticides; Pest control dealers and brokers; Persons who advise on agricultural pesticide applications.

Date of Government Version: 02/28/2022
Date Data Arrived at EDR: 02/28/2022
Date Made Active in Reports: 05/25/2022
Number of Days to Update: 86
Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 05/31/2022
Next Scheduled EDR Contact: 09/12/2022
Data Release Frequency: Quarterly

PROC: Certified Processors Database
A listing of certified processors.

Date of Government Version: 03/07/2022
Date Data Arrived at EDR: 03/08/2022
Date Made Active in Reports: 06/02/2022
Number of Days to Update: 86
Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 06/07/2022
Next Scheduled EDR Contact: 09/19/2022
Data Release Frequency: Quarterly

NOTIFY 65: Proposition 65 Records
Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 03/11/2022
Date Data Arrived at EDR: 03/15/2022
Date Made Active in Reports: 06/08/2022
Number of Days to Update: 85
Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 06/09/2022
Next Scheduled EDR Contact: 09/26/2022
Data Release Frequency: No Update Planned

UIC: UIC Listing
A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 03/07/2022
Date Data Arrived at EDR: 03/08/2022
Date Made Active in Reports: 06/02/2022
Number of Days to Update: 86
Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 06/07/2022
Next Scheduled EDR Contact: 09/19/2022
Data Release Frequency: Varies

UIC GEO: Underground Injection Control Sites (GEOTRACKER)
Underground control injection sites

Date of Government Version: 05/23/2022
Date Data Arrived at EDR: 05/23/2022
Date Made Active in Reports: 06/02/2022
Number of Days to Update: 10
Source: State Water Resource Control Board
Telephone: 866-480-1028
Last EDR Contact: 05/23/2022
Next Scheduled EDR Contact: 09/19/2022
Data Release Frequency: Varies

WASTEWATER PITS: Oil Wastewater Pits Listing
Water officials discovered that oil producers have been dumping chemical-laden wastewater into hundreds of unlined pits that are operating without proper permits. Inspections completed by the Central Valley Regional Water Quality Control Board revealed the existence of previously unidentified waste sites. The water boards review found that more than one-third of the region's active disposal pits are operating without permission.

Date of Government Version: 02/11/2021
Date Data Arrived at EDR: 07/01/2021
Date Made Active in Reports: 09/29/2021
Number of Days to Update: 90
Source: RWQCB, Central Valley Region
Telephone: 559-445-5577
Last EDR Contact: 07/08/2022
Next Scheduled EDR Contact: 10/17/2022
Data Release Frequency: Varies

WDS: Waste Discharge System
Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007
Date Data Arrived at EDR: 06/20/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 9
Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 05/12/2022
Next Scheduled EDR Contact: 08/29/2022
Data Release Frequency: No Update Planned

WIP: Well Investigation Program Case List
Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13
Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 06/14/2022
Next Scheduled EDR Contact: 10/03/2022
Data Release Frequency: No Update Planned

MILITARY PRIV SITES: Military Privatized Sites (GEOTRACKER)
Military privatized sites

Date of Government Version: 05/23/2022
Date Data Arrived at EDR: 05/23/2022
Date Made Active in Reports: 06/02/2022
Number of Days to Update: 10
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 05/23/2022
Next Scheduled EDR Contact: 09/19/2022
Data Release Frequency: Varies

PROJECT: Project Sites (GEOTRACKER)
Projects sites

Date of Government Version: 05/23/2022
Date Data Arrived at EDR: 05/23/2022
Date Made Active in Reports: 06/02/2022
Number of Days to Update: 10

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 05/23/2022
Next Scheduled EDR Contact: 09/19/2022
Data Release Frequency: Varies

WDR: Waste Discharge Requirements Listing

In general, the Waste Discharge Requirements (WDRs) Program (sometimes also referred to as the "Non Chapter 15 (Non 15) Program") regulates point discharges that are exempt pursuant to Subsection 20090 of Title 27 and not subject to the Federal Water Pollution Control Act. Exemptions from Title 27 may be granted for nine categories of discharges (e.g., sewage, wastewater, etc.) that meet, and continue to meet, the preconditions listed for each specific exemption. The scope of the WDRs Program also includes the discharge of wastes classified as inert, pursuant to section 20230 of Title 27.

Date of Government Version: 03/07/2022
Date Data Arrived at EDR: 03/08/2022
Date Made Active in Reports: 06/03/2022
Number of Days to Update: 87

Source: State Water Resources Control Board
Telephone: 916-341-5810
Last EDR Contact: 06/07/2022
Next Scheduled EDR Contact: 09/19/2022
Data Release Frequency: Quarterly

CIWQS: California Integrated Water Quality System

The California Integrated Water Quality System (CIWQS) is a computer system used by the State and Regional Water Quality Control Boards to track information about places of environmental interest, manage permits and other orders, track inspections, and manage violations and enforcement activities.

Date of Government Version: 02/28/2022
Date Data Arrived at EDR: 02/28/2022
Date Made Active in Reports: 05/25/2022
Number of Days to Update: 86

Source: State Water Resources Control Board
Telephone: 866-794-4977
Last EDR Contact: 05/31/2022
Next Scheduled EDR Contact: 09/12/2022
Data Release Frequency: Varies

CERS: CalEPA Regulated Site Portal Data

The CalEPA Regulated Site Portal database combines data about environmentally regulated sites and facilities in California into a single database. It combines data from a variety of state and federal databases, and provides an overview of regulated activities across the spectrum of environmental programs for any given location in California. These activities include hazardous materials and waste, state and federal cleanups, impacted ground and surface waters, and toxic materials

Date of Government Version: 04/18/2022
Date Data Arrived at EDR: 04/19/2022
Date Made Active in Reports: 07/12/2022
Number of Days to Update: 84

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 07/18/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

NON-CASE INFO: Non-Case Information Sites (GEOTRACKER)

Non-Case Information sites

Date of Government Version: 05/23/2022
Date Data Arrived at EDR: 05/23/2022
Date Made Active in Reports: 06/02/2022
Number of Days to Update: 10

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 05/23/2022
Next Scheduled EDR Contact: 09/19/2022
Data Release Frequency: Varies

OTHER OIL GAS: Other Oil & Gas Projects Sites (GEOTRACKER)

Other Oil & Gas Projects sites

Date of Government Version: 05/23/2022
Date Data Arrived at EDR: 05/23/2022
Date Made Active in Reports: 06/02/2022
Number of Days to Update: 10

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 05/23/2022
Next Scheduled EDR Contact: 09/19/2022
Data Release Frequency: Varies

PROD WATER PONDS: Produced Water Ponds Sites (GEOTRACKER)
Produced water ponds sites

Date of Government Version: 05/23/2022
Date Data Arrived at EDR: 05/23/2022
Date Made Active in Reports: 06/02/2022
Number of Days to Update: 10
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 05/23/2022
Next Scheduled EDR Contact: 09/19/2022
Data Release Frequency: Varies

SAMPLING POINT: Sampling Point ? Public Sites (GEOTRACKER)
Sampling point - public sites

Date of Government Version: 05/23/2022
Date Data Arrived at EDR: 05/23/2022
Date Made Active in Reports: 06/02/2022
Number of Days to Update: 10
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 05/23/2022
Next Scheduled EDR Contact: 09/19/2022
Data Release Frequency: Varies

WELL STIM PROJ: Well Stimulation Project (GEOTRACKER)
Includes areas of groundwater monitoring plans, a depiction of the monitoring network, and the facilities, boundaries, and subsurface characteristics of the oilfield and the features (oil and gas wells, produced water ponds, UIC wells, water supply wells, etc?) being monitored

Date of Government Version: 05/23/2022
Date Data Arrived at EDR: 05/23/2022
Date Made Active in Reports: 06/02/2022
Number of Days to Update: 10
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 05/23/2022
Next Scheduled EDR Contact: 09/19/2022
Data Release Frequency: Varies

PCS ENF: Enforcement data
No description is available for this data

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 02/05/2015
Date Made Active in Reports: 03/06/2015
Number of Days to Update: 29
Source: EPA
Telephone: 202-564-2497
Last EDR Contact: 06/28/2022
Next Scheduled EDR Contact: 10/17/2022
Data Release Frequency: Varies

PCS: Permit Compliance System
PCS is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

Date of Government Version: 07/14/2011
Date Data Arrived at EDR: 08/05/2011
Date Made Active in Reports: 09/29/2011
Number of Days to Update: 55
Source: EPA, Office of Water
Telephone: 202-564-2496
Last EDR Contact: 06/28/2022
Next Scheduled EDR Contact: 10/17/2022
Data Release Frequency: Semi-Annually

PCS INACTIVE: Listing of Inactive PCS Permits
An inactive permit is a facility that has shut down or is no longer discharging.

Date of Government Version: 11/05/2014
Date Data Arrived at EDR: 01/06/2015
Date Made Active in Reports: 05/06/2015
Number of Days to Update: 120
Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 06/28/2022
Next Scheduled EDR Contact: 10/17/2022
Data Release Frequency: Semi-Annually

MINES MRDS: Mineral Resources Data System
Mineral Resources Data System

Date of Government Version: 04/06/2018
Date Data Arrived at EDR: 10/21/2019
Date Made Active in Reports: 10/24/2019
Number of Days to Update: 3

Source: USGS
Telephone: 703-648-6533
Last EDR Contact: 05/27/2022
Next Scheduled EDR Contact: 09/05/2022
Data Release Frequency: Varies

HWTS: Hazardous Waste Tracking System

DTSC maintains the Hazardous Waste Tracking System that stores ID number information since the early 1980s and manifest data since 1993. The system collects both manifest copies from the generator and destination facility.

Date of Government Version: 04/05/2022
Date Data Arrived at EDR: 04/05/2022
Date Made Active in Reports: 04/26/2022
Number of Days to Update: 21

Source: Department of Toxic Substances Control
Telephone: 916-324-2444
Last EDR Contact: 07/06/2022
Next Scheduled EDR Contact: 10/17/2022
Data Release Frequency: Varies

**EDR HIGH RISK HISTORICAL RECORDS**

***EDR Exclusive Records***

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

**EDR RECOVERED GOVERNMENT ARCHIVES**

***Exclusive Recovered Govt. Archives***

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Resources Recycling and Recovery
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

**COUNTY RECORDS**

ALAMEDA COUNTY:

CS ALAMEDA: Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 01/09/2019
Date Data Arrived at EDR: 01/11/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 53

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 06/28/2022
Next Scheduled EDR Contact: 10/17/2022
Data Release Frequency: Semi-Annually

UST ALAMEDA: Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 06/29/2022
Date Data Arrived at EDR: 06/29/2022
Date Made Active in Reports: 07/21/2022
Number of Days to Update: 22

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 06/29/2022
Next Scheduled EDR Contact: 10/17/2022
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA AMADOR: CUPA Facility List
Cupa Facility List

Date of Government Version: 02/04/2022
Date Data Arrived at EDR: 02/04/2022
Date Made Active in Reports: 05/02/2022
Number of Days to Update: 87

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 07/26/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA BUTTE: CUPA Facility Listing
Cupa facility list.

Date of Government Version: 04/21/2017
Date Data Arrived at EDR: 04/25/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 106

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 06/28/2022
Next Scheduled EDR Contact: 10/17/2022
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA CALVERAS: CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 03/17/2022
Date Data Arrived at EDR: 03/18/2022
Date Made Active in Reports: 06/08/2022
Number of Days to Update: 82

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 06/14/2022
Next Scheduled EDR Contact: 10/03/2022
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA COLUSA: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/06/2020
Date Data Arrived at EDR: 04/23/2020
Date Made Active in Reports: 07/10/2020
Number of Days to Update: 78

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 07/26/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

SL CONTRA COSTA: Site List
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 04/21/2022
Date Data Arrived at EDR: 04/22/2022
Date Made Active in Reports: 07/12/2022
Number of Days to Update: 81

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 07/19/2022
Next Scheduled EDR Contact: 11/07/2022
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA DEL NORTE: CUPA Facility List
Cupa Facility list

Date of Government Version: 05/04/2022
Date Data Arrived at EDR: 05/06/2022
Date Made Active in Reports: 07/28/2022
Number of Days to Update: 83

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 07/19/2022
Next Scheduled EDR Contact: 11/07/2022
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA EL DORADO: CUPA Facility List
CUPA facility list.

Date of Government Version: 02/16/2022
Date Data Arrived at EDR: 02/17/2022
Date Made Active in Reports: 05/10/2022
Number of Days to Update: 82

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 07/20/2022
Next Scheduled EDR Contact: 11/07/2022
Data Release Frequency: Varies

FRESNO COUNTY:

CUPA FRESNO: CUPA Resources List
Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 06/28/2021
Date Data Arrived at EDR: 12/21/2021
Date Made Active in Reports: 03/03/2022
Number of Days to Update: 72

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 07/01/2022
Next Scheduled EDR Contact: 10/10/2022
Data Release Frequency: Semi-Annually

GLENN COUNTY:

CUPA GLENN: CUPA Facility List
Cupa facility list

Date of Government Version: 01/22/2018
Date Data Arrived at EDR: 01/24/2018
Date Made Active in Reports: 03/14/2018
Number of Days to Update: 49

Source: Glenn County Air Pollution Control District
Telephone: 830-934-6500
Last EDR Contact: 07/12/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: No Update Planned

HUMBOLDT COUNTY:

CUPA HUMBOLDT: CUPA Facility List
CUPA facility list.

Date of Government Version: 08/12/2021
Date Data Arrived at EDR: 08/12/2021
Date Made Active in Reports: 11/08/2021
Number of Days to Update: 88

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 05/12/2022
Next Scheduled EDR Contact: 08/29/2022
Data Release Frequency: Semi-Annually

IMPERIAL COUNTY:

CUPA IMPERIAL: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/18/2022
Date Data Arrived at EDR: 04/19/2022
Date Made Active in Reports: 07/12/2022
Number of Days to Update: 84

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 07/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

INYO COUNTY:

CUPA INYO: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/03/2018
Date Made Active in Reports: 06/14/2018
Number of Days to Update: 72

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 05/12/2022
Next Scheduled EDR Contact: 08/29/2022
Data Release Frequency: Varies

KERN COUNTY:

CUPA KERN: CUPA Facility List
A listing of sites included in the Kern County Hazardous Material Business Plan.

Date of Government Version: 02/10/2022
Date Data Arrived at EDR: 02/11/2022
Date Made Active in Reports: 05/04/2022
Number of Days to Update: 82

Source: Kern County Public Health
Telephone: 661-321-3000
Last EDR Contact: 07/26/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Varies

UST KERN: Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 02/10/2022
Date Data Arrived at EDR: 02/11/2022
Date Made Active in Reports: 05/04/2022
Number of Days to Update: 82

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 07/26/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA KINGS: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 12/03/2020
Date Data Arrived at EDR: 01/26/2021
Date Made Active in Reports: 04/14/2021
Number of Days to Update: 78

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 05/25/2022
Next Scheduled EDR Contact: 08/29/2022
Data Release Frequency: Varies

LAKE COUNTY:

CUPA LAKE: CUPA Facility List
Cupa facility list

Date of Government Version: 02/10/2022
Date Data Arrived at EDR: 02/11/2022
Date Made Active in Reports: 05/04/2022
Number of Days to Update: 82

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 07/07/2022
Next Scheduled EDR Contact: 10/24/2022
Data Release Frequency: Varies

LASSEN COUNTY:

CUPA LASSEN: CUPA Facility List
Cupa facility list

Date of Government Version: 07/31/2020
Date Data Arrived at EDR: 08/21/2020
Date Made Active in Reports: 11/09/2020
Number of Days to Update: 80

Source: Lassen County Environmental Health
Telephone: 530-251-8528
Last EDR Contact: 07/12/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

LOS ANGELES COUNTY:

AOCONCERN: Key Areas of Concerns in Los Angeles County
San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office. Date of Government Version: 3/30/2009 Exide Site area is a cleanup plan of lead-impacted soil surrounding the former Exide Facility as designated by the DTSC. Date of Government Version: 7/17/2017

Date of Government Version: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206

Source: N/A
Telephone: N/A
Last EDR Contact: 06/09/2022
Next Scheduled EDR Contact: 09/26/2022
Data Release Frequency: No Update Planned

HMS LOS ANGELES: HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 04/04/2022
Date Data Arrived at EDR: 04/05/2022
Date Made Active in Reports: 04/13/2022
Number of Days to Update: 8

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 06/29/2022
Next Scheduled EDR Contact: 10/17/2022
Data Release Frequency: Semi-Annually

LF LOS ANGELES: List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 04/11/2022
Date Data Arrived at EDR: 04/12/2022
Date Made Active in Reports: 07/05/2022
Number of Days to Update: 84

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 07/11/2022
Next Scheduled EDR Contact: 10/24/2022
Data Release Frequency: Varies

LF LOS ANGELES CITY: City of Los Angeles Landfills
Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 01/01/2022
Date Data Arrived at EDR: 01/21/2022
Date Made Active in Reports: 04/11/2022
Number of Days to Update: 80

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 07/06/2022
Next Scheduled EDR Contact: 10/24/2022
Data Release Frequency: Varies

LOS ANGELES AST: Active & Inactive AST Inventory
A listing of active & inactive above ground petroleum storage tank site locations, located in the City of Los Angeles.

Date of Government Version: 06/01/2019
Date Data Arrived at EDR: 06/25/2019
Date Made Active in Reports: 08/22/2019
Number of Days to Update: 58
Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 06/14/2022
Next Scheduled EDR Contact: 10/03/2022
Data Release Frequency: Varies

LOS ANGELES CO LF METHANE: Methane Producing Landfills
This data was created on April 30, 2012 to represent known disposal sites in Los Angeles County that may produce and emanate methane gas. The shapefile contains disposal sites within Los Angeles County that once accepted degradable refuse material. Information used to create this data was extracted from a landfill survey performed by County Engineers (Major Waste System Map, 1973) as well as historical records from CalRecycle, Regional Water Quality Control Board, and Los Angeles County Department of Public Health

Date of Government Version: 01/10/2022
Date Data Arrived at EDR: 01/12/2022
Date Made Active in Reports: 04/04/2022
Number of Days to Update: 82
Source: Los Angeles County Department of Public Works
Telephone: 626-458-6973
Last EDR Contact: 07/06/2022
Next Scheduled EDR Contact: 10/24/2022
Data Release Frequency: No Update Planned

LOS ANGELES HM: Active & Inactive Hazardous Materials Inventory
A listing of active & inactive hazardous materials facility locations, located in the City of Los Angeles.

Date of Government Version: 01/13/2022
Date Data Arrived at EDR: 03/21/2022
Date Made Active in Reports: 06/15/2022
Number of Days to Update: 86
Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 06/24/2022
Next Scheduled EDR Contact: 10/03/2022
Data Release Frequency: Varies

LOS ANGELES UST: Active & Inactive UST Inventory
A listing of active & inactive underground storage tank site locations and underground storage tank historical sites, located in the City of Los Angeles.

Date of Government Version: 01/13/2022
Date Data Arrived at EDR: 03/21/2022
Date Made Active in Reports: 06/15/2022
Number of Days to Update: 86
Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 06/24/2022
Next Scheduled EDR Contact: 10/03/2022
Data Release Frequency: Varies

SITE MIT LOS ANGELES: Site Mitigation List
Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 05/26/2021
Date Data Arrived at EDR: 07/09/2021
Date Made Active in Reports: 09/29/2021
Number of Days to Update: 82
Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 07/14/2022
Next Scheduled EDR Contact: 10/24/2022
Data Release Frequency: Annually

UST EL SEGUNDO: City of El Segundo Underground Storage Tank
Underground storage tank sites located in El Segundo city.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 04/19/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 21
Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 07/06/2022
Next Scheduled EDR Contact: 10/24/2022
Data Release Frequency: No Update Planned

UST LONG BEACH: City of Long Beach Underground Storage Tank
Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 04/22/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/27/2019
Number of Days to Update: 65

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 07/12/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

UST TORRANCE: City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 04/20/2022
Date Data Arrived at EDR: 04/21/2022
Date Made Active in Reports: 07/12/2022
Number of Days to Update: 82

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 07/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA MADERA: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 08/10/2020
Date Data Arrived at EDR: 08/12/2020
Date Made Active in Reports: 10/23/2020
Number of Days to Update: 72

Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 05/12/2022
Next Scheduled EDR Contact: 08/29/2022
Data Release Frequency: Varies

MARIN COUNTY:

UST MARIN: Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 09/26/2018
Date Data Arrived at EDR: 10/04/2018
Date Made Active in Reports: 11/02/2018
Number of Days to Update: 29

Source: Public Works Department Waste Management
Telephone: 415-473-6647
Last EDR Contact: 06/22/2022
Next Scheduled EDR Contact: 10/10/2022
Data Release Frequency: Semi-Annually

MENDOCINO COUNTY:

UST MENDOCINO: Mendocino County UST Database
A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 09/22/2021
Date Data Arrived at EDR: 11/18/2021
Date Made Active in Reports: 11/22/2021
Number of Days to Update: 4

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 05/19/2022
Next Scheduled EDR Contact: 09/05/2022
Data Release Frequency: Annually

MERCED COUNTY:

CUPA MERCED: CUPA Facility List
CUPA facility list.

Date of Government Version: 02/15/2022
Date Data Arrived at EDR: 02/17/2022
Date Made Active in Reports: 05/11/2022
Number of Days to Update: 83

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 07/07/2022
Next Scheduled EDR Contact: 08/29/2022
Data Release Frequency: Varies

MONO COUNTY:

CUPA MONO: CUPA Facility List
CUPA Facility List

Date of Government Version: 02/22/2021
Date Data Arrived at EDR: 03/02/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 78

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 05/19/2022
Next Scheduled EDR Contact: 09/05/2022
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA MONTEREY: CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 10/04/2021
Date Data Arrived at EDR: 10/06/2021
Date Made Active in Reports: 12/29/2021
Number of Days to Update: 84

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 07/19/2022
Next Scheduled EDR Contact: 10/10/2022
Data Release Frequency: Varies

NAPA COUNTY:

LUST NAPA: Sites With Reported Contamination
A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 01/09/2017
Date Data Arrived at EDR: 01/11/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 50

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 05/19/2022
Next Scheduled EDR Contact: 09/05/2022
Data Release Frequency: No Update Planned

UST NAPA: Closed and Operating Underground Storage Tank Sites
Underground storage tank sites located in Napa county.

Date of Government Version: 09/05/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 10/31/2019
Number of Days to Update: 52

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 05/19/2022
Next Scheduled EDR Contact: 09/05/2022
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA NEVADA: CUPA Facility List
CUPA facility list.

Date of Government Version: 07/21/2022
Date Data Arrived at EDR: 07/25/2022
Date Made Active in Reports: 07/28/2022
Number of Days to Update: 3

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 07/19/2022
Next Scheduled EDR Contact: 11/07/2022
Data Release Frequency: Varies

ORANGE COUNTY:

IND_SITE ORANGE: List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 04/08/2022
Date Data Arrived at EDR: 05/09/2022
Date Made Active in Reports: 07/28/2022
Number of Days to Update: 80

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 05/02/2022
Next Scheduled EDR Contact: 08/15/2022
Data Release Frequency: Annually

LUST ORANGE: List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 01/14/2022
Date Data Arrived at EDR: 02/04/2022
Date Made Active in Reports: 05/02/2022
Number of Days to Update: 87

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 05/02/2022
Next Scheduled EDR Contact: 08/15/2022
Data Release Frequency: Quarterly

UST ORANGE: List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 04/08/2022
Date Data Arrived at EDR: 05/03/2022
Date Made Active in Reports: 07/20/2022
Number of Days to Update: 78

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 05/03/2022
Next Scheduled EDR Contact: 08/15/2022
Data Release Frequency: Quarterly

PLACER COUNTY:

MS PLACER: Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 05/25/2022
Date Data Arrived at EDR: 05/26/2022
Date Made Active in Reports: 06/01/2022
Number of Days to Update: 6

Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 05/25/2022
Next Scheduled EDR Contact: 09/12/2022
Data Release Frequency: Semi-Annually

PLUMAS COUNTY:

CUPA PLUMAS: CUPA Facility List
Plumas County CUPA Program facilities.

Date of Government Version: 03/31/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/26/2019
Number of Days to Update: 64

Source: Plumas County Environmental Health
Telephone: 530-283-6355
Last EDR Contact: 07/12/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

RIVERSIDE COUNTY:

LUST RIVERSIDE: Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 03/31/2022
Date Data Arrived at EDR: 03/31/2022
Date Made Active in Reports: 04/08/2022
Number of Days to Update: 8

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 06/09/2022
Next Scheduled EDR Contact: 09/26/2022
Data Release Frequency: Quarterly

UST RIVERSIDE: Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 03/31/2022
Date Data Arrived at EDR: 03/31/2022
Date Made Active in Reports: 04/08/2022
Number of Days to Update: 8

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 06/09/2022
Next Scheduled EDR Contact: 09/26/2022
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

CS SACRAMENTO: Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 06/18/2021
Date Data Arrived at EDR: 09/28/2021
Date Made Active in Reports: 12/14/2021
Number of Days to Update: 77

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 06/30/2022
Next Scheduled EDR Contact: 10/10/2022
Data Release Frequency: Quarterly

ML SACRAMENTO: Master Hazardous Materials Facility List
Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 05/04/2022
Date Data Arrived at EDR: 06/30/2022
Date Made Active in Reports: 07/05/2022
Number of Days to Update: 5

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 06/30/2022
Next Scheduled EDR Contact: 10/10/2022
Data Release Frequency: Quarterly

SAN BENITO COUNTY:

CUPA SAN BENITO: CUPA Facility List
Cupa facility list

Date of Government Version: 04/29/2022
Date Data Arrived at EDR: 04/29/2022
Date Made Active in Reports: 05/05/2022
Number of Days to Update: 6

Source: San Benito County Environmental Health
Telephone: N/A
Last EDR Contact: 07/26/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Varies

SAN BERNARDINO COUNTY:

PERMITS SAN BERNARDINO: Hazardous Material Permits
This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 05/12/2022
Date Data Arrived at EDR: 05/12/2022
Date Made Active in Reports: 05/18/2022
Number of Days to Update: 6

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 07/26/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

HMMD SAN DIEGO: Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 02/28/2022
Date Data Arrived at EDR: 02/28/2022
Date Made Active in Reports: 05/25/2022
Number of Days to Update: 86

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 05/31/2022
Next Scheduled EDR Contact: 09/12/2022
Data Release Frequency: Quarterly

LF SAN DIEGO: Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 10/27/2021
Date Data Arrived at EDR: 03/04/2022
Date Made Active in Reports: 05/31/2022
Number of Days to Update: 88

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 07/12/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

SAN DIEGO CO LOP: Local Oversight Program Listing

A listing of all LOP release sites that are or were under the County of San Diego's jurisdiction. Included are closed or transferred cases, open cases, and cases that did not have a case type indicated. The cases without a case type are mostly complaints; however, some of them could be LOP cases.

Date of Government Version: 07/22/2021
Date Data Arrived at EDR: 10/19/2021
Date Made Active in Reports: 01/13/2022
Number of Days to Update: 86

Source: Department of Environmental Health
Telephone: 858-505-6874
Last EDR Contact: 07/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

SAN DIEGO CO SAM: Environmental Case Listing

The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010
Date Data Arrived at EDR: 06/15/2010
Date Made Active in Reports: 07/09/2010
Number of Days to Update: 24

Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 05/25/2022
Next Scheduled EDR Contact: 09/12/2022
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

CUPA SAN FRANCISCO CO: CUPA Facility Listing

Cupa facilities

Date of Government Version: 05/05/2022
Date Data Arrived at EDR: 05/06/2022
Date Made Active in Reports: 07/28/2022
Number of Days to Update: 83

Source: San Francisco County Department of Environmental Health
Telephone: 415-252-3896
Last EDR Contact: 07/26/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Varies

LUST SAN FRANCISCO: Local Oversite Facilities
A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 10

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 07/26/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: No Update Planned

UST SAN FRANCISCO: Underground Storage Tank Information
Underground storage tank sites located in San Francisco county.

Date of Government Version: 05/05/2022
Date Data Arrived at EDR: 05/06/2022
Date Made Active in Reports: 07/20/2022
Number of Days to Update: 75

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 07/26/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Quarterly

SAN FRANCISO COUNTY:

SAN FRANCISCO MAHER: Maher Ordinance Property Listing
a listing of properties that fall within a Maher Ordinance, for all of San Francisco

Date of Government Version: 01/18/2022
Date Data Arrived at EDR: 01/20/2022
Date Made Active in Reports: 04/27/2022
Number of Days to Update: 97

Source: San Francisco Planning
Telephone: 628-652-7483
Last EDR Contact: 07/05/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

SAN JOAQUIN COUNTY:

UST SAN JOAQUIN: San Joaquin Co. UST
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 06/22/2018
Date Data Arrived at EDR: 06/26/2018
Date Made Active in Reports: 07/11/2018
Number of Days to Update: 15

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 06/09/2022
Next Scheduled EDR Contact: 09/26/2022
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA SAN LUIS OBISPO: CUPA Facility List
Cupa Facility List.

Date of Government Version: 02/15/2022
Date Data Arrived at EDR: 02/16/2022
Date Made Active in Reports: 05/13/2022
Number of Days to Update: 86

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 05/12/2022
Next Scheduled EDR Contact: 08/29/2022
Data Release Frequency: Varies

SAN MATEO COUNTY:

BI SAN MATEO: Business Inventory
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 02/20/2020
Date Data Arrived at EDR: 02/20/2020
Date Made Active in Reports: 04/24/2020
Number of Days to Update: 64
Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 06/10/2022
Next Scheduled EDR Contact: 09/19/2022
Data Release Frequency: Annually

LUST SAN MATEO: Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 03/29/2019
Date Data Arrived at EDR: 03/29/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 61
Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 06/02/2022
Next Scheduled EDR Contact: 09/19/2022
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA SANTA BARBARA: CUPA Facility Listing
CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011
Date Data Arrived at EDR: 09/09/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 28
Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 05/12/2022
Next Scheduled EDR Contact: 08/29/2022
Data Release Frequency: No Update Planned

SANTA CLARA COUNTY:

CUPA SANTA CLARA: Cupa Facility List
Cupa facility list

Date of Government Version: 02/14/2022
Date Data Arrived at EDR: 02/16/2022
Date Made Active in Reports: 05/12/2022
Number of Days to Update: 85
Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 05/12/2022
Next Scheduled EDR Contact: 08/29/2022
Data Release Frequency: Varies

HIST LUST SANTA CLARA: HIST LUST - Fuel Leak Site Activity Report
A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22
Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

LUST SANTA CLARA: LOP Listing
A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014
Date Data Arrived at EDR: 03/05/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 13
Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 05/19/2022
Next Scheduled EDR Contact: 09/05/2022
Data Release Frequency: No Update Planned

SAN JOSE HAZMAT: Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 11/03/2020
Date Data Arrived at EDR: 11/05/2020
Date Made Active in Reports: 01/26/2021
Number of Days to Update: 82

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 07/26/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA SANTA CRUZ: CUPA Facility List
CUPA facility listing.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 90

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 05/12/2022
Next Scheduled EDR Contact: 08/29/2022
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA SHASTA: CUPA Facility List
Cupa Facility List.

Date of Government Version: 06/15/2017
Date Data Arrived at EDR: 06/19/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 51

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 05/12/2022
Next Scheduled EDR Contact: 08/29/2022
Data Release Frequency: Varies

SOLANO COUNTY:

LUST SOLANO: Leaking Underground Storage Tanks
A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 06/04/2019
Date Data Arrived at EDR: 06/06/2019
Date Made Active in Reports: 08/13/2019
Number of Days to Update: 68

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 05/25/2022
Next Scheduled EDR Contact: 09/12/2022
Data Release Frequency: Quarterly

UST SOLANO: Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 09/15/2021
Date Data Arrived at EDR: 09/16/2021
Date Made Active in Reports: 12/09/2021
Number of Days to Update: 84

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 05/25/2022
Next Scheduled EDR Contact: 09/12/2022
Data Release Frequency: Quarterly

SONOMA COUNTY:

CUPA SONOMA: Cupa Facility List
Cupa Facility list

Date of Government Version: 07/02/2021
Date Data Arrived at EDR: 07/06/2021
Date Made Active in Reports: 07/14/2021
Number of Days to Update: 8

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 06/14/2022
Next Scheduled EDR Contact: 10/03/2022
Data Release Frequency: Varies

LUST SONOMA: Leaking Underground Storage Tank Sites
A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 06/30/2021
Date Data Arrived at EDR: 06/30/2021
Date Made Active in Reports: 09/24/2021
Number of Days to Update: 86

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 06/14/2022
Next Scheduled EDR Contact: 10/04/2021
Data Release Frequency: Quarterly

STANISLAUS COUNTY:

CUPA STANISLAUS: CUPA Facility List
Cupa facility list

Date of Government Version: 02/08/2022
Date Data Arrived at EDR: 02/10/2022
Date Made Active in Reports: 05/04/2022
Number of Days to Update: 83

Source: Stanislaus County Department of Ennvironmental Protection
Telephone: 209-525-6751
Last EDR Contact: 07/11/2022
Next Scheduled EDR Contact: 10/24/2022
Data Release Frequency: Varies

SUTTER COUNTY:

UST SUTTER: Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 11/23/2021
Date Data Arrived at EDR: 11/29/2021
Date Made Active in Reports: 02/11/2022
Number of Days to Update: 74

Source: Sutter County Environmental Health Services
Telephone: 530-822-7500
Last EDR Contact: 05/25/2022
Next Scheduled EDR Contact: 09/12/2022
Data Release Frequency: Semi-Annually

TEHAMA COUNTY:

CUPA TEHAMA: CUPA Facility List
Cupa facilities

Date of Government Version: 01/13/2021
Date Data Arrived at EDR: 01/14/2021
Date Made Active in Reports: 04/06/2021
Number of Days to Update: 82

Source: Tehama County Department of Environmental Health
Telephone: 530-527-8020
Last EDR Contact: 07/26/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Varies

TRINITY COUNTY:

CUPA TRINITY: CUPA Facility List
Cupa facility list

Date of Government Version: 04/18/2022
Date Data Arrived at EDR: 04/19/2022
Date Made Active in Reports: 07/12/2022
Number of Days to Update: 84

Source: Department of Toxic Substances Control
Telephone: 760-352-0381
Last EDR Contact: 07/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

TULARE COUNTY:

CUPA TULARE: CUPA Facility List
Cupa program facilities

Date of Government Version: 04/26/2021
Date Data Arrived at EDR: 04/28/2021
Date Made Active in Reports: 07/13/2021
Number of Days to Update: 76

Source: Tulare County Environmental Health Services Division
Telephone: 559-624-7400
Last EDR Contact: 07/12/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Varies

TUOLUMNE COUNTY:

CUPA TUOLUMNE: CUPA Facility List
Cupa facility list

Date of Government Version: 04/23/2018
Date Data Arrived at EDR: 04/25/2018
Date Made Active in Reports: 06/25/2018
Number of Days to Update: 61

Source: Divison of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 07/12/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

VENTURA COUNTY:

BWT VENTURA: Business Plan, Hazardous Waste Producers, and Operating Underground Tanks
The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 03/28/2022
Date Data Arrived at EDR: 04/28/2022
Date Made Active in Reports: 07/15/2022
Number of Days to Update: 78

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 07/18/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Quarterly

LF VENTURA: Inventory of Illegal Abandoned and Inactive Sites
Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011
Date Data Arrived at EDR: 12/01/2011
Date Made Active in Reports: 01/19/2012
Number of Days to Update: 49

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 06/22/2022
Next Scheduled EDR Contact: 10/10/2022
Data Release Frequency: No Update Planned

LUST VENTURA: Listing of Underground Tank Cleanup Sites
Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008
Date Data Arrived at EDR: 06/24/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 37

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 05/04/2022
Next Scheduled EDR Contact: 08/22/2022
Data Release Frequency: No Update Planned

MED WASTE VENTURA: Medical Waste Program List
To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 03/28/2022
Date Data Arrived at EDR: 04/28/2022
Date Made Active in Reports: 07/15/2022
Number of Days to Update: 78

Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 07/18/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Quarterly

UST VENTURA: Underground Tank Closed Sites List
Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 02/28/2022
Date Data Arrived at EDR: 03/08/2022
Date Made Active in Reports: 06/02/2022
Number of Days to Update: 86
Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 06/07/2022
Next Scheduled EDR Contact: 09/19/2022
Data Release Frequency: Quarterly

YOLO COUNTY:

UST YOLO: Underground Storage Tank Comprehensive Facility Report
Underground storage tank sites located in Yolo county.

Date of Government Version: 03/24/2022
Date Data Arrived at EDR: 03/31/2022
Date Made Active in Reports: 06/27/2022
Number of Days to Update: 88
Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 06/22/2022
Next Scheduled EDR Contact: 10/10/2022
Data Release Frequency: Annually

YUBA COUNTY:

CUPA YUBA: CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 05/03/2022
Date Data Arrived at EDR: 05/05/2022
Date Made Active in Reports: 07/28/2022
Number of Days to Update: 84
Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 07/19/2022
Next Scheduled EDR Contact: 11/07/2022
Data Release Frequency: Varies

**OTHER DATABASE(S)**

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 05/08/2022
Date Data Arrived at EDR: 05/09/2022
Date Made Active in Reports: 07/28/2022
Number of Days to Update: 80
Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 05/09/2022
Next Scheduled EDR Contact: 08/22/2022
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 04/10/2019
Date Made Active in Reports: 05/16/2019
Number of Days to Update: 36
Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 06/28/2022
Next Scheduled EDR Contact: 10/17/2022
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 10/29/2021
Date Made Active in Reports: 01/19/2022
Number of Days to Update: 82

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 04/28/2022
Next Scheduled EDR Contact: 08/08/2022
Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 06/30/2018
Date Data Arrived at EDR: 07/19/2019
Date Made Active in Reports: 09/10/2019
Number of Days to Update: 53

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 07/06/2022
Next Scheduled EDR Contact: 10/24/2022
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 11/30/2021
Date Made Active in Reports: 02/18/2022
Number of Days to Update: 80

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 05/16/2022
Next Scheduled EDR Contact: 08/29/2022
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 06/19/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 76

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 06/03/2022
Next Scheduled EDR Contact: 09/19/2022
Data Release Frequency: Annually

Oil/Gas Pipelines

Source: Endeavor Business Media

Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

Electric Power Transmission Line Data

Source: Endeavor Business Media

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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.
Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.
Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.
Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.
Daycare Centers: Licensed Facilities
Source: Department of Social Services
Telephone: 916-657-4041

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

**STREET AND ADDRESS INFORMATION**

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# GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

**TARGET PROPERTY ADDRESS**

CENTENNIAL HIGH SCHOOL
1820 RIMPAU AVENUE
CORONA, CA 92881

**TARGET PROPERTY COORDINATES**

| | |
|---|---|
| Latitude (North): | 33.85837 - 33ˆ 51’ 30.13’’ |
| Longitude (West): | 117.547498 - 117ˆ 32’ 50.99’’ |
| Universal Tranverse Mercator: | Zone 11 |
| UTM X (Meters): | 449354.6 |
| UTM Y (Meters): | 3746393.2 |
| Elevation: | 795 ft. above sea level |

**USGS TOPOGRAPHIC MAP**

| | |
|---|---|
| Target Property Map: | 12015885 CORONA SOUTH, CA |
| Version Date: | 2018 |
| North Map: | 12014834 CORONA NORTH, CA |
| Version Date: | 2018 |

EDR’s GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

**GROUNDWATER FLOW DIRECTION INFORMATION**

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

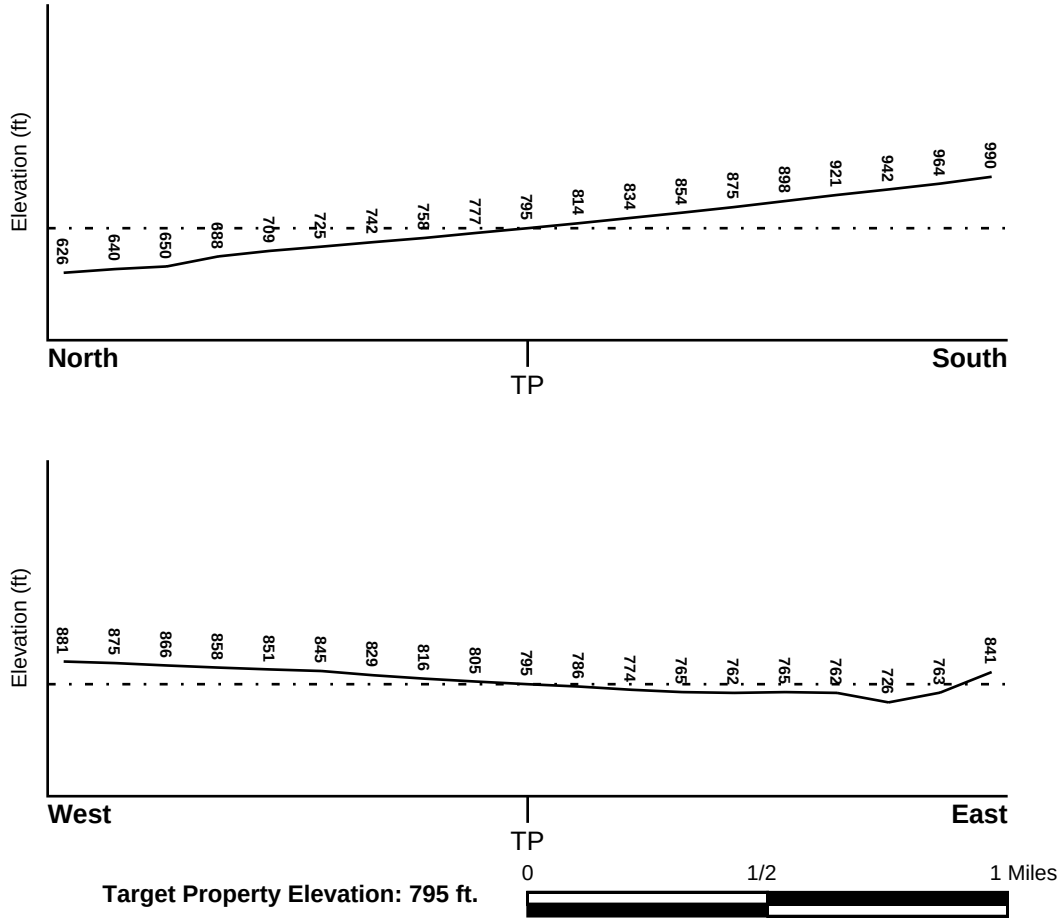
**TOPOGRAPHIC INFORMATION**

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

**TARGET PROPERTY TOPOGRAPHY**

General Topographic Gradient: General NNE

**SURROUNDING TOPOGRAPHY: ELEVATION PROFILES**




Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

**HYDROLOGIC INFORMATION**

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

**FEMA FLOOD ZONE**

| Flood Plain Panel at Target Property | FEMA Source Type |
|---|---|
| 06065C1356G | FEMA FIRM Flood data |

| Additional Panels in search area: | FEMA Source Type |
|---|---|
| 06065C1352G | FEMA FIRM Flood data |
| 06065C1360G | FEMA FIRM Flood data |

**NATIONAL WETLAND INVENTORY**

| NWI Quad at Target Property | NWI Electronic Data Coverage |
|---|---|
| NOT AVAILABLE | YES - refer to the Overview Map and Detail Map |

**HYDROGEOLOGIC INFORMATION**

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

***Site-Specific Hydrogeological Data*:***

| | |
|---|---|
| Search Radius: | 1.25 miles |
| Status: | Not found |

**AQUIFLOW®**

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

| MAP ID | LOCATION FROM TP | GENERAL DIRECTION GROUNDWATER FLOW |
|---|---|---|
| A9 | 1/2 - 1 Mile NNE | Not Reported |
| 12 | 1/2 - 1 Mile West | Not Reported |
| 1G | 1/2 - 1 Mile NNE | Not Reported |
| 2G | 1/2 - 1 Mile West | Not Reported |

For additional site information, refer to Physical Setting Source Map Findings.

* ©1996 Site−specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

**GROUNDWATER FLOW VELOCITY INFORMATION**

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

**GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY**

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

**ROCK STRATIGRAPHIC UNIT**

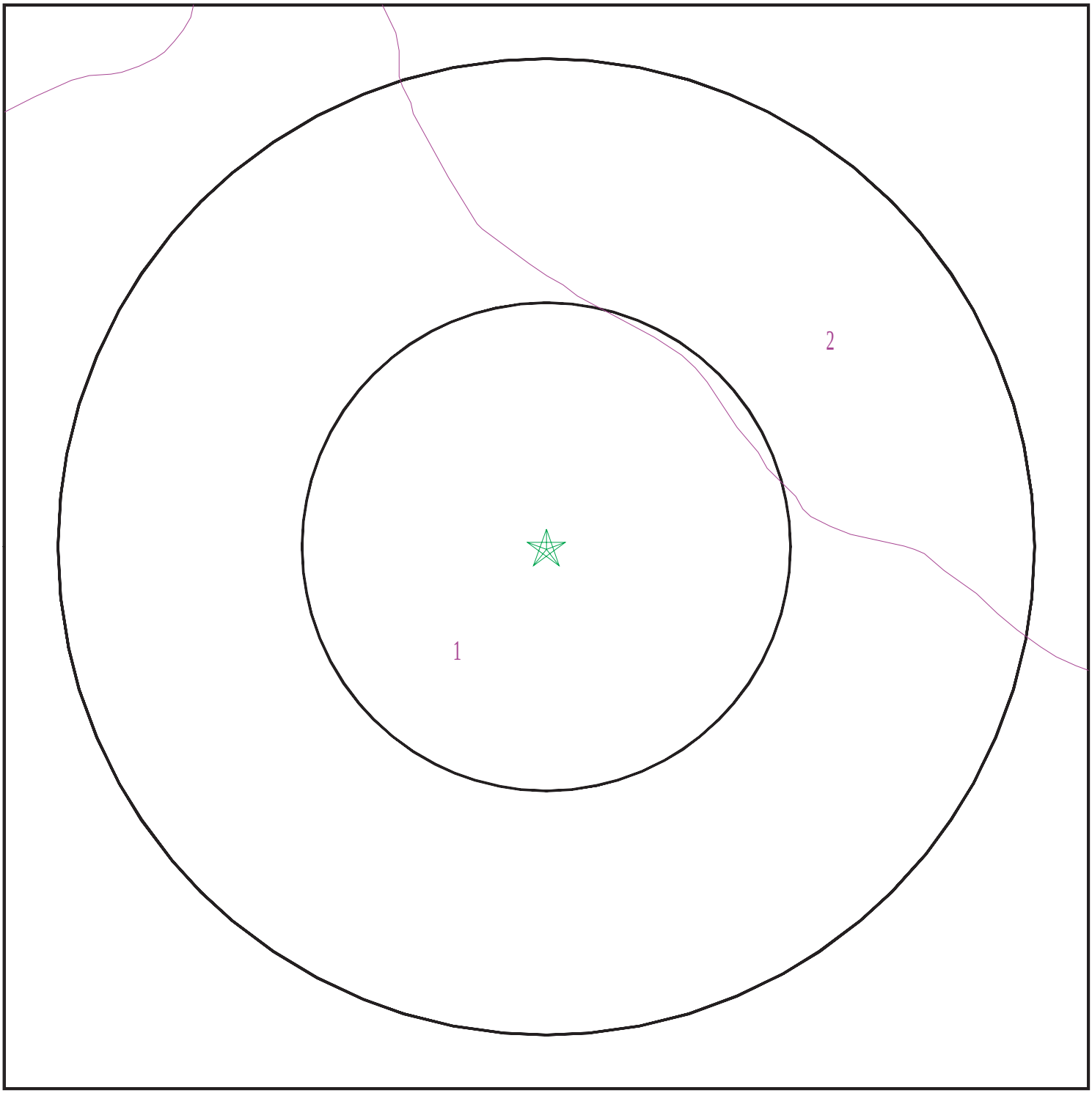
| | |
|---|---|
| Era: | Mesozoic |
| System: | Cretaceous |
| Series: | Cretaceous granitic rocks |
| Code: | Kg *(decoded above as Era, System & Series)* |

**GEOLOGIC AGE IDENTIFICATION**

Category: Plutonic and Intrusive Rocks

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

# SSURGO SOIL MAP - 7070636.2s




Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

| | | | |
|---|---|---|---|
| SITE NAME: | Centennial High School | CLIENT: | EEC |
| ADDRESS: | 1820 Rimpau Avenue<br>Corona CA 92881 | CONTACT: | Laura Holder |
| LAT/LONG: | 33.85837 / 117.547498 | INQUIRY #: | 7070636.2s |
| | | DATE: | July 29, 2022 2:42 pm |

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# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

**DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY**

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

---

**Soil Map ID: 1**

Soil Component Name: GARRETSON

Soil Surface Texture: gravelly very fine sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

**Soil Layer Information**

| | Boundary | | | Classification | | Saturated hydraulic conductivity micro m/sec | Soil Reaction (pH) |
|---|---|---|---|---|---|---|---|
| Layer | Upper | Lower | Soil Texture Class | AASHTO Group | Unified Soil | | |
| 1 | 0 inches | 9 inches | gravelly very fine sandy loam | Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils. | FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay | Max: 14<br>Min: 4 | Max: 7.8<br>Min: 6.1 |
| 2 | 9 inches | 53 inches | gravelly loam | Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils. | FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay | Max: 14<br>Min: 4 | Max: 7.8<br>Min: 6.1 |
| 3 | 53 inches | 72 inches | loam | Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils. | FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay | Max: 14<br>Min: 4 | Max: 7.8<br>Min: 6.1 |

**Soil Map ID: 2**

Soil Component Name: ARBUCKLE

Soil Surface Texture: gravelly loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

**Soil Layer Information**

| | Boundary | | | Classification | | Saturated hydraulic conductivity micro m/sec | Soil Reaction (pH) |
|---|---|---|---|---|---|---|---|
| Layer | Upper | Lower | Soil Texture Class | AASHTO Group | Unified Soil | | |
| 1 | 0 inches | 25 inches | gravelly loam | Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils. | COARSE-GRAINED SOILS, Gravels, Gravels with fines, Clayey Gravel | Max: 4<br>Min: 1.4 | Max: 7.8<br>Min: 5.6 |
| 2 | 25 inches | 44 inches | gravelly clay loam | Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils. | COARSE-GRAINED SOILS, Gravels, Gravels with fines, Clayey Gravel | Max: 4<br>Min: 1.4 | Max: 7.8<br>Min: 5.6 |
| 3 | 44 inches | 68 inches | stratified very gravelly sandy loam to very gravelly sandy clay loam | Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils. | COARSE-GRAINED SOILS, Gravels, Gravels with fines, Clayey Gravel | Max: 4<br>Min: 1.4 | Max: 7.8<br>Min: 5.6 |

**LOCAL / REGIONAL WATER AGENCY RECORDS**

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

**WELL SEARCH DISTANCE INFORMATION**

| DATABASE | SEARCH DISTANCE (miles) |
|---|---|
| Federal USGS | 1.000 |
| Federal FRDS PWS | Nearest PWS within 1 mile |
| State Database | 1.000 |

**FEDERAL USGS WELL INFORMATION**

| MAP ID | WELL ID | LOCATION FROM TP |
|---|---|---|
| 22 | USGS40000138680 | 1/2 - 1 Mile NE |

**FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION**

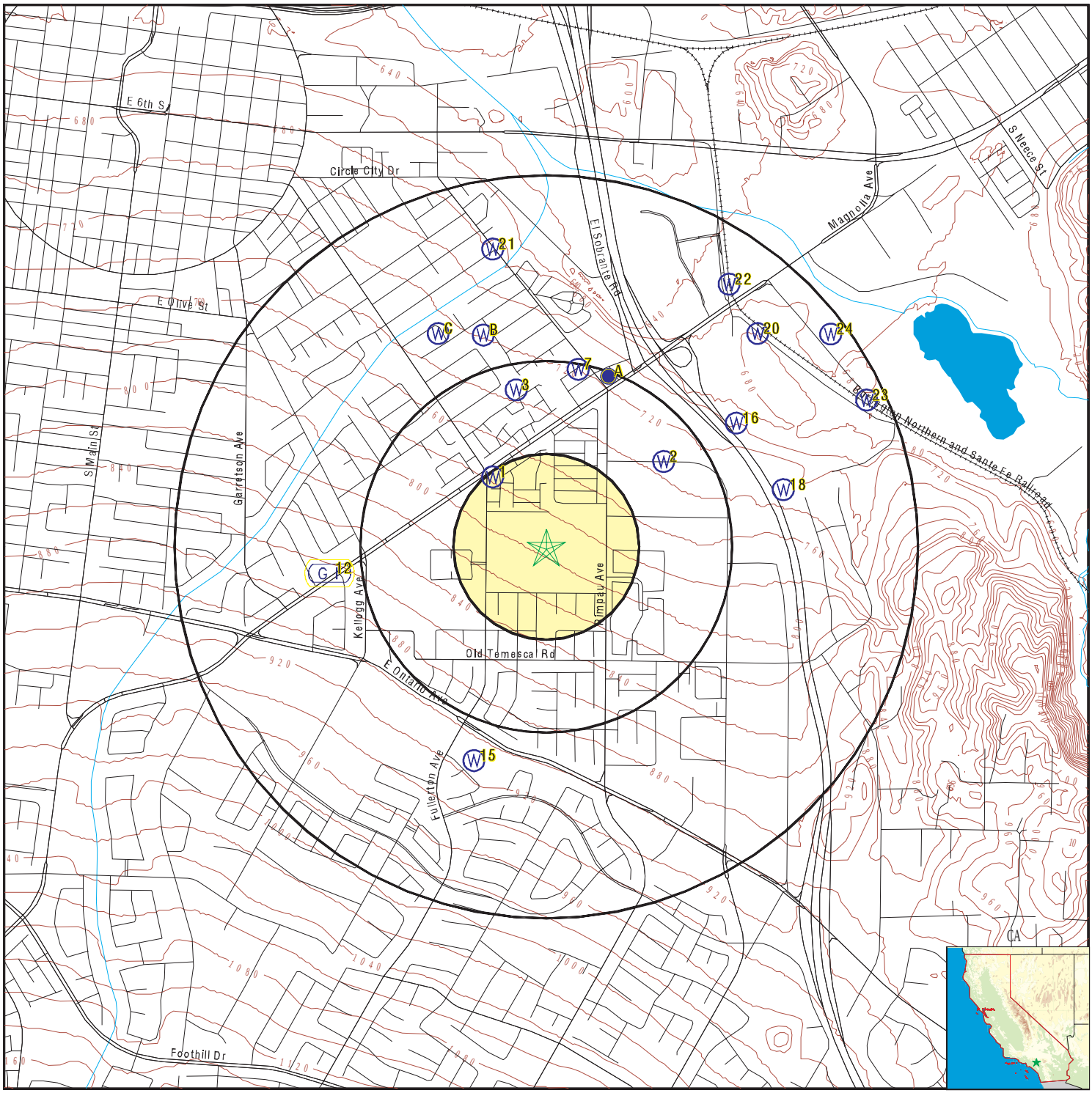
| MAP ID | WELL ID | LOCATION FROM TP |
|---|---|---|
| No PWS System Found | | |

Note: PWS System location is not always the same as well location.

**STATE DATABASE WELL INFORMATION**

| MAP ID | WELL ID | LOCATION FROM TP |
|---|---|---|
| 1 | CADPR0000005292 | 1/8 - 1/4 Mile NW |
| 2 | CADWR0000015466 | 1/4 - 1/2 Mile NE |
| 3 | CADDW0000002298 | 1/4 - 1/2 Mile North |
| A4 | CAEDF0000047826 | 1/4 - 1/2 Mile NNE |
| A5 | CAEDF0000035176 | 1/4 - 1/2 Mile NNE |
| A6 | CAEDF0000051944 | 1/4 - 1/2 Mile NNE |
| 7 | CADWR0000019792 | 1/4 - 1/2 Mile North |
| A8 | CAEDF0000119791 | 1/4 - 1/2 Mile NNE |
| B10 | CADDW0000022186 | 1/2 - 1 Mile NNW |
| B11 | CADDW0000009121 | 1/2 - 1 Mile NNW |
| B13 | 3593 | 1/2 - 1 Mile NNW |
| B14 | 3594 | 1/2 - 1 Mile NNW |
| 15 | 3595 | 1/2 - 1 Mile SSW |
| 16 | CAEDF0000087511 | 1/2 - 1 Mile ENE |
| C17 | CADPR0000004721 | 1/2 - 1 Mile NNW |
| 18 | CAEDF0000126313 | 1/2 - 1 Mile ENE |
| C19 | CADPR0000005454 | 1/2 - 1 Mile NNW |
| 20 | CAEDF0000021057 | 1/2 - 1 Mile NE |
| 21 | CADWR0000024118 | 1/2 - 1 Mile North |
| 23 | CAEDF0000017914 | 1/2 - 1 Mile ENE |
| 24 | 3591 | 1/2 - 1 Mile NE |

# PHYSICAL SETTING SOURCE MAP - 7070636.2s




- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data
- Oil, gas or related wells

| | | | |
|---|---|---|---|
| SITE NAME: | Centennial High School | CLIENT: | EEC |
| ADDRESS: | 1820 Rimpau Avenue<br>Corona CA 92881 | CONTACT: | Laura Holder |
| | | INQUIRY #: | 7070636.2s |
| LAT/LONG: | 33.85837 / 117.547498 | DATE: | July 29, 2022 2:42 pm |

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# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

**1**
**NW**
**1/8 - 1/4 Mile**
**Lower**

**CA WELLS** **CADPR0000005292**

| | | | |
|---|---|---|---|
| Well ID: | 80562 | Well Type: | UNK |
| Source: | Department of Pesticide Regulation | | |
| Other Name: | 80562 | GAMA PFAS Testing: | Not Reported |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DPR&samp_date=&global_id=&assigned_name=80562&store_num= | | |
| GeoTracker Data: | Not Reported | | |

---

**2**
**NE**
**1/4 - 1/2 Mile**
**Lower**

**CA WELLS** **CADWR0000015466**

| | | | |
|---|---|---|---|
| Well ID: | 03S06W31R001S | Well Type: | UNK |
| Source: | Department of Water Resources | | |
| Other Name: | 03S06W31R001S | GAMA PFAS Testing: | Not Reported |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=03S06W31R001S&store_num= | | |
| GeoTracker Data: | Not Reported | | |

---

**3**
**North**
**1/4 - 1/2 Mile**
**Lower**

**CA WELLS** **CADDW0000002298**

| | | | |
|---|---|---|---|
| Well ID: | 3310037-013 | Well Type: | MUNICIPAL |
| Source: | Department of Health Services | | |
| Other Name: | WELL 13 - INACTIVE | GAMA PFAS Testing: | Not Reported |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3310037-013&store_num= | | |
| GeoTracker Data: | Not Reported | | |

---

**A4**
**NNE**
**1/4 - 1/2 Mile**
**Lower**

**CA WELLS** **CAEDF0000047826**

| | | | |
|---|---|---|---|
| Well ID: | T0606500247-MW-1 | Well Type: | MONITORING |
| Source: | EDF | Other Name: | MW-1 |
| GAMA PFAS Testing: | Not Reported | | |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0606500247&assigned_name=MW-1&store_num= | | |
| GeoTracker Data: | https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0606500247&assigned_name=MW-1 | | |

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

**A5**
**NNE**
**1/4 - 1/2 Mile**
**Lower**

**CA WELLS** **CAEDF0000035176**

| | | | |
|---|---|---|---|
| Well ID: | T0606500247-MW-3 | Well Type: | MONITORING |
| Source: | EDF | Other Name: | MW-3 |
| GAMA PFAS Testing: | Not Reported | | |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0606500247&assigned_name=MW-3&store_num= | | |
| GeoTracker Data: | https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0606500247&assigned_name=MW-3 | | |

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**A6**
**NNE**
**1/4 - 1/2 Mile**
**Lower**

**CA WELLS** **CAEDF0000051944**

| | | | |
|---|---|---|---|
| Well ID: | T0606500247-MW-2 | Well Type: | MONITORING |
| Source: | EDF | Other Name: | MW-2 |
| GAMA PFAS Testing: | Not Reported | | |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0606500247&assigned_name=MW-2&store_num= | | |
| GeoTracker Data: | https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0606500247&assigned_name=MW-2 | | |

---

**7**
**North**
**1/4 - 1/2 Mile**
**Lower**

**CA WELLS** **CADWR0000019792**

| | | | |
|---|---|---|---|
| Well ID: | 03S06W31K001S | Well Type: | UNK |
| Source: | Department of Water Resources | | |
| Other Name: | 03S06W31K001S | GAMA PFAS Testing: | Not Reported |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=03S06W31K001S&store_num= | | |
| GeoTracker Data: | Not Reported | | |

---

**A8**
**NNE**
**1/4 - 1/2 Mile**
**Lower**

**CA WELLS** **CAEDF0000119791**

| | | | |
|---|---|---|---|
| Well ID: | T0606500247-MW-4 | Well Type: | MONITORING |
| Source: | EDF | Other Name: | MW-4 |
| GAMA PFAS Testing: | Not Reported | | |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0606500247&assigned_name=MW-4&store_num= | | |
| GeoTracker Data: | https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0606500247&assigned_name=MW-4 | | |

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

| | | | Database | EDR ID Number |
|---|---|---|---|---|
| **A9**<br>**NNE**<br>**1/2 - 1 Mile**<br>**Lower** | Site ID:<br>Groundwater Flow:<br>Shallow Water Depth:<br>Deep Water Depth:<br>Average Water Depth:<br>Date: | 083301917T<br>Not Reported<br>Not Reported<br>Not Reported<br>128<br>03/31/1996 | **AQUIFLOW** | **50800** |

---

**B10**
**NNW**
**1/2 - 1 Mile**
**Lower**

**CA WELLS** **CADDW0000022186**

| | | | |
|---|---|---|---|
| Well ID: | 3310037-006 | Well Type: | MUNICIPAL |
| Source: | Department of Health Services | | |
| Other Name: | WELL 06 - ABANDONED | GAMA PFAS Testing: | Not Reported |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3310037-006&store_num= | | |
| GeoTracker Data: | Not Reported | | |

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**B11**
**NNW**
**1/2 - 1 Mile**
**Lower**

**CA WELLS** **CADDW0000009121**

| | | | |
|---|---|---|---|
| Well ID: | 3310037-007 | Well Type: | MUNICIPAL |
| Source: | Department of Health Services | | |
| Other Name: | WELL 07 - DESTROYED | GAMA PFAS Testing: | Not Reported |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3310037-007&store_num= | | |
| GeoTracker Data: | Not Reported | | |

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| | | | Database | EDR ID Number |
|---|---|---|---|---|
| **12**<br>**West**<br>**1/2 - 1 Mile**<br>**Higher** | Site ID:<br>Groundwater Flow:<br>Shallow Water Depth:<br>Deep Water Depth:<br>Average Water Depth:<br>Date: | 083303020T<br>Not Reported<br>40’<br>50’<br>Not Reported<br>02/03/1998 | **AQUIFLOW** | **66391** |

---

**B13**
**NNW**
**1/2 - 1 Mile**
**Lower**

**CA WELLS** **3593**

| | | | |
|---|---|---|---|
| Seq: | 3593 | Prim sta c: | 03S/06W-31D01 S |
| Frds no: | 3310037007 | County: | 33 |
| District: | 14 | User id: | WAT |
| System no: | 3310037 | Water type: | G |
| Source nam: | WELL 07 | Station ty: | WELL/AMBNT/MUN/INTAKE |
| Latitude: | 335200.0 | Longitude: | 1173300.0 |
| Precision: | 4 | Status: | AR |
| Comment 1: | Not Reported | Comment 2: | Not Reported |
| Comment 3: | Not Reported | Comment 4: | Not Reported |
| Comment 5: | Not Reported | Comment 6: | Not Reported |

| | | | |
|---|---|---|---|
| Comment 7: | Not Reported | | |
| System no: | 3310037 | System nam: | Corona, City Of |
| Hqname: | Not Reported | Address: | P.O. Box 940 |
| City: | Corona | State: | CA |
| Zip: | 91718 | Zip ext: | Not Reported |
| Pop serv: | 104000 | Connection: | 25321 |
| Area serve: | CORONA AND VICINITY | | |

---

**B14**
**NNW** **CA WELLS 3594**
**1/2 - 1 Mile**
**Lower**

| | | | |
|---|---|---|---|
| Seq: | 3594 | Prim sta c: | 03S/06W-31D02 S |
| Frds no: | 3310037006 | County: | 33 |
| District: | 14 | User id: | WAT |
| System no: | 3310037 | Water type: | G |
| Source nam: | WELL 06 | Station ty: | WELL/AMBNT/MUN/INTAKE |
| Latitude: | 335200.0 | Longitude: | 1173300.0 |
| Precision: | 4 | Status: | AR |
| Comment 1: | Not Reported | Comment 2: | Not Reported |
| Comment 3: | Not Reported | Comment 4: | Not Reported |
| Comment 5: | Not Reported | Comment 6: | Not Reported |
| Comment 7: | Not Reported | | |
| System no: | 3310037 | System nam: | Corona, City Of |
| Hqname: | Not Reported | Address: | P.O. Box 940 |
| City: | Corona | State: | CA |
| Zip: | 91718 | Zip ext: | Not Reported |
| Pop serv: | 104000 | Connection: | 25321 |
| Area serve: | CORONA AND VICINITY | | |

---

**15**
**SSW** **CA WELLS 3595**
**1/2 - 1 Mile**
**Higher**

| | | | |
|---|---|---|---|
| Seq: | 3595 | Prim sta c: | 03S/06W-31K01 S |
| Frds no: | 3310037013 | County: | 33 |
| District: | 14 | User id: | WAT |
| System no: | 3310037 | Water type: | G |
| Source nam: | WELL 13 | Station ty: | WELL/AMBNT/MUN/INTAKE |
| Latitude: | 335100.0 | Longitude: | 1173300.0 |
| Precision: | 4 | Status: | AR |
| Comment 1: | Not Reported | Comment 2: | Not Reported |
| Comment 3: | Not Reported | Comment 4: | Not Reported |
| Comment 5: | Not Reported | Comment 6: | Not Reported |
| Comment 7: | Not Reported | | |
| System no: | 3310037 | System nam: | Corona, City Of |
| Hqname: | Not Reported | Address: | P.O. Box 940 |
| City: | Corona | State: | CA |
| Zip: | 91718 | Zip ext: | Not Reported |
| Pop serv: | 104000 | Connection: | 25321 |
| Area serve: | CORONA AND VICINITY | | |
| Sample date: | 01-SEP-16 | Finding: | 120. |
| Chemical: | TOTAL DISSOLVED SOLIDS | Report units: | MG/L |
| Dlr: | 0. | | |

| | | | |
|---|---|---|---|
| Sample date: | 01-SEP-16 | Finding: | 3.9 |
| Chemical: | CALCIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 01-SEP-16 | Finding: | 29. |
| Chemical: | BICARBONATE ALKALINITY | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 01-SEP-16 | Finding: | 24. |
| Chemical: | ALKALINITY (TOTAL) AS CACO3 | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 01-SEP-16 | Finding: | 8.2 |
| Chemical: | PH, FIELD | Report units: | Not Reported |
| Dlr: | 0. | | |
| Sample date: | 01-SEP-16 | Finding: | 11. |
| Chemical: | AGGRSSIVE INDEX (CORROSIVITY) | Report units: | Not Reported |
| Dlr: | 0. | | |
| Sample date: | 10-MAR-16 | Finding: | 80. |
| Chemical: | BICARBONATE ALKALINITY | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 10-MAR-16 | Finding: | 11. |
| Chemical: | AGGRSSIVE INDEX (CORROSIVITY) | Report units: | Not Reported |
| Dlr: | 0. | | |
| Sample date: | 10-MAR-16 | Finding: | 250. |
| Chemical: | TOTAL DISSOLVED SOLIDS | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 10-MAR-16 | Finding: | 25. |
| Chemical: | CALCIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 10-MAR-16 | Finding: | 65. |
| Chemical: | ALKALINITY (TOTAL) AS CACO3 | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 10-MAR-16 | Finding: | 7.4 |
| Chemical: | PH, FIELD | Report units: | Not Reported |
| Dlr: | 0. | | |
| Sample date: | 02-MAR-16 | Finding: | 21. |
| Chemical: | NITRATE (AS N) | Report units: | MG/L |
| Dlr: | 0.4 | | |
| Sample date: | 02-MAR-16 | Finding: | 750. |
| Chemical: | TOTAL DISSOLVED SOLIDS | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 02-MAR-16 | Finding: | 4.3 |
| Chemical: | VANADIUM | Report units: | UG/L |
| Dlr: | 3. | | |
| Sample date: | 17-FEB-16 | Finding: | 21. |
| Chemical: | NITRATE (AS N) | Report units: | MG/L |
| Dlr: | 0.4 | | |
| Sample date: | 03-FEB-16 | Finding: | 7.2 |
| Chemical: | PH, FIELD | Report units: | Not Reported |

| | | | |
|---|---|---|---|
| Dlr: | 0. | | |
| Sample date: | 03-FEB-16 | Finding: | 21. |
| Chemical: | NITRATE (AS N) | Report units: | MG/L |
| Dlr: | 0.4 | | |
| Sample date: | 17-DEC-15 | Finding: | 11. |
| Chemical: | AGGRSSIVE INDEX (CORROSIVITY) | Report units: | Not Reported |
| Dlr: | 0. | | |
| Sample date: | 17-DEC-15 | Finding: | 7.2 |
| Chemical: | PH, FIELD | Report units: | Not Reported |
| Dlr: | 0. | | |
| Sample date: | 17-DEC-15 | Finding: | 48. |
| Chemical: | ALKALINITY (TOTAL) AS CACO3 | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 17-DEC-15 | Finding: | 59. |
| Chemical: | BICARBONATE ALKALINITY | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 17-DEC-15 | Finding: | 18. |
| Chemical: | CALCIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 17-DEC-15 | Finding: | 210. |
| Chemical: | TOTAL DISSOLVED SOLIDS | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 13-OCT-15 | Finding: | 89. |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 16-SEP-15 | Finding: | 4.7 |
| Chemical: | VANADIUM | Report units: | UG/L |
| Dlr: | 3. | | |
| Sample date: | 16-SEP-15 | Finding: | 3.1e-002 |
| Chemical: | DIBROMOCHLOROPROPANE (DBCP) | Report units: | UG/L |
| Dlr: | 1.e-002 | | |
| Sample date: | 16-SEP-15 | Finding: | 820. |
| Chemical: | TOTAL DISSOLVED SOLIDS | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 16-SEP-15 | Finding: | 95. |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 02-SEP-15 | Finding: | 7.7 |
| Chemical: | PH, FIELD | Report units: | Not Reported |
| Dlr: | 0. | | |
| Sample date: | 02-SEP-15 | Finding: | 53. |
| Chemical: | ALKALINITY (TOTAL) AS CACO3 | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 02-SEP-15 | Finding: | 64. |
| Chemical: | BICARBONATE ALKALINITY | Report units: | MG/L |
| Dlr: | 0. | | |

| | | | |
|---|---|---|---|
| Sample date: | 02-SEP-15 | Finding: | 19. |
| Chemical: | CALCIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 02-SEP-15 | Finding: | 210. |
| Chemical: | TOTAL DISSOLVED SOLIDS | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 02-SEP-15 | Finding: | 92. |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 02-SEP-15 | Finding: | 11. |
| Chemical: | AGGRSSIVE INDEX (CORROSIVITY) | Report units: | Not Reported |
| Dlr: | 0. | | |
| Sample date: | 20-AUG-15 | Finding: | 240. |
| Chemical: | BICARBONATE ALKALINITY | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 20-AUG-15 | Finding: | 12. |
| Chemical: | AGGRSSIVE INDEX (CORROSIVITY) | Report units: | Not Reported |
| Dlr: | 0. | | |
| Sample date: | 20-AUG-15 | Finding: | 7.4e-002 |
| Chemical: | TURBIDITY, LABORATORY | Report units: | NTU |
| Dlr: | 0.1 | | |
| Sample date: | 20-AUG-15 | Finding: | 1. |
| Chemical: | LANGELIER INDEX @ 60 C | Report units: | Not Reported |
| Dlr: | 0. | | |
| Sample date: | 20-AUG-15 | Finding: | 790. |
| Chemical: | TOTAL DISSOLVED SOLIDS | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 20-AUG-15 | Finding: | 2.6e-002 |
| Chemical: | DIBROMOCHLOROPROPANE (DBCP) | Report units: | UG/L |
| Dlr: | 1.e-002 | | |
| Sample date: | 20-AUG-15 | Finding: | 6.6e-002 |
| Chemical: | FOAMING AGENTS (MBAS) | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 20-AUG-15 | Finding: | 5.2 |
| Chemical: | SELENIUM | Report units: | UG/L |
| Dlr: | 5. | | |
| Sample date: | 20-AUG-15 | Finding: | 0.36 |
| Chemical: | FLUORIDE (F) (NATURAL-SOURCE) | Report units: | MG/L |
| Dlr: | 0.1 | | |
| Sample date: | 20-AUG-15 | Finding: | 170. |
| Chemical: | SULFATE | Report units: | MG/L |
| Dlr: | 0.5 | | |
| Sample date: | 20-AUG-15 | Finding: | 110. |
| Chemical: | CHLORIDE | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 20-AUG-15 | Finding: | 2.4 |
| Chemical: | POTASSIUM | Report units: | MG/L |

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| Dlr: | 0. | | |
| Sample date: | 20-AUG-15 | Finding: | 86. |
| Chemical: | SODIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 20-AUG-15 | Finding: | 28. |
| Chemical: | MAGNESIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 20-AUG-15 | Finding: | 110. |
| Chemical: | CALCIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 20-AUG-15 | Finding: | 390. |
| Chemical: | HARDNESS (TOTAL) AS CACO3 | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 20-AUG-15 | Finding: | 200. |
| Chemical: | ALKALINITY (TOTAL) AS CACO3 | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 20-AUG-15 | Finding: | 7.6 |
| Chemical: | PH, LABORATORY | Report units: | Not Reported |
| Dlr: | 0. | | |
| Sample date: | 20-AUG-15 | Finding: | 1200. |
| Chemical: | SPECIFIC CONDUCTANCE | Report units: | US |
| Dlr: | 0. | | |
| Sample date: | 20-AUG-15 | Finding: | 2. |
| Chemical: | ODOR THRESHOLD @ 60 C | Report units: | TON |
| Dlr: | 1. | | |
| Sample date: | 19-AUG-15 | Finding: | 91. |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 05-AUG-15 | Finding: | 93. |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 22-JUL-15 | Finding: | 93. |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 08-JUL-15 | Finding: | 92. |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 17-JUN-15 | Finding: | 95. |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 10-JUN-15 | Finding: | 6.1 |
| Chemical: | VANADIUM | Report units: | UG/L |
| Dlr: | 3. | | |
| Sample date: | 10-JUN-15 | Finding: | 730. |
| Chemical: | TOTAL DISSOLVED SOLIDS | Report units: | MG/L |
| Dlr: | 0. | | |

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| Sample date: | 10-JUN-15 | Finding: | 2.6e-002 |
| Chemical: | DIBROMOCHLOROPROPANE (DBCP) | Report units: | UG/L |
| Dlr: | 1.e-002 | | |
| Sample date: | 03-JUN-15 | Finding: | 96. |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 20-MAY-15 | Finding: | 94. |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 05-MAY-15 | Finding: | 90. |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 15-APR-15 | Finding: | 94. |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 01-APR-15 | Finding: | 92. |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 18-MAR-15 | Finding: | 92. |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 11-MAR-15 | Finding: | 4.8 |
| Chemical: | VANADIUM | Report units: | UG/L |
| Dlr: | 3. | | |
| Sample date: | 11-MAR-15 | Finding: | 2.3e-002 |
| Chemical: | DIBROMOCHLOROPROPANE (DBCP) | Report units: | UG/L |
| Dlr: | 1.e-002 | | |
| Sample date: | 11-MAR-15 | Finding: | 790. |
| Chemical: | TOTAL DISSOLVED SOLIDS | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 04-MAR-15 | Finding: | 93. |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 18-FEB-15 | Finding: | 90. |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 04-FEB-15 | Finding: | 89. |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 21-JAN-15 | Finding: | 88. |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 07-JAN-15 | Finding: | 89. |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 16-DEC-14 | Finding: | 91. |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |

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| Dlr: | 2. | | |
| Sample date: | 16-DEC-14 | Finding: | 800. |
| Chemical: | TOTAL DISSOLVED SOLIDS | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 16-DEC-14 | Finding: | 2.4e-002 |
| Chemical: | DIBROMOCHLOROPROPANE (DBCP) | Report units: | UG/L |
| Dlr: | 1.e-002 | | |
| Sample date: | 03-DEC-14 | Finding: | 97. |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 19-NOV-14 | Finding: | 92. |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 05-NOV-14 | Finding: | 93. |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 15-OCT-14 | Finding: | 87. |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 01-OCT-14 | Finding: | 91. |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 17-SEP-14 | Finding: | 90. |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 10-SEP-14 | Finding: | 770. |
| Chemical: | TOTAL DISSOLVED SOLIDS | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 10-SEP-14 | Finding: | 2.6e-002 |
| Chemical: | DIBROMOCHLOROPROPANE (DBCP) | Report units: | UG/L |
| Dlr: | 1.e-002 | | |
| Sample date: | 10-SEP-14 | Finding: | 8.7 |
| Chemical: | VANADIUM | Report units: | UG/L |
| Dlr: | 3. | | |
| Sample date: | 03-SEP-14 | Finding: | 93. |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 28-AUG-14 | Finding: | 250. |
| Chemical: | BICARBONATE ALKALINITY | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 28-AUG-14 | Finding: | 13. |
| Chemical: | AGGRSSIVE INDEX (CORROSIVITY) | Report units: | Not Reported |
| Dlr: | 0. | | |
| Sample date: | 28-AUG-14 | Finding: | 7.2e-002 |
| Chemical: | TURBIDITY, LABORATORY | Report units: | NTU |
| Dlr: | 0.1 | | |

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| Sample date: | 28-AUG-14 | Finding: | 1.2 |
| Chemical: | LANGELIER INDEX @ 60 C | Report units: | Not Reported |
| Dlr: | 0. | | |
| Sample date: | 28-AUG-14 | Finding: | 760. |
| Chemical: | TOTAL DISSOLVED SOLIDS | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 28-AUG-14 | Finding: | 2.3e-002 |
| Chemical: | DIBROMOCHLOROPROPANE (DBCP) | Report units: | UG/L |
| Dlr: | 1.e-002 | | |
| Sample date: | 28-AUG-14 | Finding: | 7.2 |
| Chemical: | ARSENIC | Report units: | UG/L |
| Dlr: | 2. | | |
| Sample date: | 28-AUG-14 | Finding: | 0.37 |
| Chemical: | FLUORIDE (F) (NATURAL-SOURCE) | Report units: | MG/L |
| Dlr: | 0.1 | | |
| Sample date: | 28-AUG-14 | Finding: | 160. |
| Chemical: | SULFATE | Report units: | MG/L |
| Dlr: | 0.5 | | |
| Sample date: | 28-AUG-14 | Finding: | 100. |
| Chemical: | CHLORIDE | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 28-AUG-14 | Finding: | 2.2 |
| Chemical: | POTASSIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 28-AUG-14 | Finding: | 83. |
| Chemical: | SODIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 28-AUG-14 | Finding: | 26. |
| Chemical: | MAGNESIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 28-AUG-14 | Finding: | 110. |
| Chemical: | CALCIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 28-AUG-14 | Finding: | 380. |
| Chemical: | HARDNESS (TOTAL) AS CACO3 | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 28-AUG-14 | Finding: | 200. |
| Chemical: | ALKALINITY (TOTAL) AS CACO3 | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 28-AUG-14 | Finding: | 7.8 |
| Chemical: | PH, LABORATORY | Report units: | Not Reported |
| Dlr: | 0. | | |
| Sample date: | 28-AUG-14 | Finding: | 1200. |
| Chemical: | SPECIFIC CONDUCTANCE | Report units: | US |
| Dlr: | 0. | | |
| Sample date: | 28-AUG-14 | Finding: | 2. |
| Chemical: | ODOR THRESHOLD @ 60 C | Report units: | TON |

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| Dlr: | 1. | | |
| Sample date: | 20-AUG-14 | Finding: | 92. |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 06-AUG-14 | Finding: | 93. |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 16-JUL-14 | Finding: | 94. |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 03-JUL-14 | Finding: | 94. |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 18-JUN-14 | Finding: | 91. |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 11-JUN-14 | Finding: | 3.5 |
| Chemical: | VANADIUM | Report units: | UG/L |
| Dlr: | 3. | | |
| Sample date: | 11-JUN-14 | Finding: | 760. |
| Chemical: | TOTAL DISSOLVED SOLIDS | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 11-JUN-14 | Finding: | 2.5e-002 |
| Chemical: | DIBROMOCHLOROPROPANE (DBCP) | Report units: | UG/L |
| Dlr: | 1.e-002 | | |
| Sample date: | 04-JUN-14 | Finding: | 92. |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 21-MAY-14 | Finding: | 91. |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 07-MAY-14 | Finding: | 89. |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 16-APR-14 | Finding: | 90. |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 02-APR-14 | Finding: | 90. |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 19-MAR-14 | Finding: | 89. |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 12-MAR-14 | Finding: | 4.7 |
| Chemical: | VANADIUM | Report units: | UG/L |
| Dlr: | 3. | | |

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| Sample date: | 12-MAR-14 | Finding: | 2.8e-002 |
| Chemical: | DIBROMOCHLOROPROPANE (DBCP) | Report units: | UG/L |
| Dlr: | 1.e-002 | | |
| Sample date: | 12-MAR-14 | Finding: | 730. |
| Chemical: | TOTAL DISSOLVED SOLIDS | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 06-MAR-14 | Finding: | 89. |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 20-FEB-14 | Finding: | 89. |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 05-FEB-14 | Finding: | 91. |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 22-JAN-14 | Finding: | 91. |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 08-JAN-14 | Finding: | 95. |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 18-DEC-13 | Finding: | 92. |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 10-DEC-13 | Finding: | 740. |
| Chemical: | TOTAL DISSOLVED SOLIDS | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 10-DEC-13 | Finding: | 2.8e-002 |
| Chemical: | DIBROMOCHLOROPROPANE (DBCP) | Report units: | UG/L |
| Dlr: | 1.e-002 | | |
| Sample date: | 10-DEC-13 | Finding: | 3.9 |
| Chemical: | VANADIUM | Report units: | UG/L |
| Dlr: | 3. | | |
| Sample date: | 04-DEC-13 | Finding: | 89. |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 20-NOV-13 | Finding: | 87. |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 06-NOV-13 | Finding: | 90. |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 16-OCT-13 | Finding: | 91. |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 02-OCT-13 | Finding: | 92. |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |

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| Dlr: | 2. | | |
| Sample date: | 18-SEP-13 | Finding: | 92. |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 11-SEP-13 | Finding: | 94. |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 11-SEP-13 | Finding: | 3.4 |
| Chemical: | VANADIUM | Report units: | UG/L |
| Dlr: | 3. | | |
| Sample date: | 11-SEP-13 | Finding: | 3.1e-002 |
| Chemical: | DIBROMOCHLOROPROPANE (DBCP) | Report units: | UG/L |
| Dlr: | 1.e-002 | | |
| Sample date: | 11-SEP-13 | Finding: | 790. |
| Chemical: | TOTAL DISSOLVED SOLIDS | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 22-AUG-13 | Finding: | 2.1e-002 |
| Chemical: | DIBROMOCHLOROPROPANE (DBCP) | Report units: | UG/L |
| Dlr: | 1.e-002 | | |
| Sample date: | 22-AUG-13 | Finding: | 9.e-002 |
| Chemical: | TURBIDITY, LABORATORY | Report units: | NTU |
| Dlr: | 0.1 | | |
| Sample date: | 22-AUG-13 | Finding: | 2. |
| Chemical: | ODOR THRESHOLD @ 60 C | Report units: | TON |
| Dlr: | 1. | | |
| Sample date: | 22-AUG-13 | Finding: | 1200. |
| Chemical: | SPECIFIC CONDUCTANCE | Report units: | US |
| Dlr: | 0. | | |
| Sample date: | 22-AUG-13 | Finding: | 7.7 |
| Chemical: | PH, LABORATORY | Report units: | Not Reported |
| Dlr: | 0. | | |
| Sample date: | 22-AUG-13 | Finding: | 1.1 |
| Chemical: | LANGELIER INDEX @ 60 C | Report units: | Not Reported |
| Dlr: | 0. | | |
| Sample date: | 22-AUG-13 | Finding: | 13. |
| Chemical: | AGGRSSIVE INDEX (CORROSIVITY) | Report units: | Not Reported |
| Dlr: | 0. | | |
| Sample date: | 22-AUG-13 | Finding: | 740. |
| Chemical: | TOTAL DISSOLVED SOLIDS | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 22-AUG-13 | Finding: | 0.35 |
| Chemical: | FLUORIDE (F) (NATURAL-SOURCE) | Report units: | MG/L |
| Dlr: | 0.1 | | |
| Sample date: | 22-AUG-13 | Finding: | 160. |
| Chemical: | SULFATE | Report units: | MG/L |
| Dlr: | 0.5 | | |

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| Sample date: | 22-AUG-13 | Finding: | 100. |
| Chemical: | CHLORIDE | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 22-AUG-13 | Finding: | 2.6 |
| Chemical: | POTASSIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 22-AUG-13 | Finding: | 88. |
| Chemical: | SODIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 22-AUG-13 | Finding: | 28. |
| Chemical: | MAGNESIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 22-AUG-13 | Finding: | 120. |
| Chemical: | CALCIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 22-AUG-13 | Finding: | 410. |
| Chemical: | HARDNESS (TOTAL) AS CACO3 | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 22-AUG-13 | Finding: | 230. |
| Chemical: | BICARBONATE ALKALINITY | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 22-AUG-13 | Finding: | 190. |
| Chemical: | ALKALINITY (TOTAL) AS CACO3 | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 21-AUG-13 | Finding: | 92. |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 07-AUG-13 | Finding: | 91. |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 17-JUL-13 | Finding: | 91. |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 03-JUL-13 | Finding: | 90. |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 19-JUN-13 | Finding: | 95. |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 06-JUN-13 | Finding: | 99. |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 06-JUN-13 | Finding: | 730. |
| Chemical: | TOTAL DISSOLVED SOLIDS | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 06-JUN-13 | Finding: | 2.4e-002 |
| Chemical: | DIBROMOCHLOROPROPANE (DBCP) | Report units: | UG/L |

