



Public Draft Initial Study/Proposed Mitigated Negative Declaration for the

Bridgeway Commons Residential Condominiums Project

Prepared for: City of Sausalito Community Development Department

March 2025

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Prepared for:

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LIST OF ABBREVIATIONS

°C degrees	Celsius
	Fahrenheit
AB Assembly	y Bill
ABAG Associati	ion of Bay Area Governments
BAAQMD Bay Area	a Air Quality Management District
-	icisco Bay Basin
	nagement Practices
CAAQS California	a ambient air quality standards
CALGreen California	a Green Building Standards Code
California MUTCD California	a Manual on Uniform Traffic Control Devices
Caltrans California	a Department of Transportation
CAP climate a	action plan
CAPCOA California	a Air Pollution Control Officers Association
CARB California	a Air Resources Board
CBC California	a Building Code
CCA commun	nity choice aggregate
CCR California	a Code of Regulations
CDFW California	a Department of Fish and Wildlife
CEC California	a Energy Commission
CEQA California	a Environmental Quality Act
CESA California	a Endangered Species Act
CFC California	a Fire Code
City City of Sa	ausalito
CNDDB California	a Natural Diversity Database
CNEL Commun	nity Noise Equivalent Level
CNRA California	a Natural Resources Agency's
CO Carbon n	monoxide
CO ₂ carbon d	lioxide
CRHR California	a Register of Historic Resources
dB decibel	- Department of Toxic Culture - Court - "
DTSC California	a Department of Toxic Substances Control's
EOP Emergen	ncy Operations Plan
ESA Endange	ered Species Act
EV electric v	vehicle

FHSZ	Fire Hazard Severity Zones
FICON	Federal Interagency Committee on Noise
FTA	Federal Transit Administration
GGNRA	Golden Gate National Recreation Area
GWh	gigawatt-hours
GWP	global warming potential
Handbook	Handbook for Analyzing GHG Emission Reductions, Assessing Climate Vulnerabilities, and Advancing Health and Equity
HLB	Historic Landmarks Borad's
HPC	Historic Preservation Commission
HRE	Historic Resource Evaluations
IM	Industrial-Marinship
IPaC	Information for Planning and Consultation
IS	Initial Study
LBP	lead-based paint
L _{dn}	Day-Night Level
L _{eq}	Equivalent Continuous Sound Level
L _{max}	Maximum Sound Level
LRA	local responsibility area
LUST	leaking underground storage tanks
MCE	Marin Clean Energy
MG	million gallons
mgd	million gallons per day
MMTCO ₂ e	million metric tons of carbon dioxide equivalent
MMWD	Marin Municipal Water District
MND	Mitigated Negative Declaration
mph	miles per hour
MTC	Metropolitan Transportation Commission
NAAQS	national ambient air quality standards
NAHC	Native American Heritage Commission
NOI	Notice of Intent to Adopt a Mitigated Negative Declaration
NO _X	nitrogen oxides
NWIC	Northwest Information Center
OPR	California Governor's Office of Planning and Research
PG&E	Pacific Gas and Electric Company

PM ₁₀	particular matter with an aerodynamic resistance diameter of 10 micrometers or less
PM _{2.5}	fine particulate matter with an aerodynamic resistance diameter of 2.5 micrometers or less
PPV	Peak Particle Velocity
PRC	Public Resources Code
Project	Bridgeway Commons Residential Condominiums Project
R-3	Multiple Family Residential
RHNA	Regional Housing Needs Allocation
ROG	reactive organic gases
RWQCB	Regional Water Quality Control Board
SMCSD	Sausalito-Marin City Sanitary District
SMFPD	Southern Marin Fire Protection District
SO ₂	sulfur dioxide
SPD	Sausalito Police Department
SRA	state responsibility area
SWRCB	State Water Resources Control Board's
TAC	toxic air contaminants
TAMDM	Transportation Authority of Marin Demand Model
TAZ	transportation analysis zone
VdB	Vibration Decibels
VMT	vehicle miles traveled
WUI	Wildland Urban Interface

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1 INTRODUCTION

This Initial Study/Proposed Mitigation Negative Declaration (IS/Proposed MND) has been prepared for the City of Sausalito to evaluate potential environmental effects resulting from the Bridgeway Commons Residential Condominiums Project (project).

This document has been prepared in accordance with the California Environmental Quality Act (CEQA) (Public Resources Code Section 21000 et seq.) and the State CEQA Guidelines (California Code of Regulations Section 15000 et seq.). An initial study is prepared by a lead agency to determine if a project may have a significant effect on the environment (State CEQA Guidelines Section 15063[a]), and thus to determine the appropriate environmental document. In accordance with State CEQA Guidelines Section 15070, a "public agency shall prepare...a proposed negative declaration or mitigated negative declaration...when: (a) The Initial Study shows that there is no substantial evidence...that the project may have a significant impact on the environment, or (b) The Initial Study identifies potentially significant effects but revisions to the project plans or proposal are agreed to by the applicant and such revisions would reduce potentially significant effects to a less-than-significant level." In this circumstance, the lead agency prepares a written statement describing its reasons for concluding that the project would not have a significant effect on the environment and, therefore, does not require the preparation of an Environmental Impact Report (EIR). By contrast, an EIR is required when the project may have a significant environmental impact that cannot clearly be reduced to a less-than-significant effect by adoption of mitigation or by revisions in the project design.

1.1 PROJECT HISTORY

A Draft IS/MND was prepared in 2016 for the project (Application 2014-021) and was posted on the City's website for public review and consideration. In December 2016, the Bridgeway Commons Residential Condominiums Project IS/MND and a *Notice of Intent to Adopt a Mitigated Negative Declaration* (NOI) were prepared. Pursuant to Sections 15072 and 15072 of the State CEQA Guidelines, the Draft IS/MND and NOI were distributed for a 30-day public review period from December 7, 2016 through January 9, 2017. A public meeting to summarize the findings of the Draft IS/MND was held at 6:30 p.m. on December 15, 2016 in the City of Sausalito Council Chambers at 420 Litho Street, Sausalito, California 94965.

Prio to adoption of the 2016 IS/MND and approval of 2016 project, the project applicant withdrew the Application 2014-021. In November 2018, the project applicant filed a new application for development on the same project site as the 2016 project (Application 2018-00413). Due to complications created by the COVID-19 pandemic, the project was placed on hold by the City and applicant until 2023. The project described in the Application 2018-00413 is the subject of this IS/proposed MND.

1.2 CALIFORNIA ENVIRONMENTAL QUALITY ACT COMPLIANCE

The City is the CEQA lead agency responsible for the review and approval of the project. Based on the findings of the IS for the project, the City has determined that an MND is the appropriate environmental document to prepare in compliance with CEQA (California Public Resources Code Section 21000 et seq.). As stated in CEQA Section 21064.5, an MND may be prepared for a project subject to CEQA when an IS has identified no potentially significant effects on the environment. This MND has been prepared for the City and complies with Section 15070(a) of the CEQA Guidelines (14 CCR 15000 et seq.). The purpose of the MND and the Initial Study Checklist (see Chapter 3 of this IS) is to determine any potentially significant impacts associated with the project and to incorporate mitigation measures, as necessary, to reduce or eliminate the significant or potentially significant effects of the project.

1.3 PUBLIC REVIEW PROCESS

A *Notice of Intent to Adopt a Mitigated Negative Declaration* (NOI) was mailed to the State Clearinghouse and affected responsible and trustee agencies and interested organizations and individuals, and it is on file at the Marin County Clerk's Office. A summary of the NOI was published in the Marin Independent Journal on March 15, 2025 to announce the public review period. The IS/Proposed MND and associated technical reports are available online at https://www.sausalito.gov/city-government/hot-topics/housing-element-update-2023-2031. Hard copies are available for public review during business hours at420 Litho Street, Sausalito. There will be a 30-day public review period for the IS/Proposed MND, meeting and exceeding the requirements of Section 15073 of the State CEQA Guidelines. In reviewing the IS/Proposed MND, the reviewer should focus on the sufficiency of the document in identifying and analyzing the potential impacts on the environment and ways in which the potentially significant effects of the project are avoided or lessened. Comments or questions on this IS/Proposed MND must be postmarked by 5:00 p.m. on April 14, 2025 and can be sent in writing to the address below. Please include "Bridgeway Commons Residential Condominiums Project" in the subject line.

Kristin Teiche, Principal Planner 420 Litho Street Sausalito, CA 94965

E-mail comments may be addressed to: kteiche@sausalito.gov

If you have questions regarding the IS/Proposed MND, please call Kristin Teiche at: (415) 289-4134. If you wish to send written comments (including via e-mail), they must be postmarked by April 14, 2025.

After comments are received from the public and reviewing agencies, the Planning Commission may (1) adopt the MND and approve the project; (2) undertake additional environmental studies; or (3) deny the project. If the project is approved and funded, the project proponent may proceed with the project.

1.4 DOCUMENT ORGANIZATION

This IS/Proposed MND is organized into the following chapters:

- ► Chapter 1, "Introduction," provides an introduction to the IS/Proposed MND and the environmental review process; and provides an outline of the IS/Proposed MND organization.
- ► Chapter 2, "Project Description," provides a detailed description of the project.
- Chapter 3, "Environmental Checklist," presents an analysis of a range of environmental issues identified in the CEQA Environmental Checklist and determines if project actions would result in no impact, a less-than-significant impact, a less-than-significant impact with mitigation incorporated, or a potentially significant impact. If any impacts were determined to be potentially significant, an EIR would be required. For this project, however, none of the impacts were determined to be significant after implementation of mitigation measures.
- Chapter 4, "References," lists the references used in preparation of this IS/Proposed MND.
- ► Chapter 5, "List of Preparers," identifies report preparers.

2 PROJECT DESCRIPTION

2.1 PROJECT LOCATION

The approximately 0.58-acre (25,264 square feet) project site is located at 1751-1757 Bridgeway Boulevard and 160 Filbert Avenue in the City of Sausalito, California (Figure 1). The project site consists of two parcels, Accessor's Parcel Numbers 064-151-02 and 064-151-03, and is located within the northwestern street block that is bounded by Bridgeway Boulevard to the northeast, Filbert Avenue to the southwest, Easterby Street to the northwest, and Napa Street to the southwest (Figure 2). Vehicular access to the project site is provided via Bridgeway Boulevard.

2.2 EXISTING SETTING

2.2.1 General Plan Designation

The project site is designated as High Density Residential in the 2021 City of Sausalito General Plan Land Use Element (City of Sausalito 2021). The High Density Residential designation envisions a mix of single-family residences, condominiums, or apartments. The maximum building density allowed under this designation is 29 dwelling units per acre (1 dwelling unit per 1,500 square feet). Based on the square footage of the lot, the maximum density allowed on the project site would be 16 units.

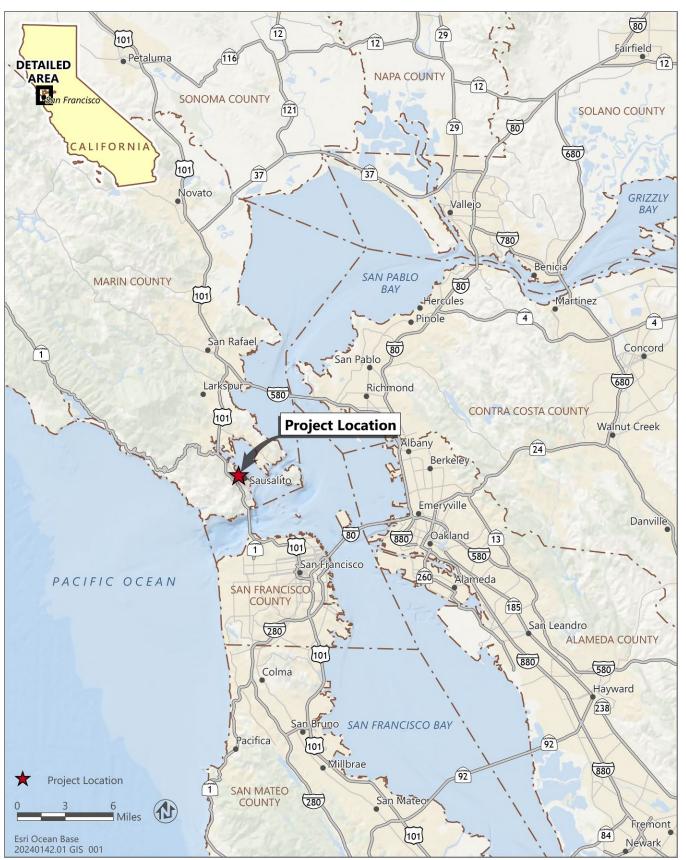
2.2.2 Zoning

The project site is in the Multiple Family Residential (R-3) zoning district. The R-3 zoning district has a maximum floor area ratio limit of 0.8. The height limit is 32 feet measured on an average of the highest and lowest points of contact with the natural grade of the site. No building shall exceed 50 feet when measured from roofline to the grade directly below it. In addition, building height within the first 15 feet from the front lot line is limited to 40 feet above street elevation when the lot runs uphill from the street, and 24 feet above street elevation when a lot runs downhill from the street.

2.2.3 Site Conditions and Surrounding Land Uses

The project site consists of four residential structures: 1745 Bridgeway (built in 1894), 1751 Bridgeway (built in 1917), 1757 Bridgeway (built in 1879), and 160 Filbert Avenue (built in 1909). The buildings were recommended not eligible for listing in the California Register of Historical Resources, and in October 2019 the City's Historic Preservation Commission concurred with this finding (City of Sausalito 2019). Additionally, in May 2015 the City's Historic Landmark Board concluded that none of the buildings were eligible for listing on the Sausalito Local Register (City of Sausalito 2015). The City's Historic Landmark Board also requested that documentation pursuant to the Historic American Building Survey guidelines be completed as a Condition of Approval for the project (City of Sausalito 2015). All of the existing buildings on the project site have been vacant for several years and are in a deteriorating condition.

The surrounding land uses on the southwest side of Bridgeway Boulevard include single-family and multi-family residences. The immediate neighborhood includes a mix of architectural styles, including older single-family homes dating from the late 19th and early 20th centuries and modern apartment buildings constructed in the 1950s and 1960s. Property on the Richardson's Bay side of Bridgeway Boulevard across from the project site is within the Industrial zone and within the Marinship Overlay district. The Industrial zone and Marinship Overlay district allow for a mixture of light-industrial, commercial and marine-related uses.



Source: Adapted by Ascent Environmental in 2024.

Figure 1 Regional Location



Source: Adapted by Ascent Environmental in 2024.

Figure 2 Aerial View of Project Site

2.3 DESCRIPTION OF PROJECT

The project would include removal of all trees on-site, demolition of the exiting residential structures, and construction of two separate four-level buildings. Each building would have three residential levels over a partially underground level for parking (Figure 3). Building 1 would front Bridgeway Boulevard with 13 residential units, and Building 2 would front Filbert Avenue with six residential units for a total of 19 units—three units more than the maximum number of units (16 units) allowed under existing General Plan land use designation.

The project would set aside 21 percent of the units for moderate-income households (i.e., 4 affordable housing units), which under California Density Bonus Law (Government Code Section 65915) allows for 3 bonus units in addition to the 16 base units allowed by current Geneal Plan land use designation. This equates to four affordable housing units and 15 market rate units.

Vehicular access to the property would be provided via a 24-foot-wide driveway on Bridgeway Boulevard that would provide right-turn ingress and right-turn egress to and from the ground floor parking area (Car Garden). Driveway and landscaping improvements are proposed within the public right-of-way along Bridgeway Boulevard. Although the project site also has frontage along Filbert Avenue, vehicle access is provided from Bridgeway Boulevard only. Two pedestrian stairways would be provided from Filbert Avenue.

The project would require relocation of a sewer line and connection to electricity infrastructure. Electricity service to the project site would be through either construction of a new pole or connection to the existing pole to the south of the site. If construction of a new pole is required to accommodate the project energy demand, this would be completed by PG&E. The new power pole, if required, would have a minimum height of 45 feet (39 feet above grade). The project would provide on-site drainage improvements, including construction of five bio-retention basins and storm drainpipes throughout the project site (Figure 4).

The project would feature all electric design. Mechanical equipment (e.g., heating, ventilation, and air conditioning systems) would be located on the roofs of each building, setback from the building edge, and include a physical barrier (Figure 5). The project would also include landscape and street improvements in the areas facing Bridgeway and Filbert Avenue (see Figure 5).

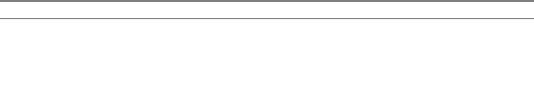
The project would provide 35 parking spaces through a mix of common parking garages, private garages, and atgrade parking spaces. A total of 24 long-term bicycle parking spaces would be included in the parking garages. The building height limit and floor area ratio in the R-3 zoning district are 32 feet and 0.8, respectively. The project would include maximum building heights of 38 feet 9 inches for Building 1 and 34 feet 11 inches for Building 2. The floor area ratio of the project is approximately 1.0. The project would use two density bonus concessions to request modification in development standard related to heigh and floor area ratio, as discussed below.

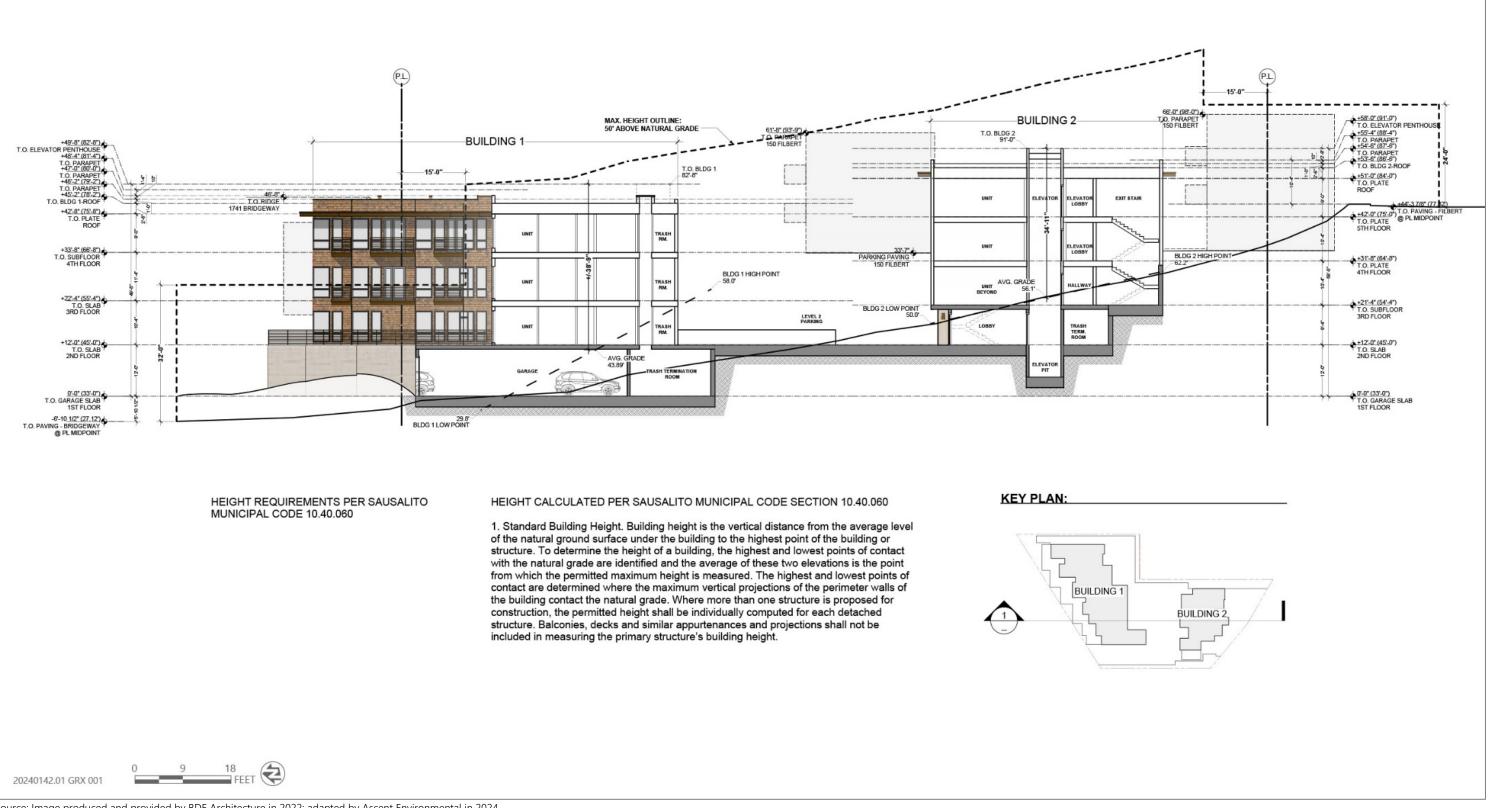
2.3.1 Request for Incentives and Concessions

After requested waivers/reductions have been granted to accommodate the density bonus units, the applicant may request concessions/incentives, or modified development standards consistent with Section 65915(k) of the Government Code. Per Government Code Section 65915(d)(1), the City shall grant a concession or incentive unless it is able to make the finding that "the concession or incentive does not result in identifiable and actual cost reductions" or "would have a specific, adverse impact... upon public health and safety or the physical environment." Projects are entitled to 1, 2, or 3 concessions/incentives, according to the criteria outlined in Section 65915(d)(2).

Under Government Code Section 65915(d)(2), because the project would provide more than 20 percent of the units for affordable households, the project is eligible for two incentives or concessions. Incentives and concessions may include a reduction in site development standards or a modification of zoning code requirements or architectural design requirements. Requested concessions of City development standards necessary to accommodate the density bonus include:

- ► Increase uphill height limit for Building 1 to 38 feet 9 inches and for Building 2 to 34 feet 11 inches from the maximum allowed 32 feet.
- ▶ Increase floor area ratio to 1.0 from the maximum allowed 0.8.

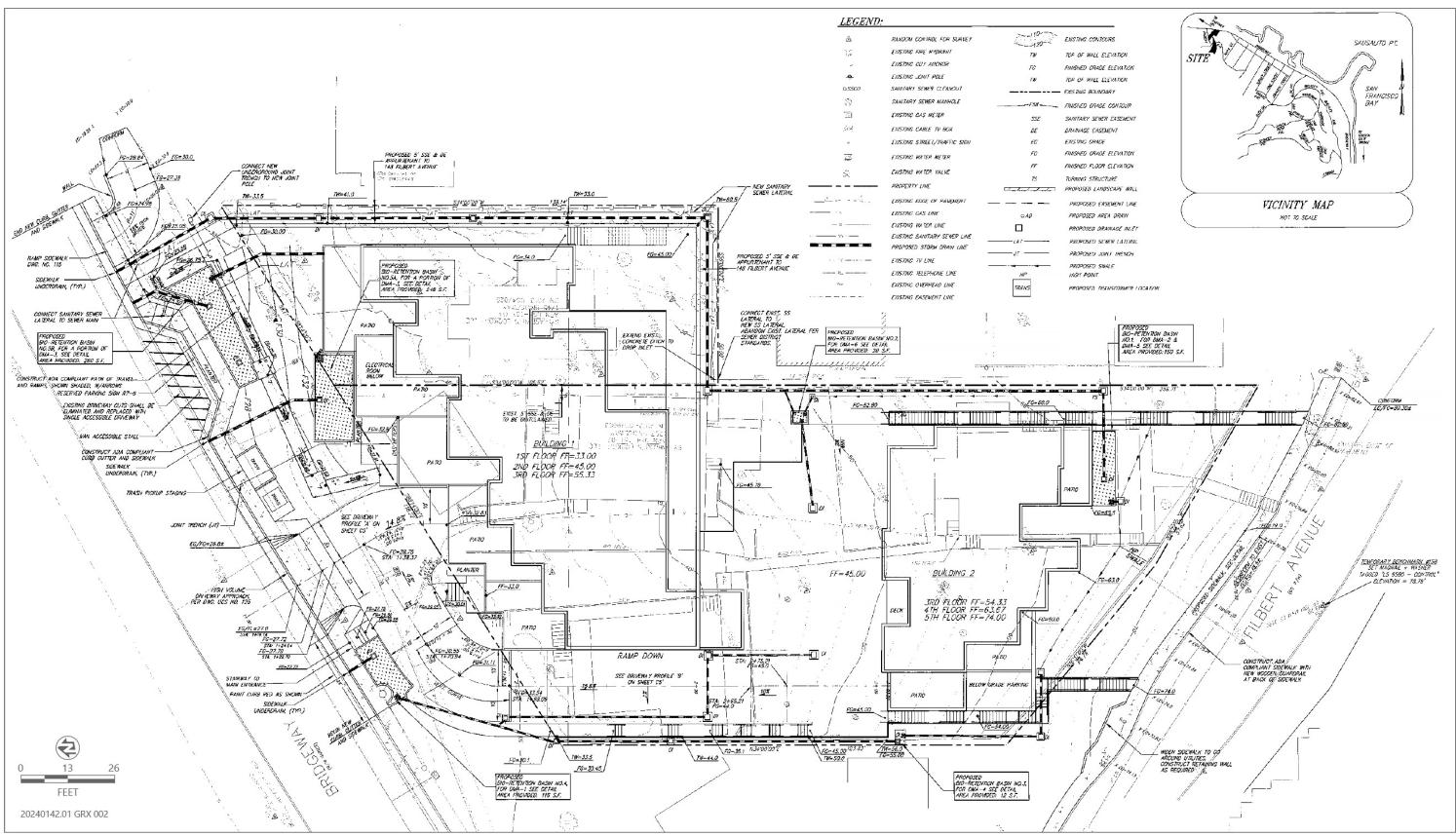




Source: Image produced and provided by BDE Architecture in 2022; adapted by Ascent Environmental in 2024.

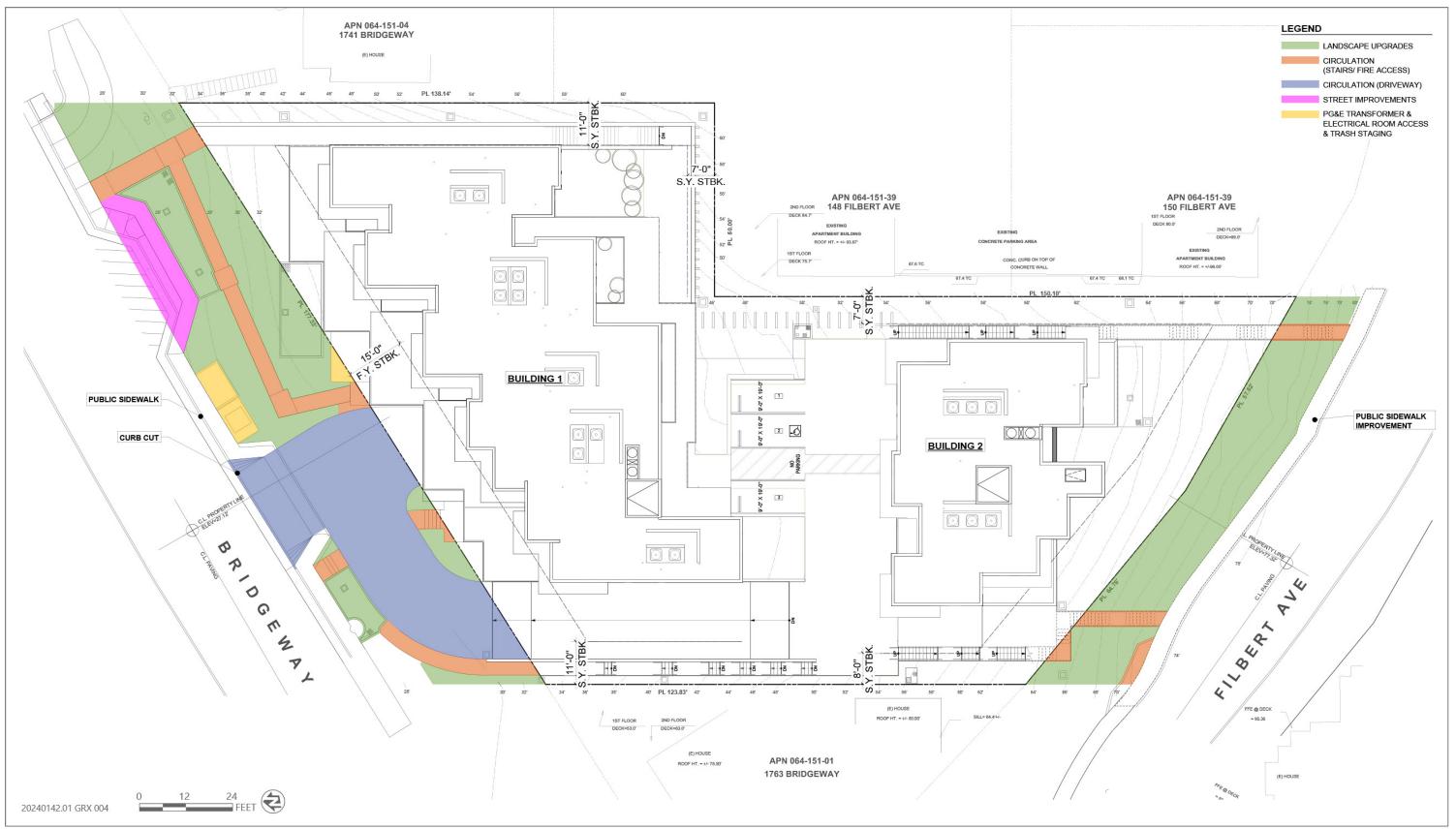
Figure 3 **Buildings Elevation**





Source: Image produced and provided by BDE Architecture in 2022; adapted by Ascent Environmental in 2024.

Figure 4 Grading and Drainage Plan



Source: Image produced and provided by BDE Architecture in 2022; adapted by Ascent Environmental in 2024.

Figure 5 Encroachment Plan

2.4 REQUIRED ACTIONS

The City of Sausalito Planning Commission is the lead agency. The Planning Commission will hold a public hearing to consider the adoption of the IS/MND and approval of the project.

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3 ENVIRONMENTAL CHECKLIST

3.1 PROJECT INFORMATION

1. Project Title:

Bridgeway Commons Residential Condominiums

- Lead Agency Name and Address: City of Sausalito 420 Litho Street, Sausalito, CA94965
- 3. Contact Person and Phone Number Kristin Teiche, Principal Planner 415.289.4134

4. Project Location:

1755 Bridgeway Sausalito, CA 94920 Assessor's Parcel Numbers 064-151-02 & -03

5. Project Sponsor's Name and Address:

Sy Jardin's Lookout LLC, Property Owner 2673 Martinez Drive, Burlingame, CA 94010

Miles Berger, Architect/Applicant 14 Raccoon Lane, Tiburon, CA 94920

6. General Plan Designation: High Density Residential

7. Zoning: R-3 Multiple Family Residential

8. Description of Project:

See Chapter 2, "Project Description," for detailed information.

- 9. Surrounding Land Uses and Setting: See Chapter 2, "Project Description," for detailed information.
- **10. Other public agencies whose approval is required:** Marin Municipal Water District (MMWD) and Southern Marin Fire Protection District (SMFPD)
- 11. Have California Native American tribes traditionally and culturally affiliated with the project area requested consultation pursuant to Public Resources Code section 21080.3.1? If so, is there a plan for consultation that includes, for example, the determination of significance of impacts to tribal cultural resources, procedures regarding confidentiality, etc.?

See Section 3.18, "Tribal Cultural Resources," for detailed information regarding tribal consultation.

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" as indicated by the checklist on the following pages. Where noted below with a "Y" for yes, the topic with a potentially significant impact will be addressed in an environmental impact report.

Ω Αε	esthetics	Hazards / Hazardous Materials		Transportation
🗆 Ag	griculture and Forest Resources	Hydrology / Water Quality		Tribal Cultural Resources
🗆 Aii	r Quality	Land Use / Planning		Utilities / Service Systems
🗆 Bio	ological Resources	Mineral Resources		Wildfire
🗆 Cu	ultural Resources	Noise		Mandatory Findings of
🗆 En	nergy	Population / Housing		Significance
🗆 Ge	eology / Soils	Public Services		None
🗆 Gr	reenhouse Gas Emissions	Recreation	\boxtimes	None with Mitigation Incorporated

DETERMINATION

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_____

Printed Name _____

Agency_____

Title _____

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 will not expose sensitive receptors to pollutants, based on a project-specific screening analysis).
- 2. All answers must take account of the whole action involved, including off-site as well as on-site, 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 a less than significant level (mitigation measures from "Earlier Analyses," as described in (5) below, may be cross-referenced).
- 5. Earlier analyses may be used where, pursuant to the tiering, program EIR, or other CEQA process, an effect has been adequately analyzed in an earlier EIR or negative declaration. Section 15063(c)(3)(D). In this case, a brief discussion should identify the following:
 - a) Earlier Analysis Used. Identify and state where they are 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 which 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.
- 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 significance.