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| Dlr: | 1.e-002 | | |
| Sample date: | 06-JUN-13 | Finding: | 3.5 |
| Chemical: | VANADIUM | Report units: | UG/L |
| Dlr: | 3. | | |
| Sample date: | 06-JUN-13 | Finding: | 5.8 |
| Chemical: | PERCHLORATE | Report units: | UG/L |
| Dlr: | 4. | | |
| Sample date: | 15-MAY-13 | Finding: | 96. |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 01-MAY-13 | Finding: | 94. |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 17-APR-13 | Finding: | 94. |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 20-MAR-13 | Finding: | 92. |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 06-MAR-13 | Finding: | 720. |
| Chemical: | TOTAL DISSOLVED SOLIDS | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 06-MAR-13 | Finding: | 94. |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 21-FEB-13 | Finding: | 95. |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 13-FEB-13 | Finding: | 97. |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 06-FEB-13 | Finding: | 3.19 |
| Chemical: | GROSS ALPHA COUNTING ERROR | Report units: | PCI/L |
| Dlr: | 0. | | |
| Sample date: | 06-FEB-13 | Finding: | 0.417 |
| Chemical: | RADIUM 228 COUNTING ERROR | Report units: | PCI/L |
| Dlr: | 0. | | |
| Sample date: | 06-FEB-13 | Finding: | 2.3 |
| Chemical: | URANIUM (PCI/L) | Report units: | PCI/L |
| Dlr: | 1. | | |
| Sample date: | 06-FEB-13 | Finding: | 0.982 |
| Chemical: | URANIUM COUNTING ERROR | Report units: | PCI/L |
| Dlr: | 0. | | |
| Sample date: | 06-FEB-13 | Finding: | 2.16 |
| Chemical: | GROSS ALPHA MDA95 | Report units: | PCI/L |
| Dlr: | 0. | | |

| | | | |
|---|---|---|---|
| Sample date: | 06-FEB-13 | Finding: | 0.439 |
| Chemical: | URANIUM MDA95 | Report units: | PCI/L |
| Dlr: | 0. | | |
| Sample date: | 06-FEB-13 | Finding: | 0.201 |
| Chemical: | RADIUM 228 MDA95 | Report units: | PCI/L |
| Dlr: | 0. | | |
| Sample date: | 06-FEB-13 | Finding: | 0.439 |
| Chemical: | RADIUM, TOTAL, MDA95-NTNC ONLY, BY 903.0 | | |
| Report units: | PCI/L | Dlr: | 0. |
| Sample date: | 06-FEB-13 | Finding: | 0.23 |
| Chemical: | RA-226 OR TOTAL RA BY 903.0 C.E. | Report units: | PCI/L |
| Dlr: | 0. | | |
| Sample date: | 16-JAN-13 | Finding: | 97. |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 09-JAN-13 | Finding: | 91. |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 19-DEC-12 | Finding: | 93. |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 12-DEC-12 | Finding: | 90. |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 12-DEC-12 | Finding: | 780. |
| Chemical: | TOTAL DISSOLVED SOLIDS | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 12-DEC-12 | Finding: | 3.2 |
| Chemical: | VANADIUM | Report units: | UG/L |
| Dlr: | 3. | | |
| Sample date: | 28-NOV-12 | Finding: | 93. |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 07-NOV-12 | Finding: | 95. |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 17-OCT-12 | Finding: | 95. |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 26-SEP-12 | Finding: | 98. |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 12-SEP-12 | Finding: | 92. |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 12-SEP-12 | Finding: | 3.3 |
| Chemical: | VANADIUM | Report units: | UG/L |

| | | | |
|---|---|---|---|
| Dlr: | 3. | | |
| Sample date: | 12-SEP-12 | Finding: | 760. |
| Chemical: | TOTAL DISSOLVED SOLIDS | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 12-SEP-12 | Finding: | 9.7 |
| Chemical: | PERCHLORATE | Report units: | UG/L |
| Dlr: | 4. | | |
| Sample date: | 22-AUG-12 | Finding: | 95. |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 01-AUG-12 | Finding: | 95. |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 25-JUL-12 | Finding: | 92. |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 13-JUN-12 | Finding: | 9.4 |
| Chemical: | PERCHLORATE | Report units: | UG/L |
| Dlr: | 4. | | |
| Sample date: | 13-JUN-12 | Finding: | 820. |
| Chemical: | TOTAL DISSOLVED SOLIDS | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 13-JUN-12 | Finding: | 3.e-002 |
| Chemical: | DIBROMOCHLOROPROPANE (DBCP) | Report units: | UG/L |
| Dlr: | 1.e-002 | | |
| Sample date: | 13-JUN-12 | Finding: | 0.4 |
| Chemical: | FLUORIDE (F) (NATURAL-SOURCE) | Report units: | MG/L |
| Dlr: | 0.1 | | |
| Sample date: | 13-JUN-12 | Finding: | 160. |
| Chemical: | SULFATE | Report units: | MG/L |
| Dlr: | 0.5 | | |
| Sample date: | 13-JUN-12 | Finding: | 110. |
| Chemical: | CHLORIDE | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 13-JUN-12 | Finding: | 84. |
| Chemical: | SODIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 13-JUN-12 | Finding: | 26. |
| Chemical: | MAGNESIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 13-JUN-12 | Finding: | 120. |
| Chemical: | CALCIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 13-JUN-12 | Finding: | 410. |
| Chemical: | HARDNESS (TOTAL) AS CACO3 | Report units: | MG/L |
| Dlr: | 0. | | |

| | | | |
|---|---|---|---|
| Sample date: | 13-JUN-12 | Finding: | 240. |
| Chemical: | BICARBONATE ALKALINITY | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 13-JUN-12 | Finding: | 200. |
| Chemical: | ALKALINITY (TOTAL) AS CACO3 | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 13-JUN-12 | Finding: | 7.4 |
| Chemical: | PH, LABORATORY | Report units: | Not Reported |
| Dlr: | 0. | | |
| Sample date: | 13-JUN-12 | Finding: | 1200. |
| Chemical: | SPECIFIC CONDUCTANCE | Report units: | US |
| Dlr: | 0. | | |
| Sample date: | 13-JUN-12 | Finding: | 2.8 |
| Chemical: | POTASSIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 06-JUN-12 | Finding: | 6.1 |
| Chemical: | VANADIUM | Report units: | UG/L |
| Dlr: | 3. | | |
| Sample date: | 06-JUN-12 | Finding: | 92. |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 16-MAY-12 | Finding: | 93. |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 02-MAY-12 | Finding: | 97. |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 18-APR-12 | Finding: | 97. |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 04-APR-12 | Finding: | 97. |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 28-MAR-12 | Finding: | 98. |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 14-MAR-12 | Finding: | 3.5 |
| Chemical: | VANADIUM | Report units: | UG/L |
| Dlr: | 3. | | |
| Sample date: | 14-MAR-12 | Finding: | 780. |
| Chemical: | TOTAL DISSOLVED SOLIDS | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 14-MAR-12 | Finding: | 94. |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 14-MAR-12 | Finding: | 7.9 |
| Chemical: | PERCHLORATE | Report units: | UG/L |

| | | | |
|---|---|---|---|
| Dlr: | 4. | | |
| Sample date: | 15-FEB-12 | Finding: | 89. |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 07-FEB-12 | Finding: | 9. |
| Chemical: | PERCHLORATE | Report units: | UG/L |
| Dlr: | 4. | | |
| Sample date: | 07-FEB-12 | Finding: | 770. |
| Chemical: | TOTAL DISSOLVED SOLIDS | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 07-FEB-12 | Finding: | 88. |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |

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**16**
**ENE** **CA WELLS** **CAEDF0000087511**
**1/2 - 1 Mile**
**Lower**

| | | | |
|---|---|---|---|
| Well ID: | L10005490322-CG-02 | Well Type: | MONITORING |
| Source: | EDF | Other Name: | CG-02 |
| GAMA PFAS Testing: | Not Reported | | |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=L10005490322&assigned_name=CG-02&store_num= | | |
| GeoTracker Data: | https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=L10005490322&assigned_name=CG-02 | | |

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**C17**
**NNW** **CA WELLS** **CADPR0000004721**
**1/2 - 1 Mile**
**Lower**

| | | | |
|---|---|---|---|
| Well ID: | 80563 | Well Type: | UNK |
| Source: | Department of Pesticide Regulation | | |
| Other Name: | 80563 | GAMA PFAS Testing: | Not Reported |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DPR&samp_date=&global_id=&assigned_name=80563&store_num= | | |
| GeoTracker Data: | Not Reported | | |

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**18**
**ENE** **CA WELLS** **CAEDF0000126313**
**1/2 - 1 Mile**
**Lower**

| | | | |
|---|---|---|---|
| Well ID: | L10005490322-CG-03 | Well Type: | MONITORING |
| Source: | EDF | Other Name: | CG-03 |
| GAMA PFAS Testing: | Not Reported | | |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=L10005490322&assigned_name=CG-03&store_num= | | |
| GeoTracker Data: | https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=L10005490322&assigned_name=CG-03 | | |

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

**C19**
**NNW**
**1/2 - 1 Mile**
**Lower**

**CA WELLS** **CADPR0000005454**

| | | | |
|---|---|---|---|
| Well ID: | 80564 | Well Type: | UNK |
| Source: | Department of Pesticide Regulation | | |
| Other Name: | 80564 | GAMA PFAS Testing: | Not Reported |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DPR&samp_date=&global_id=&assigned_name=80564&store_num= | | |
| GeoTracker Data: | Not Reported | | |

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**20**
**NE**
**1/2 - 1 Mile**
**Lower**

**CA WELLS** **CAEDF0000021057**

| | | | |
|---|---|---|---|
| Well ID: | L10005490322-CG-01 | Well Type: | MONITORING |
| Source: | EDF | Other Name: | CG-01 |
| GAMA PFAS Testing: | Not Reported | | |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=L10005490322&assigned_name=CG-01&store_num= | | |
| GeoTracker Data: | https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=L10005490322&assigned_name=CG-01 | | |

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**21**
**North**
**1/2 - 1 Mile**
**Lower**

**CA WELLS** **CADWR0000024118**

| | | | |
|---|---|---|---|
| Well ID: | 03S06W31D001S | Well Type: | UNK |
| Source: | Department of Water Resources | | |
| Other Name: | 03S06W31D001S | GAMA PFAS Testing: | Not Reported |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=03S06W31D001S&store_num= | | |
| GeoTracker Data: | Not Reported | | |

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**22**
**NE**
**1/2 - 1 Mile**
**Lower**

**FED USGS** **USGS40000138680**

| | | | |
|---|---|---|---|
| Organization ID: | USGS-CA | | |
| Organization Name: | USGS California Water Science Center | | |
| Monitor Location: | 002S006W29F002S | Type: | Well |
| Description: | Not Reported | HUC: | 18070203 |
| Drainage Area: | Not Reported | Drainage Area Units: | Not Reported |
| Contrib Drainage Area: | Not Reported | Contrib Drainage Area Unts: | Not Reported |
| Aquifer: | California Coastal Basin aquifers | | |
| Formation Type: | Not Reported | Aquifer Type: | Not Reported |
| Construction Date: | Not Reported | Well Depth: | 193 |
| Well Depth Units: | ft | Well Hole Depth: | Not Reported |
| Well Hole Depth Units: | Not Reported | | |

| Map ID<br>Direction<br>Distance<br>Elevation | | | Database | EDR ID Number |
|---|---|---|---|---|
| **23**<br>**ENE**<br>**1/2 - 1 Mile**<br>**Lower** | | | **CA WELLS** | **CAEDF0000017914** |

| | | | |
|---|---|---|---|
| Well ID: | L10005490322-CG-06A | Well Type: | MONITORING |
| Source: | EDF | Other Name: | CG-06A |
| GAMA PFAS Testing: | Not Reported | | |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=L10005490322&assigned_name=CG-06A&store_num= | | |
| GeoTracker Data: | https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=L10005490322&assigned_name=CG-06A | | |

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| | | | |
|---|---|---|---|
| **24**<br>**NE**<br>**1/2 - 1 Mile**<br>**Lower** | | **CA WELLS** | **3591** |

| | | | |
|---|---|---|---|
| Seq: | 3591 | Prim sta c: | 03S/06W-29Q02 S |
| Frds no: | 3310037005 | County: | 33 |
| District: | 14 | User id: | WAT |
| System no: | 3310037 | Water type: | G |
| Source nam: | WELL 05 - DESTROYED | Station ty: | WELL/AMBNT |
| Latitude: | 335200.0 | Longitude: | 1173200.0 |
| Precision: | 4 | Status: | DS |
| Comment 1: | Not Reported | Comment 2: | Not Reported |
| Comment 3: | Not Reported | Comment 4: | Not Reported |
| Comment 5: | Not Reported | Comment 6: | Not Reported |
| Comment 7: | Not Reported | | |

| | | | |
|---|---|---|---|
| System no: | 3310037 | System nam: | Corona, City Of |
| Hqname: | Not Reported | Address: | P.O. Box 940 |
| City: | Corona | State: | CA |
| Zip: | 91718 | Zip ext: | Not Reported |
| Pop serv: | 104000 | Connection: | 25321 |
| Area serve: | CORONA AND VICINITY | | |

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| | | | | |
|---|---|---|---|---|
| **1G**<br>**NNE**<br>**1/2 - 1 Mile**<br>**Lower** | Site ID: | 083301917T | **AQUIFLOW** | **50800** |
| | Groundwater Flow: | Not Reported | | |
| | Shallow Water Depth: | Not Reported | | |
| | Deep Water Depth: | Not Reported | | |
| | Average Water Depth: | 128 | | |
| | Date: | 03/31/1996 | | |

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| | | | | |
|---|---|---|---|---|
| **2G**<br>**West**<br>**1/2 - 1 Mile**<br>**Lower** | Site ID: | 083303020T | **AQUIFLOW** | **66391** |
| | Groundwater Flow: | Not Reported | | |
| | Shallow Water Depth: | 40’ | | |
| | Deep Water Depth: | 50’ | | |
| | Average Water Depth: | Not Reported | | |
| | Date: | 02/03/1998 | | |

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
# RADON

**AREA RADON INFORMATION**

State Database: CA Radon

Radon Test Results

| Zipcode | Num Tests | > 4 pCi/L |
|---|---|---|
| 92881 | 5 | 0 |

Federal EPA Radon Zone for RIVERSIDE County: 2

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

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Federal Area Radon Information for RIVERSIDE COUNTY, CA

Number of sites tested: 12

| Area | Average Activity | % <4 pCi/L | % 4-20 pCi/L | % >20 pCi/L |
|---|---|---|---|---|
| Living Area - 1st Floor | 0.117 pCi/L | 100% | 0% | 0% |
| Living Area - 2nd Floor | 0.450 pCi/L | 100% | 0% | 0% |
| Basement | 1.700 pCi/L | 100% | 0% | 0% |

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

## HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

## HYDROGEOLOGIC INFORMATION

AQUIFLOW$^{R}$ Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

## GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

## OTHER STATE DATABASE INFORMATION

Groundwater Ambient Monitoring & Assessment Program
State Water Resources Control Board
Telephone: 916-341-5577
The GAMA Program is Californias comprehensive groundwater quality monitoring program. GAMA collects data by testing the untreated, raw water in different types of wells for naturally-occurring and man-made chemicals. The GAMA data includes Domestic, Monitoring and Municipal well types from the following sources, Department of Water Resources, Department of Heath Services, EDF, Agricultural Lands, Lawrence Livermore National Laboratory, Department of Pesticide Regulation, United States Geological Survey, Groundwater Ambient Monitoring and Assessment Program and Local Groundwater Projects.

Water Well Database
Source: Department of Water Resources
Telephone: 916-651-9648

California Drinking Water Quality Database
Source: Department of Public Health
Telephone: 916-324-2319
The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

California Oil and Gas Well Locations
Source: Dept of Conservation, Geologic Energy Management Division
Telephone: 916-323-1779
Oil and Gas well locations in the state.

California Earthquake Fault Lines
Source: California Division of Mines and Geology
The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

RADON

State Database: CA Radon
Source: Department of Public Health
Telephone: 916-210-8558
Radon Database for California

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

**STREET AND ADDRESS INFORMATION**

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# APPENDIX J
# PRELIMINARY ENVIRONMENTAL SCREENING OF PROPOSED PROJECT AT EXISTING SCHOOL SITE CHECKLIST

# Preliminary Environmental Screening of Proposed Project at Existing School Site

Project: Centennial High School Aquatic Center .

| Selection Criteria | Yes | No | Comments |
|---|---|---|---|
| **Powerlines/Electromagnetic Fields** [CCR, Title 5, 14010(c)] | | | |
| Will the project create any new significant safety hazards or exacerbate any existing safety hazards to students from 50-133 kV powerlines/electromagnetic fields within 100 feet of the site? | | X | |
| Will the project create any new significant safety hazards or exacerbate any existing safety hazards to students from 220-230 kV powerlines/electromagnetic fields within 150 feet of the site? | | X | |
| Will the project create any new significant safety hazards or exacerbate any existing safety hazards to students from 500-550 kV powerlines/electromagnetic fields within 350 feet of the site? | | X | |
| **Railroads** [CCR, Title 5, 14010(d)] | | | |
| Will the project create any new significant safety hazards or exacerbate any existing safety hazards to students from railroads within 1,500 feet of the site? | | X | |
| **Traffic Noise** [CCR, Title 5, 14010(e)] | | | |
| Will the project create any new significant safety hazards or exacerbate any existing safety hazards to students from adjacent roads or freeways that will adversely affect the educational program? | | X | |
| **Faults** [CCR, Title 5, 14010(f)] | | | |
| Will the project create any new significant safety hazards or exacerbate any existing safety hazards to students from an active earthquake fault or fault trace which may be onsite? | | X | |
| **Flood or Inundation Area** [CCR, Title 5, 14010(g)] | | | |
| Will the project create any new significant safety hazards or exacerbate any existing safety hazards to students from flooding or dam inundation? | | X | |
| **Pipelines and Above Ground Tanks** [CCR, Title 5, 14010(h)] | | | |
| Will the project create any new significant safety hazards or exacerbate any existing safety hazards to students from nearby above-ground water or fuel storage tanks? | | X | |
| Will the project create any new significant safety hazards or exacerbate any existing safety hazards to students from above-ground or underground pipelines located within 1,500 feet of the site? | | X | |
| **Liquefaction and Landslides** [CCR, Title 5, 14010(i)] | | | |
| Will the project create any new significant safety hazards or exacerbate any existing safety hazards to students from liquefaction or landslides? | | X | |
| **Traffic and Pedestrian Safety** [CCR, Title 5, 14010(l)] | | | |
| Will the project create any new significant safety hazards or exacerbate any existing safety hazards to students from an adjacent major arterial street? | | X | |

# Preliminary Environmental Screening of Proposed Project at Existing School Site

Project: Centennial High School Aquatic Center .

| Selection Criteria | Yes | No | Comments |
|---|---|---|---|
| **Compatible Zoning** [CCR, Title 5, 14010(m)] | | | |
| Will the project create any new significant safety hazards or exacerbate any existing safety hazards to students from the zoning surrounding the site? | | X | |
| **Light, Wind, Air Pollution** [CCR, Title 5, 14010(q)] | | | |
| Will the project create any new significant safety hazards or exacerbate any existing safety hazards to students from light, wind or air pollution? | | X | |
| **Easements** [CCR, Title 5, 14010(r)] | | | |
| Will the project create any new significant safety hazards or exacerbate any existing safety hazards to students from easements on or adjacent to the site which may restrict access or building placement? | | X | |
| **Border Zone Property** [CCR, Title 5, 14010(t)] | | | |
| Will the project create any new significant safety hazards or exacerbate any existing safety hazards to students from a significant disposal of hazardous waste within 2,000 ft. of the site? | | X | |
| **Cellular Phone Towers** | | | |
| Will the project create any new significant safety hazards or exacerbate any existing safety hazards to students from a cellular phone tower on or adjacent to the site? | | X | |
| **Air Pollution** | | | |
| Will the project create any new significant safety hazards or exacerbate any existing safety hazards to students from a major transportation corridor (freeway, major rail line) within 500 feet? | | X | |
| Will the project create any new significant safety hazards or exacerbate any existing safety hazards to students from a major stationary source of emissions within 500 feet? | | X | |
| **Methane Zone** | | | |
| Will the project create any new significant safety hazards or exacerbate any existing safety hazards to students from a known methane zone or oil field? | | X | |
| **Oil Wells** | | | |
| Will the project create any new significant safety hazards or exacerbate any existing safety hazards to students from an onsite oil well? | | X | |
| **Airports** | | | |
| Will the project create any new significant safety hazards or exacerbate any existing safety hazards to students from an airport within two nautical miles of the site? | | X | |

# APPENDIX K
# ENVIRONMENTAL PROFESSIONAL RESUMES

EEC ENVIRONMENTAL

**Assessment/Remediation**
**Wastewater/Stormwater**
**Litigation Support**
**Regulatory Compliance**
**Technology/GIS**



# JEFF HENSEL, PG

*Senior Project Geologist*

Jeff Hensel is EEC's senior environmental director with extensive site investigation, remediation, and portfolio management experience. He has a proven track record of project and program management; technical project execution; project, liability, and contractor management; governmental agency interaction; stakeholder engagement and public participation; and staff mentorship. He has a solid industry reputation for finding innovative cost-effective solutions for clients thorough technical data analysis, strong organizational skills, and high quality work. Mr. Hensel is a highly respected professional with his peers, clients, and regulators and has a profound knowledge of the environmental industry.

His areas of technical expertise include Phase I & II ESAs; soil, soil vapor, and groundwater investigations; and site remediation. He also has a thorough understanding of monitored natural attenuation, insitu remedial technologies, and remedial systems. He has served as a program and project manager on very complex industrial, oil & gas, and airport projects requiring coordination with multiple agencies, stakeholder engagement, and public meeting presentations. Agency experience on projects includes the United States Environmental Protection Agency (USEPA), Federal Aviation Administration (FAA), State of California Department of Toxic Substances Control (DTSC), several California Regional Water Quality Control Boards (CRWQCBs), and a number of Certified Unified Program Agencies (CUPAs).

Jeff has a Master of Science in Environmental Studies and a Bachelor of Science in Geology from California State University, Fullerton, and Wayne State University, respectively. He is a Registered Professional Geologist (#5759) in California and a Registered Geologist in Kentucky (#444) and Wyoming (#PG-1400).

## RELEVANT EXPERIENCE

### Lead Project Manager, United Airlines Maintenance Facilities, Los Angeles International Airport | Los Angeles, CA

- Lead project manager for site assessments, remedial feasibility studies, groundwater monitoring, remedial system operation and maintenance (O&M), underground storage tank (UST) removals, human health risk assessments, at the United Airlines Maintenance Operations Center (MOC) and Aircraft Maintenance (ACMX) Facilities at the Los Angeles International Airport (LAX).
- Managed stakeholder engagement activities, which included project coordination with Los Angeles World Airports (LAWA), completion of a public fact sheet, and meetings with surrounding tenants.

### Eastern Regional Program Manager, British Petroleum Oil Spill | Florida

- Program manager for the siting, construction, and operation of several decontamination stations in the Eastern Region of the oil spill. The decontamination facilities consisted of equipment off-loading & staging area; vehicle, boat, and equipment decontamination area; wastewater treatment plant; and site command center.
- Led the citing and design team for each decontamination station.
- Met with local government officials, property owners, and local residents on behalf of BP regarding access agreements, construction and operation of the decontamination stations, and addressing community environmental and traffic concerns.
- Managed personnel and subcontractors and set up command structure and documentation procedures at each facility.
- Participated in a press conference in Panama City, Florida regarding the construction of the Port St. Joe, Florida decontamination station.

## RELEVANT EXPERIENCE (CONT'D)

### Lead Project Manager, Phillips 66 Company Distribution Terminal Assessment and Remediation | Los Angeles, CA

- Lead project manager managing the assessment, remediation system operation and maintenance (O&M), insitu remediation pilot studies, stakeholder engagement, and community outreach tasks.
- Assessment activities included drilling soil borings and installing vapor wells and groundwater monitoring wells on-site, on surrounding light industrial properties, and in city streets, to determine the nature and extent of free product and affected soil and groundwater.
- Remedial systems included two on-site SVE units, one off-site SVE system, and a product recovery system.
- Stakeholder engagement consisted of negotiating and coordinating access to 13 off-site properties and providing project updates to off-site property owners and tenants.

### Project Manager, Assessment of Former ExxonMobil Bulk Terminal | San Francisco, CA

- Performed assessment and insitu remediation activities at a former marine bulk terminal at Fisherman's Wharf. Assessment activities included drilling soil borings and installing groundwater wells at and around the former marine bulk terminal to determine the nature and extent of free product and affected soil and groundwater.
- Interim remediation activities consisted of product removal from monitoring wells and insitu remediation of soil and groundwater by injection of RegenOx™.
- Soil and groundwater closure was achieved and post-remedial monitoring is on-going.
- Completed fact sheets and hosted several public meetings with regulatory agencies, local business owners, environmental groups, and historical societies regarding the progress of the assessment and remediation activities.

### Project Manager, ExxonMobil Bulk Terminal Assessment and Remediation System Installation | Central Valley, CA

- Project manager for assessment, interim remediation, and remediation system installation activities at an active bulk terminal site in the Central Valley, California.
- Assessment activities included drilling soil borings and installing vapor and groundwater monitoring wells onsite, on surrounding light industrial & residential properties, and streets to determine the nature and extent of free product and affected soil and groundwater.
- Completed indoor air sampling of homes that surrounded the bulk terminal.
- Interim remediation activities consisted of SVE and bailouts of product from groundwater monitoring wells prior to system installation.
- Completed fact sheets and hosted several public meetings with regulatory agencies, local governmental officials, and residents regarding the progress of the assessment and remediation activities.

### Lead Project Manager, Soil and Soil Gas Assessment, Ted Levine Drum Company | South El Monte, CA

- Lead project manager for soil and soil gas investigations and groundwater monitoring at several parcels within the USEPA South El Monte Operable Unit (SEMOU).
- Soil and soil gas investigations consisted of site-wide geophysical surveys, soil sampling, installation and sampling of multi-depth soil vapor probes, laboratory analysis of soil and soil gas samples for total petroleum hydrocarbons (TPH), volatile organic compounds (VOCs), and emergent chemicals, and evaluating soil vapor results against the USEPA VISL Calculator.
- As lead project manager, Jeff was responsible for scope and budget development, project staffing, and LARWQCB interaction and negotiations.

### Program Manager, Environmental Engineering Support, Huntington Beach Fire Department | Huntington Beach, CA

- Complete reviews of technical documents including work plans, assessment reports, and soil import plans that will assist the city in its redevelopment planning and implementation.
- Review soil import proposals from developers at community redevelopment projects within the city limits.
- Review and recommend modifications to site assessment, oil well abandonment, and methane mitigation specifications.
- Prepare and review methane gas mitigation and post closure maintenance plans for new construction.
- Provide maintenance and inspection services on active methane gas collection systems.
- Conduct industrial and commercial stormwater inspections per the requirements of the Orange County municipal separate storm sewer system (MS4) stormwater permits for the city.

EEC ENVIRONMENTAL

**Assessment/Remediation**
**Wastewater/Stormwater**
**Litigation Support**
**Regulatory Compliance**
**Technology/GIS**



# Gabriela Jorquiera

*Staff Scientist*

Gabriela is an environmental field scientist with experience conducting and managing due diligence and information discovery through in-depth research of client and regulatory agency records, and reports her findings in various types of technical reports, which include Phase ) and Phase I site assessments, experience in health and safety monitoring, air quality monitoring, conducting regulatory operations and maintenance for both Soil Vapor Extraction (SVE) and Dual Phase Extraction (DPE) remediation systems, mobilization and relinquishing of samples in accordance to laboratory specifications, data management and quality assurance, and fieldwork documentation. She holds a Bachelor of Arts in Environmental Studies from California State University, Santa Cruz. Gabriela maintains the following certifications and trainings; OSHA 40-hour HAZWOPER Certification, Roadway Worker Protection Credential, and Union Pacific Railroad Roadway Worker Protection Certification.

## EXPERIENCE

### Staff Scientist, Douglas Emmett Realty | Los Angeles, CA

- Ensure National Pollutant Discharge Elimination System (NPDES) permit compliance and conduct regulatory operations and maintenance at 6 facilities.
- Collect monthly groundwater samples in compliance with the RWQCB WDR Order.
- Prepare quarterly self-monitoring reports to summarize compliance with conditions set forth in the NPDES Permit, WDR Order, and the Municipal Regional Storm Water Permit (MRP).

### Staff Scientist, Caddock Electronics | Riverside, CA

- Conduct regulatory operations and maintenance of SVE system and collect weekly measurements of organic vapor concentration using a photo ionization detector (PID).
- Collect weekly soil vapor samples.
- Prepare remedial progress reports summarizing compliance of system operations and analytical results.

### Staff Scientist, Various Commercial / Industrial / Educational / Recreational Facilities | Hawaii, Nevada, Florida, Arizona, Texas, Wyoming, and throughout California

- Conducted over 100 Phase I ESAs for private companies on various types of properties including large industrial facilities, transportation corridors, office buildings, gasoline filling/service stations, retail spaces, automotive dealers, a power plant, telecommunication facilities, dry-cleaners, educational facilities, gymnasiums, and state and national parks.
- Conducted research to locate potential environmental concerns on the subject property and surrounding properties.
- Analyzed historical aerial photographs, topographic maps, Sanborn maps, and environmental data reports.
- Conducted historical permit and document review at multiple city and regional agency offices to determine past land use.
- Authored Phase I ESA reports to be used by the client in property transactions.

# APPENDIX F2

# ASBESTOS AND LEAD BASED PAINT REPORTS

**Converse Consultants**
Geotechnical Engineering, Environmental & Groundwater Science, Inspection & Testing Services

January 30, 2023

Ms. Jacquelyn Roberts
Construction Director – Facilities Division
Corona-Norco Unified School District
2820 Clark Avenue
Norco, California 92860

**Subject:** **ASBESTOS & LEAD-BASED PAINT SURVEY REPORT**
Centennial High School Aquatic Center
1820 Rimpau Avenue
Corona, California 92881
Converse Project No. 22-16-161-01

Ms. Roberts:

Provided is our report of the *Asbestos & Lead-Based Paint (LBP) Survey* completed on December 21 and 22, 2022, for the referenced site. Our work, which was a non-destructive survey, was completed in general accordance with our proposal dated November 11, 2022.

The Scope of Services was completed by, or under the supervision, of the following Converse employees:

| Name | Asbestos Cert. No. | CDPH Cert. No. | Project Responsibility | Contact Number |
|---|---|---|---|---|
| Norman Eke (NSE) | CAC #96-2093 | -- | Contract Management | 626-930-1260 |
| Rodney Stansfield (RDS) | CAC #97-2309 | Inspector/Assessor #4397 | ASB Inspection & Sampling<br>LBP Survey<br>Report Generation | 714-333-8222 |
| Laura Tanaka (LAT) | CAC #11-4708 | Inspector/Assessor #7879 | Report QA/QC<br>Project Management | 626-807-3422 |
| Kaspar Wittlinger (KW) | CSST #22-7016 | -- | ASB Inspection & Sampling | 714-932-2154 |

All bulk asbestos samples and lead samples were submitted and analyzed by following the laboratory:

- LA Testing
  520 S. Mission Boulevard, South Pasadena, CA 91030
  323-254-9960; NVLAP #200232-0

Copies of applicable staff and laboratory certifications have been attached to this letter.

## *ASBESTOS*

Prior to sampling, Converse visually surveyed the project area for suspect asbestos-containing materials (ACMs) and homogeneous areas (areas that have uniform color, texture, and appearance). Suspect materials were divided into friable (crushable to dust) and non-friable materials, and placed in one of the following Environmental Protection Agency (EPA) categories:

- Surfacing Materials (sprayed or troweled-on materials)
- Thermal Systems Insulations (materials generally applied to various mechanical systems)
- Miscellaneous Materials (any materials which do not fit in the above categories)

The strategy for the collection of asbestos samples was in general accordance with the EPA guidance document *"Asbestos in Buildings: Simplified Sampling Scheme for Friable Surfacing Materials"*, EPA 560/5-85-030a, October 1985, 40 CFR 763 (AHERA); *National Exposure Standards for Hazardous Air Pollutants (NESHAP)*, 40 CFR Part 61; and South Coast Air Quality Management District, *Rule 1403, Asbestos Emissions From Demolition/Renovation Activities*, Amended October 5, 2007.

The bulk samples were analyzed by Polarized Light Microscopy (PLM) in accordance with EPA Test Method 600/R-93/116. A summary of the types of suspect materials sampled along with the analytical results is presented in the following table.

**Table 1 – Suspect Materials Sampled & Analytical Results**

| Sample Number | Suspect Material | % Asb Detected | Fri or NF Material | I or D Condition | Comments |
|---|---|---|---|---|---|
| 01-03 | Building slab (foundation) | None Detected | NF | I | Approx. 2,400 square feet. |
| 04-06 | CMU mortar (rectangular CMU) walls | None Detected | NF | I | Samples collected from the interior walls; approx. 4,500 square feet. Interior walls. |
| 07-09 | Equipment pads - Concrete | None Detected | NF | I | Approx. 150 square feet in the Mechanical Room. |
| 10 | Gasket - green | None Detected | NF | I | Sample collected from the Mechanical Room. Less than 1 square foot. |
| 11 | Gasket – black/red | None Detected | NF | I | Sample collected from the Mechanical Room. Less than 1 square foot. |
| 12 | Duct joint compound | None Detected | NF | I | Approx. 6 square feet in the Mechanical Room. Metal duct also in Boys restroom ceiling space |
| 13-17 | Drywall/joint compound, ceilings | None Detected | NF | I | Samples collected over steel; approx. 2,000 square feet throughout. |


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**Table 1 – Suspect Materials Sampled & Analytical Results**

| Sample Number | Suspect Material | % Asb Detected | Fri or NF Material | I or D Condition | Comments |
|---|---|---|---|---|---|
| 18-20 | Roof core | None Detected | NF | I | Samples collected over wood; approx. 2,400 square feet. |
| 21-23 | Roof parapet core | None Detected | NF | I | Approx. 600 square feet. Over CMU |
| 24-26 | Decorative brick mortar | None Detected | NF | I | Approx. 300 square feet on the building exterior. |
| 27-29 | Black roof mastic | None Detected | NF | I | Approx. 40 square feet. |
| 30-34 | Plaster walls | None Detected | NF | I | Samples collected over a barrier paper and wood; approx. 1,600 square feet throughout. |
| 35-37 | Vapor barrier paper | None Detected | NF | I | Samples collected over wood; approx. 1,600 square feet throughout. |
| 38 | Duct joint compound patch | None Detected | NF | I | Samples collected from the Boys Restroom; approx. 3 square feet. |
| 39-41 | Duct joint compound wall | None Detected | NF | I | Samples collected from the Boys Restroom; approx. 200 square feet. |
| 42 | Duct/joint tape patch | None Detected | NF | I | Patch on metal duct above the Boys Restroom; approx. 6 square feet. |
| A43-45 | Baseboard mastic | None Detected | NF | I | Approx. 250 square feet in Boys Locker Room, hallways and Offices. |
| 46-48 | Concrete pool deck | None Detected | NF | I | Approx. 12,600 square feet. |
| 49-51 | CMU mortar (square mortar) | None Detected | NF | I | Approx. 4,500 square feet on the building exterior. |
| 52-54 | Concrete walkway | None Detected | NF | I | Approx. 11,200 square feet on the building perimeter. |
| 55-57 | Asphalt | None Detected | NF | I | Approx. 40,000 square feet in the parking areas. |
| 58-60 | Asphalt with felt | None Detected | NF | I | Approx. 20,000 square feet in the parking areas. |
| 61-63 | Concrete swale | None Detected | NF | I | Approx. 1,500 square feet, north of the building. |
| 64-66 | Concrete Car Stops | None Detected | NF | I | Approx. 240 square feet in the parking areas. |

**Additional Comments:**
The building and compound were occupied at the time of the survey; therefore, this was a non-destructive survey. Suspect materials not sampled included: grout and mortar to ceramic tiles, and the interior lining of the pool.

***LEGEND***
**Fri: Friable Material**
**NF: Non-Friable Material**
**I: Intact Condition**
**D: Damaged Condition**

The laboratory may have identified additional layers or compounds within a sample under microscopic analysis that were not observed by the naked eye when the material was sampled in the field.


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**Table 1 – Suspect Materials Sampled & Analytical Results**

| Sample Number | Suspect Material | % Asb Detected | Fri or NF Material | I or D Condition | Comments |
|---|---|---|---|---|---|
| All materials were generally in good condition at the time of the survey. No obvious vandalism, fire, renovation, demolition or structural damage was observed. | | | | | |

The sampled suspect materials did not contain asbestos.

This was a non-destructive survey so the following suspect materials were not sampled:

- Grout and mortar to ceramic tiles
- Interior lining of the pool.

These materials will need to be considered ACMs until they are sampled and analyzed for asbestos content. In the event that other suspect ACMs are uncovered during renovation activities, those suspect materials should be inspected, sampled, and analyzed for asbestos content. If not sampled and analyzed, these new suspect materials will need to be assumed positive for asbestos.

The analytical report and chain of custody documentation are attached to this letter report. A sample location map is also attached to this letter report.

## *LEAD-BASED PAINTS (LBPs) OR LEAD-CONTAINING MATERIALS (LCMs)*

Prior to sampling, Converse visually surveyed the interior and exterior of the project area for painted or ceramic building components. Our sampling methodology generally followed the "Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing" published by the Department of Housing and Urban Development (HUD) in 1995. However, similarly painted building components were treated as homogenous throughout each building.

The LBP Survey was conducted using a Viken Pb200i X-ray fluorescence (XRF) device. The detection level for lead was set at the CDPH definition of lead-based paint, which is 1.0 milligrams per square centimeter (mg/cm$^2$). Suspect components surveyed included:

| Interior Components | Exterior Components |
|---|---|
| • Walls and ceilings | • Walls |
| • Sinks, Toilets, Bath Tubs and Showers | • Vents, pipes, downspouts, fascia |
| • Windows and associated components | • Doors and associated components |
| • Doors and associated components | • Stairs and associated components |
| • Ceramic tile counters, walls and floors | • Pool tiles (deck and walls) |
| • Cabinets and Benches | • Wall tiles and drinking fountains |
| • Ladders and Metal Pipes | • Windows and associated components |


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| Interior Components | Exterior Components |
|---|---|
| • Metal Tank | |

Provided in Table 2 is a summary of the LBPs and LCMs detected during this survey. All materials were observed to be in intact condition at the time of the survey.

**Table 2 – Summary of LBPs and LCMs**

| Building Component | Paint Color | Lead Conc. ($mg/cm^2$) | Comments |
|---|---|---|---|
| Metal vent pipe | White | 23.6 | There are three (3) metal vent pipes located on the roof of the Aquatic Center building. All 3 pipes are considered LBP. Intact condition. |
| Metal tank | Gray | 1.6 | Located in the south-center chemical storage room. Intact condition. |

The XRF Summary Table and field notes are attached to this letter report. This table provides a complete list of the components surveyed.

At the time of the survey, the LPBs were in good condition (intact). If at the time of the renovation activities, the LBPs are in damaged conditions (peeling, flaking, delaminating), the LBPs will need to stabilized if impacted by the renovation activities. The stabilization will need to be completed by a CDPH licensed lead abatement contractor using workers that have undergone the necessary lead training

Although other painted and/or ceramic materials did not meet the criteria for LBP or LCM, concentrations of lead were detected in these materials. Title 8 CCR 1532.1 (Cal/OSHA Lead regulation) may require workers that perform work that disturbs the LBPs or LCMs such as manual demolition, manual scraping, sanding of painted surfaces, etc. to undergo an exposure assessment including, but not limited to, air monitoring of the breathing zone. Other requirements including training and medical surveillance may be necessary per the lead regulation. Employers are responsible for worker exposure in relation to lead.

In the event that suspect LBPs are observed during the pending activities that were not previously sampled, these materials should be assumed to contain lead in concentrations exceeding 1.0 $mg/cm^2$, until such time that they can be sampled and evaluated for lead content.

## *CLOSURE*

This report is for the sole benefit and exclusive use of the Corona Norco Unified School District (herein referred to as Client) in accordance with the terms and conditions of our contract under which these services have been provided. Its preparation has been in accordance with generally accepted environmental practices. No other warranty, either


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express or implied, is made. The Scope of Services associated with the report was designed solely in accordance with the objectives, schedule, budget, and risk-management preferences of Client.

This letter report should not be regarded as a guarantee that no further ACMs or LBPs, beyond that which could be detected within the scope of this survey, are present at the property. Converse makes no warranties or guarantees as to the accuracy or completeness of information provided or compiled by others. It is not possible to absolutely confirm that no ACMs or LBPs exist at the property. If none are identified as part of a limited scope of work, such a conclusion should not be construed as a guaranteed absence of such materials, but merely the results of the evaluation of the property at the time of the survey. Also, events may occur after the survey, which may result in contamination of the property. Additional information, which was not found or available to Converse at the time of report preparation, may result in a modification of the conclusions and recommendations presented.

Any reliance on this report by Third Parties shall be at the Third Party's sole risk.

We appreciate the opportunity to be of service to you. If you should have any questions or comments regarding the results, please contact Laura Tanaka at (626) 930-1261 or Norman Eke at (626) at 930-1260.

Sincerely,

**CONVERSE CONSULTANTS**

Rodney Stansfield
CDPH LRC #4397 & CAC 97-2309
Sr. Staff Environmental Scientist

Laura Tanaka
CDPH LRC #474 & CAC #11-4708
Principal Environmental Scientist

Attached: Certifications
Asbestos - Analytical Report & Sample Location Maps
LBPs/LCMs – XRF Summary Table & Field Notes.


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# Certifications

## Converse Staff & Laboratory

Converse Project No. 22-16-161-01
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**STATE OF CALIFORNIA** Gavin Newsom, Governor

DEPARTMENT OF INDUSTRIAL RELATIONS
**Division of Occupational Safety and Health-Asbestos Certification**
1750 Howe Avenue, Suite 460
Sacramento, CA 95825
(916) 574-2993 Office http://www.dir.ca.gov/dosh/asbestos.html actu@dir.ca.gov

612162093C 138

**Converse Consultants**
**Norman S Eke**
**717 S. Myrtle Drive**
**Monrovia CA 91016**

**December 27, 2022**

Dear Certified Asbestos Consultant or Technician:

Enclosed is your certification card. **To maintain your certification, you must abide by the rules printed on the back of the certification card.**

Your certification is valid for a period of one year. If you wish to renew your certification, you must apply for renewal at least 60 days before the expiration date shown on your card. [8 CCR 341.15(h)(1)].

Please hold and do not send copies of your required AHERA refresher renewal certificates to our office until you apply for renewal of your certification.

Certificates must be kept current if you are actively working as a CAC or CSST. The grace period is only for those who are not actively working as an asbestos consultant or site surveillance technician.

Please contact our office at the above address or email w any changes in your contact/mailing information within 15 days of the change.

Sincerely,

*Eric Berg*

Eric Berg
Deputy Chief of Health

Attachment: Certification Card

cc: File




Renewal – Card Attached

California Department of PublicHealth

**STATE OF CALIFORNIA**
**DEPARTMENT OF PUBLIC HEALTH**

# LEAD-RELATED CONSTRUCTION CERTIFICATE

| INDIVIDUAL: | CERTIFICATE TYPE: | NUMBER: | EXPIRATION DATE: |
|---|---|---|---|
|  | Lead Project Monitor | LRC-00004396 | 12/17/2023 |
| | Lead Inspector/Assessor | LRC-00004397 | 12/17/2023 |

**Rodney Stansfield**

Disclaimer: This document alone should not be relied upon to confirm certification status. Compare the individual's photo and name to another valid form of government issued photo identification. Verify the individual's certification status by searching for Lead-Related Construction Professionals at www.cdph.ca.gov/programs/clppb or calling (800) 597-LEAD

State of California
Division of Occupational Safety and Health
**Certified Asbestos Consultant**



**Rodney Dean Stansfield**
Name

Certification No. **97-2309**

Expires on **12/08/23**

This certification was issued by the Division of Occupational Safety and Health as authorized by Sections 7180 et seq. of the Business and Professions Code.

California Department of PublicHealth

**STATE OF CALIFORNIA**
**DEPARTMENT OF PUBLIC HEALTH**

# LEAD-RELATED CONSTRUCTION CERTIFICATE

| INDIVIDUAL: | CERTIFICATE TYPE: | NUMBER: | EXPIRATION DATE: |
|---|---|---|---|
|  | Lead Inspector/Assessor | LRC-00007879 | 4/27/2023 |
| | Lead Project Designer | LRC-00007880 | 4/27/2023 |
| | Lead Project Monitor | LRC-00007878 | 4/27/2023 |

**Laura Tanaka**

Disclaimer: This document alone should not be relied upon to confirm certification status. Compare the individual's photo and name to another valid form of government issued photo identification. Verify the individual's certification status by searching for Lead-Related Construction Professionals at www.cdph.ca.gov/programs/clppb or calling (800) 597-LEAD

State of California
Division of Occupational Safety and Health
**Certified Asbestos Consultant**



**Laura A Tanaka**
Name

Certification No. **11-4708**

Expires on **01/19/24**

This certification was issued by the Division of Occupational Safety and Health as authorized by Sections 7180 et seq. of the Business and Professions Code.

State of California
Division of Occupational Safety and Health

**Certified Site Surveillance Technician**

**Kaspar Wittlinger**
Name



Certification No. **22-7016**

Expires on **03/18/23**

This certification was issued by the Division of Occupational Safety and Health as authorized by Sections 7180 et seq. of the Business and Professions Code.

**United States Department of Commerce**
**National Institute of Standards and Technology**

# Certificate of Accreditation to ISO/IEC 17025:2017

**NVLAP LAB CODE: 200232-0**

## LA Testing

South Pasadena, CA

*is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:*

## Asbestos Fiber Analysis

*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).*

2022-07-01 through 2023-06-30

*Effective Dates*

*For the National Voluntary Laboratory Accreditation Program*

# National Voluntary Laboratory Accreditation Program

## SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

**LA Testing**
520 Mission Street
South Pasadena, CA 91030
Mr. Jerry Drapala Ph.D.
Phone: (323) 254-9960 Fax: (323) 254-9982
Email: jdrapala@latesting.com
http://www.latesting.com

## ASBESTOS FIBER ANALYSIS — NVLAP LAB CODE 200232-0

### Bulk Asbestos Analysis

| *Code* | *Description* |
|---|---|
| 18/A01 | EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples |
| 18/A03 | EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials |

### Airborne Asbestos Analysis

| *Code* | *Description* |
|---|---|
| 18/A02 | U.S. EPA's "Interim Transmission Electron Microscopy Analytical Methods-Mandatory and Nonmandatory-and Mandatory Section to Determine Completion of Response Actions" as found in 40 CFR, Part 763, Subpart E, Appendix A. |

*For the National Voluntary Laboratory Accreditation Program*

# Asbestos

## Analytical Report & Chain of Custody
## Sample Location Maps


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| | |
|---|---|
| **LA Testing Order:** | 322225414 |
| **Customer ID:** | 32CONV56 |
| **Customer PO:** | 221616101 |
| **Project ID:** | |

| | | | |
|---|---|---|---|
| **Attention:** | Laura Tanaka | **Phone:** | (626) 930-1260 |
| | Converse Consultants | **Fax:** | (626) 930-1212 |
| | 717 S Myrtle Avenue | **Received Date:** | 12/22/2022 1:10 PM |
| | Monrovia, CA 91016 | **Analysis Date:** | 12/28/2022 - 12/29/2022 |
| | | **Collected Date:** | |
| **Project:** | 22-16-161-01 | | |

## *Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy*

| | | | Non-Asbestos | | Asbestos |
|---|---|---|---|---|---|
| **Sample** | **Description** | **Appearance** | **% Fibrous** | **% Non-Fibrous** | **% Type** |
| 1<br>*322225414-0001* | Mech Rm - W by Door | Gray<br>Non-Fibrous<br>Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 2<br>*322225414-0002* | Mech Rm - NW Insile Pump Pit | Gray<br>Non-Fibrous<br>Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 3<br>*322225414-0003* | Boys Locker Rm - Center | Gray<br>Non-Fibrous<br>Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 4<br>*322225414-0004* | Mech Rm - SW by Door | Gray<br>Non-Fibrous<br>Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 5<br>*322225414-0005* | Hypochlorite Tech Rm - SEC | Gray<br>Non-Fibrous<br>Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 6<br>*322225414-0006* | Woffier, W by Door | Gray<br>Non-Fibrous<br>Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 7<br>*322225414-0007* | Mech Rm - NE | Gray<br>Non-Fibrous<br>Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 8<br>*322225414-0008* | Mech Rm - E | Gray<br>Non-Fibrous<br>Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 9<br>*322225414-0009* | Mech Rm - S | Gray<br>Non-Fibrous<br>Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 10<br>*322225414-0010* | Mech Rm - NW | Green<br>Fibrous<br>Homogeneous | 20% Cellulose | 80% Non-fibrous (Other) | None Detected |
| 11<br>*322225414-0011* | Mech Rm - NW | Brown/Black<br>Non-Fibrous<br>Homogeneous | 40% Cellulose | 60% Non-fibrous (Other) | None Detected |
| 12<br>*322225414-0012* | Mech Rm - NE Corner | White/Gold<br>Non-Fibrous<br>Homogeneous | | 10% Mica<br>90% Non-fibrous (Other) | None Detected |
| 13-Drywall<br>*322225414-0013* | Hypochlorite Tech Rm - SWC Ceiling | Brown/White<br>Fibrous<br>Heterogeneous | 20% Cellulose | 80% Non-fibrous (Other) | None Detected |
| 13-Joint Compound<br>*322225414-0013A* | Hypochlorite Tech Rm - SWC Ceiling | White<br>Non-Fibrous<br>Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 14-Drywall<br>*322225414-0014* | Boys RR - NW Side Seiling | Brown/White<br>Fibrous<br>Heterogeneous | 20% Cellulose | 80% Non-fibrous (Other) | None Detected |
| 14-Joint Compound<br>*322225414-0014A* | Boys RR - NW Side Seiling | White<br>Non-Fibrous<br>Homogeneous | | 100% Non-fibrous (Other) | None Detected |

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|---|---|
| **LA Testing Order:** | 322225414 |
| **Customer ID:** | 32CONV56 |
| **Customer PO:** | 221616101 |
| **Project ID:** | |

## *Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy*

| | | | Non-Asbestos | | Asbestos |
|---|---|---|---|---|---|
| **Sample** | **Description** | **Appearance** | **% Fibrous** | **% Non-Fibrous** | **% Type** |
| 15-Drywall<br>*322225414-0015* | Boys RR - SW Side Ceiling | Brown/White<br>Fibrous<br>Heterogeneous | 20% Cellulose | 80% Non-fibrous (Other) | None Detected |
| 15-Joint Compound<br>*322225414-0015A* | Boys RR - SW Side Ceiling | White<br>Non-Fibrous<br>Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 16-Drywall<br>*322225414-0016* | Girls Locker Rm - S Side Ceiling | Brown/White<br>Fibrous<br>Heterogeneous | 20% Cellulose | 80% Non-fibrous (Other) | None Detected |
| 16-Joint Compound<br>*322225414-0016A* | Girls Locker Rm - S Side Ceiling | White<br>Non-Fibrous<br>Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 17-Drywall<br>*322225414-0017* | Girls RR - W Side Ceiling | Brown/White<br>Fibrous<br>Heterogeneous | 20% Cellulose | 80% Non-fibrous (Other) | None Detected |
| 17-Joint Compound<br>*322225414-0017A* | Girls RR - W Side Ceiling | White<br>Non-Fibrous<br>Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 18-Coating<br>*322225414-0018* | N Side | White<br>Non-Fibrous<br>Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 18-Roofing 1<br>*322225414-0018A* | N Side | Black<br>Fibrous<br>Homogeneous | 10% Glass | 90% Non-fibrous (Other) | None Detected |
| 18-Roofing 2<br>*322225414-0018B* | N Side | Gray/Black<br>Fibrous<br>Heterogeneous | 3% Synthetic<br>10% Glass | 87% Non-fibrous (Other) | None Detected |
| 18-Felt<br>*322225414-0018C* | N Side | Black<br>Fibrous<br>Homogeneous | 20% Glass | 80% Non-fibrous (Other) | None Detected |
| 19-Coating<br>*322225414-0019* | E Center | White<br>Non-Fibrous<br>Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 19-Roofing 2<br>*322225414-0019A* | E Center | Gray/Black<br>Non-Fibrous<br>Homogeneous | 5% Synthetic<br>10% Glass | 85% Non-fibrous (Other) | None Detected |
| 19-Felt<br>*322225414-0019B* | E Center | Black<br>Fibrous<br>Homogeneous | 25% Glass | 75% Non-fibrous (Other) | None Detected |
| 20-Coating<br>*322225414-0020* | SE | Gray/White<br>Non-Fibrous<br>Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 20-Roofing 1<br>*322225414-0020A* | SE | Gray/Black<br>Fibrous<br>Heterogeneous | 5% Synthetic<br>10% Glass | 85% Non-fibrous (Other) | None Detected |
| 20-Roofing 2<br>*322225414-0020B* | SE | Gray/Black<br>Fibrous<br>Heterogeneous | 12% Glass | 88% Non-fibrous (Other) | None Detected |
| 20-Felt<br>*322225414-0020C* | SE | Black<br>Fibrous<br>Homogeneous | 25% Glass | 75% Non-fibrous (Other) | None Detected |
| 20-Tar<br>*322225414-0020D* | SE | Black<br>Non-Fibrous<br>Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 21-Coating<br>*322225414-0021* | N Center | Gray/White<br>Non-Fibrous<br>Homogeneous | | 100% Non-fibrous (Other) | None Detected |

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|---|---|
| **LA Testing Order:** | 322225414 |
| **Customer ID:** | 32CONV56 |
| **Customer PO:** | 221616101 |
| **Project ID:** | |

## *Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy*

| | | | Non-Asbestos | | Asbestos |
|---|---|---|---|---|---|
| **Sample** | **Description** | **Appearance** | **% Fibrous** | **% Non-Fibrous** | **% Type** |
| 21-Roofing<br>*322225414-0021A* | N Center | Gray/Black<br>Fibrous<br>Heterogeneous | 5% Synthetic<br>10% Glass | 85% Non-fibrous (Other) | None Detected |
| 21-Tar<br>*322225414-0021B* | N Center | Black<br>Non-Fibrous<br>Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 22-Coating<br>*322225414-0022* | E Center | White<br>Non-Fibrous<br>Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 22-Roofing<br>*322225414-0022A* | E Center | Gray/Black<br>Fibrous<br>Heterogeneous | 5% Synthetic<br>10% Glass | 85% Non-fibrous (Other) | None Detected |
| 22-Tar<br>*322225414-0022B* | E Center | Black<br>Non-Fibrous<br>Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 23-Coating 1<br>*322225414-0023* | SE | Gray/White<br>Non-Fibrous<br>Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 23-Roofing 1<br>*322225414-0023A* | SE | Black<br>Non-Fibrous<br>Heterogeneous | 5% Synthetic<br>10% Glass | 85% Non-fibrous (Other) | None Detected |
| 23-Coating 2<br>*322225414-0023B* | SE | Gray/White<br>Non-Fibrous<br>Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 23-Roofing 2<br>*322225414-0023C* | SE | Black<br>Non-Fibrous<br>Heterogeneous | 5% Synthetic<br>10% Glass | 85% Non-fibrous (Other) | None Detected |
| 23-Tar<br>*322225414-0023D* | SE | Black<br>Non-Fibrous<br>Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 24<br>*322225414-0024* | N Side | Gray<br>Non-Fibrous<br>Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 25<br>*322225414-0025* | E Side | Gray<br>Non-Fibrous<br>Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 26<br>*322225414-0026* | SE | Gray<br>Non-Fibrous<br>Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 27-Coating<br>*322225414-0027* | NW Side on Pipe Peretration | White<br>Non-Fibrous<br>Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 27-Mastic<br>*322225414-0027A* | NW Side on Pipe Peretration | Black<br>Non-Fibrous<br>Homogeneous | 5% Cellulose<br>10% Glass | 85% Non-fibrous (Other) | None Detected |
| 28-Coating<br>*322225414-0028* | N Center on Metal Vent | White<br>Non-Fibrous<br>Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 28-Mastic<br>*322225414-0028A* | N Center on Metal Vent | Black<br>Non-Fibrous<br>Homogeneous | 10% Cellulose | 90% Non-fibrous (Other) | None Detected |
| 29-Mastic<br>*322225414-0029*<br>*No coating present for analysis* | S on Water Leafer Vent | Black<br>Non-Fibrous<br>Homogeneous | 10% Cellulose | 90% Non-fibrous (Other) | None Detected |

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## *Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy*

| | | | Non-Asbestos | | Asbestos |
|---|---|---|---|---|---|
| **Sample** | **Description** | **Appearance** | **% Fibrous** | **% Non-Fibrous** | **% Type** |
| 30<br>*322225414-0030* | Boys RR W Wall | Gray<br>Non-Fibrous<br>Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 31<br>*322225414-0031* | Boys RR SE Side Wall | Gray<br>Non-Fibrous<br>Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 32<br>*322225414-0032* | Boys RR SW Wall | Gray<br>Non-Fibrous<br>Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 33<br>*322225414-0033* | Girls RR NW Wal | Gray<br>Non-Fibrous<br>Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 34<br>*322225414-0034* | Girls RR SW Wall | Gray<br>Non-Fibrous<br>Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 35<br>*322225414-0035* | Boys RR W Wall | Black<br>Fibrous<br>Homogeneous | 70% Cellulose | 30% Non-fibrous (Other) | None Detected |
| 36<br>*322225414-0036* | Boys RR W Wall | Black<br>Fibrous<br>Homogeneous | 70% Cellulose | 30% Non-fibrous (Other) | None Detected |
| 37<br>*322225414-0037* | Boys RR SE Wall | Black<br>Fibrous<br>Homogeneous | 70% Cellulose | 30% Non-fibrous (Other) | None Detected |
| 38<br>*322225414-0038* | Boys RR Entrance on Duct above Drywall Ceiling | Gray<br>Non-Fibrous<br>Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 39-Drywall<br>*322225414-0039* | Janitor Closet br Boys RR - SEC | Brown<br>Fibrous<br>Heterogeneous | 20% Cellulose<br>2% Glass | 78% Non-fibrous (Other) | None Detected |
| 39-Joint Compound<br>*322225414-0039A* | Janitor Closet br Boys RR - SEC | White<br>Non-Fibrous<br>Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 40-Drywall<br>*322225414-0040* | Janitor Closet br Boys RR - NEC | Brown<br>Fibrous<br>Heterogeneous | 20% Cellulose<br>2% Glass | 78% Non-fibrous (Other) | None Detected |
| 40-Joint Compound<br>*322225414-0040A* | Janitor Closet br Boys RR - NEC | White<br>Non-Fibrous<br>Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 41-Drywall<br>*322225414-0041* | Janitor Closet br Boys RR - NEC | Beige<br>Non-Fibrous<br>Homogeneous | 5% Glass | 95% Non-fibrous (Other) | None Detected |
| 41-Joint Compound<br>*322225414-0041A* | Janitor Closet br Boys RR - NEC | White<br>Non-Fibrous<br>Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 42<br>*322225414-0042* | Boys RR Ceiling Space N | White<br>Fibrous<br>Homogeneous | 60% Cellulose | 40% Non-fibrous (Other) | None Detected |
| 43-Baseboard<br>*322225414-0043* | Boys Locker RM - W | Gray<br>Non-Fibrous<br>Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 43-Mastic<br>*322225414-0043A* | Boys Locker RM - W | Yellow<br>Non-Fibrous<br>Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 44-Baseboard<br>*322225414-0044* | Boys Locker RM - NW | Gray<br>Non-Fibrous<br>Homogeneous | | 100% Non-fibrous (Other) | None Detected |

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## *Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy*

| | | | Non-Asbestos | | Asbestos |
|---|---|---|---|---|---|
| **Sample** | **Description** | **Appearance** | **% Fibrous** | **% Non-Fibrous** | **% Type** |
| 44-Mastic<br>*322225414-0044A* | Boys Locker RM - NW | Yellow<br>Non-Fibrous<br>Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 45-Baseboard<br>*322225414-0045* | Boys Locker RM - NW | Black<br>Non-Fibrous<br>Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 45-Mastic<br>*322225414-0045A* | Boys Locker RM - NW | Yellow<br>Non-Fibrous<br>Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 46<br>*322225414-0046* | Pool Deck - N Center | Gray<br>Non-Fibrous<br>Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 47<br>*322225414-0047* | Pool Deck - W Side by Water Edge | Gray<br>Non-Fibrous<br>Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 48<br>*322225414-0048* | Pool Deck - SE Near Drain | Gray<br>Non-Fibrous<br>Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 49-CMU<br>*322225414-0049* | Building Exterior - SEC | Gray<br>Non-Fibrous<br>Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 49-Mortar<br>*322225414-0049A* | Building Exterior - SEC | Gray<br>Non-Fibrous<br>Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 50-CMU<br>*322225414-0050* | Building Exterior - NEC | Gray<br>Non-Fibrous<br>Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 50-Mortar<br>*322225414-0050A* | Building Exterior - NEC | Gray<br>Non-Fibrous<br>Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 51-CMU<br>*322225414-0051* | Building Exterior - E by Main Entrance | Gray<br>Non-Fibrous<br>Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 51-Mortar<br>*322225414-0051A* | Building Exterior - E by Main Entrance | Gray<br>Non-Fibrous<br>Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 52<br>*322225414-0052* | E Stair Landing by Main Entrance | Gray<br>Non-Fibrous<br>Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 53<br>*322225414-0053* | S Cemter Near Light Post | Gray/Red<br>Non-Fibrous<br>Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 54<br>*322225414-0054* | SW Corner | Gray<br>Non-Fibrous<br>Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 55<br>*322225414-0055* | E Center Parking by Main Entrance | Black<br>Non-Fibrous<br>Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 56<br>*322225414-0056* | S Near Pool Gate Bldg | Black<br>Non-Fibrous<br>Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 57<br>*322225414-0057* | W Center Parking by Fence | Black<br>Non-Fibrous<br>Homogeneous | 2% Cellulose | 98% Non-fibrous (Other) | None Detected |
| 58-Asphalt<br>*322225414-0058* | N Side By Student Drop-off E | Black<br>Non-Fibrous<br>Homogeneous | | 100% Non-fibrous (Other) | None Detected |

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## *Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy*

| | | | Non-Asbestos | | Asbestos |
|---|---|---|---|---|---|
| **Sample** | **Description** | **Appearance** | **% Fibrous** | **% Non-Fibrous** | **% Type** |
| 58-Felt<br>*322225414-0058A* | N Side By Student Drop-off E | Black<br>Fibrous<br>Homogeneous | 98% Synthetic | 2% Non-fibrous (Other) | None Detected |
| 59-Asphalt<br>*322225414-0059* | N Side By Student Drop-off Center | Black<br>Non-Fibrous<br>Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 59-Felt<br>*322225414-0059A* | N Side By Student Drop-off Center | Black<br>Fibrous<br>Homogeneous | 98% Synthetic | 2% Non-fibrous (Other) | None Detected |
| 60-Asphalt<br>*322225414-0060* | N Side By Student Drop-off W | Black<br>Non-Fibrous<br>Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 60-Felt<br>*322225414-0060A* | N Side By Student Drop-off W | Black<br>Fibrous<br>Homogeneous | 98% Synthetic | 2% Non-fibrous (Other) | None Detected |
| 61<br>*322225414-0061* | N Side by Student Drop-off | Gray<br>Non-Fibrous<br>Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 62<br>*322225414-0062* | N Center Near School Perimeter | Gray<br>Non-Fibrous<br>Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 63<br>*322225414-0063* | W Side Parking Area N | Gray<br>Non-Fibrous<br>Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 64<br>*322225414-0064* | W Side By Fence S | Gray<br>Non-Fibrous<br>Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 65<br>*322225414-0065* | W Side By Fence N | Gray<br>Non-Fibrous<br>Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 66<br>*322225414-0066* | E Side by Main Entrance S | Gray<br>Non-Fibrous<br>Homogeneous | | 100% Non-fibrous (Other) | None Detected |

Analyst(s)

*Rosa Mendoza (36)*

*Rafael Palacios (66)*

Jerry Drapala Ph.D, Laboratory Manager
or Other Approved Signatory


LA Testing maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by LA Testing. LA Testing bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 “Interim Method”) but augmented with procedures outlined in the 1993 (”final”) version of the method. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore LA Testing recommends gravimetric reduction prior to analysis. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.

Samples analyzed by LA Testing South Pasadena, CA NVLAP Lab Code 200232-0, CA ELAP 2283


Initial report from: 12/29/2022 15:15:17

OrderID: 322225414

# Asbestos Chain of Custody

**LA Testing Order Number** *(Lab Use Only)*:

#322225414

LA TESTING
520 MISSION STREET
S. PASADENA, CA 91030
PHONE: (323) 254-9960
FAX: (323) 254-9982

| | |
|---|---|
| **Company : Converse Consultants** | **LA Testing-Bill to:** ☒ Same ☐ Different<br>If Bill to is Different note instructions in Comments**<br>*Third Party Billing requires written authorization from third party* |
| **Street: 717 S. Myrtle Avenue** | |
| **City: Monrovia** / **State/Province: CA** | **Zip/Postal Code: 91016** / **Country: USA** |
| **Report To (Name): Laura Tanaka** | **Fax #:** |
| **Telephone #: (626) 807-3422** | **Email Address: ltanaka@converseconsultants.com** |
| **Project Name/Number: 22-16-161-01** | |
| **Please Provide Results:** ☐ Fax ☒ Email / **Purchase Order: 221616101** | **U.S. State Samples Taken: CA** |

**Turnaround Time (TAT) Options* – Please Check**

☐ 3 Hour ☐ 6 Hour ☐ 24 Hour ☐ 48 Hour ☐ 72 Hour ☐ 96 Hour ☒ 1 Week ☐ 2 Week

**For TEM Air 3 hours through 6 hours, please call ahead to schedule. *There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with LA Testing's Terms and Conditions located in the Analytical Price Guide.*

**PCM - Air**
- ☐ NIOSH 7400
- ☐ w/ OSHA 8hr. TWA

**PLM - Bulk (reporting limit)**
- ☒ PLM EPA 600/R-93/116 (<1%)
- ☐ PLM EPA NOB (<1%)

Point Count
- ☐ 400 (<0.25%) ☐ 1000 (<0.1%)

Point Count w/Gravimetric
- ☐ 400 (<0.25%) ☐ 1000 (<0.1%)
- ☐ NYS 198.1 (friable in NY)
- ☐ NYS 198.6 NOB (non-friable-NY)
- ☐ NIOSH 9002 (<1%)

**TEM – Air** ☐ **4-4.5hr TAT** (AHERA only)
- ☐ AHERA 40 CFR, Part 763
- ☐ NIOSH 7402
- ☐ EPA Level II
- ☐ ISO 10312

**TEM - Bulk**
- ☐ TEM EPA NOB
- ☐ NYS NOB 198.4 (non-friable-NY)
- ☐ Chatfield SOP
- ☐ TEM Mass Analysis-EPA 600 sec. 2.5

**TEM – Water:** EPA 100.2
- Fibers >10µm ☐ Waste ☐ Drinking
- All Fiber Sizes ☐ Waste ☐ Drinking

**TEM- Dust**
- ☐ Microvac - ASTM D 5755
- ☐ Wipe - ASTM D6480
- ☐ Carpet Sonication (EPA 600/J-93/167)

**Soil/Rock/Vermiculite**
- ☐ PLM CARB 435 - A (0.25% sensitivity)
- ☐ PLM CARB 435 - B (0.1% sensitivity)
- ☐ TEM CARB 435 - B (0.1% sensitivity)
- ☐ TEM CARB 435 - C (0.01% sensitivity)
- ☐ EPA Protocol (Semi-Quantitative)
- ☐ EPA Protocol (Quantitative)

**Other:**
- ☐

☐ **Check For Positive Stop – Clearly Identify Homogenous Group**

**Samplers Name: Rodney Stansfield** / **Samplers Signature:** Rodney Stansfield

| Sample # | Sample Description | Volume/Area (Air) HA # (Bulk) | Date/Time Sampled |
|---|---|---|---|
| | SEE ATTACHED | SEE ATTACHED | |
| | | | |
| | | | |
| | | | |
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| | | | |

**Client Sample # (s):** 01 - 66 **Total # of Samples:** 66

**Relinquished (Client):** Annette Kasper Withings **Date:** 12/22/22 **Time:** 1310

**Received (Lab):** Annette McKisnick **Date:** 12/22/2022 **Time:** 1310 (PT)

**Comments/Special Instructions:**

Page 1 of 25 pages

OrderID: 322225414

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☒ Rancho Office
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# #322225414 BULK SAMPLE LOG

Project Name: CNUSD / Centennial HS Aquatic Ctr. Collected By: KW Kaspar Wittlinger

Project No.: 22-16-161-01 Date: 12/21/22

**HOMOGENEOUS MATERIAL:** Building Slab (Foundation)

| Sample Number | Sample Location/Description | Approx. Area (Sq Ft or LF) | Friable or Non-friable | Intact or Damaged |
|---|---|---|---|---|
| 01 | Mech Rm - W by door | ~2,400 | NF | I |
| 02 | ↓ - NW inside pump pit | ↓ | ↓ | ↓ |
| 03 | Boy's Locker Rm - Ctr | ↓ | ↓ | ↓ |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
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| | | | | |

**Additional Comments:**

OrderID: 322225414

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# #322225414 BULK SAMPLE LOG

Project Name: CNUSD / Centennial HS Ag-Cte. Collected By: KW

Project No.: 22-16-161-01 Date: 12/21/22

**HOMOGENEOUS MATERIAL:** CMU mortar (rectangular CMU) walls

| Sample Number | Sample Location/Description | Approx. Area (Sq Ft or LF) | Friable or Non-friable | Intact or Damaged |
|---|---|---|---|---|
| 04 | Med Rm - SW by door | ~4,500 | NF | I |
| 05 | Hypochlorite Tank Rm - SEC | ↓ | ↓ | ↓ |
| 06 | W office, W by door | ↓ | ↓ | ↓ |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

**Additional Comments:** Interior walls

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# #322225414 BULK SAMPLE LOG

Project Name: CNUSD / Centennial HS Ag. Chr. Collected By: KW

Project No.: 22-16-161-01 Date: 12/21/22

**HOMOGENEOUS MATERIAL:** Equipment Pads - concrete

| Sample Number | Sample Location/Description | Approx. Area (Sq Ft or LF) | Friable or Non-friable | Intact or Damaged |
|---|---|---|---|---|
| 07 | Mech Rm — NE | ~150 | NF | I |
| 08 | " — E | " | " | " |
| 09 | " — S | " | " | " |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

**Additional Comments:**

OrderID: 322225414

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#322225414

# BULK SAMPLE LOG

Project Name: CVUSD/Centennial HS Aq. Ctr. Collected By: KW

Project No.: 22-16-161-01 Date: 12/21/22

**HOMOGENEOUS MATERIAL:** Gasket - Green

| Sample Number | Sample Location/Description | Approx. Area (Sq Ft or LF) | Friable or Non-friable | Intact or Damaged |
|---|---|---|---|---|
| 10 | Mech Rm - NW | ~ < 1 sf (Two [2] gaskets) | NF | I |
| | | | | |
| | | | | |
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| | | | | |
| | | | | |
| | | | | |

**Additional Comments:** On ~8" - water supply pipe. Patch only (~ < 1 sf; 2 green gaskets). Remaining gaskets are black or red rubber.
Louvers on W wall have non-suspect fiberglass insulation.

OrderID: 322225414

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# BULK SAMPLE LOG

#322225414

Project Name: CNUSD/Centennial HS Ag  Collected By: LeW

Project No.: 22-16-161-01  Date: 12/21/22

**HOMOGENEOUS MATERIAL:** Gasket (Black/Red) - Patch only

| Sample Number | Sample Location/Description | Approx. Area (Sq Ft or LF) | Friable or Non-friable | Intact or Damaged |
|---|---|---|---|---|
| 11 | Mech Rm - NW | ~<1sf (one gasket) | NF | I |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

**Additional Comments:** On 4" - cold water supply pipe (Patch only), 1 gasket
Plastic pipe wrap over copper at pipe base.

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# #322225414 BULK SAMPLE LOG

Project Name: CNSD/Centennial HS Aq. Ctr. Collected By: KW

Project No.: 22-46-461-01 Date: 12/21/22

**HOMOGENEOUS MATERIAL:** Duct Joint Compound (Patch)

| Sample Number | Sample Location/Description | Approx. Area (Sq Ft or LF) | Friable or Non-friable | Intact or Damaged |
|---|---|---|---|---|
| 12 | Media Room - NE Corner | ~6 KW | NF | I |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

**Additional Comments:** On metal duct joint (patch only). Also observed in Boy's RR ceiling space (inaccessible).

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#322225414

# BULK SAMPLE LOG

Project Name: CNUSD / Centennial HS Aq. Ctr. Collected By: KW

Project No.: 22-16-161-01 Date: 12/21/22

**HOMOGENEOUS MATERIAL:** Drywall / Joint Compound, ceilings

| Sample Number | Sample Location/Description | Approx. Area (Sq Ft or LF) | Friable or Non-friable | Intact or Damaged |
|---|---|---|---|---|
| 13 | Hypochlorite Tank Rm – SWC Ceiling | ~2,000 | NF | I |
| 14 | Boy's RR – NW side ceiling | ↓ | ↓ | ↓ |
| 15 | ↓ – SW side ceiling | ↓ | ↓ | ↓ |
| 16 | Girl's Locker Rm – S side ceiling | ↓ | ↓ | ↓ |
| 17 | Girl's RR – W side ceiling | ↓ | ↓ | ↓ |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

**Additional Comments:** Over steel.

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# BULK SAMPLE LOG

Project Name: CNUSD / Centennial HS Ag. Ctr. Collected By: KW

Project No.: 22-16-161-01 Date: 12/21/22

**HOMOGENEOUS MATERIAL:** Roof Core

| Sample Number | Sample Location/Description | Approx. Area (Sq Ft or LF) | Friable or Non-friable | Intact or Damaged |
|---|---|---|---|---|
| 18 | N side | ~2,400 | NF | I |
| 19 | E Ctr. | ↓ | ↓ | ↓ |
| 20 | SE | ↓ | ↓ | ↓ |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

**Additional Comments:** Over wood. Plastic coated, with paint

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#322225414

# BULK SAMPLE LOG

Project Name: CMUSD/Centennial HS Aq. Ctr. Collected By: KW

Project No.: 22-16-161-01 Date: 12/21/22

**HOMOGENEOUS MATERIAL:** Roof Parapet Core

| Sample Number | Sample Location/Description | Approx. Area (Sq Ft or LF) | Friable or Non-friable | Intact or Damaged |
|---|---|---|---|---|
| 21 | N Ctr. | ~600 | NF | I |
| 22 | E Ctr. | ↓ | ↓ | ↓ |
| 23 | SE | ↓ | ↓ | ↓ |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

**Additional Comments:** Over CMU. Parapet metal sheet has screws. Silicone on flashing metal joints.
Three (3) suspect lead-jacketed pipes at roof drains.
Metal Cap/ Fascia

OrderID: 322225414

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# BULK SAMPLE LOG

Project Name: #322225414 Centennial HS Ag. Cfr. Collected By: KW

Project No.: 22-16-161-01 Date: 12/21/22

**HOMOGENEOUS MATERIAL:** Decorative Brick Mortar

| Sample Number | Sample Location/Description | Approx. Area (Sq Ft or LF) | Friable or Non-friable | Intact or Damaged |
|---|---|---|---|---|
| 24 | N side | ~300 | NF | I |
| 25 | E side | ↓ | ↓ | ↓ |
| 26 | SE | ↓ | ↓ | ↓ |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

**Additional Comments:** Along building top perimeter. Ceramic tile/mastic ribbon under brick not sampled (non-destructive)

OrderID: 322225414

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# BULK SAMPLE LOG

Project Name: CNUSD / Centennial HS Ag. Ctr. Collected By: KW

Project No.: 22-16-161-01 Date: 12/21/22

**HOMOGENEOUS MATERIAL:** Black roof Mastic

| Sample Number | Sample Location/Description | Approx. Area (Sq Ft or LF) | Friable or Non-friable | Intact or Damaged |
|---|---|---|---|---|
| 27 | NW side on pipe penetration | ~40 | NF | I |
| 28 | ~Ctr. on metal vent | ↓ | ↓ | ↓ |
| 29 | S on water heater vent | ↓ | ↓ | ↓ |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

**Additional Comments:** Covered with plasticized material & paint

OrderID: 322225414

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#322225414

## BULK SAMPLE LOG

Project Name: CNUSD / Centennial HS Ag. Ctr. Collected By: KW

Project No.: 22-16-161-01 Date: 12/21/22

**HOMOGENEOUS MATERIAL:** Plaster Walls

| Sample Number | Sample Location/Description | Approx. Area (Sq Ft or LF) | Friable or Non-friable | Intact or Damaged |
|---|---|---|---|---|
| 30 | Boy's RR, W wall | ~1,600 | NF | I |
| 31 | ↓, SE side wall | ↓ | ↓ | ↓ |
| 32 | ↓, SW wall | ↓ | ↓ | ↓ |
| 33 | Girl's RR, NW wall | ↓ | ↓ | ↓ |
| 34 | ↓, SW wall | ↓ | ↓ | ↓ |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

**Additional Comments:** Over berrier paper and wood.

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# #322225414 BULK SAMPLE LOG

Project Name: CNUSD / Centennial HS Aq. Ctr. Collected By: KW

Project No.: 22-16-161-01 Date: 12/21/22

**HOMOGENEOUS MATERIAL:** Vapor Barrier paper

| Sample Number | Sample Location/Description | Approx. Area (Sq Ft or LF) | Friable or Non-friable | Intact or Damaged |
|---|---|---|---|---|
| 35 | Boy's RR, W wall | ~ 1,600 | NF | I |
| 36 | ↓ ↓ | ↓ | ↓ | ↓ |
| 37 | ↓ , SE wall | ↓ | ↓ | ↓ |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

**Additional Comments:** Over wood. Batted fiberglass insulation noted. Potential mirror mastic in Boy's RR. No sink undercoat.

OrderID: 322225414

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#322225414

# BULK SAMPLE LOG

Project Name: CNUSD/Centennial HS Ag. Cl. Collected By: KW

Project No.: 22-16-161-01 Date: 12/21/22

**HOMOGENEOUS MATERIAL:** Duct joint compound patch

| Sample Number | Sample Location/Description | Approx. Area (Sq Ft or LF) | Friable or Non-friable | Intact or Damaged |
|---|---|---|---|---|
| 38 | Boy's RR entrance on duct above Drywall ceiling | ~3 | NF | I |
| | | low | | |
| | | | | |
| | | | | |
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| | | | | |
| | | | | |

**Additional Comments:** Batted fiberglass insulation with silvery backing noted on wood deck. Also observed in Girl's RR ceiling space (inaccessible).

OrderID: 322225414

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#322225414

# BULK SAMPLE LOG

Project Name: CNUSD/Centennial HS Ag, Clr. Collected By: KW

Project No.: 22-16-161-01 Date: 12/21/22

**HOMOGENEOUS MATERIAL:** Drywall / joint compound wall

| Sample Number | Sample Location/Description | Approx. Area (Sq Ft or LF) | Friable or Non-friable | Intact or Damaged |
|---|---|---|---|---|
| 39 | Janitor closet by Boy's RR - SE | ~ 200 | NF | I |
| 40 | - NE | ↓ | ↓ | ↓ |
| 41 | ↓ ↓ | ↓ | ↓ | ↓ |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

**Additional Comments:** Over wood. RR walls are lath and plaster; remaining division walls are wood panels over wood studs. Perimeter walls are CMU.

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#322225414

# BULK SAMPLE LOG

Project Name: CNUSD / Centennial HS Ag. Cfr. Collected By: KW

Project No.: 22-16-161-01 Date: 12/21/22

**HOMOGENEOUS MATERIAL:** Duct joint Tape patch

| Sample Number | Sample Location/Description | Approx. Area (Sq Ft or LF) | Friable or Non-friable | Intact or Damaged |
|---|---|---|---|---|
| 42 | Boy's RR ceiling space, N | ~ 6 | NF | I |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

**Additional Comments:** Patch only on metal duct.

OrderID: 322225414

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#322225414

# BULK SAMPLE LOG

Project Name: CNUSD / Centennial HS Aq. Ctr. Collected By: KW

Project No.: 22-16-161-01 Date: 12/21/22

**HOMOGENEOUS MATERIAL:** Baseboard mastic

| Sample Number | Sample Location/Description | Approx. Area (Sq Ft or LF) | Friable or Non-friable | Intact or Damaged |
|---|---|---|---|---|
| 43 | Boy's Locker Rm - W | ~250 | NF | I |
| 44 | - NW | ↓ | ↓ | ↓ |
| 45 | ↓ ↓ | ↓ | ↓ | ↓ |
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**Additional Comments:** Over wood / CMU. Grey, 4" vinyl baseboard throughout locker rooms, hallways, offices.

OrderID: 322225414

**Converse Consultants**

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717 S. Myrtle Avenue
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☐ Costa Mesa Office
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Costa Mesa, CA 92626
(714) 444-9660

☒ Rancho Office
8333 Foothill Blvd. Suite 104
Rancho Cuca, CA 91730
(909) 796-0544

#322225414

# BULK SAMPLE LOG

Project Name: CUSD / Centennial HS Aq. Ctr. Collected By: LEW

Project No.: 22-06-161-01 Date: 12/22/22

**HOMOGENEOUS MATERIAL:** Concrete pool deck

| Sample Number | Sample Location/Description | Approx. Area (Sq Ft or LF) | Friable or Non-friable | Intact or Damaged |
|---|---|---|---|---|
| 46 | Pool Deck – N ctr. | ~12,600 | NF | I |
| 47 | – W side by water edge | ↓ | ↓ | ↓ |
| 48 | – SE near drain | ↓ | ↓ | ↓ |
| | | | | |
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**Additional Comments:** Pool gunnite and tiles (blue; black; small white and black) not sampled. Pool occupied. LW

Ceramic tile observed underneath pool deck crack at Sample location #46.

OrderID: 322225414

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(909) 796-0544

#322225414

# BULK SAMPLE LOG

Project Name: CNUSD / Centennial HS Ag. Ctr. Collected By: LeW

Project No.: 22-16-161-01 Date: 12/22/22

**HOMOGENEOUS MATERIAL:** CMU Mortar (Square CMU)

| Sample Number | Sample Location/Description | Approx. Area (Sq Ft or LF) | Friable or Non-friable | Intact or Damaged |
|---|---|---|---|---|
| 49 | Building exterior - SEC | ~4,500 | NF | I |
| 50 | - NEC | ↓ | ↓ | ↓ |
| 51 | - E, by Main Entrance | ↓ | ↓ | ↓ |
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**Additional Comments:**

Converse Consultants

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#322225414

# BULK SAMPLE LOG

Project Name: CNUSD / Centennial AS Ag. Ctr. Collected By: KW

Project No.: 22-16-161-01 Date: 12/22/22

**HOMOGENEOUS MATERIAL:** Concrete walkway

| Sample Number | Sample Location/Description | Approx. Area (Sq Ft or LF) | Friable or Non-friable | Intact or Damaged |
|---|---|---|---|---|
| 52 | E stair landing by main entrance | ~11,200 | NF | I |
| 53 | S Ctr. near light post | ↓ | ↓ | ↓ |
| 54 | SW Corner | ↓ | ↓ | ↓ |
| | | | | |
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**Additional Comments:**

OrderID: 322225414

**Converse Consultants**

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# #322225414 BULK SAMPLE LOG

Project Name: CNUSD/Centennial HS Aq. Ctr. Collected By: KW

Project No.: 22-16-161-01 Date: 12/22/22

**HOMOGENEOUS MATERIAL:** Asphalt

| Sample Number | Sample Location/Description | Approx. Area (Sq Ft or LF) | Friable or Non-friable | Intact or Damaged |
|---|---|---|---|---|
| 55 | E Ctr. parking by main entrance | ~40,000 | NF | I |
| 56 | S near pool gate by bldg. | ↓ | ↓ | ↓ |
| 57 | W Ctr. parking by fence | ↓ | ↓ | ↓ |
| | | | | |
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**Additional Comments:**

OrderID: 322225414

**Converse Consultants**

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(909) 796-0544

#322225414

# BULK SAMPLE LOG

Project Name: CNUSD / Centennial HS Ag. Ctr. Collected By: LeW

Project No.: 22-16-161-01 Date: 12/22/22

**HOMOGENEOUS MATERIAL:** Asphalt w/ felt

| Sample Number | Sample Location/Description | Approx. Area (Sq Ft or LF) | Friable or Non-friable | Intact or Damaged |
|---|---|---|---|---|
| 58 | N side by student drop-off, E | ~20,000 | NF | I |
| 59 | ↓ , Ctr. | ↓ | ↓ | ↓ |
| 60 | ↓ , W | ↓ | ↓ | ↓ |
| | | | | |
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**Additional Comments:**

OrderID: 322225414

**Converse Consultants**

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#322225414

# BULK SAMPLE LOG

Project Name: CNUSD / Centennial HS Aq. Ctr. Collected By: KW

Project No.: 22-16-161-01 Date: 12/22/22

**HOMOGENEOUS MATERIAL:** Concrete swale

| Sample Number | Sample Location/Description | Approx. Area (Sq Ft or LF) | Friable or Non-friable | Intact or Damaged |
|---|---|---|---|---|
| 61 | N side by student drop-off | ~1,500 | NF | I |
| 62 | N Ctr near school/perimeter | ↓ | ↓ | ↓ |
| 63 | W side parking area, N | ↓ | ↓ | ↓ |
| | | | | |
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| | | | | |

**Additional Comments:**

OrderID: 322225414

**Converse Consultants**

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717 S. Myrtle Avenue
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#322225414

# BULK SAMPLE LOG

Project Name: CNUSD / Centennial HS Ag. Cfr. Collected By: KW

Project No.: 22-16-161-01 Date: 12/22/22

**HOMOGENEOUS MATERIAL:** Concrete Car Stops

| Sample Number | Sample Location/Description | Approx. Area (Sq Ft or LF) | Friable or Non-friable | Intact or Damaged |
|---|---|---|---|---|
| G4 | W side by fence, S | ~240 | NF | I |
| G5 | ↓ , N | ↓ | ↓ | ↓ |
| G6 | E side by Main Entrance, S | ↓ | ↓ | ↓ |
| | | | | |
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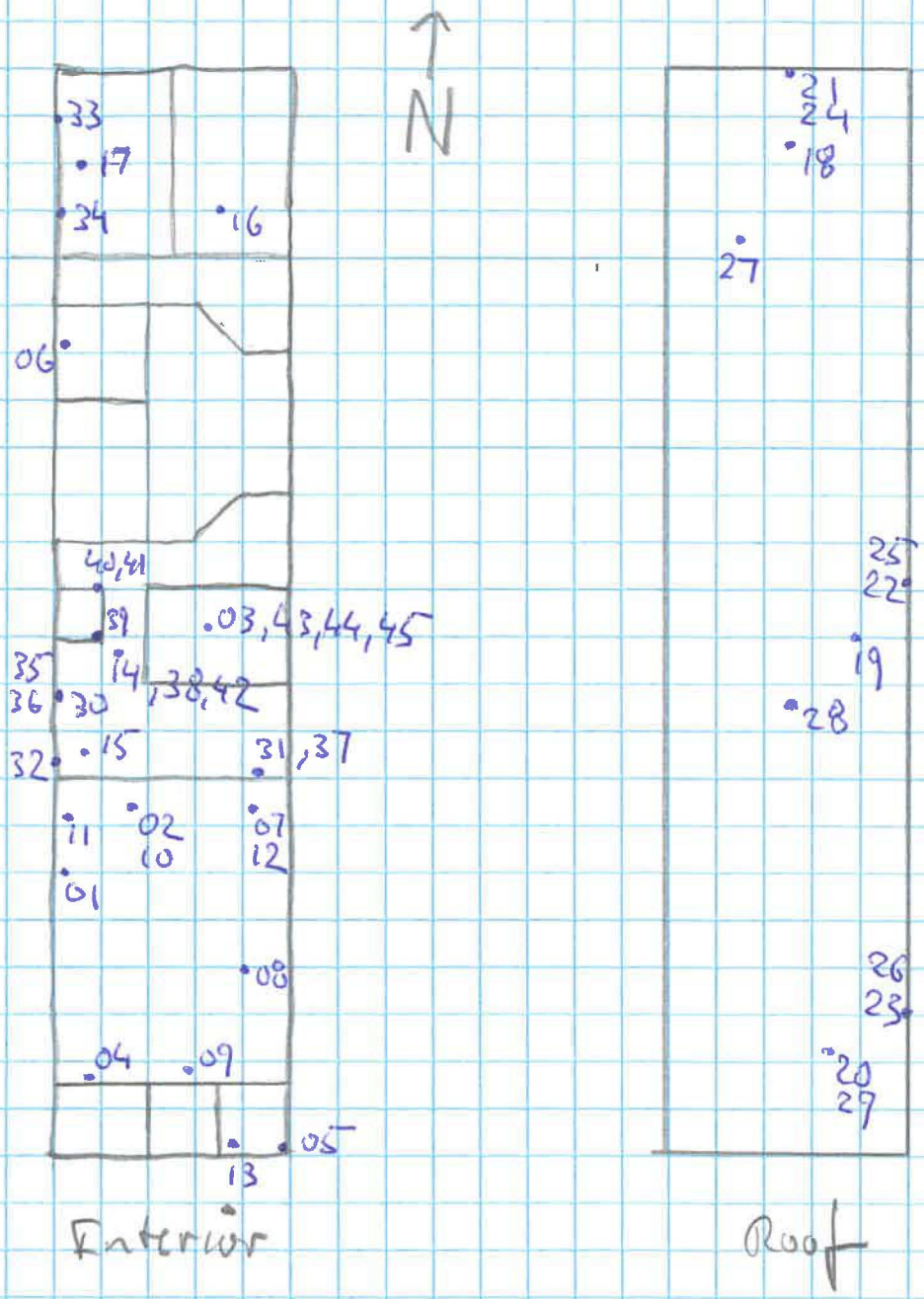
**Additional Comments:**




Bulk Sample Location Map

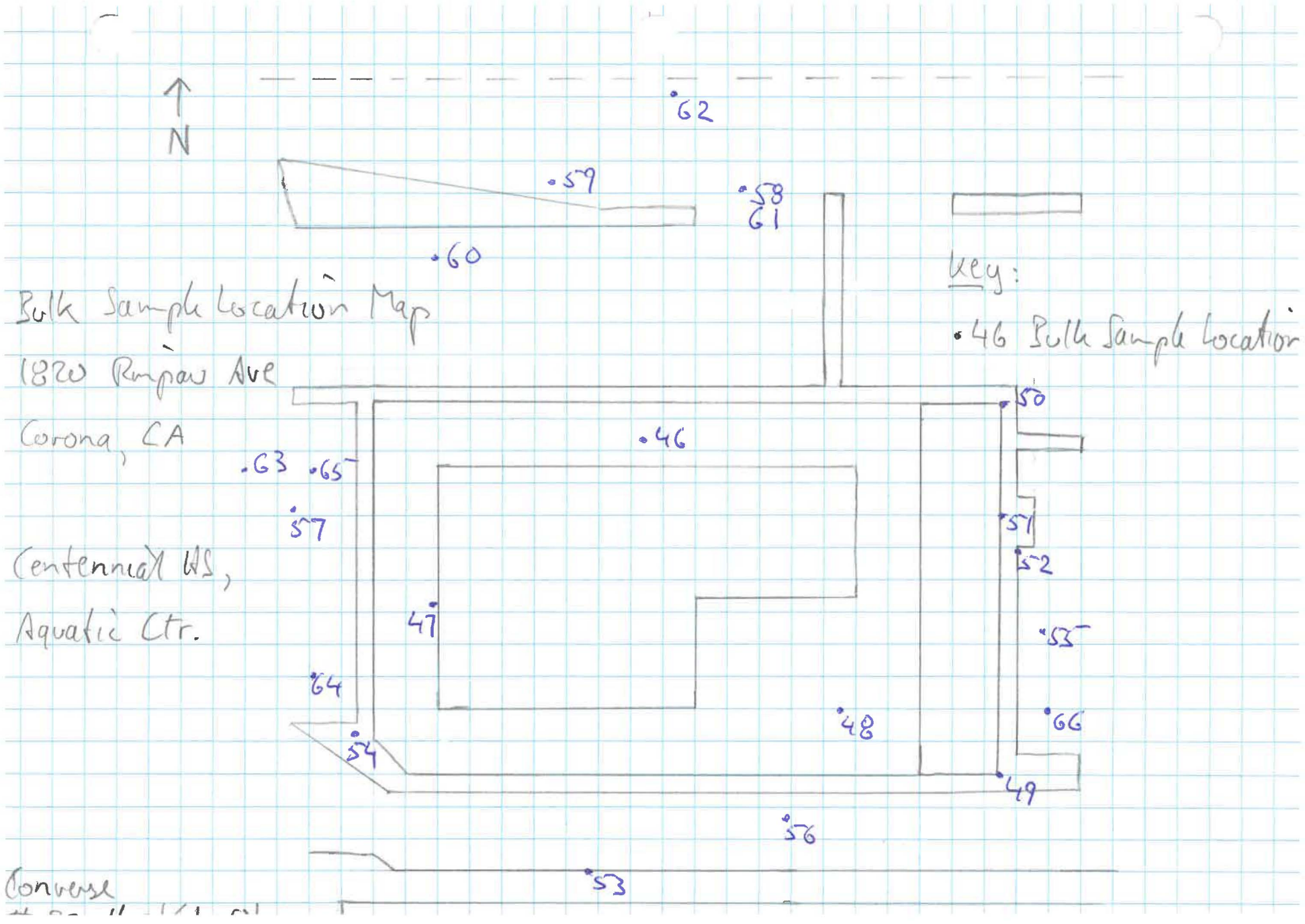
1820 Rimpau Avenue, Corona, CA

Centennial HS Aquatic Ctr. Pool Bldg

Key

• 01 Bulk Sample Location

Convoy # 22-16-161-01


N
Bulk Sample Location Map
1820 Rimpau Ave
Corona, CA
Centennial HS,
Aquatic Ctr.
Converse
Key:
•46 Bulk Sample Location
62
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# LBP / LCM

## XRF Summary Table
## Field Notes


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Dates of Inspection: 12/21,23/22
Inspector: R. Stansfield
CDPH #00004397

**XRF Summary Table**
**Centennial High School**
**Aquatic Center**

Analyzer: Viken Pb200i
Units: $mg/cm^2$
Action Lvl: 1.0 $mg/cm^2$

| Reading No. | Location | Component | Component Comment | Substrate | Side | Color | Condition | Pb Conc. | Result |
|---|---|---|---|---|---|---|---|---|---|
| ***Readings collected on December 21st.*** | | | | | | | | | |
| 175 | | Calibration | | | | | | 0.9 | Negative |
| 176 | | Calibration | | | | | | 0.9 | Negative |
| 177 | | Calibration | | | | | | 0.9 | Negative |
| 178 | Roof | Misc | Roof | Plastic | | White | Intact | 0.3 | Negative |
| 179 | Roof | Room | Wall | Plastic | North | White | Intact | 0.2 | Negative |
| 180 | Roof | Fascia | | Metal | North | Gray | Deteriorated | 0.3 | Negative |
| 181 | Roof | Room | Wall | Ceramic | North | Blue | Intact | 0.3 | Negative |
| 182 | Roof | Room | Wall | Metal | East | White | Intact | 0.1 | Negative |
| 183 | Roof | Fascia | | Metal | West | Blue | Deteriorated | 0.3 | Negative |
| 184 | Roof | Vent | | Metal | North | White | Intact | 0.1 | Negative |
| 185 | Roof | Vent | | Metal | North | White | Intact | 0.2 | Negative |
| ***186*** | ***Roof*** | ***Vent Pipe*** | ***1 of 3*** | ***Metal*** | ***North*** | ***White*** | ***Intact*** | ***23.6*** | ***Positive*** |
| 187 | Roof | Misc | Drain | Metal | North | White | Intact | 0 | Negative |
| 188 | Roof | Vent | | Metal | East | White | Intact | 0.1 | Negative |
| 189 | Roof | Vent | | Metal | East | White | Intact | 0.1 | Negative |
| 190 | Roof | Vent | | Metal | East | White | Intact | 0.1 | Negative |
| 191 | Roof | Vent | | Metal | East | White | Intact | 0 | Negative |
| 192 | Roof | Pipe | Vertical | Metal | East | White | Intact | 0 | Negative |
| 193 | Roof | Pipe | Vertical | Metal | East | White | Intact | 0.2 | Negative |
| 194 | Roof | Railing | | Metal | West | White | Intact | -0.1 | Negative |
| 195 | Roof | Misc | Hatch | Metal | West | White | Intact | 0 | Negative |
| 196 | Roof | Misc | Hatch | Metal | West | Green | Intact | 0 | Negative |
| 197 | Pool Yard | Deck | Floor | Concrete | North | Yellow | Intact | 0.3 | Negative |
| 198 | Pool Yard | Deck | Floor | Ceramic | East | Off White | Intact | 0.2 | Negative |
| 199 | Pool Yard | Deck | Floor | Ceramic | South | Off White | Intact | 0.3 | Negative |
| 200 | Exterior | Stair | Treads | Concrete | North | Blue | Intact | 0.2 | Negative |

Dates of Inspection: 12/21,23/22
Inspector: R. Stansfield
CDPH #00004397

**XRF Summary Table**
**Centennial High School**
**Aquatic Center**

Analyzer: Viken Pb200i
Units: $mg/cm^2$
Action Lvl: 1.0 $mg/cm^2$

| Reading No. | Location | Component | Component Comment | Substrate | Side | Color | Condition | Pb Conc. | Result |
|---|---|---|---|---|---|---|---|---|---|
| 201 | Exterior | Stair | Treads | Concrete | East | Blue | Intact | 0.2 | Negative |
| 202 | Exterior | Fascia | | Metal | East | Gray | Intact | 0.3 | Negative |
| 203 | Exterior | Door | | Metal | East | Gray | Intact | 0 | Negative |
| 204 | Exterior | Door | Frame | Metal | East | Gray | Intact | 0.5 | Negative |
| 205 | Exterior | Misc | Sidewalk | Concrete | East | Blue | Intact | 0.2 | Negative |
| 206 | Exterior | Door | | Metal | South | Blue | Intact | 0 | Negative |
| 207 | Exterior | Door | Frame | Metal | South | Blue | Intact | 0.5 | Negative |
| 208 | Exterior | Door | Frame | Metal | South | Blue | Intact | 0.5 | Negative |
| 209 | Exterior | Door | Frame | Metal | South | Blue | Intact | 0.3 | Negative |
| 210 | Exterior | Misc | Sidewalk | Concrete | South | Red | Intact | 0.4 | Negative |
| 211 | Exterior | Door | | Metal | West | Gray | Intact | 0.1 | Negative |
| 212 | Exterior | Door | Frame | Metal | West | Gray | Intact | 0.5 | Negative |
| 213 | Exterior | Room | Wall | Ceramic | West | Blue | Intact | 0.3 | Negative |
| 214 | Exterior | Room | Wall | Wood | West | Gray | Intact | -0.1 | Negative |
| 215 | Exterior | Window | Sash | Metal | West | Gray | Intact | 0.1 | Negative |
| 216 | Exterior | Window | Frame | Metal | West | Gray | Intact | 0.1 | Negative |
| 217 | Exterior | Vent | | Metal | West | Off White | Intact | 0 | Negative |
| 218 | Exterior | Electric Panel | Frame | Metal | West | Off White | Intact | 0.1 | Negative |
| 219 | Girls Restroom | Room | Ceiling | Drywall | | Off White | Intact | 0 | Negative |
| 220 | Girls Restroom | Room | Wall | Ceramic | North | Off White | Intact | 0.1 | Negative |
| 221 | Girls Restroom | Room | Wall | Ceramic | North | Blue | Intact | 0.2 | Negative |
| 222 | Girls Restroom | Room | Wall | Ceramic | North | Black | Intact | 0.2 | Negative |
| 223 | Girls Restroom | Toilet | | Ceramic | East | White | Intact | -0.2 | Negative |
| 224 | Girls Restroom | Room | Wall | Metal | East | Blue | Intact | 0.2 | Negative |
| 225 | Girls Restroom | Misc | Hand Dryer | Ceramic | South | White | Intact | 0.2 | Negative |
| 226 | Girls Restroom | Misc | Sink | Ceramic | West | White | Intact | 0.3 | Negative |
| 227 | Girls Restroom | Room | Floor | Ceramic | | Gray | Intact | 0.2 | Negative |
| 228 | Girls Locker | Room | Ceiling | Drywall | | Off White | Intact | 0.2 | Negative |

**XRF Summary Table**
**Centennial High School**
**Aquatic Center**



| Reading No. | Location | Component | Component Comment | Substrate | Side | Color | Condition | Pb Conc. | Result |
|---|---|---|---|---|---|---|---|---|---|
| 229 | Girls Locker | Room | Wall | CMU | North | Gray | Intact | 0.2 | Negative |
| 230 | Girls Locker | Room | Wall | CMU | East | Gray | Intact | 0.3 | Negative |
| 231 | Girls Locker | Room | Wall | Wood | South | Beige | Intact | 0 | Negative |
| 232 | Girls Locker | Room | Wall | Wood | South | Red | Intact | -0.1 | Negative |
| 233 | Girls Locker | Misc | Bench | Wood | West | Red | Intact | -0.3 | Negative |
| 234 | Lobby, Corridors | Room | Wall | Wood | North | Beige | Intact | -0.1 | Negative |
| 235 | Lobby, Corridors | Room | Wall | Wood | North | Red | Intact | -0.3 | Negative |
| 236 | Lobby, Corridors | Door | | Metal | North | Gray | Intact | 0.1 | Negative |
| 237 | Lobby, Corridors | Door | Frame | Metal | North | Gray | Intact | 0.1 | Negative |
| 238 | Lobby, Corridors | Room | Wall | CMU | East | Gray | Intact | 0.2 | Negative |
| 239 | Lobby, Corridors | Room | Wall | Wood | South | Beige | Intact | 0 | Negative |
| 240 | Lobby, Corridors | Room | Wall | Wood | West | Red | Intact | -0.1 | Negative |
| 241 | Lobby, Corridors | Door | | Metal | West | Gray | Intact | 0.1 | Negative |
| 242 | Lobby, Corridors | Door | Frame | Metal | West | Gray | Intact | 0.1 | Negative |
| 243 | West Office | Room | Ceiling | Drywall | | Beige | Intact | 0 | Negative |
| 244 | West Office | Vent | | Metal | | Beige | Intact | -0.1 | Negative |
| 245 | West Office | Vent | | Metal | | Beige | Intact | 0.1 | Negative |
| 246 | West Office | Room | Wall | Wood | North | Beige | Intact | 0 | Negative |
| 247 | West Office | Room | Wall | Wood | North | Red | Intact | 0 | Negative |
| 248 | West Office | Room | Wall | CMU | West | Gray | Intact | 0 | Negative |
| 249 | West Storage | Room | Wall | Wood | North | Beige | Intact | -0.1 | Negative |
| 250 | West Storage | Room | Wall | Wood | South | Gray | Intact | -0.1 | Negative |
| 251 | | Calibration | | | | | | 1.2 | Positive |
| 252 | | Calibration | | | | | | 1.2 | Positive |
| 253 | | Calibration | | | | | | 1.2 | Positive |
| ***Reading collected on December 23rd. Numbering sequence restarted at #1.*** | | | | | | | | | |
| 1 | | Calibration | | | | | | 1 | Positive |

Dates of Inspection: 12/21,23/22
Inspector: R. Stansfield
CDPH #00004397

**XRF Summary Table**
**Centennial High School**
**Aquatic Center**

Analyzer: Viken Pb200i
Units: $mg/cm^2$
Action Lvl: 1.0 $mg/cm^2$

| Reading No. | Location | Component | Component Comment | Substrate | Side | Color | Condition | Pb Conc. | Result |
|---|---|---|---|---|---|---|---|---|---|
| 2 | | Calibration | | | | | | 1 | Positive |
| 3 | | Calibration | | | | | | 1 | Positive |
| 4 | Boys Restroom | Room | Ceiling | Drywall | | Off White | Intact | 0 | Negative |
| 5 | Boys Restroom | Room | Wall | Ceramic | North | White | Intact | 0.1 | Negative |
| 6 | Boys Restroom | Misc | Dryer | Ceramic | North | White | Intact | 0.3 | Negative |
| 7 | Boys Restroom | Room | Wall | Ceramic | East | Blue | Intact | 0.1 | Negative |
| 8 | Boys Restroom | Room | Wall | Ceramic | East | Black | Intact | 0.1 | Negative |
| 9 | Boys Restroom | Toilet | | Ceramic | South | White | Intact | -0.3 | Negative |
| 10 | Boys Restroom | Urinal | | Ceramic | South | White | Intact | -0.2 | Negative |
| 11 | Boys Restroom | Urinal | | Ceramic | South | White | Intact | -0.2 | Negative |
| 12 | Boys Restroom | Room | Wall | Metal | South | Blue | Intact | 0.2 | Negative |
| 13 | Boys Restroom | Misc | Sink | Ceramic | West | White | Intact | -0.2 | Negative |
| 14 | Boys Restroom | Room | Wall | Ceramic | West | Blue | Intact | 0.1 | Negative |
| 15 | Boys Locker | Room | Wall | Wood | North | Beige | Intact | 0 | Negative |
| 16 | Boys Locker | Room | Wall | Wood | North | Red | Intact | 0.1 | Negative |
| 17 | Boys Locker | Misc | Bench | Wood | North | Red | Intact | -0.2 | Negative |
| 18 | Boys Locker | Room | Wall | CMU | East | Gray | Intact | 0.3 | Negative |
| 19 | Boys Restroom | Room | Floor | Ceramic | | Gray | Intact | 0.2 | Negative |
| 20 | Custodial | Room | Ceiling | Plaster | | Beige | Intact | 0 | Negative |
| 21 | Custodial | Room | Wall | Plaster | North | Beige | Intact | 0.1 | Negative |
| 22 | Custodial | Door | | Metal | East | Gray | Intact | 0.2 | Negative |
| 23 | Custodial | Door | Frame | Metal | East | Gray | Intact | 0.1 | Negative |
| 24 | Custodial | Misc | Ladder | Metal | South | Beige | Intact | 0.1 | Negative |
| 25 | Pump Room | Pipe | Horizontal | Metal | North | Blue | Intact | 0.1 | Negative |
| 26 | Pump Room | Pipe | Vertical | Metal | North | Green | Intact | -0.2 | Negative |
| 27 | Pump Room | Pipe | Horizontal | Metal | North | Lt-Brown | Intact | 0.3 | Negative |
| 28 | Pump Room | Misc | Tank | Metal | North | Lt-Brown | Intact | 0.1 | Negative |
| 29 | Pump Room | Misc | Tank | Metal | North | Blue | Intact | 0.2 | Negative |

**XRF Summary Table**
**Centennial High School**
**Aquatic Center**



| Reading No. | Location | Component | Component Comment | Substrate | Side | Color | Condition | Pb Conc. | Result |
|---|---|---|---|---|---|---|---|---|---|
| 30 | Pump Room | Railing | | Metal | North | Gray | Intact | 0.1 | Negative |
| 31 | Pump Room | Door | | Metal | South | Gray | Intact | -0.3 | Negative |
| 32 | Pump Room | Door | Frame | Metal | South | Gray | Intact | 0.5 | Negative |
| 33 | Pump Room | Misc | Bracket | Metal | East | Gray | Intact | 0 | Negative |
| 34 | SW Chem Strg | Pipe | Vertical | Metal | West | Gray | Intact | 0.2 | Negative |
| ***35*** | ***South Chem Strg*** | ***Misc*** | ***Tank*** | ***Metal*** | ***West*** | ***Gray*** | ***Intact*** | ***1.6*** | ***Positive*** |
| 36 | Pool Yard | Room | Wall | Ceramic | East | Blue | Intact | 0.5 | Negative |
| 37 | | Calibration | | | | | | 1.1 | Positive |
| 38 | | Calibration | | | | | | 1 | Positive |
| 39 | | Calibration | | | | | | 1 | Positive |

# XRF SAMPLE LOG

**Converse Consultants**

717 S. Myrtle Avenue
Monrovia, CA 91016
Tel.: 626.930.1200
Fax: 626.930.1212

Project Name: Centennial HS
Project No.: 22-16-161-01
Date: 12/21/22
Sampled By: RDS

Project Address: 1820 Rimpau Ave, Corona, CA
Client Contact: Maria Moreno

| Sample No. | Interior | Exterior | Paint Color | Substrate | Sample Location & Comments | Condition | Lead Conc. (mg/cm²) | LBP Yes | LBP No |
|---|---|---|---|---|---|---|---|---|---|
| 178 | | X | White | Plastic | 58 = Roof. Center. Felt. | Int | 0.3 | | X |
| 181 | | X | Blue | Ceramic | 58. North Exterior wall, at top. Tiles | | 0.3 | | X |
| 184 | | X | White | Metal | 58, NW Roof. Square vent (1 of 5) | | 0.1 | | X |
| 185 | | X | ↓ | ↓ | 58. North Roof. "Mushroom" vent (1 of 4) | | 0.2 | | X |
| 186 | | X | | | 58. NE Roof, uncovered vent near drain (1 of 3) | | 23.6 | X | |
| 188 | | X | | | 58, East Roof. Flat Round Vent (1 of 2) | | 0.1 | | X |
| 197 | | X | Yellow | Concrete | 59 = Pool Yard. concrete walkway, near NE Corner | | 0.3 | | X |
| 200 | | X | Blue | ↓ | 60 = Bldg Ext. North steps | | 0.2 | | X |
| 204 | | X | Gray | Metal | 60. East door frame (double) | | 0.5 | | X |
| 207 | | X | ↓ | ↓ | 60. South double door frames, west set | | 0.5 | | X |
| 212 | | X | ↓ | ↓ | 60. West side door to Girls' Locker (single). Frame | | 0.5 | | X |
| 219 | X | | off white | DW | 61 = Girls' Restroom. ceiling | ↓ | 0.0 | | X |

Additional Comments: Aquatic Center. #184-186: Fascia → Vent. #197 on: Porch → Deck
No suspect observed in North plenum

# XRF SAMPLE LOG

**Converse Consultants**

717 S. Myrtle Avenue
Monrovia, CA 91016
Tel.: 626.930.1200
Fax: 626.930.1212

Project Name: Centennial HS
Project No.: 22-16-161-01
Date: 12/21/22
Sampled By: RDS

Project Address: _____

Client Contact: _____

| Sample No. | Interior | Exterior | Paint Color | Substrate | Sample Location & Comments | Condition | Lead Conc. (mg/cm²) | LBP | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Yes | No |
| 228 | X | | off-white | DW | 62 = Girls' Locker Rm. ceiling | Int | 0.2 | | X |
| 234 | X | | Beige | Wood | 63 = Center Lobby + Corridors. North wall | | -0.1 | | X |
| 243 | X | | | DW | 64 = West office. ceiling | | 0.0 | | X |
| 249 | X | | | Wood | 65 = West Storage Closet. North wall | | -0.1 | | X |
| | | | | | | | | | |
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Additional Comments: _____

# XRF SAMPLE LOG

**Converse Consultants**

717 S. Myrtle Avenue
Monrovia, CA 91016
Tel.: 626.930.1200
Fax: 626.930.1212

Project Name: Centennial HS
Project No.: 22-16-161-01
Date: 12/23/22
Sampled By: RDS

Project Address: 1820 Rimpau Ave
Corona, CA

Client Contact: Maria Moreno

| Sample No. | Interior | Exterior | Paint Color | Substrate | Sample Location & Comments | Condition | Lead Conc. (mg/cm²) | LBP Yes | LBP No |
|---|---|---|---|---|---|---|---|---|---|
| 04 | X | | Off-White | DW | 66 = Boys' Restroom. Ceiling | Fnt | 0.0 | | X |
| 15 | X | | Beige | Wood | 67 = Boys' Locker Room. North Wall | | 0.0 | | X |
| 20 | X | | ↓ | Plaster | 68 = Custodial Storage. Ceiling | | 0.0 | | X |
| 25 | X | | Blue | Metal | 69 = Pump Room. Part of Pump System | | 0.1 | | X |
| 32 | X | | Gray | | 69.5W Door Frame | | 0.5 | | X |
| 33 | X | | | | 70 = Chemical Storage Compound. Upper Bracket | | 0.0 | | X |
| 35 | X | | | | 71 = Center Chem Storage Room: Tank | | 1.6 | X | |
| 36 | | X | Blue | Ceramic | 59: Porch → Pool Yard. Wall at Pool Entrance Ramp | | 0.5 | | X |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

Additional Comments: 33: 69 → 70

# Asbestos & Lead-base Paint Abatement Specifications

## Centennial High School Aquatic Center
## 1820 Rimpau Avenue
## Corona, California 92881

**Prepared For:**

**Corona-Norco Unified School District**
**2820 Clark Avenue**
**Norco, California 92860**

**Prepared By:**

**Converse Consultants**
**8333 Foothill Boulevard, Suite 104**
**Rancho Cucamonga, California 91730**
**Converse Project No. 22-16-161-01**

**February 1, 2023**

**SECTION 02 82 13**

**ASBESTOS ABATEMENT**
**Revision 00**

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## PART 1 - GENERAL

### 1.01 SUMMARY AND SCOPE

A. Applicable provisions of Division 01 – General Requirements shall govern work under this section.

B. Perform all operations in connection with asbestos abatement, spot abatement, removal and related work as shown on drawings, specific scopes of work, and/or as specified herein.

C. Description of Work - Removal and Cleanup; This specification is for the removal and/or cleanup of the following presumed asbestos-containing materials (PACMs).

The survey completed by Converse Consultants was a non-destructive survey; therefore, the following suspect materials were not sampled:

- Grout and mortar to ceramic tiles
- Interior lining of the pool.

Therefore, this Specification is being provided in an abundance of caution. If the above materials are not sampled and analyzed for asbestos content, the materials must be abated as if the materials are asbestos-containing materials (ACMs).

**It is the responsibility of the bidders to verify actual quantities of the PACMs to be abated in accordance with the scope of work for the project.**

D. Special Precautions: Coordinate with the CNUSD Representative for the shutdown and isolation of all electrical circuits and air movement systems within the regulated area.

E. Special Circumstances: Emergency response may be necessary during non-working hours requiring Contractor personnel to be on-site within 3 hours of notification (e.g., due to weather, vandalism, burglary, etc.).

F. Restoration: Not Applicable.

G. Related work specified elsewhere (enclosed):

| Section Title | Section Number |
|---|---|
| Removal and Disposal of Material Containing Lead | 02 83 33 |

### 1.02 REFERENCES

A. General Reference:

All work under this contract shall be done in accordance with all applicable Federal, State, and local regulations, standards and codes governing asbestos abatement and any other trade work done in conjunction with the abatement. The most recent edition of any relevant regulation in force at the time of bid opening shall be in effect. Where conflict among the laws, rules, regulations, or with these specifications exists, the most stringent requirements shall be utilized.

B. Specific References:

Occupational Safety and Health Administration (OSHA) Title 29 Code of Federal Regulations (CFR):

1910.134 – Respiratory Protection.
1926.1101 – Asbestos; Construction Industry
1926.59 - Hazard Communication Standard; Construction Industry

Environmental Protection Agency (EPA), Title 40 Code of Federal Regulations (CFR) Part 61 - National Emission Standards for Hazardous Air Pollutants; Asbestos NESHAP Revision; Final Rule as amended July 20, 2004.

California Division of Occupational Safety and Health (Cal/DOSH)

8 CCR 1529 – Asbestos
8 CCR 5144 – Respiratory Protection Standard
8 CCR Article 2.5, Sections 341.6 – 341.14 – Registration-Asbestos-Related Work

South Coast Air Quality Management District (SCAQMD) Rule 1403 – Asbestos Emissions from Demolition/Renovation Activities

## 1.03 QUALIFICATIONS

A. The prospective Contractor shall submit to designated Owner Representative the data hereinafter requested within ten (10) business days after Bid Opening.

B. The Contractor shall, <u>if requested:</u>

1. Demonstrate prior experience on asbestos abatement projects of similar nature and scope of that being bid through the submission of letters of reference from building owners including the name, address, and telephone numbers of the contact persons who are specifically familiar with the referenced projects. At least three previous users of this service shall be submitted. Include descriptions of projects and records of all air monitoring data that was generated during the projects.

2. Submit a description of all major Asbestos Abatement Equipment owned by the prospective Contractor which is available for use on this project such as, but not limited to, respiratory protection equipment, HEPA vacuum equipment, negative air pressure equipment, spray equipment for amended water, and equipment used for shower facilities in decontamination enclosure system.

C. The Contractor shall submit a list of names, work responsibilities and evidence of certification for all employees that will be assigned to this project.

D. Contractor or their subcontractor is required to have appropriate State of California Contractors C-22 license to complete asbestos abatement and asbestos-related work.

E. At least one principal, the firm's "competent person" and any other personnel performing supervisory duties must be in possession of current asbestos training documentation as an Asbestos Abatement Supervisor.

F. Contractor or their subcontractor is required to have appropriately trained workers (32-hour class) with certifications to complete asbestos abatement and/or asbestos-related work.

## 1.04 DEFINITIONS

ACGIH:
American Conference of Governmental Industrial Hygienists

AIHA: American Industrial Hygiene Association

Air Monitoring:
The process of measuring the fiber content of a known volume of air collected during a specific period of time shall conform with Appendix A to OSHA 29 CFR 1926.1101. The procedure normally utilized for asbestos follows the NIOSH Standard Analytical Method 7400 for Asbestos in Air. For clearance air monitoring, electron microscopy methods may be utilized for lower detectability limit and specific fiber identification.

Air Sampling Professional:
The Professional contracted to supervise and conduct air monitoring and analysis schemes. This individual shall not be affiliated in any way other than through this contact with the Contractor performing the abatement work.

ANSI: American National Standards Institute

Asbestos:
Means the asbestiform varieties of chrysotile (serpentine); crocidolite (riebeckite); amosite (cummingtonite-grunerite); tremolite; anthophyllite, and actinolite.

Asbestos-Containing Material (ACM):
Material composed of asbestos of any type and in an amount greater than 1%, either alone or mixed with other fibrous or nonfibrous materials.

Asbestos-Containing Construction Material (ACCM):
California OSHA (Cal/OSHA) defines an ACCM as any substance containing one-tenth of one percent (0.1%) to one percent (1%) asbestos by weight.

Asbestos-Containing Waste Material:
Asbestos containing material or asbestos contaminated debris or objects requiring disposal.

ASTM:
American Society for Testing and Materials (now ASTM International)

Authorized Visitor:
The Building Owner (and designated representatives) and any representative of a regulatory agency having jurisdiction over the project.

California Division of Occupational Safety and Health (Cal/DOSH):
The Occupational Safety and Health Enforcement Section aka Cal DOSH or Cal/OSHA which is a part of the California Division of Industrial Relations.

Certified Asbestos Consultant (CAC):
An asbestos competent person registered with Cal/DOSH in accordance with 8 CCR 1529 and familiar with asbestos abatement and asbestos-related work. The CAC can design asbestos abatement projects, prepare reports, work plans and specifications.

Certified Industrial Hygienist (CIH):

An industrial hygienist certified in Comprehensive Practice by the American Board of Industrial Hygiene.

Certified Site Surveillance Technician (CSST):

An asbestos competent person registered in accordance with 8 CCR 1529 that monitors the asbestos abatement activities of others, provides asbestos air monitoring services for area and personal samples, and performs building surveys and contract administration at the direction of a Certified Asbestos Consultant.

Competent Person:

Means one who is capable of identifying existing asbestos hazards in the workplace and who has the authority to take prompt corrective measures to eliminate them.

Consultant:

Means the person, persons, and/or company contracted by the Owner to provide third party oversight of the project described in these specifications. The Consultant shall have no business relationship with the Contractor.

Contractor:

Means the person, persons, and/or company contracted by the Owner to provide the services specified herein.

Decontamination Enclosure:

A decontamination system consisting of a clean room, a shower room, and an equipment room separated from each other and from the regulated area by airlocks. This system is used for all workers to enter and exit the regulated area and may also serve as equipment and waste pass out on small jobs.

Encapsulation:

The application of a bridging or penetrating liquid material to asbestos containing materials to control the release of asbestos fibers into the air. The bridging liquid material creates a membrane over the surface and the penetrating liquid material seeps through the surface and binds all components together.

Enclosure:

The construction of an airtight, impermeable barrier around asbestos containing material to control the release of asbestos fibers into the air.

EPA: U. S. Environmental Protection Agency

Excursion Limit (EL) :

OSHA exposure limit which is 1.0 fiber per cubic centimeter of air as averaged over a sampling period of thirty (30) minutes.

Friable Asbestos-containing Material:

Any material containing more than one percent asbestos as determined using the method specified in appendix E, subpart E 40 CFR part 763, Section 1, Polarized Light Microscopy, that, when dry, can be crumbled, pulverized or reduced to powder by hand pressure.

Glovebag Technique:

A method with limited applications for removing small amounts of friable asbestos-containing material from ducts, short piping runs, valves, joints, elbows, and other nonplanar surfaces in a non-contained (plasticized) regulated area. The glovebag is constructed and installed in such a

manner that it surrounds the object or material to be removed and contains all asbestos fibers released during the process.

HEPA Filter:

A high efficiency particulate air filter capable of removing particles 0.3 microns in diameter with 99.97% efficiency.

HEPA Vacuum:

A vacuum system equipped with HEPA filtration.

NESHAP:

National Emission Standards for Hazardous Air Pollutants

Non-Friable Asbestos-containing Material:

Any material containing more than one percent asbestos as determined using the method specified in appendix E, subpart E 40 CFR part 763, Section 1, Polarized Light Microscopy, that, when dry, cannot be crumbled, pulverized or reduced to powder by hand pressure.

OSHA:

The Federal Occupational Safety and Health Administration; may also be referenced instead of Cal/DOSH or Cal/OSHA equivalent regulations.

Owner:

Means the owner of the properties in which the activities described in these specifications are to be performed for. The Owner will also be the employer of the personnel working in the affected building.

(designated) Owner Representative:

Means the person, persons, or company who monitors the work specified in this document with the Owner's interests as a priority. Compliance with these specifications will be monitored by the Owner's Representative. The Consultant and the Owner's Representative will be the same unless otherwise specified.

Permissible Exposure Limits (PELs):

No personnel associated with asbestos abatement work shall be exposed to an airborne concentration of asbestos in excess of the following limits, as determined by the method prescribed in Appendix A to OSHA 29 CFR 1926.1101, or by an equivalent method:

PEL - OSHA Permissible Exposure Limit which is 0.1 fiber per cubic centimeter of air as an eight (8)-hour time-weighted average.

Excursion Limit (EL) - OSHA exposure limit which is 1.0 fiber per cubic centimeter of air as averaged over a sampling period of thirty (30) minutes.

Regulated Area:

An area identified by specific boundaries where airborne concentrations of asbestos exceed, or can reasonably be expected to exceed, the PEL and/or Excursion Limit. The regulated area may take the form of a temporary negative-pressure enclosure, or an area specifically identified and segregated in any manner that minimizes the number of employees exposed to asbestos.

South Coast Air Quality Management District (SCAQMD):

The SCAQMD is the local enforcement and notification agency within Orange, and populated portions of Los Angeles, San Bernardino and Riverside Counties in the State of California.

Surfactant:

A chemical wetting agent added to water to improve penetration.

Visible Emissions:

Any emissions containing particulate asbestos material that is visually detectable without the aid of instruments. This does not include condensed uncombined water vapor.

Wet Cleaning:

The process of eliminating asbestos contamination from building surfaces and objects by using cloths, mops, or other cleaning utensils which have been dampened with water and afterwards thoroughly decontaminated or disposed of as asbestos contaminated waste.

## 1.05 SUBMITTALS AND NOTICES

A. No later than 10 business days prior to commencement of work, Contractor shall submit electronic format or PDF files to the Owner Representative and/or Consultant documentation that includes, without limitation, the following:

1. Current copies of licenses and registrations as required by Article 1.03, Qualifications.

2. Copies of written notification to the following regulatory agencies:

   a. Cal/DOSH
   b. SCAQMD
   c. City of Corona (if applicable)

3. Current proof of insurance coverage required by Article 1.10 Insurance Requirements (include proof of insurance for subcontractors).

4. Current proof that required permits, site location and arrangements for transport and disposal of asbestos materials have been made.

5. Current proof of legal right to use patented equipment or processes.

6. Current Manufacturer's certification that HEPA vacuums, differential pressure air filtration devices and other local exhaust ventilation equipment conform to ANSI Z9.2-79 and have been permitted by the SCAQMD.

7. Current documentation showing that Contractor's employees, including foreman, supervisor, and any other company personnel or agents who may be exposed to airborne asbestos fibers or who may be responsible for any aspects of asbestos abatement activities, have received training as required by 29 CFR 1926.1101 and 8 CCR 1529.

8. Current documentation from Physician (signed by an M.D.) showing that all employees or agents who may be exposed to airborne asbestos fibers, and/or lead dust, in excess of background levels have received medical monitoring to determine whether they are physically capable of working while wearing the respirator required without suffering adverse health effects. The Contractor must be aware of and provide information to the examining physician about unusual conditions in the workplace environment (e.g. high temperatures, humidity, chemical contaminants) that may impact on the employee's ability to perform work activities.

9. Current documentation of respirator fit-testing for all Contractor employees and agents who must enter the work area. This fit-testing shall be conducted annually and in accordance with procedures as required by 29 CFR 1910.134 and 8 CCR 5144.

10. An emergency preparedness plan as required by Article 1.07 - Emergency Planning.

11. Master schedule, showing phasing, number of shifts, time for air clearances, tear down and manpower loading to be utilized for the duration of the project.

12. A site-specific work plan based on scope of work. Include a diagram showing containment set-up, decontamination unit(s), locations of negative air machines and exhaust placement.

13. The name, address and telephone number of the transporter and disposal facility must be provided to the Owner.

B. During abatement activities, Contractor shall submit to the Owner Representative and/or Consultant documentation that includes, without limitation, the following:

1. Copies of the work area entry/exit log book. Log book must record name, affiliation, time in, and time out for each entry into the work area.

2. Copies of logs documenting filter changes on respirators, HEPA vacuums, differential pressure air filtration devices, water filtration device, and other engineering controls.

3. Copies of Safety Data Sheets (SDS) for solvents, encapsulants, wetting agents, replacement materials, and other substances brought by Contractor to the Project Site. SDSs shall be available the first day that subject materials/substances are present on the project site.

4. Results of all required Cal/DOSH compliance air monitoring. Results shall be available prior to the start of the following shift and within 24 to 48 hours of completion of the last shift.

5. Copies of all accident/incident reports where injury or damage has occurred on or to the Owner's property.

6. Copies of daily work logs indicating location(s) worked, type of materials removed, quantity of materials removed and number of personnel conducting the aforementioned activities.

7. Copies of all transport manifests, trip tickets and disposal receipts for all asbestos and lead removed from the work area shall be provided. Copies shall be emailed to the following individual(s):

Ms. Jacquelyn Roberts
Construction Director – Facilities Division
Corona-Norco Unified School District
2820 Clark Avenue
Norco, California 92860
Jacquelyn.Roberts@cnusd.k12.ca.us

8. Referenced documents within this section shall also be provided to the Environmental Consultants. These documents will be utilized in the generation of a Close out Report at the conclusion of the abatement activities.

## 1.06 SITE SECURITY

A. Contractor shall be responsible for the security of the regulated area(s) during abatement operations in order to protect work efforts and Owner equipment. Contractor will also be responsible for the security of all their equipment and materials on the job site.

B. The regulated area shall be restricted to only authorized, trained, and protected personnel. These may include the Contractor's employees, employees of subcontractors, State representatives, and any other designated individuals. A list of authorized personnel shall be established prior to job start and posted in the clean room of the decontamination facility. A log book shall be maintained in the clean room area of the decontamination system. Anyone who enters the regulated area must record name, affiliation, time in, and time out for each entry.

C. Contractor shall assure any unauthorized individual entering the regulated area is decontaminated (if required), evict them, and notify the Owner Representative of the actions taken and the identity of the unauthorized individual.

D. Access to the regulated area shall be through a single decontamination system. All other means of access (doors, windows, hallways, etc.) shall be blocked or locked so as to prevent entry to or exit from the regulated area. The only exceptions to this rule are the waste pass-out air lock which shall be sealed except during the removal of containerized asbestos waste from the regulated area, and emergency exits in case of fire or accident. Emergency exits shall not be locked from the inside. However, they shall be sealed with polyethylene sheeting and tape until needed.

## 1.07 EMERGENCY PLANNING

A. Emergency procedures shall be in written form and prominently posted in the clean change area and equipment room of the worker decontamination area. Everyone prior to entering the regulated area must read and sign these procedures to acknowledge receipt and understanding of work site layout, location of emergency exits and emergency procedures.

B. Contractor employees shall be trained in evacuation procedures in the event of workplace emergencies under the following conditions:

1. For non-life-threatening situations, employees injured or otherwise incapacitated shall decontaminate following normal procedures with assistance from fellow workers, if necessary, before exiting the workplace to obtain proper medical treatment.

2. For life-threatening injury or illness, worker decontamination shall take least priority; after measures to stabilize the injured worker, remove the worker from the workplace and secure proper medical treatment.

C. Telephone numbers of all emergency response personnel shall be prominently posted in the clean change area and equipment room along with the location of the nearest telephone.

D. Exit routes should be clearly identified in the containment.

E. Procedures to prevent and treat heat stress must be posted in the clean room area. Workers shall be provided easy access to drinking water outside of the regulated area(s) and encouraged to drink frequently.

### 1.08 MEETINGS

A. Refer to Division 1 and CNUSD and/or General Contractor Subcontractor Agreements.

### 1.09 DELIVERY, STORAGE, AND HANDLING

A. Refer to Division 1 and CNUSD and/or General Contractor Subcontractor Agreements.

### 1.10 INSURANCE REQUIREMENTS

A. Refer to Division 1 and CNUSD and/or General Contractor insurance requirements.

### 1.11 BONDING REQUIREMENTS

A. Refer to Division 1 and CNUSD and/or General Contractor Subcontractor Agreements.

### 1.12 PROJECT SCHEDULE

A. Project Start Date: Refer to CNUSD and/or General Contractor's Instructions to Bidders and Published Project Schedule. Multiple notices to regulatory agencies and mobilizations will be required, as the project is phased.

## PART 2 - PRODUCTS

### 2.01 MATERIALS

A. Polyethylene sheeting for all uses shall be a minimum of six (6) mil thickness. Widths will be selected to minimize the frequency of joints. All plastic, spray-on strippable coatings and structural materials shall be UL-certified as fire-retardant or non-combustible.

B. Deliver all materials in the original packages, containers, or bundles bearing the name of the manufacturer and brand name (where applicable).

C. Polyethylene sheeting utilized for decontamination enclosure shall be opaque white or black in color and 6-mil in thickness.

D. Disposal bags shall be of six (6) mil polyethylene, preprinted with labels as required by Cal/DOSH Requirement 8 CCR 1529 (k) (8) (C).

E. Metal disposal bins shall be used for the storage of asbestos-containing waste materials. Bins shall be lined in plastic sheeting affixed with spray glue and tape at walls, floor and ceiling of the bin. As

an alternate, disposal drums for transporting disposal bags may be used. Drums shall be metal, 55-gallon DOT A1A (DOT 17H) with locking ring tops and will meet the requirements of 49 CFR 172 – 178. Stick-on labels as per EPA and 8 CCR 1529 (k) (8) requirements shall be provided for the disposal drums.

F. If utilized, mastic removal solvents shall not be or create a RCRA waste and shall be of the low odor variety.

G. Surfactant (Wetting Agent) for Amended Water:

1. For use with materials containing asbestos identified as "Amosite", shall be a 50/50 mixture of polyoxymethylene ether and polyoxyethylene ester, mixed in a proportion of one (1) fluid ounce to five (5) gallons of water or as specified by manufacturer.

2. For all materials containing asbestos identified as "chrysotile", "crocidolite", or types other than Amosite, shall consist of soapy water mixed in a proportion of two (2) fluid ounces of liquid soap to five (5) gallons of water.

3. Where regulated area temperature may cause freezing of the amended water solution, the addition of ethylene glycol in amounts sufficient to prevent freezing is permitted.

H. Encapsulating Material:

1. Bridging type encapsulant (for sealing masonry and concrete walls, barrier surfaces during cleanup phase and asbestos containing surfaces to remain in place) shall be capable of being applied with airless spray equipment, able to withstand light impact or abrasion without releasing fibers, and be water insoluble when cured.

2. Penetrating type encapsulant (for sealing scratch coat plaster, wood grounds and wood blocking which have been in contact with asbestos containing material and also exposed ends of pipe insulation) shall not be noxious or toxic to applicator or subsequent occupants, shall have high flame retardance and low toxic fume and smoke emission ratings, and shall have some permeability to water vapor to prevent condensation accumulation.

3. Encapsulants shall be applied using airless spray equipment or hand pressurized sprayer.

## 2.02 EQUIPMENT

A. Negative Pressure Ventilation Units (Use as applicable):

1. A sufficient quantity of negative pressure ventilation units equipped with HEPA filtration and operated in accordance with ANSI and EPA guidance documents. They shall be utilized so as to provide one workplace air change every 15 minutes.

To calculate total air flow requirement:

$$\text{Total } Ft^3/\text{Min.} = \frac{\text{Volume of Regulated area (in } Ft^3)}{15 \text{ Min.}}$$

To calculate the number of units needed for the abatement:

$$\text{Number of Units Needed} = \frac{\text{Total Ft}^3\text{/Min.}}{0.75(\text{Capacity of Unit in Ft}^3\text{/Min.})}$$

2. The air filtering equipment shall be capable of filtering asbestos fibers at 0.3 um at 99.97 percent efficiency. Pre-filters, which protect the final filter by removing the larger particles, are required to prolong the operating life of the HEPA filter. Two stages of pre-filtration are required. The first-stage pre-filter shall be a low efficiency type (e.g., for particles 10 um and larger). The second-stage (or intermediate) filter shall have a medium efficiency (e.g., effective for particles down to 5 um). Pre-filters and intermediate filters shall be installed either on or in the intake grid of the unit and held in place with special housings or clamps.

3. The exhaust air for the air filtering devices used to maintain negative pressure in the contained regulated area(s) shall be directed outdoors to an area where unprotected personnel are not present.

4. The regulated area shall be maintained at a negative pressure of -0.02 inches of water (head). The ventilation shall operate on a 24-hour basis throughout the abatement process until final clearance has been approved.

B. Air Purifying Respirators: Respirator bodies shall be of half face or full-face type with removable cartridges. Single use, disposable or quarter face respirators shall not be used. Full face respirators shall be equipped with a nose cup or other anti-fogging devices as would be appropriate for use in air temperatures less than 32 degrees F. Filter cartridges shall, at a minimum, be HEPA type filters certified by NIOSH under 30 CFR Part 11 or with filters certified for particulates under 42 CFR Part 84 (e.g., P100).

C. Full body disposable protective clothing, including head, body and foot coverings consisting of material impenetrable by asbestos fibers (Tyvek® or equivalent) shall be provided to all workers and authorized visitors in sizes adequate to accommodate movement without tearing.

1. Full body disposable protective clothing as described above shall be provided to authorized visitors in sizes adequate to accommodate movement without tearing on request.

D. Additional safety equipment (as necessary), such as hard hats, eye protection, safety shoes, disposable gloves meeting the requirements of current ANSI Standards shall be provided to all workers and authorized visitors. Nonskid footwear shall be provided to all abatement workers. Disposable clothing shall be adequately sealed to the footwear and gloves to prevent body contamination.

E. Provide sufficient supply of disposable mops, rags and sponges for work area decontamination. Rubber dust pans and rubber squeegees shall be provided for cleanup.

F. Provide scaffolds, ladders, lifts and hand tools such as scrapers, wire cutters, brushes, utility knives, and wire saws, as the work requires. Brushes utilized for removing loose asbestos containing material shall have nylon or fiber bristles, not metal.

1. Contractor must have in place a valid Fall Protection Plan, in compliance with Cal/DOSH requirements, to be reviewed and approved by the designated Owner Representative.

G. Sprayers shall have pumps capable of providing 14-15 pounds per square inch (psi) at the nozzle tip at a flow rate of 2 gallons per minute for spraying amended water.

H. A sufficient supply of HEPA filtered vacuum systems shall be available during cleanup.

I. Airless spray equipment with an adjustable low-pressure nozzle shall be provided for spraying wetting agents and encapsulants. Nozzle tip size and pressure adjustment shall conform to encapsulant manufacturer's written recommendations.

J. Heavy duty power cables for temporary electrical service and a portable electric generator for maintaining negative pressure in the work area in case of power failure.

K. Warning Signs and Labels: As required OSHA Regulation 29 CFR 1926.1101(k) and 8 CCR 1529 (k).

L. Other equipment the Contractor deems necessary for asbestos abatement work shall be submitted to the designated Owner Representative and/or Consultant for approval prior to their use.

## PART 3 EXECUTION

### 3.01 GENERAL COMPLIANCE MEASURES

A. Mandatory Protection Conditions: Contractor's employees shall wear appropriate respiratory protection and protective clothing under the following conditions:

1. During installation or implementation of engineering work practices and control measures.

2. During maintenance and repair activities for which control measures, hereinafter described, are not feasible.

3. Whenever the control measures are not yet sufficient to reduce exposure below the Permissible Exposure Limits (TWA and/or Excursion Limits).

4. Whenever emergency conditions exist.

B. Control Measures: The Contractor shall use one or any combination of the following control methods to achieve compliance with the "Permissible Exposure Limits" defined herein:

1. Local exhaust ventilation equipped with HEPA filter dust collection systems (as referenced in 2.02.).

2. General dilution ventilation equipped with HEPA filtration systems on both exhaust and return air (as referenced in 2.02.).

3. Vacuum cleaners equipped with HEPA filters (as referenced in 2.02.).

4. Enclosure or isolation of processes producing airborne asbestos fibers and dust.

5. Use of wet methods, wetting agents or removal encapsulants to control employee exposures during their performance of asbestos abatement activities. Where wet methods

would result in equipment damage or a safety hazard, dry removal is allowed with written approval from Cal/DOSH, SCAQMD and the designated Owner Representative.

6. Prompt clean up and disposal of wastes contaminated with asbestos in leak-tight containers.

C. Supplement to Control Measures: Whenever the control measures described above are not sufficient to reduce the employee exposure to or below the "Permissible Exposure Limits" (TWA and/or Excursion Limit), the Contractor shall continue to use the control measures to maintain the employee exposure to the lowest levels attainable and supplement them with the use of appropriate respiratory protection and protective clothing.

D. Negative-Pressure Enclosure: A negative-pressure enclosure shall be employed whenever feasible, prior to commencing removal, demolition and renovation operations involving asbestos containing materials. The negative air machines should be ducted outdoors, especially if the space outside the containment is occupied. This will prevent the indoor spread of contamination if the negative air machine malfunctions or other chemicals are used in the containment (not recommended) which would not be filtered by the machines. If the area of work outside is dusty, then a square hole may be cut in the containment and fitted with a pleated residential air filter (Minimum Efficiency Reporting Value [MERV] 11 or better) to filter the make-up air. The entry to the containment should be well sealed to prevent the entry of unfiltered outside air.

E. Types of Respiratory Protection: The following Table represents the minimum respiratory protection required for given airborne concentrations of asbestos:

| Airborne Concentration of Asbestos | Required Respirator |
|---|---|
| Not in excess of 1 f/cc (10x PEL) | Half-mask air purifying respirator equipped with high-efficiency filters |
| Not in excess of 5 f/cc (50x PEL) | Full face piece air purifying respirator equipped with high-efficiency filters (quantitatively fit tested) |
| Not in excess of 10 f/cc (100x PEL) | 1. Any powered air purifying respirator equipped with high efficiency filters or<br>2. Any supplied air respirator operated in continuous flow mode. |
| Not in excess of 100 f/cc (1000x PEL) | Full face piece supplied air respirator operated in pressure demand mode. |
| Greater than 100 f/cc (1,000x PEL) or an unknown concentration | Full face piece supplied air respirator operated in pressure demand mode equipped with an auxiliary positive pressure self-contained breathing apparatus. |

NOTE: Respirators assigned for higher environmental concentrations may be used at lower concentrations. A high-efficiency filter means a filter that is at least 99.97 percent efficient against mono-dispersed particles of 0.3 micrometers in diameter or larger.

F. For all OSHA Class I work, a Powered Air Purifying Respirator (PAPR) or Supplied Air Respirator (SAR) shall be used until initial air monitoring determines that the OSHA PEL and EL will not be exceeded, at which point a half mask or full face respirator may be used for the remainder of the project.

G. Employee Rotation: The Contractor shall not use employee rotation as a means of compliance with Permissible Exposure Limits (TWA and/or Excursion Limit).

H. Supervision: The Contractor shall have a bilingual (usually English and Spanish) licensed project supervisor on site at all times that only supervises the project and is responsible to assure contract and regulatory compliance. He/she shall have a mobile phone available 24 hours per day with the number provided to the designated Owner Representative(s) identified during the pre-construction meeting.

I. A minimum of two workers will be present at the job site during any work activities.

***THE FOLLOWING SECTIONS ARE PROVIDED AS A PRECAUTIONARY MEASURE AS THE FOLLOWING MATERIALS ARE CONSIDERED PACMS:***

- ***Grout and mortar to ceramic tiles***
- ***Interior lining of the swimming pool.***

**3.02 Class I Asbestos Removal Work**

The following procedure shall be utilized for all removal of Class I friable materials. The following procedures are not applicable to the project as presently conceived and are provided as a contingency.

A. Contractor shall coordinate all items of work with the Project Environmental Consultant.

B. Contractor shall shut down and lock out all heating, cooling, and air conditioning system (HVAC) components that are in supply or pass through the work area. The HVAC system (such as an air intake) shall remain off during the project.

C. In the event that active power is still in the area, the Contractor shall shut down and lock out electric power to all Work Areas. Contractor shall then provide temporary power and lighting sources, ensure safe installation of temporary power sources and equipment by compliance with all applicable electrical code requirements and Cal/OSHA requirements for temporary electrical systems. Protect each circuit with a Ground Fault Circuit Interrupter (GFCI) of proper size located in the temporary panel.

D. Install worker decontamination unit described in Article 3.07 or as agreed upon with Project Environmental Consultant.

E. Post warning signs meeting the specifications of 8 CCR 1529, 8 CCR 5208, and 29 CFR 1926.1101, at any location and approaches to a location where airborne concentration of asbestos fibers may exceed ambient background levels. Signs shall be posted at a distance sufficiently far enough away from a work area to permit a person to read the sign and take necessary protective measures to avoid exposure.

F. Asbestos Handlers shall don personnel protective equipment as required in Article 2.02, Equipment.

G. Pre-clean all vertical and horizontal surfaces within the work area using HEPA-filtered vacuum and/or wet cleaning techniques, as appropriate. Contractor shall not use any methods that would raise dust, such as dry sweeping or vacuuming with equipment not equipped with HEPA filters, and shall not disturb asbestos-containing materials during the pre-cleaning phase.

H. Seal off all windows, doorways, entrances, drains, ducts, grills, grates, diffusers and any other openings between the Work Area and uncontaminated areas outside of the Work Area with two layers six-mil fire retardant polyethylene sheeting and tape.

I. Cover all immovable items (plumbing, etc.) and/or construct walls in the Work Area with fire retardant polyethylene sheeting and seal with duct tape, as appropriate. Walls that will be demolished do not necessarily need protection (check with Project Environmental Consultant). Walls shall be decontaminated using HEPA vacuums and wet cleaning techniques. Walls with mortar joints (e.g., tile) are considered porous. Openings through these walls, including louvers in Mechanical Rooms, must be sealed by critical barriers.

1. Walls shall be covered with two layers six-mil fire-retardant polyethylene sheeting (sealed airtight with duct tape).
2. Plastic shall be sized to minimize seams. Seams shall be staggered and separated by a distance of at least six feet.
3. Wall sheeting shall overlap floor sheeting by at least 12 inches beyond the wall/floor joint to provide a better seal against water damage and for negative pressure.
4. Wall sheeting shall be secured adequately to prevent it from falling away from the walls. This will require additional support/attachment when Negative Pressure Ventilation Systems are utilized.
5. Where necessary for structural support, plywood sheeting and/or 2x4 lumber shall be utilized to ensure the structural integrity of the containment and critical barriers.
6. Fire exits shall be clearly labeled as required by Regulations.

J. Install the minimum number of 2' x 3' clear view windows that will provide visual access to ALL areas of each enclosure.

K. Install and initiate operation of negative pressure air filtration differential as required in Article 2.02, Equipment. Negative pressure differential shall be at a minimum of -0.02" of water column at all times during asbestos removal operations.

L. Install and maintain a manometer equipped with a strip chart recorder. Manometer shall be capable of detecting at least -0.02" of water column.

N. The Contractor shall carry out all asbestos removal activities in a manner that will minimize pulverizing, breaking or creation of dust. Only manual removal methods will be performed under this Specification. Mechanical removal methods MUST be submitted in writing and approved by Owner Representatives under Alternative Procedures (see Article 3.19).

O. Keep the ACMs being removed wet throughout removal operations by the use of an airless sprayer. In the event that visible dust is generated during the abatement process, mist the air within the containment periodically with water or an amended water solution with an airless sprayer to reduce airborne asbestos fiber concentrations.

P. Once all removal activities have been completed, clean-up of the work areas shall be conducted in accordance with Article 3.10, Clean-Up Procedures.

Q. Encapsulate entire work area with a penetrating and/or lock-down type encapsulant following acceptance of clean-up activities.

R. Dispose of all asbestos containing/contaminated waste in accordance with Article 3.13, Disposal Procedures.

### 3.03 Class II Non-Friable Asbestos Removal Work (Interior)

The following procedure shall be utilized for all manual (non-mechanical) removal of non-friable/Class II ACMs. The following procedures are not applicable to the project as presently conceived and are provided as a contingency.

A. Contractor shall coordinate all items of work with the Project Environmental Consultant.

B. Contractor shall shut down and lock out all heating, cooling, and air conditioning systems (HVAC) components that are in supply or pass through the work area. In the event that there is any impact to the HVAC system (such as an air intake), the HVAC system shall remain off during the project.

C. Contractor shall shut down and lock out electric power to all Work Areas. Contractor shall provide temporary power and lighting sources, insure safe installation of temporary power sources and equipment by compliance with all applicable electrical code requirements and Cal/OSHA requirements for temporary electrical systems. Protect each circuit with a Ground Fault Circuit Interrupter (GFCI) of proper size located in the temporary panel.

D. Install worker decontamination unit described in Article 3.07 or as agreed upon with Project Environmental Consultant.

E. Post warning signs meeting the specifications of 8 CCR 1529, 8 CCR 5208, and 29 CFR 1926.1101, at any location and approaches to a location where airborne concentration of asbestos fibers may exceed ambient background levels. Signs shall be posted at a distance sufficiently far enough away from a work area to permit a person to read the sign and take necessary protective measures to avoid exposure.

F. Asbestos Handlers shall don personnel protective equipment as required in Article 2.02 - Equipment.

G. Pre-clean all vertical and horizontal surfaces within the work area using HEPA-filtered vacuum and/or wet cleaning techniques, as appropriate. Contractor shall not use any methods that would raise dust, such as dry sweeping or vacuuming with equipment not equipped with HEPA filters and shall not disturb asbestos-containing materials during the pre-cleaning phase.

H. Seal off all windows, doorways, elevator openings, corridor entrances, drains, ducts, grills, grates, diffusers, skylights and any other openings between the Work Area and uncontaminated areas outside of the Work Area with two layers six-mil fire retardant polyethylene sheeting and tape.

I. Cover floors in the area of ceiling or upper wall removal areas with fire retardant polyethylene sheeting (do not cover floors where flooring finishes, such as floor tile and/or mastic, are to be removed).

1. A single layer of six-mil (minimum) sheeting. Additional layers of sheeting shall be utilized as a drop cloth to aid in cleanup of bulk materials.

2. Containment plastic shall be sized to minimize seams. If the floor area necessitates seams, those on successive layers of sheeting shall be staggered to reduce the potential for water to penetrate to the flooring material. A distance of at least 6 feet between seams is sufficient. Do not locate any seams at wall/floor joints.

3. Plastic floor sheeting shall extend at least 12" up the side walls of the Work Area.

4. Sheeting shall be installed in a fashion so as to prevent slippage between successive layers of material.

J. Cover all immovable items (plumbing, etc.) and/or construct walls in the Work Area with fire retardant polyethylene sheeting. Walls that will be demolished do not necessarily need protection (check with Project Environmental Consultant). Walls shall be decontaminated using HEPA vacuums and wet cleaning techniques. Walls with mortar joints (e.g., tile) are considered porous. Openings through these walls must be sealed by critical barriers.

1. Walls shall be covered with two layers six-mil fire-retardant polyethylene sheeting (sealed airtight with duct tape).

2. Plastic shall be sized to minimize seams. Seams shall be staggered and separated by a distance of at least six feet.

3. Wall sheeting shall overlap floor sheeting by at least 12 inches beyond the wall/floor joint to provide a better seal against water damage and for negative pressure.

4. Wall sheeting shall be secured adequately to prevent it from falling away from the walls. This will require additional support/attachment when Negative Pressure Ventilation Systems area utilized.

5. Fire exits shall be clearly labeled as required by Regulations.

K. Install the minimum number of 2' x 3' clear view windows that will provide visual access to ALL areas of the enclosure.

L. Install and initiate operation of negative pressure air filtration differential as required in Article 2.02 - Equipment. Negative pressure differential shall be at a minimum of -0.02" of water column at all times during asbestos removal operations.

M. Install and maintain a manometer equipped with a strip chart recorder. Manometer shall be capable of detecting at least -0.02" of water column.

N. The Contractor shall carry out all asbestos removal activities in a manner that will minimize pulverizing, breaking or creation of dust. Only manual removal methods will be performed under this Specification. Mechanical removal methods MUST be submitted in writing and approved by Owner Representatives under Alternative Procedures (see Article 3.19).

O. Keep the ACMs being removed wet throughout removal operations. In the event that visible dust is generated during the abatement process, also mist the air within containment periodically to reduce airborne asbestos fiber concentrations.

P. Once all removal activities have been completed, clean-up of the work areas shall be conducted in accordance with Article 3.14 - Clean-Up Procedures.

Q. Encapsulate entire work area with a penetrating and/or lock-down type encapsulant following acceptance of clean-up activities.

R. Dispose of all asbestos containing/contaminated waste; debris shall be kept wet at all times and be bagged while wet in accordance with Article 3.17 - Disposal Procedures.

### 3.04 Class II Non-Friable Asbestos Removal Work (Exterior)

The following procedure shall be utilized for all removal of non-friable/Class II exterior materials. The following procedures are not applicable to the project as presently conceived and are provided as a contingency.

A. Contractor shall coordinate all items of work with the Project Environmental Consultant.

B. Contractor shall shut down and lock out all heating, cooling, and air conditioning system (HVAC) components that are in supply or pass through the work area. In the event that there is any impact to the HVAC system (such as a fresh air intake), the HVAC system shall remain off during the project.

C. Contractor shall shut down and lock out electric power to all Work Areas. Contractor shall provide temporary power and lighting sources, ensure safe installation of temporary power sources and equipment by compliance with all applicable electrical code requirements and Cal/OSHA requirements for temporary electrical systems. Protect each circuit with a Ground Fault Circuit Interrupter (GFCI) of proper size located in the temporary panel.

D. Contractor shall establish a regulated area around the perimeter of the designated work area. At a minimum, the regulated area shall consist of barrier tape and delineators at sufficient distance from the work area so that debris does not fall outside of the regulated area based on current conditions at the site. The barrier tape may contain appropriate wording such as “DANGER ASBESTOS”. Appropriate signage and a worker decontamination unit shall be included, and part of the regulated area (see below).

E. Install worker decontamination unit described in Article 3.07 or as agreed upon with Project Environmental Consultant. Installation shall occur as close to the designated work area as possible, with polyethylene sheeting laid down between the decontamination unit and the work area access.

F. Post warning signs meeting the specifications of 8 CCR 1529, 8 CCR 5208, and 29 CFR 1926.1101, at any location and approaches to a location where airborne concentration of asbestos fibers may exceed ambient background levels. Signs shall be posted at a distance sufficiently far enough away from a work area to permit a person to read the sign and take necessary protective measures to avoid exposure.

G. Asbestos Handlers shall don personnel protective equipment as required in Article 2.02. Double-suiting is recommended if decontamination unit is not on roof.

H. Pre-clean all vertical and horizontal surfaces within the work area using HEPA-filtered vacuum and/or wet cleaning techniques, as appropriate. This may include HVAC duct work and equipment only; there is no need to pre-clean surfaces to be removed. Contractor shall not use methods that would raise dust, such as dry sweeping or vacuuming with equipment not equipped with HEPA filters and shall not disturb asbestos-containing materials during the pre-cleaning phase.

H. Seal off all windows, doorways, drains, ducts, and any other openings between the Work Area and uncontaminated areas outside of the Work Area with six-mil fire retardant polyethylene sheeting and tape. Walls with mortar joints (e.g., tile) are considered porous. Openings through these walls must be sealed by critical barriers.

I. Place 6-mil plastic sheeting at the base of building underneath the work area and fasten to the building wall with tape to catch debris that may be generated during abatement or be dislodged from windows or fire doors during abatement. At a minimum, plastic sheeting shall be placed 10 feet out from the work area but must remain inside the regulated area. The regulated area and plastic sheeting may need to be extended based on site conditions at the time of abatement.

J. The Contractor shall carry out all asbestos removal activities in a manner that will minimize pulverizing, breaking or creation of dust. Only manual removal methods will be performed under this Specification. Mechanical removal methods MUST be submitted in writing and approved by Owner Representatives under Alternative Procedures (see Article 3.19).

K. Keep the ACMs being removed wet throughout removal operations. In the event that visible dust is generated during the abatement process, also mist the air within regulated area periodically to reduce airborne asbestos fiber concentrations.

Bags of asbestos waste shall not be dropped or thrown, but carefully lowered to the ground surface. If chutes are utilized, the chutes shall be completely sealed in poly sheeting.

L. Once all removal activities have been completed, clean-up of the work areas shall be conducted in accordance with Article 3.14 - Clean-Up Procedures.

M. Encapsulate entire work area with a penetrating and/or lock-down type encapsulant following acceptance of clean-up activities.

N. Dispose of all asbestos containing/contaminated waste in accordance with Article 3.17 - Disposal Procedures.

### 3.05 Class II Asbestos Removal Work - ACCM

The following procedure shall be utilized for the removal of Class II ACCMs. The following procedures are not applicable to the project as presently conceived and are provided as a contingency.

A. Contractor shall coordinate all items of work with the Project Environmental Consultant.

B. Contractor shall shut down and lock out all heating, cooling, and air conditioning systems (HVAC) components that are in supply or pass through the work area. In the event that there is any impact to the HVAC system (such as an air intake), the HVAC system shall remain off during the project.

C. Contractor shall shut down and lock out electric power to all Work Areas. Contractor shall provide temporary power and lighting sources, insure safe installation of temporary power sources and equipment by compliance with all applicable electrical code requirements and Cal/OSHA requirements for temporary electrical systems. Protect each circuit with a Ground Fault Circuit Interrupter (GFCI) of proper size located in the temporary panel.

D. Install worker decontamination unit described in Article 3.07 or as agreed upon with Project Environmental Consultant.

E. Post warning signs meeting the specifications of 8 CCR 1529, 8 CCR 5208, and 29 CFR 1926.1101, at any location and approaches to a location where airborne concentration of asbestos fibers may exceed ambient background levels. Signs shall be posted at a distance sufficiently far enough away from a work area to permit a person to read the sign and take necessary protective measures to avoid exposure.

F. Asbestos Handlers shall don personnel protective equipment as required in Article 2.02.

G. Pre-clean all vertical and horizontal surfaces within the work area using HEPA-filtered vacuum and/or wet cleaning techniques, as appropriate. Contractor shall not use any methods that would raise dust, such as dry sweeping or vacuuming with equipment not equipped with HEPA filters and shall not disturb asbestos-containing materials during the pre-cleaning phase.

H. Seal off all windows, doorways, elevator openings, corridor entrances, drains, ducts, grills, grates, diffusers, skylights and any other openings between the Work Area and uncontaminated areas outside of the Work Area with two layers six-mil fire retardant polyethylene sheeting and tape.

I. Cover floors in the area of ceiling or wall removal areas with fire retardant polyethylene sheeting (do not cover floors where flooring finishes, such as floor tile and/or mastic, are to be removed).

1. A single layer of six-mil (minimum) sheeting. Additional layers of sheeting shall be utilized as a drop cloth to aid in cleanup of bulk materials.

2. Containment plastic shall be sized to minimize seams. If the floor area necessitates seams, those on successive layers of sheeting shall be staggered to reduce the potential for water to penetrate to the flooring material. A distance of at least 6 feet between seams is sufficient. Do not locate any seams at wall/floor joints.

3. Plastic floor sheeting shall extend at least 12" up the side walls of the Work Area.

4. Sheeting shall be installed in a fashion so as to prevent slippage between successive layers of material.

J. Cover all immovable items (plumbing, etc.) and/or construct walls in the Work Area with fire retardant polyethylene sheeting. Walls that will be demolished do not necessarily need protection (check with Project Environmental Consultant). Walls shall be decontaminated using HEPA vacuums and wet cleaning techniques. Walls with mortar joints (e.g., tile) are considered porous. Openings through these walls must be sealed by critical barriers.

1. Walls shall be covered with two layers six-mil fire-retardant polyethylene sheeting (sealed airtight with duct tape).

2. Plastic shall be sized to minimize seams. Seams shall be staggered and separated by a distance of at least six feet.

3. Wall sheeting shall overlap floor sheeting by at least 12 inches beyond the wall/floor joint to provide a better seal against water damage and for negative pressure.

4. Wall sheeting shall be secured adequately to prevent it from falling away from the walls. This will require additional support/attachment when Negative Pressure Ventilation Systems area utilized.

5. Fire exits shall be clearly labeled as required by Regulations.

K. Install the maximum number of 2' x 3' clear view windows that will provide visual access to ALL areas of the enclosure.

L. Install and initiate operation of negative pressure air filtration differential as required in Article 2.02 - Equipment. Negative pressure differential shall be at a minimum of -0.02" of water column at all times during asbestos removal operations.

M. Install and maintain a manometer equipped with a strip chart recorder. Manometer shall be capable of detecting at least -0.02" of water column.

N. The Contractor shall carry out all asbestos removal activities in a manner that will minimize pulverizing, breaking or creation of dust. Only manual removal methods will be performed under this Specification. Mechanical removal methods MUST be submitted in writing and approved by Owner Representatives under Alternative Procedures (see Article 3.19).

O. Keep the ACCMs being removed wet throughout removal operations. In the event that visible dust is generated during the abatement process, also mist the air within containment periodically to reduce airborne asbestos fiber concentrations.

P. Once all removal activities have been completed, clean-up of the work areas shall be conducted in accordance with Article 3.14 - Clean-Up Procedures.

Q. Encapsulate entire work area with a penetrating and/or lock-down type encapsulant following acceptance of clean-up activities.

R. Dispose of all asbestos containing/contaminated waste; debris shall be kept wet at all times and be bagged while wet in accordance with Article 3.17 - Disposal Procedures.

### 3.06 Abatement with the Use of Mini Containments

The following procedures are not applicable to the project as presently conceived and are provided as a contingency.

A. The mini containment shall be equipped with a HEPA filter equipped vacuum or a HEPA ventilation system to maintain negative pressure within the mini containment. Negative pressure must be maintained during the removal process.

B. All exposed ACMs within the mini containment must be encapsulated.

C. Tools and equipment used in the mini containment must be wet wiped until no visible residue remains. Wet wiped tools and equipment must be passed through the mini containment door in a sealed, leakproof container. The leakproof container must be opened only inside another mini containment or decontamination unit.

D. After the removal of the ACMs, encapsulation or enclosure is complete, the interior of the mini containment must be cleaned using HEPA filter equipped vacuuming, wet wiped, or both; and apply an encapsulant to the interior of the mini containment.

E. Before the mini containment is removed, a visual inspection of the interior and abated surfaces must be performed. If debris or material is still present, the interior of the mini containment must be recleaned.

F. Once the final visual inspection is completed, the mini containment can be removed by sealing the door and collapsing the containment using a HEPA filter equipped vacuum or tearing down the mini containment.

### 3.07 DECONTAMINATION ENCLOSURE SYSTEM

A. Worker decontamination enclosure systems shall be provided at all locations where workers will enter or exit the work area. At a minimum, one, three-stage system at a single location is preferred. Each work area where negative pressure enclosure is the selected method of engineering controls shall have a worker decontamination unit.

In the event that a three-stage decontamination unit includes a shower, the shower must be connected to a water source and have a water filtration unit attached and functioning. As an alternate, a cleansing station may be used. See Item E below.

B. Worker decontamination enclosure systems constructed at the Project site shall utilize six-mil, fire-retardant polyethylene sheeting, or other approved materials for privacy.

C. Personnel Decontamination Units shall not be located inside the work area(s) unless specifically authorized by the Project Environmental Consultant.

D. Alternate methods of providing Decontamination facilities may be submitted to the Project Environmental Consultant for approval. Do not proceed with any such method(s) without the written authorization from designated Owner Representative and/or Consultant.

E. The worker decontamination enclosure system shall consist of at least a cleansing station in accordance with the requirements of 8 CCR 1527 and 8 CCR 1529, equipped with adequate water, towels and cleansing agents to accommodate the entire crew and visitors.

F. All polyethylene barriers and decontamination enclosure systems shall be inspected at least twice daily by the Contractor's competent person prior to the start of each day's abatement activities and following the completion of the day's abatement activities.

G. Damage and defects in the enclosure system are to be repaired immediately upon discovery.

## 3.08 WORKPLACE ENTRY AND EXIT PROCEDURES

A. All workers and authorized personnel shall enter the regulated area through the decontamination enclosure system.

B. All personnel shall proceed first to the clean room, remove all street clothes, and appropriately don respiratory protection (as approved for the job conditions) and disposable coveralls, head covering and foot covering. Hard hats, eye protection and gloves shall also be utilized, if required. Clean respirators and protective clothing shall be provided and utilized by each person for each separate entry into the regulated area.

C. Personnel wearing designated personal protective equipment shall proceed from the clean room through the decontamination enclosure system to the regulated area.

D. Before leaving the regulated area, all personnel shall remove gross contamination from the outside of respirators and protective clothing by brushing or wet wiping procedures. Small HEPA vacuums with brush attachments may be utilized for this purpose. Each person shall clean bottoms of protective footwear in the walk-off pan just prior to entering the equipment room/pre-shower chamber.

E. Personnel shall proceed to equipment room where they remove all protective equipment except respirators. Deposit disposable clothing into appropriately labeled containers for disposal.

F. Reusable, contaminated footwear shall be stored in the equipment room when not in use in the regulated area. Upon completion of abatement, it shall be disposed of as asbestos contaminated waste. Rubber boots may be decontaminated at the completion of the abatement for reuse.

G. Workers will decontaminate all respirators and non-porous items with wet towels, rags provided in the equipment room. Workers will remove filter cartridges and dispose of them in the bag or receptacle provided in the equipment room. Workers will also wet wipe and decontaminate themselves in this location. Contaminated towels and suits shall be placed in bags/receptacles before proceeding to the clean room.

H. Workers shall not eat, drink, smoke, and chew gum or tobacco in the regulated area. To eat, drink or smoke, workers shall follow the procedure described above, and then dress in street clothes before entering the non-regulated areas of the building.

I. Emergency exits shall be established and clearly marked with duct tape arrows or other effective designations to permit easy location from anywhere within the regulated area. They shall be secured to prevent access from uncontaminated areas, but still permit emergency exiting. These exits shall be properly sealed with polyethylene sheeting which can be cut to permit egress, if

needed. These exits may be through the decontamination enclosure, the waste pass-out airlock, and/or other alternative exits that are satisfactory to fire officials.

## 3.09 WASTE CONTAINER PASS-OUT PROCEDURE

A. Asbestos contaminated waste that has been containerized shall be transported out of the regulated area through the waste container pass-out airlock (or through the decontamination enclosure if a separate airlock has not been constructed). Wherever possible, this shall be located where there is direct access from the regulated area to the outside of the building and the waste storage/disposal container. The waste container pass-out airlock shall be constructed in similar fashion to the worker decontamination enclosure system using similar materials and airlock and curtain doorway designs. This airlock system shall not be used to enter or exit the regulated area. The airlock system shall be tightly sealed when not in use.

B. The inside team wearing protective clothing and respirators appropriate for the contaminated regulated area shall clean the entire surface, including bottoms, of properly labeled bags, using HEPA vacuums and wet wiping techniques and transport them into the waste container pass-out airlock where they will be placed into another properly labeled bag. No worker from the inside team shall further exit the regulated area through this airlock.

C. Workers from outside the regulated area wearing appropriately assigned respirators shall enter the airlock from outside the regulated area solely for waste removal from the work area. No worker from the outside team shall further enter the regulated area through this airlock.

D. The exit from this airlock shall be secured to prevent unauthorized entry when not in use.

E. Asbestos waste bags and wrapped waste shall contain or have affixed a waste generator ID label or sticker.

## 3.106 WATER COLLECTION AND DISPOSAL

A. All water collected from pre-cleaning or wetting activities during abatement shall be collected and disposed of as ACM waste. No water shall be disposed of in sanitary sewers or storm drains.

## 3.11 WET REMOVAL PROCEDURE

A. All friable asbestos waste shall be disposed of as Hazardous, Friable Asbestos Waste.

All non-friable asbestos waste shall be disposed of as Non-Hazardous, Non-Friable Asbestos Waste.

B. Wet all asbestos containing material with an amended water solution using equipment capable of providing a fine spray mist, in order to reduce airborne fiber concentrations when the material is disturbed. Saturate the material to the substrate. Keep all removed material wet to prevent fiber release until it can be containerized for disposal.

C. Saturated asbestos-containing materials shall be removed in manageable sections, but as large as practical. Removed material should be containerized before moving to a new location for continuance of work. Surrounding areas shall be periodically sprayed and maintained in a wet condition until visible material is cleaned up.

D. Bags shall be considered full when half their capacity has been filled. They should be securely sealed to prevent accidental opening and leakage by tying tops of bags in an overhand knot or by taping in gooseneck fashion. Do not seal bags with wire or cord.

E. Large components removed intact may be wrapped in two (2) layers of six (6) mil polyethylene sheeting secured with tape for transport to the approved disposal site, and labeled.

F. Asbestos containing waste with sharp edged components (e.g., nails, screws, metal lathe, tin sheeting) shall be placed into drums for disposal in lieu of polyethylene bags. Drums shall be marked to differentiate contents from those drums containing bagged material.

G. After completion of all stripping work, surfaces from which asbestos containing materials have been removed such as plaster base coat or metal deck, etc., the surfaces shall be wet brushed and sponged to remove all visible residues.

## 3.12 AIR MONITORING

A. Area air samples shall be collected by the Environmental Consultant during portions of the abatement (i.e., beginning, middle, and end) with high volume pumps having a capacity of up to 10 liters per minute. These samples shall be of sufficient time and quantity to characterize asbestos emissions inside and outside of containment and on the perimeter of the project. The criteria of acceptability will be $\leq$0.01 f/cc. If the criteria is not met the Contractor will conduct corrective actions, as necessary. This does not include personnel air samples, which will be collected by abatement contractor.

B. Air samples collected by Environmental Consultants will be analyzed by an accredited laboratory accredited, or by a NIOSH equivalent trained microscopist on-site. Results of each analysis shall be submitted to the Owner Representative for the record. Copies of the analysis results shall also be made available to the Owner, Contractor and the Owner's Representative upon request.

## 3.13 WORK STOPPAGE

A. The Owner's Representative has the authority to stop the abatement work under the provisions of the General Conditions of this contract at any time he/she determines either personally or through the services of the air sampling professional that conditions are not in compliance with the specifications and applicable regulations. The stoppage of work shall continue until conditions have been corrected and corrective steps have been taken to the satisfaction of the Owner's Representative. Standby time required to resolve violations shall be at the Contractor's expense.

## 3.14 CLEANUP PROCEDURE

A. Remove and containerize all visible accumulations of asbestos containing material and asbestos contaminated debris utilizing rubber dust pans and rubber squeegees to move material around. Do not use metal shovels to pick up or move accumulated waste. Special care shall be taken to minimize damage to floor containment sheeting, when present.

B. Wet clean all surfaces in the regulated area using rags, mops and sponges as appropriate. (Note: Some HEPA vacuums might not be wet-dry vacuums.)

C. Prior to removing the inner layer of plastic sheeting, the sheeting shall be sprayed with an encapsulant so that any residue remaining will be adhered to the plastic sheeting.

D. Remove the cleaned inner layer of plastic sheeting from walls and floors. Windows, doors, HVAC system vents and all other openings shall remain sealed. The negative pressure ventilation units shall remain in continuous operation. Decontamination enclosure systems shall remain in place and be utilized.

E. Remove all containerized waste from the regulated area and waste container pass-out airlock. Decontaminate all tools and equipment and remove at the appropriate time in the cleaning sequence.

F. The Owner's Representative and the Contractor shall inspect the regulated area for visible residue. If any accumulation of residue is observed, it will be assumed to be asbestos and the cleaning cycle shall be repeated.

## 3.15 CLEARANCE TESTING

Asbestos abatement activities will be cleared by air sampling and analysis by Phased Contrast Microscopy (PCM – NIOSH Method 7400) or by Transmission Electron Microscopy (TEM).

If requested by Owner, final air clearance sampling will be performed in accordance with NIOSH Method 7400 (Phased Contrast Microscopy (PCM)). Decontamination of the work site is complete when each sample analyzed reveals airborne asbestos fiber concentrations are at or below 0.010 f/cc or 70 structures per square millimeter by AHERA TEM.

If these conditions are not met, then the decontamination is incomplete, and the cleaning procedures noted in above shall be repeated. The area shall be re-tested at no additional cost to Owner until satisfactory levels are obtained.

## 3.16 REESTABLISHMENT OF THE WORK AREAS

A. Reestablishment of the work area shall only occur following the completion of clean-up procedures and after clearance air monitoring has been performed and documented to the satisfaction of the Owner Representative or Environmental Consultant.

B. Contractor and Owner Representative or Environmental Consultant shall visually inspect the work area for any remaining visible residue. Evidence of contamination will necessitate additional cleaning and air monitoring requirements at no additional cost to Owner, until approved by Environmental Consultant.

C. Upon approval by Owner Representative or Environmental Consultant, the Contractor shall remove remaining fire-retardant polyethylene sheeting, critical barriers, and decontamination unit.

D. Repair all areas of damage that occurred as a result of abatement activities at no additional cost to Owner, unless other arrangements and written approval have been provided by the Owner.

## 3.17 DISPOSAL PROCEDURES

A. As the work progresses, to prevent exceeding available storage capacity on site, sealed and labeled containers of asbestos-containing waste shall be removed and transported directly to the prearranged disposal location, which must be an authorized site in accordance with regulatory requirements of NESHAP and other local authorities. Use of intermediate storage locations is not an accepted disposal procedure. Mark vehicles used to transport asbestos-containing waste in accordance with Federal, State, and local regulations. All waste containers will be supplied by the Contractor. There shall be no evidence of liquid leakage from the containers at any time.