3.2 AESTHETICS

	ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
	Aesthetics. Tept as provided in Public Resources Code section 21099 (nificant for qualifying residential, mixed-use residential, ar		•		
a)	Have a substantial adverse effect on a scenic vista?			\boxtimes	
b)	Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?				\boxtimes
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 points.) If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?				
d)	Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?		\boxtimes		

3.2.1 Environmental Setting

The City of Sausalito General Plan does not designate scenic vistas. Sausalito Municipal Code Section 11.12.020(V) defines "View" as a vista of San Francisco-Richardson Bay, neighboring communities, surrounding hills or a nearby or distant wooded area from the primary living areas of the home. "Views" include, but are not limited to, skylines, bridges, distant cities, geologic features, hillside terrains and wooded canyons or ridges. The term "view" does not mean an unobstructed panorama of all or any of the views defined in Section 11.12.020(V).

In addition, Section 10.88 of the Sausalito Municipal Code provides the following definitions related to views:

- "Views" any view of the Sausalito Waterfront, San Francisco Bay, Mt. Tam, Strawberry Point, Tiburon, Belvedere, Angel Island, East Bay, and/or the City of San Francisco or any view greater than 300 feet distance and/or including significant aesthetic, cultural, natural, or historical features. The term "view" does not mean an unobstructed panorama of all or any of the above.
- "View, primary" any view distance from primary viewing areas of a dwelling such as the living room, dining room, kitchen, master bedroom, and deck or patio spaces serving such living areas. A secondary view shall be any view from bathrooms, accessory bedrooms, passageways and utility areas.
- "View, public" any view from a public right-of-way, including from a public road, street, sidewalk, pedestrian lane or stair, trail, or pathway.
- "View, shed" the area within view from a defined observation point.

The project site is located at 1751-1757 Bridgeway and 160 Filbert Avenue in the City of Sausalito, California. The project site is located within the northwestern street block that is bounded by Bridgeway to the northeast, Filbert Avenue to the southwest, Easterby Street to the northwest, and Napa Street to the southwest. The site consists of four residential structures that have been vacant for several years and are in a deteriorated condition. Surrounding

land uses on the southwest side of Bridgeway include single-family and multi-family residences. The immediate neighborhood includes a mix of architectural styles, including older single-family homes dating from the late 19th and early 20th centuries and modern apartment buildings constructed in the 1950s and 1960s. Properties on the northeast side of Bridgeway across from the project site are within the Industrial zone and the Marinship Overlay district, which allow for a mixture of light-industrial, commercial and marine-related uses.

No officially designated state scenic highway is located in the vicinity of the project site. The nearest officially designated state scenic highway to the project site is a segment of Interstate 580, which is located approximately 10 miles southeast of the project site. The nearest eligible state scenic highway is Highway 101, which runs through the city and is located approximately 0.4 mile southwest of the project site (Caltrans 2024).

The project vicinity includes levels of lighting that are characteristic of an urban environment. Existing light sources in the project vicinity include the interior and exterior lighting from buildings and residences near the project site as well as lighting from nearby streetlights, traffic lights, and vehicle headlights.

3.2.2 Discussion

a) Have a substantial adverse effect on a scenic vista?

Less-than-significant impact. Scenic vistas generally refer to views of expansive open space areas or other natural features, such as mountains, undeveloped hillsides, large natural water bodies, or coastlines. Although the City of Sausalito General Plan does not designate scenic vista, the Sausalito Municipal Code defines a "View" as a vista of San Francisco-Richardson Bay, neighborhood communities, surrounding hills or a nearby or distance wooded area from the primary living areas of the home. The Sausalito Municipal Code defines views as "any view of the Sausalito Waterfront, San Francisco Bay, Mount Tamalpais, Strawberry Point, Tiburon, Belvedere, Angel Island, East Bay, and/or the City of San Francisco or any view greater than 300 feet distance and/or including significant aesthetic, cultural, natural, or historical features." The project site is located at the bottom of a hill overlooking San Francisco-Richardson Bay and the Sausalito Waterfront. The project would result in adverse effects on a scenic vista if it would substantially and adversely affect existing views that are defined by the Sausalito Municipal Code.

The project would replace the existing vacant and deteriorated residential buildings with two new residential buildings. If required, a new power pole would be constructed in front of the project site on Bridgeway with a minimum height of 39 feet above grade. The project applicant has requested a concession of City development standard for building height to accommodate the density bonus. As a result, the project would result in building heights of 38 feet 9 inches (Building 1) and 34 feet 11 inches (Building 2), which would exceed the maximum allowed 32 feet. The sloped elevation of Filbert Avenue varies from 74 feet to 82 feet. The first floors of the residences on Filbert Avenue adjacent to the project site are at elevations of 93 feet, 102 feet, and 102 feet (Miles Berger 2015). The top of the proposed Building 2 (the tallest point of the proposed development including the proposed mechanical equipment and elevator) would be at an elevation of 91 feet (Figure 3), which would be below the lowest floor elevation of the homes along Filbert Avenue. Therefore, although the new buildings would exceed the allowable height limit, the new buildings would not block views to San Francisco-Richardson Bay and the Sausalito Waterfront from Filbert Avenue and the residences above the project site. Bridgeway Boulevard is located between the project site and the San Francisco-Richardson Bay and the Sausalito Waterfront. The project site is to the southwest of the Bridgeway Boulevard while the San Francisco-Richardson Bay and the Sausalito Waterfront are to the northeast. The project would not block the view of the San Francisco-Richardson Bay and the Sausalito Waterfront from Bridgeway Boulevard. The power pole, if required, would also be below the lowest floor elevation of the homes along Filbert Avenue and would not obstruct views of the waterfront. In addition, the project would be required to comply with the City of Sausalito General Plan policies related to maintaining and enhancing views of the scenic resources within the city. For example, Policy CD-3.2 (Public Views) requires that new and significantly remodeled structures and other private and public improvements be located and designed with consideration for their impact on significant public views and view corridors. Program CD-3.2.1 (Design Review of Public View Impacts) requires the City to analyze

project submittals for new and significantly remodeled structures and landscaping for their impact on views from major public vantage points through the design review process.

Furthermore, the Sausalito Municipal Code contains rules and regulations to maintain the natural environment, as well as development and design standards to ensure that new development is consistent and compatible with the established character and preserves views. The project would undergo the design review process as detailed in Chapter 10.54 of the Sausalito Municipal Code. Project impacts would be evaluated by City Planning staff and reviewed by the Planning Commission as part of the application review process. Under Section 10.54.050 of the Sausalito Municipal Code, for the Planning Commission to approve a Design Review Permit, the Planning Commission must make a finding that the obstruction of public views and primary views from private property has been minimized. In addition, the tallest point of the proposed development and potential power pole would be below the lowest floor elevation of the homes along Filbert Avenue. Therefore, the proposed development would not obstruct views from Filbert Avenue and the residences above the project site. Compliance with existing regulations would ensure that impacts associated with scenic vista would be less than significant, and no mitigation is required.

b) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?

No impact. The project site is approximately 0.4 mile northeast of Highway 101, the nearest eligible state scenic highway, and approximately 10 miles northwest of Interstate 580, the nearest officially designated state scenic highway (Caltrans 2024). The project site is not within the viewshed of Interstate 580 due to the distance of the site from the interstate as well as the intervening topography and urban development in the project vicinity. Although the project site is located 0.4 mile from Highway 101, the project site is not visible from this highway due to the topography and urban development surrounding the site. All project development would occur within the project site and would not encroach onto a state scenic highway or damage scenic resources. Therefore, the project would not damage scenic resources within a state scenic highway. No impact would occur, and no mitigation is required.

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 points.) 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 within an urbanized area in the City of Sausalito. The project would replace the existing vacant and deteriorated residential buildings with two new buildings. As discussed in Section 2.3, the project applicant has requested two concessions (increase height limit and floor area ratio) to modify development standards consistent with Government Code Section 65915(d)(2). The project would be consistent with the City's development standards with approval of the requested concessions.

As discussed in Impact a), implementation of the project would comply with City of Sausalito General Plan policies and Sausalito Municipal Code related to scenic resources protection. In addition, the City Planning Commission would review and approve project plans prior to construction to ensure that the project complies with City standards governing scenic quality, including standards related to design, landscaping, and lighting. Therefore, the project would not conflict with applicable zoning and other regulations governing scenic quality. The impact would be less than significant, and no mitigation is required.

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

Less than significant with mitigation incorporated. The project site is in a lit area, characteristic of a typical urban environment. Existing light sources within the project vicinity include streetlights along roadways, interior and exterior lights on nearby residential and commercial buildings, and surface parking lot lighting. Existing sources of glare include the windows of neighboring residential and commercial buildings and vehicles in the project vicinity.

Under Subsection 12.16.140 of the Sausalito Municipal Code, construction activities would be limited to the hours of 8:00 a.m. and 6:00 p.m. on weekdays and 9:00 a.m. and 5:00 p.m. on Saturdays. Thus, no construction would occur at nighttime, Sundays, or officially recognized holidays, and artificial light sources would not be required during construction activities. Temporary fencing would be installed around the construction site, which would obscure views of construction activities at ground level and reduce the amount of daytime glare reflected onto adjacent land uses from construction equipment and vehicles. Therefore, construction activities would not create new sources of light or glare that would adversely affect views in the surrounding area.

The project would be required to comply with the California Building Code (CBC) Title 24, which requires external building surfaces to be non-reflective to reduce glare. Exterior lighting would be provided on the proposed residential structures for security, vehicular access, egress, landscape accents, and building exterior illumination during operation. The project would be required to comply with the maximum requirements for outdoor lighting power allowances and mandatory lighting controls specified in the California Energy Code and California Green Building Standards Code (CALGreen). However, exterior lighting would have the potential to result in adverse effects to nighttime views in the area if not installed appropriately. This would be a potentially significant impact.

Mitigation Measure AES-1: Exterior Lighting Control

All exterior lighting shall be designed downward facing and shielded, and subject to review and approval by the City of Sausalito Building Department.

Significance after Mitigation

Implementation of Mitigation Measure AES-1 would ensure that all exterior lighting would be installed downward facing and shielded to minimize visual impacts related to nighttime view and would minimize visual impacts to adjacent properties and the general public. The impact would be less than significant with mitigation incorporated.

3.3 AGRICULTURE AND FOREST RESOURCES

ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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II. Agriculture and Forest Resources.

In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997, as updated) prepared by the California Department of Conservation as an optional model to use in assessing impacts on agriculture and farmland.

In determining whether impacts to forest resources, including timberland, are significant environmental effects, lead agencies may refer to information compiled by the California Department of Forestry and Fire Protection regarding the state's inventory of forest land, including the Forest and Range Assessment Project and the Forest Legacy Assessment project; and forest carbon measurement methodology provided in Forest Protocols adopted by the California Air Resources Board. Would the project:

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?		
b)	Conflict with existing zoning for agricultural use or a Williamson Act contract?		\boxtimes
C)	Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(g))?		
d)	Result in the loss of forest land or conversion of forest land to non-forest use?		\boxtimes
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?		

3.3.1 Environmental Setting

The project site is categorized as urban and built-up land by the California Department of Conservation's Farmland Mapping and Monitoring Program (DOC 2024a). The project site does not contain any land designated as Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Important Farmland). The project site is in an urban area surrounded by development and no agricultural land uses or operations are located on or adjacent to the project site. Also, no portion of the project site or adjacent parcels are held under Williamson Act contracts (DOC 2024b).

The project site is designated High Density Residential in the City's General Plan and is zoned as Multiple Family Residential (R-3) (City of Sausalito 2021; Marin County 2024). There are no areas either within or adjacent to the project site that are zoned for agricultural use, forest land, or timberland production (City of Sausalito 2003).

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?

No impact. No agricultural resources or operations are present within the project site or on adjacent parcels. The project site is mapped as urban and built-up land and does not contain any land designated as Important Farmland (DOC 2024a). Therefore, the project would not convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance to non-agricultural use. No impact would occur, and no mitigation is required.

b) Conflict with existing zoning for agricultural use or a Williamson Act contract?

No impact. The project site is zoned as Multiple Family Residential (R-3) and is not zoned for agricultural uses (Marin County 2024). In addition, no portion of the project site or adjacent parcels are held under Williamson Act contracts (DOC 2024b). Therefore, the project would not conflict with existing agricultural zoning or a Williamson Act contract. No impact would occur, and no mitigation is required.

c) Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(g))?

No impact. The project site is zoned as Multiple Family Residential (R-3) and is not zoned for forestland, timberland, or Timberland Production (Marin County 2024). The project site is in an urban area surrounded by development and no forest land or timberland resources are present on the project site or adjacent parcels. Therefore, the project would not conflict with existing zoning for, or cause rezoning of, forest land, timberland, or timberland zoned Timberland Production. No impact would occur, and no mitigation is required.

d) Result in the loss of forest land or conversion of forest land to non-forest use?

No impact. The project site is in an urban area surrounded by development and no forest land or timberland resources are present on the project site or adjacent parcels. Therefore, the project would not result in the loss of forest land or conversion of forest land to non-forest use. No impact would occur, and no mitigation is required.

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?

No impact. As discussed above, no agricultural, forest, or timberland resources are present on the project site or adjacent parcels. Therefore, the project would not result in changes in the existing environment that could result in the conversion of Important Farmland to non-agricultural use or conversion of forest land to non-forest use. No impact would occur, and no mitigation is required.

3.4 AIR QUALITY

	ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Wł pol	Air Quality. here available, the significance criteria established by the a lution control district may be relied on to make the follow ablished by the applicable air district available to rely on f	ving determir	nations. Are sign	ificance criteri	ia
a)	Conflict with or obstruct implementation of the applicable air quality plan?		\boxtimes		
b)	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?				
C)	Expose sensitive receptors to substantial pollutant concentrations?			\boxtimes	
d)	Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?			\boxtimes	

3.4.1 Environmental Setting

This section addresses the types and quantities of air pollutant emissions that would be generated by the construction and operation of the project and the regulatory context.

CRITERIA POLLUTANTS

The pollutants emitted into the ambient air by stationary and mobile sources are regulated by the federal Clean Air Act and California Clean Air Act. Air pollutants are categorized as primary and/or secondary pollutants. Primary air pollutants are those that are emitted directly from sources. Carbon monoxide (CO), reactive organic gases (ROG), nitrogen oxides (NO_X), sulfur dioxide (SO₂), respirable particular matter with an aerodynamic resistance diameter of 10 micrometers or less (PM₁₀), fine particulate matter with an aerodynamic resistance diameter of 2.5 micrometers or less (PM_{2.5}), and lead (Pb) are primary air pollutants. Of these, all except for ROGs are "criteria air pollutants," which means that ambient air quality standards have been established for them. The national ambient air quality standards (NAAQS) and California ambient air quality standards (CAAQS) are the levels of air quality considered to provide a margin of safety in the protection of the public health and welfare. They are designed to protect those "sensitive receptors" most susceptible to further respiratory distress, such as asthmatics, the elderly, very young children, people already weakened by other disease or illness, and persons engaged in strenuous work or exercise. Healthy adults can tolerate occasional exposure to air pollutant concentrations considerably above these minimum standards before adverse effects are observed.

On April 19, 2017, the Bay Area Air Quality Management District (BAAQMD) adopted the updated 2017 Clean Air Plan: Spare the Air, Cool the Climate (2017 Clean Air Plan). Like the 2010 Clean Air Plan, the 2017 Clean Air Plan provides a regional strategy to protect public health and protect the climate. The 2017 Clean Air Plan updates the most recent Bay Area ozone plan, the 2010 Clean Air Plan, pursuant to air quality planning requirements defined in the California Health & Safety Code. To fulfill state ozone planning requirements, the 2017 control strategy (enumerated in the 2017 Clean Air Plan) includes all feasible measures to reduce emissions of ozone precursors—ROG and NO_x—and reduce transport of ozone and its precursors to neighboring air basins. In addition, the 2017 Clean Air Plan builds on the BAAQMD's efforts to reduce emissions of fine particulate matter and toxic air contaminants (TACs).

TOXIC AIR CONTAMINANTS

In addition to criteria air pollutants, both the State and federal government regulate the release of TACs. The California Health and Safety Code define a TAC as "an air pollutant which may cause or contribute to an increase in mortality or in serious illness, or which may pose a present or potential hazard to human health." A substance that is listed as a hazardous air pollutant pursuant to Section 112(b) of the Federal Clean Air Act (42 United States Code §7412[b]) is a TAC. Under State law, the California Environmental Protection Agency (Cal EPA), acting through the California Air Resources Board (CARB), is authorized to identify a substance as a TAC if it determines that the substance is an air pollutant that may cause or contribute to an increase in mortality or serious illness, or may pose a present or potential hazard to human health.

Where available, the significance criteria established by BAAQMD may be relied upon to make the following CEQA determinations.

AIR QUALITY PLANNING

BAAQMD is responsible for assuring that the NAAQS and CAAQS are attained and maintained in the San Francisco Bay Aare Air Basin. BAAQMD is also responsible for adopting and enforcing rules and regulations concerning air pollutant sources, issuing permits for stationary sources of air pollutants, inspecting stationary sources of air pollutants, responding to citizen complaints, monitoring ambient air quality and meteorological conditions, awarding grants to reduce motor vehicle emissions, conducting public education campaigns, as well as many other activities.

BAAQMD's 2022 CEQA Air Quality Guidelines (BAAQMD CEQA Guidelines) includes preliminary screening criteria that provide a conservative indication of whether implementing a proposed project could potentially result in the generation of construction-related criteria air pollutants or precursors that exceed the thresholds of significance. If all the following screening criteria are met, the construction of a proposed project would result in a less-than-significant impact related to criteria air pollutants and precursors (BAAQMD 2022):

- The project size is at or below the applicable screening level size shown in Table 4-1 of the BAAQMD CEQA Guidelines.
- All best management practices (see Table 5-2 in Chapter 5, "Project-Level Air Quality Impacts," of the BAAQMD CEQA Guidelines) are included in the project design and implemented during construction.
- ► Construction-related activities would not overlap with operational activities.
- Construction-related activities would not include:
 - demolition,
 - simultaneous occurrence of two or more construction phases (e.g., paving and building construction would occur simultaneously),
 - extensive site preparation (e.g., grading, cut and fill, or earth movement),
 - extensive material transport (e.g., soil import and export requiring a considerable amount of haul truck activity), and
 - stationary sources (e.g., backup generators) subject to air district rules and regulations.

The BAAQMD CEQA Guidelines include screening criteria to determine if a project requires further analysis of potential impacts related to operational criteria pollutants. According to the BAAQMD CEQA Guidelines, if all the following screening criteria are met, the operation of the proposed project would result in a less-than-significant impact related to criteria air pollutants and precursors (BAAQMD 2022):

The project size is at or below the applicable operational screening level size shown in Table 4-1 of the BAAQMD CEQA Guidelines.

- Operational activities would not include stationary engines (e.g., backup generators) and industrial sources subject to Air District rules and regulations.
- Operational activities would not overlap with construction-related activities.

3.4.2 Discussion

a) Conflict with or obstruct implementation of the applicable air quality plan?

Less-than-significant with mitigation incorporated. Large projects that exceed regional employment, population, and housing planning projections have the potential to be inconsistent with the regional inventory compiled as part of BAAQMD's 2017 Clean Air Plan. Projects that involve major new transit lines, highway expansions, large-scale roadway improvements, and land use development that could significantly affect transportation patterns within the region would require an Intergovernmental Review by Metropolitan Transportation Commission (MTC). The project would result in the development of 19 residential units on-site and would not involve major roadway improvements. As discussed in Section 3.18, "Transportation," the project would not exceed the vehicle miles traveled (VMT) threshold of significancy. Therefore, the project is not considered a regionally significant project that would affect regional VMT and warrant Intergovernmental Review by MTC pursuant to the State CEQA Guidelines Section 15206. In addition, the project would result in the construction of a total of 19 residential units in the R-3 zoning district, as three more units are allowed under California's Density Bonus Law (Government Code Section 65915) in addition to the 16 project units allowed under current zoning on the site. The project site has been identified as an inventory site for development of 19 units under the 2023-2031 Housing Element. Therefore, the project would be consistent with the land use and density policies contained in the City of Sausalito General Plan. The project would not exceed the level of population or housing foreseen in City or regional planning efforts and, therefore, would not have the potential to substantially affect housing, employment, and population projections within the region, which is the basis of the 2017 Clean Air Plan projections. However, as detailed in under impact (b) below, fugitive dust emissions from construction activities would have the potential to exceed BAAQMD thresholds, resulting in a potentially significant impact. Therefore, Mitigation Measure AQ-1 would be required. Mitigation Measure AQ-1 requires that the project's construction contractor comply with BAAQMD Best Management Practices (BMPs) for reducing construction emissions of PM₁₀ and PM_{2.5}. The implementation of Mitigation Measure AQ-1 would be effective in reducing construction-related fugitive dust emissions below BAAQMD thresholds. These thresholds are established to identify projects that have the potential to generate a substantial amount of criteria air pollutants. Because the project would not exceed these thresholds with implementation of mitigation, the project would not be considered by the BAAQMD to be a substantial emitter of criteria air pollutants. The impact would be less than significant with mitigation incorporated.

b) 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 with mitigation incorporated. BAAQMD has identified thresholds of significance for criteria pollutant emissions and criteria air pollutant precursors, including average daily emissions of ROG, NO_X, PM₁₀, and PM_{2.5}. With respect to construction emissions, BAAQMD has established numerical thresholds for PM₁₀ and PM_{2.5} exhaust. Development projects below the significance thresholds are not expected to generate sufficient criteria pollutant emissions to violate any air quality standard or contribute substantially to an existing or projected air quality violation.

Construction Emissions

Construction activities would involve the use of equipment that would result in emissions of NO_x, exhaust PM₁₀ and PM_{2.5}, and ROG due to the combustion of fossil fuels, such as the operation of on-site heavy-duty construction vehicles, hauling trips bringing materials to and from the site, and use of on-road motor vehicles transporting the construction crew. Site preparation activities would produce fugitive dust emissions (PM₁₀ and PM_{2.5}) from demolition and soil-disturbing activities, such as grading and excavation. ROG emissions would also be generated from the application of architectural coatings. Air pollutant emissions from construction activities would vary daily as

construction activity levels change. Construction of the project would last for 24 to 30 months. As a conservative estimation, this analysis assumes that construction would last for 24 months, which would result in a higher emission concentration per day compared to a 30-month construction period.

The project would involve demolition of all existing on-site structures. According to BAAQMD's screening criteria for project-related construction emissions, a project which includes a demolition phase as part of its construction has the potential to result in significant impacts related to criteria air pollutants and precursors and thus requires a more detailed analysis of the project's construction-generated emissions. Therefore, criteria pollutants emissions related to construction of the project were estimated and compared to BAAQMD's numerical criteria pollutant thresholds. A summary of the estimated construction-related emissions and BAAQMD's numerical thresholds for construction emissions are provided in Table 3.3-1 below.

Construction Phase	ROG (lb/day)	NO _x (lb/day)	CO (lb/day)	PM ₁₀ Exhaust (lb/day)	PM2.5 Exhaust (lb/day)
2025	<1	4	5	<1	<1
2026	1	3	5	<1	<1
Maximum	1	4	5	<1	<1
BAAQMD Construction Threshold	54	54	N/A	82	54
Exceeds Threshold?	No	No	-	No	No

Table 3.3-1	Average Daily Construction Emissions Summary
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Notes: ROG = reactive organic compounds; $NO_x = oxides of nitrogen$; CO = carbon monoxide; $PM_{10} = respirable particulate matter$; $PM_{2.5} = fine particulate matter$; Ib/day = pounds per day. See Appendix B for detailed input parameters and modeling results.

Source: Modeling performed by Ascent Environmental in 2024.

As shown in Table 3.3-1 above, project construction activities would not result in criteria pollutant emissions exceeding BAAQMD's construction thresholds. Ground disturbing activities could generate fugitive dust. Fugitive dust emissions are considered to be significant unless the project implements the BAAQMD's BMPs for fugitive dust control during construction. PM₁₀ is typically the most significant source of air pollution from the dust generated from construction. The amount of dust generated during construction would be highly variable and is dependent on the amount of material being demolished, type of material, moisture content, and meteorological conditions. If uncontrolled, levels of fugitive dust emissions of PM₁₀ and PM_{2.5} could possibly exceed state standards. Consequently, because the project does not include provisions to implement BAAQMD's BMPs as a component of the project's design, construction-related criteria pollutant emissions are potentially significant. Particulate matter levels downwind of disturbed areas during project construction activities could possibly exceed state standards. This would be a potentially significant impact associated with construction-related criteria pollutant emissions.

Mitigation Measure AQ-1: Implement Bay Area Air Quality Management District Best Management Practices

The project's construction contractor shall comply with the following BAAQMD Best Management Practices for reducing construction emissions of PM₁₀ and PM_{2.5}:

- a. Water all active construction areas at least twice daily, or as often as needed to control dust emissions. Watering should be sufficient to prevent airborne dust from leaving the site. Increased watering frequency may be necessary whenever wind speeds exceed 15 miles per hour (mph). Reclaimed water should be used whenever possible.
- b. Pave, apply water twice daily or as often as necessary to control dust, or apply (non-toxic) soil stabilizers on all unpaved access roads, parking areas, and staging areas at construction sites.
- c. Cover all trucks hauling soil, sand, and other loose materials or require all trucks to maintain at least two feet of freeboard (i.e. the minimum required space between the top of the load and the top of the trailer).
- d. Sweep daily (with water sweepers using reclaimed water if possible), or as often as needed, all paved access roads, parking areas and staging areas at the construction site to control dust.

- e. Sweep public streets daily (with water sweepers using reclaimed water if possible) in the vicinity of the Project site, or as often as needed, to keep streets free of visible soil material.
- f. Hydroseed or apply non-toxic soil stabilizers to inactive construction areas.
- g. Enclose, cover, water twice daily, or apply non-toxic soil binders to exposed stockpiles (dirt, sand, etc.).
- h. Limit vehicle traffic speeds on unpaved roads to 15 mph.
- i. Replant vegetation in disturbed areas as quickly as possible.
- j. Install sandbags or other erosion control measures to prevent silt runoff from public roadways.

Significance after Mitigation

Mitigation Measure AQ-1 requires implementation of BAAQMD's BMPs, including watering exposed surfaces, covering trucks hauling loose materials, sweeping streets with water sweepers, and limiting vehicle traffic speeds. Implementation of Mitigation Measure AQ-1 would further reduce the fugitive dust emissions (e.g., PM_{2.5} and PM₁₀) identified in Table 3.3-1. As required by the BAAQMD CEQA Guidelines, a project must implement all BAAQMD's BMPs to have a less-than-significant criteria air pollutant impact related to construction-related fugitive dust emission. Therefore, implementation of Mitigation Measures AQ-1 would reduce this potentially significant impact related to construction emissions to a less-than-significant level by requiring compliance with the BAAQMD's BMPs for reducing construction emissions of PM₁₀ and PM_{2.5}.

Operational Emissions

Long-term air pollution impacts are not expected as a result of the proposed 19-unit development, consistent with the use envisioned in the City of Sausalito General Plan, but result in 3 units more than what is allowed under existing zoning. The project would increase the density of development on the project site through California's Density Bonus Law (Government Code Section 65915) as discussed in Section 2.3, "Description of Project." As stated above, the BAAQMD CEQA Guidelines states that if all project-level operational screening criteria are met, the operation of the proposed project would result in a less-than-significant impact related to criteria air pollutants and precursors. The project would include 19 residential units, which would be below the applicable operational screening level size shown in Table 4-1 of the BAAQMD CEQA Guidelines (the operational screening threshold in Table 4-1 of the BAAQMD CEQA Guidelines for the "apartment" land use type is 638 dwelling units). The project proposes a 19-unit multifamily housing land use and would therefore not include stationary engines (e.g., backup generators) or any industrial sources subject to BAAQMD rules and regulations. Lastly, the project's operational activities would not overlap with construction-related activities, as operational activities would commence following the cessation of the construction phase. Because the project fulfills the screening criteria requirements set forth in the BAAQMD CEQA Guidelines, project-related operational impacts would be less than significant.

Summary

The project proposes a use and density that are consistent with the City of Sausalito General Plan and meets all screening criteria for operational criteria pollutant emissions outlined in the BAAQMD CEQA Guidelines, and, with implementation of Mitigation Measure AQ-1, the project would not result in substantial net increases of any criteria pollutant. Impacts would be less than significant with mitigation incorporated.

c) Expose sensitive receptors to substantial pollutant concentrations?

Less-than-significant impact. The following discussion addresses the impacts related to pollutant concentrations.

Toxic Air Contaminants

Sensitive receptors are facilities or land uses that include members of the population, which are particularly sensitive to the effects of air pollutants, such as children, the elderly, and persons with illnesses. The closest sensitive receptors are the residences immediately adjacent to the project site as well as a church approximately 200 feet southeast of the project site. In addition, the project site is located within an existing residential neighborhood that likely contains children and the elderly.

Diesel PM is the focus of the TAC analysis. Although other TACs exist (e.g., benzene, 1,3-butadiene, hexavalent chromium, formaldehyde, methylene chloride), they are primarily associated with industrial operations and the project would not include any industrial sources. TACs from diesel PM are of particular importance because the potential cancer risk from inhalation of diesel PM outweighs the risk for all other health impacts (i.e., noncancer chronic risk, short-term acute risk) and health impacts from other TACs (OEHHA 2003).

Construction

Construction-related activities would result in temporary, intermittent emissions of diesel PM from the exhaust of offroad, heavy-duty diesel equipment used for site preparation (e.g., demolition, clearing, grading); paving; on-road truck travel; and other miscellaneous activities. On-road diesel-powered haul trucks traveling to and from the construction areas to deliver materials and equipment are less of a concern because they would not stay on the site for long periods of time.

With regards to exposure of diesel PM, the dose to which receptors are exposed is the primary factor used to determine health risk. Dose is a function of the concentration of a substance or substances in the environment and the duration of exposure to the substance. Dose is positively correlated with time, meaning that a longer exposure period would result in a higher level of health risk for any exposed receptor. Thus, the risks estimated for an exposed individual are higher if a fixed exposure occurs over a longer period. According to guidance from the California Office of Environmental Health Hazard Assessment's *The Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments*, a 30-year exposure duration is used for estimating cancer risk at residential land uses (OEHHA 2015).

Residential receptors are typically of primary concern when discussing TAC exposure, as they would generally be exposed to project-generated TACs for extended periods of time. As stated above, the nearest sensitive receptors are existing residential units surrounding the project site as well as a church 200 feet southeast of the project site. Construction would occur intermittently over an approximately 24- to 30-month period and construction activities would not be unusually intense relative to similarly sized multi-family land use projects. In addition, the use of diesel equipment would primarily occur during demolition, clearing, and grading activities not throughout the entire construction period. Thus, given the temporary and intermittent nature (compared to a 30-year exposure duration) of construction activities within the project area and the expected low intensity of construction activities due to the land use type and size, the dose of diesel PM of any one receptor would be limited.

Operations

As described in further detail below, the project would result in an increase in vehicle trips compared to existing conditions. Compared to the existing conditions, there would be an increase in vehicle trips and associated TAC emissions, but these trips would be dispersed throughout the project site and public roadways. Emissions would be generated by vehicle trips within the region with only a small portion of these trips occurring within the project area near sensitive receptors. As a result, the actual concentration near sensitive land uses associated with implementation of the project would be minimal, and implementation of the project would not result in exposure of new or existing sensitive receptors to TACs from regular and frequent vehicle trips.

Considering the highly dispersive properties of mobile-source TACs (i.e., diesel PM) and the relatively low dose of diesel PM emissions that would be generated at any single place during the operation of the project, operations-related TACs are not anticipated to result in the exposure of sensitive receptors to substantial pollutant concentrations.

Carbon Monoxide Hotspots

BAAQMD offers guidance regarding mobile source CO impacts. BAAQMD's CEQA Guidelines provides preliminary screening criteria to aid lead agencies in assessing whether implementing a project could result in CO emissions that exceed the thresholds of significance. BAAQMD's CEQA Guidelines' screening threshold states that project-generated traffic that would increase traffic volumes at affected intersections to more than 44,000 vehicles per hour would potentially result in a CO impact and would therefore require further analysis. The implementation of the project would introduce new vehicle trips to the project site. Based on the results of the circulation study conducted for the

project (Parametrix 2024), the project would result in approximately 128 new trips per weekday. Specifically, the circulation study showed that the project would result in approximately 8 AM peak-hour trips and approximately 10 PM peak-hour trips. There are approximately 39,000 average traffic trips per weekday and 2,900 PM peak-hour trips in the city (Parisi Transportation Consulting and M-Group 2020). Therefore, the number of vehicles traveling through intersections in the city at any given time would be less than 44,000 vehicles per hour. An addition of 128 vehicle trips per weekday as a result of the project would not result in more than 44,000 vehicles per hour traveling through intersections given the PM peak-hour traffic volume in the city is approximately 2,900 trips. Therefore, the number of vehicles traveling through intersections at any given time would be far fewer than 44,000 vehicles per hour. A CO hotspot would not result from project implementation. Moreover, CO emissions have historically decreased due to the advent of catalytic converters and progressively more stringent fuel economy standards.

Summary

Considering the relatively low levels of diesel PM emissions that would be generated by construction due to the project type and small project size, the relatively short duration of diesel PM-emitting construction activities, and the highly dispersive properties of diesel PM, construction-related TAC emissions would not expose sensitive receptors to substantial pollutant concentrations that would result in an incremental increase in cancer risk. Project operations would result in increased vehicle activity in the project area compared to existing conditions; however, the emissions would be distributed throughout the region and would not result in substantial concentrations for nearby sensitive receptors. Thus, construction and operation-related TAC emissions would not result in substantial pollutant concentrations or an incremental increase in cancer risk at nearby sensitive receptors. Regarding impacts related to CO hotspots, because the project would not meet the applicable screening criteria of 44,000 vehicles per hour through an intersection, the project would not result in a CO hotspot. This impact would be less than significant.

d) Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?

Less-than-significant impact. The occurrence and severity of odor impacts depend on numerous factors, including the nature, frequency, and intensity of the source; wind speed and direction; and the sensitivity of the affected receptors. While offensive odors rarely cause any physical harm, they still can be very unpleasant, leading to considerable distress among the public and often generate citizen complaints to local governments and regulatory agencies. Projects with the potential to frequently expose a substantial number of people to objectionable odors would be deemed to have a significant impact.

Typical odor sources of concern include wastewater treatment plants, sanitary landfills, composting facilities, recycling facilities, petroleum refineries, chemical manufacturing plants, painting operations, rendering plants, and food packaging plants. This is a residential development project that would result in the construction of 19 residential units and would not include any land uses typically associated with the generation of odors.

Odors emitted in the exhaust of on-site engines during construction, particularly diesel-fueled engines, may be considered offensive to some individuals. The generation of these odorous emissions would vary on a day-to-day basis depending on the type of on-site activities taking place. However, the types of diesel-fueled equipment would be similar to the diesel-powered equipment used in other development projects in the area. Such emissions would be intermittent in nature and only occur during operation of the equipment and would dissipate rapidly with increasing distance from the source. Odors generated during construction would not all concentrate at the same location for the entire duration of the construction period. Further, construction activities would be subject to BAAQMD Regulation 8, Rule 3, Architectural Coatings, and Rule 15, Emulsified Asphalt, which reduce odors from volatile organic compound. Operation of the project would be similar to the exiting residences in the surrounding areas and would not involve typical odor sources of concern as described above. For these reasons, the project would not result in the exposure of a substantial number of people to objectionable odors. This impact would be less than significant.

Ascent

3.5 BIOLOGICAL RESOURCES

	ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
	Biological Resources.				
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 Wildlife or the U.S. Fish and Wildlife Service?				
b)	Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, or regulations or by the California Department of Fish and Wildlife or the U.S. Fish and Wildlife Service?				
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?				\boxtimes
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 wildlife nursery sites?			\boxtimes	
e)	Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?		\boxtimes		
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?				

3.5.1 Environmental Setting

To determine the biological resources that may be subject to project impacts, the following data sources were reviewed:

- ► The Arborist Report for Bridgeway Apartments Development (Urban Forestry Associates, Inc. 2018),
- California Natural Diversity Database (CNDDB) (CNDDB 2024),
- California Native Plant Society Inventory of Rare and Endangered Plants of California (CNPS 2024),
- ► U.S. Fish and Wildlife Service Information for Planning and Consultation (IPaC) list of species that may be affected by projects in the City of Sausalito (USFWS 2024), and
- aerial photographs of the project site and surrounding areas.

The project site supports previously developed urban habitat cover, containing existing residential structures, trees, and ornamental vegetation. Trees on and near the property include two native trees: a coast live oak (*Quercus agrifolia*), and a toyon (*Heteromeles arbutifolia*). In addition, there is a deodar cedar (*Cedrus deodara*) located adjacent to the road on 1745 Bridgeway Avenue. While deodar cedar is not native, it is protected by the Sausalito Tree Ordinance. Other trees on-site include blackwood acacia (*Acacia melanoxylon*) and Monterey cypress (*Hesperocyparis macrocarpa*), and various unidentified fruit trees (e.g., *Pittosporum* sp).

RIPARIAN HABITAT AND SENSITIVE NATURAL COMMUNITIES

Sensitive natural communities are those native plant communities defined by California Department of Fish and Wildlife (CDFW) as having limited distribution statewide or within a county or region and that are often vulnerable to environmental effects of projects (CDFW 2018). CDFW designates sensitive natural communities based on their state rarity and threat ranking using NatureServe's Heritage Methodology. Natural communities with rarity ranks of S1 to S3, where S1 is critically imperiled, S2 is imperiled, and S3 is vulnerable, are considered sensitive natural communities to be addressed in the environmental review processes of CEQA and its equivalents (CDFW 2018).

Sensitive natural communities are generally identified at the alliance level of vegetation classification hierarchy using the Manual of California Vegetation (Sawyer et al. 2009). There are no natural communities on the project site that meet the membership rules of any sensitive natural communities recognized in the Manual of California Vegetation. Six sensitive natural communities were identified within the US Geological Survey quadrangles including and surrounding the project site through a query of CNDDB: coastal terrace prairie, serpentine bunchgrass, valley needlegrass grassland, coastal brackish marsh, northern coastal salt marsh, and northern maritime chaparral (CNDDB 2024). None of these sensitive natural communities are present on the project site.

There are no streams or associated riparian habitat on the project site. Runoff from the site would drain into Richardson's Bay, which hosts a variety of sensitive natural communities.

COMMON WILDLIFE SPECIES

There are common wildlife species that use developed areas, including the project site and surrounding area, for foraging, roosting, and nesting. These species include native animals that have adapted well to living close to humans, such as red-shouldered hawk (*Buteo lineatus*), mourning dove (*Zenaida macroura*), Virginia opossum (*Didelphis virginiana*), raccoon (*Procyon lotor*), western fence lizard (*Sceleroporus occidentalis*), and house finch (*Haemorhous mexicanus*), as well as nonnative species, such as house sparrow (*Passer domesticus*) and European starling (*Sturnus vulgaris*). Due to the nature and location of the project site and surrounding area, it is likely that common native and nonnative wildlife species adapted to human disturbed environments use the project site for breeding and moving through the area on a regular basis while foraging.

SPECIAL-STATUS SPECIES

Special-status species are plants and animals that are legally protected under the federal Endangered Species Act (ESA), California Endangered Species Act (CESA), California Fish and Game Code, or local plans, policies, and regulations or that are otherwise considered sensitive by federal, state, or local resource conservation agencies. For the purposes of this IS/MND, special-status species are defined as:

- ► species listed or proposed for listing as threatened or endangered under the ESA;
- species designated as candidates for listing as threatened or endangered under the ESA;
- ► species listed, proposed for listing, or candidates for listing as threatened or endangered under CESA;
- species listed as fully protected under the California Fish and Game Code;
- animals identified by CDFW as species of special concern;

- plants considered by CDFW to be "rare, threatened or endangered in California" and assigned a California Rare Plant Rank of 1A, presumed extinct in California; 1B, considered rare or endangered in California and elsewhere; 2A, presumed extinct in California but more common elsewhere; and 2B, considered rare or endangered in California but more common elsewhere;
- species considered locally significant—that is, species that are not rare from a statewide perspective but are rare or uncommon in a local context, such as in a county or region (CEQA Section 15125[c]), or that are so designated in local or regional plans, policies, or ordinances (State CEQA Guidelines Appendix G); and
- ► taxa (i.e., taxonomic categories or groups) that meet the criteria for listing even if they are not currently included on any list, as described in CCR Section 15380 of the State CEQA Guidelines.

A total of 81 plant species and 45 wildlife species were reviewed as having potential to occur on the project site. Based on further evaluation of species ranges and habitat requirements and conditions on the project site, this list was ultimately pared down to two special-status wildlife species that have potential to occur on or near the project site (Table 3.3-1; CNDDB 2024; CNPS 2024; USFWS 2024) (Appendix C). Other species evaluated during the desktop review were determined to not have potential to occur because they are restricted to habitat types that are not present within the project site (e.g., wetlands, sand dunes, salt marsh, conifer forest), they require areas further from human disturbance than the project site, or the project site is outside of the species' known range. All special-status plants were eliminated from further evaluation because habitats on the project site are too highly altered to support these species.

Name	Federal Status ¹	State Status ¹	CRPR ¹	Habitat	Potential to Occur in the Project Area
Mammals					
Pallid bat Antrozous pallidus	_	SSC	_	Most common in open, dry habitats with rocky areas for roosting. Tree roosting has also been documented in large conifer snags, inside basal hollows of redwoods and giant sequoias, and bole cavities in oaks. Roosts must protect bats from high temperatures. Very sensitive to disturbance of roosting sites.	May occur. Pallid bat may be found roosting in large diameter trees on site or in abandoned structures.
Townsend's big-eared bat Corynorhinus townsendii	_	SSC	_	Throughout California in a wide variety of habitats. Most common in mesic sites. Requires large cavities for roosting, which may include abandoned buildings and mines, caves, and basal cavities of trees. Roosts in the open, hanging from walls and ceilings. Roosting sites limiting. Extremely sensitive to human disturbance.	May occur. Townsend's big-eared bat may be found roosting in large diameter trees or in abandoned structures.

Table 3.3-1	Special-status Plant and Wildlife Species with Potential to Occur in the Vicinity of the Project Site
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General references: Unless otherwise noted all habitat and distribution data provided by CNDDB.

1 Legal Status Definitions

Federal:

FE Endangered (legally protected)

State:

SSC Species of special concern (no formal protection other than CEQA consideration)

Source: CNDDB 2024; USFWS 2024

3.5.2 Discussion

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 Wildlife or the U.S. Fish and Wildlife Service?

Less than significant with mitigation incorporated. Construction of the project would involve demolition of the existing structures on-site, vegetation removal, excavation, grading, and paving of the proposed construction areas as well as landscaping and revegetation. Demolition, vegetation removal, excavation, and grading activities have the potential to affect special-status species if they occupy the project site.

Two special-status bat species have the potential to occur in the project site: pallid bat and Townsend's big-eared bat (see Table 3.3-1). The vacant structures on the project site, as well as large trees with cavities and hollows, could provide day roosts, maternity colony roosts, and/or hibernation roosts for sensitive bat species. If bats are present, demolition of buildings, removal of roosting trees, or other construction activities that cause noise, vibration, or physical disturbance to these structures, could affect the survival of adult or young bats within the structures or trees identified for removal at the time of the activity. Loss of a colony of special-status bats would be a potentially significant impact.

Mitigation Measure BIO-1: Conduct Special-status Bat Surveys

Surveys for roosting bats shall be conducted in accessible portions of the existing structures within 30 days prior to tree removal and demolition. Surveys shall consist of a daytime pedestrian survey looking for evidence of bat use (e.g., guano) and/or an evening emergence survey to note the presence or absence of bats. The type of survey shall depend on the condition of the buildings and specific trees to be removed. If no bat roosts are found, then no further study shall be required. If evidence of bat use is observed, the number and species of bats using the roost shall be determined.

If a roost of bats is determined to be present at the project site, then it shall not be disturbed between April 15 and August 31 (maternity season) or between October 15 and March 1 (hibernation season). During hibernation and maternity season, disturbance to sensitive bat species may result in mortality of disturbed bats or loss of bat pups. If a colony of bats is present in onsite structures, they shall be excluded by installing devices that allow bats to exit and not return. A program addressing compensation, exclusion methods, and roost removal procedures shall be developed in consultation with CDFW before implementation of bat exclusion. Exclusion methods may include use of one-way doors at roost entrances (bats may leave but not reenter) or sealing roost entrances when the site can be confirmed to contain no bats. Exclusion efforts may be restricted during periods of sensitive activity (e.g., during hibernation or while females in maternity colonies are nursing young). The loss of each roost (if any) shall be replaced in consultation with CDFW and may include construction and installation of bat boxes suitable to the bat species and colony size excluded from the original roosting site. Roost replacement shall be implemented before bats are excluded from the original roost sites. Once the replacement roosts are constructed and it is confirmed that bats are not present in the original roost site, the structures may be removed or sealed. Roost exclusion shall be done by a contractor that has previous experience excluding bats from structures. It is recommended that the project sponsor survey several months prior to demolition to allow exclusion of bats if they have colonized the property prior to breeding or hibernating.

Significance after Mitigation

Mitigation Measure BIO-1 would require that surveys are conducted for roosting bats in the existing structures and trees within 30 days prior to tree removal and demolition. If bat roosts are detected, they would be avoided during sensitive periods including the maternity roosting season (April 15 to August 31) to avoid impacts to bat pups, and the overwintering period (October 15 to March 15) to avoid impacts to hibernating bats. If bats are present in structures that must be demolished, bat exclusion devices and roost removal procedures would be developed and implemented

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

Less than significant with mitigation incorporated. The project site does not contain riparian habitat or sensitive natural communities. Richardson's Bay is located approximately 600 feet northwest of the project site, and runoff from the project site would drain into Richardson's Bay via a 12-inch water main that runs generally east-west along Bridgeway immediately north of the project site (City of Sausalito 2021). The bay provides a variety of sensitive marine communities. If runoff containing hazardous materials or silt enters Richardson's Bay, the impacts to sensitive marine communities would be potentially significant. Impacts related to runoff are addressed under Section 3.10, "Hydrology and Water Quality." A project-specific erosion control plan has been prepared to prevent runoff during construction. The erosion control plan identifies erosion and sediment control measures, including installation of file rolls throughout the site to prevent runoff. The project would include on-site stormwater bio-retention basins and a storm drain system to retain and treat stormwater runoff during operation. Mitigation Measure HYDRO-1 requires that a hydrology-hydraulics study be submitted and approved by the City prior to the issuance of a grading or building permit which demonstrates that the project 's on-site storm drain system is designed such that no increase in peak flow rate in stormwater runoff would result from the project. Implementation of the project-specific erosion control plan and Mitigation Measure HYDRO-1 would ensure that stormwater runoff from the project would not significantly impact Richardson's Bay. The adverse effect on sensitive natural communities associated with Richardson's Bay would be less than significant with mitigation incorporated.

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?

No impact. The project site is developed and surrounded by existing development. No state or federally protected wetlands are located on or near the project site. No impact to wetlands from the project would occur, no mitigation is required.

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 wildlife nursery sites?

Less-than-significant impact. The project site does not provide wildlife migratory or nursery habitat for native resident or migratory fish or wildlife species. The project does not fall within areas mapped by CDFW's California Essential Habitat Connectivity Program as either Essential Connectivity Areas or a Natural Landscape Block (CDFW 2014). The project is bordered on all sides by development including Bridgeway to the northwest, a busy road that serves as a barrier to wildlife dispersal. Common bird or bat species adapted to developed areas may incidentally pass through the project site, but no major migration routes are in the area and the project does not serve as a migratory wildlife corridor. There is no aquatic habitat suitable for common fish, amphibians, or other aquatic species on the project site. Wildlife associated with the project site is generally adapted to disturbed urban sites and would not be substantially affected by the project. Implementation of the project would not destroy, impede the use of, or otherwise modify native wildlife nursery sites. Therefore, implementation of the project would not substantially interfere with the movement of native or migratory wildlife species, or adversely affect native residents or migratory wildlife corridors or native wildlife nursery sites. The impacts would be less than significant.

Ascent

e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?

Less than significant with mitigation incorporated. The project is located in the City of Sausalito. Therefore, the City of Sausalito General Plan and ordinances related to biological resources would be applicable to the project. Applicable General Plan policies and programs including the following (City of Sausalito 2021):

- Policy EQ-1.1 Preservation Strategy. Utilize the development review process to protect natural areas in private ownership.
 - Program EQ-1.2.2 Tree Ordinance. Continue to implement the Tree Ordinance and provide support for the maintenance and protection of appropriate vegetation in order to protect desired trees, remove undesired trees, and balance tree maintenance with fire safety, views, and privacy.

The City's Tree and View Ordinance requires a tree permit for the removal of any protected tree. As a component of the overall project, the Planning Commission will review the requested tree permit. As stated in Tree and View Ordinance Section 11.12.030.B.1, to approve the requested tree permit, the Commission must determine that the tree removal is necessary to accomplish any one of the following objectives:

- a. To ensure public safety as it relates to the health of the tree, potential hazard to life or property, proximity to existing or proposed structures, or interference with utilities or sewers;
- b. To allow the reasonable enjoyment of the property, including sunlight, and the right to develop the property;
- c. To take reasonable advantage of views; and
- d. To pursue good, professional practices of forestry or landscape design.

The City of Sausalito's Tree and View Ordinance defines a protected tree as being any tree on privately owned undeveloped property with a diameter at breast height (DBH) of greater than 4 inches, and any Heritage or Dedicated tree. The project site is considered an "undeveloped property" by the definition contained in the Tree and View Ordinance because the existing structures on the site are proposed to be demolished.

An arborist report prepared by Urban Forestry Associates, Inc in September 2018 includes a survey of all Protected Trees on the project site (Urban Forestry Associates, Inc. 2018). The report identifies two significant native trees on the project site: a coast live oak and a toyon. The report also notes that there is a single deodar cedar adjacent to the road on 1745 Bridgeway. Although this species is not native to California, it is protected by the Sausalito Tree Ordinance. Several tree species present on the property are exempt from the tree ordinance, including blackwood acacia (*Acacia melanoxylon*) and Monterey cypress (*Hesperocyparis macrocarpa*).

The survey identifies 23 trees and shrubs with a trunk diameter of 4 inches or greater located on the project site. Most are fruit trees in the genus *Pittosporum*, and there are a few ornamental trees. The only significant native trees on the project site are a coast live oak (Tree #1) and a toyon (Tree #2), both located adjacent to Filbert Avenue.

The project applicant has applied for a Tree Permit to allow the removal of the 23 trees identified in the arborist report. The permit would be considered by the Sausalito Planning Commission. Section 11.12.030.B.2 of the Tree and View Ordinance states that for approval of the requested Tree Permit, one of the following conditions must be satisfied:

- a. The tree to be removed will be replaced by desirable trees; or
- b. The project applicant is required to pay a tree replacement fee in the amount established by City Council resolution; or
- c. The Planning Commission must waive this replacement requirement based on information provided by the applicant.

Tree and View Ordinance Section 11.12.020 defines a desirable tree as "a tree that has been approved for the specific location by the Tree Committee or City Arborist." Removal of the 23 trees identified in the arborist report without meeting the conditions identified in Section 11.12.030.B.2 of the Tree and View Ordinance would result in a significant impact related to conflict with a tree preservation ordinance.

Mitigation Measure BIO-2: Comply with Tree Permit Conditions

The project applicant shall comply with the conditions identified in the Tree Permit approved by the Sausalito Planning Commission.

Significance after Mitigation

Implementation of Mitigation Measures BIO-2 would ensure that the project would be in compliance with Tree and View Ordinance. Therefore, the impact would be less than significant with mitigation incorporated.

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?

No impact. The project site is not located within the jurisdiction of any adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other local conservation plan. Therefore, the project would not 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 would occur.

3.6 CULTURAL RESOURCES

	ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
	Cultural Resources.				
a)	Cause a substantial adverse change in the significance of a historical resource pursuant to Section 15064.5?				\boxtimes
b)	Cause a substantial adverse change in the significance of an archaeological resource pursuant to Section 15064.5?				
c)	Substantially disturb human remains, including those interred outside of dedicated cemeteries?			\boxtimes	

3.6.1 Environmental Setting

In July 2024, a California Historical Resources Information System records search was conducted by the Northwest Information Center (NWIC) on the campus of California State University, Sonoma to determine whether precontact archaeological, historic-period archaeological, or built-environment historical resources have been previously recorded within the project area, the extent to which the project area has been previously surveyed, and the number and type of cultural resources within a 0.25-mile radius of the project area (NWIC File No. 23-1828). The results indicated that there are no previously recorded resources or surveys within the project area. However, within the 0.25-mile radius, two resources and five survey reports have been recorded. The previously recorded resources consist of one historic-era structure and one precontact isolate. An archaeological field survey was completed by Alta Archaeological Consulting (ALTA), and a Federated Indians of the Graton Rancheria (FIGR) Tribal Monitor on November 15, 2024. No archaeological resources were identified within the project site during the survey. The field methods and the results of archaeological field survey are documented in the Archaeological Survey Report (Appendix D).

Four buildings are located on the project site: 1745 Bridgeway (built in 1894); 1751 Bridgeway (built in 1917); 1757 Bridgeway (built in 1879); and 160 Filbert Avenue (built in 1909). Two Historic Resource Evaluations (HREs) have been prepared for the four buildings located on the project site. Carey & Co. Inc. prepared an HRE for 1751 and 1757 Bridgeway and 160 Filbert Avenue in August in 2006 (2006 HRE) and concluded that structures on 1751 and 1757 Bridgeway and 160 Filbert Avenue do not retain a level of historic significance to be eligible for listing on the California Register of Historic Resources (CRHR) (Carey & Co. Inc. 2006). In February 2007, Carey & Co. Inc. prepared a memorandum (2007 Memo) to provide comments on Sausalito Historic Landmarks Borad's (HLB's) review of the 2005 HRE and concluded that due to the fact that no official method exists to assess local level of significance of the subject buildings and would defer the determination of local significance to the HLB (Carey & Co. Inc. 2007).

Page & Turnbull prepared an HRE for 1745 Bridgeway in 2015 (2015 HRE) and concluded that the subject building is not eligible for listing on the CRHR but appears to be eligible for listing on the local historic registers (Page & Turnbull 2015).

On May 27, 2015, HLB reviewed the 2007 Memo and 2015 HRE to evaluate the historic significance of the four existing structures. The HLB found no significance under the following criteria (City of Sausalito 2015):

► Is the structure associated with events that have made a significant contribution to the broad patterns of the history, culture, or heritage of Sausalito, California, or the United States?

- ▶ Is this structure associated with the life or lives of one or more people important in our past?
- Does the structure embody the distinctive characteristics of a type, period, region, or method of construction, or represent the work of an important creative individual, or possess high artistic values?
- ▶ Has the structure yielded, or may it be likely to yield, information important in prehistory or history?

The HLB concluded their review by stating that based upon the information available and presented, the structures on the project site are not considered to be a significant local historic resource. The HLB also requested that documentation pursuant to the Historic American Building Survey guidelines be completed as a Condition of Approval (as described in Chapter 2, "Project Description"). Therefore, none of the buildings were eligible for listing in the Sausalito Local Register based on HLB's review of the 2007 Memo and 2015 HRE.

Due to the length of time that elapsed from the 2015 HLB determination, the Historic Preservation Commission (HPC) held a second public hearing on October 24, 2019 to re-confirm the historic status of the existing buildings on the project site. The HPC considered the 2006 HRE prepared by Carey & Co. Inc., the 2015 HRE Page & Turnbull, and a supplemental Historic Resource Determination Information Packet for the project site. The project site is not within a Historic Overlay District and does not contain any Designated Historic Structures. During the public hearing, no public comments were received. The HBL, based on the review of the HREs and supplemental packet, determined that the existing buildings on the project site do not qualify as historical resources according to the criteria contained in Public Resources Code Section 21084.1 and Title 14, California Code of Regulations, Section 15064.5. Therefore, the on-site buildings are not eligible for listing in the CRHR based on HPC's review of the existing HREs.

3.6.2 Discussion

a) Cause a substantial adverse change in the significance of a historical resource pursuant to Section 15064.5?

No impact. The buildings at 1745 Bridgeway, 1751 Bridgeway, 1757 Bridgeway, and 160 Filbert Avenue have been recommended not eligible for listing in the California Register of Historical Resources. The City's Historic Preservation Commission concurred with this finding and the City's Historic Landmark Board concluded that none of the buildings were eligible for local listing. Therefore, there are no historical resources, as defined in Section 15064.5 of the CEQA Guidelines, present on the project site. Therefore, demolition of these structures would not result in a significant environmental impact as defined by CEQA Guidelines. No impact would occur, and no mitigation is required.

b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to Section 15064.5?

Less than significant with mitigation incorporated. The records search revealed no previously recorded precontact or historic-era archaeological resources within the project site. ALTA staff archaeologist and FIGR Tribal Monitor conducted an archaeological field survey of the project site on November 15, 2024. Shell fragments were found on the ground surface within two garden areas. The source of the shell appeared to be abalone and clam embedded in concrete retaining walls and related to modern occupation of the project site. These items were likely brought into the area during modern times and do not represent archaeological material. Therefore, no archaeological resources were identified within the project site. However, the project would involve ground disturbing activities (e.g., excavation and grading) during site preparation and building construction. In addition, the project would include relocation of a sewer line and connection to electricity infrastructure. The proposed utility connections would involve excavation activities and would occur within the project site and on existing public rights-of-way. Archaeological deposits may be uncovered during ground disturbing activities within the project site and public rights-of-way. These activities could damage or destroy previously undiscovered unique archaeological resources pursuant to Section 15064.5. Impacts would be potentially significant.

Mitigation Measure CR-1: Worker Cultural Resources Training

Prior to any ground-disturbing activity, an initial sensitivity session shall be provided by a Secretary of the Interiorqualified professional archaeologist to all project employees, contractors, subcontractors, and other professionals prior to their involvement in any ground-disturbing activities, with subsequent training sessions occurring on asneeded basis to accommodate new personnel becoming involved in the project. The qualified professional archaeologist shall invite FIGR to participate in and present Native American perspectives during the training sessions if they so choose. The sensitivity training shall address: the cultural (Native American and archaeological) sensitivity of the project site and a tutorial providing information on how to identify these types of resources; appropriate behavior; worker access routes and restrictions; work area cleanliness; safety procedures when working with monitors; and consequences in the event of noncompliance.

Mitigation Measure CR-2: Tribal Monitoring

A minimum of three weeks prior to ground disturbance the project applicant shall retain and compensate for the services of a FIGR Tribal Monitor; construction activities shall proceed if no response is received from FIGR 48 hours prior to ground disturbing activities. Ground disturbing activities may include, but are not limited to, pavement removal, pot-holing or auguring, grubbing, tree removals, boring, grading, excavation, drilling, and trenching, within the project area. The Tribal Monitor will complete daily monitoring logs that will provide descriptions of the day's activities, including construction activities, locations, soil, and any cultural materials identified. The on-site monitoring shall end when the project site grading and excavation activities are completed, or when the Tribal Monitor has indicated that the site has a low potential for impacting tribal cultural resources.

Mitigation Measure CR-3: Unanticipated Discovery of Archaeological Resources

In the event that a historic-period archaeological resource (such as concentrated deposits of bottles or bricks with makers marks, amethyst glass, ceramic or metal pipes, or other historic refuse) or a precontact archaeological resource (such as lithic scatters, midden soils), is uncovered during grading or other construction activities, all ground-disturbing activity within 50 feet of the discovery shall be halted until a gualified archaeologist who meets the Secretary of the Interior's Professional Standard for archaeology can assess the significance of the find. The City of Sausalito will be notified of the potential find and a qualified archeologist shall be retained to investigate its significance. If the find is suspected to be Native American in origin, the culturally and geographically affiliated Native American tribe shall be contacted for their input on the preferred treatment of the find. Any previously undiscovered resources found during construction shall be recorded on appropriate California Department of Parks and Recreation 523 forms and evaluated for significance under all applicable regulatory criteria. If the archaeologist determines that the find does not meet the California Register of Historical Resources standards of significance for cultural resources, construction may proceed. If the find is determined to be significant by the qualified archaeologist (i.e., because the find is determined to constitute either an historical resource or a unique archaeological resource), the archaeologist shall work with the City of Sausalito to follow accepted professional standards such as further testing for evaluation or data recovery, as necessary. The results of the identification, evaluation, and/or data recovery program for any unanticipated discoveries shall be presented in a professional-guality report that details all methods and findings, evaluates the nature and significance of the resources, analyzes and interprets the results.

Significance after Mitigation

Implementation of Mitigation Measures CR-1 to CR-3 would reduce potential impacts to less than significant by requiring worker cultural resources training, tribal monitoring, the performance of professionally accepted and legally compliant procedures for the discovery of previously undocumented significant archaeological resources. Therefore, the impact would be less than significant with mitigation incorporated.

c) Substantially disturb human remains, including those interred outside of formal cemeteries?

Less-than-significant impact. Based on documented research, no evidence suggests that any precontact or historic era marked or unmarked human interments are present within or in the immediate vicinity of the project site. However, grave sites and Native American remains can occur outside of identified cemeteries or burial sites. Therefore, there is a possibility that unmarked, previously unknown grave sites and Native American remains could be present within the project site and could be uncovered by project-related construction activities. California law recognizes the need to protect Native American human burials, skeletal remains, and items associated with Native American burials from vandalism and inadvertent destruction. The procedures for the treatment of Native American human remains are contained in California Health and Safety Code Section 7050.5 and Public Resources Code (PRC) Section 5097. These statutes require that, if human remains are discovered, potentially damaging ground-disturbing activities within a 50-foot radius shall be halted immediately, and the appropriate County Coroner shall be notified immediately. If the remains are determined by the coroner to be Native American, Native American Heritage Commission (NAHC) shall be notified within 24 hours and the guidelines of the NAHC shall be adhered to in the treatment and disposition of the remains. Following the coroner's findings, the NAHC-designated Most Likely Descendant, and the landowner shall determine the ultimate treatment and disposition of the remains and take appropriate steps to ensure that additional human interments, if present, are not disturbed. The responsibilities for acting upon notification of a discovery of Native American human remains are identified in PRC Section 5097.94. Compliance with California Health and Safety Code Section 7050.5 and PRC Section 5097 would provide an opportunity to avoid or minimize the disturbance of human remains, and to appropriately treat any remains that are discovered. Therefore, this impact would be less than significant.

3.7 ENERGY

ENVIRONMENTAL ISSUES VI. Energy. Would the project:	Potentially Significant Impact	Less Than Significant 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? 				
b) Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?			\boxtimes	

3.7.1 Environmental Setting

ENERGY FACILITIES AND SERVICES IN THE PROJECT AREA

Electricity and natural gas are supplied to the project area by Pacific Gas and Electric Company (PG&E). Marin Clean Energy (MCE), a public, not-for-profit community choice aggregate (CCA), is the primary electric generation provider in the project area. California State legislation requires that community choice programs like MCE operate as the primary electric generation service provider through an automatic enrollment process. Accounts are automatically enrolled with MCE's Light Green 60 percent renewable energy service unless the account holder opts out (MCE n.d.). CCAs in the San Francisco Bay Area, including MCE, utilize PG&E infrastructure to deliver low-carbon electricity to their customers. The project site is not currently enrolled in MCE. See Table 3.6-1 below for a summary of PG&E's power content label and Table 3.6-2 for MCE's power content label. The proportion of electricity generated from eligible renewable energy sources is anticipated to increase over time to comply with the goals of Senate Bill 1020, which requires that eligible renewable energy resources and zero-carbon resources supply 90 percent of all retail sales of electricity to California end-use customers by December 31, 2035, 95 percent by December 31, 2040, 100 percent by December 31, 2045, and 100 percent of electricity procured to serve all state agencies by December 31, 2035.

Energy Resource	Percent (%) of Total
Eligible Renewable (biomass and biowaste, geothermal, eligible hydroelectric, solar, and wind)	38%
Coal	0%
Large hydroelectric	8%
Natural Gas	5%
Nuclear	49%
Other	0%
Unspecified Power ¹	0%
Total	100%

Table 3.6-1	Pacific Gas and Electric Power Content Label (2022)
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¹ Unspecified power is electricity that has been purchased through open market transactions and is not traceable to a specific generation source.

Energy Resource	Percent (%) of Total
Eligible Renewable (biomass and biowaste, geothermal, eligible hydroelectric, solar, and wind)	60%
Coal	0%
Large hydroelectric	40%
Natural Gas	0%
Nuclear	<1%
Other	0%
Unspecified Power ¹	1%
Total	100%

Table 3.6-2 Marin Clean Energy Power Content Label (2022)

Notes: Totals may not sum due to rounding.

¹ Unspecified power is electricity that has been purchased through open market transactions and is not traceable to a specific generation source.

Source: CEC 2023b.

Energy Types and Sources

California relies on a regional power system composed of a diverse mix of natural gas, renewable, hydroelectric, and nuclear generation resources. One-third of energy commodities consumed in California is natural gas.

In 2022, total utility-scale electric generation for California was 287,220 gigawatt-hours (GWh), up 3.4 percent (9,456 GWh) from 2021. Utility-scale renewable generation increased 10.2 percent (9,520 GWh) in 2022 to 102,853 GWh from 93,333 GWh in 2021, solar generation increased 24.1 percent (9,492 GWh) to 48,950 GWh in 2022 from 39,458 GWh in 2021. Renewable and non-greenhouse gas (-GHG) (nuclear and large hydroelectric) resources accounted for 54.2 percent of total energy generation, compared to 52.1 percent in 2021 and, overall, all hydroelectric generation including imports accounted for 10.4 percent (29,758 GWh) of total system electric generation in 2022 (CEC 2023c).

Alternative Fuels

A variety of alternative fuels are used to reduce demand for petroleum-based fuel. The use of these fuels is encouraged through various statewide regulations and plans (e.g., Low Carbon Fuel Standard, Assembly Bill 32 Scoping Plan). Conventional gasoline and diesel may be replaced (depending on the capability of the vehicle) with many transportation fuels, including:

- biodiesel,
- electricity,
- ▶ ethanol (E-10 and E-85),
- hydrogen,

- propane,
- renewable diesel (including biomass-to-liquid),
- synthetic fuels, and
- ▶ gas-to-liquid and coal-to-liquid fuels.
- natural gas (methane in the form of compressed and liquefied natural gas),

California has a growing number of alternative fuel vehicles through the joint efforts of California Energy Commission (CEC), CARB, local air districts, federal government, transit agencies, utilities, and other public and private entities. As of December 2023, California contained over 50,335 alternative fueling stations (AFDC 2023).