B. The Contractor shall provide documentation in the form of a transportation and disposal manifest that will provide a chain-of-custody record of all asbestos-containing waste from project site to the disposal site. All asbestos-containing waste generated must be accounted for by these records and copies of all such records shall be delivered to the designated Owner Representative. Shipping papers and/or manifests will be signed by the designated Owner Representative who will be provided copies of all disposal records.

C. As necessary, obtain EPA Hazardous Waste Generator ID number from the Owner.

D. Transportation to the Landfill:

1. Contractor shall provide an enclosed lockable waste container, consisting of a truck, trailer or dumpster, for storage and transportation of waste. The waste container shall be locked while unattended and during transportation of waste. Once bags have been removed from the regulated area, they shall be loaded directly into the waste container for transportation.

2. The waste container shall be free of debris and lined with six (6) mil polyethylene sheeting to prevent contamination from leaking or spilled containers. Floor sheeting shall be installed first and extend up the side walls. Wall sheeting shall be overlapped and taped into place.

3. Drums shall be placed on level surfaces in the waste container and packed tightly together to prevent shifting and tipping. Large components shall be secured to prevent shifting and bags placed on top. Do not throw containers into waste container.

4. Personnel loading asbestos containing waste shall be protected by disposable clothing including head, body and foot protection and at a minimum, half-facepiece, air-purifying, dual cartridge respirators equipped with HEPA filters.

5. Any debris or residue observed on containers or surfaces outside of the regulated area resulting from cleanup or disposal activities shall be immediately cleaned up using HEPA filtered vacuum equipment and/or wet methods.

6. Following the removal of all containerized waste, the truck cargo area shall be decontaminated using HEPA vacuums and wet methods to meet the no visible residue criteria. Polyethylene sheeting shall be removed and discarded along with contaminated cleaning materials and protective clothing in bags or drums at the disposal site.

## 3.18 OSHA PERSONNEL AIR MONITORING

A. Air monitoring required by OSHA is the responsibility of the contractor. The contractor is responsible for providing daily OSHA compliance monitoring as per 29 CFR 1926.1101, 8 CCR 1529 for asbestos.

1. At minimum, Contractor shall conduct representative (25% of crew) breathing zone personal air monitoring of its employees twice each shift (asbestos only) and repeated daily or until a "negative exposure assessment", as derived in accordance with 29 CFR 1926.1101 (f)(2)(iii) and 8 CCR 1529 for asbestos.

2. Monitoring shall be conducted by a qualified air professional experienced and knowledgeable about the methods of air monitoring and in accordance with 29 CFR 1926.1101, 8 CCR 1529.

3. Monitoring results and appropriate laboratory analysis work shall be submitted to Owner and Project Environmental Consultant within 24 hours of when the samples were collected.

## 3.19 ALTERNATIVE PROCEDURES

A. If specified procedures cannot be utilized, a request shall be made in writing to the designated Owner Representative providing details of the problem encountered and recommended alternatives.

B. Alternative procedures shall provide equivalent or greater protection than procedures that are replaced.

C Any alternative procedure must be approved in writing by the Owner Representative prior to the implementation of the procedure.

END OF SECTION

**SECTION 02 83 33**

**REMOVAL AND DISPOSAL OF MATERIALS CONTAINING LEAD**
**Revision 00**

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## PART 1 GENERAL

### 1.01 SUMMARY AND SCOPE

A. Applicable provisions of Division 1 – General Requirements shall govern work under this section.

B. Perform all operations in connection with lead abatement, removal, clean-up and related work as shown on drawings, specific scopes of work, and/or specified herein.

C. Description of Work – This project involves removal and/or stabilization of LBPs; this specification is for removal or stabilization/encapsulation of the following materials:

| Building Component | Paint Color | Lead Conc. ($mg/cm^2$) | Comments |
|---|---|---|---|
| Metal vent pipe | White | 23.6 | There are three (3) metal vent pipes located on the roof of the Aquatic Center building. All 3 pipes are considered LBP. Intact condition at time of survey. |
| Metal tank | Gray | 1.6 | Located in the south-center chemical storage room. Intact condition at time of survey. |

It is the responsibility of the bidders to verify actual quantities of LBPs to be abated and/or stabilized in accordance with the scope of work for the project.

Although other painted surfaces tested did not meet the criteria for LBP, concentrations of lead were detected in these other materials. Title 8 CCR 1532.1 (Cal/DOSH Lead) may require workers that perform either manual demolition or manual scraping or sanding of painted surfaces to undergo an exposure assessment including air monitoring of the breathing zone and be properly trained and protected per the Cal/DOSH lead regulation. Contractor shall be responsible for monitoring of worker exposure to lead during disturbance of painted and ceramic surfaces.

D. Special Precautions: Coordinate with the CNUSD Representative for the shutdown and isolation of all electrical circuits and air movement systems within the regulated area.

E. Special Circumstances: Emergency response may be necessary during non-working hours requiring Contractor personnel to be on-site within 3 hours of notification (e.g., due to weather, vandalism, burglary, etc.).

F. Restoration: Not Applicable.

G. Related work specified elsewhere (enclosed):

| Section Title | Section Number |
|---|---|
| Removal and Disposal of Asbestos Materials | 02 82 13 |

### 1.02 REFERENCES

D. General Reference:

All work under this contract shall be done in accordance with all applicable Federal, State, and local regulations, standards and codes governing asbestos abatement and any other trade work done

in conjunction with the abatement. The most recent edition of any relevant regulation in force at the time of bid opening shall be in effect. Where conflict among the laws, rules, regulations, or with these specifications exists, the most stringent requirements shall be utilized.

B. Specific References:

Occupational Safety and Health Administration (OSHA) Title 29 Code of Federal Regulations (CFR):

1910.134 – Respiratory Protection.
1926.59 - Hazard Communication Standard; Construction Industry
1926.62 – Lead; Construction Industry

Environmental Protection Agency (EPA) Title 40 Code of Federal Regulations (CFR) Part 745 -- Lead-Based Paint Poisoning Prevention in Certain Residential Structures.

California Division of Occupational Safety and Health (Cal/DOSH):

8 CCR 5144 – Respiratory Protection Standard
8 CCR 1532.1 – Lead
22 CCR Division 4.5, Environmental Health Standards for the Management of Hazardous Waste

Housing and Urban Development (HUD) Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing.

## 1.03 QUALIFICATIONS

A. The prospective Contractor shall submit to Owner Representative the data hereinafter requested within ten (10) business days after Bid Opening.

B. The Contractor shall, if requested:

1. Demonstrate prior experience on lead abatement projects of similar nature and scope of that being bid, through the submission of letters of reference from building owners including the name, address, and telephone numbers of the contact persons who are specifically familiar with the referenced projects. At least three previous users of this service shall be submitted. Include descriptions of projects and records of all air monitoring data that was generated during the projects.

2. Submit a description of all major Lead Abatement Equipment owned by the prospective Contractor which is available for use on this project such as respiratory protection equipment, HEPA vacuum equipment dedicated to lead abatement, negative air pressure equipment dedicated to lead abatement, spray equipment for amended water and other coatings, equipment used for shower facilities in decontamination enclosure system.

C. Submit a list of names, work responsibilities and evidence of certification for all employees that will be assigned to this project including:

1. All removal and disturbance of LBPs and lead-containing materials shall be performed by a state-licensed contractor, using California Department of Public Health (CDPH) certified workers with at least one CDPH-certified Supervisor. All removal and disturbance of lead-containing materials (not meeting the definition of lead-based) as defined in 8 CCR 1532.1, shall be performed by a state-licensed contractor, using lead-trained workers with

certification of training meeting the requirements of 8 CCR 1532.1. Abatement contractor's workforce shall be supervised by experienced persons trained, knowledgeable and qualified in the techniques of lead abatement, handling and disposal

D. The Contractor must be licensed by the California State Contractors License Board for activities necessary to complete the projects described in this specification.

## 1.04 DEFINITIONS

ACGIH:
American Conference of Governmental Industrial Hygienists

AIHA: American Industrial Hygiene Association

Air Monitoring:
The process of measuring lead concentration of a known volume of air collected during a specific period of time shall conform to the requirements of OSHA Standard 29 CFR 1926.62 or 8 CCR 1532.1.

Air Sampling Professional:
The Professional contracted or employed by Owner to supervise and conduct air monitoring and analysis schemes. This individual shall not be affiliated in any way other than through this contact with the Contractor performing the abatement work.

ANSI: American National Standards Institute

ASTM:
American Society for Testing and Materials (now ASTM International)

Authorized Visitor:
The Building Owner (and designated representatives) and any representative of a regulatory agency having jurisdiction over the project.

California Department of Public Health (CDPH):
Certification agency for lead abatement workers, supervisors, inspector/assessors, project monitors and sampling technicians. Lead workers and supervisors must hold current certifications with this agency. CDPH is also the enforcement agency for lead abatement in child-occupied structures.

California Division of Occupational Safety and Health (Cal/DOSH):
The Occupational Safety and Health Enforcement Section aka Cal DOSH or Cal/OSHA which is a part of the California Division of Industrial Relations.

Certified Industrial Hygienist (CIH):
An industrial hygienist certified in Comprehensive Practice by the American Board of Industrial Hygiene.

Competent Person:
Means one who is capable of identifying existing lead hazards in the workplace and who has the authority to take prompt corrective measures to eliminate them.

Consultant:

Means the person, persons, and/or company contracted by the Owner to provide third party oversight of the project described in these specifications. The Consultant shall have no business relationship with the Contractor.

Contractor:

Means the person, persons, and/or company contracted by the Owner to provide the services specified herein.

Decontamination Enclosure:

A decontamination system consisting of a clean room, a shower room, and an equipment room separated from each other and from the regulated area by airlocks. This system is used for all workers to enter and exit the regulated area and may also serve as equipment and waste pass out on small jobs.

Encapsulation:

The application of a bridging or penetrating liquid material to asbestos containing materials to control the release of lead dust into the air. The bridging liquid material creates a membrane over the surface and the penetrating liquid material seeps through the surface and binds all components together.

Enclosure:

The construction of an airtight, impermeable, permanent barrier around asbestos containing material to control the release of lead dust into the air.

EPA: U. S. Environmental Protection Agency

HEPA Filter:

A high efficiency particulate air filter capable of removing particles 0.3 microns in diameter with 99.97% efficiency.

HEPA Vacuum:

A vacuum system equipped with HEPA filtration.

Lead-Based Paint:

Paint or other surface coatings that contain lead equal to or in excess of 1.0 milligrams per square centimeter or more than 5,000 parts per million.

Lead Containing Material (LCM):

Material containing lead of any type and in any amount greater than the detection limit of the analytical method.

Lead Containing Waste Material:

Lead containing material or lead contaminated materials requiring disposal in an EPA approved landfill.

OSHA:

The Occupational Safety and Health Administration; may also be referenced instead of Cal/DOSH or Cal/OSHA equivalent regulations.

Owner:

Means the owner of the properties in which the activities described in these specifications are to be performed for. The Owner will also be the employer of the personnel working in the affected building.

(designated) Owner Representative:

Means the person, persons, or company who monitors the work specified in this document with the Owner's interests as a priority. Compliance with these specifications will be monitored by the Owner's Representative. The Consultant and the Owner's Representative will be the same unless otherwise specified.

Permissible Exposure Limits (PELs):

No personnel associated with lead abatement work shall be exposed to an airborne concentration of lead in excess of the following limits, as determined by the method prescribed in OSHA 29 CFR 1926.62, and 8 CCR 1532.1 or by an equivalent method:

PEL. is 50 micrograms per cubic meter (μg/$M^3$) of air as an eight (8) hour time-weighted average (TWA).

Action Level is 30 μg/$M^3$ as an eight (8) - hour TWA.

Regulated Area:

An area identified by specific boundaries where airborne concentrations of asbestos exceed, or can reasonably be expected to exceed, the PEL and/or Excursion Limit. The regulated area may take the form of a temporary negative-pressure enclosure, or an area specifically identified and segregated in any manner that minimizes the number of employees exposed to lead dust.

Soluble Threshold Limit Concentration (STLC):

Laboratory test to be conducted on waste to determine if it meets the definition of hazardous waste.

South Coast Air Quality Management District (SCAQMD):

The SCAQMD is the local enforcement and notification agency within Orange, and populated portions of Los Angeles, San Bernardino and Riverside Counties in the State of California.

Surfactant:

A chemical wetting agent added to water to improve penetration.

Toxicity Characteristic Leaching Procedure (TCLP):

Laboratory test to be conducted on waste to determine if it meets the definition of hazardous waste.

Total Threshold Limit Concentration (TTLC):

Laboratory test to be conducted on waste to determine if it meets the definition of hazardous waste.

Visible Emissions:

Any emissions containing particulate material that is visually detectable without the aid of instruments. This does not include condensed uncombined water vapor.

Wet Cleaning:

The process of eliminating asbestos contamination from building surfaces and objects by using cloths, mops, or other cleaning utensils which have been dampened with water and afterwards thoroughly decontaminated or disposed of as lead contaminated waste.

## 1.05 SUBMITTALS AND NOTICES

A. No later than 10 days prior to commencement of work, Contractor shall submit in electronic format or PDF files to the Owner Representative and/or Consultant documentation that includes, without limitation, the following:

1. Current Copies of licenses and registrations required by Article 1.05 Required Licensure (include copies of subcontractor's licenses).

2. Notify the Cal/DOSH at least 24 hours prior to commencement of any lead-related work, per the requirements of 8 CCR 1532.1.

3. Current proof of insurance coverage required by Article 1.10 Insurance Requirements (include proof of insurance for subcontractors).

4. Current proof that required permits, site location and arrangements for transport and disposal of asbestos materials have been made.

5. Current proof of legal right to use patented equipment or processes.

6. Current Manufacturer's certification that HEPA vacuums, differential pressure air filtration devices and other local exhaust ventilation equipment conform to ANSI Z9.2-79 and have been permitted by the SCAQMD.

7. Current documentation showing that Contractor's employees, including foreman, supervisor, and any other company personnel or agents who may be exposed to lead or who may be responsible for any aspects of lead abatement activities, have received training as required by 29 CFR 1926.1101 and 8 CCR 1529.

8. Current documentation from Physician (signed by an M.D.) showing that all employees or agents who may be exposed to lead dust in excess of background levels have received medical monitoring to determine whether they are physically capable of working while wearing the respirator required without suffering adverse health effects. The Contractor must be aware of and provide information to the examining physician about unusual conditions in the workplace environment (e.g. high temperatures, humidity, chemical contaminants) that may impact on the employee's ability to perform work activities.

   Evidence of blood lead level testing of workers assigned to the project as well as medical clearance for the work to be performed and clearance to don respirators including fit testing records.

9. Current documentation of respirator fit-testing for all Contractor employees and agents who must enter the work area. This fit-testing shall be conducted annually and in accordance with procedures as required by 29 CFR 1910.134 and 8 CCR 5144.

14. An emergency preparedness plan as required by Article 1.07 - Emergency Planning.

15. Master schedule, showing phasing, number of shifts, time for air clearances, tear down and manpower loading to be utilized for the duration of the project.

16. A site-specific work plan based on scope of work. Include a diagram showing containment set-up, decontamination unit(s), locations of negative air machines and exhaust placement.

17. The name, address and telephone number of the transporter and disposal facility must be provided to the Owner.

B. During abatement activities, Contractor shall submit to the Owner Representative and/or Consultant documentation that includes, without limitation, the following:

1. Copies of the work area entry/exit log book. Log book must record name, affiliation, time in, and time out for each entry into the work area.

2. Copies of logs documenting filter changes on respirators, HEPA vacuums, differential pressure air filtration devices, water filtration device, and other engineering controls.

3. Copies of Safety Data Sheets (SDS) for solvents, encapsulants, wetting agents, replacement materials, and other substances brought by Contractor to the Project Site. SDSs shall be available the first day that subject materials/substances are present on the project site.

4. Results of all required Cal/DOSH compliance air monitoring. Results shall be available prior to the start of the following shift and within 24 to 48 hours of completion of the last shift.

5. Copies of all accident/incident reports where injury or damage has occurred on or to the Owner's property.

6. Copies of daily work logs indicating location(s) worked, type of materials removed, quantity of materials removed and number of personnel conducting the aforementioned activities.

7. Contractor shall provide unit costs for the preparation of regulated work areas, abatement, waste storage and disposal for lead encountered during abatement and or renovation of the buildings located at the property. Rates for labor of appropriately trained workers, supervisors and management shall be included in the listing of unit rates.

8. Copies of all transport manifests, trip tickets and disposal receipts for all lead waste materials removed from the work area shall be provided. Copies shall be emailed to the following individual(s):

Ms. Jacquelyn Roberts
Construction Director – Facilities Division
Corona-Norco Unified School District
2820 Clark Avenue
Norco, California 92860
Jacquelyn.Roberts@cnusd.k12.ca.us

9. A Close out Report will be generated by the Environmental Consultant at the conclusion of the abatement activities. Documents referenced in the section shall be provided to the Environmental Consultant for inclusion in the Close out Report.

C. For any new lead abatement employee hired, who has not been previously reported, complete data must be submitted, consisting of: experience, certification, assigned job responsibilities, respirator test fitting, physicians determination of employee's ability to work while wearing respirator and evidence of medical monitoring (blood lead).

## 1.06 SITE SECURITY

A. Contractor shall be responsible for the security of the regulated area(s) during abatement operations in order to protect work efforts and Owner equipment. Contractor will also be responsible for the security of all their equipment and materials on the job site.

B. The regulated area shall be restricted to only authorized, trained, and protected personnel. These may include the Contractor's employees, employees of subcontractors, State representatives, and any other designated individuals. A list of authorized personnel shall be established prior to job start and posted in the clean room of the decontamination facility. A log book shall be maintained in the clean room area of the decontamination system. Anyone who enters the regulated area must record name, affiliation, time in, and time out for each entry.

C. Contractor shall assure any unauthorized individual entering the regulated area is decontaminated (if required), evict them, and notify the Owner Representative of the actions taken and the identity of the unauthorized individual.

D. Access to the regulated area shall be through a single decontamination system. All other means of access (doors, windows, hallways, etc.) shall be blocked or locked so as to prevent entry to or exit from the regulated area. The only exceptions to this rule are the waste pass-out air lock which shall be sealed except during the removal of containerized asbestos waste from the regulated area, and emergency exits in case of fire or accident. Emergency exits shall not be locked from the inside. However, they shall be sealed with polyethylene sheeting and tape until needed.

## 1.07 EMERGENCY PLANNING

A. Emergency procedures shall be in written form and prominently posted in the clean change area and equipment room of the worker decontamination area. Everyone prior to entering the regulated area must read and sign these procedures to acknowledge receipt and understanding of work site layout, location of emergency exits and emergency procedures.

B. Contractor employees shall be trained in evacuation procedures in the event of workplace emergencies under the following conditions:

1. For non-life-threatening situations, employees injured or otherwise incapacitated shall decontaminate following normal procedures with assistance from fellow workers, if necessary, before exiting the workplace to obtain proper medical treatment.

2. For life-threatening injury or illness, worker decontamination shall take least priority; after measures to stabilize the injured worker, remove the worker from the workplace and secure proper medical treatment.

C. Telephone numbers of all emergency response personnel shall be prominently posted in the clean change area and equipment room along with the location of the nearest telephone.

D. Exit routes should be clearly identified in the containment.

E. Procedures to prevent and treat heat stress must be posted in the clean room area. Workers shall be provided easy access to drinking water outside of the regulated area(s) and encouraged to drink frequently.

## 1.08 MEETINGS

A. Refer to Division 1 and CNUSD and/or General Contractor Subcontractor Agreements.

## 1.09 DELIVERY, STORAGE, AND HANDLING

A. Refer to Division 1 and CNUSD and/or General Contractor Subcontractor Agreements.

## 1.10 INSURANCE REQUIREMENTS

A. Refer to Division 1 and CNUSD and General Contractor insurance requirements.

## 1.11 BONDING REQUIREMENTS

A. Refer to Division 1 and CNUSD and General Contractor Subcontractor Agreements.

## 1.12 PROJECT SCHEDULE

A. Project Start Date: Refer to CNUSD or General Contractor's Instructions to Bidders and Published Project Schedule. Multiple notices to regulatory agencies and mobilizations will be required, as the project is phased.

# PART 2 PRODUCTS

## 2.01 MATERIALS

A. Polyethylene sheeting for all uses shall be a minimum of six (6) mil thickness. Widths will be selected to minimize the frequency of joints. All plastic, spray-on strippable coatings and structural materials shall be UL-certified as fire-retardant or non-combustible.

B. Deliver all materials in the original packages, containers, or bundles bearing the name of the manufacturer and brand name (where applicable).

C. Polyethylene sheeting utilized for decontamination enclosure shall be opaque white or black in color and 6-mil in thickness.

D. Disposal bags shall be of six (6) mil polyethylene, clear bags.

E. Metal disposal bins shall be used for the storage of asbestos-containing waste materials. Bins shall be lined in plastic sheeting affixed with spray glue and tape at walls, floor and ceiling of the bin. As an alternate, disposal drums for transporting disposal bags may be used. Drums shall be metal, 55-gallon DOT A1A (DOT 17H) with locking ring tops and will meet the requirements of 49 CFR 172 – 178. Stick-on labels as per EPA and 8 CCR 1529 (k) (8) requirements shall be provided for the disposal drums.

F. Surfactant (Wetting Agent) for Amended Water:

1. For wetting all materials containing lead, it shall consist of soapy water mixed in a proportion of two (2) fluid ounces of liquid soap to five (5) gallons of water.

2. Where regulated area temperature may cause freezing of the amended water solution, the addition of ethylene glycol in amounts sufficient to prevent freezing is permitted.

G. Encapsulating Material: Bridging type encapsulant (for sealing masonry and concrete walls, barrier surfaces during cleanup phase and lead containing surfaces to remain in place) shall be capable of being applied with airless spray equipment, able to withstand light impact or abrasion without releasing fibers, and be water insoluble when cured, and must retain sufficient integrity after six (6) years to allow recoating.

H. Durable exterior coating over stabilized LBP: The coating to be used will be designated by Owner Representative.

I. All caustics shall be properly labeled and containerized in lead-tight containers.

The following procedures and equipment may not be applicable to the lead abatement required for the particular project but are included for completeness. The removal/abatement of lead-containing ceramic tiles, as necessary, would comply with Section M below.

J. Chemical Stripping Removers (**Alternative**) - Chemical removers shall contain no methylene chloride products. Chemical removers shall be compatible with and not harmful to the substrate to which they are applied. Chemical removers used on masonry surfaces shall contain anti-stain formulation that inhibits discoloration of stone, granite, brick and other masonry construction. Chemical removers used on interior surfaces shall not raise or discolor the surface being abated.

K. Chemical Stripping Agent Neutralizer (**Alternative**) - Chemical stripping agent neutralizers may be used on exterior surfaces only. Neutralizers shall be compatible with and not harmful to the substrate that they are applied to. Neutralizers shall be compatible with the stripping agent that has been applied to the surface substrate.

L. Paint Blasting Materials (**Alternative**) – Blasting materials shall not create respirable crystalline silica dust. The blasting debris will be considered hazardous waste for lead. The building must be encased/enclosed in a manner that does not allow visible dust from the building exterior during blasting.

M. Component removal (**Alternative**) – Building Components coated with LBP (or lead containing glaze) can be removed from the regulated area, wrapped in 6-mil plastic sheeting, or placed in 6-mil plastic bags. Provision must be made with Owner Representative and Consultant for replacement of the component, as necessary.

## 2.02 EQUIPMENT

A. Negative Pressure Ventilation Units (Use as applicable):

1. A sufficient quantity of negative pressure ventilation units equipped with HEPA filtration and operated in accordance with ANSI and EPA guidance documents. They shall be utilized so as to provide one workplace air change every 15 minutes.

   To calculate total air flow requirement:

$$\text{Total Ft}^3\text{/Min.} = \frac{\text{Volume of Regulated area (in Ft}^3\text{)}}{\text{15 Min.}}$$

To calculate the number of units needed for the abatement:

$$\text{Number of Units Needed} = \frac{\text{Total Ft}^3\text{/Min.}}{0.75(\text{Capacity of Unit in Ft}^3\text{/Min.})}$$

2. The air filtering equipment shall be capable of filtering lead particles at 99.97 percent efficiency. Pre-filters, which protect the final filter by removing the larger particles, are required to prolong the operating life of the HEPA filter. Two stages of pre-filtration are required. The first-stage pre-filter shall be a low efficiency type (e.g., for particles 10 um and larger). The second-stage (or intermediate) filter shall have a medium efficiency (e.g., effective for particles down to 5 um). Pre-filters and intermediate filters shall be installed either on or in the intake grid of the unit and held in place with special housings or clamps.

3. The exhaust air for the air filtering devices used to maintain negative pressure in the contained regulated area(s) shall be directed outdoors to an area where unprotected personnel are not present.

4. The regulated area shall be maintained at a negative pressure of 0.02 inches of water (head). The ventilation shall operate on a 24-hour basis throughout the abatement process until final clearance has been approved.

B. Air Purifying Respirators: Respirator bodies shall be of half face or full-face type with removable cartridges. Single use, disposable or quarter face respirators shall not be used. Full face respirators shall be equipped with a nose cup or other anti-fogging devices as would be appropriate for use in air temperatures less than 32 degrees F. Filter cartridges shall, at a minimum, be HEPA type filters certified by NIOSH under 30 CFR Part 11 or with filters certified for particulates under 42 CFR Part 84 (e.g., P100).

C. Full body disposable protective clothing, including head, body and foot coverings consisting of material impenetrable by asbestos fibers (Tyvek® or equivalent) shall be provided to all workers and authorized visitors in sizes adequate to accommodate movement without tearing.

1. Full body disposable protective clothing as described above shall be provided to authorized visitors in sizes adequate to accommodate movement without tearing on request.

D. Additional safety equipment (as necessary), such as hard hats, eye protection, safety shoes, disposable gloves meeting the requirements of current ANSI Standards shall be provided to all workers and authorized visitors. Nonskid footwear shall be provided to all abatement workers. Disposable clothing shall be adequately sealed to the footwear and gloves to prevent body contamination.

E. Provide sufficient supply of disposable mops, rags and sponges for work area decontamination. Rubber dust pans and rubber squeegees shall be provided for cleanup.

F. Provide scaffolds, ladders, lifts and hand tools such as scrapers, wire cutters, brushes, utility knives, and wire saws, as the work requires. Brushes utilized for removing loose asbestos containing material shall have nylon or fiber bristles, not metal.

1. Contractor must have in place a valid Fall Protection Plan, in compliance with Cal/DOSH requirements, to be reviewed and approved by the Owner Representative.

G. Sprayers shall have pumps capable of providing 14-15 pounds per square inch (psi) at the nozzle tip at a flow rate of 2 gallons per minute for spraying amended water.

H. A sufficient supply of HEPA filtered vacuum systems shall be available during cleanup.

I. Airless spray equipment with an adjustable low-pressure nozzle shall be provided for spraying encapsulants. Nozzle tip size and pressure adjustment shall conform to encapsulant manufacturer's written recommendations.

J. Machine Sanding Equipment - Sanders shall be of the dual action, rotary action, orbital or straight-line system type, fitted with a high efficiency particulate air (HEPA) dust pick-up system. Air compressors utilized to operate this equipment shall be designed to continuously provide 90 to 110 p.s.i. or as recommended by the manufacturer.

K. Heat Blower Gun Equipment - Electrically operated, heat- blower gun shall be a flameless electrical paint softener type. Heat blower shall have electronically controlled temperature settings to allow usage below a temperature of 1,100 degrees Fahrenheit. Heat blower shall be DI type (non-grounded) 120 V, AC application. Heat blower shall be equipped with various nozzles to cover all common applications (cone, fan, glass protector, spoon reflector, etc.).

L. Heavy duty power cables for temporary electrical service and a portable electric generator for maintaining negative pressure in the work area in case of power failure.

M. Warning Signs and Labels: As required OSHA Regulation 29 CFR 1926.629(m) and 8 CCR 1532.1.

N. Other equipment the Contractor deems necessary for lead work shall be submitted to the Owner Representative and/or Consultant for approval prior to their use.

## PART 3 EXECUTION

### 3.01 GENERAL COMPLIANCE MEASURES

A. Mandatory Protection Conditions: Contractor's employees shall wear appropriate respiratory protection and protective clothing under the following conditions:

1. During installation or implementation of engineering work practices and control measures.

2. During maintenance and repair activities for which control measures, hereinafter described, are not feasible.

3. Whenever the control measures are not yet sufficient to reduce exposure below the Permissible Exposure Limits (TWA and/or Excursion Limits).

4. Whenever emergency conditions exist.

B. Control Measures: The Contractor shall use one or any combination of the following control methods to achieve compliance with the "Permissible Exposure Limits" defined herein:

1. Local exhaust ventilation equipped with HEPA filter dust collection systems (ref. 2.02).

2. General dilution ventilation equipped with HEPA filtration systems on both exhaust and return air (ref. 2.02).

3. Vacuum cleaners equipped with HEPA filters (ref. 2.02).

4. Enclosure or isolation of processes producing airborne lead dust.

5. Use of wet methods, wetting agents or removal encapsulants to control employee exposures during their performance of asbestos abatement activities.

6. Prompt clean up and disposal of wastes contaminated with lead in leak-tight containers.

C. Supplement to Control Measures: Whenever the control measures described above are not sufficient to reduce the employee exposure to or below the "Permissible Exposure Limits" (TWA and/or Excursion Limit), the Contractor shall continue to use the control measures to maintain the employee exposure to the lowest levels attainable and supplement them with the use of appropriate respiratory protection and protective clothing.

E. Negative-Pressure Enclosure: A negative-pressure enclosure shall be employed whenever feasible, prior to commencing removal, demolition and renovation operations involving lead containing materials. The negative air machines (ref. 2.02) should be ducted outdoors, especially if the space outside the containment is occupied. This will prevent the indoor spread of contamination if the negative air machine malfunctions or other chemicals are used in the containment (not recommended) which would not be filtered by the machines. If the area of work outside is dusty, then a square hole may be cut in the containment and fitted with a pleated residential air filter (Minimum Efficiency Reporting Value [MERV] 11 or better) to filter the make-up air. The entry to the containment should be well sealed to prevent the entry of unfiltered outside air.

E. Types of Respiratory Protection: The following Table represents the minimum respiratory protection required for given airborne concentrations of lead:

| Airborne Concentration of Lead milligrams per cubic meter ($mg/M^3$) | Required Respirator |
|---|---|
| Not in excess of 0.50 $mg/M^3$ (10x PEL) | Half-mask air purifying respirator equipped with high-efficiency filters. |
| Not in excess of 2.50 $mg/M^3$ (50x PEL) | Full faceplate air purifying respirator equipped with high-efficiency filters. |
| Not in excess of 5.00 $mg/M^3$ (100x PEL) | 1. Any powered air purifying respirator equipped with high efficiency filters.<br>2. Any supplied air respirator operated in continuous flow mode. |
| Not in excess of 50.0 $mg/M^3$ (1000x PEL) | Full face piece supplied air respirator operated in pressure demand mode. |
| Greater than 50.0 $mg/M^3$ (1,000x PEL) or unknown concentration | Full face piece supplied air respirator operated in pressure demand mode equipped with an auxiliary positive pressure self-contained breathing apparatus. |

NOTE: Respirators assigned for higher environmental concentrations may be used at lower concentrations. A high-efficiency filter means a filter that is at least 99.97 percent efficient against mono-dispersed particles of 0.3 micrometers in diameter or larger.

F. Respirator use during initial air monitoring must be selected per the requirements outlined in 29 CFR 1926.62(d)(2) or State equivalent.

## 3.02 LBP AND SURFACE COATING IMPACTS

This section applies to the removal of LBPs and/or the demolition of components coated with LBP.

See Item L below for the use of mini-containments for spot abatement.

A. Post warning signs meeting the specifications of 8 CCR 1532.1 and 29 CFR 1926.62 at any location and approaches to a location where airborne concentrations of lead dust may exceed ambient background levels. Signs shall be posted at a distance sufficiently far enough away from a work area to permit a person to read the sign and take necessary protective measures to avoid exposure. Barrier tape shall be utilized in conjunction with signs for exterior removal activities, to delineate the extent of regulated work areas.

B. Prepare appropriate fall protection systems in accordance with the requirements of Title 8 California Code of Regulations, Sections 1669, 1670, 1724 and anchoring guidance from Title 8 California Code of Regulations, Section 3283 (where applicable).

C. Install worker decontamination unit described in Article 3.05 or as agreed upon with Project Environmental Consultant.

D. Lead-containing material handlers involved in removal procedures shall wear disposable Tyvek suits, including gloves, hood, and footwear. Minimum respiratory protective equipment shall be half-face air-purifying respirators equipped with P100 filters.

1. For exterior lead work, it is recommended that workers wear two (2) disposable Tyvek suits. Upon exiting the work area, the handlers shall HEPA vacuum all visible debris from

the outer suit, dispose of it as lead-contaminated waste, and proceed through the decontamination unit for full decontamination.

E. Isolate work area by installing critical barriers or curtained doorways across all openings where airborne lead dust migration may cause secondary lead contamination (for work where components will be removed relatively intact, such as doors, downspouts, and wood trim, drop cloths will suffice). Establish regulated areas with delineators, barrier tape and lead signage for exterior work areas.

F. Cover floors in each work area with fire retardant polyethylene sheeting (do not cover floors where flooring finishes, such as ceramic flooring, for example, are to be removed).

1. A single layer of six-mil (minimum) sheeting.

2. Containment plastic shall be sized to minimize seams.

3. Where multiple layers of floor poly are utilized, sheeting shall be installed in a fashion so as to prevent slippage between successive layers of material.

G. Cover all immovable items and/or construct walls in the Work Area with fire retardant polyethylene sheeting. Walls that will be demolished do not necessarily need protection (check with Project Environmental Consultant).

1. Walls shall be covered with six-mil fire-retardant polyethylene sheeting (sealed airtight with duct tape).

2. Plastic shall be sized to minimize seams.

3. Wall sheeting shall overlap floor sheeting by at least 12 inches beyond the wall/floor joint to provide a better seal for negative pressure.

4. Wall sheeting shall be secured adequately to prevent it from falling away from the walls. This may require additional support/attachment when Negative Pressure Ventilation Systems area utilized.

5. Fire exits shall be clearly labeled with red tape or equivalent.

H. Where manual demolition is employed for lead removal, periodically mist the work area and materials to be impacted to maintain a wet condition and avoid the creation of airborne dust, which may carry lead.

I. The Contractor shall carry out all impacts to LBPs in a manner that will minimize pulverizing, breaking, abrading, or in any other way impacting lead-containing paints and generating airborne lead-containing dust.

J. Once all removal activities have been completed, clean-up of the work areas shall be conducted in accordance with Article 3.13 – Cleanup Procedure.

K. Dispose of all lead-containing/contaminated waste in accordance with Article 3.15 - Disposal Procedures.

L. In the event small areas of lead require abatement, the following procedures shall be used for the set-up and use of ***Mini Containments***:

1. The mini containment shall be equipped with a HEPA filter equipped vacuum or a HEPA ventilation system to maintain negative pressure within the mini containment. Negative pressure must be maintained during the removal process.
2. All exposed LBPs within the mini containment must be encapsulated.
3. Tools and equipment used in the mini containment must be wet wiped until no visible residue remains. Wet wiped tools and equipment must be passed through the mini containment door in a sealed, leakproof container. The leakproof container must be opened only inside another mini containment or decontamination unit.
4. After the removal of the LBPs, encapsulation or enclosure is complete, the interior of the mini containment must be cleaned using HEPA filter equipped vacuuming, wet wiped, or both; and apply an encapsulant to the interior of the mini containment.
5. Before the mini containment is removed, a visual inspection of the interior and abated surfaces must be performed. If debris or material is still present, the interior of the mini containment must be recleaned.
6. Once the final visual inspection is completed, the mini containment can be removed by sealing the door and collapsing the containment using a HEPA filter equipped vacuum or tearing down the mini containment.

### 3.03 Surface Preparation - LBP Stabilization

Contractor shall be responsible to conduct stabilization as necessary and limit the amount of lead-containing dust generated. Damaged paint (loose, flaking or peeling, etc.) shall be stabilized in accordance with the following:

A. Post warning signs meeting the specifications of 8 CCR 1532.1 and 29 CFR 1926.62 at any location and approaches to a location where airborne concentrations of lead dust may exceed ambient background levels. Signs shall be posted at a distance sufficiently far enough away from a work area to permit a person to read the sign and take necessary protective measures to avoid exposure. Barrier tape shall be utilized in conjunction with signs for exterior removal activities, to delineate the extent of regulated work areas.

B. Prepare appropriate fall protection systems in accordance with the requirements of Title 8 California Code of Regulations, Sections 1669, 1670, 1724 and anchoring guidance from Title 8 California Code of Regulations, Section 3283 (where applicable).

C. Install worker decontamination unit described in Article 3.05 or as agreed upon with Environmental Consultant.

D. Abatement workers involved in stabilization procedures shall wear two disposable Tyvek suits, including gloves, hood and footwear. Minimum respiratory protective equipment shall be half-face air-purifying respirators equipped with P100 filters. Upon exiting the work area the handlers shall HEPA vacuum all visible debris from the outer suit, dispose of it as lead-contaminated waste, and proceed through the decontamination unit for full decontamination.

E. Isolate work area by installing critical barriers where airborne lead dust migration may cause secondary lead contamination (for work where components will be removed relatively intact, such as doors, downspouts, and wood trim, drop cloths will suffice). At a minimum, the work area will be delineated with the use of appropriately labeled barrier tape and signs. Plastic sheeting shall be placed out a minimum of five (5) feet from the component to be removed.

F. Cover adjacent areas, if appropriate, to each work area with fire retardant polyethylene sheeting.

1. A single layer of six-mil (minimum) sheeting.
2. Containment plastic shall be sized to minimize seams.
3. Where multiple layers of floor poly are utilized, sheeting shall be installed in a fashion so as to prevent slippage between successive layers of material.

G. Cover all immovable items and/or construct walls in the Work Area with fire retardant polyethylene sheeting. Walls that will be impacted do not necessarily need protection (check with Project Environmental Consultant).

1. Walls shall be covered with six-mil fire-retardant polyethylene sheeting (sealed airtight with duct tape).
2. Plastic shall be sized to minimize seams.
3. Wall sheeting shall overlap floor sheeting by at least 12 inches beyond the wall/floor joint to provide a better seal for negative pressure.
4. Wall sheeting shall be secured adequately to prevent it from falling away from the walls. This may require additional support/attachment when Negative Pressure Ventilation Systems area utilized.
5. Fire exits shall be clearly labeled with red tape or equivalent.

H. Prior to stabilization of LBP, correct substrate surfaces of defects as necessary. See Articles 3.04 and 3.10.

I. Paint stabilization activities must utilize wet scraping methods. HEPA vacuums shall be used to clean up small debris generated during lead paint stabilization activities. Do not allow dust and debris to accumulate.

J. Where manual demolition is employed for lead removal, periodically mist the work area and materials to be impacted to maintain a wet condition and avoid the creation of airborne dust, which may carry lead.

K. The Contractor shall carry out all impacts to LBPs in a manner that will minimize pulverizing, breaking, abrading, or in any other way impacting lead-containing paints and generating airborne lead-containing dust.

L. Once all removal activities have been completed, clean-up of the work areas shall be conducted in accordance with Article 3.13, Cleanup Procedure.

M. Dispose of all lead-containing/contaminated waste in accordance with Article 3.15, Disposal Procedures.

### 3.04 Repair of LBP Substrates

Contractor shall be responsible to conduct stabilization as necessary and limit the amount of lead-containing dust generated. Damaged paint (loose, flaking or peeling, etc.) shall be stabilized in accordance with the following:

A. Post warning signs meeting the specifications of 8 CCR 1532.1 and 29 CFR 1926.62 at any location and approaches to a location where airborne concentrations of lead dust may exceed ambient background levels. Signs shall be posted at a distance sufficiently far enough away from a work

area to permit a person to read the sign and take necessary protective measures to avoid exposure. Barrier tape shall be utilized in conjunction with signs for exterior removal activities, to delineate the extent of regulated work areas.

B. Prepare appropriate fall protection systems in accordance with the requirements of Title 8 California Code of Regulations, Sections 1669, 1670, 1724 and anchoring guidance from Title 8 California Code of Regulations, Section 3283 (where applicable).

C. Install worker decontamination unit described in Article 3.05 or as agreed upon with Environmental Consultant.

D. Abatement workers involved in the substrate repair procedures shall wear two disposable Tyvek suits, including gloves, hood and footwear. Minimum respiratory protective equipment shall be half-face air-purifying respirators equipped with P100 filters. Upon exiting the work area the handlers shall HEPA vacuum all visible debris from the outer suit, dispose of it as lead-contaminated waste, and proceed through the decontamination unit for full decontamination.

E. Isolate work area by installing critical barriers where airborne lead dust migration may cause secondary lead contamination (for work where components will be removed relatively intact, such as doors, downspouts, and wood trim, drop cloths will suffice). At a minimum, the work area will be delineated with the use of appropriately labeled barrier tape and signs. Plastic sheeting shall be placed out a minimum of five (5) feet from the component to be removed.

F. Cover all immovable items and/or construct walls in the Work Area with fire retardant polyethylene sheeting. Walls that will be impacted do not necessarily need protection (check with Project Environmental Consultant).

1. Walls shall be covered with six-mil fire-retardant polyethylene sheeting (sealed airtight with duct tape).
2. Plastic shall be sized to minimize seams.
3. Wall sheeting shall overlap floor sheeting by at least 12 inches beyond the wall/floor joint to provide a better seal for negative pressure.
4. Wall sheeting shall be secured adequately to prevent it from falling away from the walls. This may require additional support/attachment when Negative Pressure Ventilation Systems area utilized.
5. Fire exits shall be clearly labeled with red tape or equivalent.

G. Mist damaged substrate area with water. Using a utility knife, score paint around area to be removed.

H. Remove damaged paint from area to be patched/repaired utilizing wet scraping methods. Do not allow paint chips, debris or dust to accumulate. HEPA vacuums shall be used to clean up small debris generated during repair activities.

I. Remove damaged section of substrate and place in disposal bag or wrap in poly as appropriate. Dispose of all lead-containing/contaminated waste in accordance with Article 3.15, Disposal Procedures.

J. Prepare area for new patching materials. Coordinate all patching efforts with Painting Contractor and Inspector of Record. All procedures implemented and materials used need to be approved in writing by the IOR and Painting Contractor and be coordinated with applicable Painting Specifications as directed by CNUSD and/or their representative.

K. Where manual demolition is employed for lead removal, periodically mist the work area and materials to be impacted to maintain a wet condition and avoid the creation of airborne dust, which may carry lead.

L. The Contractor shall carry out all impacts to LBPs in a manner that will minimize pulverizing, breaking, abrading, or in any other way impacting lead-containing paints and generating airborne lead-containing dust.

M. Once all substrate repair activities have been completed, clean-up of the work areas shall be conducted in accordance with Article 3.13, Cleanup Procedure.

N. Dispose of all lead-containing/contaminated waste in accordance with Article 3.15, Disposal Procedures.

## 3.05 DECONTAMINATION ENCLOSURE SYSTEM

B. Worker decontamination enclosure systems shall be provided at all locations where workers will enter or exit the work area. At a minimum, one, three-stage system at a single location is preferred. Each work area where negative pressure enclosure is the selected method of engineering controls shall have a worker decontamination unit.

In the event that a three-stage decontamination unit includes a shower, the shower must be connected to a water source and have a water filtration unit attached and functioning. As an alternate, a cleansing station may be used. See Item E below.

B. Worker decontamination enclosure systems constructed at the Project site shall utilize six-mil, fire-retardant polyethylene sheeting, or other approved materials for privacy.

C. Personnel Decontamination Units shall not be located inside the work area(s) unless specifically authorized by the Environmental Consultant.

D. Alternate methods of providing Decontamination facilities may be submitted to the Environmental Consultant for approval. Do not proceed with any such method(s) without the written authorization from Owner Representative and/or Consultant.

E. The worker decontamination enclosure system shall consist of at least a cleansing station in accordance with the requirements of 8 CCR 1527 and 8 CCR 1529, equipped with adequate water, towels and cleansing agents to accommodate the entire crew and visitors.

F. All polyethylene barriers and decontamination enclosure systems shall be inspected at least twice daily by the Contractor's competent person prior to the start of each day's abatement activities and following the completion of the day's abatement activities.

G. Damage and defects in the enclosure system are to be repaired immediately upon discovery.

## 3.06 WORKPLACE ENTRY AND EXIT PROCEDURES

A. All workers and authorized personnel shall enter the regulated area through the decontamination enclosure system.

B. All personnel shall proceed first to the clean room, remove all street clothes, and appropriately don respiratory protection (as approved for the job conditions) and disposable coveralls, head covering and foot covering. Hard hats, eye protection and gloves shall also be utilized, if required. Clean respirators and protective clothing shall be provided and utilized by each person for each separate entry into the regulated area.

C. Personnel wearing designated personal protective equipment shall proceed from the clean room through the decontamination enclosure system to the regulated area.

D. Before leaving the regulated area, all personnel shall remove gross contamination from the outside of respirators and protective clothing by brushing or wet wiping procedures. Small HEPA vacuums with brush attachments may be utilized for this purpose. Each person shall clean bottoms of protective footwear in the walk-off pan just prior to entering the equipment room/pre-shower chamber.

E. Personnel shall proceed to equipment room where they remove all protective equipment except respirators. Deposit disposable clothing into appropriately labeled containers for disposal.

F. Reusable, contaminated footwear shall be stored in the equipment room when not in use in the regulated area. Upon completion of abatement, it shall be disposed of as asbestos contaminated waste. Rubber boots may be decontaminated at the completion of the abatement for reuse.

G. Workers will decontaminate all respirators and non-porous items with wet towels, rags provided in the equipment room. Workers will remove filter cartridges and dispose of them in the bag or receptacle provided in the equipment room. Workers will also wet wipe and decontaminate themselves in this location. Contaminated towels and suits shall be placed in bags/receptacles before proceeding to the clean room.

H. Workers shall not eat, drink, smoke, and chew gum or tobacco in the regulated area. To eat, drink or smoke, workers shall follow the procedure described above, and then dress in street clothes before entering the non-regulated areas of the building.

I. Emergency exits shall be established and clearly marked with duct tape arrows or other effective designations to permit easy location from anywhere within the regulated area. They shall be secured to prevent access from uncontaminated areas, but still permit emergency exiting. These exits shall be properly sealed with polyethylene sheeting which can be cut to permit egress, if needed. These exits may be through the decontamination enclosure, the waste pass-out airlock, and/or other alternative exits that are satisfactory to fire officials.

## 3.07 WASTE CONTAINER PASS-OUT PROCEDURE

A. Lead contaminated waste that has been containerized shall be transported out of the regulated area through the waste container pass-out airlock (or through the decontamination enclosure if a separate airlock has not been constructed). Wherever possible, this shall be located where there is direct access from the regulated area to the outside of the building and the waste storage/disposal container. The waste container pass-out airlock shall be constructed in similar fashion to the worker decontamination enclosure system using similar materials and airlock and curtain doorway designs. This airlock system shall not be used to enter or exit the regulated area. The airlock system shall be tightly sealed when not in use.

B. The inside team wearing protective clothing and respirators appropriate for the contaminated regulated area shall clean the entire surface, including bottoms, of properly labeled bags, using

HEPA vacuums and wet wiping techniques and transport them into the waste container pass-out airlock where they will be placed into another properly labeled bag. No worker from the inside team shall further exit the regulated area through this airlock.

C. Workers from outside the regulated area wearing appropriately assigned respirators shall enter the airlock from outside the regulated area solely for waste removal from the work area. No worker from the outside team shall further enter the regulated area through this airlock.

D. The exit from this airlock shall be secured to prevent unauthorized entry when not in use.

## 3.08 WATER COLLECTION AND DISPOSAL

A. All water resulting from the pre-cleaning operation, excess from the floor of regulated area, decontamination water, and the final cleaning operation shall be collected and placed in a sealed container(s) for disposal as hazardous waste or for waste characterization to determine if it is hazardous waste. No water shall be disposed of in sanitary sewers or storm drains.

## 3.09 WET REMOVAL PROCEDURE

A. Wet all lead containing material with an amended water solution using equipment capable of providing a fine spray mist, in order to reduce airborne fiber concentrations when the material is disturbed. Saturate the material to the substrate. Keep all removed material wet to prevent dust release until it can be containerized for disposal.

B. Saturated lead waste shall be removed in manageable sections, but as large as practical. Removed material should be containerized before moving to a new location for continuance of work. Surrounding areas shall be periodically sprayed and maintained in a wet condition until visible material is cleaned up.

C. Bags shall be considered full when half their capacity has been filled. They should be securely sealed to prevent accidental opening and leakage by tying tops of bags in an overhand knot or by taping in gooseneck fashion. Do not seal bags with wire or cord.

D. Large components removed intact may be wrapped in two (2) layers of six (6) mil polyethylene sheeting secured with tape for transport to the approved disposal site.

E. Lead containing waste with sharp edged components (e.g., nails, screws, metal lathe, tin sheeting) shall be placed into drums for disposal in lieu of polyethylene bags. Drums shall be marked to differentiate contents from those drums containing bagged material.

F. After completion of all stripping work, surfaces from which lead has been removed such as plaster base coat or metal deck, etc., the surfaces shall be wet brushed and sponged to remove all visible residues.

## 3.10 ENCAPSULATION/STABILIZATION PROCEDURES

A. Clean and isolate the regulated area as specified in Subpart entitled "3.02 LBP/Lead-Containing Surface Coating Impacts", hereinbefore.

B. Repair damaged and missing areas of existing materials with non-lead-containing substitutes. Material must adhere adequately to existing surfaces and provide an adequate base for application of encapsulating agents. Filler material shall be applied in accordance with manufacturer's recommended specifications.

C. Feather back rough edges of paint by carefully sanding with HEPA equipped sanders.

D. Spray apply with airless equipment with low nozzle pressure to all surfaces where lead is removed or surfaces containing lead that are to remain in place. Spray must completely encapsulate any remaining lead, permanently locking it in place.

E. Apply a minimum of one (1) coat with coverage in strict accordance with manufacturer's recommendations. Surfaces must be dry and free of dirt, oil and dust.

## 3.11 AIR MONITORING

A. The Consultant (Owner's Representative) shall perform the ambient air sampling. All sample collection procedures and evaluation to determine employee exposure levels (Contractor responsibility) shall conform to the requirements of OSHA Standard 29 CFR 1926.62 or 8 CCR 1532.1. For exterior lead abatement areas, a minimum of two upwind and two downwind ambient air samples (one at each of four sides of the area is acceptable) shall be collected during the disturbance of lead containing materials (e.g., stabilization and coating). For interior lead abatement areas air samples shall be collected outside the perimeter of the regulated area(s), outside the decontamination unit, and outside the waste load-out unit. The samples shall be placed as close as practical to the affected area.

B. All samples collected shall be analyzed on a 24-hour turnaround basis by a laboratory accredited by the California Environmental Laboratory Accreditation Program (CA ELAP) and the American Industrial Hygiene Association Laboratory Accreditation Programs, LLC (AIHA-LAP) under their Environmental Lead Laboratory Accreditation Program (ELLAP). The results of each analysis shall be submitted to the Owner's Representative within two hours of receipt from the lab. Copies of the analysis results shall also be made available to Owner Representative and the Contractor upon request and posted in the clean room or break area on the day of receipt from the lab.

C. Documentation requirements must include the following, as a minimum:

Air Sampling Procedures: Sampling times, sampling locations (with appropriate diagrams), evidence of periodic inspection of sampling equipment, documentation of pre and post calibration of equipment, detailed description of work conditions, description of worker protective devices, and a description of any atypical environmental conditions.

D. Minimum testing required for the project shall consist of the following:

1. Exterior Testing During Exterior Paint Disturbance: Area air samples will be collected at the perimeters of the regulated area.

2. Personal Sampling for OSHA - PEL and Action Level - As required by 29CFR 1926.62 samples shall be within the breathing zone of each worker category (i.e., wetter, receiver, bagger, etc.) 25% of the crew, or one per job category (Contractor responsibility).

E. Daily Personal Air Monitoring (OSHA Compliance):

1. Daily determination of employee exposure during LBP disturbance (e.g., exterior paint stabilization and coating disturbance) shall be made by collecting one or more breathing zone samples that are representative of the 8-hour TWA, full-shift exposure for each employee in each regulated area.

2. Daily testing may be dispensed with if employees are equipped with supplied-air respirators operated in a positive-pressure mode while performing abatement work or sampling indicates that exposures do not exceed the OSHA Action Level.

3. Daily testing may also be dispensed with if the contractor is in possession of a negative exposure assessment performed in accordance with 8 CCR 1532.1 on the same workers for like tasks within the last 12 months.

## 3.12 WORK STOPPAGE

A. The Owner's Representative has the authority to stop the abatement work under the provisions of the General Conditions of this contract at any time he/she determines either personally or through the services of the air sampling professional that conditions are not in compliance with the specifications and applicable regulations. The stoppage of work shall continue until conditions have been corrected and corrective steps have been taken to the satisfaction of the Owner's Representative. Standby time required to resolve violations shall be at the Contractor's expense.

B. When exterior paint is being stabilized or removed any visible debris or dust must not migrate beyond the work area. If wind conditions cause this to occur, then work shall stop until the wind decreases to allow for no further dust/debris migration. Wind speed of over 10 mph may cause this. As such wind conditions expected for the days of work must be considered when planning these activities.

## 3.13 CLEANUP PROCEDURE

A. Remove and containerize all visible accumulations of lead and lead contaminated debris utilizing rubber dust pans and rubber squeegees to move material around. Do not use metal shovels to pick up or move accumulated waste. Special care shall be taken to minimize damage to floor containment sheeting, when present.

B. Wet clean all surfaces in the regulated area using rags, mops and sponges as appropriate. (Note: Some HEPA vacuums might not be wet-dry vacuums.)

C. Prior to removing the inner layer of plastic sheeting, the sheeting shall be sprayed with an encapsulant so that any residue remaining will be adhered to the plastic sheeting.

D. Remove the cleaned inner layer of plastic sheeting from walls and floors. Windows, doors, HVAC system vents and all other openings shall remain sealed. The negative pressure ventilation units shall remain in continuous operation. Decontamination enclosure systems shall remain in place and be utilized.

E. Remove all containerized waste from the regulated area and waste container pass-out airlock. Decontaminate all tools and equipment and remove at the appropriate time in the cleaning sequence.

F. The Owner's Representative and the Contractor shall inspect the regulated area for visible residue. If any accumulation of residue is observed, it will be assumed to be LBP and the cleaning cycle shall be repeated.

## 3.14 CLEARANCE TESTING

A. If requested by Owner Representative only. Either or both interior floor surfaces and exterior soils will be sampled. Clearance soil sampling will be conducted by the Consultant (Owner's Representative) of one area on each side of the building (four samples). Floor wipe samples will be collected from each affected interior space, as necessary.

B. Submit samples to an CA ELAP certified laboratory for analysis.

C. Interpret results by comparing them to the EPA Clearance Standards (40CFR 745.227(e)) or 17 CCR Division 1, Chapter 8 lead hazard standards. The standard for soil is less than 400 parts per million (ppm) (total lead).

D. The floor wipe sampling clearance criteria is less than 10 microgram per square foot (µg/ft$^2$.)

E. The clearance criteria for an interior horizontal surface is less than 100 µg/ft$^2$.

F. The clearance criteria for exterior floor and exterior horizontal surfaces is less than 400 µg/ft$^2$.

F. Should laboratory results indicate that either the soil or floor wipe clearance level is exceeded, the Contractor shall remove additional soil or reclean the affected areas, at no additional cost to the Owner, utilizing the methods specified above. Retesting will then be performed to verify compliance with the mandated levels. The Owner will pay for the initial clearance testing and one re-testing. The cost of any further retesting, necessitated as a result of failure to meet requirements for clearance, shall be borne by the Contractor.

## 3.15 DISPOSAL PROCEDURES

A. Contractor is responsible for characterization of lead waste prior to waste being transported off site. All waste characterization samples must be taken under the supervision of the Project Environmental Consultant. Characterization sample results must be submitted to the Owner and/or Project Environmental Consultant for review prior to waste being transported off site.

B. All lead wastes shall be either disposed of as construction debris (if STLC/TCLP results allow) or lead-containing waste (with attendant RCRA codes, if STLC/TCLP results so require).

C. All hazardous wastes must be disposed of by a certified waste hauler approved by the Owner.

D. Obtain the EPA Hazardous Waste Generator Identification Number and State of California Hazardous Waste Tax Identification Number from the Owner.

E. All hazardous waste manifests, non-hazardous material data forms and bills of lading shall be delivered to the Project Environmental Consultant. Record keeping format shall utilize a chain of custody form which includes the names and addresses of the Generator (Owner), Contractor, Waste Hauler, pickup site, disposal site, the estimated quantity of the asbestos waste and the type of containers used. The form shall be signed by the Generator, Contractor, Waste Hauler and the Disposal Site Operator, as the responsibility for the material changes hands.

## 3.16 PROCEDURES

A. If specified procedures cannot be utilized, a request shall be made in writing to the Owner Representative and Consultant providing details of the problem encountered and recommended alternatives.

B. Alternative procedures shall provide equivalent or greater protection than procedures that are replaced.

C Any alternative procedure must be approved in writing by the Environmental Consultant and the Owner Representative prior to the implementation of the procedure.

END OF SECTION

# Asbestos & Lead-base Paint Abatement Specifications

## Centennial High School Aquatic Center
## 1820 Rimpau Avenue
## Corona, California 92881

**Prepared For:**

**Corona-Norco Unified School District**
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**Norco, California 92860**

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**Converse Project No. 22-16-161-01**

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**SECTION 02 82 13**

**ASBESTOS ABATEMENT**
**Revision 00**

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- .16 Reestablishment of Work Areas
- .17 Disposal Procedures
- .18 OSHA Personal Air Monitoring
- .19 Alternative Procedures

END OF CONTENTS

## PART 1 - GENERAL

### 1.01 SUMMARY AND SCOPE

A. Applicable provisions of Division 01 – General Requirements shall govern work under this section.

B. Perform all operations in connection with asbestos abatement, spot abatement, removal and related work as shown on drawings, specific scopes of work, and/or as specified herein.

C. Description of Work - Removal and Cleanup; This specification is for the removal and/or cleanup of the following presumed asbestos-containing materials (PACMs).

The survey completed by Converse Consultants was a non-destructive survey; therefore, the following suspect materials were not sampled:

- Grout and mortar to ceramic tiles
- Interior lining of the pool.

Therefore, this Specification is being provided in an abundance of caution. If the above materials are not sampled and analyzed for asbestos content, the materials must be abated as if the materials are asbestos-containing materials (ACMs).

**It is the responsibility of the bidders to verify actual quantities of the PACMs to be abated in accordance with the scope of work for the project.**

D. Special Precautions: Coordinate with the CNUSD Representative for the shutdown and isolation of all electrical circuits and air movement systems within the regulated area.

E. Special Circumstances: Emergency response may be necessary during non-working hours requiring Contractor personnel to be on-site within 3 hours of notification (e.g., due to weather, vandalism, burglary, etc.).

F. Restoration: Not Applicable.

G. Related work specified elsewhere (enclosed):

| Section Title | Section Number |
|---|---|
| Removal and Disposal of Material Containing Lead | 02 83 33 |

### 1.02 REFERENCES

A. General Reference:

All work under this contract shall be done in accordance with all applicable Federal, State, and local regulations, standards and codes governing asbestos abatement and any other trade work done in conjunction with the abatement. The most recent edition of any relevant regulation in force at the time of bid opening shall be in effect. Where conflict among the laws, rules, regulations, or with these specifications exists, the most stringent requirements shall be utilized.

B. Specific References:

Occupational Safety and Health Administration (OSHA) Title 29 Code of Federal Regulations (CFR):

1910.134 – Respiratory Protection.
1926.1101 – Asbestos; Construction Industry
1926.59 - Hazard Communication Standard; Construction Industry

Environmental Protection Agency (EPA), Title 40 Code of Federal Regulations (CFR) Part 61 - National Emission Standards for Hazardous Air Pollutants; Asbestos NESHAP Revision; Final Rule as amended July 20, 2004.

California Division of Occupational Safety and Health (Cal/DOSH)

8 CCR 1529 – Asbestos
8 CCR 5144 – Respiratory Protection Standard
8 CCR Article 2.5, Sections 341.6 – 341.14 – Registration-Asbestos-Related Work

South Coast Air Quality Management District (SCAQMD) Rule 1403 – Asbestos Emissions from Demolition/Renovation Activities

## 1.03 QUALIFICATIONS

A. The prospective Contractor shall submit to designated Owner Representative the data hereinafter requested within ten (10) business days after Bid Opening.

B. The Contractor shall, <u>if requested:</u>

1. Demonstrate prior experience on asbestos abatement projects of similar nature and scope of that being bid through the submission of letters of reference from building owners including the name, address, and telephone numbers of the contact persons who are specifically familiar with the referenced projects. At least three previous users of this service shall be submitted. Include descriptions of projects and records of all air monitoring data that was generated during the projects.

2. Submit a description of all major Asbestos Abatement Equipment owned by the prospective Contractor which is available for use on this project such as, but not limited to, respiratory protection equipment, HEPA vacuum equipment, negative air pressure equipment, spray equipment for amended water, and equipment used for shower facilities in decontamination enclosure system.

C. The Contractor shall submit a list of names, work responsibilities and evidence of certification for all employees that will be assigned to this project.

D. Contractor or their subcontractor is required to have appropriate State of California Contractors C-22 license to complete asbestos abatement and asbestos-related work.

E. At least one principal, the firm's "competent person" and any other personnel performing supervisory duties must be in possession of current asbestos training documentation as an Asbestos Abatement Supervisor.

F. Contractor or their subcontractor is required to have appropriately trained workers (32-hour class) with certifications to complete asbestos abatement and/or asbestos-related work.

## 1.04 DEFINITIONS

ACGIH:
American Conference of Governmental Industrial Hygienists

AIHA: American Industrial Hygiene Association

Air Monitoring:
The process of measuring the fiber content of a known volume of air collected during a specific period of time shall conform with Appendix A to OSHA 29 CFR 1926.1101. The procedure normally utilized for asbestos follows the NIOSH Standard Analytical Method 7400 for Asbestos in Air. For clearance air monitoring, electron microscopy methods may be utilized for lower detectability limit and specific fiber identification.

Air Sampling Professional:
The Professional contracted to supervise and conduct air monitoring and analysis schemes. This individual shall not be affiliated in any way other than through this contact with the Contractor performing the abatement work.

ANSI: American National Standards Institute

Asbestos:
Means the asbestiform varieties of chrysotile (serpentine); crocidolite (riebeckite); amosite (cummingtonite-grunerite); tremolite; anthophyllite, and actinolite.

Asbestos-Containing Material (ACM):
Material composed of asbestos of any type and in an amount greater than 1%, either alone or mixed with other fibrous or nonfibrous materials.

Asbestos-Containing Construction Material (ACCM):
California OSHA (Cal/OSHA) defines an ACCM as any substance containing one-tenth of one percent (0.1%) to one percent (1%) asbestos by weight.

Asbestos-Containing Waste Material:
Asbestos containing material or asbestos contaminated debris or objects requiring disposal.

ASTM:
American Society for Testing and Materials (now ASTM International)

Authorized Visitor:
The Building Owner (and designated representatives) and any representative of a regulatory agency having jurisdiction over the project.

California Division of Occupational Safety and Health (Cal/DOSH):
The Occupational Safety and Health Enforcement Section aka Cal DOSH or Cal/OSHA which is a part of the California Division of Industrial Relations.

Certified Asbestos Consultant (CAC):
An asbestos competent person registered with Cal/DOSH in accordance with 8 CCR 1529 and familiar with asbestos abatement and asbestos-related work. The CAC can design asbestos abatement projects, prepare reports, work plans and specifications.

Certified Industrial Hygienist (CIH):

An industrial hygienist certified in Comprehensive Practice by the American Board of Industrial Hygiene.

Certified Site Surveillance Technician (CSST):

An asbestos competent person registered in accordance with 8 CCR 1529 that monitors the asbestos abatement activities of others, provides asbestos air monitoring services for area and personal samples, and performs building surveys and contract administration at the direction of a Certified Asbestos Consultant.

Competent Person:

Means one who is capable of identifying existing asbestos hazards in the workplace and who has the authority to take prompt corrective measures to eliminate them.

Consultant:

Means the person, persons, and/or company contracted by the Owner to provide third party oversight of the project described in these specifications. The Consultant shall have no business relationship with the Contractor.

Contractor:

Means the person, persons, and/or company contracted by the Owner to provide the services specified herein.

Decontamination Enclosure:

A decontamination system consisting of a clean room, a shower room, and an equipment room separated from each other and from the regulated area by airlocks. This system is used for all workers to enter and exit the regulated area and may also serve as equipment and waste pass out on small jobs.

Encapsulation:

The application of a bridging or penetrating liquid material to asbestos containing materials to control the release of asbestos fibers into the air. The bridging liquid material creates a membrane over the surface and the penetrating liquid material seeps through the surface and binds all components together.

Enclosure:

The construction of an airtight, impermeable barrier around asbestos containing material to control the release of asbestos fibers into the air.

EPA: U. S. Environmental Protection Agency

Excursion Limit (EL) :

OSHA exposure limit which is 1.0 fiber per cubic centimeter of air as averaged over a sampling period of thirty (30) minutes.

Friable Asbestos-containing Material:

Any material containing more than one percent asbestos as determined using the method specified in appendix E, subpart E 40 CFR part 763, Section 1, Polarized Light Microscopy, that, when dry, can be crumbled, pulverized or reduced to powder by hand pressure.

Glovebag Technique:

A method with limited applications for removing small amounts of friable asbestos-containing material from ducts, short piping runs, valves, joints, elbows, and other nonplanar surfaces in a non-contained (plasticized) regulated area. The glovebag is constructed and installed in such a

manner that it surrounds the object or material to be removed and contains all asbestos fibers released during the process.

HEPA Filter:

A high efficiency particulate air filter capable of removing particles 0.3 microns in diameter with 99.97% efficiency.

HEPA Vacuum:

A vacuum system equipped with HEPA filtration.

NESHAP:

National Emission Standards for Hazardous Air Pollutants

Non-Friable Asbestos-containing Material:

Any material containing more than one percent asbestos as determined using the method specified in appendix E, subpart E 40 CFR part 763, Section 1, Polarized Light Microscopy, that, when dry, cannot be crumbled, pulverized or reduced to powder by hand pressure.

OSHA:

The Federal Occupational Safety and Health Administration; may also be referenced instead of Cal/DOSH or Cal/OSHA equivalent regulations.

Owner:

Means the owner of the properties in which the activities described in these specifications are to be performed for. The Owner will also be the employer of the personnel working in the affected building.

(designated) Owner Representative:

Means the person, persons, or company who monitors the work specified in this document with the Owner's interests as a priority. Compliance with these specifications will be monitored by the Owner's Representative. The Consultant and the Owner's Representative will be the same unless otherwise specified.

Permissible Exposure Limits (PELs):

No personnel associated with asbestos abatement work shall be exposed to an airborne concentration of asbestos in excess of the following limits, as determined by the method prescribed in Appendix A to OSHA 29 CFR 1926.1101, or by an equivalent method:

PEL - OSHA Permissible Exposure Limit which is 0.1 fiber per cubic centimeter of air as an eight (8)-hour time-weighted average.

Excursion Limit (EL) - OSHA exposure limit which is 1.0 fiber per cubic centimeter of air as averaged over a sampling period of thirty (30) minutes.

Regulated Area:

An area identified by specific boundaries where airborne concentrations of asbestos exceed, or can reasonably be expected to exceed, the PEL and/or Excursion Limit. The regulated area may take the form of a temporary negative-pressure enclosure, or an area specifically identified and segregated in any manner that minimizes the number of employees exposed to asbestos.

South Coast Air Quality Management District (SCAQMD):

The SCAQMD is the local enforcement and notification agency within Orange, and populated portions of Los Angeles, San Bernardino and Riverside Counties in the State of California.

Surfactant:

A chemical wetting agent added to water to improve penetration.

Visible Emissions:

Any emissions containing particulate asbestos material that is visually detectable without the aid of instruments. This does not include condensed uncombined water vapor.

Wet Cleaning:

The process of eliminating asbestos contamination from building surfaces and objects by using cloths, mops, or other cleaning utensils which have been dampened with water and afterwards thoroughly decontaminated or disposed of as asbestos contaminated waste.

## 1.05 SUBMITTALS AND NOTICES

A. No later than 10 business days prior to commencement of work, Contractor shall submit electronic format or PDF files to the Owner Representative and/or Consultant documentation that includes, without limitation, the following:

1. Current copies of licenses and registrations as required by Article 1.03, Qualifications.

2. Copies of written notification to the following regulatory agencies:

   a. Cal/DOSH
   b. SCAQMD
   c. City of Corona (if applicable)

3. Current proof of insurance coverage required by Article 1.10 Insurance Requirements (include proof of insurance for subcontractors).

4. Current proof that required permits, site location and arrangements for transport and disposal of asbestos materials have been made.

5. Current proof of legal right to use patented equipment or processes.

6. Current Manufacturer's certification that HEPA vacuums, differential pressure air filtration devices and other local exhaust ventilation equipment conform to ANSI Z9.2-79 and have been permitted by the SCAQMD.

7. Current documentation showing that Contractor's employees, including foreman, supervisor, and any other company personnel or agents who may be exposed to airborne asbestos fibers or who may be responsible for any aspects of asbestos abatement activities, have received training as required by 29 CFR 1926.1101 and 8 CCR 1529.

8. Current documentation from Physician (signed by an M.D.) showing that all employees or agents who may be exposed to airborne asbestos fibers, and/or lead dust, in excess of background levels have received medical monitoring to determine whether they are physically capable of working while wearing the respirator required without suffering adverse health effects. The Contractor must be aware of and provide information to the examining physician about unusual conditions in the workplace environment (e.g. high temperatures, humidity, chemical contaminants) that may impact on the employee's ability to perform work activities.

9. Current documentation of respirator fit-testing for all Contractor employees and agents who must enter the work area. This fit-testing shall be conducted annually and in accordance with procedures as required by 29 CFR 1910.134 and 8 CCR 5144.

10. An emergency preparedness plan as required by Article 1.07 - Emergency Planning.

11. Master schedule, showing phasing, number of shifts, time for air clearances, tear down and manpower loading to be utilized for the duration of the project.

12. A site-specific work plan based on scope of work. Include a diagram showing containment set-up, decontamination unit(s), locations of negative air machines and exhaust placement.

13. The name, address and telephone number of the transporter and disposal facility must be provided to the Owner.

B. During abatement activities, Contractor shall submit to the Owner Representative and/or Consultant documentation that includes, without limitation, the following:

1. Copies of the work area entry/exit log book. Log book must record name, affiliation, time in, and time out for each entry into the work area.

2. Copies of logs documenting filter changes on respirators, HEPA vacuums, differential pressure air filtration devices, water filtration device, and other engineering controls.

3. Copies of Safety Data Sheets (SDS) for solvents, encapsulants, wetting agents, replacement materials, and other substances brought by Contractor to the Project Site. SDSs shall be available the first day that subject materials/substances are present on the project site.

4. Results of all required Cal/DOSH compliance air monitoring. Results shall be available prior to the start of the following shift and within 24 to 48 hours of completion of the last shift.

5. Copies of all accident/incident reports where injury or damage has occurred on or to the Owner's property.

6. Copies of daily work logs indicating location(s) worked, type of materials removed, quantity of materials removed and number of personnel conducting the aforementioned activities.

7. Copies of all transport manifests, trip tickets and disposal receipts for all asbestos and lead removed from the work area shall be provided. Copies shall be emailed to the following individual(s):

Ms. Jacquelyn Roberts
Construction Director – Facilities Division
Corona-Norco Unified School District
2820 Clark Avenue
Norco, California 92860
Jacquelyn.Roberts@cnusd.k12.ca.us

8. Referenced documents within this section shall also be provided to the Environmental Consultants. These documents will be utilized in the generation of a Close out Report at the conclusion of the abatement activities.

## 1.06 SITE SECURITY

A. Contractor shall be responsible for the security of the regulated area(s) during abatement operations in order to protect work efforts and Owner equipment. Contractor will also be responsible for the security of all their equipment and materials on the job site.

B. The regulated area shall be restricted to only authorized, trained, and protected personnel. These may include the Contractor's employees, employees of subcontractors, State representatives, and any other designated individuals. A list of authorized personnel shall be established prior to job start and posted in the clean room of the decontamination facility. A log book shall be maintained in the clean room area of the decontamination system. Anyone who enters the regulated area must record name, affiliation, time in, and time out for each entry.

C. Contractor shall assure any unauthorized individual entering the regulated area is decontaminated (if required), evict them, and notify the Owner Representative of the actions taken and the identity of the unauthorized individual.

D. Access to the regulated area shall be through a single decontamination system. All other means of access (doors, windows, hallways, etc.) shall be blocked or locked so as to prevent entry to or exit from the regulated area. The only exceptions to this rule are the waste pass-out air lock which shall be sealed except during the removal of containerized asbestos waste from the regulated area, and emergency exits in case of fire or accident. Emergency exits shall not be locked from the inside. However, they shall be sealed with polyethylene sheeting and tape until needed.

## 1.07 EMERGENCY PLANNING

A. Emergency procedures shall be in written form and prominently posted in the clean change area and equipment room of the worker decontamination area. Everyone prior to entering the regulated area must read and sign these procedures to acknowledge receipt and understanding of work site layout, location of emergency exits and emergency procedures.

B. Contractor employees shall be trained in evacuation procedures in the event of workplace emergencies under the following conditions:

1. For non-life-threatening situations, employees injured or otherwise incapacitated shall decontaminate following normal procedures with assistance from fellow workers, if necessary, before exiting the workplace to obtain proper medical treatment.

2. For life-threatening injury or illness, worker decontamination shall take least priority; after measures to stabilize the injured worker, remove the worker from the workplace and secure proper medical treatment.

C. Telephone numbers of all emergency response personnel shall be prominently posted in the clean change area and equipment room along with the location of the nearest telephone.

D. Exit routes should be clearly identified in the containment.

E. Procedures to prevent and treat heat stress must be posted in the clean room area. Workers shall be provided easy access to drinking water outside of the regulated area(s) and encouraged to drink frequently.

### 1.08 MEETINGS

A. Refer to Division 1 and CNUSD and/or General Contractor Subcontractor Agreements.

### 1.09 DELIVERY, STORAGE, AND HANDLING

A. Refer to Division 1 and CNUSD and/or General Contractor Subcontractor Agreements.

### 1.10 INSURANCE REQUIREMENTS

A. Refer to Division 1 and CNUSD and/or General Contractor insurance requirements.

### 1.11 BONDING REQUIREMENTS

A. Refer to Division 1 and CNUSD and/or General Contractor Subcontractor Agreements.

### 1.12 PROJECT SCHEDULE

A. Project Start Date: Refer to CNUSD and/or General Contractor's Instructions to Bidders and Published Project Schedule. Multiple notices to regulatory agencies and mobilizations will be required, as the project is phased.

## PART 2 - PRODUCTS

### 2.01 MATERIALS

A. Polyethylene sheeting for all uses shall be a minimum of six (6) mil thickness. Widths will be selected to minimize the frequency of joints. All plastic, spray-on strippable coatings and structural materials shall be UL-certified as fire-retardant or non-combustible.

B. Deliver all materials in the original packages, containers, or bundles bearing the name of the manufacturer and brand name (where applicable).

C. Polyethylene sheeting utilized for decontamination enclosure shall be opaque white or black in color and 6-mil in thickness.

D. Disposal bags shall be of six (6) mil polyethylene, preprinted with labels as required by Cal/DOSH Requirement 8 CCR 1529 (k) (8) (C).

E. Metal disposal bins shall be used for the storage of asbestos-containing waste materials. Bins shall be lined in plastic sheeting affixed with spray glue and tape at walls, floor and ceiling of the bin. As

an alternate, disposal drums for transporting disposal bags may be used. Drums shall be metal, 55-gallon DOT A1A (DOT 17H) with locking ring tops and will meet the requirements of 49 CFR 172 – 178. Stick-on labels as per EPA and 8 CCR 1529 (k) (8) requirements shall be provided for the disposal drums.

F. If utilized, mastic removal solvents shall not be or create a RCRA waste and shall be of the low odor variety.

G. Surfactant (Wetting Agent) for Amended Water:

1. For use with materials containing asbestos identified as "Amosite", shall be a 50/50 mixture of polyoxymethylene ether and polyoxyethylene ester, mixed in a proportion of one (1) fluid ounce to five (5) gallons of water or as specified by manufacturer.

2. For all materials containing asbestos identified as "chrysotile", "crocidolite", or types other than Amosite, shall consist of soapy water mixed in a proportion of two (2) fluid ounces of liquid soap to five (5) gallons of water.

3. Where regulated area temperature may cause freezing of the amended water solution, the addition of ethylene glycol in amounts sufficient to prevent freezing is permitted.

H. Encapsulating Material:

1. Bridging type encapsulant (for sealing masonry and concrete walls, barrier surfaces during cleanup phase and asbestos containing surfaces to remain in place) shall be capable of being applied with airless spray equipment, able to withstand light impact or abrasion without releasing fibers, and be water insoluble when cured.

2. Penetrating type encapsulant (for sealing scratch coat plaster, wood grounds and wood blocking which have been in contact with asbestos containing material and also exposed ends of pipe insulation) shall not be noxious or toxic to applicator or subsequent occupants, shall have high flame retardance and low toxic fume and smoke emission ratings, and shall have some permeability to water vapor to prevent condensation accumulation.

3. Encapsulants shall be applied using airless spray equipment or hand pressurized sprayer.

## 2.02 EQUIPMENT

A. Negative Pressure Ventilation Units (Use as applicable):

1. A sufficient quantity of negative pressure ventilation units equipped with HEPA filtration and operated in accordance with ANSI and EPA guidance documents. They shall be utilized so as to provide one workplace air change every 15 minutes.

To calculate total air flow requirement:

$$\text{Total } Ft^3/\text{Min.} = \frac{\text{Volume of Regulated area (in } Ft^3)}{15 \text{ Min.}}$$

To calculate the number of units needed for the abatement:

$$\text{Number of Units Needed} = \frac{\text{Total Ft}^3\text{/Min.}}{0.75(\text{Capacity of Unit in Ft}^3\text{/Min.})}$$

2. The air filtering equipment shall be capable of filtering asbestos fibers at 0.3 um at 99.97 percent efficiency. Pre-filters, which protect the final filter by removing the larger particles, are required to prolong the operating life of the HEPA filter. Two stages of pre-filtration are required. The first-stage pre-filter shall be a low efficiency type (e.g., for particles 10 um and larger). The second-stage (or intermediate) filter shall have a medium efficiency (e.g., effective for particles down to 5 um). Pre-filters and intermediate filters shall be installed either on or in the intake grid of the unit and held in place with special housings or clamps.

3. The exhaust air for the air filtering devices used to maintain negative pressure in the contained regulated area(s) shall be directed outdoors to an area where unprotected personnel are not present.

4. The regulated area shall be maintained at a negative pressure of -0.02 inches of water (head). The ventilation shall operate on a 24-hour basis throughout the abatement process until final clearance has been approved.

B. Air Purifying Respirators: Respirator bodies shall be of half face or full-face type with removable cartridges. Single use, disposable or quarter face respirators shall not be used. Full face respirators shall be equipped with a nose cup or other anti-fogging devices as would be appropriate for use in air temperatures less than 32 degrees F. Filter cartridges shall, at a minimum, be HEPA type filters certified by NIOSH under 30 CFR Part 11 or with filters certified for particulates under 42 CFR Part 84 (e.g., P100).

C. Full body disposable protective clothing, including head, body and foot coverings consisting of material impenetrable by asbestos fibers (Tyvek® or equivalent) shall be provided to all workers and authorized visitors in sizes adequate to accommodate movement without tearing.

1. Full body disposable protective clothing as described above shall be provided to authorized visitors in sizes adequate to accommodate movement without tearing on request.

D. Additional safety equipment (as necessary), such as hard hats, eye protection, safety shoes, disposable gloves meeting the requirements of current ANSI Standards shall be provided to all workers and authorized visitors. Nonskid footwear shall be provided to all abatement workers. Disposable clothing shall be adequately sealed to the footwear and gloves to prevent body contamination.

E. Provide sufficient supply of disposable mops, rags and sponges for work area decontamination. Rubber dust pans and rubber squeegees shall be provided for cleanup.

F. Provide scaffolds, ladders, lifts and hand tools such as scrapers, wire cutters, brushes, utility knives, and wire saws, as the work requires. Brushes utilized for removing loose asbestos containing material shall have nylon or fiber bristles, not metal.

1. Contractor must have in place a valid Fall Protection Plan, in compliance with Cal/DOSH requirements, to be reviewed and approved by the designated Owner Representative.

G. Sprayers shall have pumps capable of providing 14-15 pounds per square inch (psi) at the nozzle tip at a flow rate of 2 gallons per minute for spraying amended water.

H. A sufficient supply of HEPA filtered vacuum systems shall be available during cleanup.

I. Airless spray equipment with an adjustable low-pressure nozzle shall be provided for spraying wetting agents and encapsulants. Nozzle tip size and pressure adjustment shall conform to encapsulant manufacturer's written recommendations.

J. Heavy duty power cables for temporary electrical service and a portable electric generator for maintaining negative pressure in the work area in case of power failure.

K. Warning Signs and Labels: As required OSHA Regulation 29 CFR 1926.1101(k) and 8 CCR 1529 (k).

L. Other equipment the Contractor deems necessary for asbestos abatement work shall be submitted to the designated Owner Representative and/or Consultant for approval prior to their use.

## PART 3 EXECUTION

### 3.01 GENERAL COMPLIANCE MEASURES

A. Mandatory Protection Conditions: Contractor's employees shall wear appropriate respiratory protection and protective clothing under the following conditions:

1. During installation or implementation of engineering work practices and control measures.

2. During maintenance and repair activities for which control measures, hereinafter described, are not feasible.

3. Whenever the control measures are not yet sufficient to reduce exposure below the Permissible Exposure Limits (TWA and/or Excursion Limits).

4. Whenever emergency conditions exist.

B. Control Measures: The Contractor shall use one or any combination of the following control methods to achieve compliance with the "Permissible Exposure Limits" defined herein:

1. Local exhaust ventilation equipped with HEPA filter dust collection systems (as referenced in 2.02.).

2. General dilution ventilation equipped with HEPA filtration systems on both exhaust and return air (as referenced in 2.02.).

3. Vacuum cleaners equipped with HEPA filters (as referenced in 2.02.).

4. Enclosure or isolation of processes producing airborne asbestos fibers and dust.

5. Use of wet methods, wetting agents or removal encapsulants to control employee exposures during their performance of asbestos abatement activities. Where wet methods

would result in equipment damage or a safety hazard, dry removal is allowed with written approval from Cal/DOSH, SCAQMD and the designated Owner Representative.

6. Prompt clean up and disposal of wastes contaminated with asbestos in leak-tight containers.

C. Supplement to Control Measures: Whenever the control measures described above are not sufficient to reduce the employee exposure to or below the "Permissible Exposure Limits" (TWA and/or Excursion Limit), the Contractor shall continue to use the control measures to maintain the employee exposure to the lowest levels attainable and supplement them with the use of appropriate respiratory protection and protective clothing.

D. Negative-Pressure Enclosure: A negative-pressure enclosure shall be employed whenever feasible, prior to commencing removal, demolition and renovation operations involving asbestos containing materials. The negative air machines should be ducted outdoors, especially if the space outside the containment is occupied. This will prevent the indoor spread of contamination if the negative air machine malfunctions or other chemicals are used in the containment (not recommended) which would not be filtered by the machines. If the area of work outside is dusty, then a square hole may be cut in the containment and fitted with a pleated residential air filter (Minimum Efficiency Reporting Value [MERV] 11 or better) to filter the make-up air. The entry to the containment should be well sealed to prevent the entry of unfiltered outside air.

E. Types of Respiratory Protection: The following Table represents the minimum respiratory protection required for given airborne concentrations of asbestos:

| Airborne Concentration of Asbestos | Required Respirator |
|---|---|
| Not in excess of 1 f/cc (10x PEL) | Half-mask air purifying respirator equipped with high-efficiency filters |
| Not in excess of 5 f/cc (50x PEL) | Full face piece air purifying respirator equipped with high-efficiency filters (quantitatively fit tested) |
| Not in excess of 10 f/cc (100x PEL) | 1. Any powered air purifying respirator equipped with high efficiency filters or<br>2. Any supplied air respirator operated in continuous flow mode. |
| Not in excess of 100 f/cc (1000x PEL) | Full face piece supplied air respirator operated in pressure demand mode. |
| Greater than 100 f/cc (1,000x PEL) or an unknown concentration | Full face piece supplied air respirator operated in pressure demand mode equipped with an auxiliary positive pressure self-contained breathing apparatus. |

NOTE: Respirators assigned for higher environmental concentrations may be used at lower concentrations. A high-efficiency filter means a filter that is at least 99.97 percent efficient against mono-dispersed particles of 0.3 micrometers in diameter or larger.

F. For all OSHA Class I work, a Powered Air Purifying Respirator (PAPR) or Supplied Air Respirator (SAR) shall be used until initial air monitoring determines that the OSHA PEL and EL will not be exceeded, at which point a half mask or full face respirator may be used for the remainder of the project.

G. Employee Rotation: The Contractor shall not use employee rotation as a means of compliance with Permissible Exposure Limits (TWA and/or Excursion Limit).

H. Supervision: The Contractor shall have a bilingual (usually English and Spanish) licensed project supervisor on site at all times that only supervises the project and is responsible to assure contract and regulatory compliance. He/she shall have a mobile phone available 24 hours per day with the number provided to the designated Owner Representative(s) identified during the pre-construction meeting.

I. A minimum of two workers will be present at the job site during any work activities.

***THE FOLLOWING SECTIONS ARE PROVIDED AS A PRECAUTIONARY MEASURE AS THE FOLLOWING MATERIALS ARE CONSIDERED PACMS:***

- ***Grout and mortar to ceramic tiles***
- ***Interior lining of the swimming pool.***

**3.02 Class I Asbestos Removal Work**

The following procedure shall be utilized for all removal of Class I friable materials. The following procedures are not applicable to the project as presently conceived and are provided as a contingency.

A. Contractor shall coordinate all items of work with the Project Environmental Consultant.

B. Contractor shall shut down and lock out all heating, cooling, and air conditioning system (HVAC) components that are in supply or pass through the work area. The HVAC system (such as an air intake) shall remain off during the project.

C. In the event that active power is still in the area, the Contractor shall shut down and lock out electric power to all Work Areas. Contractor shall then provide temporary power and lighting sources, ensure safe installation of temporary power sources and equipment by compliance with all applicable electrical code requirements and Cal/OSHA requirements for temporary electrical systems. Protect each circuit with a Ground Fault Circuit Interrupter (GFCI) of proper size located in the temporary panel.

D. Install worker decontamination unit described in Article 3.07 or as agreed upon with Project Environmental Consultant.

E. Post warning signs meeting the specifications of 8 CCR 1529, 8 CCR 5208, and 29 CFR 1926.1101, at any location and approaches to a location where airborne concentration of asbestos fibers may exceed ambient background levels. Signs shall be posted at a distance sufficiently far enough away from a work area to permit a person to read the sign and take necessary protective measures to avoid exposure.

F. Asbestos Handlers shall don personnel protective equipment as required in Article 2.02, Equipment.

G. Pre-clean all vertical and horizontal surfaces within the work area using HEPA-filtered vacuum and/or wet cleaning techniques, as appropriate. Contractor shall not use any methods that would raise dust, such as dry sweeping or vacuuming with equipment not equipped with HEPA filters, and shall not disturb asbestos-containing materials during the pre-cleaning phase.

H. Seal off all windows, doorways, entrances, drains, ducts, grills, grates, diffusers and any other openings between the Work Area and uncontaminated areas outside of the Work Area with two layers six-mil fire retardant polyethylene sheeting and tape.

I. Cover all immovable items (plumbing, etc.) and/or construct walls in the Work Area with fire retardant polyethylene sheeting and seal with duct tape, as appropriate. Walls that will be demolished do not necessarily need protection (check with Project Environmental Consultant). Walls shall be decontaminated using HEPA vacuums and wet cleaning techniques. Walls with mortar joints (e.g., tile) are considered porous. Openings through these walls, including louvers in Mechanical Rooms, must be sealed by critical barriers.

1. Walls shall be covered with two layers six-mil fire-retardant polyethylene sheeting (sealed airtight with duct tape).
2. Plastic shall be sized to minimize seams. Seams shall be staggered and separated by a distance of at least six feet.
3. Wall sheeting shall overlap floor sheeting by at least 12 inches beyond the wall/floor joint to provide a better seal against water damage and for negative pressure.
4. Wall sheeting shall be secured adequately to prevent it from falling away from the walls. This will require additional support/attachment when Negative Pressure Ventilation Systems are utilized.
5. Where necessary for structural support, plywood sheeting and/or 2x4 lumber shall be utilized to ensure the structural integrity of the containment and critical barriers.
6. Fire exits shall be clearly labeled as required by Regulations.

J. Install the minimum number of 2' x 3' clear view windows that will provide visual access to ALL areas of each enclosure.

K. Install and initiate operation of negative pressure air filtration differential as required in Article 2.02, Equipment. Negative pressure differential shall be at a minimum of -0.02" of water column at all times during asbestos removal operations.

L. Install and maintain a manometer equipped with a strip chart recorder. Manometer shall be capable of detecting at least -0.02" of water column.

N. The Contractor shall carry out all asbestos removal activities in a manner that will minimize pulverizing, breaking or creation of dust. Only manual removal methods will be performed under this Specification. Mechanical removal methods MUST be submitted in writing and approved by Owner Representatives under Alternative Procedures (see Article 3.19).

O. Keep the ACMs being removed wet throughout removal operations by the use of an airless sprayer. In the event that visible dust is generated during the abatement process, mist the air within the containment periodically with water or an amended water solution with an airless sprayer to reduce airborne asbestos fiber concentrations.

P. Once all removal activities have been completed, clean-up of the work areas shall be conducted in accordance with Article 3.10, Clean-Up Procedures.

Q. Encapsulate entire work area with a penetrating and/or lock-down type encapsulant following acceptance of clean-up activities.

R. Dispose of all asbestos containing/contaminated waste in accordance with Article 3.13, Disposal Procedures.

### 3.03 Class II Non-Friable Asbestos Removal Work (Interior)

The following procedure shall be utilized for all manual (non-mechanical) removal of non-friable/Class II ACMs. The following procedures are not applicable to the project as presently conceived and are provided as a contingency.

A. Contractor shall coordinate all items of work with the Project Environmental Consultant.

B. Contractor shall shut down and lock out all heating, cooling, and air conditioning systems (HVAC) components that are in supply or pass through the work area. In the event that there is any impact to the HVAC system (such as an air intake), the HVAC system shall remain off during the project.

C. Contractor shall shut down and lock out electric power to all Work Areas. Contractor shall provide temporary power and lighting sources, insure safe installation of temporary power sources and equipment by compliance with all applicable electrical code requirements and Cal/OSHA requirements for temporary electrical systems. Protect each circuit with a Ground Fault Circuit Interrupter (GFCI) of proper size located in the temporary panel.

D. Install worker decontamination unit described in Article 3.07 or as agreed upon with Project Environmental Consultant.

E. Post warning signs meeting the specifications of 8 CCR 1529, 8 CCR 5208, and 29 CFR 1926.1101, at any location and approaches to a location where airborne concentration of asbestos fibers may exceed ambient background levels. Signs shall be posted at a distance sufficiently far enough away from a work area to permit a person to read the sign and take necessary protective measures to avoid exposure.

F. Asbestos Handlers shall don personnel protective equipment as required in Article 2.02 - Equipment.

G. Pre-clean all vertical and horizontal surfaces within the work area using HEPA-filtered vacuum and/or wet cleaning techniques, as appropriate. Contractor shall not use any methods that would raise dust, such as dry sweeping or vacuuming with equipment not equipped with HEPA filters and shall not disturb asbestos-containing materials during the pre-cleaning phase.

H. Seal off all windows, doorways, elevator openings, corridor entrances, drains, ducts, grills, grates, diffusers, skylights and any other openings between the Work Area and uncontaminated areas outside of the Work Area with two layers six-mil fire retardant polyethylene sheeting and tape.

I. Cover floors in the area of ceiling or upper wall removal areas with fire retardant polyethylene sheeting (do not cover floors where flooring finishes, such as floor tile and/or mastic, are to be removed).

1. A single layer of six-mil (minimum) sheeting. Additional layers of sheeting shall be utilized as a drop cloth to aid in cleanup of bulk materials.

2. Containment plastic shall be sized to minimize seams. If the floor area necessitates seams, those on successive layers of sheeting shall be staggered to reduce the potential for water to penetrate to the flooring material. A distance of at least 6 feet between seams is sufficient. Do not locate any seams at wall/floor joints.

3. Plastic floor sheeting shall extend at least 12" up the side walls of the Work Area.

4. Sheeting shall be installed in a fashion so as to prevent slippage between successive layers of material.

J. Cover all immovable items (plumbing, etc.) and/or construct walls in the Work Area with fire retardant polyethylene sheeting. Walls that will be demolished do not necessarily need protection (check with Project Environmental Consultant). Walls shall be decontaminated using HEPA vacuums and wet cleaning techniques. Walls with mortar joints (e.g., tile) are considered porous. Openings through these walls must be sealed by critical barriers.

1. Walls shall be covered with two layers six-mil fire-retardant polyethylene sheeting (sealed airtight with duct tape).

2. Plastic shall be sized to minimize seams. Seams shall be staggered and separated by a distance of at least six feet.

3. Wall sheeting shall overlap floor sheeting by at least 12 inches beyond the wall/floor joint to provide a better seal against water damage and for negative pressure.

4. Wall sheeting shall be secured adequately to prevent it from falling away from the walls. This will require additional support/attachment when Negative Pressure Ventilation Systems area utilized.

5. Fire exits shall be clearly labeled as required by Regulations.

K. Install the minimum number of 2' x 3' clear view windows that will provide visual access to ALL areas of the enclosure.

L. Install and initiate operation of negative pressure air filtration differential as required in Article 2.02 - Equipment. Negative pressure differential shall be at a minimum of -0.02" of water column at all times during asbestos removal operations.

M. Install and maintain a manometer equipped with a strip chart recorder. Manometer shall be capable of detecting at least -0.02" of water column.

N. The Contractor shall carry out all asbestos removal activities in a manner that will minimize pulverizing, breaking or creation of dust. Only manual removal methods will be performed under this Specification. Mechanical removal methods MUST be submitted in writing and approved by Owner Representatives under Alternative Procedures (see Article 3.19).

O. Keep the ACMs being removed wet throughout removal operations. In the event that visible dust is generated during the abatement process, also mist the air within containment periodically to reduce airborne asbestos fiber concentrations.

P. Once all removal activities have been completed, clean-up of the work areas shall be conducted in accordance with Article 3.14 - Clean-Up Procedures.

Q. Encapsulate entire work area with a penetrating and/or lock-down type encapsulant following acceptance of clean-up activities.

R. Dispose of all asbestos containing/contaminated waste; debris shall be kept wet at all times and be bagged while wet in accordance with Article 3.17 - Disposal Procedures.

### 3.04 Class II Non-Friable Asbestos Removal Work (Exterior)

The following procedure shall be utilized for all removal of non-friable/Class II exterior materials. The following procedures are not applicable to the project as presently conceived and are provided as a contingency.

A. Contractor shall coordinate all items of work with the Project Environmental Consultant.

B. Contractor shall shut down and lock out all heating, cooling, and air conditioning system (HVAC) components that are in supply or pass through the work area. In the event that there is any impact to the HVAC system (such as a fresh air intake), the HVAC system shall remain off during the project.

C. Contractor shall shut down and lock out electric power to all Work Areas. Contractor shall provide temporary power and lighting sources, ensure safe installation of temporary power sources and equipment by compliance with all applicable electrical code requirements and Cal/OSHA requirements for temporary electrical systems. Protect each circuit with a Ground Fault Circuit Interrupter (GFCI) of proper size located in the temporary panel.

D. Contractor shall establish a regulated area around the perimeter of the designated work area. At a minimum, the regulated area shall consist of barrier tape and delineators at sufficient distance from the work area so that debris does not fall outside of the regulated area based on current conditions at the site. The barrier tape may contain appropriate wording such as “DANGER ASBESTOS”. Appropriate signage and a worker decontamination unit shall be included, and part of the regulated area (see below).

E. Install worker decontamination unit described in Article 3.07 or as agreed upon with Project Environmental Consultant. Installation shall occur as close to the designated work area as possible, with polyethylene sheeting laid down between the decontamination unit and the work area access.

F. Post warning signs meeting the specifications of 8 CCR 1529, 8 CCR 5208, and 29 CFR 1926.1101, at any location and approaches to a location where airborne concentration of asbestos fibers may exceed ambient background levels. Signs shall be posted at a distance sufficiently far enough away from a work area to permit a person to read the sign and take necessary protective measures to avoid exposure.

G. Asbestos Handlers shall don personnel protective equipment as required in Article 2.02. Double-suiting is recommended if decontamination unit is not on roof.

H. Pre-clean all vertical and horizontal surfaces within the work area using HEPA-filtered vacuum and/or wet cleaning techniques, as appropriate. This may include HVAC duct work and equipment only; there is no need to pre-clean surfaces to be removed. Contractor shall not use methods that would raise dust, such as dry sweeping or vacuuming with equipment not equipped with HEPA filters and shall not disturb asbestos-containing materials during the pre-cleaning phase.

H. Seal off all windows, doorways, drains, ducts, and any other openings between the Work Area and uncontaminated areas outside of the Work Area with six-mil fire retardant polyethylene sheeting and tape. Walls with mortar joints (e.g., tile) are considered porous. Openings through these walls must be sealed by critical barriers.

I. Place 6-mil plastic sheeting at the base of building underneath the work area and fasten to the building wall with tape to catch debris that may be generated during abatement or be dislodged from windows or fire doors during abatement. At a minimum, plastic sheeting shall be placed 10 feet out from the work area but must remain inside the regulated area. The regulated area and plastic sheeting may need to be extended based on site conditions at the time of abatement.

J. The Contractor shall carry out all asbestos removal activities in a manner that will minimize pulverizing, breaking or creation of dust. Only manual removal methods will be performed under this Specification. Mechanical removal methods MUST be submitted in writing and approved by Owner Representatives under Alternative Procedures (see Article 3.19).

K. Keep the ACMs being removed wet throughout removal operations. In the event that visible dust is generated during the abatement process, also mist the air within regulated area periodically to reduce airborne asbestos fiber concentrations.

Bags of asbestos waste shall not be dropped or thrown, but carefully lowered to the ground surface. If chutes are utilized, the chutes shall be completely sealed in poly sheeting.

L. Once all removal activities have been completed, clean-up of the work areas shall be conducted in accordance with Article 3.14 - Clean-Up Procedures.

M. Encapsulate entire work area with a penetrating and/or lock-down type encapsulant following acceptance of clean-up activities.

N. Dispose of all asbestos containing/contaminated waste in accordance with Article 3.17 - Disposal Procedures.

### 3.05 Class II Asbestos Removal Work - ACCM

The following procedure shall be utilized for the removal of Class II ACCMs. The following procedures are not applicable to the project as presently conceived and are provided as a contingency.

A. Contractor shall coordinate all items of work with the Project Environmental Consultant.

B. Contractor shall shut down and lock out all heating, cooling, and air conditioning systems (HVAC) components that are in supply or pass through the work area. In the event that there is any impact to the HVAC system (such as an air intake), the HVAC system shall remain off during the project.

C. Contractor shall shut down and lock out electric power to all Work Areas. Contractor shall provide temporary power and lighting sources, insure safe installation of temporary power sources and equipment by compliance with all applicable electrical code requirements and Cal/OSHA requirements for temporary electrical systems. Protect each circuit with a Ground Fault Circuit Interrupter (GFCI) of proper size located in the temporary panel.

D. Install worker decontamination unit described in Article 3.07 or as agreed upon with Project Environmental Consultant.

E. Post warning signs meeting the specifications of 8 CCR 1529, 8 CCR 5208, and 29 CFR 1926.1101, at any location and approaches to a location where airborne concentration of asbestos fibers may exceed ambient background levels. Signs shall be posted at a distance sufficiently far enough away from a work area to permit a person to read the sign and take necessary protective measures to avoid exposure.

F. Asbestos Handlers shall don personnel protective equipment as required in Article 2.02.

G. Pre-clean all vertical and horizontal surfaces within the work area using HEPA-filtered vacuum and/or wet cleaning techniques, as appropriate. Contractor shall not use any methods that would raise dust, such as dry sweeping or vacuuming with equipment not equipped with HEPA filters and shall not disturb asbestos-containing materials during the pre-cleaning phase.

H. Seal off all windows, doorways, elevator openings, corridor entrances, drains, ducts, grills, grates, diffusers, skylights and any other openings between the Work Area and uncontaminated areas outside of the Work Area with two layers six-mil fire retardant polyethylene sheeting and tape.

I. Cover floors in the area of ceiling or wall removal areas with fire retardant polyethylene sheeting (do not cover floors where flooring finishes, such as floor tile and/or mastic, are to be removed).

1. A single layer of six-mil (minimum) sheeting. Additional layers of sheeting shall be utilized as a drop cloth to aid in cleanup of bulk materials.

2. Containment plastic shall be sized to minimize seams. If the floor area necessitates seams, those on successive layers of sheeting shall be staggered to reduce the potential for water to penetrate to the flooring material. A distance of at least 6 feet between seams is sufficient. Do not locate any seams at wall/floor joints.

3. Plastic floor sheeting shall extend at least 12" up the side walls of the Work Area.

4. Sheeting shall be installed in a fashion so as to prevent slippage between successive layers of material.

J. Cover all immovable items (plumbing, etc.) and/or construct walls in the Work Area with fire retardant polyethylene sheeting. Walls that will be demolished do not necessarily need protection (check with Project Environmental Consultant). Walls shall be decontaminated using HEPA vacuums and wet cleaning techniques. Walls with mortar joints (e.g., tile) are considered porous. Openings through these walls must be sealed by critical barriers.

1. Walls shall be covered with two layers six-mil fire-retardant polyethylene sheeting (sealed airtight with duct tape).

2. Plastic shall be sized to minimize seams. Seams shall be staggered and separated by a distance of at least six feet.

3. Wall sheeting shall overlap floor sheeting by at least 12 inches beyond the wall/floor joint to provide a better seal against water damage and for negative pressure.

4. Wall sheeting shall be secured adequately to prevent it from falling away from the walls. This will require additional support/attachment when Negative Pressure Ventilation Systems area utilized.

5. Fire exits shall be clearly labeled as required by Regulations.

K. Install the maximum number of 2' x 3' clear view windows that will provide visual access to ALL areas of the enclosure.

L. Install and initiate operation of negative pressure air filtration differential as required in Article 2.02 - Equipment. Negative pressure differential shall be at a minimum of -0.02" of water column at all times during asbestos removal operations.

M. Install and maintain a manometer equipped with a strip chart recorder. Manometer shall be capable of detecting at least -0.02" of water column.

N. The Contractor shall carry out all asbestos removal activities in a manner that will minimize pulverizing, breaking or creation of dust. Only manual removal methods will be performed under this Specification. Mechanical removal methods MUST be submitted in writing and approved by Owner Representatives under Alternative Procedures (see Article 3.19).

O. Keep the ACCMs being removed wet throughout removal operations. In the event that visible dust is generated during the abatement process, also mist the air within containment periodically to reduce airborne asbestos fiber concentrations.

P. Once all removal activities have been completed, clean-up of the work areas shall be conducted in accordance with Article 3.14 - Clean-Up Procedures.

Q. Encapsulate entire work area with a penetrating and/or lock-down type encapsulant following acceptance of clean-up activities.

R. Dispose of all asbestos containing/contaminated waste; debris shall be kept wet at all times and be bagged while wet in accordance with Article 3.17 - Disposal Procedures.

### 3.06 Abatement with the Use of Mini Containments

The following procedures are not applicable to the project as presently conceived and are provided as a contingency.

A. The mini containment shall be equipped with a HEPA filter equipped vacuum or a HEPA ventilation system to maintain negative pressure within the mini containment. Negative pressure must be maintained during the removal process.

B. All exposed ACMs within the mini containment must be encapsulated.

C. Tools and equipment used in the mini containment must be wet wiped until no visible residue remains. Wet wiped tools and equipment must be passed through the mini containment door in a sealed, leakproof container. The leakproof container must be opened only inside another mini containment or decontamination unit.

D. After the removal of the ACMs, encapsulation or enclosure is complete, the interior of the mini containment must be cleaned using HEPA filter equipped vacuuming, wet wiped, or both; and apply an encapsulant to the interior of the mini containment.

E. Before the mini containment is removed, a visual inspection of the interior and abated surfaces must be performed. If debris or material is still present, the interior of the mini containment must be recleaned.

F. Once the final visual inspection is completed, the mini containment can be removed by sealing the door and collapsing the containment using a HEPA filter equipped vacuum or tearing down the mini containment.

### 3.07 DECONTAMINATION ENCLOSURE SYSTEM

A. Worker decontamination enclosure systems shall be provided at all locations where workers will enter or exit the work area. At a minimum, one, three-stage system at a single location is preferred. Each work area where negative pressure enclosure is the selected method of engineering controls shall have a worker decontamination unit.

In the event that a three-stage decontamination unit includes a shower, the shower must be connected to a water source and have a water filtration unit attached and functioning. As an alternate, a cleansing station may be used. See Item E below.

B. Worker decontamination enclosure systems constructed at the Project site shall utilize six-mil, fire-retardant polyethylene sheeting, or other approved materials for privacy.

C. Personnel Decontamination Units shall not be located inside the work area(s) unless specifically authorized by the Project Environmental Consultant.

D. Alternate methods of providing Decontamination facilities may be submitted to the Project Environmental Consultant for approval. Do not proceed with any such method(s) without the written authorization from designated Owner Representative and/or Consultant.

E. The worker decontamination enclosure system shall consist of at least a cleansing station in accordance with the requirements of 8 CCR 1527 and 8 CCR 1529, equipped with adequate water, towels and cleansing agents to accommodate the entire crew and visitors.

F. All polyethylene barriers and decontamination enclosure systems shall be inspected at least twice daily by the Contractor's competent person prior to the start of each day's abatement activities and following the completion of the day's abatement activities.

G. Damage and defects in the enclosure system are to be repaired immediately upon discovery.

## 3.08 WORKPLACE ENTRY AND EXIT PROCEDURES

A. All workers and authorized personnel shall enter the regulated area through the decontamination enclosure system.

B. All personnel shall proceed first to the clean room, remove all street clothes, and appropriately don respiratory protection (as approved for the job conditions) and disposable coveralls, head covering and foot covering. Hard hats, eye protection and gloves shall also be utilized, if required. Clean respirators and protective clothing shall be provided and utilized by each person for each separate entry into the regulated area.

C. Personnel wearing designated personal protective equipment shall proceed from the clean room through the decontamination enclosure system to the regulated area.

D. Before leaving the regulated area, all personnel shall remove gross contamination from the outside of respirators and protective clothing by brushing or wet wiping procedures. Small HEPA vacuums with brush attachments may be utilized for this purpose. Each person shall clean bottoms of protective footwear in the walk-off pan just prior to entering the equipment room/pre-shower chamber.

E. Personnel shall proceed to equipment room where they remove all protective equipment except respirators. Deposit disposable clothing into appropriately labeled containers for disposal.

F. Reusable, contaminated footwear shall be stored in the equipment room when not in use in the regulated area. Upon completion of abatement, it shall be disposed of as asbestos contaminated waste. Rubber boots may be decontaminated at the completion of the abatement for reuse.

G. Workers will decontaminate all respirators and non-porous items with wet towels, rags provided in the equipment room. Workers will remove filter cartridges and dispose of them in the bag or receptacle provided in the equipment room. Workers will also wet wipe and decontaminate themselves in this location. Contaminated towels and suits shall be placed in bags/receptacles before proceeding to the clean room.

H. Workers shall not eat, drink, smoke, and chew gum or tobacco in the regulated area. To eat, drink or smoke, workers shall follow the procedure described above, and then dress in street clothes before entering the non-regulated areas of the building.

I. Emergency exits shall be established and clearly marked with duct tape arrows or other effective designations to permit easy location from anywhere within the regulated area. They shall be secured to prevent access from uncontaminated areas, but still permit emergency exiting. These exits shall be properly sealed with polyethylene sheeting which can be cut to permit egress, if

needed. These exits may be through the decontamination enclosure, the waste pass-out airlock, and/or other alternative exits that are satisfactory to fire officials.

## 3.09 WASTE CONTAINER PASS-OUT PROCEDURE

A. Asbestos contaminated waste that has been containerized shall be transported out of the regulated area through the waste container pass-out airlock (or through the decontamination enclosure if a separate airlock has not been constructed). Wherever possible, this shall be located where there is direct access from the regulated area to the outside of the building and the waste storage/disposal container. The waste container pass-out airlock shall be constructed in similar fashion to the worker decontamination enclosure system using similar materials and airlock and curtain doorway designs. This airlock system shall not be used to enter or exit the regulated area. The airlock system shall be tightly sealed when not in use.

B. The inside team wearing protective clothing and respirators appropriate for the contaminated regulated area shall clean the entire surface, including bottoms, of properly labeled bags, using HEPA vacuums and wet wiping techniques and transport them into the waste container pass-out airlock where they will be placed into another properly labeled bag. No worker from the inside team shall further exit the regulated area through this airlock.

C. Workers from outside the regulated area wearing appropriately assigned respirators shall enter the airlock from outside the regulated area solely for waste removal from the work area. No worker from the outside team shall further enter the regulated area through this airlock.

D. The exit from this airlock shall be secured to prevent unauthorized entry when not in use.

E. Asbestos waste bags and wrapped waste shall contain or have affixed a waste generator ID label or sticker.

## 3.106 WATER COLLECTION AND DISPOSAL

A. All water collected from pre-cleaning or wetting activities during abatement shall be collected and disposed of as ACM waste. No water shall be disposed of in sanitary sewers or storm drains.

## 3.11 WET REMOVAL PROCEDURE

A. All friable asbestos waste shall be disposed of as Hazardous, Friable Asbestos Waste.

All non-friable asbestos waste shall be disposed of as Non-Hazardous, Non-Friable Asbestos Waste.

B. Wet all asbestos containing material with an amended water solution using equipment capable of providing a fine spray mist, in order to reduce airborne fiber concentrations when the material is disturbed. Saturate the material to the substrate. Keep all removed material wet to prevent fiber release until it can be containerized for disposal.

C. Saturated asbestos-containing materials shall be removed in manageable sections, but as large as practical. Removed material should be containerized before moving to a new location for continuance of work. Surrounding areas shall be periodically sprayed and maintained in a wet condition until visible material is cleaned up.

D. Bags shall be considered full when half their capacity has been filled. They should be securely sealed to prevent accidental opening and leakage by tying tops of bags in an overhand knot or by taping in gooseneck fashion. Do not seal bags with wire or cord.

E. Large components removed intact may be wrapped in two (2) layers of six (6) mil polyethylene sheeting secured with tape for transport to the approved disposal site, and labeled.

F. Asbestos containing waste with sharp edged components (e.g., nails, screws, metal lathe, tin sheeting) shall be placed into drums for disposal in lieu of polyethylene bags. Drums shall be marked to differentiate contents from those drums containing bagged material.

G. After completion of all stripping work, surfaces from which asbestos containing materials have been removed such as plaster base coat or metal deck, etc., the surfaces shall be wet brushed and sponged to remove all visible residues.

## 3.12 AIR MONITORING

A. Area air samples shall be collected by the Environmental Consultant during portions of the abatement (i.e., beginning, middle, and end) with high volume pumps having a capacity of up to 10 liters per minute. These samples shall be of sufficient time and quantity to characterize asbestos emissions inside and outside of containment and on the perimeter of the project. The criteria of acceptability will be $\leq$0.01 f/cc. If the criteria is not met the Contractor will conduct corrective actions, as necessary. This does not include personnel air samples, which will be collected by abatement contractor.

B. Air samples collected by Environmental Consultants will be analyzed by an accredited laboratory accredited, or by a NIOSH equivalent trained microscopist on-site. Results of each analysis shall be submitted to the Owner Representative for the record. Copies of the analysis results shall also be made available to the Owner, Contractor and the Owner's Representative upon request.

## 3.13 WORK STOPPAGE

A. The Owner's Representative has the authority to stop the abatement work under the provisions of the General Conditions of this contract at any time he/she determines either personally or through the services of the air sampling professional that conditions are not in compliance with the specifications and applicable regulations. The stoppage of work shall continue until conditions have been corrected and corrective steps have been taken to the satisfaction of the Owner's Representative. Standby time required to resolve violations shall be at the Contractor's expense.

## 3.14 CLEANUP PROCEDURE

A. Remove and containerize all visible accumulations of asbestos containing material and asbestos contaminated debris utilizing rubber dust pans and rubber squeegees to move material around. Do not use metal shovels to pick up or move accumulated waste. Special care shall be taken to minimize damage to floor containment sheeting, when present.

B. Wet clean all surfaces in the regulated area using rags, mops and sponges as appropriate. (Note: Some HEPA vacuums might not be wet-dry vacuums.)

C. Prior to removing the inner layer of plastic sheeting, the sheeting shall be sprayed with an encapsulant so that any residue remaining will be adhered to the plastic sheeting.

D. Remove the cleaned inner layer of plastic sheeting from walls and floors. Windows, doors, HVAC system vents and all other openings shall remain sealed. The negative pressure ventilation units shall remain in continuous operation. Decontamination enclosure systems shall remain in place and be utilized.

E. Remove all containerized waste from the regulated area and waste container pass-out airlock. Decontaminate all tools and equipment and remove at the appropriate time in the cleaning sequence.

F. The Owner's Representative and the Contractor shall inspect the regulated area for visible residue. If any accumulation of residue is observed, it will be assumed to be asbestos and the cleaning cycle shall be repeated.

## 3.15 CLEARANCE TESTING

Asbestos abatement activities will be cleared by air sampling and analysis by Phased Contrast Microscopy (PCM – NIOSH Method 7400) or by Transmission Electron Microscopy (TEM).

If requested by Owner, final air clearance sampling will be performed in accordance with NIOSH Method 7400 (Phased Contrast Microscopy (PCM)). Decontamination of the work site is complete when each sample analyzed reveals airborne asbestos fiber concentrations are at or below 0.010 f/cc or 70 structures per square millimeter by AHERA TEM.

If these conditions are not met, then the decontamination is incomplete, and the cleaning procedures noted in above shall be repeated. The area shall be re-tested at no additional cost to Owner until satisfactory levels are obtained.

## 3.16 REESTABLISHMENT OF THE WORK AREAS

A. Reestablishment of the work area shall only occur following the completion of clean-up procedures and after clearance air monitoring has been performed and documented to the satisfaction of the Owner Representative or Environmental Consultant.

B. Contractor and Owner Representative or Environmental Consultant shall visually inspect the work area for any remaining visible residue. Evidence of contamination will necessitate additional cleaning and air monitoring requirements at no additional cost to Owner, until approved by Environmental Consultant.

C. Upon approval by Owner Representative or Environmental Consultant, the Contractor shall remove remaining fire-retardant polyethylene sheeting, critical barriers, and decontamination unit.

D. Repair all areas of damage that occurred as a result of abatement activities at no additional cost to Owner, unless other arrangements and written approval have been provided by the Owner.

## 3.17 DISPOSAL PROCEDURES

A. As the work progresses, to prevent exceeding available storage capacity on site, sealed and labeled containers of asbestos-containing waste shall be removed and transported directly to the prearranged disposal location, which must be an authorized site in accordance with regulatory requirements of NESHAP and other local authorities. Use of intermediate storage locations is not an accepted disposal procedure. Mark vehicles used to transport asbestos-containing waste in accordance with Federal, State, and local regulations. All waste containers will be supplied by the Contractor. There shall be no evidence of liquid leakage from the containers at any time.

B. The Contractor shall provide documentation in the form of a transportation and disposal manifest that will provide a chain-of-custody record of all asbestos-containing waste from project site to the disposal site. All asbestos-containing waste generated must be accounted for by these records and copies of all such records shall be delivered to the designated Owner Representative. Shipping papers and/or manifests will be signed by the designated Owner Representative who will be provided copies of all disposal records.

C. As necessary, obtain EPA Hazardous Waste Generator ID number from the Owner.

D. Transportation to the Landfill:

1. Contractor shall provide an enclosed lockable waste container, consisting of a truck, trailer or dumpster, for storage and transportation of waste. The waste container shall be locked while unattended and during transportation of waste. Once bags have been removed from the regulated area, they shall be loaded directly into the waste container for transportation.

2. The waste container shall be free of debris and lined with six (6) mil polyethylene sheeting to prevent contamination from leaking or spilled containers. Floor sheeting shall be installed first and extend up the side walls. Wall sheeting shall be overlapped and taped into place.

3. Drums shall be placed on level surfaces in the waste container and packed tightly together to prevent shifting and tipping. Large components shall be secured to prevent shifting and bags placed on top. Do not throw containers into waste container.

4. Personnel loading asbestos containing waste shall be protected by disposable clothing including head, body and foot protection and at a minimum, half-facepiece, air-purifying, dual cartridge respirators equipped with HEPA filters.

5. Any debris or residue observed on containers or surfaces outside of the regulated area resulting from cleanup or disposal activities shall be immediately cleaned up using HEPA filtered vacuum equipment and/or wet methods.

6. Following the removal of all containerized waste, the truck cargo area shall be decontaminated using HEPA vacuums and wet methods to meet the no visible residue criteria. Polyethylene sheeting shall be removed and discarded along with contaminated cleaning materials and protective clothing in bags or drums at the disposal site.

## 3.18 OSHA PERSONNEL AIR MONITORING

A. Air monitoring required by OSHA is the responsibility of the contractor. The contractor is responsible for providing daily OSHA compliance monitoring as per 29 CFR 1926.1101, 8 CCR 1529 for asbestos.

1. At minimum, Contractor shall conduct representative (25% of crew) breathing zone personal air monitoring of its employees twice each shift (asbestos only) and repeated daily or until a "negative exposure assessment", as derived in accordance with 29 CFR 1926.1101 (f)(2)(iii) and 8 CCR 1529 for asbestos.

2. Monitoring shall be conducted by a qualified air professional experienced and knowledgeable about the methods of air monitoring and in accordance with 29 CFR 1926.1101, 8 CCR 1529.

3. Monitoring results and appropriate laboratory analysis work shall be submitted to Owner and Project Environmental Consultant within 24 hours of when the samples were collected.

## 3.19 ALTERNATIVE PROCEDURES

A. If specified procedures cannot be utilized, a request shall be made in writing to the designated Owner Representative providing details of the problem encountered and recommended alternatives.

B. Alternative procedures shall provide equivalent or greater protection than procedures that are replaced.

C Any alternative procedure must be approved in writing by the Owner Representative prior to the implementation of the procedure.

END OF SECTION

**SECTION 02 83 33**

**REMOVAL AND DISPOSAL OF MATERIALS CONTAINING LEAD**
**Revision 00**

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## PART 1 GENERAL

### 1.01 SUMMARY AND SCOPE

A. Applicable provisions of Division 1 – General Requirements shall govern work under this section.

B. Perform all operations in connection with lead abatement, removal, clean-up and related work as shown on drawings, specific scopes of work, and/or specified herein.

C. Description of Work – This project involves removal and/or stabilization of LBPs; this specification is for removal or stabilization/encapsulation of the following materials:

| Building Component | Paint Color | Lead Conc. ($mg/cm^2$) | Comments |
|---|---|---|---|
| Metal vent pipe | White | 23.6 | There are three (3) metal vent pipes located on the roof of the Aquatic Center building. All 3 pipes are considered LBP. Intact condition at time of survey. |
| Metal tank | Gray | 1.6 | Located in the south-center chemical storage room. Intact condition at time of survey. |

It is the responsibility of the bidders to verify actual quantities of LBPs to be abated and/or stabilized in accordance with the scope of work for the project.

Although other painted surfaces tested did not meet the criteria for LBP, concentrations of lead were detected in these other materials. Title 8 CCR 1532.1 (Cal/DOSH Lead) may require workers that perform either manual demolition or manual scraping or sanding of painted surfaces to undergo an exposure assessment including air monitoring of the breathing zone and be properly trained and protected per the Cal/DOSH lead regulation. Contractor shall be responsible for monitoring of worker exposure to lead during disturbance of painted and ceramic surfaces.

D. Special Precautions: Coordinate with the CNUSD Representative for the shutdown and isolation of all electrical circuits and air movement systems within the regulated area.

E. Special Circumstances: Emergency response may be necessary during non-working hours requiring Contractor personnel to be on-site within 3 hours of notification (e.g., due to weather, vandalism, burglary, etc.).

F. Restoration: Not Applicable.

G. Related work specified elsewhere (enclosed):

| Section Title | Section Number |
|---|---|
| Removal and Disposal of Asbestos Materials | 02 82 13 |

### 1.02 REFERENCES

D. General Reference:

All work under this contract shall be done in accordance with all applicable Federal, State, and local regulations, standards and codes governing asbestos abatement and any other trade work done

in conjunction with the abatement. The most recent edition of any relevant regulation in force at the time of bid opening shall be in effect. Where conflict among the laws, rules, regulations, or with these specifications exists, the most stringent requirements shall be utilized.

B. Specific References:

Occupational Safety and Health Administration (OSHA) Title 29 Code of Federal Regulations (CFR):

1910.134 – Respiratory Protection.
1926.59 - Hazard Communication Standard; Construction Industry
1926.62 – Lead; Construction Industry

Environmental Protection Agency (EPA) Title 40 Code of Federal Regulations (CFR) Part 745 -- Lead-Based Paint Poisoning Prevention in Certain Residential Structures.

California Division of Occupational Safety and Health (Cal/DOSH):

8 CCR 5144 – Respiratory Protection Standard
8 CCR 1532.1 – Lead
22 CCR Division 4.5, Environmental Health Standards for the Management of Hazardous Waste

Housing and Urban Development (HUD) Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing.

## 1.03 QUALIFICATIONS

A. The prospective Contractor shall submit to Owner Representative the data hereinafter requested within ten (10) business days after Bid Opening.

B. The Contractor shall, if requested:

1. Demonstrate prior experience on lead abatement projects of similar nature and scope of that being bid, through the submission of letters of reference from building owners including the name, address, and telephone numbers of the contact persons who are specifically familiar with the referenced projects. At least three previous users of this service shall be submitted. Include descriptions of projects and records of all air monitoring data that was generated during the projects.

2. Submit a description of all major Lead Abatement Equipment owned by the prospective Contractor which is available for use on this project such as respiratory protection equipment, HEPA vacuum equipment dedicated to lead abatement, negative air pressure equipment dedicated to lead abatement, spray equipment for amended water and other coatings, equipment used for shower facilities in decontamination enclosure system.

C. Submit a list of names, work responsibilities and evidence of certification for all employees that will be assigned to this project including:

1. All removal and disturbance of LBPs and lead-containing materials shall be performed by a state-licensed contractor, using California Department of Public Health (CDPH) certified workers with at least one CDPH-certified Supervisor. All removal and disturbance of lead-containing materials (not meeting the definition of lead-based) as defined in 8 CCR 1532.1, shall be performed by a state-licensed contractor, using lead-trained workers with

certification of training meeting the requirements of 8 CCR 1532.1. Abatement contractor's workforce shall be supervised by experienced persons trained, knowledgeable and qualified in the techniques of lead abatement, handling and disposal

D. The Contractor must be licensed by the California State Contractors License Board for activities necessary to complete the projects described in this specification.

## 1.04 DEFINITIONS

ACGIH:
American Conference of Governmental Industrial Hygienists

AIHA: American Industrial Hygiene Association

Air Monitoring:
The process of measuring lead concentration of a known volume of air collected during a specific period of time shall conform to the requirements of OSHA Standard 29 CFR 1926.62 or 8 CCR 1532.1.

Air Sampling Professional:
The Professional contracted or employed by Owner to supervise and conduct air monitoring and analysis schemes. This individual shall not be affiliated in any way other than through this contact with the Contractor performing the abatement work.

ANSI: American National Standards Institute

ASTM:
American Society for Testing and Materials (now ASTM International)

Authorized Visitor:
The Building Owner (and designated representatives) and any representative of a regulatory agency having jurisdiction over the project.

California Department of Public Health (CDPH):
Certification agency for lead abatement workers, supervisors, inspector/assessors, project monitors and sampling technicians. Lead workers and supervisors must hold current certifications with this agency. CDPH is also the enforcement agency for lead abatement in child-occupied structures.

California Division of Occupational Safety and Health (Cal/DOSH):
The Occupational Safety and Health Enforcement Section aka Cal DOSH or Cal/OSHA which is a part of the California Division of Industrial Relations.

Certified Industrial Hygienist (CIH):
An industrial hygienist certified in Comprehensive Practice by the American Board of Industrial Hygiene.

Competent Person:
Means one who is capable of identifying existing lead hazards in the workplace and who has the authority to take prompt corrective measures to eliminate them.

Consultant:

Means the person, persons, and/or company contracted by the Owner to provide third party oversight of the project described in these specifications. The Consultant shall have no business relationship with the Contractor.

Contractor:

Means the person, persons, and/or company contracted by the Owner to provide the services specified herein.

Decontamination Enclosure:

A decontamination system consisting of a clean room, a shower room, and an equipment room separated from each other and from the regulated area by airlocks. This system is used for all workers to enter and exit the regulated area and may also serve as equipment and waste pass out on small jobs.

Encapsulation:

The application of a bridging or penetrating liquid material to asbestos containing materials to control the release of lead dust into the air. The bridging liquid material creates a membrane over the surface and the penetrating liquid material seeps through the surface and binds all components together.

Enclosure:

The construction of an airtight, impermeable, permanent barrier around asbestos containing material to control the release of lead dust into the air.

EPA: U. S. Environmental Protection Agency

HEPA Filter:

A high efficiency particulate air filter capable of removing particles 0.3 microns in diameter with 99.97% efficiency.

HEPA Vacuum:

A vacuum system equipped with HEPA filtration.

Lead-Based Paint:

Paint or other surface coatings that contain lead equal to or in excess of 1.0 milligrams per square centimeter or more than 5,000 parts per million.

Lead Containing Material (LCM):

Material containing lead of any type and in any amount greater than the detection limit of the analytical method.

Lead Containing Waste Material:

Lead containing material or lead contaminated materials requiring disposal in an EPA approved landfill.

OSHA:

The Occupational Safety and Health Administration; may also be referenced instead of Cal/DOSH or Cal/OSHA equivalent regulations.

Owner:

Means the owner of the properties in which the activities described in these specifications are to be performed for. The Owner will also be the employer of the personnel working in the affected building.

(designated) Owner Representative:

Means the person, persons, or company who monitors the work specified in this document with the Owner's interests as a priority. Compliance with these specifications will be monitored by the Owner's Representative. The Consultant and the Owner's Representative will be the same unless otherwise specified.

Permissible Exposure Limits (PELs):

No personnel associated with lead abatement work shall be exposed to an airborne concentration of lead in excess of the following limits, as determined by the method prescribed in OSHA 29 CFR 1926.62, and 8 CCR 1532.1 or by an equivalent method:

PEL. is 50 micrograms per cubic meter (μg/$M^3$) of air as an eight (8) hour time-weighted average (TWA).

Action Level is 30 μg/$M^3$ as an eight (8) - hour TWA.

Regulated Area:

An area identified by specific boundaries where airborne concentrations of asbestos exceed, or can reasonably be expected to exceed, the PEL and/or Excursion Limit. The regulated area may take the form of a temporary negative-pressure enclosure, or an area specifically identified and segregated in any manner that minimizes the number of employees exposed to lead dust.

Soluble Threshold Limit Concentration (STLC):

Laboratory test to be conducted on waste to determine if it meets the definition of hazardous waste.

South Coast Air Quality Management District (SCAQMD):

The SCAQMD is the local enforcement and notification agency within Orange, and populated portions of Los Angeles, San Bernardino and Riverside Counties in the State of California.

Surfactant:

A chemical wetting agent added to water to improve penetration.

Toxicity Characteristic Leaching Procedure (TCLP):

Laboratory test to be conducted on waste to determine if it meets the definition of hazardous waste.

Total Threshold Limit Concentration (TTLC):

Laboratory test to be conducted on waste to determine if it meets the definition of hazardous waste.

Visible Emissions:

Any emissions containing particulate material that is visually detectable without the aid of instruments. This does not include condensed uncombined water vapor.

Wet Cleaning:

The process of eliminating asbestos contamination from building surfaces and objects by using cloths, mops, or other cleaning utensils which have been dampened with water and afterwards thoroughly decontaminated or disposed of as lead contaminated waste.

## 1.05 SUBMITTALS AND NOTICES

A. No later than 10 days prior to commencement of work, Contractor shall submit in electronic format or PDF files to the Owner Representative and/or Consultant documentation that includes, without limitation, the following:

1. Current Copies of licenses and registrations required by Article 1.05 Required Licensure (include copies of subcontractor's licenses).

2. Notify the Cal/DOSH at least 24 hours prior to commencement of any lead-related work, per the requirements of 8 CCR 1532.1.

3. Current proof of insurance coverage required by Article 1.10 Insurance Requirements (include proof of insurance for subcontractors).

4. Current proof that required permits, site location and arrangements for transport and disposal of asbestos materials have been made.

5. Current proof of legal right to use patented equipment or processes.

6. Current Manufacturer's certification that HEPA vacuums, differential pressure air filtration devices and other local exhaust ventilation equipment conform to ANSI Z9.2-79 and have been permitted by the SCAQMD.

7. Current documentation showing that Contractor's employees, including foreman, supervisor, and any other company personnel or agents who may be exposed to lead or who may be responsible for any aspects of lead abatement activities, have received training as required by 29 CFR 1926.1101 and 8 CCR 1529.

8. Current documentation from Physician (signed by an M.D.) showing that all employees or agents who may be exposed to lead dust in excess of background levels have received medical monitoring to determine whether they are physically capable of working while wearing the respirator required without suffering adverse health effects. The Contractor must be aware of and provide information to the examining physician about unusual conditions in the workplace environment (e.g. high temperatures, humidity, chemical contaminants) that may impact on the employee's ability to perform work activities.

   Evidence of blood lead level testing of workers assigned to the project as well as medical clearance for the work to be performed and clearance to don respirators including fit testing records.

9. Current documentation of respirator fit-testing for all Contractor employees and agents who must enter the work area. This fit-testing shall be conducted annually and in accordance with procedures as required by 29 CFR 1910.134 and 8 CCR 5144.

14. An emergency preparedness plan as required by Article 1.07 - Emergency Planning.

15. Master schedule, showing phasing, number of shifts, time for air clearances, tear down and manpower loading to be utilized for the duration of the project.

16. A site-specific work plan based on scope of work. Include a diagram showing containment set-up, decontamination unit(s), locations of negative air machines and exhaust placement.

17. The name, address and telephone number of the transporter and disposal facility must be provided to the Owner.

B. During abatement activities, Contractor shall submit to the Owner Representative and/or Consultant documentation that includes, without limitation, the following:

1. Copies of the work area entry/exit log book. Log book must record name, affiliation, time in, and time out for each entry into the work area.

2. Copies of logs documenting filter changes on respirators, HEPA vacuums, differential pressure air filtration devices, water filtration device, and other engineering controls.

3. Copies of Safety Data Sheets (SDS) for solvents, encapsulants, wetting agents, replacement materials, and other substances brought by Contractor to the Project Site. SDSs shall be available the first day that subject materials/substances are present on the project site.

4. Results of all required Cal/DOSH compliance air monitoring. Results shall be available prior to the start of the following shift and within 24 to 48 hours of completion of the last shift.

5. Copies of all accident/incident reports where injury or damage has occurred on or to the Owner's property.

6. Copies of daily work logs indicating location(s) worked, type of materials removed, quantity of materials removed and number of personnel conducting the aforementioned activities.

7. Contractor shall provide unit costs for the preparation of regulated work areas, abatement, waste storage and disposal for lead encountered during abatement and or renovation of the buildings located at the property. Rates for labor of appropriately trained workers, supervisors and management shall be included in the listing of unit rates.

8. Copies of all transport manifests, trip tickets and disposal receipts for all lead waste materials removed from the work area shall be provided. Copies shall be emailed to the following individual(s):

Ms. Jacquelyn Roberts
Construction Director – Facilities Division
Corona-Norco Unified School District
2820 Clark Avenue
Norco, California 92860
Jacquelyn.Roberts@cnusd.k12.ca.us

9. A Close out Report will be generated by the Environmental Consultant at the conclusion of the abatement activities. Documents referenced in the section shall be provided to the Environmental Consultant for inclusion in the Close out Report.

C. For any new lead abatement employee hired, who has not been previously reported, complete data must be submitted, consisting of: experience, certification, assigned job responsibilities, respirator test fitting, physicians determination of employee's ability to work while wearing respirator and evidence of medical monitoring (blood lead).

## 1.06 SITE SECURITY

A. Contractor shall be responsible for the security of the regulated area(s) during abatement operations in order to protect work efforts and Owner equipment. Contractor will also be responsible for the security of all their equipment and materials on the job site.

B. The regulated area shall be restricted to only authorized, trained, and protected personnel. These may include the Contractor's employees, employees of subcontractors, State representatives, and any other designated individuals. A list of authorized personnel shall be established prior to job start and posted in the clean room of the decontamination facility. A log book shall be maintained in the clean room area of the decontamination system. Anyone who enters the regulated area must record name, affiliation, time in, and time out for each entry.

C. Contractor shall assure any unauthorized individual entering the regulated area is decontaminated (if required), evict them, and notify the Owner Representative of the actions taken and the identity of the unauthorized individual.

D. Access to the regulated area shall be through a single decontamination system. All other means of access (doors, windows, hallways, etc.) shall be blocked or locked so as to prevent entry to or exit from the regulated area. The only exceptions to this rule are the waste pass-out air lock which shall be sealed except during the removal of containerized asbestos waste from the regulated area, and emergency exits in case of fire or accident. Emergency exits shall not be locked from the inside. However, they shall be sealed with polyethylene sheeting and tape until needed.

## 1.07 EMERGENCY PLANNING

A. Emergency procedures shall be in written form and prominently posted in the clean change area and equipment room of the worker decontamination area. Everyone prior to entering the regulated area must read and sign these procedures to acknowledge receipt and understanding of work site layout, location of emergency exits and emergency procedures.

B. Contractor employees shall be trained in evacuation procedures in the event of workplace emergencies under the following conditions:

1. For non-life-threatening situations, employees injured or otherwise incapacitated shall decontaminate following normal procedures with assistance from fellow workers, if necessary, before exiting the workplace to obtain proper medical treatment.

2. For life-threatening injury or illness, worker decontamination shall take least priority; after measures to stabilize the injured worker, remove the worker from the workplace and secure proper medical treatment.

C. Telephone numbers of all emergency response personnel shall be prominently posted in the clean change area and equipment room along with the location of the nearest telephone.

D. Exit routes should be clearly identified in the containment.

E. Procedures to prevent and treat heat stress must be posted in the clean room area. Workers shall be provided easy access to drinking water outside of the regulated area(s) and encouraged to drink frequently.

## 1.08 MEETINGS

A. Refer to Division 1 and CNUSD and/or General Contractor Subcontractor Agreements.

## 1.09 DELIVERY, STORAGE, AND HANDLING

A. Refer to Division 1 and CNUSD and/or General Contractor Subcontractor Agreements.

## 1.10 INSURANCE REQUIREMENTS

A. Refer to Division 1 and CNUSD and General Contractor insurance requirements.

## 1.11 BONDING REQUIREMENTS

A. Refer to Division 1 and CNUSD and General Contractor Subcontractor Agreements.

## 1.12 PROJECT SCHEDULE

A. Project Start Date: Refer to CNUSD or General Contractor's Instructions to Bidders and Published Project Schedule. Multiple notices to regulatory agencies and mobilizations will be required, as the project is phased.

# PART 2 PRODUCTS

## 2.01 MATERIALS

A. Polyethylene sheeting for all uses shall be a minimum of six (6) mil thickness. Widths will be selected to minimize the frequency of joints. All plastic, spray-on strippable coatings and structural materials shall be UL-certified as fire-retardant or non-combustible.

B. Deliver all materials in the original packages, containers, or bundles bearing the name of the manufacturer and brand name (where applicable).

C. Polyethylene sheeting utilized for decontamination enclosure shall be opaque white or black in color and 6-mil in thickness.

D. Disposal bags shall be of six (6) mil polyethylene, clear bags.

E. Metal disposal bins shall be used for the storage of asbestos-containing waste materials. Bins shall be lined in plastic sheeting affixed with spray glue and tape at walls, floor and ceiling of the bin. As an alternate, disposal drums for transporting disposal bags may be used. Drums shall be metal, 55-gallon DOT A1A (DOT 17H) with locking ring tops and will meet the requirements of 49 CFR 172 – 178. Stick-on labels as per EPA and 8 CCR 1529 (k) (8) requirements shall be provided for the disposal drums.

F. Surfactant (Wetting Agent) for Amended Water:

1. For wetting all materials containing lead, it shall consist of soapy water mixed in a proportion of two (2) fluid ounces of liquid soap to five (5) gallons of water.

2. Where regulated area temperature may cause freezing of the amended water solution, the addition of ethylene glycol in amounts sufficient to prevent freezing is permitted.

G. Encapsulating Material: Bridging type encapsulant (for sealing masonry and concrete walls, barrier surfaces during cleanup phase and lead containing surfaces to remain in place) shall be capable of being applied with airless spray equipment, able to withstand light impact or abrasion without releasing fibers, and be water insoluble when cured, and must retain sufficient integrity after six (6) years to allow recoating.

H. Durable exterior coating over stabilized LBP: The coating to be used will be designated by Owner Representative.

I. All caustics shall be properly labeled and containerized in lead-tight containers.

The following procedures and equipment may not be applicable to the lead abatement required for the particular project but are included for completeness. The removal/abatement of lead-containing ceramic tiles, as necessary, would comply with Section M below.

J. Chemical Stripping Removers (**Alternative**) - Chemical removers shall contain no methylene chloride products. Chemical removers shall be compatible with and not harmful to the substrate to which they are applied. Chemical removers used on masonry surfaces shall contain anti-stain formulation that inhibits discoloration of stone, granite, brick and other masonry construction. Chemical removers used on interior surfaces shall not raise or discolor the surface being abated.

K. Chemical Stripping Agent Neutralizer (**Alternative**) - Chemical stripping agent neutralizers may be used on exterior surfaces only. Neutralizers shall be compatible with and not harmful to the substrate that they are applied to. Neutralizers shall be compatible with the stripping agent that has been applied to the surface substrate.

L. Paint Blasting Materials (**Alternative**) – Blasting materials shall not create respirable crystalline silica dust. The blasting debris will be considered hazardous waste for lead. The building must be encased/enclosed in a manner that does not allow visible dust from the building exterior during blasting.

M. Component removal (**Alternative**) – Building Components coated with LBP (or lead containing glaze) can be removed from the regulated area, wrapped in 6-mil plastic sheeting, or placed in 6-mil plastic bags. Provision must be made with Owner Representative and Consultant for replacement of the component, as necessary.

## 2.02 EQUIPMENT

A. Negative Pressure Ventilation Units (Use as applicable):

1. A sufficient quantity of negative pressure ventilation units equipped with HEPA filtration and operated in accordance with ANSI and EPA guidance documents. They shall be utilized so as to provide one workplace air change every 15 minutes.

   To calculate total air flow requirement:

$$\text{Total Ft}^3\text{/Min.} = \frac{\text{Volume of Regulated area (in Ft}^3\text{)}}{\text{15 Min.}}$$

To calculate the number of units needed for the abatement:

$$\text{Number of Units Needed} = \frac{\text{Total Ft}^3\text{/Min.}}{0.75(\text{Capacity of Unit in Ft}^3\text{/Min.})}$$

2. The air filtering equipment shall be capable of filtering lead particles at 99.97 percent efficiency. Pre-filters, which protect the final filter by removing the larger particles, are required to prolong the operating life of the HEPA filter. Two stages of pre-filtration are required. The first-stage pre-filter shall be a low efficiency type (e.g., for particles 10 um and larger). The second-stage (or intermediate) filter shall have a medium efficiency (e.g., effective for particles down to 5 um). Pre-filters and intermediate filters shall be installed either on or in the intake grid of the unit and held in place with special housings or clamps.

3. The exhaust air for the air filtering devices used to maintain negative pressure in the contained regulated area(s) shall be directed outdoors to an area where unprotected personnel are not present.

4. The regulated area shall be maintained at a negative pressure of 0.02 inches of water (head). The ventilation shall operate on a 24-hour basis throughout the abatement process until final clearance has been approved.

B. Air Purifying Respirators: Respirator bodies shall be of half face or full-face type with removable cartridges. Single use, disposable or quarter face respirators shall not be used. Full face respirators shall be equipped with a nose cup or other anti-fogging devices as would be appropriate for use in air temperatures less than 32 degrees F. Filter cartridges shall, at a minimum, be HEPA type filters certified by NIOSH under 30 CFR Part 11 or with filters certified for particulates under 42 CFR Part 84 (e.g., P100).

C. Full body disposable protective clothing, including head, body and foot coverings consisting of material impenetrable by asbestos fibers (Tyvek® or equivalent) shall be provided to all workers and authorized visitors in sizes adequate to accommodate movement without tearing.

1. Full body disposable protective clothing as described above shall be provided to authorized visitors in sizes adequate to accommodate movement without tearing on request.

D. Additional safety equipment (as necessary), such as hard hats, eye protection, safety shoes, disposable gloves meeting the requirements of current ANSI Standards shall be provided to all workers and authorized visitors. Nonskid footwear shall be provided to all abatement workers. Disposable clothing shall be adequately sealed to the footwear and gloves to prevent body contamination.

E. Provide sufficient supply of disposable mops, rags and sponges for work area decontamination. Rubber dust pans and rubber squeegees shall be provided for cleanup.

F. Provide scaffolds, ladders, lifts and hand tools such as scrapers, wire cutters, brushes, utility knives, and wire saws, as the work requires. Brushes utilized for removing loose asbestos containing material shall have nylon or fiber bristles, not metal.

1. Contractor must have in place a valid Fall Protection Plan, in compliance with Cal/DOSH requirements, to be reviewed and approved by the Owner Representative.

G. Sprayers shall have pumps capable of providing 14-15 pounds per square inch (psi) at the nozzle tip at a flow rate of 2 gallons per minute for spraying amended water.

H. A sufficient supply of HEPA filtered vacuum systems shall be available during cleanup.

I. Airless spray equipment with an adjustable low-pressure nozzle shall be provided for spraying encapsulants. Nozzle tip size and pressure adjustment shall conform to encapsulant manufacturer's written recommendations.

J. Machine Sanding Equipment - Sanders shall be of the dual action, rotary action, orbital or straight-line system type, fitted with a high efficiency particulate air (HEPA) dust pick-up system. Air compressors utilized to operate this equipment shall be designed to continuously provide 90 to 110 p.s.i. or as recommended by the manufacturer.

K. Heat Blower Gun Equipment - Electrically operated, heat- blower gun shall be a flameless electrical paint softener type. Heat blower shall have electronically controlled temperature settings to allow usage below a temperature of 1,100 degrees Fahrenheit. Heat blower shall be DI type (non-grounded) 120 V, AC application. Heat blower shall be equipped with various nozzles to cover all common applications (cone, fan, glass protector, spoon reflector, etc.).

L. Heavy duty power cables for temporary electrical service and a portable electric generator for maintaining negative pressure in the work area in case of power failure.

M. Warning Signs and Labels: As required OSHA Regulation 29 CFR 1926.629(m) and 8 CCR 1532.1.

N. Other equipment the Contractor deems necessary for lead work shall be submitted to the Owner Representative and/or Consultant for approval prior to their use.

## PART 3 EXECUTION

### 3.01 GENERAL COMPLIANCE MEASURES

A. Mandatory Protection Conditions: Contractor's employees shall wear appropriate respiratory protection and protective clothing under the following conditions:

1. During installation or implementation of engineering work practices and control measures.

2. During maintenance and repair activities for which control measures, hereinafter described, are not feasible.

3. Whenever the control measures are not yet sufficient to reduce exposure below the Permissible Exposure Limits (TWA and/or Excursion Limits).

4. Whenever emergency conditions exist.

B. Control Measures: The Contractor shall use one or any combination of the following control methods to achieve compliance with the "Permissible Exposure Limits" defined herein:

1. Local exhaust ventilation equipped with HEPA filter dust collection systems (ref. 2.02).

2. General dilution ventilation equipped with HEPA filtration systems on both exhaust and return air (ref. 2.02).

3. Vacuum cleaners equipped with HEPA filters (ref. 2.02).

4. Enclosure or isolation of processes producing airborne lead dust.

5. Use of wet methods, wetting agents or removal encapsulants to control employee exposures during their performance of asbestos abatement activities.

6. Prompt clean up and disposal of wastes contaminated with lead in leak-tight containers.

C. Supplement to Control Measures: Whenever the control measures described above are not sufficient to reduce the employee exposure to or below the "Permissible Exposure Limits" (TWA and/or Excursion Limit), the Contractor shall continue to use the control measures to maintain the employee exposure to the lowest levels attainable and supplement them with the use of appropriate respiratory protection and protective clothing.

E. Negative-Pressure Enclosure: A negative-pressure enclosure shall be employed whenever feasible, prior to commencing removal, demolition and renovation operations involving lead containing materials. The negative air machines (ref. 2.02) should be ducted outdoors, especially if the space outside the containment is occupied. This will prevent the indoor spread of contamination if the negative air machine malfunctions or other chemicals are used in the containment (not recommended) which would not be filtered by the machines. If the area of work outside is dusty, then a square hole may be cut in the containment and fitted with a pleated residential air filter (Minimum Efficiency Reporting Value [MERV] 11 or better) to filter the make-up air. The entry to the containment should be well sealed to prevent the entry of unfiltered outside air.

E. Types of Respiratory Protection: The following Table represents the minimum respiratory protection required for given airborne concentrations of lead:

| Airborne Concentration of Lead milligrams per cubic meter ($mg/M^3$) | Required Respirator |
|---|---|
| Not in excess of 0.50 $mg/M^3$ (10x PEL) | Half-mask air purifying respirator equipped with high-efficiency filters. |
| Not in excess of 2.50 $mg/M^3$ (50x PEL) | Full faceplate air purifying respirator equipped with high-efficiency filters. |
| Not in excess of 5.00 $mg/M^3$ (100x PEL) | 1. Any powered air purifying respirator equipped with high efficiency filters.<br>2. Any supplied air respirator operated in continuous flow mode. |
| Not in excess of 50.0 $mg/M^3$ (1000x PEL) | Full face piece supplied air respirator operated in pressure demand mode. |
| Greater than 50.0 $mg/M^3$ (1,000x PEL) or unknown concentration | Full face piece supplied air respirator operated in pressure demand mode equipped with an auxiliary positive pressure self-contained breathing apparatus. |

NOTE: Respirators assigned for higher environmental concentrations may be used at lower concentrations. A high-efficiency filter means a filter that is at least 99.97 percent efficient against mono-dispersed particles of 0.3 micrometers in diameter or larger.

F. Respirator use during initial air monitoring must be selected per the requirements outlined in 29 CFR 1926.62(d)(2) or State equivalent.

## 3.02 LBP AND SURFACE COATING IMPACTS

This section applies to the removal of LBPs and/or the demolition of components coated with LBP.

See Item L below for the use of mini-containments for spot abatement.

A. Post warning signs meeting the specifications of 8 CCR 1532.1 and 29 CFR 1926.62 at any location and approaches to a location where airborne concentrations of lead dust may exceed ambient background levels. Signs shall be posted at a distance sufficiently far enough away from a work area to permit a person to read the sign and take necessary protective measures to avoid exposure. Barrier tape shall be utilized in conjunction with signs for exterior removal activities, to delineate the extent of regulated work areas.

B. Prepare appropriate fall protection systems in accordance with the requirements of Title 8 California Code of Regulations, Sections 1669, 1670, 1724 and anchoring guidance from Title 8 California Code of Regulations, Section 3283 (where applicable).

C. Install worker decontamination unit described in Article 3.05 or as agreed upon with Project Environmental Consultant.

D. Lead-containing material handlers involved in removal procedures shall wear disposable Tyvek suits, including gloves, hood, and footwear. Minimum respiratory protective equipment shall be half-face air-purifying respirators equipped with P100 filters.

1. For exterior lead work, it is recommended that workers wear two (2) disposable Tyvek suits. Upon exiting the work area, the handlers shall HEPA vacuum all visible debris from

the outer suit, dispose of it as lead-contaminated waste, and proceed through the decontamination unit for full decontamination.

E. Isolate work area by installing critical barriers or curtained doorways across all openings where airborne lead dust migration may cause secondary lead contamination (for work where components will be removed relatively intact, such as doors, downspouts, and wood trim, drop cloths will suffice). Establish regulated areas with delineators, barrier tape and lead signage for exterior work areas.

F. Cover floors in each work area with fire retardant polyethylene sheeting (do not cover floors where flooring finishes, such as ceramic flooring, for example, are to be removed).

1. A single layer of six-mil (minimum) sheeting.

2. Containment plastic shall be sized to minimize seams.

3. Where multiple layers of floor poly are utilized, sheeting shall be installed in a fashion so as to prevent slippage between successive layers of material.

G. Cover all immovable items and/or construct walls in the Work Area with fire retardant polyethylene sheeting. Walls that will be demolished do not necessarily need protection (check with Project Environmental Consultant).

1. Walls shall be covered with six-mil fire-retardant polyethylene sheeting (sealed airtight with duct tape).

2. Plastic shall be sized to minimize seams.

3. Wall sheeting shall overlap floor sheeting by at least 12 inches beyond the wall/floor joint to provide a better seal for negative pressure.

4. Wall sheeting shall be secured adequately to prevent it from falling away from the walls. This may require additional support/attachment when Negative Pressure Ventilation Systems area utilized.

5. Fire exits shall be clearly labeled with red tape or equivalent.

H. Where manual demolition is employed for lead removal, periodically mist the work area and materials to be impacted to maintain a wet condition and avoid the creation of airborne dust, which may carry lead.

I. The Contractor shall carry out all impacts to LBPs in a manner that will minimize pulverizing, breaking, abrading, or in any other way impacting lead-containing paints and generating airborne lead-containing dust.

J. Once all removal activities have been completed, clean-up of the work areas shall be conducted in accordance with Article 3.13 – Cleanup Procedure.

K. Dispose of all lead-containing/contaminated waste in accordance with Article 3.15 - Disposal Procedures.

L. In the event small areas of lead require abatement, the following procedures shall be used for the set-up and use of ***Mini Containments***:

1. The mini containment shall be equipped with a HEPA filter equipped vacuum or a HEPA ventilation system to maintain negative pressure within the mini containment. Negative pressure must be maintained during the removal process.
2. All exposed LBPs within the mini containment must be encapsulated.
3. Tools and equipment used in the mini containment must be wet wiped until no visible residue remains. Wet wiped tools and equipment must be passed through the mini containment door in a sealed, leakproof container. The leakproof container must be opened only inside another mini containment or decontamination unit.
4. After the removal of the LBPs, encapsulation or enclosure is complete, the interior of the mini containment must be cleaned using HEPA filter equipped vacuuming, wet wiped, or both; and apply an encapsulant to the interior of the mini containment.
5. Before the mini containment is removed, a visual inspection of the interior and abated surfaces must be performed. If debris or material is still present, the interior of the mini containment must be recleaned.
6. Once the final visual inspection is completed, the mini containment can be removed by sealing the door and collapsing the containment using a HEPA filter equipped vacuum or tearing down the mini containment.

### 3.03 Surface Preparation - LBP Stabilization

Contractor shall be responsible to conduct stabilization as necessary and limit the amount of lead-containing dust generated. Damaged paint (loose, flaking or peeling, etc.) shall be stabilized in accordance with the following:

A. Post warning signs meeting the specifications of 8 CCR 1532.1 and 29 CFR 1926.62 at any location and approaches to a location where airborne concentrations of lead dust may exceed ambient background levels. Signs shall be posted at a distance sufficiently far enough away from a work area to permit a person to read the sign and take necessary protective measures to avoid exposure. Barrier tape shall be utilized in conjunction with signs for exterior removal activities, to delineate the extent of regulated work areas.

B. Prepare appropriate fall protection systems in accordance with the requirements of Title 8 California Code of Regulations, Sections 1669, 1670, 1724 and anchoring guidance from Title 8 California Code of Regulations, Section 3283 (where applicable).

C. Install worker decontamination unit described in Article 3.05 or as agreed upon with Environmental Consultant.

D. Abatement workers involved in stabilization procedures shall wear two disposable Tyvek suits, including gloves, hood and footwear. Minimum respiratory protective equipment shall be half-face air-purifying respirators equipped with P100 filters. Upon exiting the work area the handlers shall HEPA vacuum all visible debris from the outer suit, dispose of it as lead-contaminated waste, and proceed through the decontamination unit for full decontamination.

E. Isolate work area by installing critical barriers where airborne lead dust migration may cause secondary lead contamination (for work where components will be removed relatively intact, such as doors, downspouts, and wood trim, drop cloths will suffice). At a minimum, the work area will be delineated with the use of appropriately labeled barrier tape and signs. Plastic sheeting shall be placed out a minimum of five (5) feet from the component to be removed.

F. Cover adjacent areas, if appropriate, to each work area with fire retardant polyethylene sheeting.

1. A single layer of six-mil (minimum) sheeting.
2. Containment plastic shall be sized to minimize seams.
3. Where multiple layers of floor poly are utilized, sheeting shall be installed in a fashion so as to prevent slippage between successive layers of material.

G. Cover all immovable items and/or construct walls in the Work Area with fire retardant polyethylene sheeting. Walls that will be impacted do not necessarily need protection (check with Project Environmental Consultant).

1. Walls shall be covered with six-mil fire-retardant polyethylene sheeting (sealed airtight with duct tape).
2. Plastic shall be sized to minimize seams.
3. Wall sheeting shall overlap floor sheeting by at least 12 inches beyond the wall/floor joint to provide a better seal for negative pressure.
4. Wall sheeting shall be secured adequately to prevent it from falling away from the walls. This may require additional support/attachment when Negative Pressure Ventilation Systems area utilized.
5. Fire exits shall be clearly labeled with red tape or equivalent.

H. Prior to stabilization of LBP, correct substrate surfaces of defects as necessary. See Articles 3.04 and 3.10.

I. Paint stabilization activities must utilize wet scraping methods. HEPA vacuums shall be used to clean up small debris generated during lead paint stabilization activities. Do not allow dust and debris to accumulate.

J. Where manual demolition is employed for lead removal, periodically mist the work area and materials to be impacted to maintain a wet condition and avoid the creation of airborne dust, which may carry lead.

K. The Contractor shall carry out all impacts to LBPs in a manner that will minimize pulverizing, breaking, abrading, or in any other way impacting lead-containing paints and generating airborne lead-containing dust.

L. Once all removal activities have been completed, clean-up of the work areas shall be conducted in accordance with Article 3.13, Cleanup Procedure.

M. Dispose of all lead-containing/contaminated waste in accordance with Article 3.15, Disposal Procedures.

### 3.04 Repair of LBP Substrates

Contractor shall be responsible to conduct stabilization as necessary and limit the amount of lead-containing dust generated. Damaged paint (loose, flaking or peeling, etc.) shall be stabilized in accordance with the following:

A. Post warning signs meeting the specifications of 8 CCR 1532.1 and 29 CFR 1926.62 at any location and approaches to a location where airborne concentrations of lead dust may exceed ambient background levels. Signs shall be posted at a distance sufficiently far enough away from a work

area to permit a person to read the sign and take necessary protective measures to avoid exposure. Barrier tape shall be utilized in conjunction with signs for exterior removal activities, to delineate the extent of regulated work areas.

B. Prepare appropriate fall protection systems in accordance with the requirements of Title 8 California Code of Regulations, Sections 1669, 1670, 1724 and anchoring guidance from Title 8 California Code of Regulations, Section 3283 (where applicable).

C. Install worker decontamination unit described in Article 3.05 or as agreed upon with Environmental Consultant.

D. Abatement workers involved in the substrate repair procedures shall wear two disposable Tyvek suits, including gloves, hood and footwear. Minimum respiratory protective equipment shall be half-face air-purifying respirators equipped with P100 filters. Upon exiting the work area the handlers shall HEPA vacuum all visible debris from the outer suit, dispose of it as lead-contaminated waste, and proceed through the decontamination unit for full decontamination.

E. Isolate work area by installing critical barriers where airborne lead dust migration may cause secondary lead contamination (for work where components will be removed relatively intact, such as doors, downspouts, and wood trim, drop cloths will suffice). At a minimum, the work area will be delineated with the use of appropriately labeled barrier tape and signs. Plastic sheeting shall be placed out a minimum of five (5) feet from the component to be removed.

F. Cover all immovable items and/or construct walls in the Work Area with fire retardant polyethylene sheeting. Walls that will be impacted do not necessarily need protection (check with Project Environmental Consultant).

1. Walls shall be covered with six-mil fire-retardant polyethylene sheeting (sealed airtight with duct tape).
2. Plastic shall be sized to minimize seams.
3. Wall sheeting shall overlap floor sheeting by at least 12 inches beyond the wall/floor joint to provide a better seal for negative pressure.
4. Wall sheeting shall be secured adequately to prevent it from falling away from the walls. This may require additional support/attachment when Negative Pressure Ventilation Systems area utilized.
5. Fire exits shall be clearly labeled with red tape or equivalent.

G. Mist damaged substrate area with water. Using a utility knife, score paint around area to be removed.

H. Remove damaged paint from area to be patched/repaired utilizing wet scraping methods. Do not allow paint chips, debris or dust to accumulate. HEPA vacuums shall be used to clean up small debris generated during repair activities.

I. Remove damaged section of substrate and place in disposal bag or wrap in poly as appropriate. Dispose of all lead-containing/contaminated waste in accordance with Article 3.15, Disposal Procedures.

J. Prepare area for new patching materials. Coordinate all patching efforts with Painting Contractor and Inspector of Record. All procedures implemented and materials used need to be approved in writing by the IOR and Painting Contractor and be coordinated with applicable Painting Specifications as directed by CNUSD and/or their representative.

K. Where manual demolition is employed for lead removal, periodically mist the work area and materials to be impacted to maintain a wet condition and avoid the creation of airborne dust, which may carry lead.

L. The Contractor shall carry out all impacts to LBPs in a manner that will minimize pulverizing, breaking, abrading, or in any other way impacting lead-containing paints and generating airborne lead-containing dust.

M. Once all substrate repair activities have been completed, clean-up of the work areas shall be conducted in accordance with Article 3.13, Cleanup Procedure.

N. Dispose of all lead-containing/contaminated waste in accordance with Article 3.15, Disposal Procedures.

## 3.05 DECONTAMINATION ENCLOSURE SYSTEM

B. Worker decontamination enclosure systems shall be provided at all locations where workers will enter or exit the work area. At a minimum, one, three-stage system at a single location is preferred. Each work area where negative pressure enclosure is the selected method of engineering controls shall have a worker decontamination unit.

In the event that a three-stage decontamination unit includes a shower, the shower must be connected to a water source and have a water filtration unit attached and functioning. As an alternate, a cleansing station may be used. See Item E below.

B. Worker decontamination enclosure systems constructed at the Project site shall utilize six-mil, fire-retardant polyethylene sheeting, or other approved materials for privacy.

C. Personnel Decontamination Units shall not be located inside the work area(s) unless specifically authorized by the Environmental Consultant.

D. Alternate methods of providing Decontamination facilities may be submitted to the Environmental Consultant for approval. Do not proceed with any such method(s) without the written authorization from Owner Representative and/or Consultant.

E. The worker decontamination enclosure system shall consist of at least a cleansing station in accordance with the requirements of 8 CCR 1527 and 8 CCR 1529, equipped with adequate water, towels and cleansing agents to accommodate the entire crew and visitors.

F. All polyethylene barriers and decontamination enclosure systems shall be inspected at least twice daily by the Contractor's competent person prior to the start of each day's abatement activities and following the completion of the day's abatement activities.

G. Damage and defects in the enclosure system are to be repaired immediately upon discovery.

## 3.06 WORKPLACE ENTRY AND EXIT PROCEDURES

A. All workers and authorized personnel shall enter the regulated area through the decontamination enclosure system.

B. All personnel shall proceed first to the clean room, remove all street clothes, and appropriately don respiratory protection (as approved for the job conditions) and disposable coveralls, head covering and foot covering. Hard hats, eye protection and gloves shall also be utilized, if required. Clean respirators and protective clothing shall be provided and utilized by each person for each separate entry into the regulated area.

C. Personnel wearing designated personal protective equipment shall proceed from the clean room through the decontamination enclosure system to the regulated area.

D. Before leaving the regulated area, all personnel shall remove gross contamination from the outside of respirators and protective clothing by brushing or wet wiping procedures. Small HEPA vacuums with brush attachments may be utilized for this purpose. Each person shall clean bottoms of protective footwear in the walk-off pan just prior to entering the equipment room/pre-shower chamber.

E. Personnel shall proceed to equipment room where they remove all protective equipment except respirators. Deposit disposable clothing into appropriately labeled containers for disposal.

F. Reusable, contaminated footwear shall be stored in the equipment room when not in use in the regulated area. Upon completion of abatement, it shall be disposed of as asbestos contaminated waste. Rubber boots may be decontaminated at the completion of the abatement for reuse.

G. Workers will decontaminate all respirators and non-porous items with wet towels, rags provided in the equipment room. Workers will remove filter cartridges and dispose of them in the bag or receptacle provided in the equipment room. Workers will also wet wipe and decontaminate themselves in this location. Contaminated towels and suits shall be placed in bags/receptacles before proceeding to the clean room.

H. Workers shall not eat, drink, smoke, and chew gum or tobacco in the regulated area. To eat, drink or smoke, workers shall follow the procedure described above, and then dress in street clothes before entering the non-regulated areas of the building.

I. Emergency exits shall be established and clearly marked with duct tape arrows or other effective designations to permit easy location from anywhere within the regulated area. They shall be secured to prevent access from uncontaminated areas, but still permit emergency exiting. These exits shall be properly sealed with polyethylene sheeting which can be cut to permit egress, if needed. These exits may be through the decontamination enclosure, the waste pass-out airlock, and/or other alternative exits that are satisfactory to fire officials.

## 3.07 WASTE CONTAINER PASS-OUT PROCEDURE

A. Lead contaminated waste that has been containerized shall be transported out of the regulated area through the waste container pass-out airlock (or through the decontamination enclosure if a separate airlock has not been constructed). Wherever possible, this shall be located where there is direct access from the regulated area to the outside of the building and the waste storage/disposal container. The waste container pass-out airlock shall be constructed in similar fashion to the worker decontamination enclosure system using similar materials and airlock and curtain doorway designs. This airlock system shall not be used to enter or exit the regulated area. The airlock system shall be tightly sealed when not in use.

B. The inside team wearing protective clothing and respirators appropriate for the contaminated regulated area shall clean the entire surface, including bottoms, of properly labeled bags, using

HEPA vacuums and wet wiping techniques and transport them into the waste container pass-out airlock where they will be placed into another properly labeled bag. No worker from the inside team shall further exit the regulated area through this airlock.

C. Workers from outside the regulated area wearing appropriately assigned respirators shall enter the airlock from outside the regulated area solely for waste removal from the work area. No worker from the outside team shall further enter the regulated area through this airlock.

D. The exit from this airlock shall be secured to prevent unauthorized entry when not in use.

## 3.08 WATER COLLECTION AND DISPOSAL

A. All water resulting from the pre-cleaning operation, excess from the floor of regulated area, decontamination water, and the final cleaning operation shall be collected and placed in a sealed container(s) for disposal as hazardous waste or for waste characterization to determine if it is hazardous waste. No water shall be disposed of in sanitary sewers or storm drains.

## 3.09 WET REMOVAL PROCEDURE

A. Wet all lead containing material with an amended water solution using equipment capable of providing a fine spray mist, in order to reduce airborne fiber concentrations when the material is disturbed. Saturate the material to the substrate. Keep all removed material wet to prevent dust release until it can be containerized for disposal.

B. Saturated lead waste shall be removed in manageable sections, but as large as practical. Removed material should be containerized before moving to a new location for continuance of work. Surrounding areas shall be periodically sprayed and maintained in a wet condition until visible material is cleaned up.

C. Bags shall be considered full when half their capacity has been filled. They should be securely sealed to prevent accidental opening and leakage by tying tops of bags in an overhand knot or by taping in gooseneck fashion. Do not seal bags with wire or cord.

D. Large components removed intact may be wrapped in two (2) layers of six (6) mil polyethylene sheeting secured with tape for transport to the approved disposal site.

E. Lead containing waste with sharp edged components (e.g., nails, screws, metal lathe, tin sheeting) shall be placed into drums for disposal in lieu of polyethylene bags. Drums shall be marked to differentiate contents from those drums containing bagged material.

F. After completion of all stripping work, surfaces from which lead has been removed such as plaster base coat or metal deck, etc., the surfaces shall be wet brushed and sponged to remove all visible residues.

## 3.10 ENCAPSULATION/STABILIZATION PROCEDURES

A. Clean and isolate the regulated area as specified in Subpart entitled "3.02 LBP/Lead-Containing Surface Coating Impacts", hereinbefore.

B. Repair damaged and missing areas of existing materials with non-lead-containing substitutes. Material must adhere adequately to existing surfaces and provide an adequate base for application of encapsulating agents. Filler material shall be applied in accordance with manufacturer's recommended specifications.

C. Feather back rough edges of paint by carefully sanding with HEPA equipped sanders.

D. Spray apply with airless equipment with low nozzle pressure to all surfaces where lead is removed or surfaces containing lead that are to remain in place. Spray must completely encapsulate any remaining lead, permanently locking it in place.

E. Apply a minimum of one (1) coat with coverage in strict accordance with manufacturer's recommendations. Surfaces must be dry and free of dirt, oil and dust.

## 3.11 AIR MONITORING

A. The Consultant (Owner's Representative) shall perform the ambient air sampling. All sample collection procedures and evaluation to determine employee exposure levels (Contractor responsibility) shall conform to the requirements of OSHA Standard 29 CFR 1926.62 or 8 CCR 1532.1. For exterior lead abatement areas, a minimum of two upwind and two downwind ambient air samples (one at each of four sides of the area is acceptable) shall be collected during the disturbance of lead containing materials (e.g., stabilization and coating). For interior lead abatement areas air samples shall be collected outside the perimeter of the regulated area(s), outside the decontamination unit, and outside the waste load-out unit. The samples shall be placed as close as practical to the affected area.

B. All samples collected shall be analyzed on a 24-hour turnaround basis by a laboratory accredited by the California Environmental Laboratory Accreditation Program (CA ELAP) and the American Industrial Hygiene Association Laboratory Accreditation Programs, LLC (AIHA-LAP) under their Environmental Lead Laboratory Accreditation Program (ELLAP). The results of each analysis shall be submitted to the Owner's Representative within two hours of receipt from the lab. Copies of the analysis results shall also be made available to Owner Representative and the Contractor upon request and posted in the clean room or break area on the day of receipt from the lab.

C. Documentation requirements must include the following, as a minimum:

Air Sampling Procedures: Sampling times, sampling locations (with appropriate diagrams), evidence of periodic inspection of sampling equipment, documentation of pre and post calibration of equipment, detailed description of work conditions, description of worker protective devices, and a description of any atypical environmental conditions.

D. Minimum testing required for the project shall consist of the following:

1. Exterior Testing During Exterior Paint Disturbance: Area air samples will be collected at the perimeters of the regulated area.

2. Personal Sampling for OSHA - PEL and Action Level - As required by 29CFR 1926.62 samples shall be within the breathing zone of each worker category (i.e., wetter, receiver, bagger, etc.) 25% of the crew, or one per job category (Contractor responsibility).

E. Daily Personal Air Monitoring (OSHA Compliance):

1. Daily determination of employee exposure during LBP disturbance (e.g., exterior paint stabilization and coating disturbance) shall be made by collecting one or more breathing zone samples that are representative of the 8-hour TWA, full-shift exposure for each employee in each regulated area.

2. Daily testing may be dispensed with if employees are equipped with supplied-air respirators operated in a positive-pressure mode while performing abatement work or sampling indicates that exposures do not exceed the OSHA Action Level.

3. Daily testing may also be dispensed with if the contractor is in possession of a negative exposure assessment performed in accordance with 8 CCR 1532.1 on the same workers for like tasks within the last 12 months.

## 3.12 WORK STOPPAGE

A. The Owner's Representative has the authority to stop the abatement work under the provisions of the General Conditions of this contract at any time he/she determines either personally or through the services of the air sampling professional that conditions are not in compliance with the specifications and applicable regulations. The stoppage of work shall continue until conditions have been corrected and corrective steps have been taken to the satisfaction of the Owner's Representative. Standby time required to resolve violations shall be at the Contractor's expense.

B. When exterior paint is being stabilized or removed any visible debris or dust must not migrate beyond the work area. If wind conditions cause this to occur, then work shall stop until the wind decreases to allow for no further dust/debris migration. Wind speed of over 10 mph may cause this. As such wind conditions expected for the days of work must be considered when planning these activities.

## 3.13 CLEANUP PROCEDURE

A. Remove and containerize all visible accumulations of lead and lead contaminated debris utilizing rubber dust pans and rubber squeegees to move material around. Do not use metal shovels to pick up or move accumulated waste. Special care shall be taken to minimize damage to floor containment sheeting, when present.

B. Wet clean all surfaces in the regulated area using rags, mops and sponges as appropriate. (Note: Some HEPA vacuums might not be wet-dry vacuums.)

C. Prior to removing the inner layer of plastic sheeting, the sheeting shall be sprayed with an encapsulant so that any residue remaining will be adhered to the plastic sheeting.

D. Remove the cleaned inner layer of plastic sheeting from walls and floors. Windows, doors, HVAC system vents and all other openings shall remain sealed. The negative pressure ventilation units shall remain in continuous operation. Decontamination enclosure systems shall remain in place and be utilized.

E. Remove all containerized waste from the regulated area and waste container pass-out airlock. Decontaminate all tools and equipment and remove at the appropriate time in the cleaning sequence.

F. The Owner's Representative and the Contractor shall inspect the regulated area for visible residue. If any accumulation of residue is observed, it will be assumed to be LBP and the cleaning cycle shall be repeated.

## 3.14 CLEARANCE TESTING

A. If requested by Owner Representative only. Either or both interior floor surfaces and exterior soils will be sampled. Clearance soil sampling will be conducted by the Consultant (Owner's Representative) of one area on each side of the building (four samples). Floor wipe samples will be collected from each affected interior space, as necessary.

B. Submit samples to an CA ELAP certified laboratory for analysis.

C. Interpret results by comparing them to the EPA Clearance Standards (40CFR 745.227(e)) or 17 CCR Division 1, Chapter 8 lead hazard standards. The standard for soil is less than 400 parts per million (ppm) (total lead).

D. The floor wipe sampling clearance criteria is less than 10 microgram per square foot (µg/ft$^2$.)

E. The clearance criteria for an interior horizontal surface is less than 100 µg/ft$^2$.

F. The clearance criteria for exterior floor and exterior horizontal surfaces is less than 400 µg/ft$^2$.

F. Should laboratory results indicate that either the soil or floor wipe clearance level is exceeded, the Contractor shall remove additional soil or reclean the affected areas, at no additional cost to the Owner, utilizing the methods specified above. Retesting will then be performed to verify compliance with the mandated levels. The Owner will pay for the initial clearance testing and one re-testing. The cost of any further retesting, necessitated as a result of failure to meet requirements for clearance, shall be borne by the Contractor.

## 3.15 DISPOSAL PROCEDURES

A. Contractor is responsible for characterization of lead waste prior to waste being transported off site. All waste characterization samples must be taken under the supervision of the Project Environmental Consultant. Characterization sample results must be submitted to the Owner and/or Project Environmental Consultant for review prior to waste being transported off site.