ENERGY USE FOR TRANSPORTATION

In 2021, the transportation sector comprised the largest end-use sector of energy in California totaling 37.8 percent, followed by the industrial sector totaling 23.2 percent, the residential sector at 20.0 percent, and the commercial sector at 19.0 percent (EIA 2023). On-road vehicle use comprises about 90 percent of the petroleum consumed in California.

ENERGY USE AND CLIMATE CHANGE

Scientists and climatologists have produced evidence that the burning of fossil fuels by vehicles, power plants, industrial facilities, residences, and commercial facilities has led to an increase of the earth's temperature. For an analysis of GHG production and the project's impacts on climate change, refer to Section 3.8, "Greenhouse Gas Emissions."

3.7.2 Discussion

a) 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. Energy would be required to construct, operate, and maintain construction equipment and to produce and transport construction materials associated with construction of the project. The project would be constructed over an approximately 24- to 30-month period. The one-time energy expenditure required to construct the parking lot and infrastructure associated with the project would be nonrecoverable. Most energy consumption would result from the operation of construction equipment and vehicle trips associated with commutes by construction workers and haul trucks transporting materials to and from the project site. The project would increase energy consumption for temporary construction activities related to vehicle use and material transport. However, construction activities would be temporary. Energy and fuel consumption would cease once construction activities are complete and would not require long-term energy or fuel demand. Construction activities would follow standard practices related to other construction activities in the region. In addition, on-road gasoline and diesel fuel consumption associated with construction activities would decrease every year as the vehicle fleet becomes more fuel-efficient over time. There is no basis to conclude that construction would be wasteful of fuel or other energy resources; therefore, it is expected that only the necessary amount of fuel would be consumed to complete construction of the project.

Operation of the project would result in the consumption of electricity for lighting. No natural gas would be consumed, and all power needs would be met through electrical connections. Operation of the project would also result in the consumption of fossil fuels from vehicle trips. State and federal regulations regarding fuel efficiency standards for vehicles in California are designed to reduce wasteful, inefficient and unnecessary use of energy for transportation. Over time, these regulations and efficiency standards would reduce fuel consumption from fossil fuels.

Once operational, the project would increase transportation and building energy; however, the project would not consume natural gas. The project site is located within 0.5 mile of existing transit stops and would include improved bicycle and pedestrian amenities. These factors could increase the use of alternative modes of transportation and promote the reduction of single-occupancy vehicle trips and thus could further reduce VMT and, therefore, fuel consumption. According to Appendix F of the State CEQA Guidelines, the means to achieve the goal of conserving energy include decreasing overall per capita energy consumption, decreasing reliance on oil, and increasing reliance on renewable energy sources. As stated above, the project would be all-electric contribute to reducing countywide VMT per capita and include electric vehicle (EV)-ready and EV-capable parking spaces, meeting the mandatory requirements of the CalGreen code, to promote the use of EVs. The project would not develop uses or involve activities that would conflict with goals of decreasing per capita energy consumption, reliance on oil (petroleum), or increasing uses of renewable energy sources, or that would result in wasteful, inefficient, or unnecessary consumption of energy. The impact would be less than significant.

b) Conflict with or obstruct a state or local plan for renewable energy or energy efficiency

Less-than-significant impact. See Impact a) in Section 3.8, "Greenhouse Gas Emissions," for an in-depth analysis of the project's consistency with the 2022 Scoping Plan. As determined by the analysis in Section 3.8, the project would be consistent with the priority areas identified in Appendix D, "Local Actions," of the 2022 Scoping Plan. Therefore, the impact would be less than significant.

3.8 GEOLOGY AND SOILS

	ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
	I. Geology and Soils. ould the project:				
a)	Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:				
	 Rupture of a known earthquake fault, as delineate on the most recent Alquist-Priolo Earthquake Fau Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? (Refer to California Geological Surve Special Publication 42.) 	lt			
	ii) Strong seismic ground shaking?			\boxtimes	
	iii) Seismic-related ground failure, including liquefaction?		\boxtimes		
	iv) Landslides?		\boxtimes		
b)	Result in substantial soil erosion or the loss of topso	il?		\boxtimes	
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?				
d)	Be located on expansive soil, as defined in Table 18- B of the Uniform Building Code (1994, as updated), creating substantial direct or indirect risks to life or property?	1-			
e)	Have soils incapable of adequately supporting the u of septic tanks or alternative wastewater disposal systems where sewers are not available for the disposal of wastewater?	ise 🗌			\boxtimes
f)	Directly or indirectly destroy a unique paleontologic resource or site or unique geologic feature?	al 🗌	\boxtimes		

3.8.1 Environmental Setting

The site slopes uphill in a southerly direction, from about 30 feet in elevation along Bridgeway to between 66 and 73 feet in elevation along Filbert Avenue. A Geotechnical Engineering Study has been prepared for the project by Earth Systems Pacific in 2018 (Earth Systems Pacific 2018). The Geotechnical Engineering Study uses data derived from field reconnaissance, evaluation of the general geology and seismicity of the site, sampling of the subsurface soils of the site, and laboratory testing of the boring samples obtained. The Geotechnical Engineering Study is provided in Appendix E.

The project site is not within the Alquist-Priolo earthquake fault zone. The major fault lines nearest to the project site include the San Andreas Fault (located approximately 7.2 miles to the southwest) and the Hayward Fault (11.7 miles to the northeast) (Earth Systems Pacific 2018). Neither of these fault zones run through the City of Sausalito or underneath the project site. The project site is located within the San Francisco Bay Area, which is considered to be an active seismic region. Although the project site is not within an active fault zone, the project site is located within an active seismic region that may cause strong seismic ground shaking in the event of an earthquake. The result of subsurface exploration by Earth Systems Pacific in 2018 indicated that the project site is underlain by clayey soils and bedrock, which are generally not susceptible to seismic related ground failure or liquefaction (Earth Systems Pacific 2018). The test boring samples analyzed in the geotechnical report indicate the presence of soil with moderately high expansive potential on the project site (Earth Systems Pacific 2018).

As indicated in the City of Sausalito General Plan much of Sausalito consists of hilly terrain, and hillside slipping, including landslides, are sources of great risk in the city (City of Sausalito 2021). The project site is located at the bottom of a hill and the Geotechnical Engineering Study indicated the presence of sloping-soil conditions on the project site (Earth Systems Pacific 2018).

3.8.2 Discussion

- 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 California Geological Survey Special Publication 42.)

No impact. As discussed under Section 3.8.1, the major fault lines nearest to the project site include the San Andreas Fault and the Hayward Fault, which are approximately 7.2 miles to the southwest and 11.7 miles to the northeast, respectively. The project site is not within the Alquist-Priolo earthquake fault zone. Therefore, implementation of the project would not adversely affect persons or property due to the rupture of a known earthquake fault. No impact from rupture of a known earthquake fault would occur.

ii) Strong seismic ground shaking?

Less-than-significant impact. The project would replace the existing vacant residential buildings with 19 residential units in two new buildings. The project site is located within the San Francisco Bay Area, which is considered to be an active seismic region. The project design would be subject to seismic standards and codes, including Title 24 of the CBC. The City would review and approve the project plans to ensure compliance with the latest version of the CBC. Compliance with the CBC and review and approval by the City would ensure that the project is designed, constructed, and operated to reduce damage and minimize loss of life associated with strong seismic ground shaking. Therefore, the proposed project would not cause substantial adverse effects from strong seismic ground shaking. This impact would be less than significant, and no mitigation is required.

iii) Seismic-related ground failure, including liquefaction?

iv) Landslides?

Less than significant with mitigation incorporated. Liquefaction refers to the liquefied condition and subsequent softening that can occur in soils when they are subjected to cyclic strains, such as those generated during a seismic event. Saturated soil conditions, low soil density, grain sizes within a certain range, and a sufficiently strong earthquake, in combination, create potential for liquefaction. The result of subsurface exploration summarized in the

project-specific geotechnical study indicated that the project site is underlain by clayey soils and bedrock, which are generally not susceptible to seismic-related ground failure or liquefaction (Earth Systems Pacific 2018).

Slope failure or land sliding most frequently occurs under non-seismic conditions, typically during the winter or spring as a result of rainfall but can be triggered or accelerated by ground shaking. In southern Marin County, the potential for seismically induced land sliding depends upon a number of factors, including the nature of bedrock, nature and depth of soils, angle and direction of the slope, and moisture content. The most common type of earthquake-induced ground failures are small sloughs or rockslides on steep cut slopes. Movement can also occur in pre-existing landslides. The project site is located at the bottom of a hill and the project-specific geotechnical study indicated the presence of sloping soil conditions on the project site. The impacts from landslides would be potentially significant.

Mitigation Measure GEO-1: Implement Geotechnical Recommendations

To minimize potential impacts from seismic events and the presence of adverse soil conditions, the geotechnical design recommendations identified in the Geotechnical Engineering Study prepared by Earth Systems Pacific on November 6, 2018 shall be incorporated into the design of the buildings and construction specifications, including but not limited to recommendations for site preparation, soil compaction, native or import fill materials, foundation design, and construction methods.

Significance after Mitigation

Mitigation Measure GEO-1 would require implementation of geotechnical recommendations to minimize potential impacts from seismic events. Geotechnical recommendations include recommendations for site preparation, grading, fill placement, building foundations, and retaining walls. Implementation of the recommendations contained in the project-specific geotechnical study would reduce risks associated with seismic events to a less-than-significant level. The impacts related to seismic ground failure, including liquefaction and landslides, would be less than significant with mitigation incorporated.

b) Result in substantial soil erosion or the loss of topsoil?

Less-than-significant impact. The project would replace the existing vacant residential buildings with 19 residential units in two buildings. Following demolition, soil underneath the project site would be exposed and would be particularly prone to erosion during excavation and site development activities, especially if construction was to coincide with heavy rains. As discussed further in Section 3.10, "Hydrology and Water Quality," the potential for erosion would be minimized through implementation of BMPs for stormwater, such as temporary catchment basins and/or sandbags, which would control runoff and contain sediment transport within the project site during construction. Therefore, substantial sedimentation and erosion would not occur during construction. During project operation, the onsite buildings, pavement, landscaping, and appropriate drainage infrastructure would minimize the potential for on-site erosion. Therefore, the project would not result in substantial soil erosion or the loss of topsoil. The impact would be less than significant, and no mitigation is required.

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?

Less than significant with mitigation incorporated. The project site contains soil with moderately high expansive potential as indicated in the test boring samples analysis included in the project-specific geotechnical study (Earth Systems Pacific 2018). Soils with high expansive potential are considered unstable because structures built on such soil are at greater risk of incurring damage if not properly designed. In effect, the project would be subject to CBC requirements and review and approval by the City, which would ensure that the project would be designed, constructed, and operated to minimize risks associated with geologic hazards. In addition, the project would implement Mitigation Measure GEO-1, which would require incorporating the recommendations outlined in the project-specific geotechnical study. Geotechnical recommendations include recommendations for site preparation, grading, fill placement, building foundations, and retaining walls. Implementation of the Mitigation Measure GEO-1

would require incorporation of geotechnical recommendations for foundation design, soil compaction, and fill materials requirements into project design to ensure that the impacts related to unstable soils would be less than significant. Therefore, the impact would be less than significant with mitigation incorporated.

d) Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994, as updated), creating substantial direct or indirect risks to life or property?

Less than significant with mitigation incorporated. As described in Section 3.8.1, the test boring samples analyzed in the geotechnical report indicate the presence of soil with moderately high expansive potential on the project site (Earth Systems Pacific 2018). The project would implement Mitigation Measure GEO-1, which requires incorporating the recommendations outlined in the Geotechnical Engineering Study. Geotechnical recommendations include recommendations for site preparation, grading, fill placement, building foundations, and retaining walls. Implementation of Mitigation Measure GEO-1 would require incorporation of geotechnical recommendations for foundation design, soil compaction, and fill materials requirements into project design to ensure that the impact associated with expansive soils would be less than significant. Therefore, the impact would be less than significant with mitigation incorporated.

e) Have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems where sewers are not available for the disposal of wastewater?

No impact. The project would tie into the existing sewer system and would not use a septic tank system or other alternative wastewater disposal system. Therefore, there would be no impact, and no mitigation is required.

f) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?

Less than significant with mitigation incorporated. No known or unknown paleontological resources are expected to be present on the project site, and there is no evidence that the project site is sensitive to paleontological resources because of the location, local geology, and level of disturbance of the project area. However, it is possible that paleontological resources could be uncovered during construction. Impacts would be potentially significant.

Mitigation Measure GEO-2: Unanticipated Discovery of Paleontological Resources

If paleontological resources are discovered during earthmoving activities, the construction supervisor shall immediately cease work in the vicinity of the find and notify the City. A qualified paleontologist shall be retained to evaluate the resource and prepare a recovery plan in accordance with Society of Vertebrate Paleontology guidelines. The recovery plan may include, but is not limited to, a field survey, construction monitoring, sampling and data recovery procedures, museum storage coordination for any specimen recovered, and a report of findings. Recommendations in the recovery plan that are determined by the lead agency to be necessary and feasible shall be implemented before construction activities can resume at the site where the paleontological resources were discovered.

Significance after Mitigation

Mitigation Measure GEO-2 would require stop work and preparation of recovery plan if paleontological resources are discovered during construction. The impact to unique paleontological resources would be less than significant with mitigation incorporated.

3.9 GREENHOUSE GAS EMISSIONS

	ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
VII Wo	I. Greenhouse Gas Emissions. buld the project:				
a)	Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?		\boxtimes		
b)	Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?		\boxtimes		

3.9.1 Environmental Setting

GREENHOUSE GAS EMISSION SOURCES

Statewide

GHG emissions are attributable in large part to human activities. The total GHG inventory for California in 2021 was 381 million metric tons of carbon dioxide (CO₂) equivalent (MMTCO₂e) (CARB 2023). Emissions of CO₂ are byproducts of fossil fuel combustion. Methane, a highly potent GHG, primarily results from off-gassing (the release of chemicals from non-metallic substances under ambient or greater pressure conditions) and is largely associated with agricultural practices and landfills. NO_X is also largely attributable to agricultural practices and soil management. CO₂ sinks, or reservoirs, include vegetation and the ocean, which absorb CO₂ through sequestration and dissolution (CO₂ dissolving into the water), respectively, two of the most common processes for removing CO₂ from the atmosphere. Table 3.8-1 summarizes the statewide GHG inventory for California by economic sections, which shows that transportation, industry, and electricity generation are the largest GHG emission sectors.

Scoping Plan Sector	2021 Emissions (MMTCO2e)	Percentage
Transportation	145.6	38%
Industrial	73.9	19%
Electricity	62.4	16%
Residential & Commercial	38.8	10%
Agriculture	30.9	8%
High GWP	21.3	6%
Waste	8.4	2%

Notes: MMTCO₂e = million metric tons of carbon dioxide equivalent; GWP = global warming potential.

¹ Total emissions are approximate value based on 2019 total California emissions. Totals may not equal the sum of the numbers because of independent rounding.

Source: CARB 2023.

City of Sausalito

The City of Sausalito Community Greenhouse Gas Emissions Inventory for the Year 2022 (2022 GHG Inventory) provides a GHG emissions inventory for the year 2022. Table 3.8-2 summarizes Sausalito's community GHG emissions

by sources for 2022. Transportation and Built Environment – Natural Gas are the two largest GHG emissions sources in Sausalito. Natural gas is used in residential, commercial, and industrial buildings to provide space and water heating and power appliances (Marin Climate and Energy Partnership 2024).

Source	Total Emissions (MTCO ₂ e)	Percent of Total
Built Environment – Electricity	1,270	2.5%
Built Environment – Natural Gas	16,080	31%
Transportation	32,500	62.8%
Waste	1,166	2.3%
Off-Road	0	0%
Water	136	<1%
Wastewater	616	1.2%
Total	51,768	100%

Table 3.8-2 Sausalito Community GHG Emissions by Sources

Notes: MTCO₂e = metric tons of carbon dioxide equivalent.

Source: Marin Climate and Energy Partnership 2024.

EFFECTS OF CLIMATE CHANGE ON THE ENVIRONMENT

According to the Intergovernmental Panel on Climate Change, which was established in 1988 by the World Meteorological Organization and the United Nations Environment Programme, global average temperature will increase by 3.7 to 3.8 degrees Celsius (°C) (6.7 to 8.6 degrees Fahrenheit [°F]) by the end of the century unless additional efforts to reduce GHG emissions are made (IPCC 2014: 10). According to CEC, temperatures in California will warm up by approximately 2.7°F above 2000 averages by 2050 and by 4.1°F to 8.6°F by 2100, depending on emission levels (CEC 2012: 2).

Other environmental resources could be indirectly affected by the accumulation of GHG emissions and the resulting rise in global average temperature. In recent years, California has been marked by extreme weather and its effects. According to California Natural Resources Agency's (CNRA) Safeguarding California Plan: 2018 Update, California experienced the driest 4-year statewide precipitation on record from 2012 through 2015; the warmest years on average in 2014, 2015, and 2016; and the smallest and second smallest Sierra snowpack on record in 2015 and 2014 (CNRA 2018: 55). In contrast, the northern Sierra Nevada experienced its wettest year on record during the 2016-2017 water year (CNRA 2018: 64). The changes in precipitation exacerbate wildfires throughout California, increasing their frequency, size, and devastation. As temperatures increase, the amount of precipitation falls as rain rather than snow also increases, which could lead to increased flooding because water that would normally be held in the snowpack of the Sierra Nevada and Cascade Range until spring would flow into the Central Valley during winter rainstorm events. This scenario would place more pressure on California's levee/flood control system (CNRA 2018: 190–192). Furthermore, in the extreme scenario involving the rapid loss of the Antarctic ice sheet, the sea level along California's coastline could rise up to 10 feet by 2100, which is approximately 30-40 times faster than the sea-level rise experienced over the last century (CNRA 2017: 102). Changes in temperature, precipitation patterns, extreme weather events, wildfires, and sea-level rise have the potential to threaten transportation and energy infrastructure and crop production (CNRA 2018: 64, 116-117, 127).

2022 BAAQMD JUSTIFICATION REPORT

BAAQMD released its 2022 Justification Report: CEQA Thresholds for Evaluating the Significance of Climate Impacts from Land Use Projects and Plans, which contains recommended thresholds of significance for use in determining whether a project will have a significant impact on climate change. BAAQMD recommends that the thresholds of significance identified in the 2022 BAAQMD Justification Report be used by public agencies for CEQA compliance. In its analysis, BAAQMD found that a new land use development project proposed today should incorporate design elements to do its "fair share" of implementing the goal of carbon neutrality by 2045. If a project is designed and built to incorporate the design elements identified in the 2022 Justification Report, then the project will contribute its portion of what is necessary to achieve California's long-term climate goals—its "fair share"—and an agency reviewing the project under CEQA can conclude that the project will not make a cumulatively considerable contribution to global climate change. The thresholds for land use projects include two options, either option "A" or option "B." Option "A" requires that projects incorporate building design elements (such as excluding natural gas appliances or natural gas plumbing, in both residential and nonresidential development; and avoiding any wasteful, inefficient, or unnecessary energy usage as determined by the analysis required under CEQA Section 21100(b)(3) and Section 15126.2(b) of the State CEQA Guidelines) and transportation design elements (such as achieving a reduction in project-generated VMT for residential projects at 15 percent below the existing VMT per capita; and achieving compliance with off-street EV requirements in the most recently adopted version of CALGreen Voluntary Tier 2 standard). Option "B" requires projects be consistent with a local GHG reduction strategy that meets the criteria under State CEQA Guidelines Section 15183.5(b).

PLAN BAY AREA 2050: STRATEGY FOR A SUSTAINABLE REGION

On October 21, 20121, the Association of Bay Area Governments (ABAG) and the Metropolitan Transportation Commission (MTC) adopted Plan Bay Area 2050, an integrated transportation and land-use strategy through 2050 that serves as the region's long-range plan to meet the requirements of SB 375. Working in collaboration with cities and counties, Plan Bay Area 2050 advances initiatives to expand housing and transportation choices, create healthier communities, and build a stronger regional economy. Plan Bay Area 2050 is expected to reduce emissions from transportation significantly in the years leading up to 2035, representing a 20 percent decrease in per capita emissions when compared to 2005 (meeting the state mandate of a 19 percent reduction by that year) — if all plan strategies are implemented (ABAG and MTC 2021).

3.9.2 Discussion

a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?

Less than significant with mitigation incorporated. Construction of the project would result in GHG emissions from activities such as the operation of construction equipment, material hauling, and worker commutes. According to the BAAQMD CEQA Guidelines, because construction emissions are temporary and variable, the BAAQMD has not developed a quantitative threshold of significance for construction-related GHG emissions (BAAQMD 2022). Regarding operations, the BAAQMD CEQA Guidelines states that a project must contribute its portion of what is necessary to achieve California's long-term climate goals to reach a less-than-significant impact related to climate change. According to BAAQMD CEQA Guidelines, a project contributes its "fair share" by complying with option "A" or option "B" as described in Section 3.8.1. While the City of Sausalito has an adopted climate action plan (CAP), the CAP did not undergo the CEQA review process and is therefore not applicable to this analysis. Therefore, project impacts are analyzed based on consistency with option "A." The project would feature all electric design but would not feature CalGreen Tier 2-compliant EV chargers as required under option "A." As described in Section 3.17, "Transportation," the project would not exceed the VMT threshold of 13.4 (i.e., 15 percent below existing Countywide VMT per resident). Additionally, as discussed in Section 3.6, "Energy," the project would not result in the wasteful, inefficient, or unnecessary consumption of energy. However, because the project would not meet the Tier 2 Voluntary Standards for EV charging of the CalGreen code, the project would not comply with option "A" to demonstrate that it is contributing its "fair share" to achieve California's long-term climate goals.

As stated in its Justification Report, BAAQMD's thresholds were designed to ensure that local governments do their "fair share" to contribute to the statewide goal of achieving carbon neutrality by 2045, as codified in AB 1279 (BAAQMD 2022). Additionally, the requirements for option "A" are similar to the direction provided in Appendix D,

"Local Actions," of the 2022 Scoping Plan which identifies building decarbonization, VMT reductions, and the electrification of the mobile source sector as key priority areas that local jurisdictions can target to do their "fair share" in assisting the state in meeting its long-term goal of carbon neutrality by 2045 (CARB 2022). The 2022 Scoping Plan explains that, "[a]bsent consistency with an adequate, geographically specific GHG reduction plan such as a CEQA-qualified CAP... the first approach the State recommends for determining whether a proposed residential or mixed-use residential development would align with the State's climate goals is to examine whether the project includes key project attributes that reduce operational GHG emissions while simultaneously advancing fair housing" (CARB 2022). Because the project as currently designed does not include Tier 2 EV chargers, the project would not meet the criteria for option "A" and would therefore not be consistent with the 2022 Scoping Plan and would generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment or conflict with state GHG reduction goals.

Mitigation Measure GHG-1: Install CalGreen Tier 2-Compliant On-site Electric Vehicle Charging Infrastructure

Prior to the issuance of construction permits, the project applicant shall incorporate the appropriate number of EV charging equipment to meet the Tier 2 requirements of Part 11 of the Title 24 California Building Code (CalGreen code) in effect at the time of project construction. Requirements are as follows for residential land uses:

Residential Parking: For each dwelling unit, a dedicated 208/240-volt branch circuit shall be installed in the raceway (i.e., the enclosed conduit that forms the physical pathway for electrical wiring to protect it from damage) required by Section A4.106.4.1 of the CalGreen Code. The branch circuit and associated overcurrent protective device shall be rated at 40 amperes minimum. Other electrical components, including a receptacle or blank cover, related to this section shall be installed in accordance with the California Electrical Code.

Significance after Mitigation

Implementation of Mitigation Measure GHG-1 would require that the project comply with the Tier 2 EV charging requirements outlined in the CalGreen code and would therefore contribute its "fair share" to achieving California GHG reduction goals as outlined under option "A" by including Tier 2 EV charging, featuring all-electric design, and achieving at least a 15 percent reduction in VMT compared to the countywide average. Furthermore, because BAAQMD's GHG thresholds were developed to reflect the priority reduction areas outlined in Appendix D of the 2022 Scoping Plan, consistency with the requirements of option "A" would also mean that the project is consistent with the 2022 Scoping Plan's GHG reduction goals. The impact would be less than significant with mitigation incorporated.

b) Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?

Less than significant with mitigation incorporated. The 2022 Scoping Plan is the applicable plan adopted for the purpose of reducing GHG emissions. As discussed in Impact a) above, the project would not be consistent with the 2022 Scoping Plan. Implementation of Mitigation Measure GHG-1 would require the project to install Tier 2 EV charging infrastructure as required by the CalGreen code and would therefore contribute its "fair share" to achieving California GHG reduction goals as outlined under option "A" in Section 3.8.1 of the BAAQMD CEQA Guidelines. Consistency with the requirements of option "A" would also mean that the project is consistent with the 2022 Scoping Plan's GHG reduction goals. Therefore, the impact would be less than significant with mitigation incorporated.

3.10 HAZARDS AND HAZARDOUS MATERIALS

	ENVIRONMENTALISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
	Hazards and Hazardous Materials.				
a)	Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?			\boxtimes	
b)	Create a significant hazard to the public or the environment through reasonably foreseeable upset and/or accident conditions involving the release of hazardous materials into the environment?				
C)	Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?				\boxtimes
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?				
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?				
f)	Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?			\boxtimes	
g)	Expose people or structures, either directly or indirectly, to a significant risk of loss, injury, or death involving wildland fires?			\boxtimes	

3.10.1 Environmental Setting

The State Water Resources Control Board's (SWRCB) GeoTracker database along with the California Department of Toxic Substances Control's (DTSC's) Envirostor database provide a comprehensive list of the facilities and sites identified as meeting the "Cortese List" requirements pursuant to Government Code section 65962.5. The SWRCB GeoTracker database provides data relating to leaking underground storage tanks (LUST) and other types of soil and groundwater contamination, along with associated cleanup activities. In addition, the DTSC Envirostor database provides data related to hazardous materials spills and cleanups.

According to the GeoTracker database, no active hazardous materials sites are located within 0.5 mile of the project site (SWRCB 2024). Six hazardous material sites in the vicinity of the project site have been closed: a LUST cleanup site located at 414 Turney Street, a LUST cleanup site located at 10 Liberty Ship Way, a LUST cleanup site located at 30

Liberty Ship Way, a military UST site located at 2100 Bridgeway Boulevard, a military cleanup site located at 25 Liberty Ship Way, and a program cleanup site located at 2340 Marinship Way. The DTSC Envirostor database, however, shows that two active hazardous materials sites are located within 0.5 mile of the project site, including the Galilee Harbel Parcel 1 at 300 Napa Street and the South Pacific Division Laboratory at 25 Liberty Ship Way. Galilee Harbel Parcel 1 is listed as a voluntary cleanup site while the South Pacific Division Laboratory is listed as a state response site (DTSC 2024).

The closest school is the Bayside Martin Luther King Junior Academy Nevada Campus, which is located approximately 0.6 mile northwest of the project site. The nearest airport, the Marin County Airport, is located approximately 12 miles to the north. The project site is not within the boundaries of an airport land use plan area.

The Marin County Operation Area Emergency Operations Plan (EOP) addresses Marin County's planned response to emergency and disaster situations associated with natural and human-caused disasters. The EOP contains an evacuation plan for all areas of the County, which identifies evacuation routes within each County jurisdiction including the City of Sausalito. The routes that would be used in the event of an evacuation in the city include Bridgeway, Spencer Avenue, Alexander Avenue, Highway 101, Donahue Street, and Shoreline Highway. For people who have access to boats, evacuation could be potentially taken via Richardson's Bay. Other main thoroughfares in the city could also be used in the event of an evacuation.

The project site is within a local responsibility area (LRA) but is outside designated moderate, high, or very high Fire Hazard Severity Zones (FHSZs) in the LRAs (CAL FIRE 2024). The project site is located within one mile of a state responsibility area (SRA) designated as a very high FHSZ. The project site is also located within the Wildland Urban Interface (WUI) Zone as determined by SMFPD (SMFPD 2020).

3.10.2 Discussion

a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?

Less-than-significant impact. Commonly used hazardous substances associated with heavy construction equipment such as gasoline, diesel fuel, lubricating oil, grease, and solvents would be utilized during construction of the project. These materials are not considered acutely hazardous and are used routinely throughout urban environments for similar types of construction projects. These materials would be transported, used, disposed of, and handled in accordance with all applicable laws and regulations concerning the management, use and transport of hazardous materials. Applicable regulations include but are not limited to the federal Resource Conservation and Recovery Act, which includes requirements for hazardous solid waste management; and the DTSC Environmental Health Standards for the Management of Hazardous Waste (California Code of Regulations Title 22, Division 4.5), which include standards for generators and transporters of hazardous waste. Use of common hazardous substances for their intended purpose during construction would not pose a significant risk to the public or environment.

During project operations, hazardous materials that would be used for the maintenance of the residential structures and landscaped areas include chemical reagents, solvents, fuels, paints, cleansers, pesticides, and fertilizers. These materials would be similar to those currently used on the existing residential structures and on structures in other areas of the project vicinity. The management, use, storage, and transportation of such hazardous materials are subject to applicable laws and regulations.

Adherence to applicable laws, regulations, and plans would minimize risks associated with the routine transport, use, and disposal of hazardous materials. In addition, the Marin County Area Operations EOP outlines procedures to address evacuation, clean up, and communication protocols to protect community members in the event of a hazardous materials spill. Therefore, the proposed project would not create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials. The impact would be less than significant, and no mitigation is required.

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

Less than significant with mitigation incorporated. The project would involve demolishing all existing on-site structures. The existing on-site structures were constructed prior to the late 1980's, and therefore, may contain lead-based paint (LBP) and/or asbestos-containing materials. Demolition of these structures may have the potential to release lead particles and asbestos fibers into the air, where they could potentially pose a health risk to construction workers and the general public. Impacts would be potentially significant.

Mitigation Measure HAZ-1. Conduct Lead-Based Paint Survey

Prior to demolition of structures that may contain LBP, a comprehensive US Environmental Protection Agency or US Department of Housing and Urban Development level Lead-based Paint Survey shall be conducted. If any lead-based paint is identified, it shall be removed from the site in accordance with all applicable regulations, including Occupational Safety and Health Administration guidelines.

Mitigation Measure HAZ-2. Conduct Asbestos Survey

Prior to demolition, a complete Asbestos Hazard Emergency Response Act-level pre-demolition Asbestos Survey shall be conducted. A licensed asbestos abatement contractor shall be retained to abate identified asbestos-containing material in accordance with all applicable regulations.

Significance after Mitigation

Mitigation Measures HAZ-1 and HAZ-2 would require conducting an LBP survey and an asbestos survey prior to demolition. If LBP and asbestos materials are required to be removed in accordance with applicable regulation if they are identified during surveys, the implementation of Mitigation Measures HAZ-1 and HAZ-2 would reduce the impacts related to release of hazardous materials into the environment to a less-than-significant level. Therefore, the impact would be less than significant with mitigation incorporated.

c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?

No Impact. The nearest school, the Bayside Martin Luther King Junior Academy Nevada Campus, is located approximately 0.6 mile northwest of the project site. No existing or proposed schools are within one-quarter mile of the project site. Therefore, the project would not emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school. No impact would occur, and no mitigation is required.

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

Less-than-significant impact. As discussed in Section 3.9.1, review of the GeoTracker and Envirostor databases determined that two active hazardous materials sites are located on or within 0.5 mile of the project site. These include Galilee Harbel Parcel 1 at 300 Napa Street and the South Pacific Division Laboratory at 25 Liberty Ship Way. Galilee Harbel Parcel 1 is listed as a voluntary cleanup site while the South Pacific Division Laboratory is listed as a state response site (DTSC 2024). The project would replace the existing vacant buildings with two new multi-family buildings, and all activities related to the construction and operation of the project would take place within the project site. Therefore, the project would not be located on a site that is included on a list of hazardous materials sites compiled pursuant to Government Code section 65962.5. In addition, implementation of the project would not exacerbate conditions at the Galilee Harbor Parcel 1 or South Pacific Division Laboratory sites. The impact would be less than significant, and no mitigation is required.

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 airport to the project site is the Marin County Airport, which is located approximately 12 miles north of the project site. The project site is not within the area covered by the Marin County Airport Land Use Compatibility Plan and is located outside the 65 Community Noise Equivalent Level (CNEL) airport noise contour of this airport. In addition, the project site is not located within 2 miles of a public airport or in the vicinity of a known private airstrip. Therefore, the project would not result in airport safety hazards or excessive noise for people working in the project area. No impact would occur, and no mitigation is required.

f) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?

Less-than-significant impact. The project site would be served by the City of Sausalito Police Department and SMFPD, both of which are equipped to respond to an emergency on the site should the need occur. There are limited routes of access to and from the city; however, the project would not result in any temporary or permanent closures or other modifications of local roadways. The project would not obstruct evacuation routes during construction or operation. The impact would be less than significant, and no mitigation is required.

g) Expose people or structures, either directly or indirectly, to a significant risk of loss, injury, or death involving wildland fires?