B. All lead wastes shall be either disposed of as construction debris (if STLC/TCLP results allow) or lead-containing waste (with attendant RCRA codes, if STLC/TCLP results so require).

C. All hazardous wastes must be disposed of by a certified waste hauler approved by the Owner.

D. Obtain the EPA Hazardous Waste Generator Identification Number and State of California Hazardous Waste Tax Identification Number from the Owner.

E. All hazardous waste manifests, non-hazardous material data forms and bills of lading shall be delivered to the Project Environmental Consultant. Record keeping format shall utilize a chain of custody form which includes the names and addresses of the Generator (Owner), Contractor, Waste Hauler, pickup site, disposal site, the estimated quantity of the asbestos waste and the type of containers used. The form shall be signed by the Generator, Contractor, Waste Hauler and the Disposal Site Operator, as the responsibility for the material changes hands.

## 3.16 PROCEDURES

A. If specified procedures cannot be utilized, a request shall be made in writing to the Owner Representative and Consultant providing details of the problem encountered and recommended alternatives.

B. Alternative procedures shall provide equivalent or greater protection than procedures that are replaced.

C Any alternative procedure must be approved in writing by the Environmental Consultant and the Owner Representative prior to the implementation of the procedure.

END OF SECTION

# APPENDIX F3
# PRELIMINARY ENDANGERMENT ASSESSMENT (PEA)

# TECH MEMO/WORK PLAN

EEC ENVIRONMENTAL
Corporate Office
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Orange, California 92868
www.eecenvironmental.com

April 17, 2023

Ms. Lina Hijazi, Project Manager
Department of Toxic Substances Control
Site Mitigation and Restoration Program
5796 Corporate Avenue
Cypress, CA 90630

Subject: Preliminary Endangerment Assessment (PEA) Technical Memorandum Work Plan
Centennial High School Aquatic Center Project
1820 Rimpau Avenue, Corona, California 92881

Dear Ms. Hijazi:

On behalf of the Corona-Norco Unified School District (CNUSD), EEC Environmental (EEC) submits this Preliminary Endangerment Assessment (PEA) Technical Memorandum Work Plan (PEA Work Plan) for the Aquatic Center project area at the Centennial High School in Corona, California (Site; Figure 1, *Site Location Map*). The Site is an approximately 1.72-acre Aquatic Center. The project includes increasing the pool size to a 50-meter pool, expanding the pool area to account for the larger pool and bleachers, replacing the existing locker room, restroom, and pool equipment building, and installing new covered bleachers.

EEC prepared and submitted a Phase I Environmental Site Assessment (Phase I ESA) for the Site to the Department of Toxic Substances Control (DTSC) in September 2022. In October 2022, the DTSC responded via email and provided comments on the Phase I ESA. In their comments, the DTSC requested soil samples be collected at the Site and analyzed for organochlorine pesticides (OCPs) and arsenic per the DTSC's Interim Guidance for Sampling Agricultural Properties (Interim Guidance), dated August 7, 2008 (DTSC, 2008). This work plan describes the requested sampling.

**SCOPE OF WORK**

Soil sampling will be conducted to assess potential impacts to the Site from the identified historical agricultural use. Soil sampling will be conducted in accordance with the requirements provided in the DTSC's Interim Guidance (DTSC, 2008). Pursuant to Table 1 in the Interim Guidance, EEC will conduct shallow soil sampling at a total of four (4) locations within the project area of the Site (Figure 2, *Proposed Sample Location Map*).

Soil sampling will be completed under the oversight of a Licensed California Professional Geologist (PG) or Professional Civil Engineer (PE-Civil).

*Pre-Field Activities*

EEC will prepare a Site-Specific health and safety plan (HASP) prior to performing field activities at the Site. The HASP will be for the use of EEC and EEC subcontractors, if applicable, conducting field work at

the Site. The HASP will be reviewed daily for the scope of work and safety procedures. EEC and EEC subcontractors, if applicable, will review and sign the HASP prior to the start of field activities.

*Field Activities*

Prior to beginning field activities, a Site walk will be conducted to mark out the proposed borings with chalk or chalk-based paint. The proposed boring locations will be marked using white paint. Underground Service Alert (USA) will be notified at least 48 hours prior to coring or sampling activities. EEC will respond to any "meet and mark" requests.

Prior to soil sampling, the concrete or asphalt surface at each boring location with be cored with concrete coring equipment. Following coring, EEC will advance a total of four (4) borings utilizing hand auger drilling methods to total depths of 0.5 feet below the asphalt or concrete surface. Soil samples will be collected from each boring at depths just below surface pavement to 0.5 feet below ground surface (bgs). Samples will be collected in laboratory supplied 8-ounce glass jars, sealed, labeled, and placed in a chilled ice chest for transport to an Environmental Laboratory Accreditation Program (ELAP) certified laboratory for analysis.

Soil samples collected from each boring will be analyzed for the following:

- Arsenic by Environmental Protection Agency (EPA) Method 6020
- OCPs by EPA Method 8081A

One duplicate soil sample will be collected and analyzed for the same constituents as the primary samples.

All reusable sampling equipment utilized during field activities will be decontaminated between samples to prevent cross-contamination.

Once sampling is complete, the borings will be backfilled with soil cuttings and finished with concrete to match the existing surface. No cold patch will be used.

*Reporting*

The results of the sampling will be documented in an addendum to the Phase I ESA report. The addendum will include a description of the work completed and findings of the assessment, tables summarizing laboratory analyses, figures, including a sample location map, and copies of the laboratory report(s) and chain of custody documentation. A California PG or PE-Civil and will sign the report addendum.

Should there be any questions regarding this PEA Work Plan, please contact the undersigned at (714) 667-2300 or by email at bpatel@eecenvironmental.com.

Sincerely,

Bina Patel
Project Geologist I




Mark Zeko, PG, CHG
Principal Hydrogeologist

Attachments:
Figure 1 – Site Location Map
Figure 2 – Proposed Sample Location Map

# Figures

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LEGEND

Approximate Site Boundary

Notes:
Map Source: Google Earth

N

0 140 ' 280 '

APPROXIMATE SCALE

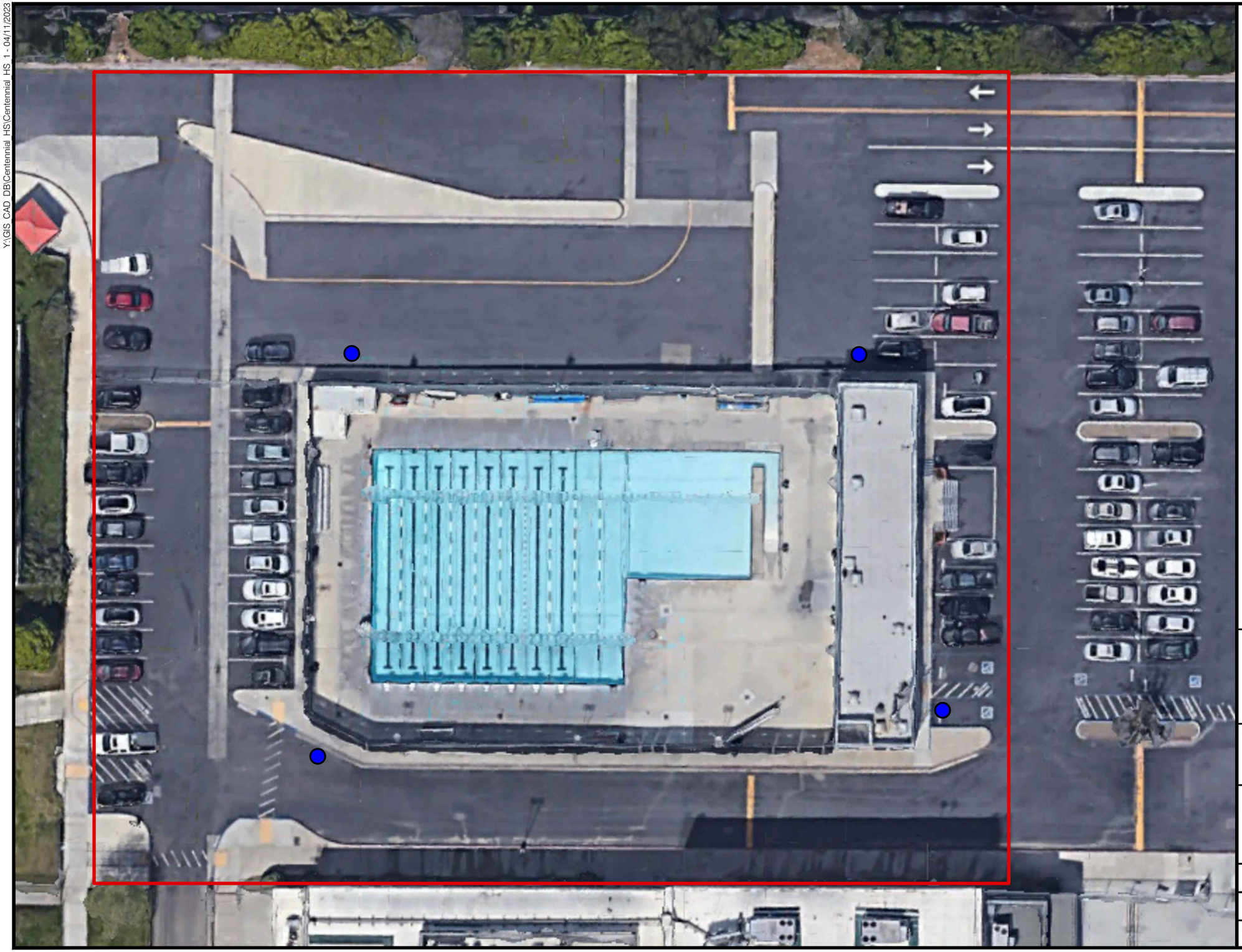
EEC ENVIRONMENTAL

Project
Centennial High School Aquatic Center
1820 Rimpau Avenue
Riverside, California

**SITE LOCATION MAP**

| Project Number | File Number | Figure |
|---|---|---|
| S-3757.01T | Centennial HS 1 | 1 |
| Date: April 11, 2023 | | |
| PE/PG: MZ | PM: BP | Drafter: AC |

Y:\GIS_CAD_DB\Centennial_HS\Centennial_HS_1 - 04/11/2023



LEGEND

Approximate Site Boundary

Proposed Soil Sample Location

Notes:
Map Source: Google Earth

0 30 ' 60 '

APPROXIMATE SCALE

EEC ENVIRONMENTAL

Project
Centennial High School Aquatic Center
1820 Rimpau Avenue
Riverside, California

**PROPOSED SAMPLE LOCATION MAP**

| Project Number | File Number |
|---|---|
| S-3757.01T | Centennial_HS_1 |

| Date | Figure |
|---|---|
| April 11, 2023 | **2** |

| PE/PG | PM | Drafter |
|---|---|---|
| MZ | BP | AC |

# REPORT

EEC ENVIRONMENTAL

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# PRELIMINARY ENDANGEMENT ASSESSMENT REPORT

Centennial High School Aquatic Center
1820 Rimpau Avenue
Corona, California

July 17, 2023

Prepared for:

Corona-Norco Unified School District
2820 Clark Avenue
Norco, California 92860

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# ES EXECUTIVE SUMMARY

On behalf of the Corona-Norco Unified School District (CNUSD), EEC Environmental (EEC) has performed a Preliminary Endangerment Assessment (PEA) for the Aquatic Center at the Centennial High School, located at 1820 Rimpau Avenue, Corona, California.

For the purpose of this report, the Subject Site, or Site, refers to an approximately 0.65-acre area located on the northeastern portion of the approximately 40-acre Centennial High School property, hereafter referred to as the "School". The improvements for the Site will include:

- Increasing the pool size to a 50-meter pool.
- Expanding the pool area to account for the larger pool and bleachers.
- Replacing the existing locker room, restroom, and pool equipment building
- Installing new covered bleachers

In September 2022, EEC prepared and submitted a Phase I Environmental Site Assessment (Phase I ESA) for the Site (EEC, 2022a). The Phase I ESA initially did not identify any recognized environmental concerns (RECs) for the Site. However, in October 2022, the Department of Toxic Substances Control (DTSC) responded via email and provided comments on the Phase I ESA. In their comments, the DTSC indicated that the Site has not been assessed and the former agricultural use represents a REC. The DTSC requested soil samples be collected at the Site to assess impacts, if present, from the former agricultural use. EEC prepared a Response to Comments (RTC) (EEC, 2022b) and updated the Phase I ESA following receipt of DTSC's comments.

The purpose of this PEA was to assess shallow soil at the Site for the potential environmental concerns identified for Site and to identify if any potential issues will need to be mitigated either prior to or during improvement activities.

## ES.1 Previous Investigations

The Phase I ESA Report, DTSC comments, and RTC identified the following RECs:

- Former agricultural use on the School and lack of soil sampling in the area of the Site.

## ES.2 Preliminary Endangerment Assessment

The PEA activities were conducted on June 5, 2023. As part of the PEA investigation, EEC completed the following soil sampling program:

- Four shallow soil borings were advanced where soil will be disturbed during construction activities. Soil samples were collected at depths of just below the asphalt surface to 0.5 feet below ground surface. The soil samples collected from each boring were analyzed for arsenic and organochlorine pesticides (OCPs), which represented the identified constituents of potential concern (COPCs).

The results of the PEA activities described in this document identified the presence of arsenic and OCPs in soil, however, concentrations were not detected above applicable regulatory screening levels or were consistent with background concentrations (e.g., arsenic).

A Human Health Screening Evaluation was conducted to estimate the cumulative cancer risk and hazard index posed to Site occupants by exposure to COPC-impacted soil. Given that the concentrations of arsenic are consistent with generally recognized background levels, arsenic was not retained for quantitative analysis in the health risk assessment. Although OCPs did not exceed applicable screening

levels, the cancer risk and hazard index were calculated for completeness. The cumulative cancer risk based on the maximum concentrations identified at the site is $3.40 \times 10^{-08}$. This value is below the DTSC's target risk value of $1 \times 10^{-06}$. The estimated hazard index of $2.33 \times 10^{-03}$ is below the benchmark level for noncancerous effects (1.0).

## ES.3 Recommendations

Based on the findings and conclusions of this PEA investigation, EEC recommends no additional investigation at the Site, and concludes that soil disturbed during construction activities has no special handling or disposal restrictions.

# 1.0 INTRODUCTION

EEC Environmental (EEC) on behalf of the Corona-Norco Unified School District (CNUSD), has prepared this Preliminary Endangerment Assessment (PEA) Report for the Aquatic Center project area located at the Centennial High School, 1820 Rimpau Avenue in Corona, Riverside County, California (Figure 1, *Site Vicinity Map*). For the purpose of this report, the Subject Site, or Site, refers to an approximately 0.65-acre area located on the northeastern portion of the approximately 40-acre Centennial High School property, hereafter referred to as the "School". The CNUSD plans to improve the Site to increase the pool size to a 50-meter pool, expand the pool area to account for the larger pool and bleacher, replace the existing locker room, restroom, and pool equipment building, and install new covered bleachers.

In September 2022, EEC prepared and submitted a Phase I Environmental Site Assessment (Phase I ESA) for the Site (EEC, 2022a). The Phase I ESA initially did not identify any recognized environmental concerns (RECs) for the Site. However, in October 2022, the Department of Toxic Substances Control (DTSC0 responded via email and provided comments on the Phase I ESA. In their comments, the DTSC indicated that the Site has not been assessed and the former agricultural use represents a REC. The DTSC requested soil samples be collected at the Site to assess impacts, if present, from the former agricultural use. EEC prepared a Response to Comments (RTC) (EEC, 2022b) and updated the Phase I ESA following receipt of DTSC's comments.

This PEA has been completed to assess shallow soil at the Site for the potential environmental concerns identified for Site and to identify if any potential issues will need to be mitigated either prior to or during improvement activities.

The PEA field investigation, laboratory analysis program, and screening level human health and ecological risk assessment were conducted in accordance with the DTSC-approved PEA Technical Memorandum Work Plan (PEA Work Plan), dated April 2023. The PEA Report was prepared following the guidelines of the California Environmental Protection Agency (Cal-EPA) and DTSC, as detailed in the Preliminary Endangerment Assessment (PEA) Guidance Manual (January 1994, Interim Final – Revised October 2015).

## 1.1 PEA Objectives

The Site is an approximately 0.65-acre area located on the northeastern portion of the approximately 40-acre Centennial High School property (School). The improvements for the Site will include:

- Increasing the pool size to a 50-meter pool.
- Expanding the pool area to account for the larger pool and bleachers.
- Replacing the existing locker room, restroom, and pool equipment building.
- Installing new covered bleachers.

The proposed improvement area is shown in Figure 2, *Site Location Map*. The purpose of this PEA was to assess shallow soil for potential environmental concerns identified in the EEC Phase I ESA conducted in September 2022, DTSC comments on the Phase I ESA, and the RTC, dated October 2022, and to identify if any of the potential issues will need to be mitigated either prior to or during the improvement activities.

The Phase I ESA Report, DTSC comments, and RTC identified the following RECs:

- Former agricultural use on the School and lack of soil sampling in the area of the Site.

The primary objectives of the PEA are as follows:

1) Evaluate, through a field sampling and analysis program, the possible presence of potential contaminants in shallow soil related to the previously identified REC(s).
2) Evaluate the potential presence of COPCs (arsenic and organochlorine pesticides [OCPs]) in shallow soil and determine whether special consideration with regard to future soil handling and disposal during improvements activities is warranted.
3) Determine if detected COPCs in shallow soil exceed health-based screening criteria (residential land-use scenario) for protection of students, faculty, staff, and visitors at the Site.
4) If COPCs are present, determine if further investigation, monitoring, and/or remedial actions are necessary.

## 1.2 Scope of Work

The scope of work implemented to prepare this PEA included:

- Preparation of the PEA Work Plan.
- Implementing field and laboratory data collection and evaluation to assess environmental conditions at the Site.
- Preparing a screening level human health and ecological risk assessment.
- Preparing this PEA Report.

## 1.3 PEA Report Format

The PEA Report is organized in general accordance with the format presented in Chapter 3 of the DTSC's PEA Guidance Manual. This PEA Report contains the following sections:

- Section 1 presents an Introduction and summary of the objectives, scope of work, and report format.
- Section 2 presents a Site Description.
- Section 3 presents the Site Background.
- Section 4 presents the Apparent Problem.
- Section 5 presents the Environmental Setting.
- Section 6 presents Sampling Activities and Results.
- Section 7 presents the Human Health Screening Evaluation.
- Section 8 presents the Ecological Screening Evaluation.
- Section 9 presents the Conclusions and Recommendations.
- Section 10 presents the References.

# 2.0 SITE DESCRIPTION

## 2.1 Site Name and Address

The School is located at 1820 Rimpau Avenue in Corona, Riverside County, California (Figure 1). The Site is located on the northwestern portion of the School and is approximately 0.65-acres in size. The Subject Site is bounded to the north by residential homes, to the east by an asphalt parking lot followed by Rimpau Avenue, to the south by a School building, and to the west by the School football field.

## 2.2 Designated Contact

The designated contact person for this project is Ms. Jacquelyn Roberts, Construction Director – Facilities Division, CNUSD.

Corona-Norco Unified School District
2820 Clark Avenue
Norco, California 92860
951-230-2267
Jacquelyn.Roberts@cnusd.k12.ca.us

## 2.3 Mailing Address

Centennial High School
1820 Rimpau Avenue
Corona, CA 92881
(951) 739-5670

# 3.0 SITE BACKGROUND

## 3.1 Site Status/Historical Information

EEC evaluated historical land use at the Site through the examination of selected historical aerial photographs, historical topographic maps, fire insurance maps, city directories, and agency documents. The Site was undeveloped from the early 1900s until the early 1930s when it consisted of groves. The agricultural use of the Subject Site continued until 1985, when the Site was cleared of vegetation. In 1989, the majority of the existing high school was developed, and additions and renovations took place in 1993 with the development of the existing Aquatic Center (i.e., Site); and between 2009 and 2012, when the southern portion of the high school was redeveloped with the existing classroom and kitchen buildings.

### *3.1.1 Property Ownership*

The Site is owned by the CNUSD.

### *3.1.2 Facility Ownership/Operators*

The School Facilities are owned by the CNUSD.

### *3.1.3 Business Type*

The property is currently a fully operational school; business type is education.

### *3.1.4 Years of Operation*

The property has been a school site since 1989/1990. The Site was developed in 1993.

## 3.2 Surrounding Land Uses

Surrounding properties consisted of groves and possibly some residences from 1931 to 1967. In the mid-1970s through the 1980s the surrounding properties were developed with single-family residences. The use of the surrounding properties has generally remained unchanged since the 1990s.

### *3.2.1 Adjoining Properties*

North – Villa Corona Mobile Home Community (1550 Rimpau Avenue).

East– School asphalt parking lot followed by Rimpau Avenue.

South – School 500 building/gym building.

West – School wrestling/weight room followed by the School football field.

### *3.2.2 Regulatory Status of Offsite Properties*

- A residence registered as a non-generator of hazardous waste in 2018 was identified at the northern adjoining property (1550 Rimpau Avenue). The facility is located down-gradient relative to the Site. No violations were reported. Based on the residential use and regulatory status, anticipated depth to groundwater (greater than 100 feet bgs), and gradient relative to the Site, this facility is not anticipated to represent an environmental concern.
- Factory Connection, Inc. has been registered as a non-generator of hazardous waste since 2021 and operates as a household good repair and maintenance facility. The facility is located approximately 70 feet east (1701 Rimpau Avenue, Suite 1020) and is cross-gradient relative to the Site. No violations were reported. Based on the facility's operations and regulatory status, anticipated depth to groundwater (greater than 100 feet bgs), and gradient relative to the Site, this facility is not anticipated to represent an environmental concern.
- Couts Heating and Colling, Inc. operates as a plumbing, heating, and air conditioning contractor. In 2010 the facility was registered as a non-generator of hazardous waste. The facility is located approximately 70 feet northeast (1693 Rimpau Avenue) and downgradient of the Site. Waste streams generated at the facility include waste oil and mixed oil and oil/water separation sludge. Violations reported at the facility between 2016 and 2020 primarily consist of general administrative violations. Additionally, the violations have all since been returned to compliance. Moreover, the facility is not identified with reported releases on the Santa Ana Regional Water Quality Control Board's online database, GeoTracker. Based on the facility's current regulatory status, lack of reported releases, anticipated depth to groundwater (greater than 100 feet bgs), and gradient relative to the Site, this facility is not anticipated to represent an environmental concern.
- Maynard Pogue DDS and Corona Sunrise Physician Medical Group operate as a medical office building including dental offices. The facility was registered as a non-generator of hazardous waste in 1997 and as a small-quantity generator of hazardous waste in 1992. The facility is located approximately 80 feet west (1820 Fullerton Road) and cross-gradient of the Site. Violations associated with the facility are not identified. Based on the facility's operations, gradient relative to the Site, anticipated depth to groundwater (greater than 100 feet bgs), and regulatory status, this facility is not anticipated to represent an environmental concern.
- A Family Dental is a dental office that was registered as a non-generator of hazardous waste in 2014. The facility is located approximately 90 feet northwest (854 Magnolia Avenue, Suite D) and cross-gradient relative to the Site. No violations were noted. Based on the facility's operations, gradient relative to the Site, anticipated depth to groundwater (greater than 100 feet bgs), and regulatory status, this facility is not anticipated to represent an environmental concern.
- Riverside Medical Clinic operates as a free standing ambulatory surgical and emergency center and was registered as a non-generator of hazardous waste in 2008 and 2019 with no violations. The facility is located approximately 340 to 360 feet west (88 and 830 Magnolia Avenue) and cross-gradient relative to the Site. Based on the facility's operations, anticipated depth to groundwater (greater than 100 feet bgs), gradient relative to the Site, and regulatory status, this facility is not anticipated to represent an environmental concern.
- Michael Rodak operates as a flooring contractor and was registered as a non-generator of hazardous waste in 2020. The facility is located approximately 350 feet northeast (1121 Olympic

Drive) and down-gradient of the Site. No violations were noted. Based on the facility's operations, gradient relative to the Site, anticipated depth to groundwater (greater than 100 feet bgs), and regulatory status, this facility is not anticipated to represent an environmental concern.

- Soff Cut is located approximately 420 feet east (1112 Olympic Drive) and cross gradient relative to the Site. The facility was listed as a small quantity generator of hazardous waste in 2000 with no violations. Based on the facility's distance, gradient relative to the Site, anticipated depth to groundwater (greater than 100 feet bgs), and regulatory status, this facility is not anticipated to represent an environmental concern.
- Action Industries operates as a household refrigerator and home freezer manufacturing facility and was registered as a non-generator of hazardous waste in 1996. The facility is located approximately 420 feet east (1120 Olympic Drive) and cross-gradient relative to the Site. No violations were noted, and the facility was not identified with reported releases on GeoTracker. Based on the facility's distance, gradient relative to the Site, anticipated depth to groundwater (greater than 100 feet bgs), and regulatory status, this facility is not anticipated to represent an environmental concern.
- Oariona Lowe DDS and Evangelical Rossopoulos DDS is a dental office that was registered as a non-generator of hazardous waste in 2022. The facility is located approximately 480 feet west (802 Magnolia Avenue Suite 105), and cross-gradient relative to the Site. No violations were reported. Based on the facility's operations, gradient relative to the Site, anticipated depth to groundwater (greater than 100 feet bgs), and regulatory status, this facility is not anticipated to represent an environmental concern.
- GNB Lease Holding LLC is a storage battery manufacturer and was listed as a small quantity generator of hazardous waste in 2001. The facility is located approximately 530 feet northeast (1131 Olympic Drive) and downgradient relative to the Site. No violations were reported. Additionally, the facility is not identified with reported releases on GeoTracker. Based on the facility's distance, gradient relative to the Site, anticipated depth to groundwater (greater than 100 feet bgs), and regulatory status, this facility is not anticipated to represent an environmental concern.

## 3.3 Hazardous Substance/Waste Management Information

According to the Phase I ESA, the following waste is generated at the Site:

- Sodium hypochlorite was observed in a 5,000-gallon above ground storage tank (AST) in the waste storage rooms on the southern portion of the Site.
- Muriatic acid was observed in three approximately 15-gallon containers in the waste storage rooms on the southern portion of the Site.

### *3.3.1 Business/Manufacturing Activities*

No evidence of any current of other historic business/manufacturing activities on the Site was found during the preparation of the Phase I ESA or PEA.

### *3.3.2 Onsite Storage, Treatment, and Disposal*

As detailed in the Phase I ESA, EEC observed various chemicals associated with general household use such as paints, disinfectants, and cleaners stored in small containers were observed throughout the School. Small containers of engine, hydraulic, and motor oil were also observed throughout the School. Larger containers of chlorine, muriatic acid, and sodium hypochlorite were observed within the Site.

### *3.3.3 Regulatory Status*

Although the Site is not specifically listed on a regulatory agency databases, the School was identified on various databases including California Integrated Water Quality system (CIWQS), California Environmental Reporting System Hazardous Waste (CERS HAZ WASTE), California Hazardous Material Incident Report System (CHMIRS), California Environmental Reporting System (CERS), Hazardous Waste Tracking System (HWTS), Facility Manifest Data (HAZNET), Resource Conservation and Recovery Act Non Generators / No Longer Regulated (RCRA NonGen/NLR), Facility Index System / Facility Registry System (FINDS), Enforcement Compliance History Information (ECHO), EnviroStor Database (ENVIROSTOR), and School Property Evaluation Program (SCH).

Based on a review of the listings, the School was permitted with stormwater construction permits in 2004 and 2008 during the improvements to the track and field recreational area, the stadium, and interim housing. The School was cited with the following violations in 2016 and 2019: failure to submit hazardous material inventory and failure to provide annual training. These violations have since been corrected and the School has returned to compliance.

The School is registered as a hazardous waste generator. Waste streams generated on the School have consisted of: photo-chemicals and photo-processing waste, laboratory waste, latex waste, unspecified organic liquid, other organic solids, hydrocarbon solvents (2011-2015), unspecified aqueous solution, unspecified oil containing waste (2011), waste oil and mixed oil (2011), unspecified solvent mixture, off-specification, aged, or surplus organics, and oil/water separation sludge (2010-2011). Additionally, the School was permitted with Verizon Wireless telecommunication equipment. Violations in connection with the telecommunication equipment are not reported. This equipment was reportedly removed in 2017.

According to ENVIROSTOR, due to the former use of the School for agricultural purposes, soil investigations were previously completed at the School to evaluate the presence of OCPs, heavy metals, and arsenic in 2000 and 2007. The 2000 investigation was completed on a 1-acre portion of the School. Based on analytical results, No Further Action (NFA) was granted by the DTSC on February 13, 2001. In 2007, a PEA was conducted for the School, which involved collection of 39 soil samples throughout the School property. The Environmental Oversight Agreement (EOA) was later amended at the request of CNUSD to include only the 6.3-acre improvement areas instead of the entire School. At the request of the DTSC, a Supplemental Site Investigation (SSI) was conducted for the 6.3-acre improvement area in 2009. The DTSC approved the SSI on June 2, 2009 and granted an NFA for the 6.3-acre improvement area based on the analytical results.

### *3.3.4 Prior Assessments/Remediation*

EEC performed a Phase I ESA in September 2022. The DTSC provided comments on the Phase I ESA following submittal and EEC prepared an RTC, which was submitted to the DTSC in October 2022.

## 4.0 APPARENT PROBLEM

Based on the historical information reviewed and REC identified during the Phase I ESA, the potential source of contamination at the Site includes the former agricultural use. Therefore, the chemicals of potential concern associated with the Site include residual arsenic and OCPs.

# 5.0 ENVIRONMENTAL SETTING

This section presents and discusses the potential pathways by which individuals might be exposed to contaminants identified at the Site. It includes descriptions of the topographic, geologic, and hydrogeological features of the Site and surrounding areas. A conceptual site model (CSM) that considers the potential exposure pathways is presented on Figure 4, *Conceptual Site Model*, and is discussed in the following sections. For this evaluation students, faculty, parents and workers are considered potential receptors.

## 5.1 Factors Related to Soil Pathways

The PEA Guidance Manual requires that the risk/hazard due to exposure to soil be calculated as part of the PEA process. The exposure routes for soil addressed in this PEA include dermal contact and incidental ingestion of soil by a child and by an adult. In accordance with the PEA Guidance Manual, a residential exposure scenario was used to evaluate the potential health risks. In adults, incidental soil ingestion may occur during outdoor work that raises dust, such as during construction. Dermal absorption may occur if dust particles adhere to exposed skin. Young children may ingest or inhale airborne dust particles soil during outdoor activities, and dermal absorption may occur in a similar manner as experienced by adults. The PEA Guidance Manual provides guidance on the amount of soil typically ingested, inhaled, and absorbed by the skin by both the child and the adult on a daily basis.

### *5.1.1 Site Topography*

The most recent topographic map coverage of the Site is provided by the United States Geological Survey (USGS) 7.5-minute, South Corona, California quadrangle map, dated 2018 (USGS, 2018). According to the USGS topographic map, the Site is located at an elevation of approximately 800 feet above mean seal level (msl). The regional topography near the Site gently slopes to the northeast.

A chain-link fence was observed along the northern boundary. Residences are situated against the chain link fence. A retaining wall was observed along the west side of the property boundary which is the base of a small slope. The football field is located at the top of this slope.

### *5.1.2 Proximity to Surface Water Bodies*

Nearby surface water bodies include the Temescal Wash and Main Street Wash located approximately 1.25-miles to the northeast and 1.0-mile to the west-northwest, respectively.

### *5.1.3 Evidence of Releases to the Environment*

No evidence of a release was observed.

### *5.1.4 Site Geology and Soil Types*

The Site is located in western Riverside County in the Peninsular Ranges province of southern California. The Site is underlain by unconsolidated younger alluvial fan deposits (defined as “Qyf”). The Qyf deposits in the Corona area consist of stiff gravelly sand deposits derived largely from volcanic and sedimentary units of Santa Ana Mountains (CDMG, 2002). According to data collected for the State Water Resources Control Board (SWRCB) GeoTracker website, soil encountered at a closed leaking underground storage tank (LUST) site (case number T0606500247) located approximately 0.5-miles north of the Site consists of dense gravelly silts and sands to 125 feet below ground surface (bgs) with granitic detritus encountered at 65 feet bgs to the total depth of the boring completed at the LUST site (EEC, 2022a).

Soil type encountered in this PEA investigation included fine- to medium-grained silty sand with trace coarse-grained sand and gravel down to total depths explored (0.5 feet bgs; Appendix A, *Boring Logs*).

## 5.2 Factors Related to Water Pathways

The PEA Guidance Manual requires that incremental risk/hazard due to the groundwater pathway be calculated. The potential release of contaminants to groundwater and subsequent volatilization, transpiration, and upward migration ultimately could impact soil, outdoor air, and indoor air provided that groundwater is near the surface, a release mechanism occurs, and a contaminant pathway exists. The groundwater pathway was not evaluated because groundwater is not considered to be a complete exposure pathway for on-site receptors, (i.e., groundwater is not used as a drinking source and is not known to be contaminated).

Based on a review of GeoTracker, the nearest active water production well is located greater than one mile northwest from the Site. No groundwater production or monitoring wells were observed on the Site during the Phase I ESA site reconnaissance.

### *5.2.1 Site Hydrogeologic Setting*

The Site is located within the Temescal Groundwater Basin which underlines the southwestern portion of the Upper Santa Ana Valley Groundwater Basin. Groundwater in the Temescal Basin flows to the northwest into the Chino Subbasin and to the southwest through the Santa Ana Canyon (CDWR, 2006). According to data collected from the SWRCB GeoTracker website, during an investigation at a former LUST site (case number T0606500247) located approximately 0.5-miles north of the Site, groundwater was encountered at approximately 115 feet bgs with a regional flow direction generally to the north-northeast (Wayne Perry, 2005).

### *5.2.2 Impacted Aquifers from Site Releases*

No evidence was found to suggest a release or threatened release from the Site to groundwater. A review of government databases did not uncover impacted sites adjacent to the School. Therefore, aquifers beneath the Site are not known or suspected to have been impacted from Site releases.

## 5.3 Factors Related to Air Pathways

The PEA Guidance Manual requires that incremental risk/hazard due to the air pathway be calculated. Non-volatile constituents bound to dust particles is the exposure media comprising the air pathway. Inhalation of outdoor air particulates (i.e., dust) potentially bound to non-volatile constituents was evaluated using the non-VOC inhalation algorithms provided in the PEA Guidance Manual.

# 6.0 SAMPLING ACTIVITIES AND RESULTS

The PEA soil sampling program consisted of the advancement of borings and collection of soil samples underneath the area where soil will be disturbed during the improvement construction activities. The locations of soil borings are shown on Figure 3, *Boring Location Map*.

The following sections describe the sampling activities and results of the PEA at the Site. Sampling was performed in accordance with EEC's DTSC-approved PEA Work Plan (EEC, 2023), the DTSC's PEA Guidance Manual, and the DTSC's Interim Guidance for Sampling Agricultural Properties (Interim Guidance), dated August 7, 2008 (DTSC, 2008).

## 6.1 Pre-field Activities

### *6.1.1 Health and Safety Plan Preparation*

EEC prepared a site-specific health and safety plan (HASP) prior to performing field activities at the Site. The HASP was reviewed daily for the scope of work and safety procedures and signed prior to the start of field activities.

### *6.1.2 Underground Service Alert Notification*

Clearance of utilities and other underground obstructions was conducted prior to initiating any subsurface activities. Underground Service Alert (USA) was notified at least two business days prior to commencing intrusive work at the Site. The USA ticket was maintained at the Site during the field investigation. No updates were necessary.

## 6.2 Sampling and Analysis

The shallow soil sampling program consisted of advancing a total of four (4) borings on June 5, 2023. Prior to soil sampling, the asphalt surface at each boring location was cored with concrete coring equipment. Following coring, EEC advanced each boring utilizing hand auger drilling methods to total depths of 0.5 feet below the asphalt surface. A single soil sample was collected from each boring from the 0.5-foot soil interval, except for one boring in which a duplicate was also collected. Samples were collected in laboratory supplied 8-ounce glass jars, sealed, and labeled, and placed in a chilled ice chest for transport to Enthalpy Analytical (Enthalpy), an Environmental Laboratory Accreditation Program (ELAP) certified laboratory, for analysis of the following:

- Arsenic by EPA Method 6020
- OCPs by EPA Method 8081A

A total of five (5) samples (four primary and one duplicate sample) were collected and analyzed. Following completion of sampling, the borings were backfilled with soil cuttings and finished with concrete to match the existing surface.

## 6.3 Discussion of Results

Laboratory analytical reports and chain-of-custody documentation for samples submitted for chemical analysis are presented in Appendix B, *Laboratory Analytical Report and Chain-of-Custody Documentation.* The analytical results are discussed in the following sections.

### *6.3.1 Screening Levels*

Where appropriate, the results are compared with regulatory limits for the chemicals and compounds identified in the applicable media.

- Concentrations of arsenic in shallow soils were compared to the DTSC's upper bound estimate (95th percentile) for background concentrations in Southern California (12 milligrams per kilogram [mg/kg]).
- Concentrations of OCPs were compared to United States EPA Region IX Regional Screening Levels (RSLs) (EPA, 2023) and the DTSC-Screening Levels (DTSC-SLs) for residential land use (DTSC, 2022).

### *6.3.2 Arsenic*

The results of the arsenic analysis are presented in Table 1, *Summary of Arsenic in Soil Samples*. Concentrations of arsenic in the five (5) soil samples (including the duplicate) collected and analyzed ranged from 5.9 mg/kg to 7.6 mg/kg. The detected concentrations did not exceed the screening level of 12 mg/kg for arsenic and are consistent with background concentrations.

### *6.3.4 Organochlorine Pesticides*

The results of the OCP analysis are presented in Table 2, *Summary of Organochlorine Pesticides in Soil Samples*. Detectable concentrations of 4,4'-DDE and 4,4'-DDT were present in two of the four soil boring locations. However, the detected concentrations did not exceed their respective RSL or DTSC-SL.

## 6.4 Quality Assurance / Quality Control (QA/QC) Measures

As a component of this investigation, quality assurance/quality control (QA/QC) was implemented for the soil sampling and analysis to ensure the reliability and comparability of the data generated during the PEA. Key QA/QC procedures included the following:

### *6.4.1 Field QA/QC*

- Appropriate documentation was maintained throughout the field program (e.g., field notes, boring logs, photographs, etc.).
- All soil samples were properly labeled and preserved in the field while awaiting transport to the laboratory under chain-of-custody control. Chilled coolers were used to preserve and transport soil samples to the off-site laboratory.
- All soil samples were analyzed within the allowable holding times established for the respective test methods.
- All reusable sampling equipment was decontaminated between sampling intervals by washing in a non-phosphate detergent (Alconox®) solution, followed by rinsing in tap water and then distilled/deionized water.

### *6.4.2 Laboratory QA/QC*

The off-site laboratory was State-certified for all test methods performed. Laboratory data was reported within the detection limits necessary as prescribed by EPA and State of California testing methodologies and guidance. Duplicate soil samples were analyzed at a minimum frequency of 10% of the total primary samples collected and were submitted to the laboratory.

Laboratory analyses included standard QA/QC procedures, including method blanks, matrix spike/matrix spike duplicates, surrogate recoveries, and laboratory control samples appropriate to the test method.

## 6.5 Field Variances

The shallow soil sampling and analysis plan was conducted in accordance with the PEA Work Plan. No field variances occurred during the PEA.

# 7.0 HUMAN HEALTH SCREENING EVALUATION

The PEA screening evaluation for human health effects involves identifying COPCs, evaluating exposure pathways and media of concern, assessing chemical toxicity, and then characterizing risk. Estimated health risks are based on a calculated dose, which integrates exposure parameters for the receptors of concern with chemical-specific toxicity criteria. The calculated risks are then compared to health-based

guidelines developed by EPA and DTSC. For the purpose of the PEA screening evaluation, the potential dose is calculated for a residential exposure scenario.

Exposure to chemicals can only occur if there is a complete pathway by which chemicals in onsite soil, water, or air can be contacted by humans. Therefore, the evaluation of exposure pathways is the first step in the human health screening evaluation. Potential hazard and risk are then calculated based on an evaluation of potential exposure concentrations of chemicals of concern, and the toxicity of the chemicals.

Although the results of the sampling have identified the lack of elevated arsenic or OCP concentrations, the human health screening evaluation has been presented to document exposure pathways, exposure media, and Site receptors.

## 7.1 Exposure Pathways and Media of Concern

### *7.1.1 Conceptual Site Model*

As discussed in previous sections, the Site is located within a predominantly residentially developed and urbanized area. The Site consists of an Aquatic Center, including a pool, locker rooms, equipment rooms, and restrooms, located on the northwestern portion of the Centennial High School. The surrounding areas to the Site are mainly occupied by residential properties.

Consistent with PEA guidance for baseline risk assessments, it is assumed that the entire Site is uncovered, and bare soil is available for contact for the purposes of the human health evaluation. Exposure to chemicals at the Site were evaluated assuming school-based receptors; it is assumed that students and faculty may be exposed to Site chemicals through incidental ingestion, dermal contact, and inhalation of soil particulates. In reality, the Site is currently paved with asphalt and concrete and covered by the footprint of the Aquatic Center structure, making the potential for direct contact with soil under existing or anticipated future site conditions very minimal.

The groundwater exposure pathway is considered incomplete because groundwater is present at depths greater than 100 feet bgs and will not be used for drinking water purposes, nor has documented contamination that can volatilize. Exposures to chemicals at the Site were evaluated using typical school exposure scenario. Figure 4 presents the CSM that links chemical sources at the Site with hypothetical receptors at the Site.

### *7.1.2 Soil Exposure Pathway*

While the current Site conditions (i.e., presence of asphalt/concrete pavements and buildings over the majority of the Site surface) would serve to limit the frequency or duration of potential soil exposure pathways, potential contact with soil by students, staff, and or construction workers may occur. For chemicals in soil, potentially complete exposure pathways include dermal contact with soil and incidental ingestion of soil.

### *7.1.3 Water Exposure Pathway*

The groundwater is not a current or proposed source of drinking water for the Site. Therefore, the groundwater exposure pathway is considered to be an incomplete exposure pathway for the purpose of this screening health risk assessment. No permanent surface water bodies occur on the Site or in close proximity to the Site. The closest water body (Main Street Wash) is located approximately 1.0 mile to the west-northwest of the Site. Therefore, exposures to surface water were not evaluated.

### *7.1.4 Air Exposure Pathway*

Exposure to chemicals detected in soil may occur via inhalation of fugitive dust. Though inhalation exposure to non-volatile compounds is typically minor in fugitive dust when compared to direct ingestion exposure, the exposure risk was still evaluated in this PEA.

## 7.2 Exposure Concentrations and Chemicals

Table 3, *Statistical Summary of COPCs in Soil Samples and Cumulative Risk Values*, summarizes the concentration ranges of arsenic and OCPs detected in soil. Table 4, *Inhalation of Fugitive Dust and Cumulative Risk Values* presents the estimated concentration in air as fugitive dust. Concentrations of arsenic did not exceed applicable screening levels during this assessment. Because concentrations were consistent with background concentrations, arsenic was not included in the health risk assessment. While OCP concentrations also did not exceed applicable screening levels during this assessment, risk calculations were performed for completeness.

### *7.2.1 Soil*

The risk and hazard index for soil is calculated using the following equations:

$$\textbf{Cancer Risk}_{\text{soil}} = SF_{\text{o}} \times \text{C}_{\text{s}} \times \frac{IR_{\text{s,adult}} \times EF \times ED_{\text{adult}} \times 10^{-6}\ \text{kg/mg}}{BW_{\text{adult}} \times AT}$$

$$+SF_{\text{o}} \times C_{\text{s}} \times \frac{IR_{\text{s,child}} \times EF \times ED_{\text{child}} \times 10^{-6}\ \text{kg/mg}}{BW_{\text{child}} \times AT}$$

$$+SF_{\text{o}} \times C_{\text{s}} \times \frac{SA_{\text{adult}} \times AF \times ABS \times EF \times ED_{\text{adult}} \times 10^{-6}\ \text{kg/mg}}{BW_{\text{adult}} \times AT}$$

$$+SF_{\text{o}} \times C_{\text{s}} \times \frac{SA_{\text{child}} \times AF \times ABS \times EF \times ED_{\text{child}} \times 10^{-6}\ \text{kg/mg}}{BW_{\text{child}} \times AT}$$

Where:

- $\text{SF}_{\text{O}}$ = Slope factor ([mg/kg-day]$^{-1}$)
- BW = body weight (80 kg-adults, 15 kg-child)
- AT = averaging time (70 years x 365 days/year; 25,550 days)
- EF = exposure frequency for soil ingestion (250 days/year)
- ED = exposure duration (10 years-adult, 6 years-child)
- $\text{IR}_{\text{S}}$ = incidental soil ingestion rate (100 mg/day-adult, 200 mg/day-child)
- SA = exposed skin surface area (6032 cm$^2$-adult, 2900 cm$^2$-child)
- AF = soil to skin adherence factor (0.07 mg/cm$^2$-adult, 0.2 mg/cm$^2$-child)
- ABS = fraction of chemical absorbed from soil
- $\text{C}_{\text{S}}$ = concentration of chemical in soil (mg/kg)

**Reduced Equation:**

$\text{Cancer Risk}_{\text{soil}} = (SF_{\text{o}} \text{ x } C_{\text{s}} \text{ x } 0.905 \text{ x } 10^{-6}) + (SF_{\text{o}} \text{ x } C_{\text{s}} \text{ x } 2.786 \text{ x } 10^{-6} \text{ x } ABS)$

$$\textbf{Hazard Index}_{\text{soil}} = (1/RfD_{\text{o}}) \times \text{C}_{\text{s}} \times \frac{IR_{\text{s,child}} \times EF \times ED_{\text{child}} \times 10^{-6}\ \text{kg/mg}}{BW_{\text{child}} \times AT}$$

$$+(1/RfD) \times C_{\text{s}} \times \frac{SA_{\text{,child}} \times \text{AF} \times \text{ABS} \times EF \times ED_{\text{child}} \times 10^{-6}\ \text{kg/mg}}{BW_{\text{child}} \times AT}$$

Where:

| | | |
|---|---|---|
| $\text{RfD}_{\text{o}}$ | = | oral reference dose (mg/kg-day) |
| BW | = | body weight (15 kg-child) |
| AT | = | averaging time (6 years x 365 days/year; 2190 days-child) |
| EF | = | exposure frequency for soil ingestion and dermal contact (250 days/year) |
| ED | = | exposure duration (6 years-child) |
| $\text{IR}_{\text{s}}$ | = | incidental soil ingestion rate (200 mg/day-child) |
| SA | = | exposed skin surface area (2900 $cm^2$-child) |
| AF | = | soil to skin adherence factor (0.2 $mg/cm^2$-child) |
| ABS | = | fraction of chemical absorbed from soil |
| $\text{C}_{\text{s}}$ | = | concentration of chemical in soil (mg/kg) |

**Reduced Equation:**

$\text{Hazard index}_{\text{soil}} = [(\text{C}_{\text{s}}/\text{RfD}) \text{ x } 0.912 \text{ x } 10^{-5}] + [(\text{C}_{\text{s}}/\text{RfD}) \text{ x } 2.65 \text{ x } 10^{-5} \text{ x ABS}]$

### *7.2.2 Air*

These are the equations used to calculate the cancer risk and hazard index due to fugitive dust inhalation.

$$\textbf{Cancer Risk}_{\text{air}} = IUR \times \text{C}_{\text{a}} \times \frac{ET \times EF \times ED_{\text{adult+child}}}{AT}$$

Where:

| | | |
|---|---|---|
| IUR | = | Inhalation unit risk factor $(\mu g/m^3)^{-1}$ |
| $\text{C}_{\text{a}}$ | = | Concentration in air $(\mu g/m^3)$ |
| EF | = | Exposure frequency (250 days/year) |
| $\text{ED}_{\text{adult+child}}$ | = | Exposure duration for resident (16 years total) |
| ET | = | Exposure time (8 hours/day) |
| AT | = | Averaging time (70 years x 365 days/year x 24 hours/day; 613,200 hours) |

**Reduced Equation:**

$\text{Risk}_{\text{air}} = \text{IUR x C}_{\text{a}} \text{ x } 0.052$

$$\textbf{Hazard Index}_{\text{air}} = \frac{1}{RfC \times 1000\ \mu\text{g/mg}} \times C_{\text{a}} \times \frac{ET \times EF \times ED_{\text{child}}}{AT}$$

Where:

| | | |
|---|---|---|
| RfC | = | Reference concentration $(mg/m^3)$ |
| $\text{C}_{\text{a}}$ | = | Concentration in air $(\mu g/m^3)$ |

EF = Exposure frequency (250 days/year)
$ED_{child}$ = Exposure duration for resident (6 years)
ET = Exposure time (8 hours/day)
AT = Averaging time (6 years x 365 days/year x 24 hours/day; 52,560 hours - child)

Reduced Equation:
$\text{Hazard Index}_{air} = 1/(\text{RfC}) \text{ x Ca x } 0.000228$

The concentration in air ($C_a$) for fugitive dust inhalation, was calculated using the following equation:

$$\mathbf{C}_a = \frac{C_s}{PEF} \times 1000\mu g/mg$$

Where:
$C_a$ = Concentration in air (µg/$m^3$)
$C_s$ = Concentration of chemical in soil (mg/kg)
PEF = Particulate Emission Factor (default = 1.36E+09 $m^3$/kg)

## 7.3 Risk Characterization Summary

Risk characterization involves estimating the magnitude of the potential adverse health effects of the hazardous chemicals under study and making judgments about the nature of the health threat to the defined receptor populations. It combines the results of the dose-response (toxicity) and exposure assessment.

Cumulative cancer risks for accidental ingestion and dermal contact were calculated as described above. The excess cancer risks were then compared to the risk level considered acceptable by federal and state regulatory agencies. The target cancer risk level identified by the DTSC in the PEA Guidance Manual is 1 in one million ($1.0 \times 10^{-06}$). However, the EPA has established acceptable incremental cancer risk levels to be within the risk range of 1 in 10,000 ($1.0 \times 10^{-04}$) and $1.0 \times 10^{-06}$; risks greater than $1.0 \times 10^{-04}$ are generally considered unacceptable. Cal-EPA has defined a risk of 1 in 100,000 ($1.0 \times 10^{-05}$) as the "no significant level" for carcinogens under California's Safe Water and Toxic Enforcement Act (Proposition 65). Further, most California air districts use the $1.0 \times 10^{-05}$ risk level as the notification "trigger level" under California's AB2588 Toxic Hot Spots Program. Thus, although agencies will exercise caution in determining whether risks within the range of $1.0 \times 10^{-04}$ and $1.0 \times 10^{-06}$ require additional investigation or some form of risk management, there is a general precedent that predicted cancer risks that are on the low end of this range will generally be considered acceptable and not warrant further evaluation.

The hazard index is compared to an acceptable hazard level. A hazard index less than the benchmark hazard level of 1.0 indicates that no adverse health effects are predicted from exposure to COPCs at the Site.

### *7.3.1 Cancer Risk*

The cancer risks for exposure to chemicals in soil is presented in Tables 3 and 4. Cancer risk for each route of exposure is summarized below.

| Exposure Pathway | Cancer Risk |
|---|---|
| Accidental Ingestion of Soil and Dermal Contact with Soil | $3.40 \times 10^{-08}$ |
| Inhalation of Fugitive Dust | $3.71 \times 10^{-13}$ |
| ***Estimated Cumulative Cancer Risk*** | ***$3.40 \times 10^{-08}$*** |

The estimated cumulative cancer risk is well below the DTSC target risk screening goal of $1.0 \times 10^{-06}$.

### *7.3.2 Non-Cancer Hazard*

The estimated hazard indices are presented in Tables 3 and 4. The hazard index estimated for each exposure route is presented below.

| Exposure Pathway | Hazard Index |
|---|---|
| Accidental Ingestion of Soil and Dermal Contact with Soil | $2.33 \times 10^{-03}$ |
| Inhalation of Fugitive Dust | $2.58 \times 10^{-08}$ |
| ***Estimated Cumulative Hazard Index*** | ***$2.33 \times 10^{-03}$*** |

The cumulative hazard index is below the benchmark value of 1.0.

## 7.4 Uncertainty Analysis

The frequency and duration of soil contact activities would be a significant factor affecting the potential for adverse human health impacts from the Site.

This health risk evaluation was based on the application of conservative methods and assumptions in all phases of the assessment. Because exposure point concentrations were derived from fate and transport modeling, conservative assumptions and methodology were necessarily employed to eliminate the possibility of underestimating risks. This practice, although commonly used in the risk assessment process to eliminate the possibility of underestimating risk, necessarily introduces a significant level of conservatism in the conclusions derived from the assessment. Examples of some of the conservatism in this assessment include:

- It was assumed that hypothetical residential receptors will be exposed simultaneously to all COPCs at concentrations equal to all the maximum detected concentrations (or 95% UCL concentrations if applicable) across the Site. In reality, current receptors are likely to be exposed to a few chemicals at a time and only to concentrations centered around the average soil chemical concentrations.
- It was assumed that current receptors at the Site would be exposed to chemicals in soil and dust 100 percent of the time while at the Site. In reality, a resident will unlikely be exposed to the same maximum detections for 350 days per year for 30 years.
- It was assumed that current occupants of the Site would have contact with soil. However, it is known that much of the Site surface area is occupied by buildings, asphalt, or concrete, and

improvements activities will result in hardscape ground coverings. Thus, contact with soil will be minimized.

- Carcinogenic risks for all pathways were based on an exposure scenario for a school site of 250 days per year for a duration of 6 to 10 years, representing a typical school exposure scenario.

# 8.0 ECOLOGICAL SCREENING EVALUATION

## 8.1 Site Characterization

The Site is located within a developed and urbanized area in the city of Corona, Riverside County, California. The Site is currently developed as an Aquatic Center for the high school. Surrounding areas are mainly occupied by residential properties.

## 8.2 Biological Characterization

Native wildlife does not exist within the limits of the project area. During bird migratory periods or dispersal movements, individuals of sensitive bird species may be present as transitory birds. Small populations of urban adapted amphibian and reptile species and small animals may be present in the nearby residential areas, especially where gardens and landscape groundcover, such as ivy, are maintained. None of the animals, reptile or amphibian species, which may be present in the vicinity are known to be threatened or endangered. As for the Site, due to the highly developed state, the likelihood of such species occurring is very low.

## 8.3 Ecological Pathway Assessment

The Site is developed as an Aquatic Center for a school and does not support any vegetation or provide native wildlife or habitat. Due to the lack of native vegetation and wildlife habitat, ecologically sensitive species do not exist within the vicinity of the Site. The nearest ecological habitat to the Site is the Coal Canyon Ecological Reserve located are the foothills of the Santa Monica Mountains, located 7.2 miles to the west.

## 8.4 Ecological Screening Evaluation Summary

The Site is located within a residential developed area. No natural habitats are known to exist within the vicinity of the Site, therefore, there does not appear to be a significant pathway of exposure to ecologically sensitive species.

# 9.0 CONCLUSIONS AND RECOMMENDATIONS

## 9.1 Summary and Conclusions

The Site is the Aquatic Center located at Centennial High School, which is a fully operational CNUSD school. The Site is scheduled to undergo improvements, which include increasing the pool size to a 50-meter pool, expanding the pool area to account for the larger pool and bleacher, replacing the existing locker room, restroom, and pool equipment building, and installing new covered bleachers.

Investigation activities included a Phase I ESA completed by EEC in September 2022. The DTSC provided comments on the Phase I ESA in October 2022 and EEC subsequently prepared a RTC to address the DTSC's comments. The Phase I ESA included research of available Site background information, including regulatory agency database lists and agency file searches, did not reveal documentation of any known release(s) of hazardous materials at the Site. However, the former use of the School for agricultural purposes and lack of sampling in the area of the Site was identified as a REC.

Based on the identified REC, EEC prepared a PEA Work Plan to assess the Site for impacts. The PEA Work Plan was approved by the DTSC on May 16, 2023.

The PEA activities were conducted on June 5, 2023. As part of the PEA investigation, EEC completed the following soil sampling program:

- Four shallow soil borings advanced where soil will be disturbed during construction activities. Soil samples were collected at depths just below the asphalt surface to 0.5 feet bgs. The soil samples collected from each boring were analyzed for arsenic and OCPs.

The results of the PEA activities described in this document identified the presence of arsenic and OCPs in soil, however, concentrations were not detected above applicable screening levels and were consistent with background concentrations (e.g., arsenic).

A Human Health Screening Evaluation was conducted to estimate the cumulative cancer risk and hazard index posed to Site occupants by exposure to COPC-impacted soil. Given that the concentrations of arsenic are consistent with generally recognized background levels, arsenic was not retained for quantitative analysis in the health risk assessment. Although OCPs did not exceed applicable screening levels, the cancer risk and hazard index were calculated for completeness. The cumulative cancer risk based on the maximum concentrations identified at the site is $3.40 \times 10^{-08}$. This value is below the DTSC's target risk value of $1 \times 10^{-06}$. The estimated hazard index of $2.33 \times 10^{-03}$ is below the benchmark level for noncancerous effects (1.0).

## 9.2 Recommendations

Based on the findings and conclusions of this PEA investigation, EEC recommends no additional investigation at the Site, and concludes that soil disturbed during construction activities has no special handling or disposal restrictions.

## 10.0 REFERENCES

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# TABLES

# Table 1, Summary of Arsenic in Soil Samples

CNUSD Centennial High School
1820 Rimpau Avenue, Corona, California

| Sample ID | Date | Arsenic (mg/kg) |
|---|---|---|
| | | USEPA 6020 |
| ***Southern California Background*** [(1)] | | ***12*** |
| B1-0.5 | 6/5/2023 | 6.9 |
| B1-0.5 DUP | 6/5/2023 | 7.6 |
| B2-0.5 | 6/5/2023 | 5.9 |
| B3-0.5 | 6/5/2023 | 6.9 |
| B4-0.5 | 6/5/2023 | 6.1 |

**Key:**

mg/kg = milligrams per kilogram

DTSC = Department of Toxic Substances Control

DUP = Duplicate sample

USEPA= United States Environmental Protection Agency

**Notes:**

[(1)] = DTSC upper bound estimate (95th) percentile for background concentrations in Southern California soil, 2008

**Table 2, Summary of Organochlorine Pesticides in Soil Samples**
CNUSD Centennial High School
1820 Rimpau Avenue, Corona, California

| Sample ID | Date | 4,4'-DDD (µg/kg) | 4,4'-DDE (µg/kg) | 4,4'-DDT (µg/kg) | Aldrin (µg/kg) | alpha-BHC (µg/kg) | beta-BHC (µg/kg) | Chlordane (ug/Kg) | delta-BHC (µg/kg) | Dieldrin (µg/kg) | Endosulfan I (µg/kg) | Endosulfan II (µg/kg) | Endosulfan sulfate (µg/kg) | Endrin (µg/kg) | Endrin aldehyde (µg/kg) | Endrin Ketone (µg/kg) | gamma-BHC (Lindane) (µg/kg) | Heptachlor (µg/kg) | Heptachlor epoxide (µg/kg) | Methoxychlor (µg/kg) | Toxaphene (µg/kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | USEPA 8081A | | | | | | | | | | | | | | | | | | | |
| ***USEPA Residential Screening Levels*** [(1)] | | ***2,300*** | ***2,000*** | ***1,900*** | ***39*** | ***86*** | ***300*** | ***1,700*** | ***--*** | ***34*** | ***470,000*** | ***--*** | ***380,000*** | ***19,000*** | ***--*** | ***--*** | ***570*** | ***130*** | ***70*** | ***320,000*** | ***490*** |
| ***DTSC-SLs*** [(2)] | | ***2,300*** | ***2,000*** | ***1,900*** | ***39*** | ***86*** | ***300*** | ***1,700*** | ***--*** | ***34*** | ***450,000*** [(3)] | ***--*** | ***380,000*** [(3)] | ***19,000*** [(3)] | ***--*** | ***--*** | ***570*** | ***130*** | ***70*** | ***320,000*** [(3)] | ***450*** |
| B1-0.5 | 6/5/2023 | ND<5.0 | ND<5.0 | ND<5.0 | ND<5.0 | ND<5.0 | ND<5.0 | ND<50 | ND<5.0 | ND<5.0 | ND<5.0 | ND<5.0 | ND<5.0 | ND<5.0 | ND<5.0 | ND<5.0 | ND<5.0 | ND<5.0 | ND<5.0 | ND<10 | ND<100 |
| B1-0.5 DUP | 6/5/2023 | ND<5.0 | ND<5.0 | ND<5.0 | ND<5.0 | ND<5.0 | ND<5.0 | ND<50 | ND<5.0 | ND<5.0 | ND<5.0 | ND<5.0 | ND<5.0 | ND<5.0 | ND<5.0 | ND<5.0 | ND<5.0 | ND<5.0 | ND<5.0 | ND<10 | ND<100 |
| B2-0.5 | 6/5/2023 | ND<5.0 | ND<5.0 | ND<5.0 | ND<5.0 | ND<5.0 | ND<5.0 | ND<50 | ND<5.0 | ND<5.0 | ND<5.0 | ND<5.0 | ND<5.0 | ND<5.0 | ND<5.0 | ND<5.0 | ND<5.0 | ND<5.0 | ND<5.0 | ND<10 | ND<100 |
| B3-0.5 | 6/5/2023 | ND<5.0 | 23 | 6.6 | ND<5.0 | ND<5.0 | ND<5.0 | ND<50 | ND<5.0 | ND<5.0 | ND<5.0 | ND<5.0 | ND<5.0 | ND<5.0 | ND<5.0 | ND<5.0 | ND<5.0 | ND<5.0 | ND<5.0 | ND<10 | ND<100 |
| B4-0.5 | 6/5/2023 | ND<5.0 | 11 | 7.7 | ND<5.0 | ND<5.0 | ND<5.0 | ND<50 | ND<5.0 | ND<5.0 | ND<5.0 | ND<5.0 | ND<5.0 | ND<5.0 | ND<5.0 | ND<5.0 | ND<5.0 | ND<5.0 | ND<5.0 | ND<10 | ND<100 |

**Key:**
µg/kg = micrograms per kilogram
DTSC = Department of Toxic Substances Control
DUP = Duplicate sample
ND< X = not detected at or above the reporting limit
USEPA= United States Environmental Protection Agency

**Notes:**
[(1)] = USEPA Region IX Regional Screening Levels for Residential Soil, Cancer Endpoint, updated May 2023
[(2)] = DTSC Office of Human and Ecological Risk Office (HERO) Note 3 Modified Screening Levels for Residential Soil, June 2020 revised May 2022
[(3)]= DTSC Office of Human and Ecological Risk Office (HERO) Note 3 Modified Screening Levels for Residential Soil, Non-caner Endpoint, June 2020 revised May 2022
**Bold** = Analyte detected above screening level

**Table 3, Statistical Summary of COPCs in Soil Samples and Cumulative Risk Values**

Human Health Risk Assessment

CNUSD Centennial High School

1820 Rimpau Avenue, Corona, CA

| Constituent | Sample Summary[a] | | | Concentration Range | | | | | Soil Screening Levels[c] | 95% UCL[d] | Exposure Point Concentration[e] | Calculated Cancer Risk | Calculated Hazard Index |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Number of Samples | Number of Detections | Percent Detected | Minimum Concentration | Location of Minimum | Maximum Concentration | Location of Maximum | Arithmetic Mean Concentration[b] | | | | | |
| **Metals (mg/kg)** | | | | | | | | | | | | | |
| Arsenic | 5 | 5 | 100% | 5.9 | B4-0.5 | 7.6 | B1-0.5 DUP | 6.7 | 12 | -- | 7.6 | -- | -- |
| **Pesticides (mg/kg)** | | | | | | | | | | | | | |
| 4,4'-DDE | 5 | 2 | 40% | 0.011 | B4-0.5 | 0.023 | B3-0.5 | 0.017 | 2.0 | -- | 0.023 | 8.17E-09 | 8.01E-04 |
| 4,4'-DDT | 5 | 2 | 40% | 0.0066 | B3-0.5 | 0.0077 | B4-0.5 | 0.077 | 1.9 | -- | 0.077 | 2.59E-08 | 1.53E-03 |
| | | | | | | | | | | | **Cumulative Risk** | **3.40E-08** | **2.33E-03** |

**Key:**

-- = not applicable or not calculated. Arsenic is within background levels so it was excluded from the risk assessment.

(a) = Dataset includes duplicate samples

(b) = Mean concentrations calculated with detected values only

(c) = EPA Region IV Regional Screening Levels or DTSC-SL

(d) = The 95% Upper Confidence Limit (UCL) was not calculated since the mximum concentration detected was below the screening level.

(e) = The exposure point concentration (EPC) is the maximum concentration (if that concentration is below its respective screening level).

COPC = Chemical of potential concern

mg/kg = milligrams per kilogram

**Note:**

Cancer risk and hazard index calculated in accordance with the Department of Toxic Substances Control (DTSC) Preliminary Endangerment Assessment(PEA) Guidance Manual (2015)

# Table 4, Inhalation of Fugutive Dust and Cumulative Risk Values

Human Health Risk Assessment
CNUSD Centennial High School
1820 Rimpau Avenue, Corona, CA

| Constituent | Exposure Point Concentration[(a)] | Concentation in Air[(b)] | Calculated Cancer Risk | Calculated Hazard Index |
|---|---|---|---|---|
| **Metals (mg/kg)** | | **µg/m$^3$** | | |
| Arsenic | 7.6 | 5.59E-06 | -- | -- |
| **Pesticides (mg/kg)** | | **µg/m$^3$** | | |
| 4,4'-DDE | 0.023 | 1.69E-08 | 8.53E-14 | 0.00E+00 |
| 4,4'-DDT | 0.077 | 5.66E-08 | 2.86E-13 | 2.58E-08 |
| | | **Cumulative Risk** | **3.71E-13** | **2.58E-08** |

**Key:**

-- = not applicable or not calculated. Arsenic concentrations are within background levels so they were excluded from risk assessments.

(a) = The exposure point concentration (EPC) is the maximum concentration (if that concentration is below its respective screenign level).

(b) = Air concentration = EPC/PEF x 1000 µg/mg [Department of Toxic Substances Control (DTSC) PEA Guidance Manual, 2015]

PEF = Particulate Emission Factor (default = 1.36E+09 m$^3$/kg)

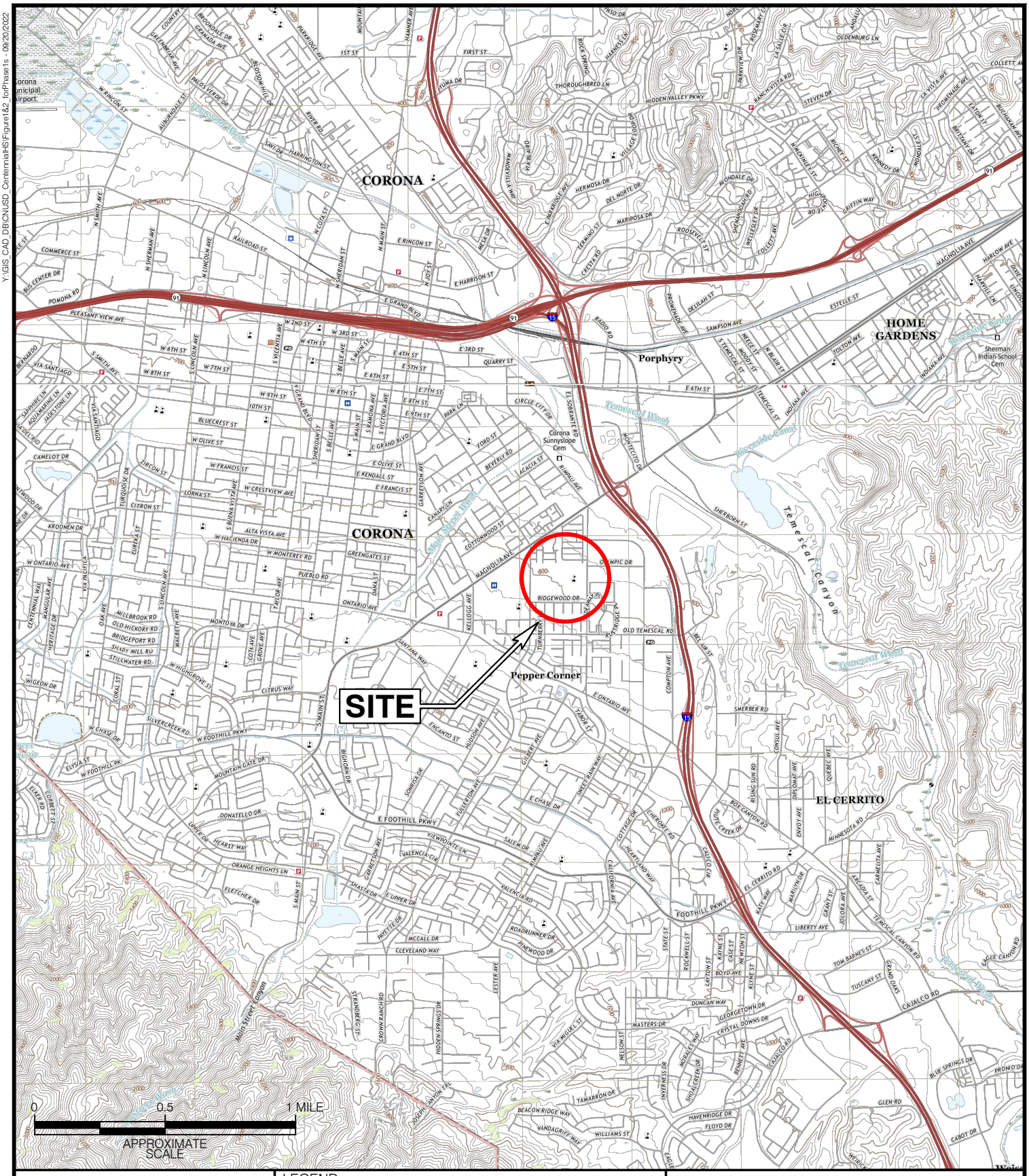
mg/kg = milligrams per kilogram

µg/m$^3$ = micrograms per cubic meter

**Note:**

Cancer risk and hazard index calculated in accordance with the DTSC PEA Guidance Manual (2015)

# FIGURES




Y:\GIS_CAD_DB\CNUSD_CentennialHS\Figure1&2_forPhase1s - 09/20/2022

EEC ENVIRONMENTAL

LEGEND

Site Location

Map Source: U.S. Geological Survey, 7.5-Minute Topographic Quadrangle Map
Corona South and Corona North, CA; 2022

# SITE VICINITY MAP

Centennial High School Aquatic Center
1820 Rimpau Avenue
Corona, California

| Date | Drafter | PE/PG | Project Number | Figure |
|---|---|---|---|---|
| July 2023 | AC | MZ | S-3757.01T | 1 |
| | | Project Manager: BP | File: Figure1&2_forPhase1s | |

Y:\GIS CAD DB\Centennial HS\Centennial HS 1 - 04/11/2023




LEGEND

Approximate Site Boundary

Notes:
Map Source: Google Earth

N

0 140 ' 280 '

APPROXIMATE SCALE

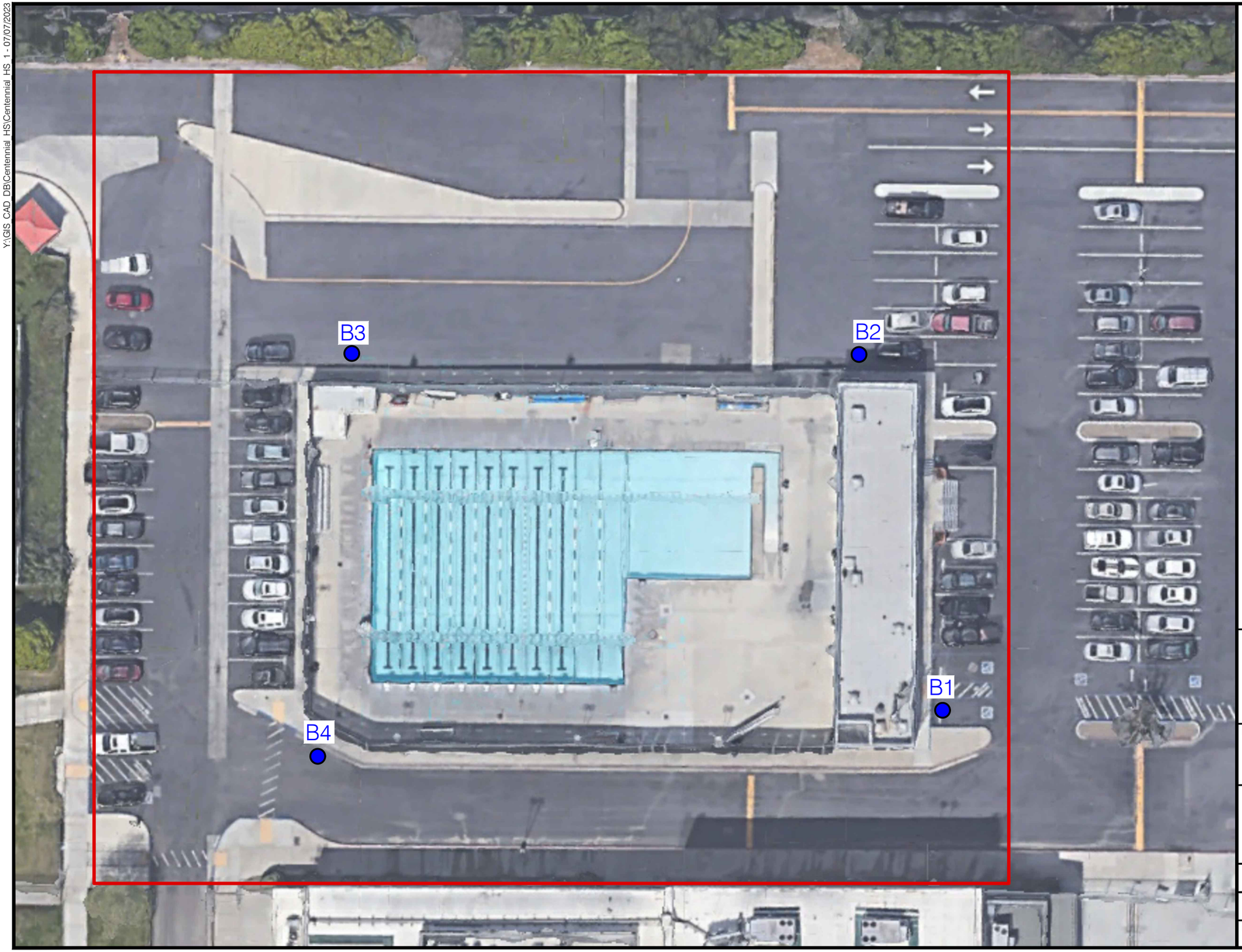
EEC ENVIRONMENTAL

Project
Centennial High School Aquatic Center
1820 Rimpau Avenue
Corona, California

**SITE LOCATION MAP**

| Project Number | File Number | Figure |
|---|---|---|
| S-3757.01T | Centennial HS 1 | 2 |
| Date: April 11, 2023 | | |
| PE/PG: MZ | PM: BP | Drafter: AC |

Y:\GIS_CAD_DB\Centennial_HS\Centennial_HS_1 - 07/07/2023




LEGEND

Approximate Site Boundary

Approximate Boring Location

Notes:
Map Source: Google Earth

0 30 ' 60 '

APPROXIMATE SCALE

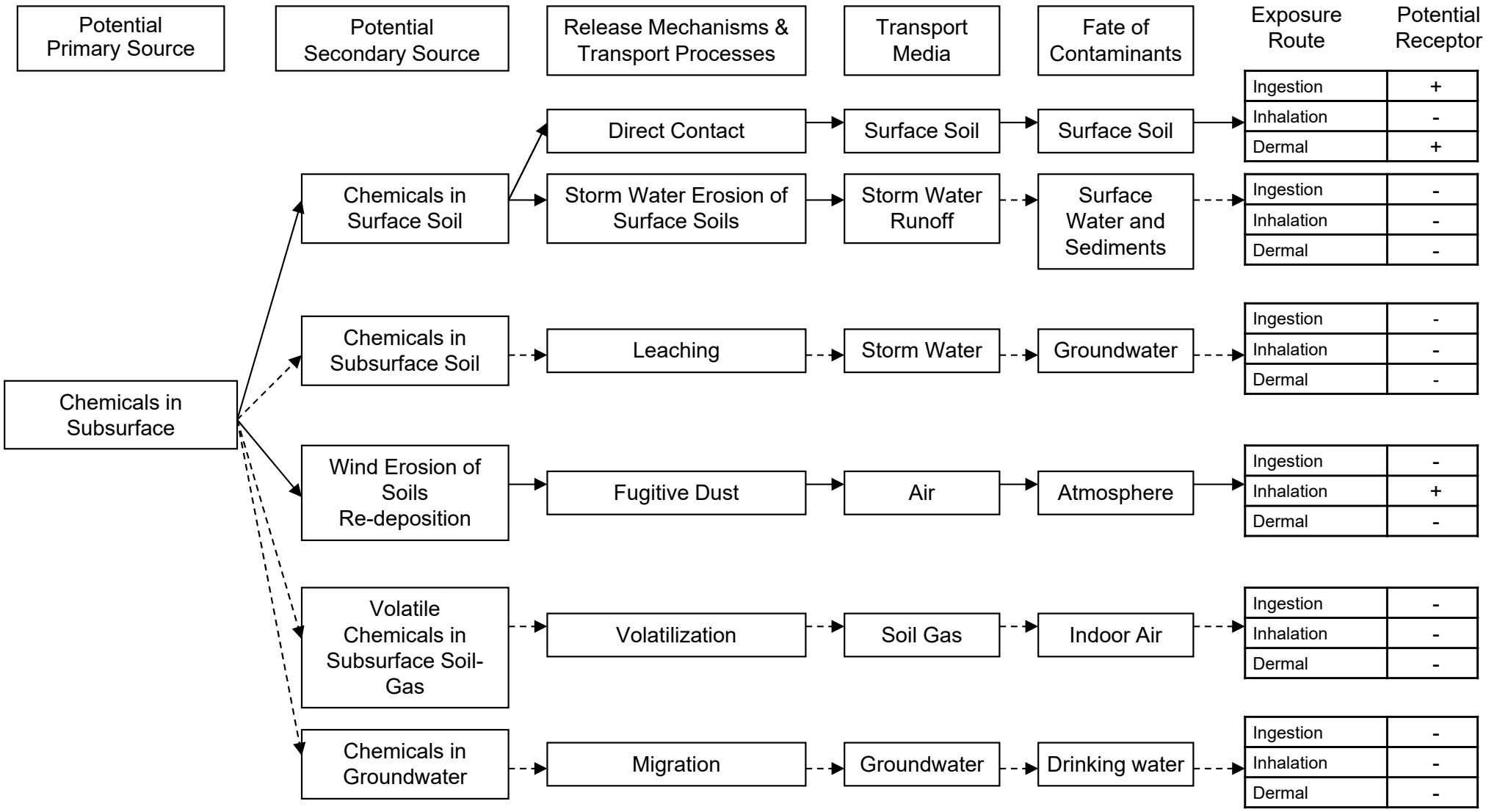
EEC ENVIRONMENTAL

Project
Centennial High School Aquatic Center
1820 Rimpau Avenue
Corona, California

**BORING LOCATION MAP**

| Project Number | File Number | Figure |
|---|---|---|
| S-3757.01T | Centennial_HS_1 | 3 |
| Date: July 7, 2023 | | |
| PE/PG: MZ | PM: BP | Drafter: AC |

# Figure 4 – Conceptual Site Model
# CNUSD Centennial High School Aquatic Center, Corona, CA



# APPENDIX A
# BORING LOGS

EEC ENVIRONMENTAL

# B1

(Page 1 of 1)

| | |
|---|---|
| Project No.: | : S-3757 |
| Site: | : Centennial High School Aquatic Center |
| Logged By: | : Bina Patel |
| Reviewed By: | : Mark Zeko, PG |

| | |
|---|---|
| Date Drilled | : 6/5/2023 |
| Drilling Company | : EEC Environmental |
| Drilling Method | : Hand Auger |
| Sampling Method | : Grab |
| Borehole Diameter | : 3 inches |
| Casing Diameter | : NA |
| Location N-S | : NA |
| Location E-W | : NA |
| Total Boring Depth | : 0.5 feet below asphalt surface |
| First GW Depth | Not Encountered |

Sample Condition
- No Recovery
- Sampled Interval
- Described Sample
- Preserved Sample

Water Levels
- Groundwater After Completion
- Groundwater During Drilling

Bore: B1

| Depth (ft) | PID (ppmv) | Sample Time | Sample Interval | Column | USCS | DESCRIPTION (%clay/silt/sand/gravel) |
|---|---|---|---|---|---|---|
| 0.0 | | | | | | 6" of Asphalt<br>Cored 3" Diameter |
| 0.5 | | 0737 | | | SM | SILTY SAND, fine to medium grained, dark brown (7.5YR, 3/3), moist, trace coarse grains and gravel, no odor, no staining (0/40/55/5) |
| 1.0 | | | | | | |

Concrete

Native Soil

The descriptive information for classification symbol and name of soil is based on ASTM D2488 Standard Practice for Description and Identification of Soils (Visual-Manual Procedure).

EEC ENVIRONMENTAL

# B2

(Page 1 of 1)

| | |
|---|---|
| Project No.: | : S-3757 |
| Site: | : Centennial High School Aquatic Center |
| Logged By: | : Bina Patel |
| Reviewed By: | : Mark Zeko, PG |

| | |
|---|---|
| Date Drilled | : 6/5/2023 |
| Drilling Company | : EEC Environmental |
| Drilling Method | : Hand Auger |
| Sampling Method | : Grab |
| Borehole Diameter | : 3 inches |
| Casing Diameter | : NA |
| Location N-S | : NA |
| Location E-W | : NA |
| Total Boring Depth | : 0.5 feet below asphalt surface |
| First GW Depth | Not Encountered |

Sample Condition
- No Recovery
- Sampled Interval
- Described Sample
- Preserved Sample

Water Levels
- Groundwater After Completion
- Groundwater During Drilling

Bore: B2

| Depth (ft) | PID (ppmv) | Sample Time | Sample Interval | Column | USCS | DESCRIPTION (%clay/silt/sand/gravel) |
|---|---|---|---|---|---|---|
| 0.0 | | | | | | 6" of Asphalt<br>Cored 3" Diameter |
| 0.5 | | 0805 | | | SM | SILTY SAND, fine to medium grained, dark brown (7.5YR, 3/3), moist, trace coarse grains and gravel, no odor, no staining (0/40/55/5) |
| 1.0 | | | | | | |

Concrete

Native Soil

The descriptive information for classification symbol and name of soil is based on ASTM D2488 Standard Practice for Description and Identification of Soils (Visual-Manual Procedure).

EEC ENVIRONMENTAL

# B3

(Page 1 of 1)

| | |
|---|---|
| Project No.: | : S-3757 |
| Site: | : Centennial High School Aquatic Center |
| Logged By: | : Bina Patel |
| Reviewed By: | : Mark Zeko, PG |

| | |
|---|---|
| Date Drilled | : 6/5/2023 |
| Drilling Company | : EEC Environmental |
| Drilling Method | : Hand Auger |
| Sampling Method | : Grab |
| Borehole Diameter | : 3 inches |
| Casing Diameter | : NA |
| Location N-S | : NA |
| Location E-W | : NA |
| Total Boring Depth | : 0.5 feet below asphalt surface |
| First GW Depth | Not Encountered |

Sample Condition
- No Recovery
- Sampled Interval
- Described Sample
- Preserved Sample

Water Levels
- Groundwater After Completion
- Groundwater During Drilling

Bore: B3

| Depth (ft) | PID (ppmv) | Sample Time | Sample Interval | Column | USCS | DESCRIPTION (%clay/silt/sand/gravel) |
|---|---|---|---|---|---|---|
| 0.0 | | | | | | 6" of Asphalt<br>Cored 3" Diameter |
| 0.5 | | 0833 | | | SM | SILTY SAND, fine to medium grained, brown (7.5YR, 4/3), moist, trace coarse grains and gravel, no odor, no staining (0/40/55/5) |
| 1.0 | | | | | | |

Concrete

Native Soil

The descriptive information for classification symbol and name of soil is based on ASTM D2488 Standard Practice for Description and Identification of Soils (Visual-Manual Procedure).

EEC ENVIRONMENTAL

# B4

(Page 1 of 1)

| | |
|---|---|
| Project No.: | : S-3757 |
| Site: | : Centennial High School Aquatic Center |
| Logged By: | : Bina Patel |
| Reviewed By: | : Mark Zeko, PG |

| | |
|---|---|
| Date Drilled | : 6/5/2023 |
| Drilling Company | : EEC Environmental |
| Drilling Method | : Hand Auger |
| Sampling Method | : Grab |
| Borehole Diameter | : 3 inches |
| Casing Diameter | : NA |
| Location N-S | : NA |
| Location E-W | : NA |
| Total Boring Depth | : 0.5 feet below asphalt surface |
| First GW Depth | Not Encountered |

Sample Condition
- No Recovery
- Sampled Interval
- Described Sample
- Preserved Sample

Water Levels
- Groundwater After Completion
- Groundwater During Drilling

Bore: B4

| Depth (ft) | PID (ppmv) | Sample Time | Sample Interval | Column | USCS | DESCRIPTION (%clay/silt/sand/gravel) |
|---|---|---|---|---|---|---|
| 0.0 | | | | | | 6" of Asphalt<br>Cored 3" Diameter |
| 0.5 | | 0900 | | | SM | SILTY SAND, fine to medium grained, brown (7.5YR, 4/3), moist, trace coarse grains and gravel, no odor, no staining (0/40/55/5) |
| 1.0 | | | | | | |

Concrete

Native Soil

The descriptive information for classification symbol and name of soil is based on ASTM D2488 Standard Practice for Description and Identification of Soils (Visual-Manual Procedure).