Less-than-significant impact. The project is located in a WUI Zone, and the nearest SRA FHSZ is within one mile of the project site. Due to the project location within a WUI Zone, SMFPD has identified conditions of approval applicable to the project. SMFPD conditions of approval related to fire prevention include but not limited to the use of construction materials consistent with CBC and California Residential Code, preparation of a vegetation management plan, provision of a hydrant within 100 feet of the new structures, provision of fire sprinkler systems, provision of fire detection system, provision of fire lanes according to California Fire Code (CFC), and provision of defensible space in accordance with CFC and Local Ordinance Section 109.3.2. Compliance with SMFPD's conditions of approval would ensure that the project structures or residents would not be exposed to a significant risk of loss, injury, or death involving wildland fires. The impact would be less than significant, and no mitigation is required.

3.11 HYDROLOGY AND WATER QUALITY

	ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
	Hydrology and Water Quality. ould the project:				
a)	Violate any water quality standards or waste dis requirements or otherwise substantially degrad surface or groundwater quality?	-		\boxtimes	
b)	Substantially decrease groundwater supplies or interfere substantially with groundwater recharge that the project may impede sustainable ground management of the basin?	ge such			
C)	Substantially alter the existing drainage pattern site or area, including through the alteration of course of a stream or river or through the addit impervious surfaces, in a manner which would:	the			
	i) Result in substantial on- or offsite erosion or si	Itation;		\boxtimes	
	 Substantially increase the rate or amount or surface runoff in a manner which would res flooding on- or offsite; 		\boxtimes		
	 iii) Create or contribute runoff water which woule exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted run 		\boxtimes		
	iv) Impede or redirect flood flows?				\boxtimes
d)	In flood hazard, tsunami, or seiche zones, risk re of pollutants due to project inundation?	elease			\boxtimes
e)	Conflict with or obstruct implementation of a w quality control plan or sustainable groundwater management plan?			\boxtimes	

3.11.1 Environmental Setting

SURFACE WATER

The City of Sausalito and the project site are located within the Richardson Bay Watershed. A watershed is the geographic area draining into a river system, ocean, or other body of water and includes the receiving waters. Watersheds are usually bordered and separated from other watersheds by mountain ridges or other naturally elevated areas. The creeks and streams in Richardson Bay Watershed drain to Richardson Bay, a shallow, protected, biologically rich wildlife preserve. Richardson Bay is considered one of the most pristine estuaries on the Pacific Coast despite its urbanized periphery.

STORMWATER DRAINAGE

Drainage at the project site currently occurs via overland flow. Based on the site topography, stormwater drains primarily to the north and east toward Bridgeway Boulevard. The City of Sausalito Department of Public Works maintains a storm drain along Bridgeway Boulevard that expands to 30 inches in diameter prior to discharge via an outfall at the corner of the project site.

GROUNDWATER

The City of Sausalito and the project site are not located within a designated groundwater basin (DWR 2024). Marin Municipal Water District (MMWD) provides potable water to the City of Sausalito via local Marin reservoirs and the Russian River. Groundwater is not used as a primary water source in the city.

According to the geotechnical report prepared for the project, groundwater was encountered at depths ranging from 3 to 15 feet below ground surface (Earth Systems Pacific 2018). Fluctuations in groundwater levels may occur due to variations in rainfall and possibly due to the condition of the underground storm and sewer system. Groundwater likely would be encountered during construction and dewatering activities may be required.

FLOOD, TSUNAMI, AND SEICHE

According to the Federal Emergency Management Agency Flood Insurance Rate Map No. 06041C0526E, no portion of the project site is within the FEMA 100-year floodplain (FEMA 2016). The project site is not within the area susceptible to sea level rise (BCDC 2024). The project site is not within a tsunami hazard area (CGS 2024). In addition, the project site is not in proximity to an enclosed body of water that is susceptible to seiche.

3.11.2 Discussion

a) Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or groundwater quality?

Less-than-significant impact. Construction activities could potentially violate applicable water quality standards by introducing pollutants to stormwater runoff. There are two primary ways that construction activities could adversely affect water quality: ground disturbance and pollutant spills or leaks. Ground disturbance such as vegetation removal, compaction, grading, and temporary soil stockpiling could potentially increase sediment levels in stormwater runoff by eroding soils that have been loosened or newly exposed by construction activity. Materials that could spill or leak during construction include diesel fuel, gasoline, lubrication oil, cement slurry, hydraulic fluid, antifreeze, transmission fluid, lubricating grease, and construction-related trash and debris. The use of these materials would be limited to the minimum necessary to fuel vehicles, power equipment, and complete activities. Improper management of hazardous materials could result in accidental spills or leaks, which could locally contaminate stormwater runoff.

The project would involve approximately 0.58 acre of ground disturbance. Projects that disturb one or more acres are required to comply with the NPDES General Construction Permit and prepare a SWPPP that incorporates BMPs to control sedimentation, erosion, and contaminated runoff during construction. Since the project is approximately 0.58 acre in size, it would not be subject to this requirement. However, an erosion control plan has been prepared for the project pursuant to Chapter 11.17 of the Sausalito Municipal Code (Sheet C2 of Appendix A). The erosion control plan identifies the locations for fiber roll installation around the project site. The erosion control plan also provides details on the size and placement of fiber rolls to ensure that they are installed properly to prevent soil erosion and sediment discharge and prevent stormwater runoff. Although construction activities have the potential to adversely affect water quality, implementation of the project erosion control plan would ensure that potential construction-related impacts on water quality are avoided or substantially minimized.

The operation of the project is subject to the requirements of the Waste Discharge Requirements (WDRs) for Stormwater Discharges from Small Municipal Separate Storm Sewer Systems (Phase II Permit). To meet the requirements of the Phase II Permit, the project must implement post-construction stormwater management controls for new development and redevelopment projects. The project would include installation of five bio-retention basins on-site to retain and treat stormwater and would include installation of storm drain lines that would tie into existing City storm drain infrastructure (see Sheet C1 of Appendix A). Implementation of the project erosion control plan and post-construction stormwater management controls would ensure that the project would not violate water quality standards or waste discharge requirements. The impact would be less than significant, and no mitigation is required.

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

No impact. The project site is not located within a designated groundwater basin, and MMWD, which provides potable water to the City of Sausalito, obtains its water supply from local reservoirs and the Russian River. Groundwater is not used for potable water supply in the city. Therefore, the project would not affect groundwater resource supply and/or recharge. There would be no impact, and no mitigation is required.

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 on- or offsite erosion or siltation;

Less-than-significant impact. No streams or rivers are located in the vicinity of the project site. Therefore, the project would not alter the existing drainage pattern through alteration of the course of a stream or river. During project construction, drainage patterns on the project site would be temporarily altered due to grading activities. As discussed in Impact a) above, a project-specific erosion control plan has been prepared and would be implemented during construction, which would reduce the potential for construction-related erosion and siltation during project construction.

During operation, the project would result in an increase in impervious surfaces creating higher runoff volume, which could alter drainage pattern on-site. The project would be required to implement post-construction stormwater management controls, including installation and operation of a stormwater collection and treatment systems to erosion control and site stabilization measures. Specifically, the project would include installation of five bio-retention basins throughout the project site to ensure that sediment would be retained on-site during and after rain events (see Sheet C-1 of Appendix A). Therefore, substantial erosion and siltation would not occur during operations.

The project would not substantially alter the existing drainage pattern of the project site in a manner that would result in substantial erosion or siltation. This impact would be less than significant, and no mitigation is required.

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

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 with mitigation incorporated. During construction, the existing structures would be demolished and removed. Following grading, additional excavation would be required to prepare the site for foundation and building construction. The site would be graded to establish appropriate building footing and establish site grade to direct runoff into existing stormwater systems. Project construction would not increase impervious surfaces on-site that would increase runoff or significantly increase stormwater flows to existing stormwater systems. The impacts associated with construction would be less than significant.

Once constructed, the project would result in an increase in impervious surfaces on-site and therefore has the potential to generate increased runoff. Rapid transport of runoff over impermeable surfaces could result in elevated peak flows, which could result in flooding on- or off-site and could exceed the capacity of storm drain. The impacts associated with operation would be potentially significant.

Mitigation Measure HYDRO-1. Conduct Hydrology-Hydraulics Study

Prior to the issuance of a grading or building permit, a hydrology hydraulics study shall be submitted to the City for review and approval. The hydrology-hydraulics study shall demonstrate that the proposed on-site bio-retention and storm drain system is designed such that there shall be no increase in peak flow rate in stormwater runoff when compared with the pre-project condition.

Significance after Mitigation

Mitigation Measure HYDRO-1 requires that a hydrology-hydraulics study be submitted and approved by the City prior to the issuance of a grading or building permit which demonstrates that the project 's on-site storm drain system is designed such that no increase in peak flow rate in stormwater runoff will result from the project when compared with the pre-project condition. The impact to the storm drainage system would be less than significant with mitigation incorporated.

iv) Impede or redirect flood flows?

No impact. As discussed in Section 3.10.1, the project site is outside of FEMA 100-year floodplain (FEMA 2016). The project is also not located in an area at risk from sea level rise (BCDC 2024). The project would not place new structures within a flood hazard area. Therefore, the project would have no impact related to impeding or redirecting flood flows, and no mitigation is required.

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

No impact. The project site is not within a flood or tsunami hazard area and is not in proximity to an enclosed waterbody that could generate a seiche (FEMA 2016, CGS 2024). Also, the project is not in an area at risk from sea level rise (BCDC 2024, FEMA 2016). Therefore, the project would have no impact related to the release of pollutants due to project inundation, and no mitigation is required.

e) Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?

Less-than-significant impact. The project site is under the jurisdiction of the San Francisco Bay Regional Water Quality Control Board (RWQCB). The Water Quality Control Plan for the San Francisco Bay Basin (Basin Plan) contains the region's water quality regulations and programs for implementing these regulations. As discussed in Impact a) above, the project would not substantially degrade water quality with the implementation of the project-specific erosion control plan, installation of bio-retention basins, and connection of proposed storm drain lines to the existing City storm drain infrastructure. Therefore, the project would not conflict with the Basin Plan.

The project site is not within the boundaries of a groundwater basin mapped by the California Department of Water Resources. Therefore, there are no sustainable groundwater management plans applicable to the project site. Also, the City of Sausalito does not use groundwater as a primary water source. Thus, the project would not substantially decrease groundwater supplies or interfere with groundwater recharge.

In summary, the project would not conflict with or obstruct implementation of the Basin Plan because the project would comply with all applicable permits and regulations governing the protection of water quality. Additionally, the project would not result in the unsustainable consumption of groundwater resources or otherwise interfere with groundwater recharge. Based on the above discussion, the proposed project would not conflict with or obstruct the implementation of a water quality control plan or sustainable groundwater management plan. The impact would be less than significant, and no mitigation is required.

3.12 LAND USE AND PLANNING

ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
XI. Land Use and Planning. Would the project:				
a) Physically divide an established community?				\boxtimes
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?				

3.12.1 Environmental Setting

The project site encompasses approximately 0.58 acre at 1751-1757 Bridgeway Boulevard and 160 Filbert Avenue in the City of Sausalito, California. The site consists of four residential structures that have been vacant for several years and are in a deteriorated condition. The site is designated for High Density Residential uses in the City's General Plan and is zoned as Multiple Family Residential (R-3) (City of Sausalito 2021; Marin County 2024).

3.12.2 Discussion

a) Physically divide an established community?

No impact. The project would replace the existing vacant residential buildings with 19 residential units in two buildings. Construction and operation of the project would be confined to the project site. The project would not involve features such as new roadways, new easements through established neighborhoods, or permanent street or sidewalk closures that would physically divide the surrounding established community. Therefore, the project would not physically divide an established community. No impact would occur, and no mitigation is required.

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?

Less-than-significant impact. The project site is designated for High Density Residential uses in the City's General Plan and is zoned as Multiple Family Residential (R-3) (City of Sausalito 2021; Marin County 2024). As such, the project is consistent with residential use permitted under the zoning and land use designations for the site. The building height and FAR limits in the R-3 zoning district are 32 feet and 0.8, respectively. The project would include maximum building heights of 38 feet 9 inches for Building 1 and 34 feet 11 inches for Building 2. The FAR of the project would be approximately 1.0. As discussed in Section 2.3, because the project would provide more than 20 percent of its housing units for affordable households, the project is eligible for two incentives or concessions under Government Code Section 65915(d)(2). Incentives and concessions may include a reduction in site development standards or a modification of zoning code requirements or architectural design requirements. Concessions of City development standards necessary to accommodate the density bonus for the project include increasing the building height limit (from 32 feet to 38 feet 9 inches and 34 feet 11 inches) and FAR (from 0.8 to 1.0). Although the building heights and FAR of the project would exceed the maximum building height and FAR permitted in the R-3 zoning district, the project would use two density bonus concessions to request modification in development standards related to height and FAR. With the adoption of these concessions, the project would be consistent with the City's development standards for the project site. Therefore, the project would not 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. The impact would be less than significant, and no mitigation is required.

3.13 MINERAL RESOURCES

	ENVIRONMENTALISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
	. Mineral Resources. build the project:				
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?				\boxtimes
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?				\boxtimes

3.13.1 Environmental Setting

Eight sites in Marin County have been "designated" by the California State Department of Conservation Division of Mines and Geology as having significant mineral resources for the North Bay region; however, none of these sites are located within the City of Sausalito (Marin County 2005). The City of Sausalito General Plan does not identify locally important mineral resource sites (City of Sausalito 2021).

3.13.2 Discussion

- 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?
- 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?

No impact. The City of Sausalito does not contain a known mineral resource that is significant in the region or locally important (Marin County 2005; City of Sausalito 2021). No impact to mineral resources would occur, and no mitigation is required.

3.14 NOISE

	ENVIRONMENTALISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
	I.Noise. buld the project result in:				
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, or a substantial temporary or permanent increase in noise levels above existing ambient levels that could result in an adverse effect on humans?				
b)	Generation of excessive groundborne vibration or groundborne noise levels?		\boxtimes		
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?				

3.14.1 Environmental Setting

Prior to discussing the environmental setting and applicable noise standards, the following definitions of technical noise terms referenced throughout this section are provided.

- ► Equivalent Continuous Sound Level (L_{eq}): L_{eq} represents an average of the sound energy occurring over a specified period. In effect, L_{eq} is the steady-state sound level containing the same acoustical energy as the time-varying sound level that occurs during the same period (Caltrans 2013: 2-48). For instance, the 1-hour equivalent sound level, also referred to as the hourly L_{eq}, is the energy average of sound levels occurring during a 1-hour period and is the basis for noise abatement criteria used by the Caltrans and Federal Transit Administration (FTA) (Caltrans 2013:2-47; FTA 2018).
- ► Maximum Sound Level (L_{max}): L_{max} is the highest instantaneous sound level measured during a specified period (Caltrans 2013: 2-48; FTA 2018).
- Day-Night Level (L_{dn}): L_{dn} is the energy average of A-weighted sound levels occurring over a 24-hour period, with a 10-decibel (dB) "penalty" applied to sound levels occurring during nighttime hours between 10:00 p.m. and 7:00 a.m. (Caltrans 2013: 2-48; FTA 2018).
- ► Community Noise Equivalent Level (CNEL): CNEL is the energy average of the A-weighted sound levels occurring over a 24-hour period, with a 10-dB penalty applied to sound levels occurring during the nighttime hours between 10:00 p.m. and 7:00 a.m. and a 5-dB penalty applied to the sound levels occurring during evening hours between 7:00 p.m. and 10:00 p.m. (Caltrans 2013: 2-48).
- ▶ Vibration Decibels (VdB): VdB is the vibration velocity level in decibel scale (FTA 2018: Table 5-1).
- ▶ Peak Particle Velocity (PPV): PPV is the peak signal value of an oscillating vibration waveform. Usually expressed in inches/second (FTA 2018: Table 5-1).

EXISTING CONDITIONS

The area surrounding the project site is developed with residential, commercial, and public land uses. Office land uses, including the Southern Marin Fire District building, are located north of the project site across from Bridgeway and commercial land uses including a restaurant and convenience store are located approximately 1,000 feet west of the project site. Residential land uses are located to the east, south, and west of the project site. The project site and surrounding area experience noise associated with these surrounding land uses as well as noise from traffic on local roadways and the distant Highway 101. Based on a review of aerial photography, the predominant source of noise in the vicinity of the project site is traffic on Bridgeway. The northern frontage of the project site is located adjacent to Bridgeway, a four-lane divided major arterial roadway with posted speeds of 30 miles per hour within the vicinity of the project site. According to the City of Sausalito General Plan, the project site is located within the 60 dBA CNEL noise contour for Bridgeway (City of Sausalito 2021: HS-24).

Existing nearby sensitive receptors include the residences surrounding the project site. Three nearby sensitive receptors were identified for this analysis. The first identified receptor is a multi-family residence located at 150 Filbert Avenue, approximately 10 feet east of the project site. The second identified receptor is a residential building located at 1763 Bridgeway, approximately 10 feet west of the project site. The third identified receptor is a single-family residence located at 1741 Bridgeway, approximately 12 feet east of the project site.

APPLICABLE NOISE STANDARDS

Federal Transit Administration

FTA Division of Environmental Analysis developed the *Transit Noise and Vibration Impact Assessment Manual*, which provides guidance to engineers, planners, and consultants in assessing vibration from construction, operation, and maintenance of projects. To address the human response to ground vibration, FTA has set guidelines for maximum-acceptable vibration criteria for different types of land uses. These guidelines are presented in Table 3.13-1. FTA has also established construction vibration damage criteria, shown in Table 3.13-2.

		•	
Land Use Category	GVB Impact Levels (VdB re 1 micro-inch/second) Frequent Events ¹	GVB Impact Levels (VdB re 1 micro-inch/second) Occasional Events ²	GVB Impact Levels (VdB re 1 micro-inch/second) Infrequent Events ³
Category 1: Buildings where vibration would interfere with interior operations.	65 ⁴	65 ⁴	65 ⁴
Category 2: Residences and buildings where people normally sleep.	72	75	80
Category 3: Institutional land uses with primarily daytime uses.	75	78	83

Notes: VdB re I microinch/second = vibration referenced to 1 microinch/second and based on the root mean square (RMS) velocity amplitude.

¹ "Frequent Events" is defined as more than 70 vibration events of the same source per day.

² "Occasional Events" is defined as between 30 and 70 vibration events of the same source per day.

- ³ "Infrequent Events" is defined as fewer than 30 vibration events of the same source per day.
- ⁴ This criterion is based on levels that are acceptable for most moderately sensitive equipment such as optical microscopes. Vibration-sensitive manufacturing or research would require detailed evaluation to define acceptable vibration levels.

Source: FTA 2018: 123-126.

Land Use Category	PPV, in/sec
Reinforced-concrete, steel or timber (no plaster)	0.5
Engineered concrete and masonry (no plaster)	0.3
Non-engineered timber and masonry buildings	0.2
Buildings extremely susceptible to vibration damage	0.12

Table 3.13-2 FTA Construction Damage Vibration Criteria

Notes: PPV in/sec = peak particle velocity inches per second

Source: FTA 2018.

In addition to vibration criteria, FTA has also established construction noise criteria based on the land use type affected by noise and depending on whether construction would occur during the daytime or nighttime. The FTA criteria are as follows:

- ► Residential: 90 dBA L_{eq} (day) and 80 dBA L_{eq} (night)
- ► Commercial/Industrial: 100 dBA L_{eq} (day and night)

Federal Interagency Committee on Noise

The Federal Interagency Committee on Noise (FICON) established criteria for the impact of increases in ambient noise levels. Specifically, a noise level increase of 5.0 dB or greater, would typically be considered to result in increased levels of annoyance where existing ambient noise levels are less than 60 dB. Within areas where the ambient noise level ranges from 60 to 65 dB, increased levels of annoyance would be anticipated at increases of 3 dB, or greater. Increases of 1.5 dB, or greater, could result in increased levels of annoyance in areas where the ambient noise level exceeds 65 dB. The rationale for the FICON recommended criteria is that, as ambient noise levels increase, a smaller increase in noise resulting from a project is sufficient to cause a significant increase in response to noise (FICON 1992).

California Building Code Sound Transmission Standards

Noise within habitable units that is attributable to external sources is regulated by the California Building Standards codified in CCR, Title 24, Part 2, Section 1207. These standards are enforceable at the time of construction or during occupancy and apply to habitable units with common interior walls, partitions, and ceilings or those adjacent to public areas such as halls, corridors, stairways, and service areas. Under these standards the interior noise levels attributable to exterior sources shall not exceed 45 dB in any habitable room. The noise metrics used to measure these levels can be L_{dn}) or CNEL, consistent with the local general plan. Under California PRC Section 25402.1(g), all cities and counties in the state are required to enforce the adopted California Building Code, including these standards for noise in interior environments.

City of Sausalito General Plan

The Health and Safety Element of the City of Sausalito General Plan sets forth policies to assess and control environmental noise. The Health and Safety Element includes a noise and land use compatibility table to identify appropriate land uses at various levels of noise exposure. Ambient noise levels of up to approximately 55 dBA L_{dn} or CNEL are considered normally acceptable for residential areas and ambient noise levels between approximately 60 and 70 dBA L_{dn} or CNEL are considered conditionally acceptable (City of Sausalito 2021: Table 7-4). The City has also established interior noise guidelines for various land uses. For residential uses the maximum interior noise level is 45 dBA L_{dn} or CNEL. New development is required to incorporate design elements and sound insulation features to meet acceptable interior noise levels.

City of Sausalito Municipal Code

Chapter 12.16, Noise Control, of the Sausalito Municipal Code regulates noise within the city. The following sections of Chapter 12.16 are applicable to the project.

Section 12.16.040 Ambient Base Noise Level

Section 12.16.040 establishes daytime and nighttime ambient base noise levels for different zones. For R3 zones, between 10:00 p.m. and 7:00 a.m., the ambient base noise level is 50 dBA CNEL and between 7:00 a.m. to 10:00 p.m., the ambient base noise level is 55 dBA CNEL. However, as detailed above, the project site is located within the Bridgeway 60 dBA CNEL noise contour; thus, 60 dBA CNEL is used as the ambient base noise level in this analysis.

Section 12.16.050 Noise Regulations Generally

Section 12.16.050 of the Municipal Code establishes standards that should be considered when determining whether a violation of the provisions of Chapter 12.16 exists. These standards include:

- time of the day or night the noise occurs
- duration of the noise
- level of the noise
- ▶ intensity of the noise
- whether the nature of the noise is usual or unusual
- whether the origin of the noise is natural or unnatural
- level and intensity of the background noise if any
- ▶ proximity of the noise to residential sleeping facilities
- nature and zoning of the area within which the noise emanates
- density of the inhabitation of the area within which the noise emanates
- ▶ whether the noise is recurrent, intermittent, or constant
- ▶ whether the noise is produced by a commercial or noncommercial activity

Section 12.16.130 Machinery, Equipment, Fans, and Air Conditioning

Section 12.16.130 of the Municipal Code prohibits the operation of any machinery, equipment, air conditioning apparatus, or similar mechanical device that would cause the noise level at the property line of any property to exceed the ambient base noise level by more than 5 dB.

Section 12.16.140 Time Restrictions on Operating Construction Devices in Residential Zones

Section 12.16.140 establishes time restrictions on construction equipment. Specifically, the operation of construction, demolition, excavation, alteration, or repair devices and equipment shall only take place Monday through Friday between 8:00 a.m. and 6:00 p.m. and Saturdays between 9:00 a.m. and 5:00 p.m. Construction on Sundays and holidays recognized by the City of Sausalito is prohibited.

3.14.2 Discussion

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, or a substantial temporary or permanent increase in noise levels above existing ambient levels that could result in an adverse effect on humans?

Less-than-significant impact. This discussion includes an analysis of short-term construction noise and long-term operational noise. Because noise standards are often regulated differently, depending on the source (e.g., stationary source, transportation source), it follows that each source would be evaluated using the appropriate adopted noise source and associated methodology to analysis. Thus, significance is concluded for this resource topic based on the type of noise impact (temporary or permanent) that could occur from project implementation.

Construction Noise (Temporary)

To assess potential short-term (construction-related) noise impacts, sensitive receptors and their relative exposure were identified. Project-generated construction source noise levels were determined based on methodologies, reference emission levels, and usage factors from the FTA *Guide on Transit Noise and Vibration Impact Assessment* methodology (FTA 2018) and FHWA's *Roadway Construction Noise Model User's Guide* (FHWA 2006). Reference levels for noise emissions for specific equipment or activity types are well documented and the usage thereof common practice in the field of acoustics. The City of Sausalito has not adopted noise limits for construction activities, thus the FTA residential daytime construction noise threshold of 90 dBA L_{eq} would be applicable in this analysis.

Construction is typically a temporary activity and noise from construction ceases once construction is complete. Construction noise levels vary from hour to hour and day to day, depending on the equipment in use, the operations being performed, and the distance between the noise source and receiver. Construction of the project would include the demolition of the existing residential structures, relocation of a sewer line, and construction of two separate fourlevel buildings. In accordance with Section 12.16.140 of the Sausalito Municipal Code, construction activity would only take place Monday through Friday between 8:00 a.m. and 6:00 p.m. and Saturdays between 9:00 a.m. and 5:00 p.m.

Construction noise levels are influenced by many variables including the specific equipment types, size of equipment used, percentage of time each piece is in operation, and number of pieces that would operate on the project site. Construction activities associated with the project would not require blasting or pile driving. Typical heavy equipment that could be used during project construction, such as a dozer, can generate maximum noise levels of 85 dBA L_{max} at 50 feet (FTA 2018: 176). Specific timing of each construction phase and activity is not currently available, and therefore this analysis conservatively assumed that three of the noisiest pieces of equipment (i.e., one grader, one dozer, and one excavator) could operate simultaneously near each other during the site preparation/grading phase.

This analysis is based on the concept that construction equipment moves about a construction site, with some pieces operating closer to the property edge—and subsequently nearer to sensitive receivers—while others are operating on another portion of the site, further from the same receiver. Propagating noise levels from the center of the construction site is appropriate in the field of acoustics, especially when evaluating construction noise, to account for the random pattern of noise-generating equipment moving about the site that generates different noise levels throughout the day. Thus, to better estimate noise exposure from the center of construction activities (i.e., the acoustical center). Noise levels estimated from the center of the activities would account for the random movement of equipment and that the movement would generate different noise levels throughout the day. Noise levels were estimated to be as high as 84.2 dBA L_{eq} and 88.2 dBA L_{max} at the nearest sensitive receptors, approximately 60 feet from the center of construction activity. See Appendix F for modeling details. Thus, estimated worst-case construction noise levels would be below FTA-recommended levels of 90 dBA L_{eq} at nearby residential receptors.

Construction activities would temporarily increase the ambient noise environment at nearby receptors, especially during demolition, site preparation/grading, and trenching. After these phases are completed, subsequent construction phases would require less heavy-duty equipment and would tend to generate lower noise levels than during the demolition, preparation, grading, and trenching phases. Subsequent building construction would not involve the use of heavy earthmoving equipment. Sporadic noise from the use of compressors, pumps, and hand tools may be heard, but it is anticipated that it would not result in substantial noise level increase to nearby homes during the building construction phase. Furthermore, in accordance with Section 12.16.140 of the Municipal Code, construction activity would occur during the daytime when people are less likely to be disturbed or awakened. Because the substantial noise increases related to construction would be short-term and temporary and because project construction would comply with the hours specified in the Sausalito Municipal Code, noise impacts during construction would be less than significant, and no mitigation is required.

Operational Noise (Permanent)

The project would result in long-term operational stationary source noise associated with residential land uses (e.g., heating ventilation and cooling [HVAC] systems) and mobile source noise associated with project-generated vehicle trips, as discussed separately below.

Stationary Noise

The project would include the implementation of mechanical equipment (i.e., HVAC units) which is a characteristic noise source of residential areas. Detailed information regarding the stationary equipment models to be installed is not currently available. Noise levels from HVAC equipment vary depending on the unit efficiency, size, and location, but generally range from 60 to 70 dBA L_{eq} at 3 feet (Carrier 2022). As shown in Figure 5 in Chapter 2, "Project Description," mechanical equipment would be located on the roofs of each building, setback from the building edge, and include a physical barrier that would break the line-of-sight between the source and the receptor. Location of the source in proximity to a receptor is a primary consideration as noise attenuates at a rate of 6 dB per doubling of distance from the source; thus, locating a noise source further away from a receptor substantially reduces noise levels. In addition, physical barriers (e.g., roof parapets, equipment enclosure) that break the line-of-sight between the source and the receptor can achieve at least a 5 dB noise reduction (FTA 2018: 16). Additionally, in accordance with Section 12.16.130 of the Sausalito Municipal Code, the operation of any mechanical equipment that would increase the ambient base noise level at the property line by more than 5 dB would be prohibited. For these reasons, noise from mechanical equipment would not result in a substantial noise increase over existing conditions.

Traffic Noise

Vehicle trips associated with the project would include trips generated by new residents and potential visitors. These trips would increase average daily trips and thus increase traffic noise levels along affected roadways. According to the circulation study prepared by Parametrix, the project would generate 128 daily trips (Parametrix 2024). The project site is located within the Bridgeway 60 dBA CNEL noise contour (City of Sausalito 2021: Table 7-3). Thus, in accordance with FICON noise criteria, a traffic noise increase of 3 dB or greater would be considered substantial. Generally, a doubling of a noise source (e.g., twice as much traffic) is required to result in an increase of 3 dB (Caltrans 2013). According to the City of Sausalito 2020: 8). Therefore, project-generated trips would be negligible in comparison with the existing traffic on study area roads and would not result in a substantial increase (i.e., +3 dB) in traffic noise.

Summary

As detailed above, noise levels from construction activities would be as high as 84.2 dBA L_{eq} and 88.2 dBA L_{max} at the nearest sensitive receptors, and thus, would not exceed the FTA residential daytime construction noise standard of 90 dBA L_{eq} . Additionally, all construction activity would comply with Section 12.16.140 of the Municipal Code, which would ensure that construction activity would occur during the daytime when people are less likely to be disturbed or awakened. Therefore, construction noise would not result in a substantial increase in noise during sensitive times of day that would permanently adversely affect sensitive receptors. Regarding operational noise, HVAC operations would not result in an increase in noise at off-site receptors due to distance and barriers in the line-of-sight between the equipment and nearby receptors. Finally, the project would not result in a doubling of traffic along Bridgeway, and thus would not result in a substantial increase (i.e., +3 dBA) in traffic noise. For these reasons, this impact would be less than significant, and no mitigation is required.

b) Generation of excessive groundborne vibration or groundborne noise levels?

Less than significant with mitigation incorporated. Vibration levels generated by construction activities would vary depending on distance from the source, soil conditions, construction methods, and the equipment used. Project construction would not involve the use of ground vibration-intensive activities such as pile driving or blasting. The pieces of construction equipment that would be used during project construction, such as dozers and graders, do not generate substantial levels of ground vibration that could result in structural damage, except at extremely close distances (i.e., within at least 10 feet of activity). Construction activity would take place during daytime hours (i.e., Monday through Friday between 8:00 a.m. and 6:00 p.m. and Saturdays between 9:00 a.m. and 5:00 p.m.) in accordance with the Sausalito Municipal Code. Thus, any vibration activity that would result from project construction would not occur during evening or nighttime hours, thereby reducing potential vibration impacts (i.e., annoyance) to nearby receptors during more sensitive hours of the day.

Vibration Annoyance

To address the human response (i.e., human annoyance) to ground vibration, the FTA has established guidelines for maximum-acceptable vibration impact criteria for different types of land uses. As shown in Table 3.13-1, the FTA recommends a maximum acceptable level of 80 VdB with respect to human response for residential uses for infrequent events (FTA 2018: 126). The most vibration-intensive piece of equipment that could be used during project construction is a vibratory roller. Based on FTA's recommended procedure for applying propagation adjustments, vibration levels from the use of a vibratory roller could exceed the FTA threshold of 80 VdB within 73 feet of a residence. The nearest residences are located along Bridgeway approximately 10 feet east and west of the project site. Therefore, the FTA threshold for human response would be exceeded at these residences.

The FTA guidance for maximum acceptable VdB levels is primarily concerned with sleep disturbance in residential areas, which can be avoided by keeping exposures at or below 80 VdB during typical sleeping hours. As described above, construction vibration activity would occur during typical daytime hours (i.e., between 8:00 a.m. and 6:00 p.m. Monday through Friday and between 9:00 a.m. and 5:00 p.m. on Saturday), when people are generally awake and would be less sensitive to vibration impacts. Thus, vibration activity would not occur during nighttime hours, thereby reducing potential vibration impacts to nearby sensitive receptors. Impacts would be less than significant; no mitigation is required.

Structural Damage

The FTA threshold for structural damage to non-engineered timber and masonry buildings is 0.20 in/sec PPV (Table 3.13-2). Based on the FTA recommended procedure for applying a propagation adjustment to the reference levels, vibration from the use of a vibratory roller would exceed the threshold of significance of 0.20 in/sec for structural damage within 26 feet of construction vibratory roller equipment. As detailed above, the nearest structures are residences located approximately 10 feet from the project site. Therefore, construction vibration would result in the potential for structural damage. Impacts would be potentially significant.