# APPENDIX B
# LABORATORY ANALYTICAL REPORTS AND CHAIN OF CUSTODY DOCUMENTATION

Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

| | |
|---|---|
| Lab Job Number: | 486233 |
| Report Level: | II |
| Report Date: | 06/12/2023 |

**Analytical Report** *prepared for:*

Bina Patel
EEC
1 City Boulevard West
Suite 1800
Orange, CA 92868

Location: Centennial High School, 1820 Kimpau Ave, Corona, CA

*Authorized for release by:*



David Tripp, Project Manager
657-581-4710
david.tripp@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105

ENTHALPY ANALYTICAL

# Sample Summary

| | | |
|---|---|---|
| Bina Patel<br>EEC<br>1 City Boulevard West<br>Suite 1800<br>Orange, CA 92868 | Lab Job #:<br>Location:<br><br>Date Received: | 486233<br>Centennial High School, 1820 Kimpau Ave, Corona, CA<br>06/05/23 |

| Sample ID | Lab ID | Collected | Matrix |
|---|---|---|---|
| B1-0.5 | 486233-001 | 06/05/23 07:37 | Soil |
| B1-0.5 DUP | 486233-002 | 06/05/23 07:38 | Soil |
| B2-0.5 | 486233-003 | 06/05/23 08:05 | Soil |
| B3-0.5 | 486233-004 | 06/05/23 08:33 | Soil |
| B4-0.5 | 486233-005 | 06/05/23 09:00 | Soil |

ENTHALPY ANALYTICAL

| Chain of Custody Record | | Turn Around Time (rush by advanced notice only) | | | | | |
|---|---|---|---|---|---|---|---|
| Lab No: | 486233 | Standard: | X | 5 Day: | | 3 Day: | |
| Page: | 1 of 1 | 2 Day: | | 1 Day: | | Custom TAT: | |

**<<< Select a Laboratory >>>**

#N/A

#N/A

**Matrix:** A = Air S = Soil/Solid W = Water DW = Drinking Wate SD = Sediment PP = Pure Product SEA = Sea Water SW = Swab T = Tissue WP = Wipe O = Other

**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = $HNO_3$ 4 = $H_2SO_4$ 5 = NaOH 6 = Other

**Sample Receipt Temp:** 8.9/3.5 (lab use only)

| CUSTOMER INFORMATION | | PROJECT INFORMATION | |
|---|---|---|---|
| Company: | EEC Environmental | Name: | Centennial High School |
| Report To: | Bina Patel | Number: | S-3757 |
| Email: | bpatel@eecenvironmental.com | P.O. #: | S-3757 |
| Address: | One City Blvd West, Ste 1800 | Address: | 1820 Kimpau Ave |
| | Orange, CA 92868 | | Corona, CA |
| Phone: | 714-404-1770 | Global ID: | |
| Fax: | — | Sampled By: | B. Patel |

**Analysis Request** / **Test Instructions / Comments**

| | Sample ID | Sampling Date | Sampling Time | Matrix | Container No. / Size | Pres. | Arsenic (6020) | OCPS (8081A) | | | | | | | | | Test Instructions / Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | B1-0.5 | 6/5/23 | 0737 | Soil | 1x8oz. Jar | N | X | X | | | | | | | | | |
| 2 | B1-0.5 DUP | ↓ | 0738 | ↓ | ↓ | ↓ | X | X | | | | | | | | | |
| 3 | B2-0.5 | ↓ | 0805 | ↓ | ↓ | ↓ | X | X | | | | | | | | | |
| 4 | B3-0.5 | ↓ | 0833 | ↓ | ↓ | ↓ | X | X | | | | | | | | | |
| 5 | B4-0.5 | ↓ | 0900 | ↓ | ↓ | ↓ | X | X | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | |

| | Signature | Print Name | Company / Title | Date / Time |
|---|---|---|---|---|
| 1 Relinquished By: | BP ~~Bina~~ [signature] | Bina Patel | EEC / Project Geologist | 6/5/23 / 1026. |
| 1 Received By: | [signature] Sylvestri | Geena Sylvestri | E.A. | 6/5/23 10:26 |
| 2 Relinquished By: | | | | |
| 2 Received By: | | | | |
| 3 Relinquished By: | | | | |
| 3 Received By: | | | | |

ENTHALPY ANALYTICAL

# SAMPLE ACCEPTANCE CHECKLIST

**Section 1**

Client: EEC

Project: Centennial High School

Date Received: 6/5/23

Sampler's Name Present: ☑ Yes ☐ No

**Section 2**

Sample(s) received in a cooler? ☑ Yes, How many? 1 ☐ No (skip section 2)

Sample Temp (°C) (No Cooler): _____

Sample Temp (°C), One from each cooler: #1: 3.9 #2: _____ #3: _____ #4: _____

*(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)*

Shipping Information: _____

**Section 3**

Was the cooler packed with: ☑ Ice ☐ Ice Packs ☐ Bubble Wrap ☐ Styrofoam ☐ Paper ☐ None ☐ Other _____

Cooler Temp (°C): #1: 3.5 #2: _____ #3: _____ #4: _____

| **Section 4** | YES | NO | N/A |
|---|---|---|---|
| Was a COC received? | ✔ | | |
| Are sample IDs present? | ✔ | | |
| Are sampling dates & times present? | ✔ | | |
| Is a relinquished signature present? | ✔ | | |
| Are the tests required clearly indicated on the COC? | ✔ | | |
| Are custody seals present? | | ✔ | |
| If custody seals are present, were they intact? | | | ✔ |
| Are all samples sealed in plastic bags? (Recommended for Microbiology samples) | | | ✔ |
| Did all samples arrive intact? If no, indicate in Section 4 below. | ✔ | | |
| Did all bottle labels agree with COC? (ID, dates and times) | ✔ | | |
| Were the samples collected in the correct containers for the required tests? | ✔ | | |
| Are the containers labeled with the correct preservatives? | | | ✔ |
| Is there headspace in the VOA vials greater than 5-6 mm in diameter? | | | ✔ |
| Was a sufficient amount of sample submitted for the requested tests? | ✔ | | |

**Section 5** Explanations/Comments

**Section 6**

For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: _____ Date/Time _____

☐ Email (email sent to/on): _____ / _____

Project Manager's response:

Completed By: _____ Date: JUN 05 2023

ENTHALPY ANALYTICAL

# Analysis Results for 486233

Bina Patel
EEC
1 City Boulevard West
Suite 1800
Orange, CA 92868

Lab Job #: 486233
Location: Centennial High School, 1820 Kimpau Ave, Corona, CA
Date Received: 06/05/23

**Sample ID: B1-0.5** **Lab ID: 486233-001** **Collected: 06/05/23 07:37**
**Matrix: Soil**

| 486233-001 Analyte | Result | Qual | Units | RL | DF | Batch | Prepared | Analyzed | Chemist |
|---|---|---|---|---|---|---|---|---|---|
| Method: EPA 6020<br>Prep Method: EPA 3050B | | | | | | | | | |
| Arsenic | **6.9** | | mg/Kg | 0.98 | 0.98 | 315473 | 06/06/23 | 06/06/23 | JCP |
| Method: EPA 8081A<br>Prep Method: EPA 3546 | | | | | | | | | |
| alpha-BHC | ND | | ug/Kg | 5.0 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| beta-BHC | ND | | ug/Kg | 5.0 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| gamma-BHC | ND | | ug/Kg | 5.0 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| delta-BHC | ND | | ug/Kg | 5.0 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| Heptachlor | ND | | ug/Kg | 5.0 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| Aldrin | ND | | ug/Kg | 5.0 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| Heptachlor epoxide | ND | | ug/Kg | 5.0 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| Endosulfan I | ND | | ug/Kg | 5.0 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| Dieldrin | ND | | ug/Kg | 5.0 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| 4,4'-DDE | ND | | ug/Kg | 5.0 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| Endrin | ND | | ug/Kg | 5.0 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| Endosulfan II | ND | | ug/Kg | 5.0 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| Endosulfan sulfate | ND | | ug/Kg | 5.0 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| 4,4'-DDD | ND | | ug/Kg | 5.0 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| Endrin aldehyde | ND | | ug/Kg | 5.0 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| Endrin ketone | ND | | ug/Kg | 5.0 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| 4,4'-DDT | ND | | ug/Kg | 5.0 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| Methoxychlor | ND | | ug/Kg | 10 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| Toxaphene | ND | | ug/Kg | 100 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| Chlordane (Technical) | ND | | ug/Kg | 50 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| **Surrogates** | | | | **Limits** | | | | | |
| TCMX | 84% | | %REC | 23-120 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| Decachlorobiphenyl | 70% | | %REC | 24-120 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |



Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

# Analysis Results for 486233

| Sample ID: B1-0.5 DUP | Lab ID: 486233-002 | Collected: 06/05/23 07:38 |
|---|---|---|
| | Matrix: Soil | |

| 486233-002 Analyte | Result | Qual | Units | RL | DF | Batch | Prepared | Analyzed | Chemist |
|---|---|---|---|---|---|---|---|---|---|
| Method: EPA 6020<br>Prep Method: EPA 3050B | | | | | | | | | |
| Arsenic | **7.6** | | mg/Kg | 0.99 | 0.99 | 315473 | 06/06/23 | 06/06/23 | JCP |
| Method: EPA 8081A<br>Prep Method: EPA 3546 | | | | | | | | | |
| alpha-BHC | ND | | ug/Kg | 5.0 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| beta-BHC | ND | | ug/Kg | 5.0 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| gamma-BHC | ND | | ug/Kg | 5.0 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| delta-BHC | ND | | ug/Kg | 5.0 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| Heptachlor | ND | | ug/Kg | 5.0 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| Aldrin | ND | | ug/Kg | 5.0 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| Heptachlor epoxide | ND | | ug/Kg | 5.0 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| Endosulfan I | ND | | ug/Kg | 5.0 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| Dieldrin | ND | | ug/Kg | 5.0 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| 4,4'-DDE | ND | | ug/Kg | 5.0 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| Endrin | ND | | ug/Kg | 5.0 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| Endosulfan II | ND | | ug/Kg | 5.0 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| Endosulfan sulfate | ND | | ug/Kg | 5.0 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| 4,4'-DDD | ND | | ug/Kg | 5.0 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| Endrin aldehyde | ND | | ug/Kg | 5.0 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| Endrin ketone | ND | | ug/Kg | 5.0 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| 4,4'-DDT | ND | | ug/Kg | 5.0 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| Methoxychlor | ND | | ug/Kg | 10 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| Toxaphene | ND | | ug/Kg | 100 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| Chlordane (Technical) | ND | | ug/Kg | 50 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| **Surrogates** | | | | **Limits** | | | | | |
| TCMX | 83% | | %REC | 23-120 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| Decachlorobiphenyl | 68% | | %REC | 24-120 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |



Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

# Analysis Results for 486233

| Sample ID: B2-0.5 | Lab ID: 486233-003 | Collected: 06/05/23 08:05 |
|---|---|---|
| | Matrix: Soil | |

| 486233-003 Analyte | Result | Qual | Units | RL | DF | Batch | Prepared | Analyzed | Chemist |
|---|---|---|---|---|---|---|---|---|---|
| Method: EPA 6020<br>Prep Method: EPA 3050B | | | | | | | | | |
| Arsenic | **5.9** | | mg/Kg | 0.96 | 0.96 | 315473 | 06/06/23 | 06/06/23 | JCP |
| Method: EPA 8081A<br>Prep Method: EPA 3546 | | | | | | | | | |
| alpha-BHC | ND | | ug/Kg | 5.0 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| beta-BHC | ND | | ug/Kg | 5.0 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| gamma-BHC | ND | | ug/Kg | 5.0 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| delta-BHC | ND | | ug/Kg | 5.0 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| Heptachlor | ND | | ug/Kg | 5.0 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| Aldrin | ND | | ug/Kg | 5.0 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| Heptachlor epoxide | ND | | ug/Kg | 5.0 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| Endosulfan I | ND | | ug/Kg | 5.0 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| Dieldrin | ND | | ug/Kg | 5.0 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| 4,4'-DDE | ND | | ug/Kg | 5.0 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| Endrin | ND | | ug/Kg | 5.0 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| Endosulfan II | ND | | ug/Kg | 5.0 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| Endosulfan sulfate | ND | | ug/Kg | 5.0 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| 4,4'-DDD | ND | | ug/Kg | 5.0 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| Endrin aldehyde | ND | | ug/Kg | 5.0 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| Endrin ketone | ND | | ug/Kg | 5.0 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| 4,4'-DDT | ND | | ug/Kg | 5.0 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| Methoxychlor | ND | | ug/Kg | 10 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| Toxaphene | ND | | ug/Kg | 100 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| Chlordane (Technical) | ND | | ug/Kg | 50 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| **Surrogates** | | | | **Limits** | | | | | |
| TCMX | 81% | | %REC | 23-120 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| Decachlorobiphenyl | 66% | | %REC | 24-120 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |



Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

# Analysis Results for 486233

| Sample ID: B3-0.5 | Lab ID: 486233-004 | Collected: 06/05/23 08:33 |
|---|---|---|
| | Matrix: Soil | |

| 486233-004 Analyte | Result | Qual | Units | RL | DF | Batch | Prepared | Analyzed | Chemist |
|---|---|---|---|---|---|---|---|---|---|
| Method: EPA 6020<br>Prep Method: EPA 3050B | | | | | | | | | |
| Arsenic | **6.9** | | mg/Kg | 0.97 | 0.97 | 315473 | 06/06/23 | 06/06/23 | JCP |
| Method: EPA 8081A<br>Prep Method: EPA 3546 | | | | | | | | | |
| alpha-BHC | ND | | ug/Kg | 5.0 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| beta-BHC | ND | | ug/Kg | 5.0 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| gamma-BHC | ND | | ug/Kg | 5.0 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| delta-BHC | ND | | ug/Kg | 5.0 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| Heptachlor | ND | | ug/Kg | 5.0 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| Aldrin | ND | | ug/Kg | 5.0 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| Heptachlor epoxide | ND | | ug/Kg | 5.0 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| Endosulfan I | ND | | ug/Kg | 5.0 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| Dieldrin | ND | | ug/Kg | 5.0 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| 4,4'-DDE | **23** | | ug/Kg | 5.0 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| Endrin | ND | | ug/Kg | 5.0 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| Endosulfan II | ND | | ug/Kg | 5.0 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| Endosulfan sulfate | ND | | ug/Kg | 5.0 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| 4,4'-DDD | ND | | ug/Kg | 5.0 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| Endrin aldehyde | ND | | ug/Kg | 5.0 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| Endrin ketone | ND | | ug/Kg | 5.0 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| 4,4'-DDT | **6.6** | C | ug/Kg | 5.0 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| Methoxychlor | ND | | ug/Kg | 10 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| Toxaphene | ND | | ug/Kg | 100 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| Chlordane (Technical) | ND | | ug/Kg | 50 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| **Surrogates** | | | | **Limits** | | | | | |
| TCMX | 87% | | %REC | 23-120 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| Decachlorobiphenyl | 72% | | %REC | 24-120 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |



Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

# Analysis Results for 486233

| Sample ID: B4-0.5 | Lab ID: 486233-005 | Collected: 06/05/23 09:00 |
|---|---|---|
| | Matrix: Soil | |

| 486233-005 Analyte | Result | Qual | Units | RL | DF | Batch | Prepared | Analyzed | Chemist |
|---|---|---|---|---|---|---|---|---|---|
| Method: EPA 6020<br>Prep Method: EPA 3050B | | | | | | | | | |
| Arsenic | **6.1** | | mg/Kg | 0.95 | 0.95 | 315473 | 06/06/23 | 06/06/23 | JCP |
| Method: EPA 8081A<br>Prep Method: EPA 3546 | | | | | | | | | |
| alpha-BHC | ND | | ug/Kg | 5.0 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| beta-BHC | ND | | ug/Kg | 5.0 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| gamma-BHC | ND | | ug/Kg | 5.0 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| delta-BHC | ND | | ug/Kg | 5.0 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| Heptachlor | ND | | ug/Kg | 5.0 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| Aldrin | ND | | ug/Kg | 5.0 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| Heptachlor epoxide | ND | | ug/Kg | 5.0 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| Endosulfan I | ND | | ug/Kg | 5.0 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| Dieldrin | ND | | ug/Kg | 5.0 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| 4,4'-DDE | **11** | | ug/Kg | 5.0 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| Endrin | ND | | ug/Kg | 5.0 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| Endosulfan II | ND | | ug/Kg | 5.0 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| Endosulfan sulfate | ND | | ug/Kg | 5.0 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| 4,4'-DDD | ND | | ug/Kg | 5.0 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| Endrin aldehyde | ND | | ug/Kg | 5.0 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| Endrin ketone | ND | | ug/Kg | 5.0 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| 4,4'-DDT | **7.7** | | ug/Kg | 5.0 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| Methoxychlor | ND | | ug/Kg | 10 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| Toxaphene | ND | | ug/Kg | 100 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| Chlordane (Technical) | ND | | ug/Kg | 50 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| **Surrogates** | | | | **Limits** | | | | | |
| TCMX | 83% | | %REC | 23-120 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |
| Decachlorobiphenyl | 66% | | %REC | 24-120 | 1 | 315528 | 06/06/23 | 06/07/23 | TRN |

C Presence confirmed, but RPD between columns exceeds 40%
ND Not Detected



Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

# Batch QC

| | | |
|---|---|---|
| **Type: Blank** | **Lab ID: QC1070970** | **Batch: 315473** |
| **Matrix: Soil** | **Method: EPA 6020** | **Prep Method: EPA 3050B** |

| QC1070970 Analyte | Result | Qual | Units | RL | Prepared | Analyzed |
|---|---|---|---|---|---|---|
| Arsenic | ND | | mg/Kg | 1.0 | 06/06/23 | 06/06/23 |

| | | |
|---|---|---|
| **Type: Lab Control Sample** | **Lab ID: QC1070971** | **Batch: 315473** |
| **Matrix: Soil** | **Method: EPA 6020** | **Prep Method: EPA 3050B** |

| QC1070971 Analyte | Result | Spiked | Units | Recovery | Qual | Limits |
|---|---|---|---|---|---|---|
| Arsenic | 106.8 | 100.0 | mg/Kg | 107% | | 80-120 |

| | | |
|---|---|---|
| **Type: Matrix Spike** | **Lab ID: QC1070972** | **Batch: 315473** |
| **Matrix (Source ID): Soil (486192-005)** | **Method: EPA 6020** | **Prep Method: EPA 3050B** |

| QC1070972 Analyte | Result | Source Sample Result | Spiked | Units | Recovery | Qual | Limits | DF |
|---|---|---|---|---|---|---|---|---|
| Arsenic | 117.0 | 5.011 | 100.0 | mg/Kg | 112% | | 75-125 | 1 |

| | | |
|---|---|---|
| **Type: Matrix Spike Duplicate** | **Lab ID: QC1070973** | **Batch: 315473** |
| **Matrix (Source ID): Soil (486192-005)** | **Method: EPA 6020** | **Prep Method: EPA 3050B** |

| QC1070973 Analyte | Result | Source Sample Result | Spiked | Units | Recovery | Qual | Limits | RPD | RPD Lim | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 112.6 | 5.011 | 100.0 | mg/Kg | 108% | | 75-125 | 4 | 20 | 1 |

| | | |
|---|---|---|
| **Type: Post Digest Spike** | **Lab ID: QC1071649** | **Batch: 315473** |
| **Matrix (Source ID): Soil (486192-005)** | **Method: EPA 6020** | **Prep Method: EPA 3050B** |

| QC1071649 Analyte | Result | Source Sample Result | Spiked | Units | Recovery | Qual | Limits | DF |
|---|---|---|---|---|---|---|---|---|
| Arsenic | 115.3 | 5.011 | 95.24 | mg/Kg | 116% | | 75-125 | 0.95 |

ENTHALPY ANALYTICAL

# Batch QC

| | | |
|---|---|---|
| **Type: Blank** | **Lab ID: QC1071169** | **Batch: 315528** |
| **Matrix: Soil** | **Method: EPA 8081A** | **Prep Method: EPA 3546** |

| QC1071169 Analyte | Result | Qual | Units | RL | Prepared | Analyzed |
|---|---|---|---|---|---|---|
| alpha-BHC | ND | | ug/Kg | 5.0 | 06/06/23 | 06/07/23 |
| beta-BHC | ND | | ug/Kg | 5.0 | 06/06/23 | 06/07/23 |
| gamma-BHC | ND | | ug/Kg | 5.0 | 06/06/23 | 06/07/23 |
| delta-BHC | ND | | ug/Kg | 5.0 | 06/06/23 | 06/07/23 |
| Heptachlor | ND | | ug/Kg | 5.0 | 06/06/23 | 06/07/23 |
| Aldrin | ND | | ug/Kg | 5.0 | 06/06/23 | 06/07/23 |
| Heptachlor epoxide | ND | | ug/Kg | 5.0 | 06/06/23 | 06/07/23 |
| Endosulfan I | ND | | ug/Kg | 5.0 | 06/06/23 | 06/07/23 |
| Dieldrin | ND | | ug/Kg | 5.0 | 06/06/23 | 06/07/23 |
| 4,4'-DDE | ND | | ug/Kg | 5.0 | 06/06/23 | 06/07/23 |
| Endrin | ND | | ug/Kg | 5.0 | 06/06/23 | 06/07/23 |
| Endosulfan II | ND | | ug/Kg | 5.0 | 06/06/23 | 06/07/23 |
| Endosulfan sulfate | ND | | ug/Kg | 5.0 | 06/06/23 | 06/07/23 |
| 4,4'-DDD | ND | | ug/Kg | 5.0 | 06/06/23 | 06/07/23 |
| Endrin aldehyde | ND | | ug/Kg | 5.0 | 06/06/23 | 06/07/23 |
| Endrin ketone | ND | | ug/Kg | 5.0 | 06/06/23 | 06/07/23 |
| 4,4'-DDT | ND | | ug/Kg | 5.0 | 06/06/23 | 06/07/23 |
| Methoxychlor | ND | | ug/Kg | 9.9 | 06/06/23 | 06/07/23 |
| Toxaphene | ND | | ug/Kg | 99 | 06/06/23 | 06/07/23 |
| Chlordane (Technical) | ND | | ug/Kg | 50 | 06/06/23 | 06/07/23 |
| **Surrogates** | | | | **Limits** | | |
| TCMX | 88% | | %REC | 23-120 | 06/06/23 | 06/07/23 |
| Decachlorobiphenyl | 93% | | %REC | 24-120 | 06/06/23 | 06/07/23 |

ENTHALPY ANALYTICAL

# Batch QC

| | | |
|---|---|---|
| **Type: Lab Control Sample** | **Lab ID: QC1071170** | **Batch: 315528** |
| **Matrix: Soil** | **Method: EPA 8081A** | **Prep Method: EPA 3546** |

| QC1071170 Analyte | Result | Spiked | Units | Recovery | Qual | Limits |
|---|---|---|---|---|---|---|
| alpha-BHC | 45.66 | 49.95 | ug/Kg | 91% | | 22-129 |
| beta-BHC | 47.62 | 49.95 | ug/Kg | 95% | | 28-125 |
| gamma-BHC | 45.80 | 49.95 | ug/Kg | 92% | | 22-128 |
| delta-BHC | 45.47 | 49.95 | ug/Kg | 91% | | 24-131 |
| Heptachlor | 45.25 | 49.95 | ug/Kg | 91% | | 18-124 |
| Aldrin | 39.94 | 49.95 | ug/Kg | 80% | | 23-120 |
| Heptachlor epoxide | 46.77 | 49.95 | ug/Kg | 94% | | 26-120 |
| Endosulfan I | 46.63 | 49.95 | ug/Kg | 93% | | 25-126 |
| Dieldrin | 47.03 | 49.95 | ug/Kg | 94% | | 23-124 |
| 4,4'-DDE | 47.36 | 49.95 | ug/Kg | 95% | | 28-121 |
| Endrin | 46.70 | 49.95 | ug/Kg | 93% | | 25-127 |
| Endosulfan II | 45.88 | 49.95 | ug/Kg | 92% | | 29-121 |
| Endosulfan sulfate | 44.09 | 49.95 | ug/Kg | 88% | | 30-121 |
| 4,4'-DDD | 48.53 | 49.95 | ug/Kg | 97% | | 26-120 |
| Endrin aldehyde | 29.25 | 49.95 | ug/Kg | 59% | | 10-120 |
| Endrin ketone | 44.79 | 49.95 | ug/Kg | 90% | | 28-125 |
| 4,4'-DDT | 45.60 | 49.95 | ug/Kg | 91% | | 22-125 |
| Methoxychlor | 45.80 | 49.95 | ug/Kg | 92% | | 28-130 |
| **Surrogates** | | | | | | |
| TCMX | 42.34 | 49.95 | ug/Kg | 85% | | 23-120 |
| Decachlorobiphenyl | 36.44 | 49.95 | ug/Kg | 73% | | 24-120 |

ENTHALPY ANALYTICAL

# Batch QC

| | | | | | |
|---|---|---|---|---|---|
| **Type:** | **Matrix Spike** | **Lab ID:** | **QC1071171** | **Batch:** | **315528** |
| **Matrix (Source ID):** | **Soil (486270-010)** | **Method:** | **EPA 8081A** | **Prep Method:** | **EPA 3546** |

| QC1071171 Analyte | Result | Source Sample Result | Spiked | Units | Recovery | Qual | Limits | DF |
|---|---|---|---|---|---|---|---|---|
| alpha-BHC | 49.24 | ND | 50.05 | ug/Kg | 98% | | 46-120 | 2 |
| beta-BHC | 49.61 | ND | 50.05 | ug/Kg | 99% | | 41-120 | 2 |
| gamma-BHC | 49.01 | ND | 50.05 | ug/Kg | 98% | | 41-120 | 2 |
| delta-BHC | 49.18 | ND | 50.05 | ug/Kg | 98% | | 38-123 | 2 |
| Heptachlor | 48.34 | ND | 50.05 | ug/Kg | 97% | | 39-120 | 2 |
| Aldrin | 47.46 | ND | 50.05 | ug/Kg | 95% | | 34-120 | 2 |
| Heptachlor epoxide | 49.66 | ND | 50.05 | ug/Kg | 99% | | 43-120 | 2 |
| Endosulfan I | 48.85 | ND | 50.05 | ug/Kg | 98% | | 45-120 | 2 |
| Dieldrin | 50.36 | ND | 50.05 | ug/Kg | 101% | | 45-120 | 2 |
| 4,4'-DDE | 50.12 | ND | 50.05 | ug/Kg | 100% | | 34-120 | 2 |
| Endrin | 50.56 | 3.865 | 50.05 | ug/Kg | 93% | | 40-120 | 2 |
| Endosulfan II | 50.48 | ND | 50.05 | ug/Kg | 101% | | 41-120 | 2 |
| Endosulfan sulfate | 47.39 | ND | 50.05 | ug/Kg | 95% | | 42-120 | 2 |
| 4,4'-DDD | 54.83 | 4.443 | 50.05 | ug/Kg | 101% | | 41-120 | 2 |
| Endrin aldehyde | 40.79 | ND | 50.05 | ug/Kg | 82% | | 30-120 | 2 |
| Endrin ketone | 49.19 | ND | 50.05 | ug/Kg | 98% | | 45-120 | 2 |
| 4,4'-DDT | 55.71 | ND | 50.05 | ug/Kg | 111% | | 35-127 | 2 |
| Methoxychlor | 50.58 | ND | 50.05 | ug/Kg | 101% | | 42-136 | 2 |
| **Surrogates** | | | | | | | | |
| TCMX | 45.40 | | 50.05 | ug/Kg | 91% | | 23-120 | 2 |
| Decachlorobiphenyl | 41.11 | | 50.05 | ug/Kg | 82% | | 24-120 | 2 |

ENTHALPY ANALYTICAL

# Batch QC

| | | | | | |
|---|---|---|---|---|---|
| **Type:** | **Matrix Spike Duplicate** | **Lab ID:** | **QC1071172** | **Batch:** | **315528** |
| **Matrix (Source ID):** | **Soil (486270-010)** | **Method:** | **EPA 8081A** | **Prep Method:** | **EPA 3546** |

| QC1071172 Analyte | Result | Source Sample Result | Spiked | Units | Recovery | Qual | Limits | RPD | RPD Lim | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| alpha-BHC | 49.46 | ND | 49.70 | ug/Kg | 100% | | 46-120 | 1 | 30 | 2 |
| beta-BHC | 51.38 | ND | 49.70 | ug/Kg | 103% | | 41-120 | 4 | 30 | 2 |
| gamma-BHC | 49.13 | ND | 49.70 | ug/Kg | 99% | | 41-120 | 1 | 30 | 2 |
| delta-BHC | 49.76 | ND | 49.70 | ug/Kg | 100% | | 38-123 | 2 | 30 | 2 |
| Heptachlor | 49.65 | ND | 49.70 | ug/Kg | 100% | | 39-120 | 3 | 30 | 2 |
| Aldrin | 46.23 | ND | 49.70 | ug/Kg | 93% | | 34-120 | 2 | 30 | 2 |
| Heptachlor epoxide | 49.56 | ND | 49.70 | ug/Kg | 100% | | 43-120 | 0 | 30 | 2 |
| Endosulfan I | 47.42 | ND | 49.70 | ug/Kg | 95% | | 45-120 | 2 | 30 | 2 |
| Dieldrin | 48.60 | ND | 49.70 | ug/Kg | 98% | | 45-120 | 3 | 30 | 2 |
| 4,4'-DDE | 48.66 | ND | 49.70 | ug/Kg | 98% | | 34-120 | 2 | 30 | 2 |
| Endrin | 49.91 | 3.865 | 49.70 | ug/Kg | 93% | | 40-120 | 1 | 30 | 2 |
| Endosulfan II | 49.11 | ND | 49.70 | ug/Kg | 99% | | 41-120 | 2 | 30 | 2 |
| Endosulfan sulfate | 45.63 | ND | 49.70 | ug/Kg | 92% | | 42-120 | 3 | 30 | 2 |
| 4,4'-DDD | 51.61 | 4.443 | 49.70 | ug/Kg | 95% | | 41-120 | 5 | 30 | 2 |
| Endrin aldehyde | 39.93 | ND | 49.70 | ug/Kg | 80% | | 30-120 | 1 | 30 | 2 |
| Endrin ketone | 47.15 | ND | 49.70 | ug/Kg | 95% | | 45-120 | 4 | 30 | 2 |
| 4,4'-DDT | 52.36 | ND | 49.70 | ug/Kg | 105% | | 35-127 | 6 | 30 | 2 |
| Methoxychlor | 52.30 | ND | 49.70 | ug/Kg | 105% | | 42-136 | 4 | 30 | 2 |
| **Surrogates** | | | | | | | | | | |
| TCMX | 46.06 | | 49.70 | ug/Kg | 93% | | 23-120 | | | 2 |
| Decachlorobiphenyl | 41.96 | | 49.70 | ug/Kg | 84% | | 24-120 | | | 2 |

ND Not Detected

# APPROVAL

Department of Toxic Substances Control

Meredith Williams, Ph.D., Director
5796 Corporate Avenue
Cypress, California 90630

*Yana Garcia*
Secretary for
Environmental Protection

*Gavin Newsom*
Governor

September 28, 2023 **SENT VIA ELECTRONIC MAIL**

Mr. John Vondriska
Administrative Director, Facilities
Corona-Norco Unified School District
2820 Clarke Avenue
Norco, California 92860
jvondriska@cnusd.k12.ca.us

APPROVAL OF PRELIMINARY ENDANGERMENT ASSESSMENT REPORT, CENTENNIAL HIGH SCHOOL AQUATIC CENTER, 1820 RIMPAU AVENUE, CORONA (SITE CODE:404987)

Dear Mr. Vondriska:

The Department of Toxic Substances Control (DTSC) reviewed the revised Preliminary Endangerment Assessment Report (PEA) (EEC Environmental, July 17, 2023, Revised September 15, 2023) received via e-mail on September 15, 2023 for Centennial High School Aquatic Center (Site). The revised PEA was prepared in response to DTSC comments forwarded in a letter dated August 15, 2023. The PEA presents investigation results and conclusions based on health screening evaluation for the Site.

In addition, the Corona-Norco Unified School District (District) notified DTSC on September 21, 2023 that it has complied with all the PEA public review and comment requirements pursuant to California Education Code, Section 17213.1(a)(6)(A). The District made the PEA available for public review and comment from August 21, 2023 to September 19, 2023, and a public hearing was held on September 5, 2023. No public comments were received.

The Site is an approximately 0.65-acre aquatic center located within Centennial High School (School) and was constructed in 1993. The School is approximately 40 acres and is bounded to the east by Rimpau Avenue followed by commercial area and the Hensley at Corona Pointe Apartments, to the south by single family residences, to the west by Fullerton Avenue followed by Apartments and medical office buildings, and to the north by family residences. The School property was undeveloped until early 1930s when it consisted of groves. The agricultural use continued until 1985 and in 1989, the

majority of the School was constructed. Additions and renovations took place in 1993 with the development of the Site, and between 2009 and 2012 when the southern portion of the School was developed with the existing classroom and kitchen buildings. The School configuration has not changed since 2012. An improvement project is proposed to be conducted at the Site. The proposed project includes expanding the existing pool to become a 50-meter pool, expanding the pool area to account for the larger pool and bleachers, modernizing or replacing the existing locker room, restroom, and pool equipment building, and installing new covered bleachers.

On August 18, 2008, the Corona-Norco Unified School District (District) entered into an Environmental Oversight Agreement (EOA) (Docket Number HSA-EOA 08/09-017) with DTSC for oversight of a PEA. The EOA was amended in 2009 to revise Site acreage. On April 27, 2023 the EOA was amended again to redefine the Site as the aquatic center area.

On May 16, 2023, DTSC conditionally approved the PEA Technical Memorandum (TM) (EEC Environmental, April 17, 2023). On June 5, 2023, five soil samples were collected from the Site and analyzed for arsenic and organochlorine pesticides, in accordance with the TM, to evaluate possible impacts from historical agricultural use.

The PEA concludes that all detections are below screening levels and recommends no additional investigation at the Site. DTSC concurs with these conclusions and recommendations and hereby approves the PEA.

Pursuant to Education Code section 17213.2(e), if a previously unidentified release or threatened release of a hazardous material or the presence of a naturally occurring hazardous material is discovered anytime during construction at the Site, the District shall cease all construction activities and notify DTSC. Additional assessment, investigation, or cleanup may be required.

If you have any questions, please contact Ms. Lina Hijazi, Project Manager at (714) 484-5334 or at Lina.Hijazi@dstc.ca.gov, or contact me at (714) 484-5368 or at Shahir.Haddad@dtsc.ca.gov.

Sincerely,

Shahir Haddad, P.E.
Branch Chief
Brownfields Restoration and Schools Evaluation Branch
Site Mitigation and Restoration Program

cc (see next page)

cc: (via e-mail)

Jacquelyn Roberts
Construction Director – Facilities Division
Corona-Norco Unified School District
jacquelyn.roberts@cnusd.k12.ca.us

Bina Patel, GIT
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Lina Hijazi
Project Manager
DTSC/Site Mitigation and Restoration Program
Lina.Hijazi@dstc.ca.gov

Brownfields Restoration and Schools Evaluation Branch Reading File - Cypress

# APPENDIX G

# AMBIENT NOISE MEASUREMENT DATA

UltraSystems
environmental | management | planning

16431 Scientific Way
Irvine, CA 92618
949.788.4900

# Noise Measurement Report Form – Part A

Date: 5/18/23 Day of Week: Thursday Time: 15:04 Project Number: 7218

Monitoring Segment / Area: 4 Monitoring Site Address: 1781 Mintage Lane

Measurement Taken By: Marissa Bassisten of UltraSystems Environmental

Average Wind Speed: 3.1 mph [km/hr] Compass Heading (meter ⊥ to source) 350°N

Temp: 75.2 °F Relative Humidity: 64.8 % Compass Heading (into wind) 0°N

Cloud Cover Class (1 = heavy overcast, 2 = lightly overcast, 3 = sunny) 3 = sunny

Approximate distance of sound level meter from receptor location: 21 ft

Approximate distance of sound level meter from construction site: _____
(Leave Blank for Baseline Ambient)

Receptor Land Use (Check One): ☒ Residential ☐ Institutional ☐ Comm./Ind. ☐ Recreational

Sound Level Meter: Make and Model: Quest SoundPro DL-1-1/3 Serial Number: BLH080004

Meter Setting: ☒ A-Weighted Sound Level (SLOW) ☐ A-Weighted Sound Level (FAST)

Measurement Start Time: 1504 Measurement End Time: 1519

Total Measurement Time: 15 mins Session File Name (e.g., S012): S006

Check the measurement purpose:

☒ Baseline condition ☐ Ongoing construction ☐ Caltrans ☐ Complaint response

## Measurement Results

| Measurement Type | Measured Levels (dB) |
|---|---|
| Calibration | Pre: 114.0 Post: 113.9 |
| $L_{eq\ (h)}$ | Slow: 49.6 Fast: |
| $L_{max}$ | Slow: 62.5 Fast: |
| $L_{90}$ | Slow: 43.0 Fast: |

**Field Notes:**

1. Garage installment in progress (background noise)
2. Traffic noise along Mintage Lane
3. _____

Noise Monitor's Signature: _____ Date: 05/18/23

UltraSystems
environmental | management | planning

16431 Scientific Way
Irvine, CA 92618
949.788.4900

# Noise Measurement Report Form – Part B

Date: 8/18/23 Day of Week: Thursday Time: 13:04 Project Number: 7218

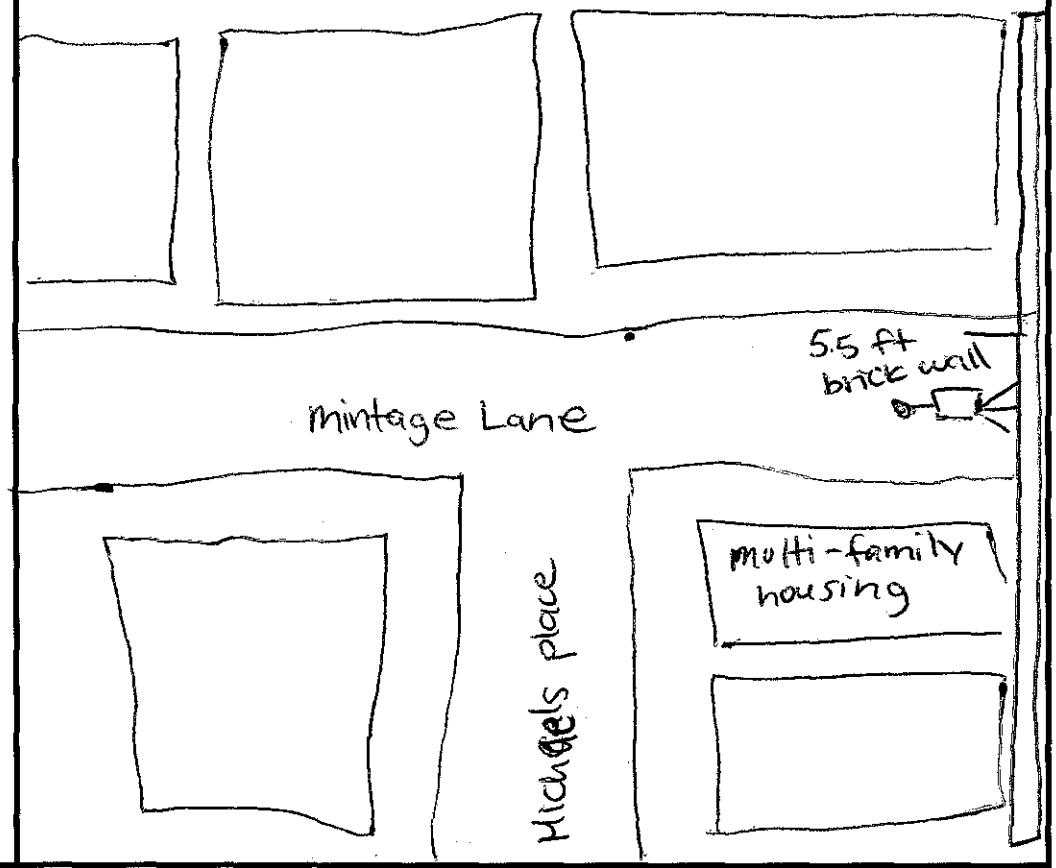
Monitoring Segment / Area: 2 Monitoring Site Address: 1781 Mintage Lane

## Site Map

**Plan View**

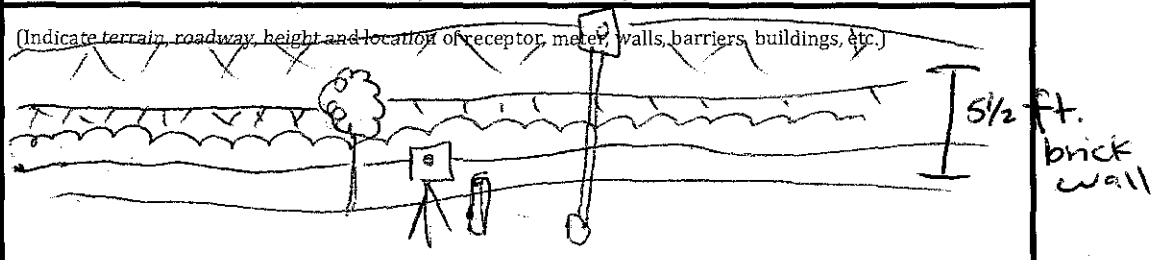
North Arrow (fill-in)

(Indicate site location, receptor location, meter location, distance in feet to landmarks, roadways, travel lane directions, geographical objects: trees, water, buildings, signs, store names, hydrants, power & telephone lines, manholes, etc.)




**Elevation View**

(Indicate ~~terrain, roadway, height and location~~ of receptor, meter, walls, barriers, buildings, etc.)




| Latitude: 33.859869° | Longitude: -117.547794° | Elevation: 770 ft |
|---|---|---|

Noise Monitor's Signature: [signature] Date: 8/18/23

# Session Report

**5/22/2023**

## Information Panel

| | |
|---|---|
| Name | S006_BLH080004_22052023_153447 |
| Start Time | 5/18/2023 3:03:59 PM |
| Stop Time | 5/18/2023 3:18:59 PM |
| Device Name | BLH080004 |
| Model Type | SoundPro DL |
| Device Firmware Rev | R.13J |
| Comments | |

## Summary Data Panel

| Description | Meter | Value | Description | Meter | Value |
|---|---|---|---|---|---|
| Leq | 1 | 49.6 dB | L90 | 1 | 43 dB |
| Lmax | 1 | 62.5 dB | Lmin | 1 | 41 dB |
| Exchange Rate | 1 | 3 dB | Weighting | 1 | A |
| Response | 1 | SLOW | Bandwidth | 1 | OFF |
| Exchange Rate | 2 | 5 dB | Weighting | 2 | A |
| Response | 2 | FAST | | | |

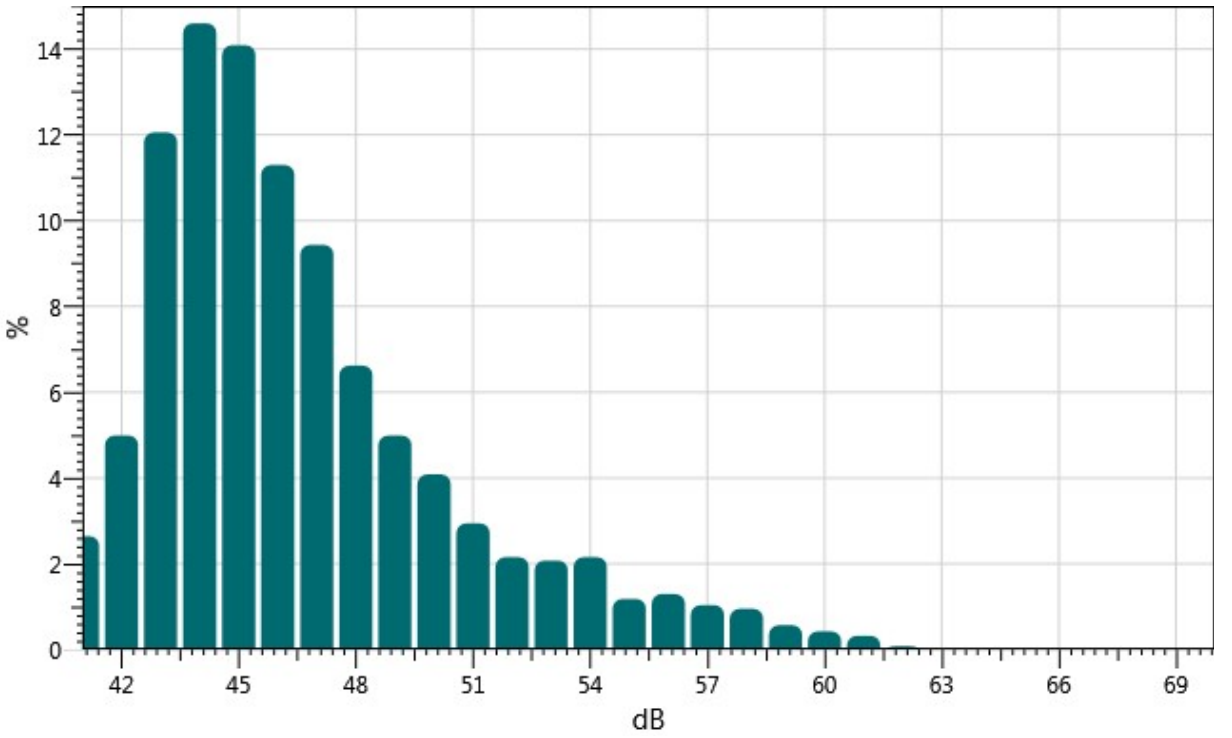
## Statistics Table

| dB: | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 | % |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 41: | 0.00 | 0.09 | 0.11 | 0.20 | 0.30 | 0.44 | 0.38 | 0.44 | 0.30 | 0.38 | 2.65 |
| 42: | 0.29 | 0.12 | 0.13 | 0.17 | 0.39 | 0.55 | 0.70 | 0.57 | 0.87 | 1.21 | 4.99 |
| 43: | 1.29 | 1.28 | 1.14 | 0.94 | 1.10 | 1.04 | 1.25 | 1.36 | 1.30 | 1.36 | 12.05 |
| 44: | 1.45 | 1.52 | 1.70 | 1.39 | 1.48 | 1.53 | 1.35 | 1.35 | 1.32 | 1.51 | 14.60 |
| 45: | 1.49 | 1.58 | 1.34 | 1.62 | 1.61 | 1.27 | 1.18 | 1.35 | 1.39 | 1.26 | 14.09 |
| 46: | 1.20 | 1.44 | 1.20 | 1.11 | 1.06 | 1.09 | 1.04 | 1.03 | 1.05 | 1.08 | 11.30 |
| 47: | 1.11 | 1.13 | 1.03 | 0.95 | 0.87 | 0.80 | 0.84 | 0.88 | 0.95 | 0.88 | 9.43 |
| 48: | 0.81 | 0.76 | 0.53 | 0.72 | 0.71 | 0.64 | 0.64 | 0.61 | 0.59 | 0.60 | 6.62 |
| 49: | 0.61 | 0.58 | 0.52 | 0.47 | 0.54 | 0.47 | 0.44 | 0.41 | 0.48 | 0.48 | 4.99 |
| 50: | 0.50 | 0.51 | 0.41 | 0.40 | 0.40 | 0.39 | 0.35 | 0.38 | 0.40 | 0.35 | 4.09 |
| 51: | 0.36 | 0.37 | 0.20 | 0.30 | 0.34 | 0.31 | 0.32 | 0.28 | 0.22 | 0.24 | 2.94 |
| 52: | 0.23 | 0.24 | 0.24 | 0.23 | 0.19 | 0.19 | 0.19 | 0.21 | 0.19 | 0.23 | 2.15 |
| 53: | 0.19 | 0.22 | 0.23 | 0.24 | 0.20 | 0.18 | 0.21 | 0.19 | 0.18 | 0.23 | 2.08 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 54: | 0.24 | 0.30 | 0.18 | 0.23 | 0.19 | 0.26 | 0.21 | 0.20 | 0.18 | 0.18 | 2.15 |
| 55: | 0.15 | 0.13 | 0.13 | 0.15 | 0.10 | 0.10 | 0.09 | 0.10 | 0.11 | 0.13 | 1.18 |
| 56: | 0.13 | 0.15 | 0.13 | 0.14 | 0.15 | 0.13 | 0.11 | 0.12 | 0.10 | 0.13 | 1.30 |
| 57: | 0.13 | 0.13 | 0.07 | 0.09 | 0.09 | 0.12 | 0.08 | 0.09 | 0.11 | 0.10 | 1.04 |
| 58: | 0.10 | 0.11 | 0.10 | 0.10 | 0.09 | 0.11 | 0.11 | 0.09 | 0.09 | 0.06 | 0.95 |
| 59: | 0.05 | 0.06 | 0.06 | 0.04 | 0.05 | 0.05 | 0.04 | 0.06 | 0.07 | 0.07 | 0.57 |
| 60: | 0.06 | 0.06 | 0.03 | 0.05 | 0.03 | 0.05 | 0.03 | 0.04 | 0.05 | 0.02 | 0.43 |
| 61: | 0.02 | 0.02 | 0.02 | 0.02 | 0.04 | 0.03 | 0.02 | 0.04 | 0.04 | 0.06 | 0.32 |
| 62: | 0.04 | 0.02 | 0.01 | 0.01 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.08 |

## Statistics Chart

S006_BLH080004_22052023_153447: Statistics Chart



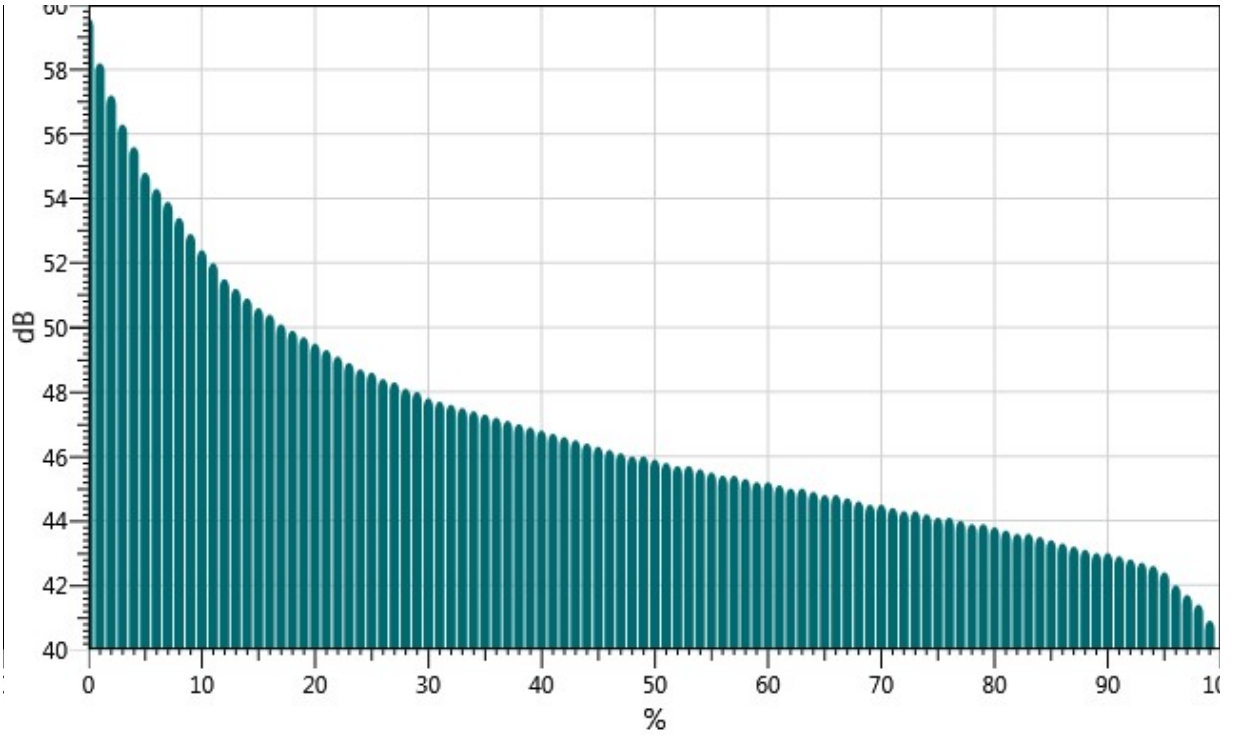

## Exceedance Table

| . | 0% | 1% | 2% | 3% | 4% | 5% | 6% | %7 | %8 | %9 |
|---|---|---|---|---|---|---|---|---|---|---|
| 0%: | | 59.6 | 58.2 | 57.2 | 56.3 | 55.6 | 54.8 | 54.3 | 53.9 | 53.4 |
| 10%: | 52.9 | 52.4 | 52.0 | 51.5 | 51.2 | 50.9 | 50.6 | 50.4 | 50.1 | 49.9 |
| 20%: | 49.7 | 49.5 | 49.3 | 49.1 | 48.9 | 48.7 | 48.6 | 48.4 | 48.3 | 48.1 |
| 30%: | 48.0 | 47.8 | 47.7 | 47.6 | 47.5 | 47.4 | 47.3 | 47.2 | 47.1 | 47.0 |
| 40%: | 46.9 | 46.8 | 46.7 | 46.6 | 46.5 | 46.4 | 46.3 | 46.2 | 46.1 | 46.0 |
| 50%: | 46.0 | 45.9 | 45.8 | 45.7 | 45.7 | 45.6 | 45.5 | 45.4 | 45.4 | 45.3 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 60%: | 45.2 | 45.2 | 45.1 | 45.0 | 45.0 | 44.9 | 44.8 | 44.8 | 44.7 | 44.6 |
| 70%: | 44.5 | 44.5 | 44.4 | 44.3 | 44.3 | 44.2 | 44.1 | 44.1 | 44.0 | 43.9 |
| 80%: | 43.9 | 43.8 | 43.7 | 43.6 | 43.6 | 43.5 | 43.4 | 43.3 | 43.2 | 43.1 |
| 90%: | 43.0 | 43.0 | 42.9 | 42.8 | 42.7 | 42.6 | 42.4 | 42.0 | 41.7 | 41.4 |
| 100%: | 40.9 | | | | | | | | | |

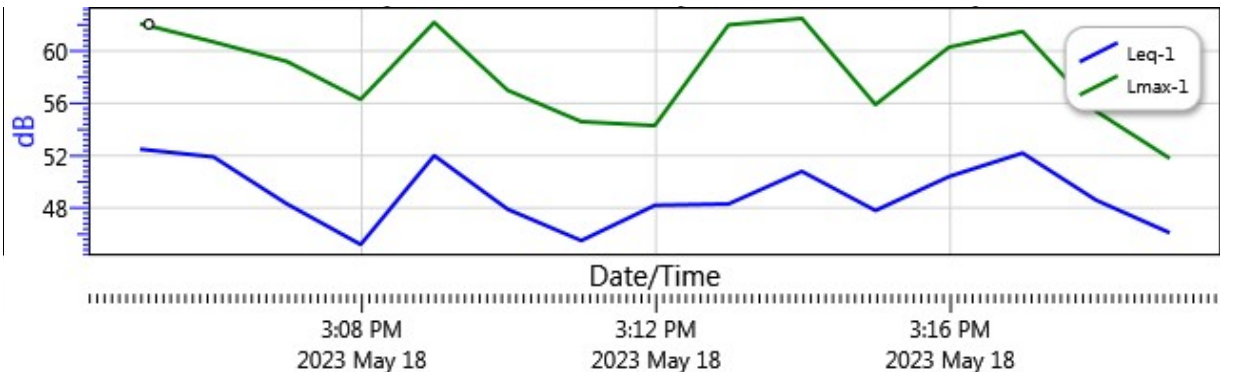
## Exceedance Chart

S006_BLH080004_22052023_153447: Exceedance Chart




## Logged Data Chart

S006_BLH080004_22052023_153447: Logged Data Chart



UltraSystems
environmental | management | planning

16431 Scientific Way
Irvine, CA 92618
949.788.4900

# Noise Measurement Report Form – Part A

Date: 05/18/23 Day of Week: Thursday Time: 1136 Project Number: 7218

Monitoring Segment / Area: 2 Monitoring Site Address: 1550 Rimpau Ave

Measurement Taken By: Amir Ayati of UltraSystems Environmental

Average Wind Speed: 0.9 mph [km/hr] Compass Heading (meter ⊥ to source) 168° S

Temp: 76.8 ° F Relative Humidity: 66.4 % Compass Heading (into wind) 304° NW

Cloud Cover Class (1 = heavy overcast, 2 = lightly overcast, 3 = sunny) 3

Approximate distance of sound level meter from receptor location: 31 ft

Approximate distance of sound level meter from construction site: _____
(Leave Blank for Baseline Ambient)

Receptor Land Use (Check One): ☒ Residential ☒ Institutional ☐ Comm./Ind. ☐ Recreational

Sound Level Meter: Make and Model: Quest SoundPro DL-1-1/3 Serial Number: BLH080004

Meter Setting: ☒ A-Weighted Sound Level (SLOW) ☐ A-Weighted Sound Level (FAST)

Measurement Start Time: 1136 Measurement End Time: 1151

Total Measurement Time: 15 min Session File Name (e.g., S012): ~~S003~~ S003

Check the measurement purpose:

☒ Baseline condition ☐ Ongoing construction ☐ Caltrans ☐ Complaint response

## Measurement Results

| Measurement Type | Measured Levels (dB) |
|---|---|
| Calibration | Pre: 114.0 Post: 113.8 |
| $L_{eq\ (h)}$ | Slow: 53.3 Fast: |
| $L_{max}$ | Slow: 72.9 Fast: |
| $L_{90}$ | Slow: 45.6 Fast: |

**Field Notes:**

1. Lawnmower drove by at 1138.
2. Ambulance at 1146.
3. Traffic noise along Limpau Ave.

Noise Monitor's Signature: _____ Date: 05/18/23

UltraSystems
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16431 Scientific Way
Irvine, CA 92618
949.788.4900

# Noise Measurement Report Form – Part B

Date: 05/18/23 Day of Week: Thursday Time: 1136 Project Number: 7218

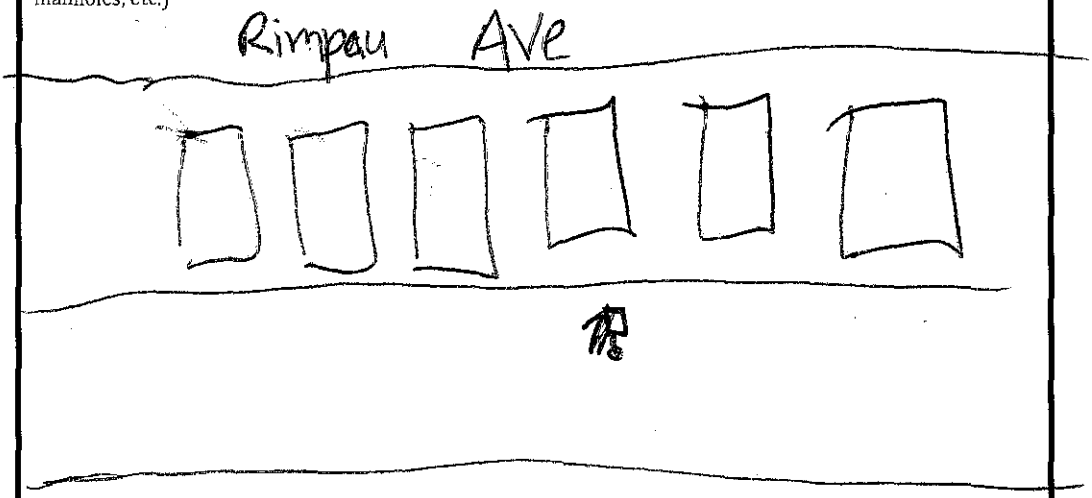
Monitoring Segment / Area: 2 Monitoring Site Address: 1550 Rimpau Ave

**Site Map**

**Plan View**

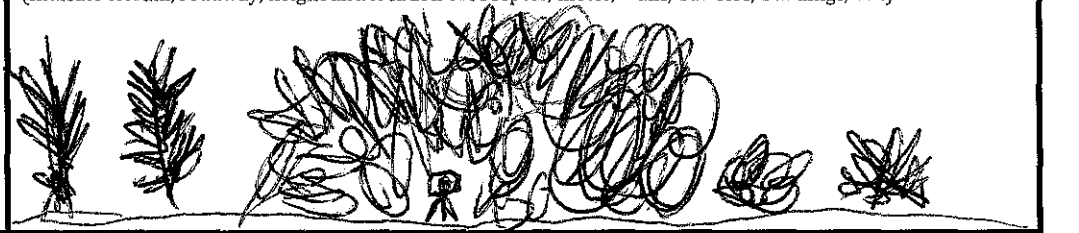
North Arrow (fill-in)

(Indicate site location, receptor location, meter location, distance in feet to landmarks, roadways, travel lane directions, geographical objects: trees, water, buildings, signs, store names, hydrants, power & telephone lines, manholes, etc.)




**Elevation View**

(Indicate terrain, roadway, height and location of receptor, meter, walls, barriers, buildings, etc.)



| Latitude: 33.859756° | Longitude: -117.546347° | Elevation: 771 ft |
|---|---|---|

Noise Monitor's Signature: _____ Date: 05/18/23

# Session Report

**5/22/2023**

## Information Panel

| | |
|---|---|
| Name | S003_BLH080004_22052023_153419 |
| Start Time | 5/18/2023 11:35:39 AM |
| Stop Time | 5/18/2023 11:50:39 AM |
| Device Name | BLH080004 |
| Model Type | SoundPro DL |
| Device Firmware Rev | R.13J |
| Comments | |

## Summary Data Panel

| Description | Meter | Value | Description | Meter | Value |
|---|---|---|---|---|---|
| Leq | 1 | 53.3 dB | L90 | 1 | 45.6 dB |
| Lmax | 1 | 72.9 dB | Lmin | 1 | 43.5 dB |
| Exchange Rate | 1 | 3 dB | Weighting | 1 | A |
| Response | 1 | SLOW | Bandwidth | 1 | OFF |
| Exchange Rate | 2 | 5 dB | Weighting | 2 | A |
| Response | 2 | FAST | | | |

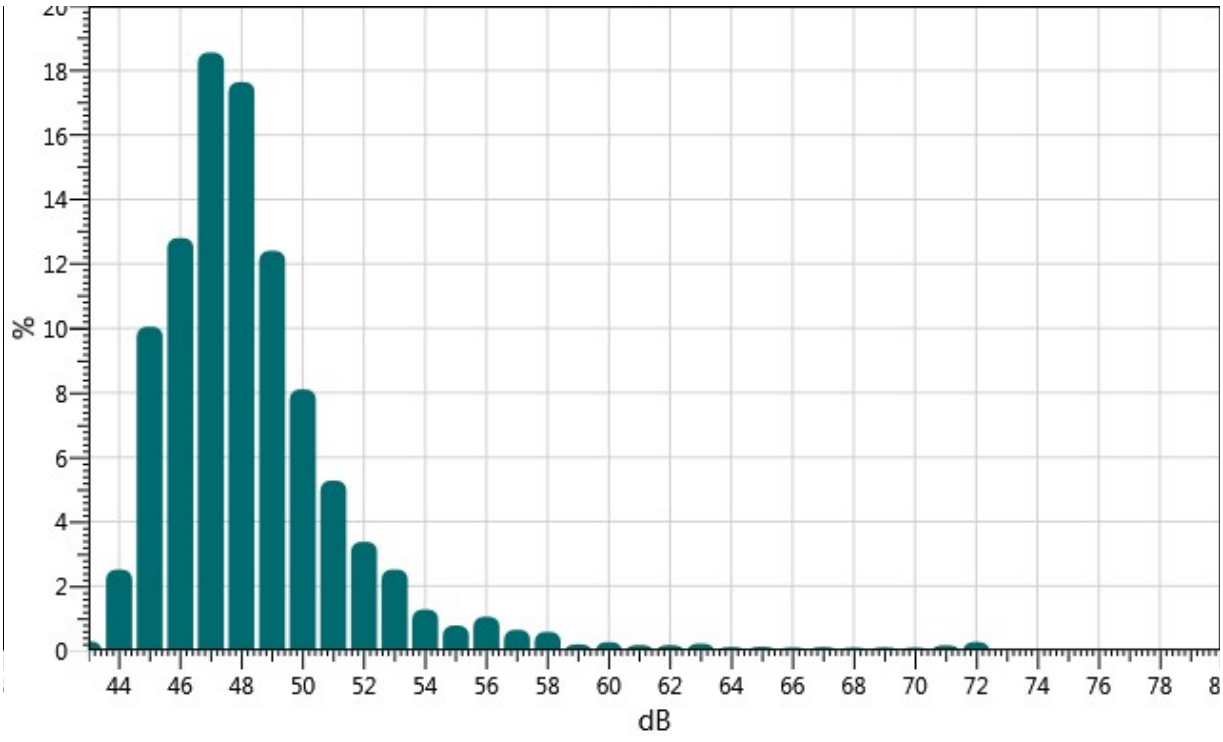
## Statistics Table

| dB: | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 | % |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 43: | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.08 | 0.06 | 0.05 | 0.06 | 0.28 |
| 44: | 0.09 | 0.21 | 0.12 | 0.24 | 0.29 | 0.27 | 0.30 | 0.27 | 0.32 | 0.40 | 2.51 |
| 45: | 0.44 | 0.68 | 0.69 | 0.92 | 0.99 | 1.17 | 1.29 | 1.34 | 1.20 | 1.33 | 10.05 |
| 46: | 1.39 | 1.35 | 1.19 | 1.31 | 1.21 | 1.21 | 1.24 | 1.25 | 1.30 | 1.36 | 12.80 |
| 47: | 1.41 | 1.53 | 1.69 | 1.73 | 1.60 | 1.97 | 1.97 | 2.28 | 2.22 | 2.16 | 18.56 |
| 48: | 2.08 | 2.24 | 1.58 | 2.07 | 1.95 | 1.76 | 1.60 | 1.52 | 1.53 | 1.33 | 17.64 |
| 49: | 1.20 | 1.31 | 1.43 | 1.38 | 1.28 | 1.20 | 1.27 | 1.22 | 1.02 | 1.10 | 12.41 |
| 50: | 1.33 | 1.03 | 1.00 | 0.79 | 0.72 | 0.63 | 0.59 | 0.68 | 0.71 | 0.63 | 8.11 |
| 51: | 0.62 | 0.60 | 0.33 | 0.60 | 0.52 | 0.51 | 0.55 | 0.52 | 0.52 | 0.52 | 5.27 |
| 52: | 0.49 | 0.39 | 0.39 | 0.35 | 0.31 | 0.31 | 0.25 | 0.28 | 0.27 | 0.34 | 3.38 |
| 53: | 0.28 | 0.31 | 0.32 | 0.32 | 0.30 | 0.25 | 0.21 | 0.19 | 0.20 | 0.15 | 2.52 |
| 54: | 0.16 | 0.23 | 0.11 | 0.17 | 0.15 | 0.13 | 0.08 | 0.07 | 0.08 | 0.09 | 1.27 |
| 55: | 0.06 | 0.05 | 0.10 | 0.08 | 0.07 | 0.08 | 0.11 | 0.09 | 0.07 | 0.06 | 0.77 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 56: | 0.10 | 0.10 | 0.14 | 0.11 | 0.09 | 0.14 | 0.10 | 0.08 | 0.11 | 0.10 | 1.05 |
| 57: | 0.10 | 0.08 | 0.05 | 0.07 | 0.06 | 0.05 | 0.06 | 0.03 | 0.07 | 0.08 | 0.65 |
| 58: | 0.07 | 0.07 | 0.09 | 0.06 | 0.04 | 0.08 | 0.09 | 0.04 | 0.02 | 0.02 | 0.58 |
| 59: | 0.02 | 0.01 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.03 | 0.19 |
| 60: | 0.02 | 0.03 | 0.03 | 0.04 | 0.03 | 0.02 | 0.02 | 0.02 | 0.03 | 0.02 | 0.26 |
| 61: | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.01 | 0.02 | 0.02 | 0.02 | 0.02 | 0.17 |
| 62: | 0.03 | 0.02 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.02 | 0.03 | 0.17 |
| 63: | 0.03 | 0.05 | 0.02 | 0.01 | 0.01 | 0.02 | 0.02 | 0.02 | 0.02 | 0.03 | 0.22 |
| 64: | 0.02 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.11 |
| 65: | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.02 | 0.01 | 0.01 | 0.01 | 0.01 | 0.11 |
| 66: | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.10 |
| 67: | 0.01 | 0.01 | 0.01 | 0.02 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.11 |
| 68: | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.09 |
| 69: | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.10 |
| 70: | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.10 |
| 71: | 0.01 | 0.01 | 0.01 | 0.01 | 0.02 | 0.03 | 0.03 | 0.02 | 0.01 | 0.01 | 0.16 |
| 72: | 0.01 | 0.02 | 0.06 | 0.02 | 0.02 | 0.03 | 0.02 | 0.03 | 0.05 | 0.02 | 0.26 |

## Statistics Chart

S003_BLH080004_22052023_153419: Statistics Chart

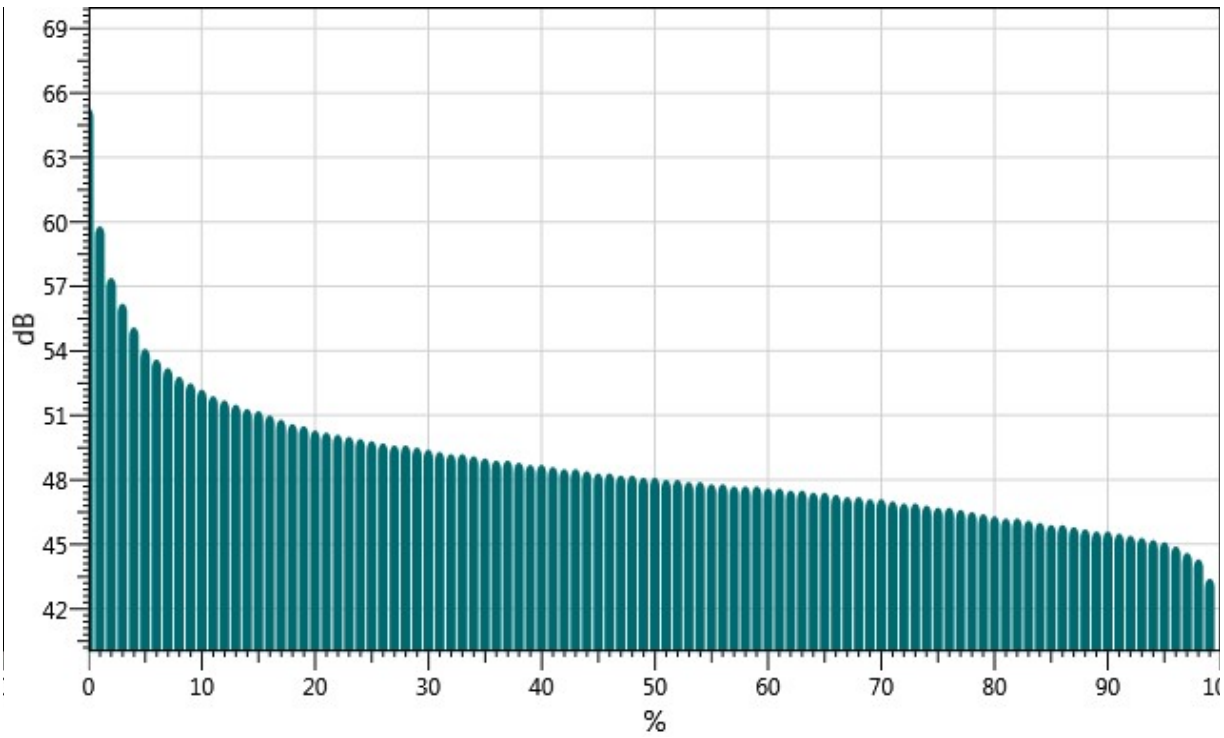


## Exceedance Table

| . | 0% | 1% | 2% | 3% | 4% | 5% | 6% | %7 | %8 | %9 |
|---|---|---|---|---|---|---|---|---|---|---|
| 0%: | | 65.3 | 59.8 | 57.4 | 56.2 | 55.1 | 54.1 | 53.6 | 53.2 | 52.8 |
| 10%: | 52.5 | 52.2 | 51.9 | 51.7 | 51.5 | 51.3 | 51.2 | 51.0 | 50.8 | 50.6 |
| 20%: | 50.5 | 50.3 | 50.2 | 50.1 | 50.0 | 49.9 | 49.8 | 49.7 | 49.6 | 49.6 |
| 30%: | 49.5 | 49.4 | 49.3 | 49.2 | 49.2 | 49.1 | 49.0 | 48.9 | 48.9 | 48.8 |
| 40%: | 48.7 | 48.7 | 48.6 | 48.5 | 48.5 | 48.4 | 48.3 | 48.3 | 48.2 | 48.2 |
| 50%: | 48.1 | 48.1 | 48.0 | 48.0 | 47.9 | 47.9 | 47.8 | 47.8 | 47.7 | 47.7 |
| 60%: | 47.7 | 47.6 | 47.6 | 47.5 | 47.5 | 47.4 | 47.4 | 47.3 | 47.2 | 47.2 |
| 70%: | 47.1 | 47.1 | 47.0 | 46.9 | 46.9 | 46.8 | 46.7 | 46.7 | 46.6 | 46.5 |
| 80%: | 46.4 | 46.3 | 46.2 | 46.2 | 46.1 | 46.0 | 45.9 | 45.9 | 45.8 | 45.7 |
| 90%: | 45.6 | 45.6 | 45.5 | 45.4 | 45.3 | 45.2 | 45.1 | 44.9 | 44.6 | 44.3 |
| 100%: | 43.4 | | | | | | | | | |

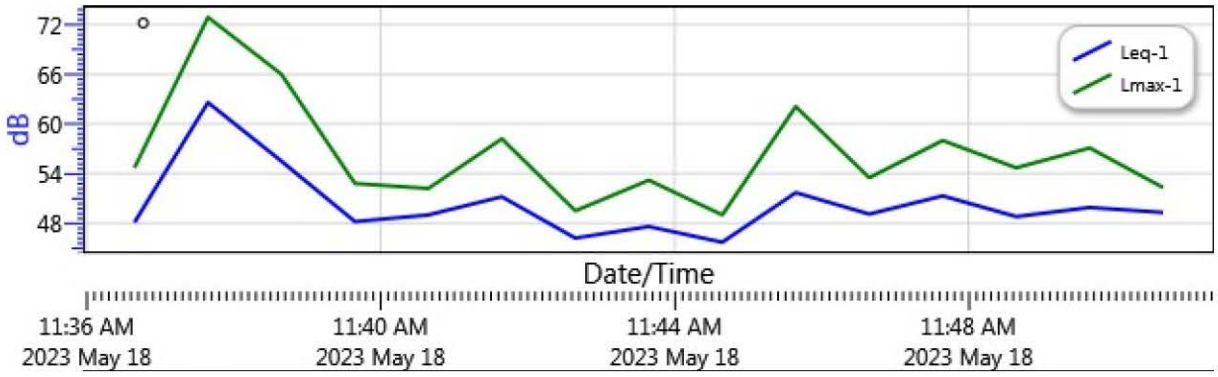
## Exceedance Chart

S003_BLH080004_22052023_153419: Exceedance Chart



## Logged Data Chart

S003_BLH080004_22052023_153419: Logged Data Chart



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# Noise Measurement Report Form – Part A

Date: 08/18/23 Day of Week: Thursday Time: 16:12 Project Number: 7718

Monitoring Segment / Area: 3 Monitoring Site Address: 1116 Chestnut Lane

Measurement Taken By: Marissa Fassiotis of UltraSystems Environmental

Average Wind Speed: 3.4 mph [km/hr] Compass Heading (meter ⊥ to source) 258° W

Temp: 80.1 °F Relative Humidity: 36.4 % Compass Heading (into wind) 308° NW

Cloud Cover Class (1 = heavy overcast, 2 = lightly overcast, 3 = sunny) 3

Approximate distance of sound level meter from receptor location: 22ft

Approximate distance of sound level meter from construction site: _____
(Leave Blank for Baseline Ambient)

Receptor Land Use (Check One): ☒ Residential ☒ Institutional ☒ Comm./Ind. ☐ Recreational

Sound Level Meter: Make and Model: Quest SoundPro DL-1-1/3 Serial Number: BLH080004

Meter Setting: ☒ A-Weighted Sound Level (SLOW) ☐ A-Weighted Sound Level (FAST)

Measurement Start Time: 16:12 Measurement End Time: 16:27

Total Measurement Time: 15 mins Session File Name (e.g., S012): S008

Check the measurement purpose:

☒ Baseline condition ☐ Ongoing construction ☐ Caltrans ☐ Complaint response

## Measurement Results

| Measurement Type | Measured Levels (dB) |
|---|---|
| Calibration | Pre: 114.0 Post: 113.9 |
| $L_{eq}$ (h) | Slow: 71.8 Fast: |
| $L_{max}$ | Slow: 88.9 Fast: |
| $L_{90}$ | Slow: 58.9 Fast: |

**Field Notes:**

1. End of School Day and Kids are getting picked up
2. Traffic noise along Chestnut Lane
3. _____

Noise Monitor's Signature: _____ Date: 08/18/23

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# Noise Measurement Report Form – Part B

Date: 08/18/23 Day of Week: Thursday Time: 10:12 Project Number: 748

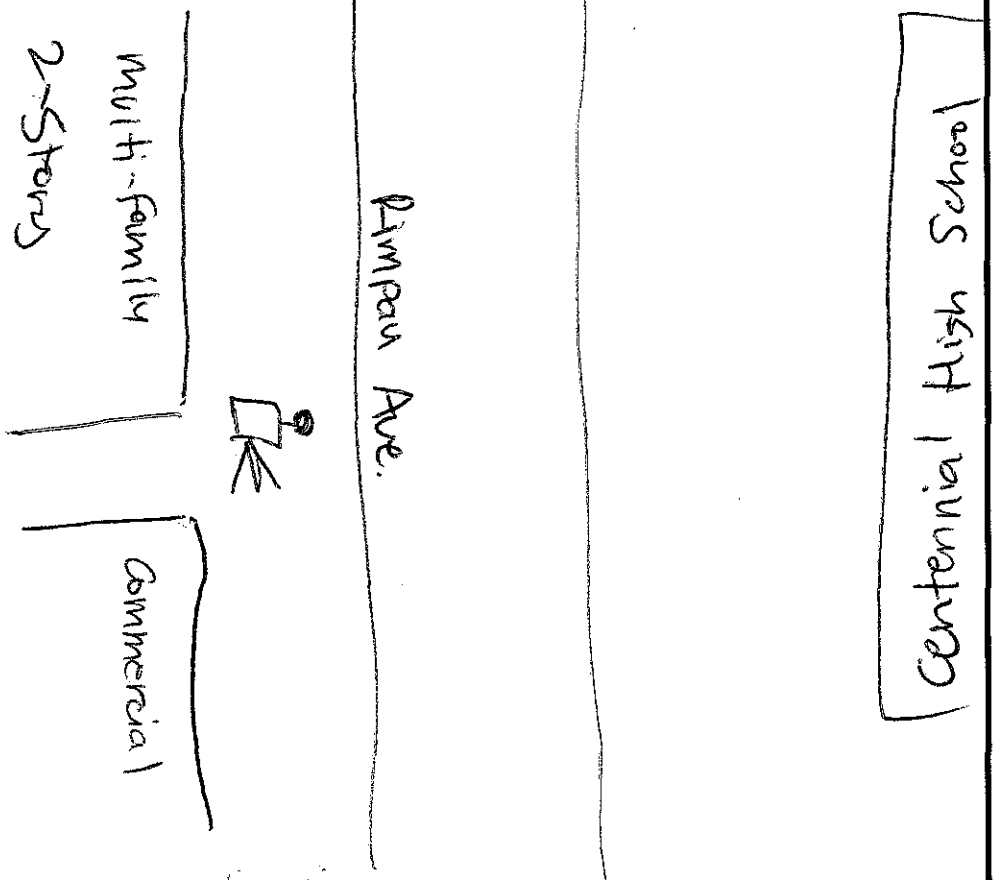
Monitoring Segment / Area: 3 Monitoring Site Address: 1114 Chestnut Lane

## Site Map

**Plan View**

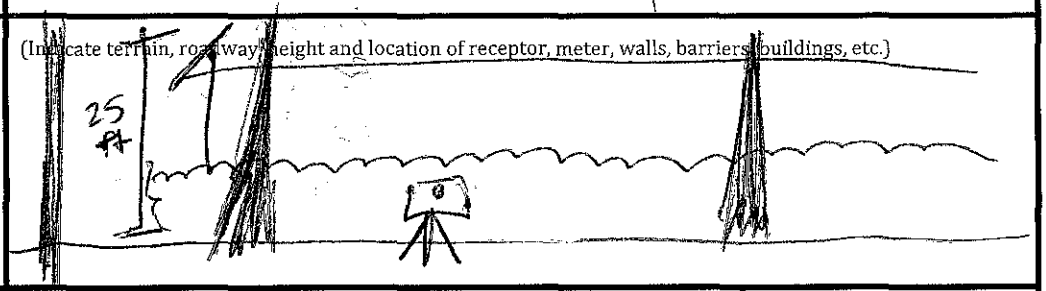
North Arrow (fill-in)

(Indicate site location, receptor location, meter location, distance in feet to landmarks, roadways, travel lane directions, geographical objects: trees, water, buildings, signs, store names, hydrants, power & telephone lines, manholes, etc.)