Mitigation Measure NOI-1: Reduce Construction-Related Vibration

Prior to commencing construction activities, the project applicant shall retain an acoustic professional to prepare a vibration control plan that incorporates, at a minimum, the following best practices into the construction scope of work and specifications to reduce the impact of temporary construction-related vibration on nearby vibration-sensitive land uses:

- Avoid the use of vibratory rollers, jackhammers, or any other impulsive/vibratory equipment within 100 feet of
 residential uses or any occupied structure; or use alternative equipment/construction methods that generate less
 vibration.
- > Select construction methods that do not involve impact and impulsive equipment, where possible.
- Operate earthmoving equipment on the construction site as far away from vibration sensitive uses as possible
- Phase demolition, earthmoving, and ground-impacting operations so as not to occur concurrently, and in no circumstance shall heavy-duty impact and impulsive equipment be used during nighttime hours, established by the City of Sausalito Municipal Code.
- ► In all cases, regardless of the construction methods and equipment used and construction scheduling and phasing, the vibration control plan shall be implemented by the construction contractor, and the plan, based on finalized construction work plans, shall be verified by the acoustic professional either through on-the-ground vibration monitoring during construction activities, or based on the construction work plan and specific equipment/methods to be used. At any time that FTA vibration standards are exceeded (e.g., 80 VdB or 0.2 PPV in/sec) at nearby structures, construction activity must be halted until alternative methods that would reduce vibration levels are implemented.

The vibration control plan shall be approved by the City and implemented by the construction contractor during project construction.

Significance after Mitigation

Implementation of Mitigation Measure NOI-1 would require alternative construction activities to reduce vibration impacts and a vibration control plan that would ensure excessive vibration would not occur at nearby receivers and structures. Therefore, impacts would be less than significant with mitigation incorporated.

Operational Vibration

Implementation of the project would not introduce any major sources of long-term or permanent ground vibration. Additionally, no major stationary sources of groundborne vibration (e.g., railroad lines) are located within the vicinity of the project site. For these reasons, the project would not result in long-term operational vibration impacts. Impacts would be less than significant; no mitigation is required.

Summary

Based on the discussion above, implementation of the project would not result in significant impacts related to vibration annoyance and operational vibration. However, based on the reference vibration levels and the vibration modeling conducted, construction activity that includes the use of a vibratory roller would exceed recommended vibration levels at several nearby structures. Vibration impacts to structures would be reduced to a less-than-significant level through implementation of Mitigation Measure NOI-1. Therefore, the impacts would be less than significant with mitigation incorporated.

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?

Less-than-significant impact. The project site is not located within 2 miles of a public airport or public use airport. The Marin County Airport¹ is located approximately 12 miles north of the project site, and the nearest major airports are San Francisco International Airport and Oakland International Airport, located approximately 17 miles from the project site. Therefore, the project site is not located within two miles of a public airport and would not expose residents to excessive noise levels due to aircraft operations. There is a helipad and seaplane facility located on Redwood Highway Frontage Road, approximately 1.6 miles northwest of the project site. Although aircraft overflights associated with this facility could occasionally be heard, the project site is not located in an area that would expose residents to excessive noise levels due to aircraft operations. This impact would be less than significant, and no mitigation is required.

¹ The Marin County Airport (Gnoss Field) serves as a reliever airport to the greater San Francisco Bay Area, shifting air traffic congestion away from larger airports with commercial airline flights. Airport users vary from daily flights for business people or flight training, to occasional trips for personal travel or special services of a government agency.

3.15 POPULATION AND HOUSING

ENVIRONMENTALISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
XIV. Population and Housing. Would the project:				
 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)? 				
b) Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?				

3.15.1 Environmental Setting

The population of City of Sausalito in 2020 was 7,114 persons, an increase of approximately 0.8 percent or 53 people since 2010. This increase occurred in the first half of 2010 to 2015, with the population increasing from 2010 to 2015 by 4.3 percent to 7,368 persons, then declining to 7,114 in 2020. During the previous decade (2000 and 2010), the City's population declined by 3.7 percent, or 269 people, resulting in an annual change of -0.4 percent (City of Sausalito 2023). Table 3.14-1 summarizes the population statistics in the city between 2000 and 2020.

	2000	2010	2015	2020
Population	7,330	7,061	7,368	7,114
Percent (%) Change	-	-3.7%	4.3%	-3.4%
Annual Percent (%) Changer	-	-0.4%	0.9%	-0.7%

Table 3.14-1 City of Sausalito Population Statistics (2000 – 2020)

Source: City of Sausalito 2023.

The total population of the City of Sausalito was estimated to be 6,856 residents in January 2024. The same year it was also estimated that there were approximately 6,843 households and 4,443 total housing units in the city with approximately 1.71 persons per household on average (DOF 2024). The proposed 19-unit development on the project site is included in the City's 2023-2031 Housing Element (City of Sausalito 2023).

3.15.2 Discussion

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)?

Less-than-significant impact. The project would replace the existing vacant residential buildings with two new buildings consisting of 19 residential units. It was estimated that the average household size in the city was approximately 1.71 persons per household in January 2024 (DOF 2024). When applying the average household size to the project, the project would house approximately 33 residents during operation. The population of Sausalito was estimated at 6,856 in January 2024 (DOF 2024). The addition of new residents from the operation of the project would therefore increase the population of the City of Sausalito to 6,889, which is less than the population in the city between 2000 and 2020 as shown in Table 3.14-1. In addition, the development of 19 units on the project site is

included in the City's 2023-2031 Housing Element. Therefore, development on the project site is planned and would not induce substantial unplanned population growth in the city. The project would not include extension of roads or other infrastructure that would indirectly induce population growth in the city. Therefore, the project would not induce substantial unplanned population growth or increased housing demand in the City of Sausalito. The impact would be less than significant, and no mitigation is required.

b) Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?

No impact. The site consists of four residential structures that have been vacant for several years and are in a deteriorated condition. The project site is designated as High Density Residential in the City of Sausalito General Plan Land Use Element. The High Density Residential designation has a maximum development density of 29 dewing units per acre, which would result in a maximum of 16 units on the approximately 0.58-acre project site. However, the project would include development of 19 units, three units more than the maximum units allowed under the existing General Plan land use designation. Therefore, the project would result in increased housing capacity in the city. The project would not displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere. No impact would occur, and no mitigation is required.

3.16 PUBLIC SERVICES

ENVIRONMENTALISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
XV. Public Services. Would the project:				
a) Result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, or the need for new or physically altered governmental facilities, the 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:				
Fire protection?			\boxtimes	
Police protection?			\boxtimes	
Schools?			\boxtimes	
Parks?			\boxtimes	
Other public facilities?			\boxtimes	

3.16.1 Environmental Setting

SMFPD provides fire and emergency medical services to the project site. The SMFPD service area includes the City of Sausalito, Tamalpais Valley, Homestead Valley, Almonte, Alto Bowl, Strawberry, a portion of the Town of Tiburon, and the National Park areas of Fort Baker and Marin Headlands. Services provided include fire suppression, rescue, emergency medical services, fire prevention services, vegetation management, public education, emergency preparedness, and trauma support. The SMFPD Sausalito station is located at 333 Johnson Street, approximately 0.5 mile southeast of the project site. Law enforcement services to the project site are provided by the City of Sausalito Police Department (SPD), which is located approximately 0.5 mile southeast of the project site at 29 Caledonia Street.

The project site is located within the boundaries of the Sausalito Marin City School District and the Tamalpais Union High School District. The closest public school is the Bayside Martin Luther King Junior Academy Nevada Campus, approximately 0.6 mile northwest of the project site. Municipal recreational facilities in the project vicinity include Langendorf Park, Dunphy Park, Marinship Park, and Robin Sweeny Park, which are all located within 0.25 mile of the project site. The nearest public library is the Sausalito Public Library, located approximately 0.23 mile southeast of the project site.

3.16.2 Discussion

a) Result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, or the need for new or physically altered governmental facilities, the 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:

Fire protection?

Less-than-significant impact. The project site is currently developed and is served by SMFPD. The project would replace the existing vacant residential buildings with two new buildings consisting of 19 residential units. As discussed in Section 3.14, "Population and Housing," development of 19 residential units on the project site is included in the City' 2023-2031 Housing Element. The anticipated population growth from the Housing Element Programs, including the project, would not necessitate the construction of new or expanded fire protection facilities (City of Sausalito 2024). In addition, as discussed in Section 3.9.2, the project would be required to comply with the conditions of approval identified by SMFPD to prevent fire. Conditions of approval would include the use of construction materials consistent with CBC and California Residential Code, preparation of a vegetation management plan, provision of a hydrant within 100 feet of the new structures, provision of fire sprinkler systems, provision of fire detection system, provision of fire lanes according to CFC, and provision of defensible space in accordance with CFC and Local Ordinance Section 109.3.2. Compliance with these conditions would minimize the project demand for fire protection services from the project. The impact would be less than significant; no mitigation is required.

Police protection?

Less-than-significant impact. As discussed above, the project site is developed and is currently served by SPD. The proposed development is included in the City's 2023-2031 Housing Element. The potential increase in SPD staffing required to serve all future development anticipated in the Housing Element would be four new SPD staff potions and no new service stations would be required (City of Sausalito 2024). Development of the project would be consistent with what is anticipated in the City's 2023-2031 Housing Element. No new service station would be required to serve the project. The impact would be less than significant, and no mitigation is required.

Schools?

Less-than-significant impact. The project would replace the existing vacant residential buildings with two new buildings consisting of 19 residential units. The anticipated student population growth from the project would be minimal and would not necessitate the construction of new or expanded school facilities. In addition, the California State Legislature, under SB 50, has determined that payment of school impact fees provides full and complete mitigation for impacts to school facilities. The project would be required to pay the school impact fees adopted by each school district, and this requirement is considered to fully mitigate the impacts of the project on school facilities. The impact would be less than significant, and no mitigation is required.

Parks?

Less-than-significant impact. Impacts related to parks and recreation facilities are discussed in Section 3.16 below.

Other public facilities?

Less-than-significant impact. The library closest to the project site is Sausalito Public Library. Implementation of the project would result in the development of 19 units, which would house approximately 33 residents based on approximately 1.71 persons per household in January 2024 (DOF 2024). The estimated new residents would represent less than 0.1 percent of the existing population of 6,856 (DOF 2024). An additional of 33 new residents would not be expected to result in the need for new or expanded library facilities or services. The impact would be less than significant, and no mitigation is required.

ENVIRONMENTALISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
XVI. Recreation.				
Would the project:				
 a) 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? 			\boxtimes	
b) Include recreational facilities or require the construction or expansion of recreational facilities that might have an adverse physical effect on the environment?				

3.17.1 Environmental Setting

The City of Sausalito has not adopted the Quimby Act ratio of 5 acres parkland per 1,000 residents. The City has a total of 34.95 acres of park and beach facilities (City of Sausalito 2024). Based on a population of 6,856 in January 2024, the City has an existing parkland ratio of 5.09 acres of parkland per 1,000 residents (DOF 2024). Within the City limits, the Golden Gate National Recreation Area (GGNRA) covers approximately 182 acres of open space, while the City owns approximately 17 acres of open space (not associated with GGNRA). Although most of GGNRA and all of Fort Baker are not located within the city, these national parks are adjacent to the city and provide approximately 7,653 additional acres of open space and open space amenities that supplement the City's parks (City of Sausalito 2024).

As discussed in Section 3.15.1, "Public Services," recreation facilities in the vicinity of the project site include Langendorf Park, Dunphy Park, Marinship Park, and Robin Sweeny Park. All these facilities are located within 0.25 mile of the project site.

3.17.2 Discussion

- a) 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? and
- b) Include recreational facilities or require the construction or expansion of recreational facilities that might have an adverse physical effect on the environment?

Less-than-significant impact. The proposed project would replace the existing vacant residential buildings with 19 residential units. As discussed in Section 3.14, "Population and Housing," the project would house 33 residents based on the average household size of 1.71 persons per household (DOF 2024). The population of Sausalito was estimated at 6,856 in January 2024 (DOF 2024). The addition of new residents from the operation of the project would therefore increase the population of the City of Sausalito to 6,889. Based on the 34.95 acres of park and beach facilities in the city, implementation of the project would result in a parkland ratio of 5.07 acres of parkland per 1,000 residents. Although the City has not adopted the Quimby Act ratio, implementation of the project would meet the recommended 5 acres parkland per 1,000 residents. In addition, the City owns approximately 17 acres of open space and the GGNRA covers approximately 182 acres of open space within the city. When factoring in the open space areas in the city, there would be sufficient parks and recreational facilities to service the project. The project would not include or require construction or expansion of recreational facilities. Given the small population growth from the project, implementation of the project would not result in a significant acceleration in deterioration of parkland facilities. The impact related to recreation would be less than significant, and no mitigation is required.

3.18 TRANSPORTATION

	ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
	II. Transportation. buld the project:				
a)	Conflict with a program, plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle, and pedestrian facilities?			\boxtimes	
b)	Conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b)?			\boxtimes	
C)	Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?				
d)	Result in inadequate emergency access?			\boxtimes	

3.18.1 Environmental Setting

The impact analysis presented in this section is based primarily on the *Circulation Study for Bridgeway Commons Project* (Circulation Study) prepared by Parametrix (2024). The Circulation Study, included as Appendix G, provides additional data and information related to the transportation analysis.

ROADWAY NETWORK

The following roadways provide access to the project site:

- ► Highway 101 is an eight-lane north-south highway that connects Sausalito to the City and County of San Francisco to the south and the rest of the County of Marin to the north. Highway 101 provides regional access to the project site.
- Bridgeway is a major arterial bi-directional four-lane roadway that connects Downtown Sausalito to the northern City limit where it connects to Highway 101. A center raised and landscaped median divides the northbound and southbound lanes. There are sidewalks along both sides of the roadway, Class II bicycle facilities along the northern side of the roadway, and Class III bicycle facilities along the southern side of the roadway.
- **Easterby Stree**t is a bi-directional north-south roadway that intersects with Bridgeway to the north and transitions into Woodward Avenue to the south. There are sidewalks along the east and west sides of the roadway.
- ► Filbert Avenue is a bi-directional two-lane roadway that connects Easterby Street with Napa Street. Filbert Avenue is located southwest of the project site. There are no bicycle or pedestrian facilities along Filbert Avenue in the vicinity of the project site.

BICYCLE AND PEDESTRIAN FACILITIES

The bicycle network in the City of Sausalito is composed of bicycle paths, bicycle lanes, and bicycle routes. The California Department of Transportation (Caltrans) classifies bicycle facilities into the following types (Caltrans 2024):

- Class I Shared-Use Paths: Paths completely separated from motor vehicle traffic used by people walking and biking, making them comfortable for people of all ages and abilities. Typically located immediately adjacent and parallel to a roadway or in its own independent right-of-way.
- Class II Bicycle Lanes: A dedicated lane for bicycle travel adjacent to traffic. A painted white line separates the bicycle lane from motor vehicle traffic.
- Class III Signed Bicycle Routes: Streets with signs and/or pavement markings that indicate people biking share the travel lane with motor vehicles.
- Class IV Bikeways: A bikeway is for the exclusive use of bicycles and includes a separation between the separated bikeway and the through vehicular traffic. The separation may include, but is not limited to, grade separation, flexible posts, inflexible barriers, or on-street parking.

According to the most recently updated City Bicycle Master Plan, as of 2008, the City of Sausalito had 3.63 miles of existing bikeways comprised of 0.85 miles of Class I bicycle facilities, 2 miles of Class II bicycle facilities, and 0.78 miles of Class III bicycle facilities (City of Sausalito 2008: 23). Sidewalks, Class II, and Class III bicycle facilities are present along Bridgeway in the vicinity of the project site.

TRANSIT SYSTEM

The project site is served by both local and regional public transit operators. Local transit to and from the project site is provided by the Marin Transit District and regional transit service is provided by Golden Gate Highway and Transportation District. Marin Access Paratransit provides pre-scheduled door-to-door bus transportation in Marin County for people with disabilities (Marin Transit n.d.). The nearest bus stop is located at the intersection of Bridgeway and Easterby Street, approximately 550 feet west of the project site, and is served by Marin Transit Routes 17 and 61 and Golden Transit Route 130. Marin Transit Route 17 buses travel north to south between Sausalito and San Rafael and operate Monday through Friday between 5:30 a.m. and 9:30 p.m. and on Saturdays and Sundays between 6:30 a.m. and 8:15 p.m. (Marin Transit 2024). Route 61 buses travel west to east from Sausalito to Bolinas. Westbound buses operate Monday through Friday between 8:15 a.m. and 8:00 p.m., and Saturdays and Sundays between 8:00 a.m. and 6:30 p.m. Eastbound buses operate Monday through Friday between approximately 6:45 a.m. and 6:00 p.m. and Saturdays and Sundays between approximately 9:45 a.m. and 8:00 p.m. (Marin Transit n.d.). Golden Gate Transit Route 130 regional buses travel between San Rafael and San Francisco and operate Monday through Sunday between approximately 5:30 a.m. and midnight (Golden Gate Highway and Transportation District 2024). The Golden Gate Bridge Highway and Transportation District also provides ferry service that connects Sausalito to the Ferry Building San Francisco. The Sausalito Ferry Landing is located near the intersection of El Portal and Bridgeway, approximately 1 mile east of the project site. The Blue & Gold Fleet also operates at the ferry landing in Sausalito, providing ferry excursion services to and from Pier 41 in the City and County of San Francisco.

APPLICABLE PLANS AND REGULATIONS

State

California Code of Regulations Section 15064.3

On December 28, 2018, State CEQA Guidelines Section 15064.3 was introduced to address the determination of significance for transportation impacts. This amendment mandates that transportation analyses be based on vehicle miles traveled (VMT) rather than congestion metrics such as level of service. Following approval by the Office of Administrative Law, the updated State CEQA Guidelines took effect statewide on July 1, 2020, implementing the provisions outlined in California Code of Regulations (CCR) Section 15064.3.

In December of 2018, the California Governor's Office of Planning and Research (OPR) published the most recent version of the *Technical Advisory on Evaluating Transportation Impacts in CEQA* (Technical Advisory), which provides guidance for VMT analysis. The Technical Advisory provides guidance related to screening thresholds for projects to indicate when detailed analysis is needed or if a project can be presumed to result in a less-than-significant VMT impact.

California Fire Code

The 2022 California Fire Code, which is codified as Part 9 of Title 24 of the CCR, incorporates by adoption the 2021 International Fire Code and contains regulations related to construction, maintenance, access, and use of buildings. Topics addressed in the California Fire Code include design standards for fire apparatus access (e.g., turning radii, minimum widths), standards for emergency access during construction, provisions intended to protect and assist fire responders, and several other general and specialized fire-safety requirements for new and existing buildings and the surrounding premises.

California Manual on Uniform Traffic Control Devices, Part 6: Temporary Traffic Control

The *California Manual on Uniform Traffic Control Devices* (California MUTCD), Part 6: Temporary Traffic Control provides principles and guidance for the implementation of temporary traffic control to ensure the provision of reasonably safe and effective movement of all roadway users (e.g., motorists, bicyclists, pedestrians) through or around temporary traffic control zones while reasonably protecting road users, workers, responders to traffic incidents, and equipment. In addition, this document notes that temporary traffic control plans and devices shall be the responsibility of the public body or official having jurisdiction guiding road users (Caltrans 2024: 1029).

<u>California Air Pollution Control Officers Association Handbook for Analyzing GHG Emission Reductions, Assessing</u> <u>Climate Vulnerabilities, and Advancing Health Equity</u>

The California Air Pollution Control Officers Association (CAPCOA) *Handbook for Analyzing GHG Emission Reductions, Assessing Climate Vulnerabilities, and Advancing Health and Equity* (Handbook) includes measures for reducing GHG emissions within the transportation sector. Measures quantified in the CAPCOA Handbook aim to reduce VMT and encourage mode shifts from single-occupancy vehicles to shared (e.g., transit) or active modes of transportation (e.g., bicycle) (CAPCOA 2021).

Local

City of Sausalito General Plan

The City of Sausalito General Plan serves as a blueprint for growth and development in the city. The Circulation and Parking Element provides a framework for decisions concerning the city's transportation system and establishes objectives, policies, and programs to improve public transit, pedestrian and bicycle facilities, and parking and transportation management programs (City of Sausalito 2021: CP-1). The following General Plan policies are applicable to the project:

- ► Policy CP-3.2 Alternative Transportation. Improve the efficiency of the existing transportation system and reduce the reliance on the private automobile by emphasizing alternative transportation modes.
- ► Policy CP-5.1 Bicycle Master Plan. Plan, design, implement, and maintain bicycle infrastructure in Sausalito according to the Bicycle Master Plan.
- Policy CP-5.8 Pedestrian Safety. Provide a safe walking environment along city streets and pathways.
- ▶ Policy CP-5.9 Accessibility. Ensure city sidewalks and pathways are accessible for people of all abilities.
- ► Policy CP-6.1 Development Requirements. Require developers of new and redevelopment projects to contribute to the cost of needed traffic and transit improvement.
- ▶ Policy LU-7.3 Encroachments. Manage encroachment on public street rights-of-way by private development.

City of Sausalito Bicycle Master Plan

The City of Sausalito *Bicycle Master Plan* provides an overview of existing bikeways, sets forth goals for future development of city bicycle facilities, and provides recommendations for bicycle facilities and programs (City of Sausalito 2008: 9). The following *Bicycle Master Plan* goals are applicable to the project:

GOAL 1.0: Plan and implement bicycle improvements in Sausalito.

GOAL 3.0: Build upon and enhance the existing bikeway system, programs, and resources in Sausalito.

City of Sausalito Encroachment Permit

The City of Sausalito requires an encroachment permit for any work performed in the public right-of-way. Documents required as part of the encroachment permit application include a traffic control plan in accordance with the California MUTCD and a pedestrian detour plan for construction activities in the sidewalk that cannot keep 4 feet open (City of Sausalito 2024). Additionally, the City of Sausalito has adopted the City of San Francisco's *Regulations for Working in the City Streets* that would be applicable during project construction (City of Sausalito 2024).

City of San Francisco Regulations for Working in San Francisco Streets

As described above, the City of Sausalito has adopted the City of San Francisco *Regulations for Working in San Francisco Streets* manual. The manual establishes rules and guidance so that construction work can be conducted safely and with the least possible interference with pedestrians, bicycle, transit, and vehicular traffic (City and County of San Francisco 2023: 2). Per the manual, all traffic control and warning and guidance devices must conform to the California MUTCD.

Southern Marin Fire Protection District

The Southern Marin Fire Protection District provides fire protection services to the City of Sausalito. The Southern Marin Fire Protection District Ordinance No. 2022/2023-01 adopts the 2022 California Fire Code with amendments supported by local findings (SMFPD 2023).

3.18.2 Discussion

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

Less-than-significant impact. Implementation of the project would not require the construction, re-design, or alteration of any public roadways other than the construction of a new driveway along Bridgeway that would allow access to the project site. Thus, the project would not adversely affect any existing or planned transit, bicycle, or pedestrian facilities. The project would result in residential growth, which could generate additional demand for transit facilities and services. According to the OPR Technical Advisory, when evaluating impacts on multimodal transportation networks, the addition of new transit users should not be treated as an adverse impact (OPR 2018). Even so, any additional ridership generated by the project would be minimal and could be accommodated by the existing transit service.

In addition, as shown in the project encroachment diagram (Figure 5), implementation of the project would include public sidewalk improvements along Filbert Avenue and street improvements along Bridgeway, thus enhancing the surrounding roadway network. The addition of pedestrian improvements within and around the project site would enhance the pedestrian environment in accordance with General Plan Policy CP-5.8, which aims to provide a safe walking environment along city streets. The project would also include the construction of 24 long-term, secure bicycle parking spaces inside one of the proposed buildings. By providing bicycle parking areas, the project is consistent with General Plan Policy CP-3.2 which aims to reduce reliance on private vehicles by emphasizing alternative transportation modes and *Bicycle Master Plan* Goal 1.0 which encourages the implementation of bicycle improvements in the city. For these reasons, the project would not conflict with a program, plan, ordinance, or policy addressing transit, bicycle, and pedestrian facilities. The impact would be less than significant, and no mitigation is required.

b) Conflict or be inconsistent with CEQA Guidelines section 15064.3(b), which pertains to vehicle miles travelled?

Less-than-significant impact. The City of Sausalito has yet to adopt guidance and/or thresholds for the analysis of VMT impacts. Therefore, OPR Technical Advisory guidance was used in the VMT analysis herein. The City of Sausalito uses the Transportation Authority of Marin Demand Model (TAMDM) as its VMT model to determine VMT generated by proposed land use projects (City of Sausalito 2021: CP-12). Consistent with the OPR Technical Advisory's

recommended threshold for residential projects, the project would result in a significant impact if project-generated VMT per resident exceeds 15 percent below existing County average home-based VMT per resident. The TAMDM identifies Marin County's average home-based VMT per resident as 15.8 for the year 2015 (Parametrix 2024). Therefore, the threshold of significance would be 13.4 VMT per resident (i.e., 15 percent below existing County average VMT per resident).

In the TAMDM, the project site is in the transportation analysis zone (TAZ) 800.047. According to the TAMDM, the average home-based VMT per resident is 15.0 in 2015 and 16.8 VMT per resident in 2040 in TAZ 800.047 (Parametrix 2024). As detailed in the Circulation Study, the project proposes a residential density of 27 dwelling units per acre as compared to an existing average residential density of eight dwelling units per acre in TAZ 800.047 (Parametrix 2024: 4). According to the CAPCOA Handbook Measure T-1, "Increase Residential Density," could reduce project VMT by up to 30 percent (CAPCOA 2021: 70).

Therefore, to account for reduced VMT from the project's higher density, the Circulation Study calculated and applied a 30 percent VMT reduction to the average TAZ home-based VMT, consistent with Measure T-1 in the CAPCOA Handbook. Table 3.17-1 presents the County average home-based VMT per resident, the threshold of significance, and the average home-based VMT per resident for TAZ 800.047 after the VMT reduction was applied for the project's increased density (i.e., project-generated VMT).

Year	County Average Home- Based VMT per Resident	Threshold of Significance (15% below existing County average VMT per Resident)	Project-Generated Home-Based VMT per Resident
2015	15.8	13.4	10.5
2040	15.0	12.8	11.8

Table 3.17-1 Project-Generated Home-Based VMT per Resident Forecast

Source: Parametrix 2024.

As detailed in Table 3.17-1, the project is anticipated to generate 10.5 home-based VMT per resident in 2015 and 11.8 home-based VMT per resident in 2040. Therefore, the project would not exceed the VMT threshold of 13.4 (i.e., 15 percent below existing Countywide VMT per resident). Additionally, the project site is located within 0.5 mile of existing transit stops, and the project would include improved bicycle and pedestrian amenities. These factors could increase the use of alternative modes of transportation and promote the reduction of single-occupancy vehicle trips and thus could further reduce VMT. For these reasons, implementation of the project would not conflict or be inconsistent with CEQA Guidelines Section 15064.3(b). The impact would be less than significant, and no mitigation is required.

c) 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. The project's impacts related to transportation hazards during construction and operation are detailed below.

Construction

Project construction would occur over approximately 30 months and include demolition, site preparation, and building construction. Per City Municipal Code Section 8.08.110, an encroachment permit from the City of Sausalito would be required for any work that would occur within the public right-of-way. In accordance with the encroachment permit conditions, a traffic control plan that aligns with the MUTCD would be provided (City of Sausalito n.d.). Per Section 6B.01 of the California MUTCD, adequate warning, delineation, and channelization should be provided to assist in guiding road users (e.g., motorists, bicyclists, and pedestrians) in advance of and through traffic control zones (Caltrans 2024: 1032). Additionally, the project would be required to meet the provisions set forth in the adopted City of San Francisco's *Regulations for Working in City Streets*, which establishes regulations to ensure the safety and least possible interference for pedestrian, bicycle, transit, and vehicular traffic. Furthermore, the project would be subject to review and approval by City staff ensuring safety impacts related to transportation would be minimized. For these reasons, the project is not anticipated to substantially increase transportation hazards during construction activities.

Operation

The project would include the construction of a new 24-foot wide, two-way driveway along Bridgeway that would provide vehicular access to the project site and the proposed parking area (i.e., Car Garden). Entry and exit from the Car Garden would be controlled by an automatic access gate set back approximately 55 feet from the curb along Bridgeway. All new roadway and access improvements would be subject to and designed in accordance with City roadway design standards to allow for the safe movement of all modes of transportation. Additionally, the project site plans would be subject to review by the City to ensure that all applicable standards and regulations are met to minimize transportation hazards during project operations. Further, the types of vehicles accessing the project site during operation (e.g., personal vehicles, bicycles) would be consistent with vehicles in the surrounding neighborhood under existing conditions, as the project is surrounded by residential and commercial land uses. For these reasons, the project would not substantially increase hazards due to a design feature or incompatible uses.

Summary

The project would be subject to and adhere to all City design standards and safety regulations that are intended to reduce transportation hazards. The project applicant would be required to prepare a traffic control plan to minimize potential safety impacts during construction in the public right-of-way. Additionally, the project site plans would be subject to review by City staff to ensure that applicable design standards and specifications are met to minimize transportation hazards during operations. For these reasons, the project would not substantially increase hazards due to a design feature or incompatible use. The impact would be less than significant, and no mitigation is required.

d) Result in inadequate emergency access?

Less-than-significant impact. SMFPD would provide fire protection and emergency response services to the project site. The project would be required to comply with the 2022 CFC, as adopted by reference in the SMFPD Ordinance No. 2022/2023-01. Section 3303.1 of the CFC requires that an owner or authorized agent develop, implement, and maintain an approved written site safety plan at the project site during all phases of construction, repair, alteration, or demolition work. Section 3303.1.1 details the required elements that all site safety plans must have, such as fire department vehicle access routes. Additionally, SMFPD conducted a review of the project application (Application 2018-00413) and associated documents in March 2020. SMFPD has identified conditions of approval applicable to the project. SMFPD conditions of approval related to emergency access include maintaining fire access to the project site and surrounding properties at all times; ensuring serviceable on-site improvements, including water main extension, hydrants and access roads, prior to framing the structure; and ensuring that all security gates installed across a fire apparatus access road can open fully to provide an unobstructed passage width of no less than 16 feet or a minimum of two feet wider than the approved net clear opening of the required all weather roadway or driveway and a minimum net vertical clearance of 15 feet (SMFPD 2020). Compliance with SMFPD conditions of approval would ensure that adequate emergency access would be provided. Therefore, the project would be designed to meet applicable access and design standards, and the project would not result in inadequate emergency access. The impact would be less than significant.

3.19 TRIBAL CULTURAL RESOURCES

	ENVIRONMENTALISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Ha 210 de ⁻ ge	'III. Tribal Cultural Resources. s a California Native American Tribe requested consultat)80.3.1(b)? Would the project cause a substantial adverse fined in Public Resources Code section 21074 as either a ographically defined in terms of the size and scope of th a California Native American tribe, and that is:	e change in th site, feature, j	e significance of place, cultural la	a tribal cultur ndscape that is	al resource, s
a)	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 section 5020.1(k)?				\boxtimes
b)	A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resource Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe?				

3.19.1 Environmental Setting

Assembly Bill (AB) 52, signed by Governor Edmund G. Brown, Jr., in September 2014, established a new class of resources under CEQA: "Tribal cultural resources." AB 52, as provided in PRC Sections 21080.3.1, 21080.3.2, and 21082.3, requires that lead agencies undertaking CEQA review must, upon written request of a California Native American Tribe, begin consultation once the lead agency determines that the application for the Project is complete, prior to the issuance of a NOP of an EIR or notice of intent to adopt a negative declaration or mitigated negative declaration.

On July 18, 2024, the City of Sausalito notified the FIGR, Guidiville Rancheria of California, and Wuksachi Indian Tribe/Eshom Valley Band regarding the project in accordance with AB 52. A response letter from FIGR dated August 9, 2024 was sent to the City via email on August 15, 2024 requesting scoping consultation. The City met with the FIGR representative on September 9, 2024 to discuss the project. The FIGR requested the project applicant to provide preconstruction training, tribal monitoring, and details on the protocols to assess unexpected discovery of resources. No tribal cultural resources were identified as a result of Native American consultation.

On July 12, 2024, a letter from the Native American Heritage Commission indicated that the Sacred Lands File search was positive for the presence of Native American cultural resources in the project vicinity. As discussed in Section 3.5, "Cultural Resources," an archaeological field survey was completed on November 15, 2024, and no tribal cultural resources were identified within the project site during the survey.

No impact. The project area contains no tribal cultural resources that are listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources. There would be no impact, and no mitigation is required.

b) A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resource Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe?

Less than significant with mitigation incorporated. The FIGR requested consultation pursuant to PRC Section 21074. The City met with the FIGR representative on September 9, 2024 to discuss the project. No tribal cultural resources were identified as a result of Native American consultation. However, FIGR requested the project applicant to provide pre-construction training. tribal monitoring, and details on the protocols to assess unexpected discovery of resources. These requests were incorporated into Mitigation Measures CR-1, CR-2, and CR-3 in Section 3.6, "Cultural Resources."

No tribal cultural resources were identified within the project site as a result of the records search, literature review, Native American outreach, or archaeological field survey. However, project construction would include ground disturbing activities (e.g., excavation and grading). In addition, the proposed utility connections would involve excavation activities and would occur within the project site and on existing public rights-of-way. Tribal cultural resources may be uncovered during ground disturbing activities within the project site and public rights-of-way. This impact is potentially significant. Implementation of Mitigation Measures CR-1 to CR-3 would reduce impacts to tribal cultural resources to a less-than-significant level by requiring pre-construction cultural resources training, tribal monitoring, and appropriate treatment of significant tribal cultural resources, as directed by the culturally and geographically affiliated tribe, in the case of a discovery. Therefore, the impact would be less than significant with mitigation incorporated.

3.20 UTILITIES AND SERVICE SYSTEMS

	ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
XIX Wo	C. Utilities and Service Systems. uld the project:				
a)	Require or result in the relocation or construction of construction of new or expanded water, wastewater treatment or stormwater drainage, electric power, natural gas, or telecommunication facilities, the construction or relocation of which could cause significant environmental effects?				
b)	Have insufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years?			\boxtimes	
C)	Result in a determination by the wastewater treatment provider that serves or may serve the project that it has inadequate capacity to serve the project's projected demand, in addition to the provider's existing commitments?				
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?				
e)	Fail to comply with federal, state, and local management and reduction statutes and regulations related to solid waste?			\boxtimes	

3.20.1 Environmental Setting

WATER

MMWD supplies potable water to the entire City of Sausalito, including the project site. MMWD's service area encompasses approximately 147 square miles in eastern Marin County. MMWD's portable and raw water distribution system includes approximately 886 miles of water mains, 94 pump stations, and 121 treated water storage tanks with a total storage capacity of 74.96 million gallons (MG). MMWD teats water at its three treatment plants, the Bon Tempe Treatment Plant (BTTP) near Ross, the San Geronimo Treatment Plant (SGTP) in Woodacre, and the Ignacio treatment facility in Novato. Together, these facilities have a combined design capacity of 71 million gallons per day (mgd). Observed high flows have reached 45 mgd in July 2006; however, the average daily maximum flow is approximately 22.4 mgd over the last 10 years. In 2019, the total production of the three plants averaged 22.8 mgd. In addition to the potable water system, MMWD also owns and operates a recycled water system. MMWD does not pump groundwater, nor does it plan to use groundwater as a water supply source in the future (MMWD 2024).

The *Updated 2020 Urban Water Management Plan* (Updated 2020 UWMP) for MMWD analyzes past, current, and future water demands and the reliability of water supplies within the MMWD's service area. The Updated 2020 UWMP adjusted the projected water demands in accordance with the latest ABAG 2023-2031 Regional Housing

Needs Allocation (RHNA). The Updated 2020 UWMP concludes that MMWD would have sufficient supplies to meet projected demands in normal years, single dry years, and multiple dry years through 2045 (MMWD 2024).

WASTEWATER

Wastewater collection in Sausalito is provided by the City of Sausalito Department of Public Works. Waste water treatment and conveyance services are provided by Sausalito-Marin City Sanitary District (SMCSD). SMSCD operates and maintains a wastewater treatment plant designed to fully treat wastewater under: Primary, Secondary and Tertiary treatment levels up to 1.8 mgd during average dry weather flow. During wet weather flow, the plant is designed to hydraulically handle up to 12 mgd and is capable of treating up to 9 mgd of full secondary treatment and up to 6 mgd of tertiary treatment. The conveyance system consists of 11 sewage pump stations, and approximately 11 miles of pipelines. SMCSD owns and operates 7 pump stations and operates and maintains, under a service agreement, 4 pump stations on behalf of the City of Sausalito (SMCSD 2024). The dry weather flow to the wastewater treatment plant is about 1.1 mgd (SFBRWQCB 2018). The weather flows have been recorded up to 6.6 mgd (City of Sausalito 2024).

ELECTRICITY AND NATURAL GAS

Electricity and natural gas services in the City of Sausalito are provided by Pacific Gas & Electric Company (PG&E). The PG&E electrical power grid consists of both overhead and underground electrical lines located predominantly in the public street rights-of-way and easements. Provision of electricity is through PG&E with the option of purchasing electricity through MCE, which is delivered by PG&E. MCE is a public, nonprofit electricity provider established in 2008 under state legislation permitting the formation of community choice aggregation agencies. MCE's service area includes all of Marin and Napa Counties, along with several cities in the Easy Bay region. MCE customers have the option of receiving 50 to 100 percent of renewable electricity from solar, wind, bioenergy, geothermal, and hydroelectric sources (City of Sausalito 2024).

TELECOMMUNICATIONS

Sausalito residents and businesses have a growing range of telecommunications services and options to choose from today. Landline service is provided by AT&T, ECG, and Pioneer Telephone. Wireless phone service is the most commonly used phone service in Sausalito, largely because of its portability and convenience. Another option is DSL service, which runs via copper lines and makes use of a modem in the home to allow customers to connect to both the internet and a telephone line at the same time. More than 90 percent of Sausalito residents make use of multiple wired providers for telephone, internet, and cable services. Additionally, there are 17 internet providers in Sausalito with nine of them specializing in services for business. Wired broadband services are not uniformly available throughout the City, and it is estimated that approximately six percent of households in the community have limited choice of providers (City of Sausalito 2024).

SOLID WASTE

Bay Cities Refuse is the City of Sausalito's provider of garbage, recycling, and green waste collection services. Bay Cities Refuse transports waste to the Golden Bear Waste Recycling Center in Richmond. The facility has a maximum permitted throughput of 1,000 tons per day (7-day average) and a maximum permitted capacity of 1,400 tons per day, not to exceed 7,000 tons per week (CalRecycle 2024). From the Golden Bear Waste Recycling Center, materials are transferred to the West County Resource Recovery's Central Processing Facility in Richmond, which has a maximum permitted throughput of 1,200 tons per day and a maximum permitted capacity of 1,200 tons per day (CalRecycle 2024). Food waste/green waste is taken to the West Contra Costa County Sanitary Landfill Organic Materials Processing facility in Richmond, where it is processed and turned into compost onsite. The composting facility has a maximum permitted throughput of 1,134 tons per day (CalRecycle 2024).

Any remaining solid waste is then transferred to the Keller Canyon Landfill in Pittsburg, which is the closest landfill to the project site. The landfill has a permitted maximum tonnage of 3,500 tons per day and a maximum permitted capacity of 75,018,280 cubic yards. As of November 16, 2004, the Keller Canyon Landfill had a remaining capacity of 63,408,410 cubic yards. The estimated closure date for this facility is December 31, 2050 (CalRecycle 2024). Another landfill in the region that has capacity is the Potrero Hills Landfill in Suisun City. The Potrero Hills Landfill has a permitted maximum tonnage of 4,330 tons per day and a maximum permitted capacity of 83,100,000 cubic yards. As of January 1, 2006, the Potrero Hills Landfill had a remaining capacity of 13,872,000 cubic yards. The estimated closure date for this facility is February 14, 2048 (CalRecycle 2024).

The Marin Household Hazardous Waste Facility, at 565 Jacoby Street in San Rafael, accepts a wide variety of hazardous materials such as electronic products, batteries, light bulbs, cleaning products, auto care products, and pressurized containers. Hazardous waste may also be taken to the Novato Hazardous Waste Facility at 500 Davidson Street in Novato. There is also a collection bin for batteries in the central hallway on the main floor of the Sausalito City Hall. The City hosts occasional e-waste collection events in the City Hall parking lot and at other locations as appropriate.

3.20.2 Discussion

a) Require or result in the relocation or construction of new or expanded water, wastewater treatment or stormwater drainage, electric power, natural gas, or telecommunication facilities, the construction or relocation of which could cause significant environmental effects?

Less than significant with mitigation incorporated. As discussed in Impact b) below, the proposed 19-unit development is included in the 2023-2031 Housing Element to meet the 2023-2031 RHNA assigned to the City. MMWD's Updated 2020 UWMP adjusted the projected water demands in accordance with the latest ABAG 2023-2031 RHNA. The Updated 2020 UWMP concludes that MMWD would have sufficient supplies to meet projected demands in normal years, single dry years, and multiple dry years through 2045 (MMWD 2024). Therefore, there would be sufficient water supplies to serve the project, and no new or expanded water treatment facilities would be required. The project site is served by SMCSD wastewater treatment plant. As discussed in Impact c), the proposed 19 units would result in approximately 0.0038 mgd of dry weather flows, which is within the approximately 0.7 mdg available capacity of the SMCSD wastewater treatment plant. Therefore, wastewater generated by the project would be within the capacity of the SMCSD wastewater treatment plant and no new or expanded wastewater treatment facilities would be required. Therefore, implementation of the project would not require relocation or construction of new or expanded wastewater treatment facilities. The project would feature all-electric design and would not include natural gas infrastructure. The project site is currently served by telecommunications providers (e.g., AT&T, ECG, and Pioneer Telephone). The project would result in 19 residential units, which would result in a relatively small increase in population that would not substantially increase demand for telecommunications.

Electricity service to the project site would be through either construction of a new pole or connection to the existing pole to the south of the site. Construction of a new power pole, if required, would result in minimal ground disturbance and would be in alignment with the existing power line. Installation of the power pole, if required, would occur on existing developed public right-or-way adjacent to the project site and would not be expected to cause significant environmental effects. No other electric power facilities would be required to accommodate the project. The project would require relocation of a sewer line and construction of on-site drainage improvement. Existing sanitary sewer laterals on the project site are proposed to be abandoned and new sanitary sewer laterals would be required to connect to the City main per the requirements of the California Plumbing Code and City of Sausalito requirements. The project could alter drainage pattern on-site due to an increase in impervious surfaces. However, the project would include on-site stormwater treatment facilities, such as the installation of five bio-retention basins throughout the project site. As discussed in Section 3.10.2 Impact c.iii), an increase in impervious surfaces on-site could create runoff that has the potential to exceed the capacity of storm drain. The project would implement Mitigation Measure HYDRO-1, which requires conducting a hydrology-hydraulics study. The hydrology-hydraulics study should demonstrate that the project's on-site storm drain system is designed such that no increase in peak flow rate in stormwater runoff would

result from the project when compared with the pre-project condition. Implementation of Mitigation Measure HYDRO-1 would ensure that the project's impact on the storm drainage system would be less than significant. No new or expanded infrastructure beyond those proposed as part of the project and within the project site boundaries would be required. This impact would be less than significant with mitigation incorporated.

b) Have insufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years?

Less-than-significant impact. Construction activities would result in a temporary increase in water consumption for cleaning surfaces, mixing with concrete or other materials, suppressing dust, and establishing plants. No element of project construction would require substantial water usage. The total disturbance area that would require dust control would be approximately 0.58 acre. Project elements that require concrete mixing would include foundation, retaining walls, and pedestrian improvement areas. Construction water usage would be minimal and would cease once construction is complete. The relatively minor water supply needed for proposed construction activities would leave sufficient water supplies available for other reasonably foreseeable future development during normal, dry, and multiple dry years.

The Updated 2020 UWMP concludes that MMWD would have sufficient supplies to meet projected demands in normal years, single dry years, and multiple dry years through 2045 (MMWD 2024). The Updated 2020 UWMP adjusted the projected water demands in accordance with the latest ABAG 2023-2031 RHNA. Sausalito received an RHNA of 724 units for the 2023-2031 planning period. The proposed 19-unit development is included in the 2023-2031 Housing Element to meet the 2023-2031 RHNA assigned to the City. Therefore, water supplies to serve the project have been considered in the Updated 2020 UWMP. There would be sufficient water supplies available to serve the project during normal, dry and multiple dry years. The impact would be less than significant, and no mitigation is required.

c) Result in a determination by the wastewater treatment provider that serves or may serve the project that it has inadequate capacity to serve the project's projected demand, in addition to the provider's existing commitments?

Less-than-significant impact. The project would include development of 19 residential units, which would increase wastewater generation at the project site compared to existing conditions. The project site is served by the SMCSD wastewater treatment plant, which is designed to fully treat wastewater under Primary, Secondary and Tertiary treatment levels up to 1.8 mgd during average dry weather flow. Based on a current dry weather flow of approximately 1.1 mgd (SFBRWQCB 2018), there is approximately 0.7 mgd capacity available of dry weather flow in the SMCSD wastewater treatment plant. SMCSD estimates a generation of 200 gallons per day per equivalent dwelling unit (SMCSD 2016). The proposed 19 units would result in approximately 3,800 gallons per day or 0.0038 mgd of dry weather flows and would be within the total available capacity of the wastewater treatment plant. The wastewater treatment plant would have the capacity to serve the project. The impact would be less than significant, and no mitigation is required.

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? and

e) Fail to comply with federal, state, and local management and reduction statutes and regulations related to solid waste?

Less-than-significant impact. During construction, the project would generate trash and demolition debris. In accordance with Section 5.408 of the CALGreen Code, the project would implement a Construction Waste Management Plan that would require recycling and/or salvaging a minimum of 65 percent of nonhazardous construction and demolition debris. Project-generated construction and demolition debris would be hauled to the Keller Canyon Landfill, which had a remaining capacity of 63,408,410 cubic yards. It is expected that solid waste generated during construction would represent a negligible percentage of the landfill's remaining capacity. Therefore, the Kelley Canyon Landfill has adequate capacity to accommodate the solid waste generated during project construction.

Once operational, the project would consist of 19 residential units on the project site. As discussed above, the City of Sausalito is served by Bay Cities Refuse, which transports the city's solid waste to the Golden Bear Waste Recycling Center located in Richmond. The facility had a permitted capacity to accept 1,400 tons of material daily. The City's additional solid waste generated from the additional development to accommodate the Housing Element Programs growth would not exceed the existing daily capacity of the Golden Bear Waste Recycling Center (City of Sausalito 2024). Because the proposed 19-unit development is included in the City's 2023-2031 Housing Element, there would be sufficient capacity in the Golden Bear Waste Recycling Center to accommodate the project. The recyclable materials generated from the project would be transferred to the West County Resource Recovery facility in Richmond. Therefore, existing landfills have adequate capacity to accommodate the solid waste generated during project operations.

In accordance with the sustainability and waste management goals and policies of the City and Marin County, the City is actively working towards its goal of achieving zero net waste. Accordingly, it is anticipated that the City's per capita disposal rates would substantially decrease over time. Compliance with sustainability and waste management goals and policies of the City and Marin County would ensure that the proposed project would meet or exceed the requirements of applicable solid waste reduction goals and requirements, which include Assembly Bill (AB) 939 and SB 1322 (California's Integrated Waste Management Act), AB 341 (mandatory commercial recycling requirements), AB 1826 (mandatory commercial organics recycling), SB 1374 (construction and demolition waste materials diversion requirements), and CALGreen Sections 4.408 and 5.408 (construction waste reduction, disposal, and recycling requirements).

The project 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. In addition, the project would comply with applicable state and local requirements pertaining to solid waste, construction waste diversion, and recycling. Therefore, this impact would be less than significant, and no mitigation is required.

3.21 WILDFIRE

	ENVIRONMENTALISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
	. Wildfire.				
ls t	he project located in or near state responsibility areas or	lands classifi	ed as high fire h	azard severity	zones?
lf lo	ocated in or near state responsibility areas or lands classified	as very high	fire hazard sever	ity zones, woul	d the project:
a)	Substantially impair an adopted emergency response plan or emergency evacuation plan?			\boxtimes	
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?				
C)	Require the installation 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?				
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?				

3.21.1 Environmental Setting

The project site is located in a LRA outside of designated as moderate, high, or very high FHSZs in in the City of Sausalito. The project site is within one mile of an SRA designated as a very high FHSZ (CAL FIRE 2024). In addition, the project site is located within a WUI Zone.

As described in Section 3.15, "Public Services," the project site is served by SMFPD. Project operations would be subject to the procedures described in the Marin County Emergency Operations Program, which includes emergency response actions, including an evacuation plan, for all areas of the County in the event of a wildfire. According to the Health, Safety, and Community Resilience Element of the City of Sausalito General Plan, the established evacuation routes that would serve as primary evacuation corridors in the event of an emergency from the City of Sausalito include Bridgeway, Spencer Avenue, Alexander Avenue, Highway 101, Donahue Street, and Shoreline Highway. For people who have access to boats, evacuation could be potentially taken via Richardson's Bay. Other main thoroughfares in the City could also be used in the event of an evacuation.

3.21.2 Discussion

a) Substantially impair an adopted emergency response plan or emergency evacuation plan?

Less-than-significant impact. Impacts related to emergency response plan or emergency evacuation plan are discussed in Section 3.9.2 Impact f). As discussed in Section 3.9.2, the project would not result in any temporary or permanent closures or other modifications of local roadways. The project would not obstruct evacuation routes during construction or operation. The impact would be less than significant, and no mitigation is required.

c) Require the installation 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?

uncontrolled spread of a wildfire. The impact would be less than significant, and no mitigation is required.

Due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to pollutant concentrations from a wildfire or the

Less-than-significant impact. The project site is within one mile of an SRA designated as a very high FHSZ (CAL FIRE 2024). In addition, the project site is located within a WUI Zone. The project site is surrounded by development to the south, east, and west, and by Richardson's Bay to the north. The project site is located at the bottom of a developed hillside, but is 0.5 mile away from Highway 101, on the other side of which is vegetation that could burn quickly in a

The project would replace the existing vacant residential buildings with two new budlings for a total of 19 residential units. The project would be designed in accordance with the current CBC and CFC, which include requirements for the provision of defensible space, flammable vegetation clearance, and the use of ignition-resistant building materials for properties near very high FHSZs in SRAs. The project design would also include adequate provisions for fire protection service, including adequate egress. The degree of wildland fire hazard, including the exposure of future occupants to pollutant concentrations from a wildfire or the uncontrolled spread of wildfire due to slope or prevailing winds, would not substantially change with adoption of the project compared to existing conditions. Therefore, the project would not

Less-than-significant impact. The project site is within one mile of an SRA designated as a very high FHSZ (CALFIRE 2024). The project site is located within a WUI Zone. The project site is located in a developed area with existing infrastructure (including highways and local roadways) and services are already in place or readily available. Implementation of the project would not alter existing roadway and other infrastructure patterns and does not propose new roadways or other major infrastructure improvements or extensions into an undeveloped area, which would pose an additional or increase to wildlife risks. Electricity service to the project site would be through either construction of a new pole or connection to the existing pole to the south of the site. If construction of a new pole is required to accommodate the project energy demand, this would be completed by PG&E and would require additional discretionary review. As such, the project does not propose or require the installation and maintenance of new infrastructure that would substantially exacerbate fire risk. The impact would be less than significant, and no mitigation is required.

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?

Less-than-significant impact. The project site is within one mile of an SRA designated as a very high FHSZ (CA LFIRE 2024). The project site is located within a WUI Zone. Implementation of the project would place more people in the WUI zone. The project would be required to comply with fire protection measures in the SMPFD Fire Ordinance and comply with SMPFD conditions of approval as discussed in Section 3.9.2 Impact g). Furthermore, as described in Section 3.7, "Geology and Soils," and Section 3.10, "Hydrology and Water Quality," implementation of the project would not result in significant impacts related to landslides and flooding. The impacts related to exposure of people and structures to post wildfire hazards would be less than significant, no mitigation is required.

wildfire.

uncontrolled spread of a wildfire?

b)

3.22 MANDATORY FINDINGS OF SIGNIFICANCE

	ENVIRONMENTALISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
XX	. Mandatory Findings of Significance.				
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 an endangered, rare, or threatened species, or eliminate important examples of the major periods of California history or prehistory?				
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.)				
c)	Does the project have environmental effects that will cause substantial adverse effects on human beings, either directly or indirectly?				

3.22.1 Environmental Setting

Refer to the "Environmental Setting" discussion in Sections 3.1 through 3.20 of this IS/MND for a summary of the existing environmental conditions in the project site and vicinity.

3.22.2 Discussion

The project, with proposed mitigation measures, would not cause substantial adverse effects on human beings, 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, 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. Although the Project has the potential to affect unknown, buried historical resources and archaeological resources under Section 15064.5 of the CEQA Guidelines and Tribal Cultural Resources as defined by the CEQA Statute Section 21074, mitigation measures have been provided to reduce these potential impacts to a less-than-significant level.

For the reasons discussed above in this document, and incorporated in this discussion section, the proposed Project, as mitigated, would not generate any significant direct, indirect, or cumulatively considerable impacts on human beings or the environment.

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 an endangered, rare, or threatened species, or eliminate important examples of the major periods of California history or prehistory?

Less than significant with mitigation incorporated. As discussed in Section 3.4, "Biological Resources," the project site project site supports previously developed urban habitat cover, containing existing residential structures, trees, and ornamental vegetation. Two special-status bat species have the potential to occur in the project site: pallid bat and Townsend's big-eared bat. Demolition of buildings, removal of roosting trees, and other construction activities would have the potential to affect the survival of adult or young bats resulting in a potentially significant impact. Mitigation Measure BIO-1 would require that surveys be conducted for roosting bats in the existing structures and trees within 30 days prior to tree removal and demolition and require implementation of avoidance measures. With implementation of the special-status bat survey and avoidance measures required by Mitigation Measure BIO-1, the impact to special-status bat species would be reduced to a less-than-significant level. There are no streams or associated riparian habitat on the project site. Runoff from the site would drain into Richardson's Bay, which hosts a variety of sensitive natural communities. If runoff containing hazardous materials or silt enters Richardson's Bay, the impacts to sensitive marine communities would be potentially significant. Implementation of erosion control plan and Mitigation Measure HYDRO-1 would ensure that stormwater runoff from the project would not significantly impact Richardson's Bay. Mitigation Measures HYDRO-1 requires conducting a hydrology-hydraulics study for the proposed storm drain system to ensure that no increase in peak flow rate in stormwater runoff would result from the project.

As described in Section 3.5, "Cultural Resources," the project would have no impact to historical resources and a lessthan-significant impact related to human remains. However, the project would include ground disturbing activities that could result in the inadvertent discovery of archaeological resources. Implementation of Mitigation Measure CR-1 would reduce potential impacts to less than significant by requiring the performance of professionally accepted and legally compliant procedures for the discovery of previously undocumented significant archaeological resources.

As such, effects to biological and cultural resources and potential for project-related activities to degrade the quality of the environment would be less than significant with incorporation of Mitigation Measures BIO-1, HYCRO-1, and CR-1.

 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.)

Less than significant with mitigation incorporated. As described throughout this IS/MND, the project would result in potentially significant impacts related to air quality, biological resources, cultural resources, geology and soils, GHG emissions, hazards and hazardous materials, hydrology and water quality, noise, and tribal cultural resources. However, mitigation measures have been identified that would reduce these impacts to less-than-significant levels. Furthermore, the analyses presented in Section 3.3, "Air Quality," Section 3.8, "Greenhouse Gas Emissions," and Section 3.17, "Transportation," considers potential cumulative impacts associated with development of the project. The analyses determined that cumulative air and GHG emails impacts would be less than significant with mitigation measures throughout Section 3.1 through Section 3.20 would ensure that environmental effects associated with the project would not combine with effects from reasonably foreseeable future development in the project vicinity to cause cumulatively considerable significant impacts. For these reasons, cumulative impacts would be less than significant impacts. No further mitigation is required.

c) Does the project have environmental effects that will cause substantial adverse effects on human beings, either directly or indirectly?

Less than significant with mitigation incorporated. As described throughout this IS/MND, the project would result in potentially significant impacts related to air quality, hazards and hazardous materials, and noise. With implementation of Mitigation Measure AQ-1, impacts related to construction emissions would be less than significant. Implementation of Mitigation Measures HAZ-1 and HAZ-2 would reduce impacts related to exposure to hazardous materials to a less-than-significant level. Mitigation Measure NOI-1 would reduce construction-related vibration impacts to sensitive receptors to a less-than-significant level. The project would not exceed significance thresholds or result in significant impacts for the other environmental categories typically associated with indirect or direct effects to human beings. As such, direct or indirect adverse impacts on human beings would be less than significant with mitigation incorporated. No further mitigation is required.

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3.22 Mandatory Findings of Significance

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Appendix A

Project Plans



BRIDGEWAY COMMONS

1755 BRIDGEWAY, SAUSALITO

PLANNING APPLICATION RESUBMITTAL MAY 4, 2022



RECEIVED CITY OF SAUSALITO MAY 13 2022 DEPARTMENT OF PUBLIC WORKS

	LLINGU	INIT & BUILDIN	GSTATIST						
CONSTRUCTI FLOORS:	ON TYPE:		TYPE V OVE 2 WOOD OVE	R TYPE I ER 1 CONCRET	ΓE				
UNIT TYPE	NAME	DESCRIB	Unit Net Rent				4711	6 711	Unit
2 BEDROOM	B1.0	2 BDRM/ 2 BATH	1,179	1ST	2ND 1	3RD	4TH	5TH	Total 1
	B1.1	2 BDRM/ 2 BATH	1,179			1			1
	B2.0	2 BDRM/ 2 BATH	1,042		1				1
	B2.1	2 BDRM/ 2 BATH	1,042		4	1			1
	B3.0 B3.1	2 BDRM/ 2 BATH 2 BDRM/ 2 BATH	1,142 1,142		1	1			1
	B3.1 B4.0	2 BDRM/ 2 BATH	1,061		1	I			1
	B4.1	2 BDRM/ 2 BATH	1,061			1			1
	B5.0	2 BDRM/ 2 BATH	1,080		1				1
	B5.1	2 BDRM/ 2 BATH	1,080			1 	0	0	1
2 BDRM SUB-	C1.0	3 BDRM/ 2 BATH	1,513		5	5	0	0	10 0
3 BEDROOIWI	C1.0 C2.0	3 BDRM/ 2 BATH	1,419				1		1
	C3.0	3 BDRM/ 2 BATH	1,863				1		1
	C4.0	3 BDRM/ 2 BATH	2,221				1		1
3 BDRM SUB-			4 270		0	0	3	0	3
TOTAL UNITS		Avg SqFt	t 1,270		5	5	3	0	13
Net rentable re	sidential area i	s measured center of dem	ising wall, ext face o	of stud of ext wa	all, ext face of s	stud of corridor v	wall, excl decks	3	
Net rentable R	Residential by	floor (excl decks)			5,504	5,504	5,503	0	
Gross area by	floor (footprin	t minus net rentable, excl o	decks)	658	122	122	123	0	
Commerce			1	054				,	
Common Spa Utilities	ce/circulation			651 1,244	0 40	0 40	0 40		
Garage				6,809	40 0	40	40 0		
Total Gross				9,362	5,666	5,666	5,666	0	
CONSTRUCTI FLOORS:				ER 2 CONCRET	ΓE				
UNIT TYPE	NAME	DESCRIB	Unit Net Rent	able 1ST	2ND	3RD	4TH	5TH	Unit Total
1 BEDROOM	A1.0	1 BDRM/ BATH	891		LIND	1		0111	1
	A1.1	1 BDRM/ BATH	883				1	1	2
1 BDRM SUB-	TOTAL				0	1	1	1	3
2 BEDROOM		2 BDRM/ 2 BATH	1,186			1		0	1
2 BDRM SUB-		3 BDRM/ 2 BATH	1,513		0	1	0	0	1 2
3 BDRM SUB-		J DDRIVI Z DATH	1,313		0	0	1	1	2
TOTAL UNITS		Avg SqF	t 1,145		0	2	2	2	6
Gross area by	floor (footprin	or (excl decks) It minus net rentable, excl o	decks)	0	0 422	2,077 248	2,396 232	2,396 232	
Common Spa Utilities	ce/Circulation				224 715	410	107	107	
Garage					1,858				
Total Gross				0	3,219	2,735	2,735	2,735	
CONSTRUCTI FLOORS:	ON TYPE:		MIXED CONS	STRUCTION TY	′ΡΕ				
UNIT TYPE	NAME	DESCRIB	Unit Net Rent	able 1ST	2ND	3RD	4TH	5TH	Unit Total
1 BEDROOM	A1.0	1 BDRM/ BATH	891		2NU -	1	-	JIH -	1
	A1.1	1 BDRM/ BATH	883		-	-	1	1	2
1 BDRM SUB-					0	1	1	1	3
2 BEDROOM	B1.0 B1.1	2 BDRM/ 2 BATH	1,179		1	-	-	-	1
	B1.1 B2.0	2 BDRM/ 2 BATH 2 BDRM/ 2 BATH	1,179 1,042		- 1	1	-	-	1
	B2.0 B2.1	2 BDRM/ 2 BATH 2 BDRM/ 2 BATH	1,042		-	- 1	-	-	1
	B3.0	2 BDRM/ 2 BATH	1,142		1	-	-	-	1
	B3.1	2 BDRM/ 2 BATH	1,142		-	1	-	-	1
	B4.0	2 BDRM/ 2 BATH	1,061		1	-	-	-	1
	B4.1 B5.0	2 BDRM/ 2 BATH 2 BDRM/ 2 BATH	1,061		- 1	1	-	-	1
	B5.0 B5.1	2 BDRM/ 2 BATH 2 BDRM/ 2 BATH	1,080 1,080		-	- 1	-	-	1
	B6.0	2 BDRM/ 2 BATH	1,186		-	1	-	-	1
2 BDRM SUB-					5	6	0	0	11
3 BEDROOM	C1.0	3 BDRM/ 2 BATH	1,513		-	-	1	1	2
	C2.0	3 BDRM/ 2 BATH	1,419		-	-	1	-	1
	C3.0 C4.0	3 BDRM/ 2 BATH 3 BDRM/ 2 BATH	1,863 2,221		-	-	1 1	-	1
3 BDRM SUB-			۲.۵۵۱		0	0	4	1	5
TOTAL UNITS		Avg SqF	t 1,231		5	7	5	2	19
	sidential area i	s measured center of dem	ising wall. ext face o	of stud of ext wa	all, ext face of s	stud of corridor v	wall, excl decks	3	
Net rentable re							,		
Rentable Resi	idential by floo	· ·			5,504	7,581	7,899	2,396	
Rentable Resi	idential by floo	or (excl decks) It minus net rentable, excl o	decks)	658	5,504 544	7,581 370	7,899 355	2,396 232	
Rentable Resi Gross area by	idential by floo floor (footprin	t minus net rentable, excl o	decks)	658					
Rentable Resi Gross area by Common Spa Utilities	idential by floo floor (footprin	t minus net rentable, excl o	decks)	651 1,244	544 224 755	370 410 40	355 107 40	232 107 0	
Rentable Resi Gross area by Common Spa Utilities Garage	idential by floo floor (footprin	t minus net rentable, excl o	decks)	651 1,244 6,809	544 224 755 1,858	370 410 40 0	355 107 40 0	232 107 0 0	
Rentable Resi Gross area by Common Spa Utilities	idential by floo floor (footprin	t minus net rentable, excl o	decks)	651 1,244	544 224 755	370 410 40	355 107 40	232 107 0	