**Elevation View**

(Indicate terrain, roadway, height and location of receptor, meter, walls, barriers, buildings, etc.)




| Latitude: 33.858288° | Longitude: -117.544586° | Elevation: 773 ft |
|---|---|---|

Noise Monitor's Signature: [signature] Date: 08/18/23

# Session Report

**5/22/2023**

## Information Panel

| | |
|---|---|
| Name | S008_BLH080004_22052023_153501 |
| Start Time | 5/18/2023 4:11:39 PM |
| Stop Time | 5/18/2023 4:26:39 PM |
| Device Name | BLH080004 |
| Model Type | SoundPro DL |
| Device Firmware Rev | R.13J |
| Comments | |

## Summary Data Panel

| Description | Meter | Value | Description | Meter | Value |
|---|---|---|---|---|---|
| Leq | 1 | 71.8 dB | L90 | 1 | 58.9 dB |
| Lmax | 1 | 88.9 dB | Lmin | 1 | 48.5 dB |
| Exchange Rate | 1 | 3 dB | Weighting | 1 | A |
| Response | 1 | SLOW | Bandwidth | 1 | OFF |
| Exchange Rate | 2 | 5 dB | Weighting | 2 | A |
| Response | 2 | FAST | | | |

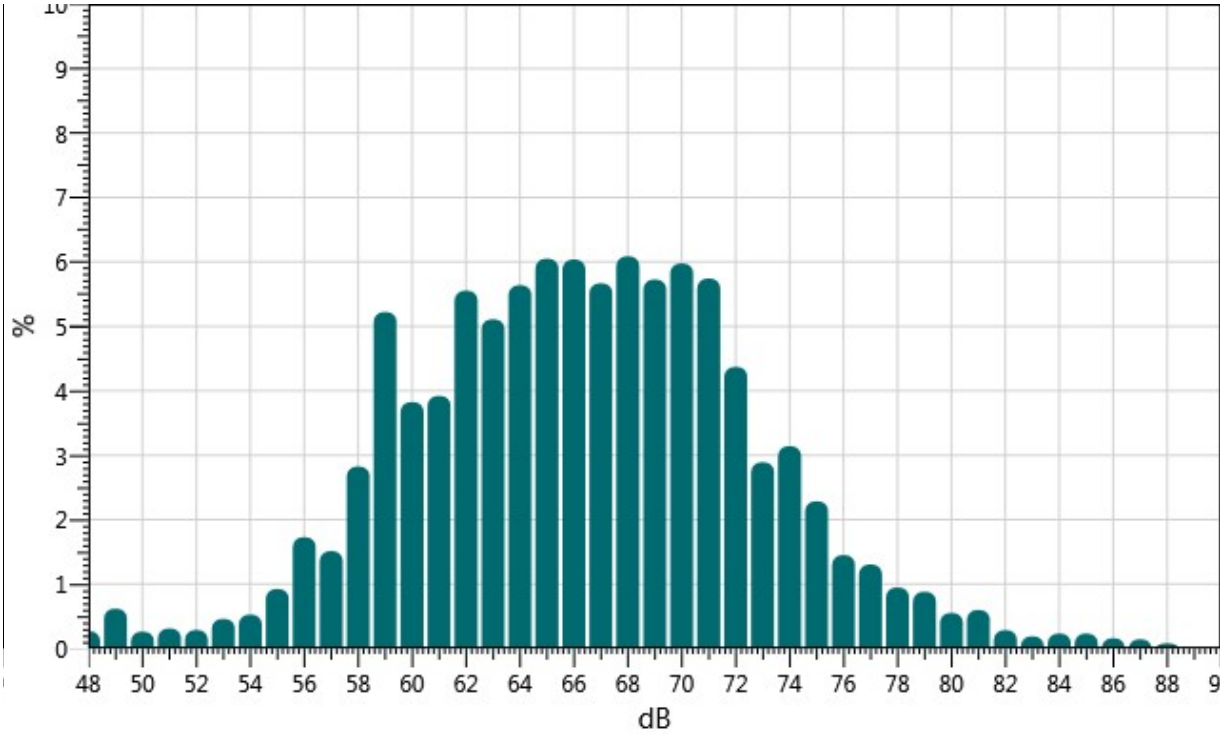
## Statistics Table

| dB: | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 | % |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 48: | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.06 | 0.08 | 0.07 | 0.05 | 0.27 |
| 49: | 0.08 | 0.15 | 0.05 | 0.10 | 0.11 | 0.04 | 0.01 | 0.05 | 0.02 | 0.02 | 0.62 |
| 50: | 0.02 | 0.02 | 0.03 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.06 | 0.04 | 0.26 |
| 51: | 0.02 | 0.02 | 0.01 | 0.01 | 0.03 | 0.06 | 0.03 | 0.04 | 0.02 | 0.06 | 0.31 |
| 52: | 0.03 | 0.02 | 0.03 | 0.02 | 0.03 | 0.03 | 0.02 | 0.03 | 0.04 | 0.04 | 0.29 |
| 53: | 0.02 | 0.03 | 0.03 | 0.02 | 0.05 | 0.02 | 0.07 | 0.04 | 0.10 | 0.06 | 0.46 |
| 54: | 0.07 | 0.05 | 0.03 | 0.04 | 0.05 | 0.04 | 0.06 | 0.05 | 0.07 | 0.06 | 0.53 |
| 55: | 0.06 | 0.06 | 0.10 | 0.11 | 0.11 | 0.10 | 0.10 | 0.09 | 0.10 | 0.10 | 0.92 |
| 56: | 0.12 | 0.10 | 0.13 | 0.21 | 0.21 | 0.18 | 0.18 | 0.20 | 0.19 | 0.20 | 1.73 |
| 57: | 0.19 | 0.20 | 0.10 | 0.13 | 0.12 | 0.19 | 0.18 | 0.13 | 0.14 | 0.15 | 1.51 |
| 58: | 0.15 | 0.18 | 0.23 | 0.29 | 0.25 | 0.27 | 0.41 | 0.35 | 0.34 | 0.35 | 2.82 |
| 59: | 0.39 | 0.50 | 0.59 | 0.56 | 0.52 | 0.60 | 0.55 | 0.53 | 0.50 | 0.47 | 5.22 |
| 60: | 0.48 | 0.52 | 0.29 | 0.36 | 0.38 | 0.33 | 0.30 | 0.38 | 0.37 | 0.41 | 3.82 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 61: | 0.33 | 0.32 | 0.38 | 0.38 | 0.38 | 0.40 | 0.40 | 0.45 | 0.44 | 0.44 | 3.92 |
| 62: | 0.53 | 0.60 | 0.50 | 0.49 | 0.55 | 0.61 | 0.57 | 0.57 | 0.54 | 0.59 | 5.55 |
| 63: | 0.64 | 0.59 | 0.36 | 0.47 | 0.51 | 0.48 | 0.50 | 0.47 | 0.54 | 0.55 | 5.11 |
| 64: | 0.57 | 0.57 | 0.52 | 0.62 | 0.64 | 0.54 | 0.54 | 0.54 | 0.54 | 0.56 | 5.64 |
| 65: | 0.60 | 0.54 | 0.54 | 0.54 | 0.61 | 0.63 | 0.71 | 0.66 | 0.58 | 0.64 | 6.05 |
| 66: | 0.60 | 0.66 | 0.45 | 0.56 | 0.59 | 0.69 | 0.61 | 0.65 | 0.69 | 0.52 | 6.04 |
| 67: | 0.56 | 0.56 | 0.50 | 0.59 | 0.76 | 0.56 | 0.53 | 0.60 | 0.51 | 0.48 | 5.67 |
| 68: | 0.50 | 0.43 | 0.53 | 0.51 | 0.54 | 0.69 | 0.76 | 0.75 | 0.71 | 0.68 | 6.09 |
| 69: | 0.60 | 0.64 | 0.54 | 0.54 | 0.53 | 0.59 | 0.57 | 0.57 | 0.57 | 0.58 | 5.73 |
| 70: | 0.53 | 0.56 | 0.53 | 0.56 | 0.62 | 0.63 | 0.68 | 0.60 | 0.64 | 0.61 | 5.98 |
| 71: | 0.52 | 0.58 | 0.55 | 0.63 | 0.54 | 0.58 | 0.57 | 0.56 | 0.57 | 0.64 | 5.74 |
| 72: | 0.60 | 0.53 | 0.42 | 0.25 | 0.40 | 0.44 | 0.42 | 0.43 | 0.44 | 0.44 | 4.37 |
| 73: | 0.33 | 0.30 | 0.28 | 0.27 | 0.30 | 0.27 | 0.30 | 0.30 | 0.28 | 0.25 | 2.89 |
| 74: | 0.28 | 0.30 | 0.27 | 0.35 | 0.29 | 0.28 | 0.37 | 0.35 | 0.34 | 0.31 | 3.14 |
| 75: | 0.31 | 0.27 | 0.28 | 0.17 | 0.23 | 0.25 | 0.22 | 0.18 | 0.19 | 0.18 | 2.28 |
| 76: | 0.21 | 0.15 | 0.15 | 0.13 | 0.11 | 0.12 | 0.13 | 0.15 | 0.18 | 0.13 | 1.45 |
| 77: | 0.15 | 0.19 | 0.14 | 0.13 | 0.12 | 0.10 | 0.11 | 0.10 | 0.13 | 0.13 | 1.30 |
| 78: | 0.15 | 0.14 | 0.09 | 0.05 | 0.07 | 0.09 | 0.09 | 0.09 | 0.09 | 0.10 | 0.95 |
| 79: | 0.10 | 0.09 | 0.10 | 0.09 | 0.09 | 0.09 | 0.07 | 0.08 | 0.08 | 0.09 | 0.88 |
| 80: | 0.05 | 0.06 | 0.06 | 0.06 | 0.05 | 0.06 | 0.05 | 0.05 | 0.06 | 0.06 | 0.55 |
| 81: | 0.07 | 0.06 | 0.08 | 0.04 | 0.06 | 0.06 | 0.08 | 0.07 | 0.04 | 0.04 | 0.60 |
| 82: | 0.03 | 0.03 | 0.03 | 0.05 | 0.03 | 0.03 | 0.03 | 0.02 | 0.02 | 0.02 | 0.28 |
| 83: | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.19 |
| 84: | 0.02 | 0.02 | 0.03 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.03 | 0.04 | 0.23 |
| 85: | 0.03 | 0.01 | 0.02 | 0.02 | 0.03 | 0.03 | 0.02 | 0.02 | 0.02 | 0.03 | 0.23 |
| 86: | 0.02 | 0.02 | 0.01 | 0.02 | 0.03 | 0.01 | 0.01 | 0.01 | 0.02 | 0.01 | 0.16 |
| 87: | 0.02 | 0.02 | 0.01 | 0.01 | 0.02 | 0.03 | 0.01 | 0.01 | 0.01 | 0.01 | 0.14 |
| 88: | 0.01 | 0.01 | 0.00 | 0.01 | 0.01 | 0.00 | 0.01 | 0.01 | 0.01 | 0.01 | 0.08 |

## Statistics Chart

S008_BLH080004_22052023_153501: Statistics Chart

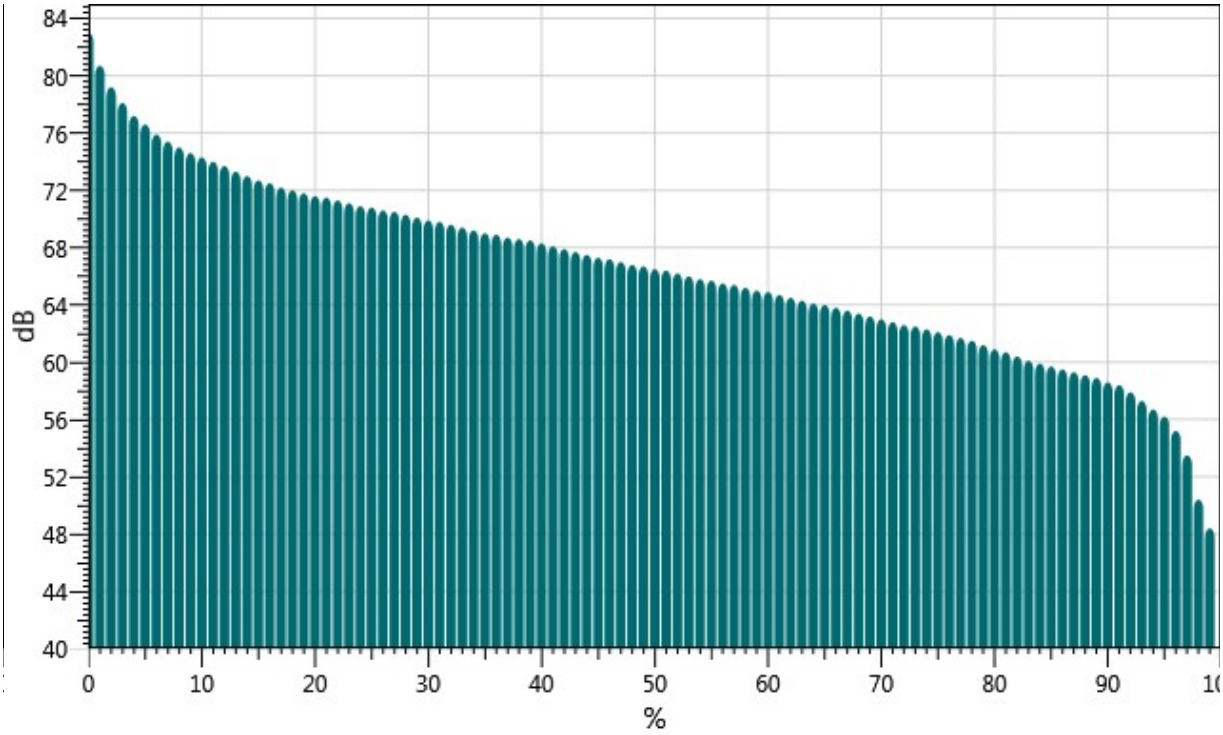



## Exceedance Table

| . | 0% | 1% | 2% | 3% | 4% | 5% | 6% | %7 | %8 | %9 |
|---|---|---|---|---|---|---|---|---|---|---|
| 0%: | | 83.0 | 80.7 | 79.2 | 78.1 | 77.2 | 76.6 | 75.9 | 75.4 | 75.0 |
| 10%: | 74.6 | 74.3 | 74.0 | 73.7 | 73.3 | 73.0 | 72.7 | 72.5 | 72.2 | 72.0 |
| 20%: | 71.8 | 71.6 | 71.5 | 71.3 | 71.1 | 70.9 | 70.8 | 70.6 | 70.5 | 70.3 |
| 30%: | 70.1 | 69.9 | 69.8 | 69.6 | 69.4 | 69.2 | 69.0 | 68.9 | 68.7 | 68.6 |
| 40%: | 68.5 | 68.3 | 68.1 | 67.9 | 67.7 | 67.5 | 67.3 | 67.2 | 67.0 | 66.8 |
| 50%: | 66.7 | 66.5 | 66.4 | 66.2 | 66.0 | 65.8 | 65.7 | 65.5 | 65.4 | 65.2 |
| 60%: | 65.0 | 64.9 | 64.7 | 64.5 | 64.3 | 64.1 | 64.0 | 63.8 | 63.6 | 63.4 |
| 70%: | 63.2 | 63.0 | 62.8 | 62.6 | 62.5 | 62.3 | 62.1 | 61.9 | 61.7 | 61.5 |
| 80%: | 61.2 | 60.9 | 60.7 | 60.4 | 60.1 | 59.9 | 59.7 | 59.5 | 59.3 | 59.1 |
| 90%: | 58.9 | 58.6 | 58.4 | 57.9 | 57.3 | 56.7 | 56.2 | 55.2 | 53.5 | 50.4 |
| 100%: | 48.4 | | | | | | | | | |

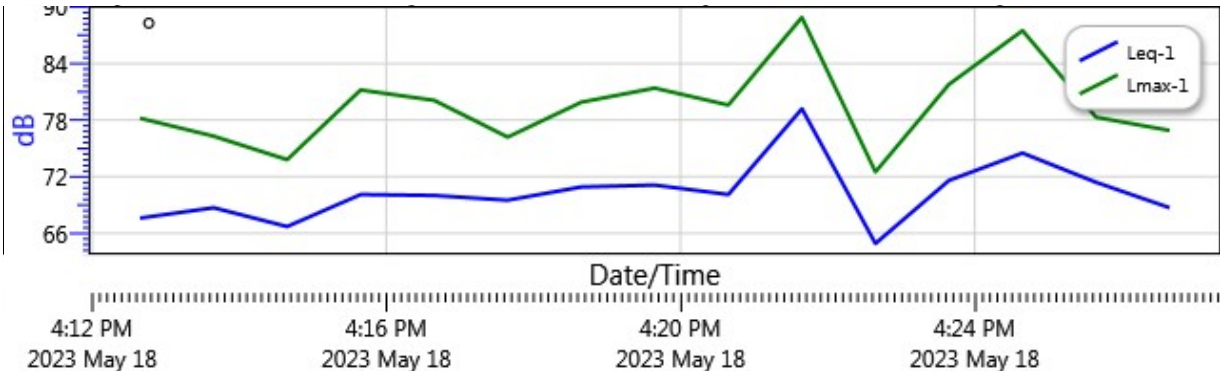
## Exceedance Chart

S008_BLH080004_22052023_153501: Exceedance Chart




## Logged Data Chart

S008_BLH080004_22052023_153501: Logged Data Chart



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# Noise Measurement Report Form – Part A

Date: 05/18/23 Day of Week: Thursday Time: 15:40 Project Number: 7718

Monitoring Segment / Area: 4 Monitoring Site Address: 1942 Fullerton Avenue

Measurement Taken By: Marissa Krissilh of UltraSystems Environmental

Average Wind Speed: 1.7 mph [km/hr] Compass Heading (meter ⊥ to source) 77° E

Temp: 76.1 ° F Relative Humidity: 61.9 % Compass Heading (into wind) 349° N

Cloud Cover Class (1 = heavy overcast, 2 = lightly overcast, 3 = sunny) 3 = sunny

Approximate distance of sound level meter from receptor location: 64 ft

Approximate distance of sound level meter from construction site: _____
(Leave Blank for Baseline Ambient)

Receptor Land Use (Check One): ☒ Residential ☒ Institutional ☐ Comm./Ind. ☐ Recreational

Sound Level Meter: Make and Model: Quest SoundPro DL-1-1/3 Serial Number: BLH080004

Meter Setting: ☒ A-Weighted Sound Level (SLOW) ☐ A-Weighted Sound Level (FAST)

Measurement Start Time: 15:40 Measurement End Time: 15:55

Total Measurement Time: 15 mins Session File Name (e.g., S012): S007

Check the measurement purpose:

☒ Baseline condition ☐ Ongoing construction ☐ Caltrans ☐ Complaint response

## Measurement Results

| Measurement Type | Measured Levels (dB) |
|---|---|
| Calibration | Pre: 114.0 Post: 114.0 |
| $L_{eq\ (h)}$ | Slow: 66.7 Fast: |
| $L_{max}$ | Slow: 80.0 Fast: |
| $L_{90}$ | Slow: 60.1 Fast: |

**Field Notes:**

1. Traffic noise along Fullerton Avenue
2. _____
3. _____

Noise Monitor's Signature: _____ Date: 05/18/23

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# Noise Measurement Report Form – Part B

Date: 5/16/19 Day of Week: Thursday Time: 13:40 Project Number: 7318

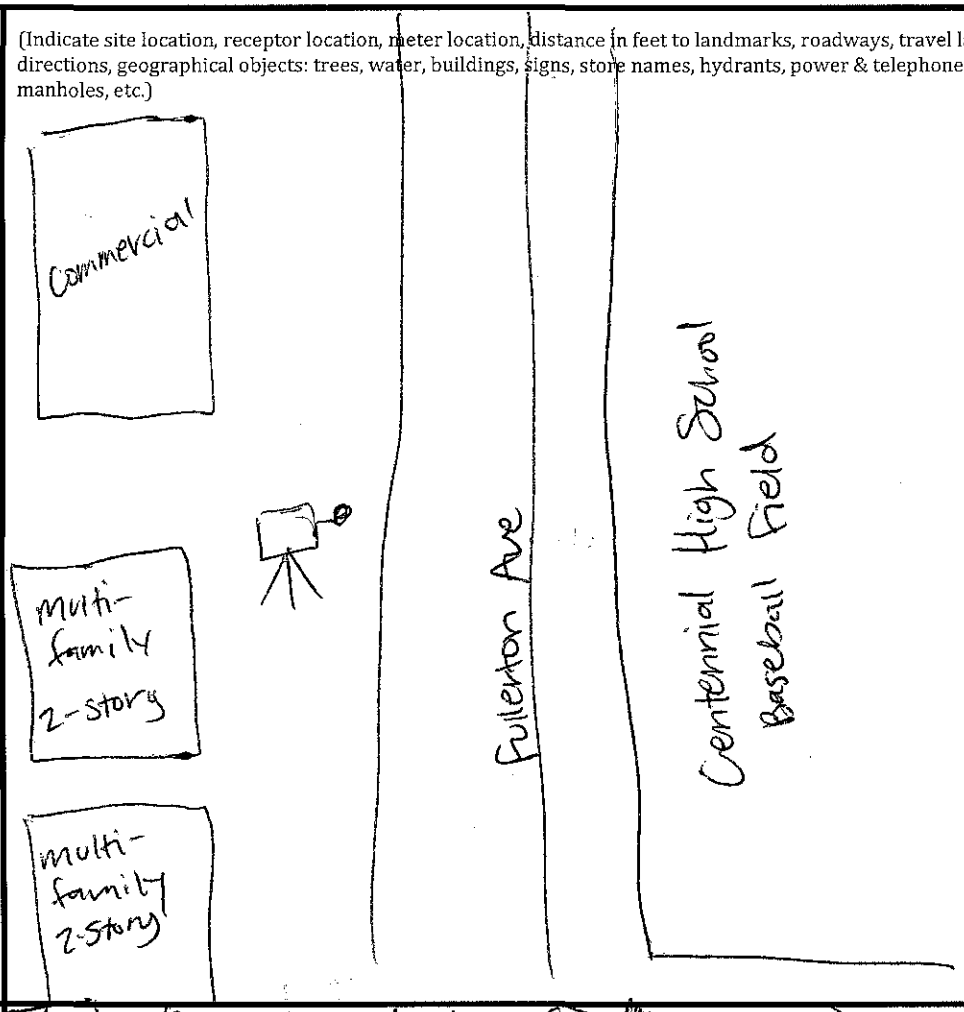
Monitoring Segment / Area: 4 Monitoring Site Address: 1942 Fullerton Avenue

## Site Map

**Plan View**

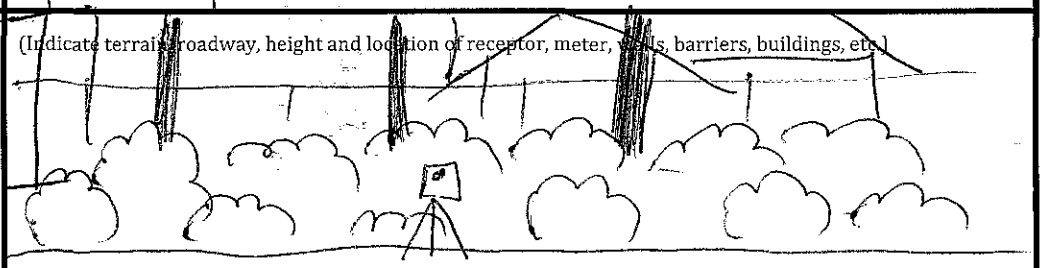
North Arrow (fill-in)

(Indicate site location, receptor location, meter location, distance in feet to landmarks, roadways, travel lane directions, geographical objects: trees, water, buildings, signs, store names, hydrants, power & telephone lines, manholes, etc.)




**Elevation View**

(Indicate terrain, roadway, height and location of receptor, meter, walls, barriers, buildings, etc.)




| Latitude: 33.858083° | Longitude: -117.550467° | Elevation: ~~847 ft~~ 806 ft |
|---|---|---|

Noise Monitor's Signature: _____ Date: 05/16/19

# Session Report

**5/22/2023**

## Information Panel

| | |
|---|---|
| Name | S007_BLH080004_22052023_153454 |
| Start Time | 5/18/2023 3:39:59 PM |
| Stop Time | 5/18/2023 3:54:59 PM |
| Device Name | BLH080004 |
| Model Type | SoundPro DL |
| Device Firmware Rev | R.13J |
| Comments | |

## Summary Data Panel

| Description | Meter | Value | Description | Meter | Value |
|---|---|---|---|---|---|
| Leq | 1 | 66.7 dB | L90 | 1 | 60.1 dB |
| Lmax | 1 | 80 dB | Lmin | 1 | 52.2 dB |
| Exchange Rate | 1 | 3 dB | Weighting | 1 | A |
| Response | 1 | SLOW | Bandwidth | 1 | OFF |
| Exchange Rate | 2 | 5 dB | Weighting | 2 | A |
| Response | 2 | FAST | | | |

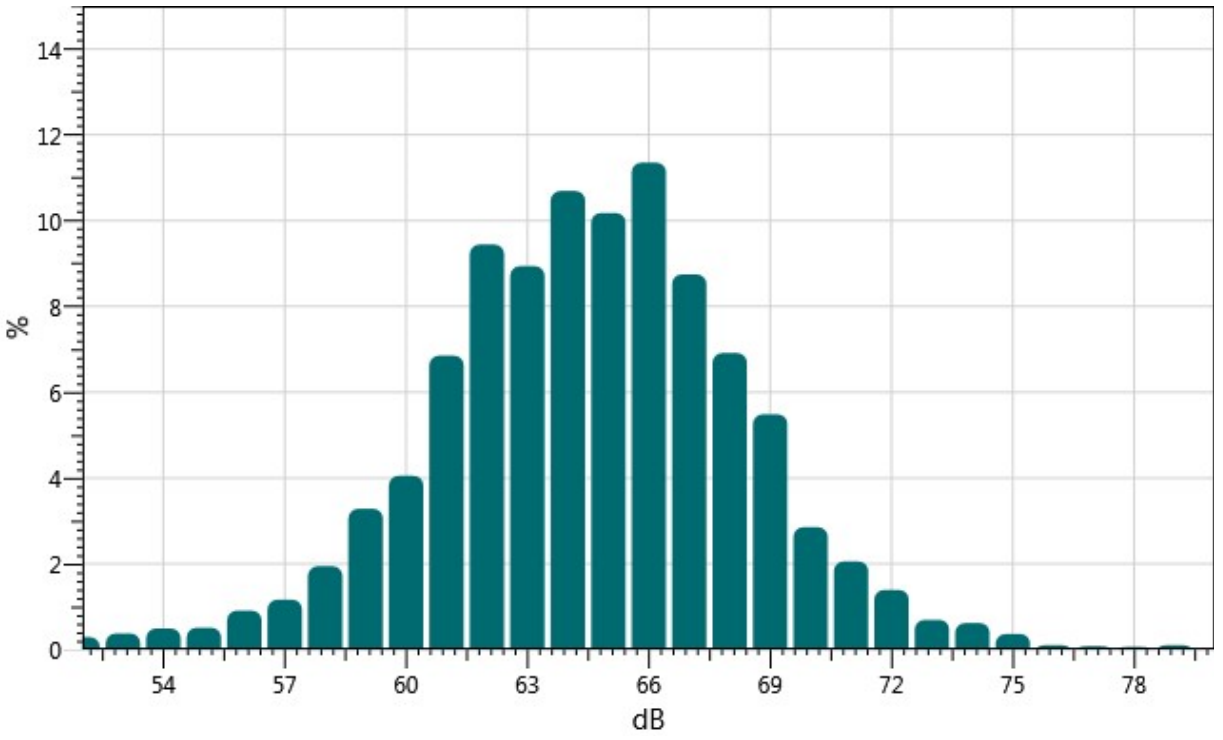
## Statistics Table

| dB: | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 | % |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 52: | 0.00 | 0.00 | 0.04 | 0.03 | 0.03 | 0.05 | 0.04 | 0.02 | 0.03 | 0.04 | 0.29 |
| 53: | 0.03 | 0.03 | 0.02 | 0.01 | 0.07 | 0.05 | 0.06 | 0.04 | 0.03 | 0.03 | 0.38 |
| 54: | 0.03 | 0.03 | 0.04 | 0.05 | 0.03 | 0.04 | 0.04 | 0.10 | 0.08 | 0.05 | 0.49 |
| 55: | 0.04 | 0.03 | 0.04 | 0.05 | 0.04 | 0.06 | 0.06 | 0.06 | 0.05 | 0.07 | 0.51 |
| 56: | 0.09 | 0.11 | 0.07 | 0.11 | 0.09 | 0.08 | 0.09 | 0.08 | 0.09 | 0.10 | 0.91 |
| 57: | 0.10 | 0.15 | 0.14 | 0.14 | 0.12 | 0.10 | 0.09 | 0.09 | 0.10 | 0.13 | 1.16 |
| 58: | 0.17 | 0.19 | 0.18 | 0.17 | 0.13 | 0.15 | 0.24 | 0.23 | 0.23 | 0.26 | 1.94 |
| 59: | 0.29 | 0.35 | 0.30 | 0.34 | 0.33 | 0.40 | 0.30 | 0.31 | 0.35 | 0.32 | 3.28 |
| 60: | 0.35 | 0.41 | 0.26 | 0.40 | 0.41 | 0.34 | 0.47 | 0.45 | 0.49 | 0.47 | 4.05 |
| 61: | 0.44 | 0.36 | 0.53 | 0.74 | 0.78 | 0.75 | 0.73 | 0.68 | 0.93 | 0.92 | 6.85 |
| 62: | 0.95 | 0.79 | 0.94 | 0.85 | 0.93 | 1.10 | 1.10 | 0.96 | 0.95 | 0.87 | 9.44 |
| 63: | 0.78 | 0.98 | 0.69 | 1.12 | 0.95 | 0.92 | 0.91 | 0.82 | 0.88 | 0.89 | 8.94 |
| 64: | 1.05 | 0.99 | 1.14 | 1.14 | 1.14 | 1.01 | 1.00 | 1.08 | 1.13 | 1.03 | 10.69 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 65: | 1.02 | 0.88 | 0.92 | 0.92 | 1.02 | 0.97 | 0.99 | 1.22 | 1.13 | 1.11 | 10.18 |
| 66: | 1.23 | 1.35 | 0.95 | 0.95 | 1.04 | 1.05 | 1.16 | 1.29 | 1.11 | 1.23 | 11.35 |
| 67: | 1.07 | 0.99 | 0.79 | 0.89 | 0.90 | 0.80 | 0.77 | 0.87 | 0.81 | 0.85 | 8.75 |
| 68: | 0.74 | 0.69 | 0.64 | 0.62 | 0.68 | 0.67 | 0.74 | 0.74 | 0.63 | 0.76 | 6.91 |
| 69: | 0.70 | 0.74 | 0.55 | 0.62 | 0.54 | 0.45 | 0.44 | 0.45 | 0.44 | 0.56 | 5.49 |
| 70: | 0.39 | 0.30 | 0.35 | 0.34 | 0.26 | 0.22 | 0.28 | 0.24 | 0.24 | 0.26 | 2.85 |
| 71: | 0.19 | 0.20 | 0.23 | 0.23 | 0.22 | 0.19 | 0.20 | 0.19 | 0.25 | 0.14 | 2.06 |
| 72: | 0.14 | 0.20 | 0.14 | 0.09 | 0.15 | 0.12 | 0.14 | 0.15 | 0.12 | 0.15 | 1.39 |
| 73: | 0.11 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.08 | 0.06 | 0.05 | 0.06 | 0.69 |
| 74: | 0.07 | 0.06 | 0.06 | 0.04 | 0.07 | 0.07 | 0.05 | 0.06 | 0.07 | 0.06 | 0.62 |
| 75: | 0.05 | 0.03 | 0.05 | 0.03 | 0.04 | 0.05 | 0.05 | 0.03 | 0.01 | 0.03 | 0.36 |
| 76: | 0.02 | 0.02 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.11 |
| 77: | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.08 |
| 78: | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.00 | 0.01 | 0.01 | 0.06 |
| 79: | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.02 | 0.01 | 0.11 |
| 80: | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 |

## Statistics Chart

S007_BLH080004_22052023_153454: Statistics Chart

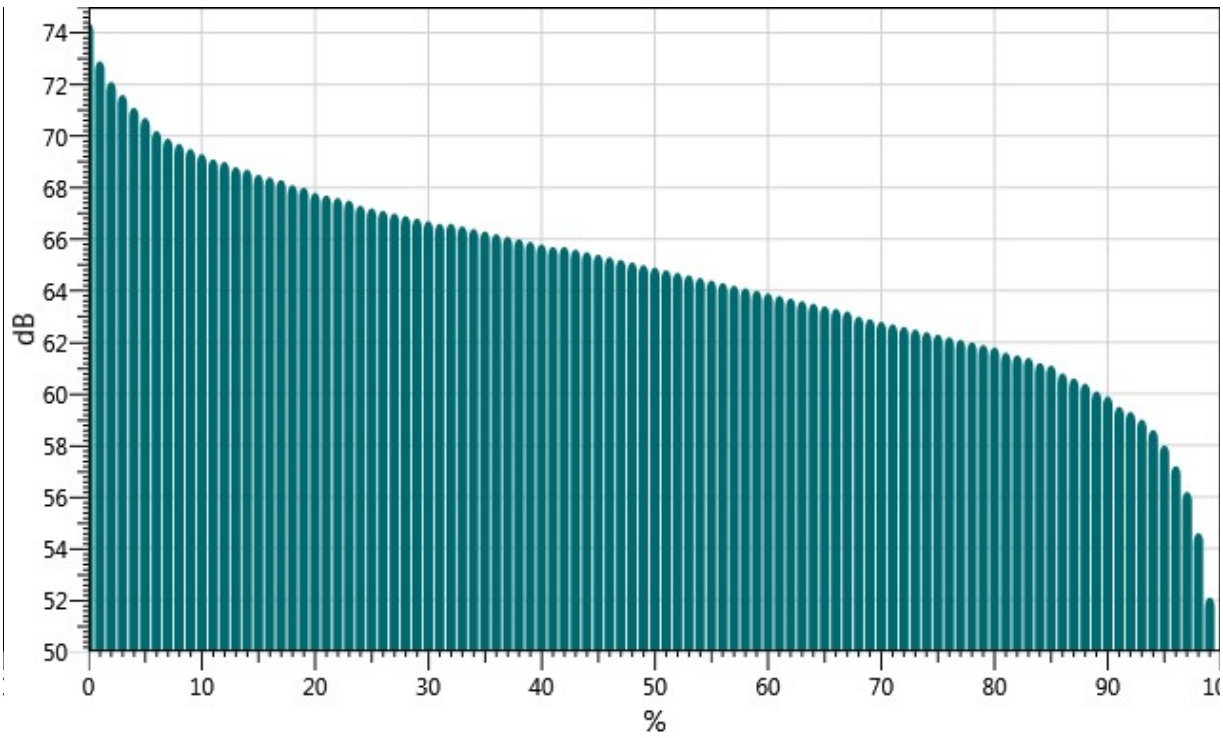


## Exceedance Table

| . | 0% | 1% | 2% | 3% | 4% | 5% | 6% | %7 | %8 | %9 |
|---|---|---|---|---|---|---|---|---|---|---|
| 0%: | | 74.4 | 72.9 | 72.1 | 71.6 | 71.1 | 70.7 | 70.2 | 69.9 | 69.7 |
| 10%: | 69.5 | 69.3 | 69.1 | 69.0 | 68.8 | 68.7 | 68.5 | 68.4 | 68.3 | 68.1 |
| 20%: | 68.0 | 67.8 | 67.7 | 67.6 | 67.5 | 67.3 | 67.2 | 67.1 | 67.0 | 66.9 |
| 30%: | 66.8 | 66.7 | 66.6 | 66.6 | 66.5 | 66.4 | 66.3 | 66.2 | 66.1 | 66.0 |
| 40%: | 65.9 | 65.8 | 65.7 | 65.7 | 65.6 | 65.5 | 65.4 | 65.3 | 65.2 | 65.1 |
| 50%: | 65.0 | 64.9 | 64.8 | 64.7 | 64.6 | 64.5 | 64.4 | 64.3 | 64.2 | 64.1 |
| 60%: | 64.0 | 63.9 | 63.8 | 63.7 | 63.6 | 63.5 | 63.4 | 63.3 | 63.2 | 63.0 |
| 70%: | 62.9 | 62.8 | 62.7 | 62.6 | 62.5 | 62.4 | 62.3 | 62.2 | 62.1 | 62.0 |
| 80%: | 61.9 | 61.8 | 61.6 | 61.5 | 61.4 | 61.2 | 61.1 | 60.8 | 60.6 | 60.4 |
| 90%: | 60.1 | 59.9 | 59.5 | 59.3 | 59.0 | 58.6 | 58.0 | 57.2 | 56.2 | 54.6 |
| 100%: | 52.1 | | | | | | | | | |

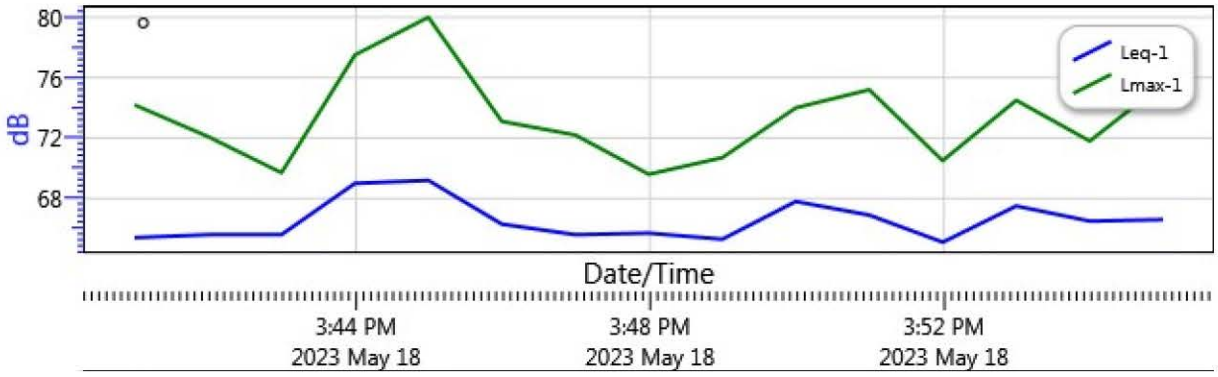
## Exceedance Chart

S007_BLH080004_22052023_153454: Exceedance Chart



## Logged Data Chart

S007_BLH080004_22052023_153454: Logged Data Chart



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# Noise Measurement Report Form – Part A

Date: 05/18/23 Day of Week: Thursday Time: 1314 Project Number: 7218

Monitoring Segment / Area: 5 Monitoring Site Address: 1027 Ridgewood Dr.

Measurement Taken By: Marissa Kassisieh of UltraSystems Environmental

Average Wind Speed: 1.4 mph [km/hr] Compass Heading (meter ⊥ to source) 170°S

Temp: 74.4 °F Relative Humidity: 67.8 % Compass Heading (into wind) 295°W

Cloud Cover Class (1 = heavy overcast, 2 = lightly overcast, 3 = sunny) 3

Approximate distance of sound level meter from receptor location: 22ft

Approximate distance of sound level meter from construction site: _____
(Leave Blank for Baseline Ambient)

Receptor Land Use (Check One): ☒ Residential ☐ Institutional ☐ Comm./Ind. ☐ Recreational

Sound Level Meter: Make and Model: Quest SoundPro DL-1-1/3 Serial Number: BLH080004

Meter Setting: ☒ A-Weighted Sound Level (SLOW) ☐ A-Weighted Sound Level (FAST)

Measurement Start Time: 1314 Measurement End Time: 1329

Total Measurement Time: 15min. Session File Name (e.g., S012): S005

Check the measurement purpose:

☒ Baseline condition ☐ Ongoing construction ☐ Caltrans ☐ Complaint response

## Measurement Results

| Measurement Type | Measured Levels (dB) |
|---|---|
| Calibration | Pre: 114.0 Post: 114.1 |
| $L_{eq\ (h)}$ | Slow: 54.4 Fast: |
| $L_{max}$ | Slow: 72.5 Fast: |
| $L_{90}$ | Slow: 42.0 Fast: |

**Field Notes:**

1. Traffic noise along Ridgewood Dr.
2. Birds chirping and dogs barking
3. _____

Noise Monitor's Signature: _____ Date: 05/18/23

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# Noise Measurement Report Form – Part B

Date: 05/18/23 Day of Week: Thursday Time: 1314 Project Number: 7218

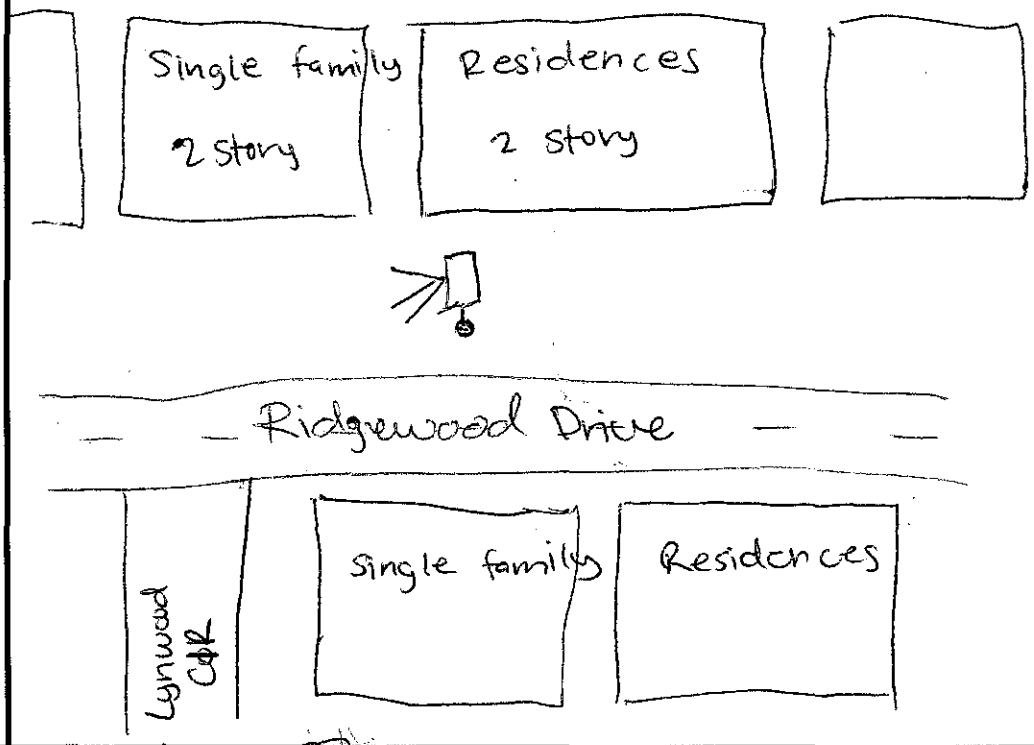
Monitoring Segment / Area: 5 Monitoring Site Address: 1027 Ridgewood Dr.

## Site Map

**Plan View**

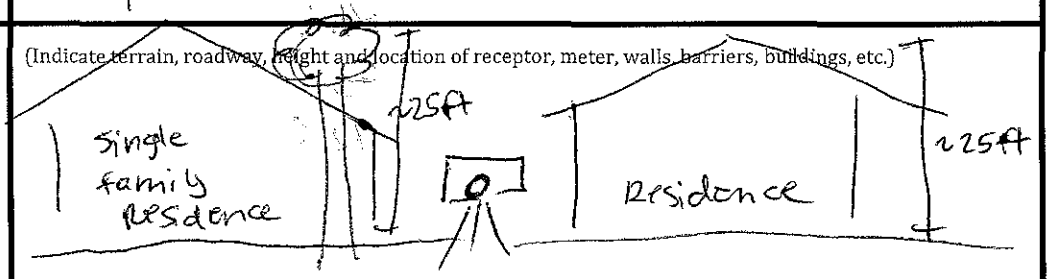
North Arrow (fill-in)

(Indicate site location, receptor location, meter location, distance in feet to landmarks, roadways, travel lane directions, geographical objects: trees, water, buildings, signs, store names, hydrants, power & telephone lines, manholes, etc.)




**Elevation View**

(Indicate terrain, roadway, height and location of receptor, meter, walls, barriers, buildings, etc.)




| Latitude: 33.856633° | Longitude: -117.546921° | Elevation: 801 ft |
|---|---|---|

Noise Monitor's Signature: _____ Date: 05/18/23

# Session Report

**5/22/2023**

## Information Panel

| | |
|---|---|
| Name | S005_BLH080004_22052023_153440 |
| Start Time | 5/18/2023 1:13:44 PM |
| Stop Time | 5/18/2023 1:28:44 PM |
| Device Name | BLH080004 |
| Model Type | SoundPro DL |
| Device Firmware Rev | R.13J |
| Comments | |

## Summary Data Panel

| Description | Meter | Value | Description | Meter | Value |
|---|---|---|---|---|---|
| Leq | 1 | 54.4 dB | L90 | 1 | 42 dB |
| Lmax | 1 | 72.5 dB | Lmin | 1 | 40.1 dB |
| Exchange Rate | 1 | 3 dB | Weighting | 1 | A |
| Response | 1 | SLOW | Bandwidth | 1 | OFF |
| Exchange Rate | 2 | 5 dB | Weighting | 2 | A |
| Response | 2 | FAST | | | |

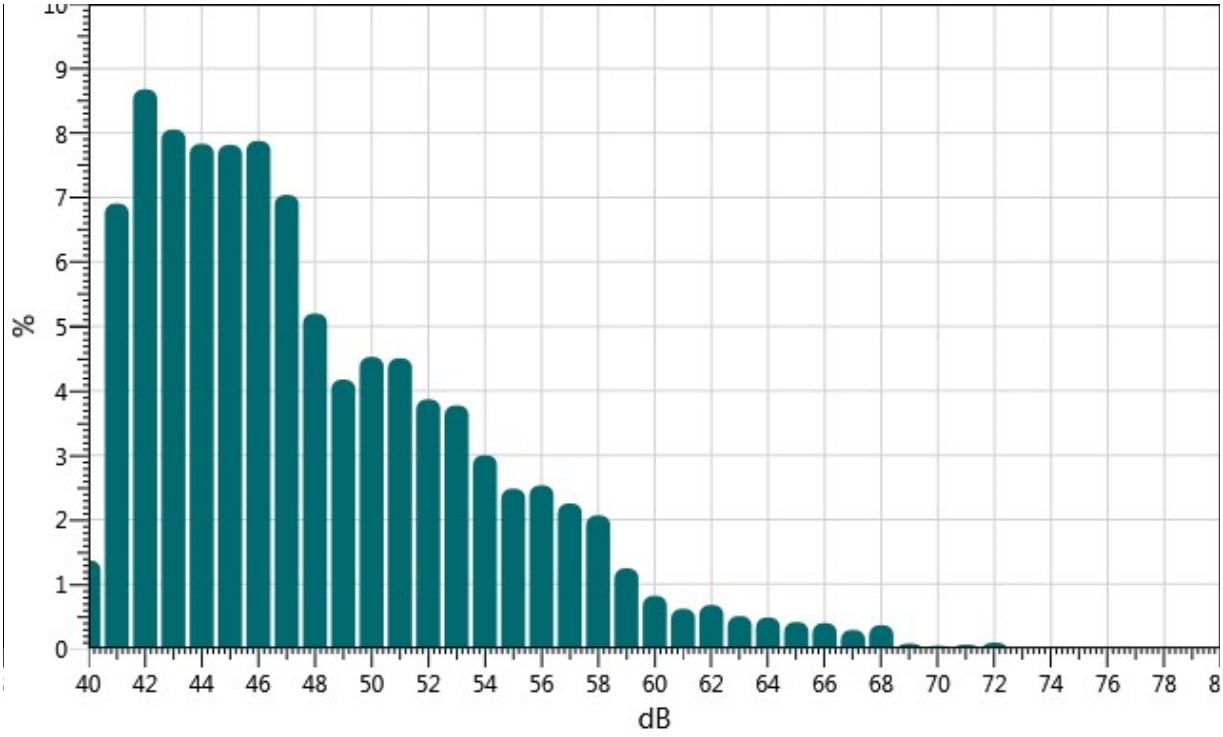
## Statistics Table

| dB: | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 | % |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 40: | 0.00 | 0.00 | 0.03 | 0.02 | 0.05 | 0.13 | 0.14 | 0.19 | 0.40 | 0.42 | 1.37 |
| 41: | 0.58 | 0.68 | 0.59 | 0.46 | 0.78 | 0.67 | 0.61 | 0.72 | 0.87 | 0.95 | 6.90 |
| 42: | 1.24 | 0.85 | 0.92 | 0.87 | 0.87 | 0.80 | 0.86 | 0.77 | 0.74 | 0.76 | 8.68 |
| 43: | 0.82 | 0.86 | 0.81 | 0.79 | 0.73 | 0.76 | 0.71 | 0.87 | 0.91 | 0.79 | 8.05 |
| 44: | 0.92 | 0.77 | 0.78 | 0.81 | 0.80 | 0.74 | 0.77 | 0.74 | 0.71 | 0.80 | 7.83 |
| 45: | 0.83 | 0.87 | 0.59 | 0.83 | 0.86 | 0.76 | 0.78 | 0.71 | 0.77 | 0.83 | 7.81 |
| 46: | 0.82 | 0.73 | 0.80 | 0.81 | 0.80 | 0.84 | 0.81 | 0.80 | 0.75 | 0.72 | 7.88 |
| 47: | 0.74 | 0.81 | 0.68 | 0.78 | 0.71 | 0.70 | 0.71 | 0.67 | 0.63 | 0.60 | 7.04 |
| 48: | 0.66 | 0.65 | 0.37 | 0.62 | 0.53 | 0.48 | 0.51 | 0.50 | 0.44 | 0.43 | 5.20 |
| 49: | 0.45 | 0.39 | 0.43 | 0.46 | 0.40 | 0.46 | 0.38 | 0.38 | 0.40 | 0.42 | 4.17 |
| 50: | 0.44 | 0.43 | 0.47 | 0.47 | 0.46 | 0.43 | 0.39 | 0.43 | 0.48 | 0.52 | 4.52 |
| 51: | 0.53 | 0.51 | 0.38 | 0.48 | 0.42 | 0.47 | 0.44 | 0.41 | 0.43 | 0.43 | 4.50 |
| 52: | 0.41 | 0.37 | 0.40 | 0.37 | 0.37 | 0.40 | 0.36 | 0.38 | 0.41 | 0.39 | 3.87 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 53: | 0.38 | 0.36 | 0.38 | 0.36 | 0.38 | 0.38 | 0.41 | 0.35 | 0.37 | 0.40 | 3.77 |
| 54: | 0.45 | 0.49 | 0.26 | 0.27 | 0.27 | 0.26 | 0.29 | 0.27 | 0.22 | 0.22 | 3.00 |
| 55: | 0.29 | 0.32 | 0.26 | 0.28 | 0.25 | 0.23 | 0.21 | 0.20 | 0.22 | 0.23 | 2.48 |
| 56: | 0.21 | 0.23 | 0.24 | 0.21 | 0.25 | 0.25 | 0.28 | 0.27 | 0.28 | 0.31 | 2.53 |
| 57: | 0.28 | 0.24 | 0.18 | 0.22 | 0.22 | 0.20 | 0.21 | 0.19 | 0.25 | 0.24 | 2.25 |
| 58: | 0.23 | 0.24 | 0.26 | 0.19 | 0.20 | 0.21 | 0.20 | 0.17 | 0.19 | 0.17 | 2.07 |
| 59: | 0.15 | 0.13 | 0.13 | 0.15 | 0.14 | 0.13 | 0.10 | 0.10 | 0.10 | 0.11 | 1.24 |
| 60: | 0.11 | 0.10 | 0.07 | 0.09 | 0.08 | 0.09 | 0.08 | 0.07 | 0.06 | 0.07 | 0.82 |
| 61: | 0.07 | 0.07 | 0.06 | 0.06 | 0.06 | 0.05 | 0.06 | 0.06 | 0.06 | 0.07 | 0.62 |
| 62: | 0.10 | 0.06 | 0.06 | 0.07 | 0.07 | 0.09 | 0.09 | 0.05 | 0.05 | 0.05 | 0.68 |
| 63: | 0.05 | 0.09 | 0.04 | 0.07 | 0.04 | 0.05 | 0.05 | 0.06 | 0.03 | 0.03 | 0.50 |
| 64: | 0.03 | 0.04 | 0.06 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.48 |
| 65: | 0.05 | 0.04 | 0.05 | 0.05 | 0.03 | 0.03 | 0.04 | 0.04 | 0.03 | 0.04 | 0.41 |
| 66: | 0.04 | 0.04 | 0.02 | 0.04 | 0.04 | 0.03 | 0.04 | 0.04 | 0.04 | 0.06 | 0.39 |
| 67: | 0.04 | 0.06 | 0.05 | 0.01 | 0.02 | 0.02 | 0.02 | 0.04 | 0.02 | 0.01 | 0.29 |
| 68: | 0.02 | 0.02 | 0.03 | 0.03 | 0.02 | 0.05 | 0.03 | 0.04 | 0.05 | 0.07 | 0.36 |
| 69: | 0.02 | 0.02 | 0.01 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.01 | 0.00 | 0.08 |
| 70: | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | 0.01 | 0.01 | 0.00 | 0.01 | 0.01 | 0.04 |
| 71: | 0.01 | 0.01 | 0.01 | 0.00 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.06 |
| 72: | 0.01 | 0.01 | 0.01 | 0.01 | 0.03 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.09 |

## Statistics Chart

S005_BLH080004_22052023_153440: Statistics Chart

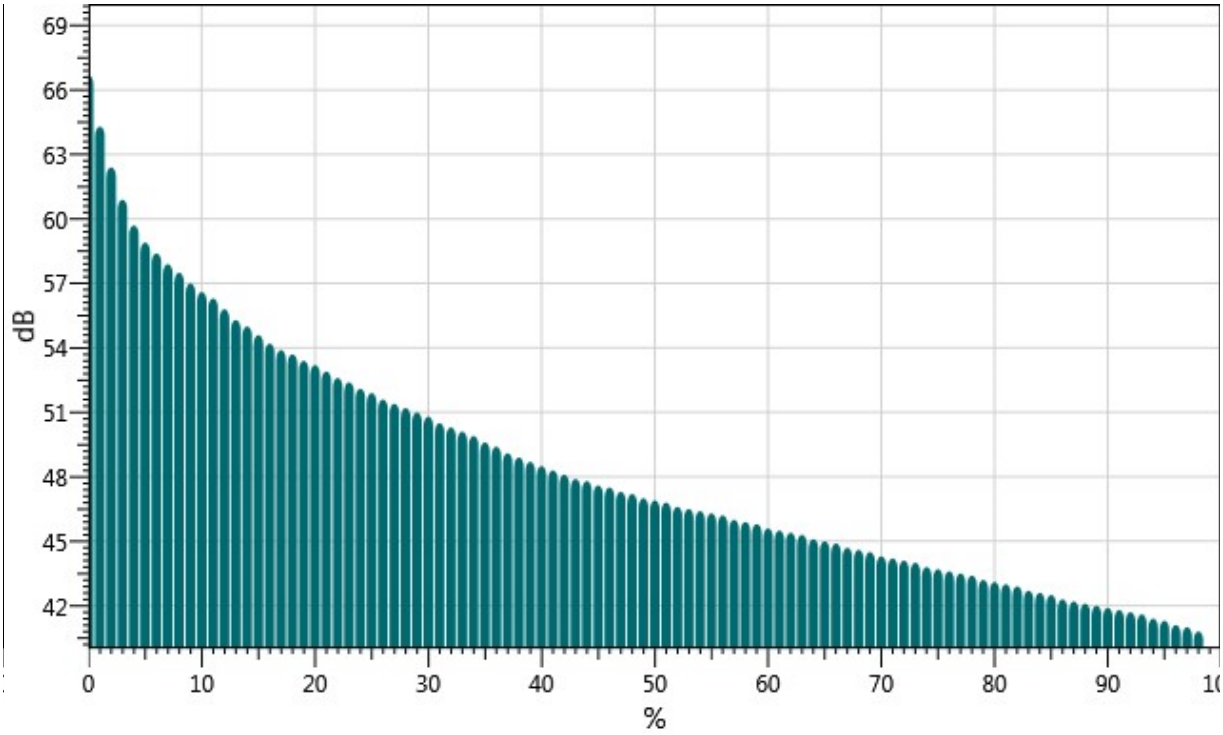



## Exceedance Table

| . | 0% | 1% | 2% | 3% | 4% | 5% | 6% | %7 | %8 | %9 |
|---|---|---|---|---|---|---|---|---|---|---|
| 0%: | | 66.7 | 64.3 | 62.4 | 60.9 | 59.7 | 58.9 | 58.4 | 57.9 | 57.5 |
| 10%: | 57.0 | 56.6 | 56.3 | 55.8 | 55.3 | 55.0 | 54.6 | 54.2 | 53.9 | 53.7 |
| 20%: | 53.4 | 53.2 | 52.9 | 52.6 | 52.4 | 52.1 | 51.9 | 51.6 | 51.4 | 51.2 |
| 30%: | 51.0 | 50.8 | 50.5 | 50.3 | 50.1 | 49.9 | 49.6 | 49.4 | 49.1 | 48.9 |
| 40%: | 48.7 | 48.5 | 48.3 | 48.1 | 47.9 | 47.8 | 47.6 | 47.5 | 47.3 | 47.2 |
| 50%: | 47.0 | 46.9 | 46.8 | 46.6 | 46.5 | 46.4 | 46.3 | 46.2 | 46.0 | 45.9 |
| 60%: | 45.8 | 45.6 | 45.5 | 45.4 | 45.3 | 45.1 | 45.0 | 44.9 | 44.7 | 44.6 |
| 70%: | 44.5 | 44.3 | 44.2 | 44.1 | 44.0 | 43.8 | 43.7 | 43.6 | 43.5 | 43.4 |
| 80%: | 43.2 | 43.1 | 43.0 | 42.9 | 42.7 | 42.6 | 42.5 | 42.3 | 42.2 | 42.1 |
| 90%: | 42.0 | 41.9 | 41.8 | 41.7 | 41.6 | 41.4 | 41.3 | 41.1 | 41.0 | 40.8 |
| 100%: | 40.0 | | | | | | | | | |

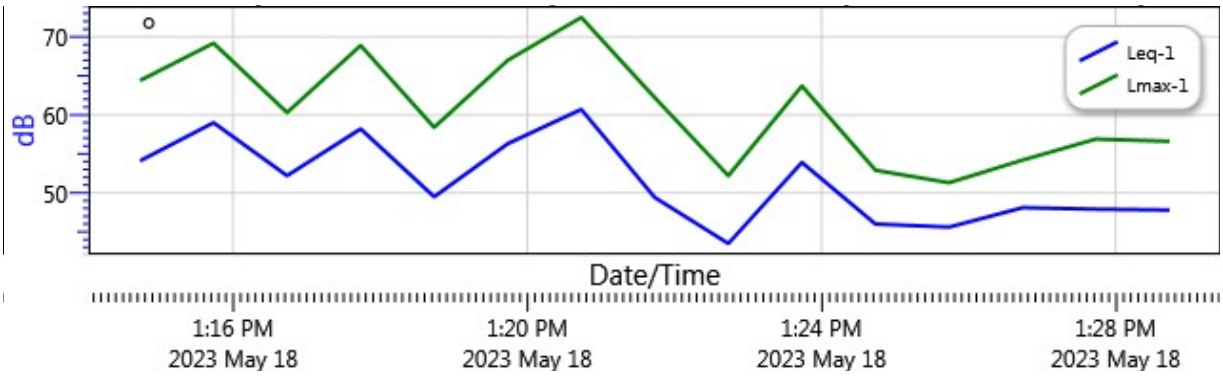
## Exceedance Chart

S005_BLH080004_22052023_153440: Exceedance Chart




## Logged Data Chart

S005_BLH080004_22052023_153440: Logged Data Chart



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# Noise Measurement Report Form – Part A

Date: 5/18/23 Day of Week: Thursday Time: 12:31 Project Number: 7218

Monitoring Segment / Area: 6 Monitoring Site Address: 1980 Fullerton Avenue

Measurement Taken By: Patricia Haigh of UltraSystems Environmental

Average Wind Speed: 3.2 mph [km/hr] Compass Heading (meter ⊥ to source) 77° E

Temp: 73.6 ° F Relative Humidity: 65.3 % Compass Heading (into wind) 13° N

Cloud Cover Class (1 = heavy overcast, 2 = lightly overcast, 3 = sunny) 3

Approximate distance of sound level meter from receptor location: 248 ft

Approximate distance of sound level meter from construction site: _____
(Leave Blank for Baseline Ambient)

Receptor Land Use (Check One): ☒ Residential ☒ Institutional ☐ Comm./Ind. ☐ Recreational

Sound Level Meter: Make and Model: Quest SoundPro DL-1-1/3 Serial Number: BLH080004

Meter Setting: ☒ A-Weighted Sound Level (SLOW) ☐ A-Weighted Sound Level (FAST)

Measurement Start Time: 1231 Measurement End Time: 1246

Total Measurement Time: 15 min Session File Name (e.g., S012): S004

Check the measurement purpose:

☒ Baseline condition ☐ Ongoing construction ☐ Caltrans ☐ Complaint response

## Measurement Results

| Measurement Type | Measured Levels (dB) |
|---|---|
| Calibration | Pre: 114.0 Post: 114.0 |
| $L_{eq\ (h)}$ | Slow: 64.2 Fast: |
| $L_{max}$ | Slow: 75.9 Fast: |
| $L_{90}$ | Slow: 49.9 Fast: |

**Field Notes:**

1. Traffic Noise along Fullerton Ave
2. _____
3. _____

Noise Monitor's Signature: _____ Date: 5/18/23

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# Noise Measurement Report Form – Part B

Date: 5/18/23 Day of Week: Thursday Time: 1231 Project Number: 7218

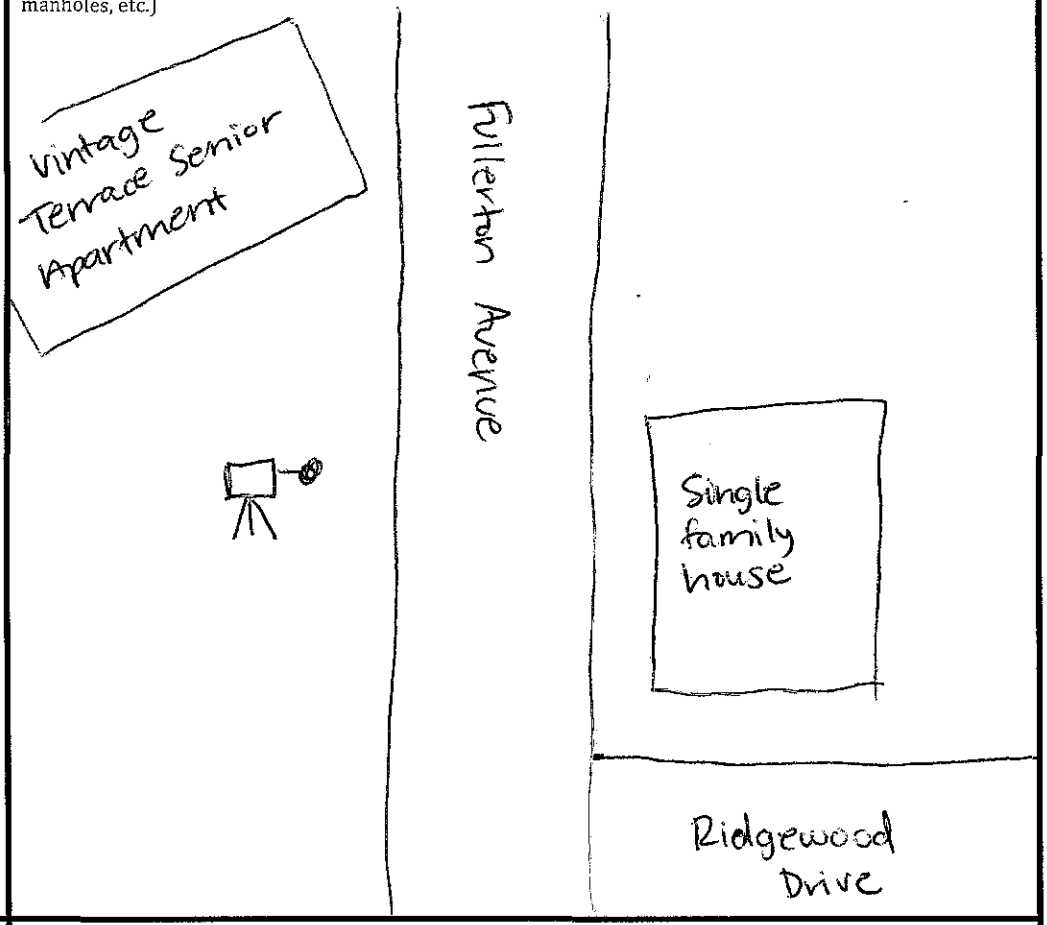
Monitoring Segment / Area: 6 Monitoring Site Address: 1980 Fullerton Avenue

## Site Map

**Plan View**

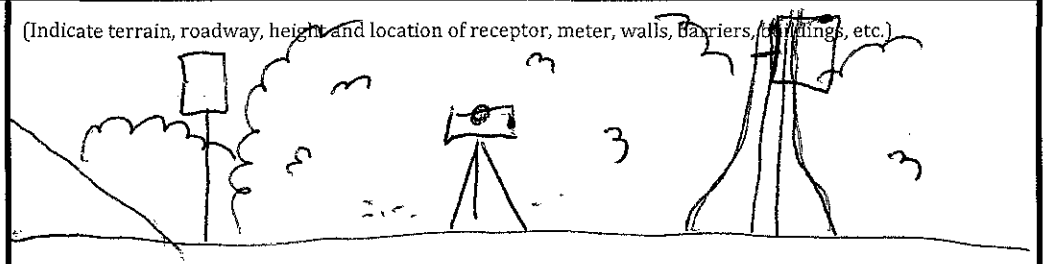
North Arrow (fill-in)

(Indicate site location, receptor location, meter location, distance in feet to landmarks, roadways, travel lane directions, geographical objects: trees, water, buildings, signs, store names, hydrants, power & telephone lines, manholes, etc.)




**Elevation View**

(Indicate terrain, roadway, height and location of receptor, meter, walls, barriers, buildings, etc.)



| Latitude: 33.856792° | Longitude: -117.550460° | Elevation: 821 ft |
|---|---|---|

Noise Monitor's Signature: _____ Date: 5/18/23

# Session Report

**5/22/2023**

## Information Panel

| | |
|---|---|
| Name | S004_BLH080004_22052023_153432 |
| Start Time | 5/18/2023 12:31:38 PM |
| Stop Time | 5/18/2023 12:46:38 PM |
| Device Name | BLH080004 |
| Model Type | SoundPro DL |
| Device Firmware Rev | R.13J |
| Comments | |

## Summary Data Panel

| Description | Meter | Value | Description | Meter | Value |
|---|---|---|---|---|---|
| Leq | 1 | 64.2 dB | L90 | 1 | 49.9 dB |
| Lmax | 1 | 75.9 dB | Lmin | 1 | 45.1 dB |
| Exchange Rate | 1 | 3 dB | Weighting | 1 | A |
| Response | 1 | SLOW | Bandwidth | 1 | OFF |
| Exchange Rate | 2 | 5 dB | Weighting | 2 | A |
| Response | 2 | FAST | | | |

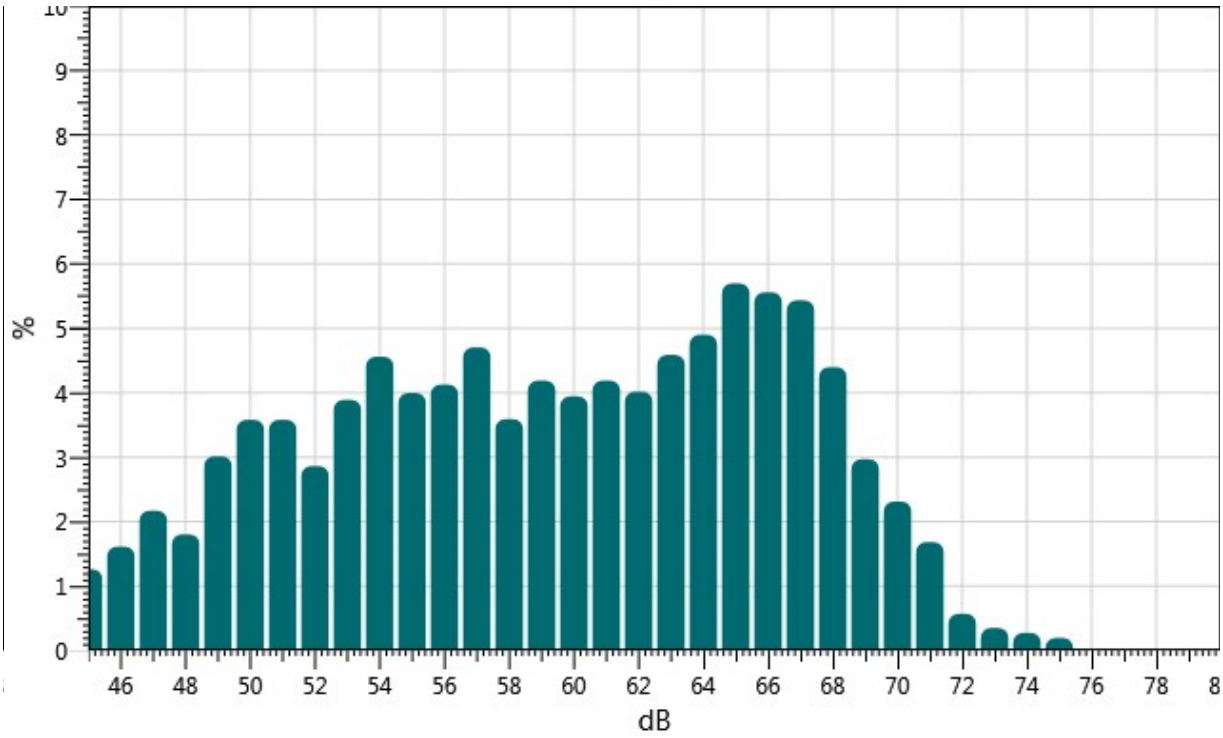
## Statistics Table

| dB: | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 | % |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 45: | 0.00 | 0.01 | 0.07 | 0.11 | 0.22 | 0.18 | 0.12 | 0.17 | 0.26 | 0.14 | 1.26 |
| 46: | 0.13 | 0.13 | 0.15 | 0.16 | 0.18 | 0.15 | 0.07 | 0.13 | 0.23 | 0.28 | 1.61 |
| 47: | 0.32 | 0.32 | 0.27 | 0.19 | 0.20 | 0.16 | 0.16 | 0.13 | 0.19 | 0.23 | 2.17 |
| 48: | 0.23 | 0.20 | 0.09 | 0.11 | 0.13 | 0.20 | 0.16 | 0.19 | 0.25 | 0.23 | 1.80 |
| 49: | 0.35 | 0.31 | 0.32 | 0.28 | 0.22 | 0.28 | 0.23 | 0.34 | 0.34 | 0.34 | 3.01 |
| 50: | 0.40 | 0.30 | 0.32 | 0.30 | 0.44 | 0.41 | 0.37 | 0.35 | 0.36 | 0.33 | 3.58 |
| 51: | 0.40 | 0.43 | 0.23 | 0.33 | 0.33 | 0.36 | 0.37 | 0.37 | 0.36 | 0.40 | 3.58 |
| 52: | 0.38 | 0.34 | 0.28 | 0.29 | 0.31 | 0.30 | 0.26 | 0.25 | 0.22 | 0.23 | 2.86 |
| 53: | 0.32 | 0.33 | 0.30 | 0.32 | 0.32 | 0.38 | 0.35 | 0.52 | 0.50 | 0.55 | 3.89 |
| 54: | 0.53 | 0.50 | 0.36 | 0.46 | 0.54 | 0.44 | 0.45 | 0.46 | 0.45 | 0.37 | 4.56 |
| 55: | 0.39 | 0.45 | 0.38 | 0.35 | 0.40 | 0.39 | 0.36 | 0.41 | 0.42 | 0.44 | 3.99 |
| 56: | 0.41 | 0.37 | 0.34 | 0.44 | 0.43 | 0.42 | 0.39 | 0.49 | 0.42 | 0.42 | 4.13 |
| 57: | 0.44 | 0.49 | 0.34 | 0.54 | 0.50 | 0.48 | 0.50 | 0.50 | 0.48 | 0.44 | 4.70 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 58: | 0.45 | 0.43 | 0.36 | 0.35 | 0.34 | 0.35 | 0.32 | 0.32 | 0.33 | 0.35 | 3.59 |
| 59: | 0.38 | 0.47 | 0.42 | 0.45 | 0.43 | 0.36 | 0.38 | 0.41 | 0.44 | 0.46 | 4.19 |
| 60: | 0.45 | 0.53 | 0.34 | 0.39 | 0.38 | 0.38 | 0.35 | 0.34 | 0.40 | 0.39 | 3.94 |
| 61: | 0.39 | 0.36 | 0.32 | 0.47 | 0.43 | 0.41 | 0.46 | 0.43 | 0.41 | 0.50 | 4.19 |
| 62: | 0.40 | 0.41 | 0.36 | 0.36 | 0.36 | 0.35 | 0.36 | 0.40 | 0.51 | 0.48 | 4.02 |
| 63: | 0.46 | 0.52 | 0.39 | 0.55 | 0.52 | 0.49 | 0.41 | 0.43 | 0.41 | 0.41 | 4.59 |
| 64: | 0.46 | 0.41 | 0.40 | 0.42 | 0.46 | 0.45 | 0.53 | 0.57 | 0.59 | 0.61 | 4.90 |
| 65: | 0.63 | 0.50 | 0.56 | 0.62 | 0.54 | 0.53 | 0.68 | 0.56 | 0.58 | 0.52 | 5.70 |
| 66: | 0.50 | 0.51 | 0.34 | 0.50 | 0.54 | 0.62 | 0.64 | 0.66 | 0.69 | 0.55 | 5.56 |
| 67: | 0.52 | 0.48 | 0.49 | 0.49 | 0.59 | 0.53 | 0.54 | 0.61 | 0.57 | 0.61 | 5.43 |
| 68: | 0.59 | 0.43 | 0.46 | 0.47 | 0.49 | 0.41 | 0.44 | 0.39 | 0.36 | 0.36 | 4.40 |
| 69: | 0.42 | 0.36 | 0.26 | 0.27 | 0.30 | 0.32 | 0.26 | 0.26 | 0.25 | 0.25 | 2.97 |
| 70: | 0.31 | 0.26 | 0.29 | 0.34 | 0.26 | 0.19 | 0.15 | 0.14 | 0.20 | 0.17 | 2.31 |
| 71: | 0.15 | 0.23 | 0.22 | 0.19 | 0.20 | 0.11 | 0.18 | 0.16 | 0.13 | 0.11 | 1.68 |
| 72: | 0.09 | 0.10 | 0.05 | 0.04 | 0.05 | 0.05 | 0.07 | 0.04 | 0.04 | 0.04 | 0.57 |
| 73: | 0.03 | 0.03 | 0.04 | 0.04 | 0.04 | 0.04 | 0.05 | 0.02 | 0.03 | 0.02 | 0.35 |
| 74: | 0.03 | 0.02 | 0.03 | 0.02 | 0.03 | 0.05 | 0.03 | 0.02 | 0.02 | 0.02 | 0.27 |
| 75: | 0.03 | 0.04 | 0.03 | 0.01 | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 | 0.02 | 0.19 |

## Statistics Chart

S004_BLH080004_22052023_153432: Statistics Chart

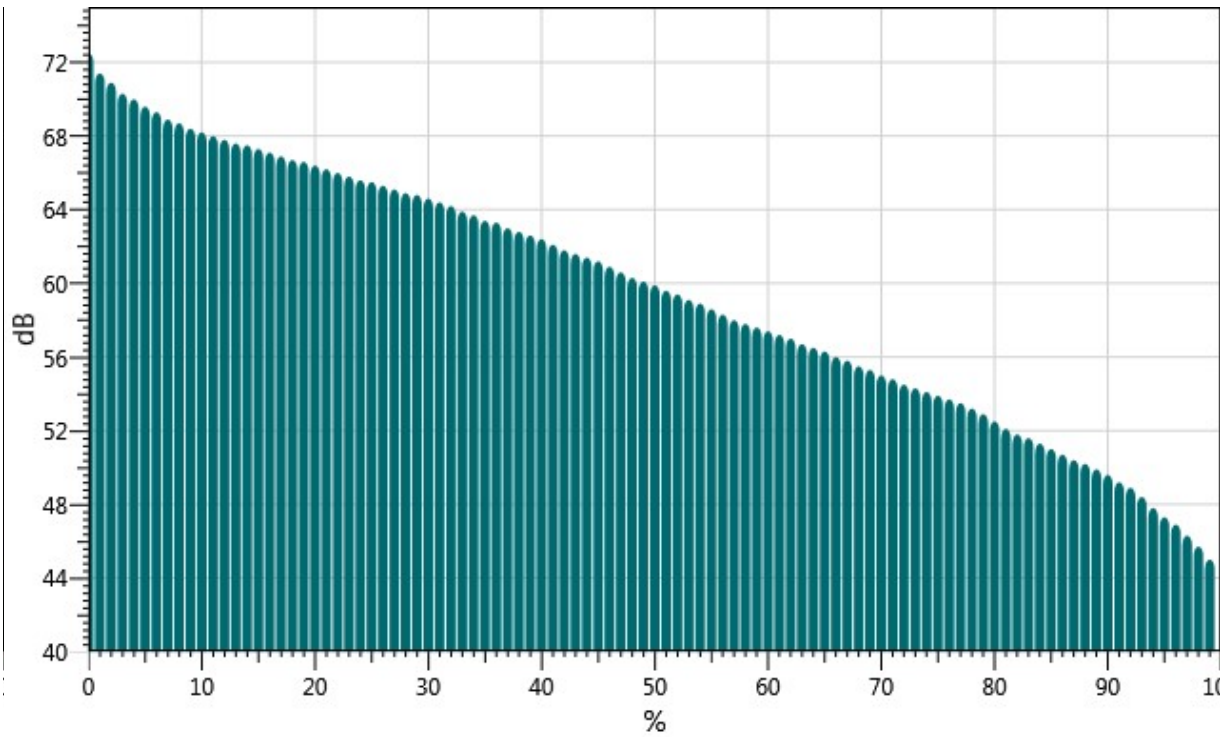


## Exceedance Table

| . | 0% | 1% | 2% | 3% | 4% | 5% | 6% | %7 | %8 | %9 |
|---|---|---|---|---|---|---|---|---|---|---|
| 0%: | | 72.5 | 71.4 | 70.9 | 70.3 | 70.0 | 69.6 | 69.3 | 68.9 | 68.7 |
| 10%: | 68.4 | 68.2 | 68.0 | 67.8 | 67.6 | 67.5 | 67.3 | 67.1 | 66.9 | 66.7 |
| 20%: | 66.6 | 66.4 | 66.2 | 66.0 | 65.8 | 65.6 | 65.5 | 65.3 | 65.1 | 64.9 |
| 30%: | 64.8 | 64.6 | 64.4 | 64.2 | 63.9 | 63.7 | 63.4 | 63.3 | 63.0 | 62.8 |
| 40%: | 62.6 | 62.4 | 62.1 | 61.8 | 61.6 | 61.4 | 61.2 | 60.9 | 60.6 | 60.3 |
| 50%: | 60.1 | 59.9 | 59.6 | 59.4 | 59.1 | 58.9 | 58.6 | 58.3 | 58.0 | 57.8 |
| 60%: | 57.6 | 57.4 | 57.2 | 57.0 | 56.7 | 56.5 | 56.3 | 56.0 | 55.8 | 55.5 |
| 70%: | 55.3 | 55.0 | 54.8 | 54.5 | 54.3 | 54.1 | 53.9 | 53.7 | 53.5 | 53.2 |
| 80%: | 52.9 | 52.5 | 52.1 | 51.8 | 51.6 | 51.3 | 51.0 | 50.7 | 50.4 | 50.2 |
| 90%: | 49.9 | 49.6 | 49.2 | 48.9 | 48.4 | 47.8 | 47.3 | 46.9 | 46.3 | 45.7 |
| 100%: | 45.0 | | | | | | | | | |

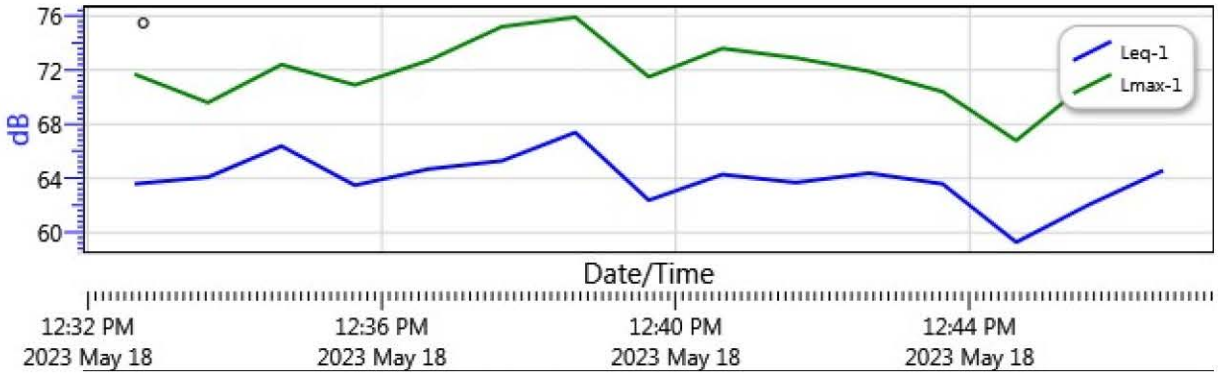
## Exceedance Chart

S004_BLH080004_22052023_153432: Exceedance Chart



## Logged Data Chart

S004_BLH080004_22052023_153432: Logged Data Chart



# APPENDIX H

# LIMITED VMT ANALYSIS

May 24, 2023

Ms. Betsy Lindsay
ULTRASYSTEMS ENVIRONMENTAL
16431 Scientific Way
Irvine, CA 92618

**Subject: Centennial High School Aquatics Center Vehicle Miles Traveled (VMT) Screening Analysis, City of Corona**

Dear Ms. Lindsay:

## Introduction

RK ENGINEERING GROUP, INC. (RK) is pleased to provide this Vehicle Miles Traveled (VMT) analysis for the proposed Centennial High School Aquatics Center project. The project site is located at 1820 Rimpau Avenue, bound between Fullerton Avenue to the west and Rimpau Avenue to the east, in the City of Corona.

The purpose of this screening analysis is to utilize the *Draft City of Corona CEQA Assessment - VMT Analysis Guidelines,* dated January 11, 2019 (VMT Guidelines), which establishes uniform analysis methodologies and thresholds of significance for determining VMT impacts under the California Environmental Quality Act (CEQA), to determine if the project will require a full VMT modeling analysis.

## Project Description

The proposed Centennial High School Aquatics Center project (hereinafter referred to as project) consists of replacing and remodeling the existing pool/aquatics facility at Centennial High School, which is part of the Corona-Norco Unified School District. The typical daily usage of the new aquatics center is anticipated to remain the same as the existing pool facility. The new center will provide a modern and upgraded facility to host periodic local and regional swim meets.

Exhibit A illustrates the location of the project site. Exhibit B shows the proposed site plan.

## VMT Screening Assessment

Effective July 1st, 2020, the longstanding metric of roadway level of service (LOS), which is typically measured in terms of vehicle delay, roadway capacity and congestion, will no longer be considered a significant impact under the California Environmental Quality Act (CEQA). Pursuant to CEQA Guidelines, Section 15064.3, VMT is now the most appropriate measure of transportation impacts.

The City of Corona has provided a memorandum *Draft City of Corona CEQA Assessment – VMT Analysis Guidelines*, dated January 11, 2019, prepared by Fehr & Peers, to provide recommendations in the form of thresholds of significance and methodology for identifying VMT-related impacts. The memorandum identifies screening thresholds that may quickly identify whether or not a project should be expected to have a less than significant impact without conducting a detailed project-level assessment. For Land use Projects, projects may screen out using one of the following screening types:

- Transit Priority Area (TPA) Screening
- Low VMT Area Screening
- Project Type Screening

Also, although not explicitly stated in the City's VMT Guidelines, small projects that generate or attract fewer than 110 daily trips can be presumed to have a less than significant impact absent substantial evidence to the contrary, as detailed in the *Technical Advisory on Evaluating Transportation Impacts in California Environmental Quality Act (CEQA)*, dated December 2018, prepared by the State of California Governor's Office of Planning and Research (OPR).

Since the typical daily operations of the new aquatics center is anticipated to generally remain the same after the remodel, the project is not expected to generate more than 110 new daily trips. It should be noted that although the aquatics facility would be utilized to host local and regional swim meets, these conditions would be considered special events and would therefore not impact the number of average daily trips.

Since the project is expected to generate fewer than 110 new trips per day, the project may be presumed to have a less than significant VMT impact under CEQA. Thus, no further VMT analysis is required.

## Conclusions

RK Engineering Group, Inc. has completed this Vehicle Miles Traveled (VMT) Analysis for the proposed Centennial High School Aquatics Center project.

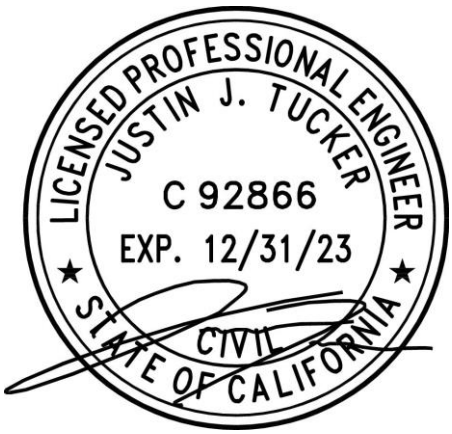
Consistent with the *Technical Advisory on Evaluating Transportation Impacts in California Environmental Quality Act (CEQA)*, dated December 2018, prepared by the State of California Governor's Office of Planning and Research (OPR), since the project is expected to generate fewer than 110 new trips per day, the project may be presumed to have a less than significant VMT impact under CEQA. Thus, no further VMT analysis is required.

RK Engineering Group, Inc. appreciates this opportunity to assist ULTRASYSTEMS ENVIRONMENTAL with this project. If you have any questions regarding this study, please do not hesitate to contact us at (949) 474-0809.

Sincerely,

RK ENGINEERING GROUP, INC.

Justin Tucker, P.E.
Principal Engineer




Nhi Ly, E.I.T.
Engineer I

# Exhibits

Exhibit A

# Location Map




**Legend:**

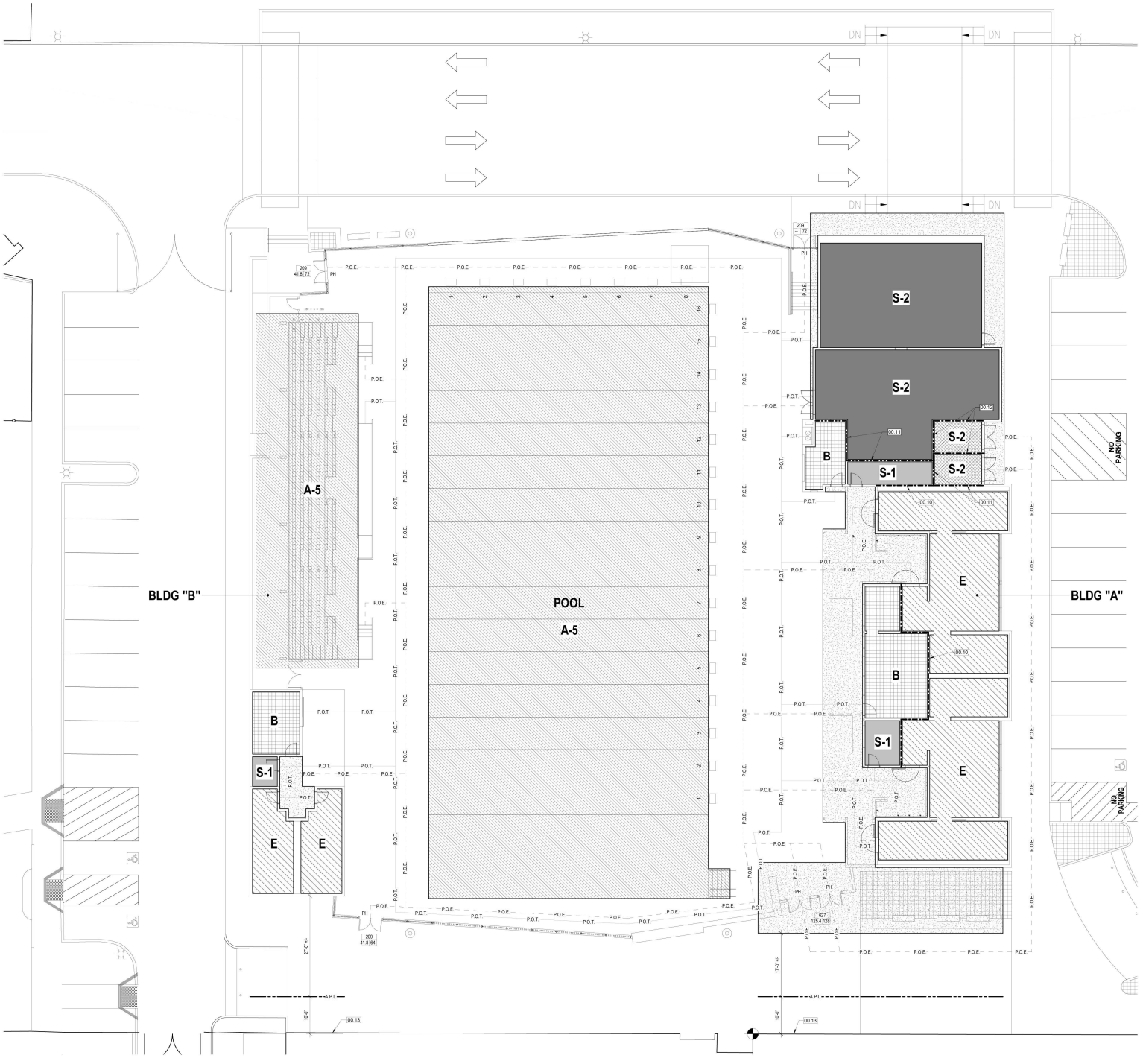
= Centennial High School

= Existing Aquatics Center

N

Exhibit B

# Site Plan

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RK engineering group, inc.