			PROJECT DATA	PROJECT DATA	
	BUILDING 1 -	BRIDGEWAY		ITEM	<u>A</u>
				<u>APN: 064 - 151 - 02</u>	
Unit		Rentable Area	PROJECT ZONING R-3 RESIDENTIAL MULTI-FAMILY HOUSING	<u>APN: 064 - 151 - 03</u>	
Total 1	8%	by Type 1,179	PARKING SUMMARY	PARCEL AREA	
1	8%	1,179	TOTAL OF 35 SPACES PROVIDED	NUMBER OF DWELLING UNITS	
1	8%	1,042	AT LEVEL 1-GARAGE: 23 REGULAR PARKING SPACES AT 9'X19'	(SDB**) PARCEL AREA/DWELLING (SMC*)	SITE ARE
1	8% 8%	1,042 1,142	1 ADA SPACES AT 9'X19'		
1	8%	1,142	AT LEVEL 2 - ON GROUND: 2 REGULAR SPACE 1 ADA SPACE	YARD SETBACKS:	(SEE A0.1
1	8%	1,061	AT LEVEL 2 - PERSONAL GARAGES:	F.Y. SETBACK	
1 1	8% 8%	1,061 1,080	7 SPACES IN TANDEM INDIVIDUAL GARAGES 10'X39' 1 ADA GARAGE AT 14'X20'	R.Y. SETBACK	
1	8%	1,080		S.Y. SETBACK (EAST) @ BRIDGEWAY	
10	77%	11,008	UNIT DENSITY CALCULATION (Per Sausalito Planning Code)	S.Y. SETBACK (EAST) @ FILBERT	5'-0" MIN
0 1	0% 8%	0 1,419	16 UNITS ON SITE OF 25,461 SF 1 DWELLING UNIT PER 1,500 SF ALLOWED	S.Y. SETBACK (WEST) @	5'+(L - 4
1	8%	1,863	25,461/1,500 SF = 16 UNITS UNIT DENSITY INCREASE PER STATE DENSITY BONUS: 19 UNITS	BRIDGEWAY S.Y. SETBACK (WEST) @ FILBERT	_
1	8%	2,221		BUILDING HEIGHT	
3 13	23%	5,503 16,511	BICYCLE PARKING INSIDE BUILDING		
10	10070	10,011	REQUIRED: 8 MINIMUM (4 PER 20 CARS) PROPOSED: 24 LONG TERM STORAGE BICYCLE PARKINS SPACES	BRIDGEWAY - BUILDING 1	GREA
			MAIL BOXES ALL USPS MAIL BOXES ARE TO BE ADA ACCESSIBLE	FILBERT - BUILDING 2	
		16,511		*HEIGHT IDENTIFICATION DIAGRAMS HIGH NATURAL GRADE MARKERS	CAN BE FC
		367		BUILDING COVERAGE:	
				AREA COVERED	
		0 120		PERCENT OF PARCEL	5
		0		BUILDING COVERAGE - SINGLE UNIT	
		16,998			
				AREA COVERED	
	BUILDING	G 2 - FILBERT		PERCENT OF PARCEL	3
		-		IMPERVIOUS SURFACE:	
Unit		Rentable Area	DATUM	AREA COVERED	
Total		by Type		PERCENT OF PARCEL	7
1 2	17% 33%	891 1,766	 HORIZONTAL DATUM IS BASED UPON RECORD DATA AND 2014 RS 114. VERTICAL DATUM IS MLLW SAUSALITO AND IS BASED UPON 2" BRASS 	IMPERVIOUS SURFACE - SINGLE UNIT	
3	50%	2,657	DISK LOCATED 400'± NORTHWESTERLY OF THE MOST NORTHERLY PROPERTY CORNER OF THE PROJECT SITE ALONG BRIDGEWAY, BEING	AREA COVERED	
1	17%	1,186	BENCHMARK RM-16 SAUSALITO ELEV.=33.76.	PERCENT OF PARCEL	6
1 2	17% 33%	1,186 3,026	3. CONTOUR INTERVAL IS 2'.		0
2	33%	3,026	4. TOPOGRAPHIC INFORMATION ON 1745 & 1757 BRIDGEWAY PARCELS IS FROM TOPOGRAPHIC SURVEY BY ILS ASSOCIATES, INC.	FLOOR AREA	
6	100%	6,869		AREA COVERED	2
				PERCENT OF PARCEL	8
			CUT & FILL CALCULATIONS	FLOOR AREA - SINGLE UNIT LIMITATI	<u>ON</u>
		6,869		AREA COVERED	
		1,134	CUT = 5,200 CUBIC YARDS FILL = 110 CUBIC YARDS	PERCENT OF PARCEL	4
		848	* SEE CIVIL DRAWINGS FOR ADDITIONAL INFORMATION	PARKING SPACES (per State Density	1 PER BE
		715		Bonus) TYPE: GARAGE	ľ
		1,858 11,424		DIMENSIONS	
	<u> </u>	· ·,- *2 * †			
				TYPE: ON-GROUND	
	AL	L BUILDINGS		DIMENSIONS	
				TYPE: PERSONAL GARAGE	
Unit		Rentable Area		DIMENSIONS	
Total	F 0/	by Type		* SMC: Sausalito Municipal Code	
1 2	5% 11%	891 1,766		** SDB: State Density Bonus	
3	16%	2,657			
1	5%	1,179			
ר 1	5% 5%	1,179 ⁻ 1,042	APPLICABLE CODES	PROJECT SITE KEY	,
1	5%	1,042			
1	5%	1,142			
1 1	5% 5%	1,142 1,061	2019 CALIFORNIA BUILDING CODE & AMENDMENTS (CBC) 2019 CALIFORNIA MECHANICAL CODE & AMENDMENTS (CMC) 2019 CALIFORNIA PLUMBING CODE & AMENDMENTS (CPC)		
1	5%	1,061	2019 CALIFORNIA PLOMBING CODE & AMENDMENTS (CPC) 2019 CALIFORNIA ELECTRICAL CODE & AMENDMENTS (CEC) 2019 CALIFORNIA ENERGY CODE		
1	5%	1,080	2019 CALIFORNIA FIRE CODE & AMENDMENTS (CFC) 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE		
1	5% 5%	1,080 1,186	2019 CALIFORNIA BUILDING CODE CHAPTER 11B		ſ
11	58%	12,194	2019 NFPA 13 2019 NFPA 14 2019 NFPA 72		
2	11%	3,026	ACCESSIBILITY		
1 1	5% 5%	1,419 1,863	100% OF UNITS SHALL BE ADAPTABLE, PER CBC 2019 CH 11A.		
1	5%	2,221	ALL COMMON USE AREAS SHALL BE ACCESSIBLE PER CBC 2019 CH 11A. ALL PUBLIC AREAS SHALL BE ACCESSIBLE PER CBC 2019 CH 11B.		JILDING ON BRIDGEWA
5	26%	8,529	-CODES USED WILL BE CODES APPLICABLE AT THE TIME		

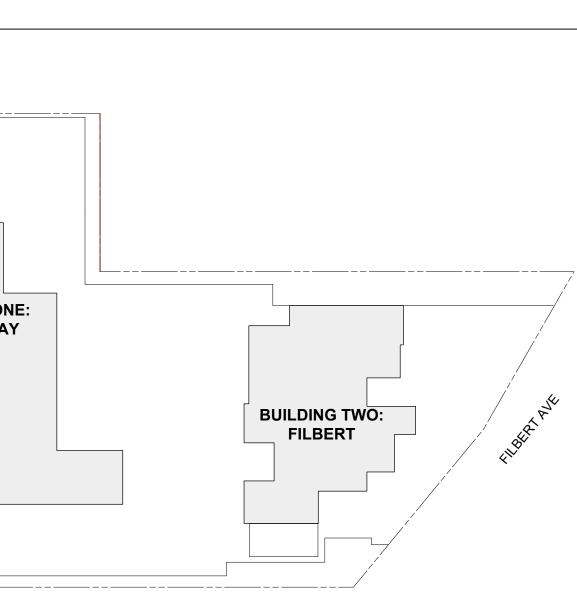
	23,380
	1,501
	848
	835
	1,858
	28,422

100%

23,380

LLOWED	EXISTING	PROPOSED
N/A	25,461 SF	25,461 SF
19 UNITS	5 UNITS TO BE DEMO'D	19 UNITS, SDE
EA/1,500 SF @ R-3	N/A	16 UNITS SF
12 FOR CALCULATIO	ONS)	
0'-0"	N/A	0'-0" & 15'-0"
15'-0"	0'-0"	15'-0"
	421.01	11'-0"
I SIDE YD. SETBK.	13'-0"	7'-0"
40')/5' = S.Y. STBK		11'-0"
	2'-0"	8'-0"
ATER THAN 10°		38'-9"
P/DOWN HILL	N/A	34'-11"
P/DOWN HILL	N/A 3.00 SHEETS. DETAIL 2/A0.15 ID	
P/DOWN HILL		
P/DOWN HILL DUND ON A0.15 & A	3.00 SHEETS. DETAIL 2/A0.15 ID	DENTIFIES LOW ANI
P/DOWN HILL DUND ON A0.15 & A 12,731 SF	3.00 SHEETS. DETAIL 2/A0.15 ID 4,803 SF	DENTIFIES LOW AND 11,783 SF
P/DOWN HILL DUND ON A0.15 & A 12,731 SF 50.0% MAX	3.00 SHEETS. DETAIL 2/A0.15 ID 4,803 SF	DENTIFIES LOW ANI 11,783 SF
DOWN HILL DUND ON A0.15 & A 12,731 SF 50.0% MAX	3.00 SHEETS. DETAIL 2/A0.15 ID 4,803 SF 18.9%	DENTIFIES LOW AND 11,783 SF 46.0%
P/DOWN HILL DUND ON A0.15 & A 12,731 SF 50.0% MAX M: 8,911 SF	3.00 SHEETS. DETAIL 2/A0.15 ID 4,803 SF 18.9%	DENTIFIES LOW AND 11,783 SF 46.0% 1,131 SF
P/DOWN HILL DUND ON A0.15 & A 12,731 SF 50.0% MAX M: 8,911 SF	3.00 SHEETS. DETAIL 2/A0.15 ID 4,803 SF 18.9%	DENTIFIES LOW AND 11,783 SF 46.0% 1,131 SF
P/DOWN HILL DUND ON A0.15 & A 12,731 SF 50.0% MAX N: 8,911 SF 35.0% MAX	3.00 SHEETS. DETAIL 2/A0.15 ID 4,803 SF 18.9% N/A N/A	DENTIFIES LOW AND 11,783 SF 46.0% 1,131 SF 12.7%
P/DOWN HILL DUND ON A0.15 & A 12,731 SF 50.0% MAX M: 8,911 SF 35.0% MAX 19,096 SF	3.00 SHEETS. DETAIL 2/A0.15 ID 4,803 SF 18.9% N/A N/A 7,612 SF	DENTIFIES LOW AND 11,783 SF 46.0% 1,131 SF 12.7% 19,090 SF
P/DOWN HILL DUND ON A0.15 & A 12,731 SF 50.0% MAX ME 8,911 SF 35.0% MAX 19,096 SF 75.0% MAX	3.00 SHEETS. DETAIL 2/A0.15 ID 4,803 SF 18.9% N/A N/A 7,612 SF	DENTIFIES LOW AND 11,783 SF 46.0% 1,131 SF 12.7% 19,090 SF
P/DOWN HILL DUND ON A0.15 & A. 12,731 SF 50.0% MAX M: 8,911 SF 35.0% MAX 19,096 SF 75.0% MAX ON:	3.00 SHEETS. DETAIL 2/A0.15 ID 4,803 SF 18.9% N/A N/A 7,612 SF 29.9%	DENTIFIES LOW AND 11,783 SF 46.0% 1,131 SF 12.7% 19,090 SF 75.0%
P/DOWN HILL DUND ON A0.15 & A 12,731 SF 50.0% MAX N: 8,911 SF 35.0% MAX 19,096 SF 75.0% MAX ON: 17,186 SF	3.00 SHEETS. DETAIL 2/A0.15 ID 4,803 SF 18.9% N/A N/A 7,612 SF 29.9%	DENTIFIES LOW AND 11,783 SF 46.0% 1,131 SF 12.7% 19,090 SF 75.0% 1,833 SF
P/DOWN HILL DUND ON A0.15 & A 12,731 SF 50.0% MAX N: 8,911 SF 35.0% MAX 19,096 SF 75.0% MAX ON: 17,186 SF	3.00 SHEETS. DETAIL 2/A0.15 ID 4,803 SF 18.9% N/A N/A 7,612 SF 29.9%	DENTIFIES LOW AND 11,783 SF 46.0% 1,131 SF 12.7% 19,090 SF 75.0% 1,833 SF

N/A	2,878 SF
N/A	11.3%
3	35 TOTAL
N/A	23 STD, 1 ADA
N/A	9'-0" X 19'-0"
N/A	2 STD, 1 ADA
N/A	9'-0" X 19'-0"
N/A	7 STD, 1 ADA
N/A	9'-0" X 19'-0"
	N/A 3 N/A N/A N/A N/A N/A



PROJECT NORTH TRUE NORTH

SHEET INDEX

VICINITY MAP

PROJE	CT INFORMATION
A0.00	PROJECT INFORMATION
A0.01	EXISTING SITE CONDITIONS
A0.10	ZONING DIAGRAMS
A0.10a	ZONING DIAGRAMS - SINGLE UNIT LIMITATION
A0.11	FLOOR AREA RATIO DIAGRAMS
A0.11a	FLOOR AREA RATIO DIAGRAMS - SINGLE UNIT LIMITATION
A0.12	BUILDING SETBACK DIAGRAM
A0.13	ENCROACHMENT DIAGRAM
A0.14	CONSTRUCTION STAGING DIAGRAM
A0.15	BUILDING HEIGHT DIAGRAM
A0.16	SHADOW STUDY DIAGRAMS
A0.17	PARKING DIAGRAMS AND ACCESSIBILITY
A0.18	PEDESTRIAN CIRCULATION DIAGRAMS

CIVIL - ON-SITE DEMO AND EXCAVATION PLAN

	SITEWORK
C1	GRADING AND DRAINAGE PLAN
C2	EROSION CONTROL PLAN
C3	TREE REMOVAL PLAN
C4	TURNING STUDY PLAN
C5	NOTES AND DETAILS
C6	DRAINAGE MANAGEMENT AREA PLAN
C7	STORY POLES PLAN
C8	STORY POLE ELEVATIONS
VTM1	VESTING TENTATIVE MAP - LOT MAP & NOTES
VTM2	VESTING TENTATIVE MAP - SITE & UTILITY PLAN
VTM3	VESTING TENTATIVE MAP - EXISTING TOPOGRAPHIC MAP
VTM4	VESTING TENTATIVE MAP - EXISTING TOPOGRAPHIC MAP
VTM5	VESTING TENTATIVE MAP - EXISTING TOPOGRAPHIC MAP
	<u>CAPE</u>
_1.1	PRELIMINARY LANDSCAPE PLAN GROUND FLOOR
_1.2	PRELIMINARY LANDSCAPE PLAN SECOND FLOOR
_2.1	PRELIMINARY PLANTING PLAN GROUND FLOOR
_2.2	PRELIMINARY PLANTING PLAN SECOND FLOOR
_2.3 _3.1	PRELIMINARY PLANT PALETTE PRECEDENT IMAGES & FURNISHINGS
_3.1 _3.2	BRIDGEWAY ELEVATION
_3.2 _4.1	PHOTOMETRIC PLAN-GROUND FLOOR
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_4.2 _5.1	ARBORIST'S MAP
	IECTURAL
A1.00	BUIDLING SITE PLAN - GROUND LEVEL
A1.01	BUILDING SITE PLAN - ROOF LEVEL
42.01	CONCEPTUAL BUILDING PLAN - GARAGE
42.02	CONCEPTUAL BUILDING PLAN - FLOOR 2
42.03	CONCEPTUAL BUILDING PLAN - FLOOR 3
42.04	CONCEPTUAL BUILDING PLAN - FLOOR 4
42.05	CONCEPTUAL BUILDING PLAN - FLOOR 5
42.06	CONCEPTUAL BUILDING PLAN - ROOF PLAN
43.00	CONCEPTUAL ELEVATIONS
43.01	
43.02	
A3.10 A3.11	CONCEPTUAL BUILDING SECTIONS CONCEPTUAL BUILDING SECTIONS
43.20	CONCEPTUAL RENDERINGS
43.20 43.21	CONCEPTUAL RENDERINGS
43.22	CONCEPTUAL RENDERINGS
43.30	MATERIAL BOARD
4.00	UNIT PLANS
44.01	UNIT PLANS
44.02	UNIT PLANS
44.03	UNIT PLANS

P: (415) 88 CONTACT
PROJ
THE PROJ BRIDGEWA ACCESSEI SEPARATE TYPE 1A C
EACH BUIL PARTIALLY BUILDING BUILDING OF 19 UNIT
THIS MULT FOR-SALE THROUGH OF ONE, T OF THE UN TO MODEF
THE CONE PARKING (PARKING. ONE-BEDF WHILE TW A TWO TO
THE PROJ DENSITY E RATIO.
THE PROJ

THE PROJECT WOULD REPLACE FOUR DILAPIDATED STRUCTURES AND BOOST THE NUMBER OF MUCH NEEDED HOUSING UNITS ON THIS UNDER-UTILIZED LOT. THE PROJECT IS IN LINE WITH THE HIGH-DENSITY RESIDENTIAL CHARACTER OF THIS NEIGHBORHOOD AND WOULD PROVIDE CONTINUITY TO BRIDGEWAY'S CITYSCAPE. THE PROJECT HAS BEEN DESIGNED TO KEEP VIEWS IN MIND FROM FILBERT AND THE RESIDENCES ABOVE AND USES MATERIALS AND COLORS NATIVE TO SAUSALITO.

05.04.2022



PROJECT TEAM

OWNER: SY JADINES 1821 AHSTON AVE BURLINGAME, CA 94010 CONTACT: FENG XUE, AMY CHAN ARCHITECT: BDE ARCHITECTURE 950 HOWARD STREET SAN FRANCISCO, CA 94103 P: 415.677.0966 CONTACT: JON ENNIS LANDSCAPE ARCHITECT: JETT LANDSCAPE ARCHITECTURE & DESIGN 2 Orinda Theatre Square #218, Orinda, CA 94563 P: (925) 254-5422 CONTÁCT: BRUCE JETT CIVIL ENGINEER: ILS ASSOCIATES INC 70 Mitchell Blvd, # 105 San Rafael, CA 94903) 883-9200

T: STEVE SCHMIDT

DJECT DESCRIPTION

DJECT IS LOCATED ON THE HILLSIDE BETWEEN WAY AND FILBERT ON A STEEP 25,461 SQFT LOT ED FROM BRIDGEWAY AND CONCISTS OF TWO TE FOUR-LEVEL BUILDINGS OF TYPE 5A OVER CONSTRUCTION.

LDING HAS THREE RESIDENTIAL LEVELS OVER A LY UNDERGROUND LEVEL OF PARKING.THE G FACING BRIDGEWAY HOLDS 13 UNITS AND THE G FACING FILBERT HOLDS 6 UNITS FOR A TOTAL NITS.

TI-FAMILY CONDOMINIUM PROJECT OFFERS E UNITS: 16 UNITS BY SMC AND 3 EXTRA UNITS H DENSITY BONUS LAW. THE UNIT MIX CONCISTS TWO AND THREE-BEDROOM UNITS WHERE 21% JNITS WILL BE BELOW MARKET UNITS OFFERED ERATE INCOME FAMILIES.

IDOMINIUMS ARE PARKED IN A MIX OF COMMON GARAGE, PRIVATE GARAGES AND AT GRADE 6. 35 PARKING SPACES ARE OFFERED. ROOM UNITS ARE PARKED AT ONE TO ONE, WO AND THREE-BEDROOM UNITS ARE PARKED AT ONE RATIO.

DJECT REQUESTS TWO EXEMPTIONS PER BONUS LAW, FOR HEIGHT AND FOR FLOOR AREA

THIS CENTRAL LOCATION PROVIDES QUICK ACCESS TO THE FREEWAY AND PUBLIC TRANSPORTION.

P R O J E C T I N F O R M A TIO N

A0.00



(SITE OUTLINE IS SHOWN DIAGRAMMATICALLY)



(SITE OUTLINE IS SHOWN DIAGRAMMATICALLY)



PROJECT RENDERING - LOOKING NORTH 4

EXISTING SITE CONDITIONS - LOOKING EAST 2



(SITE OUTLINE IS SHOWN DIAGRAMMATICALLY)



(SITE OUTLINE IS SHOWN DIAGRAMMATICALLY)

EXISTING SITE CONDITIONS - LOOKING SOUTH 3

EXISTING SITE CONDITIONS - LOOKING WEST

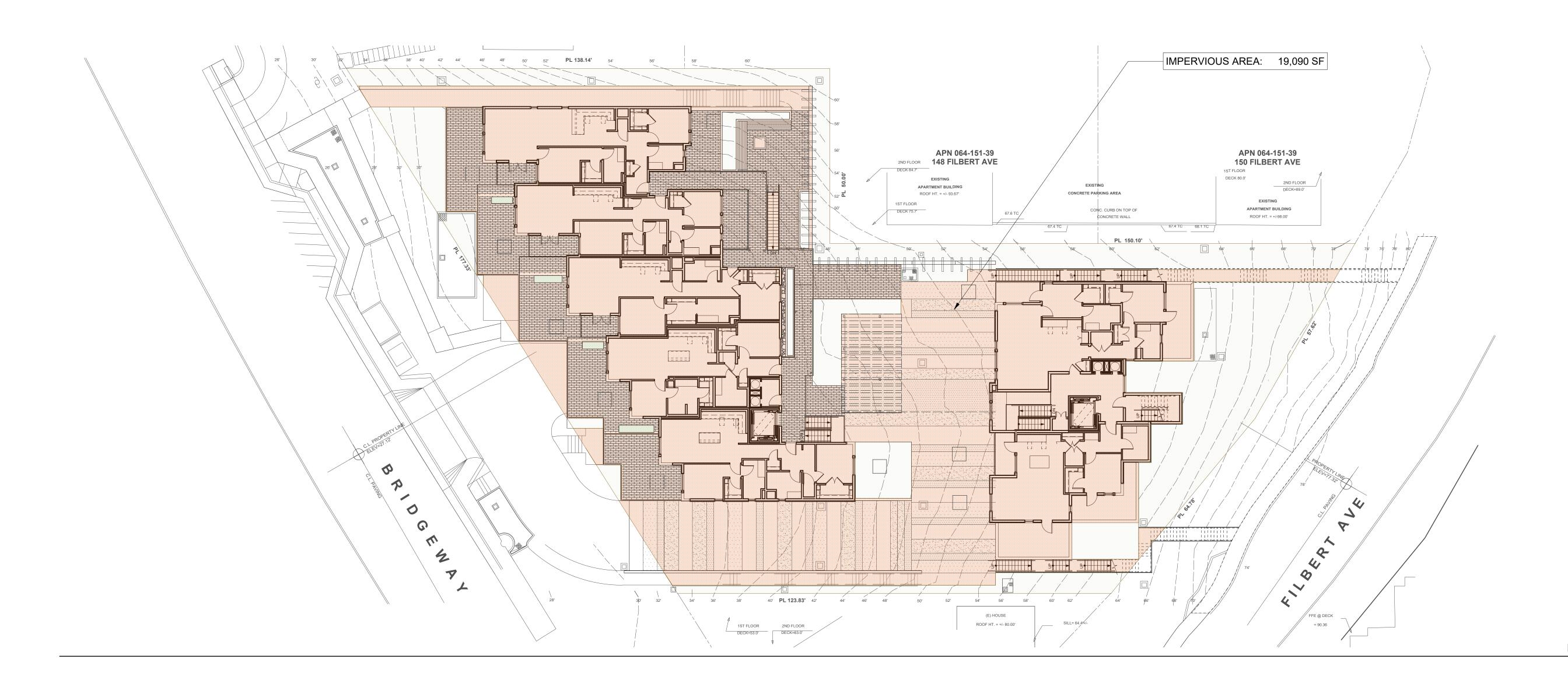
KEY PLAN:

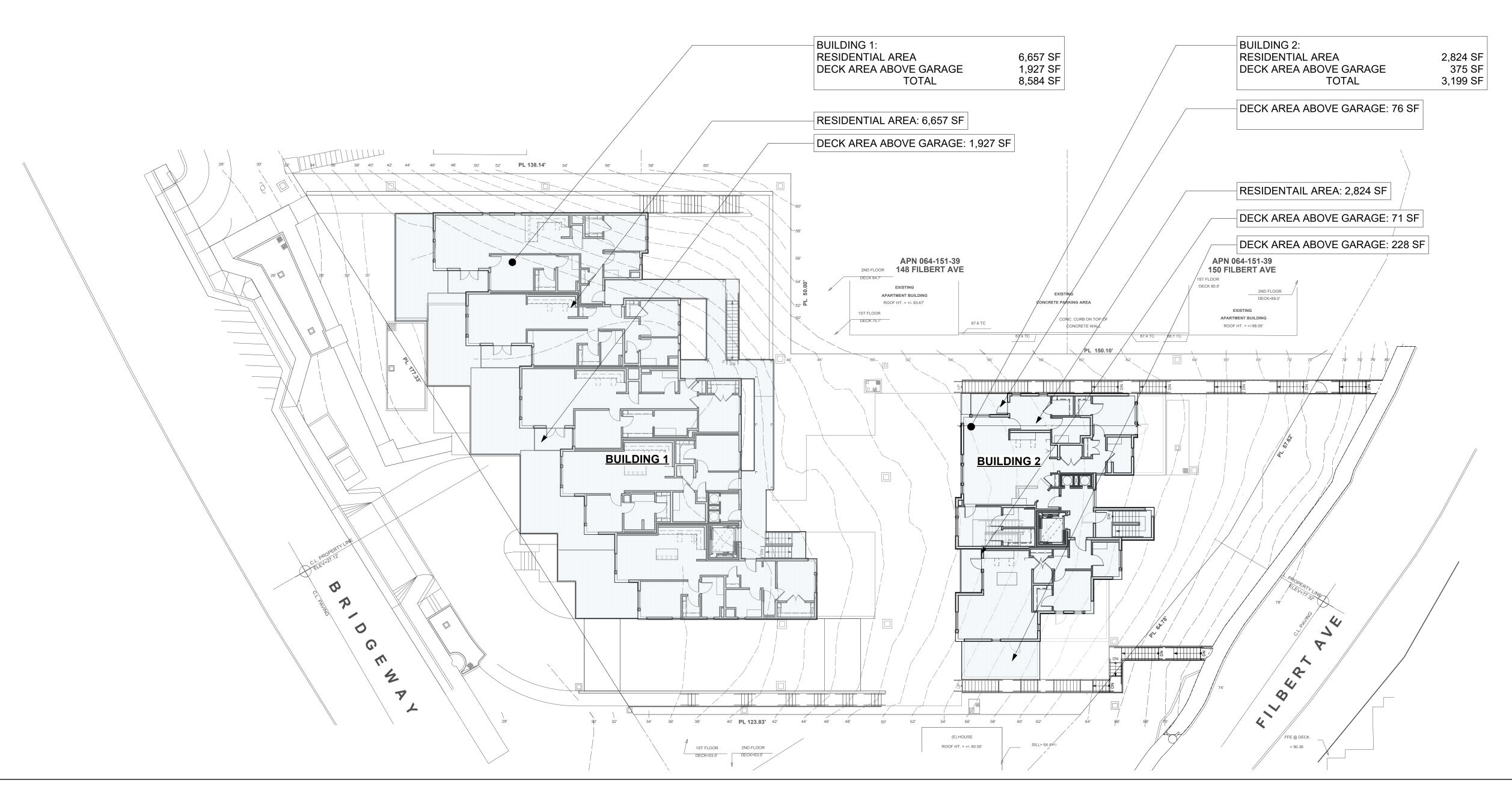
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A0.01







PROJECT NORTH TRUE NORTH

PERMEABI LOT AREA

ALLOWABLE IM ALLOWED IMPE

PERMEABILITY RATIO IMPERVIOUS SF

TOTAL IMPERVI

AREA KEY:

PERVIOUS SURFACE IMPERVIOUS SURFACE

PERMEABILITY DIAGRAM 2 1/16" = 1'-0"

BUILDING COVERAGE LOT AREA ALLOWABLE BL ALLOWED BLD BLDG. COVERA **BUILDING 1 BUILDING 2** TOTAL BLDG CO

RATIO (11,783 S

AREA KEY:

BUILDING COVERAGE

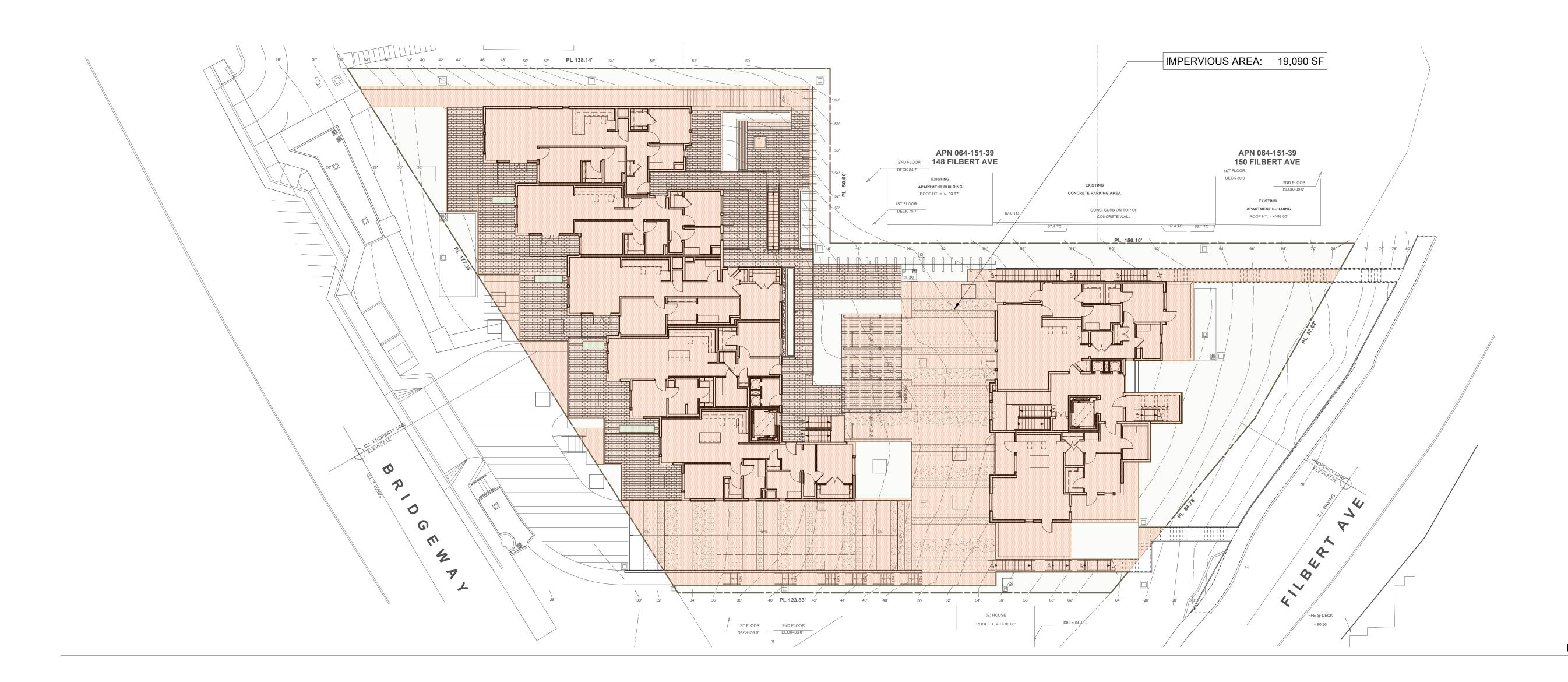
BUILDING COVERAGE DIAGRAM 1/16" = 1'-0"

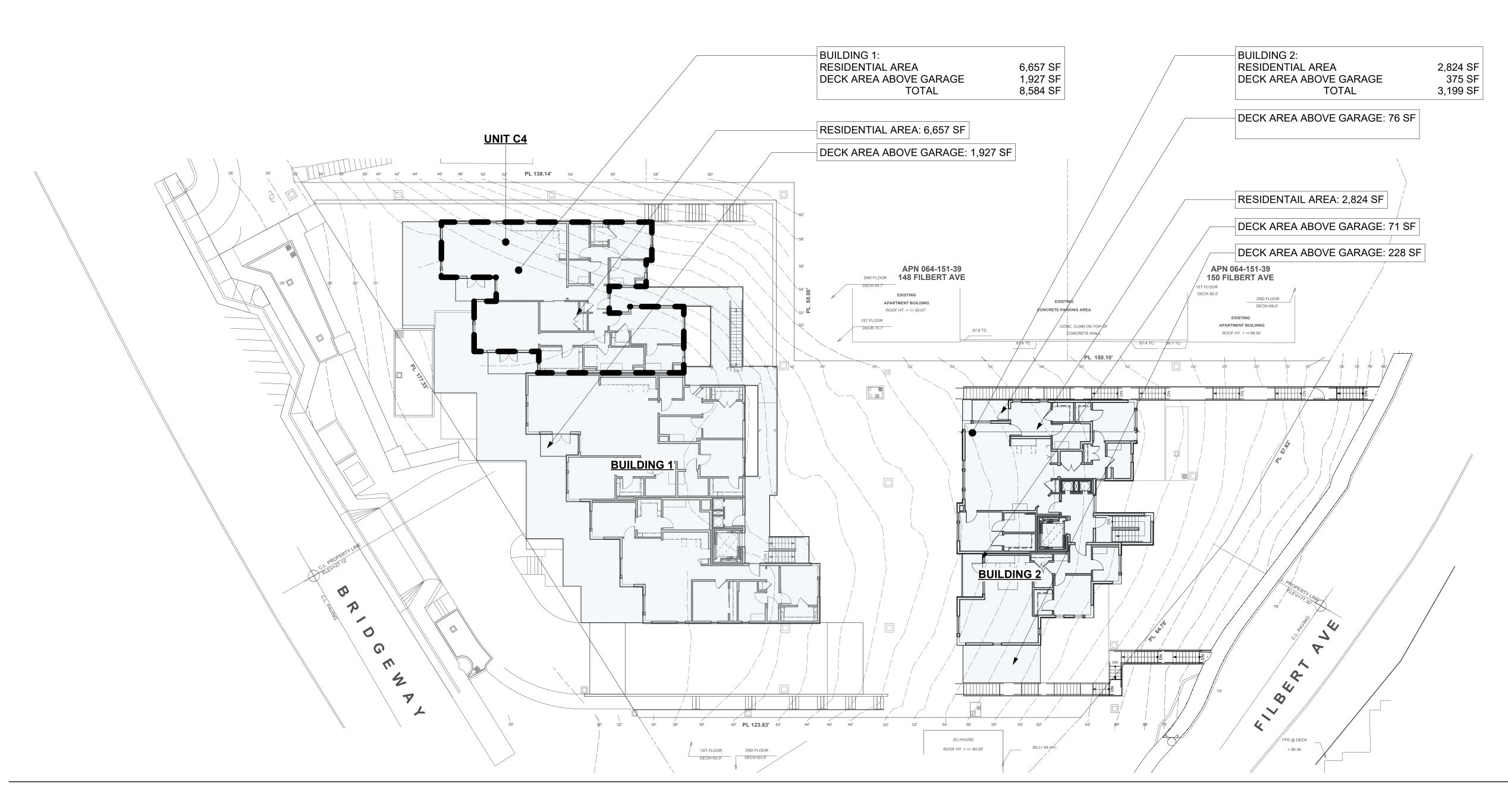
	25,461 SF
LDG. COVERAGE MAX.	0.5
G. COVERAGE	12,731 SF
AGE PROPOSED:	
	8,584 SF
	3,199 SF
OVERAGE	11,783 SF
SF/ 25,461SF)	0.46

ZONING DIAGRAMS

A0.10

ILITY	
	25,461 SF
IPERVIOUS SRF. MAXIMUM	75%
ERVIOUS SRF.	19,096 SF
Y CALCULATIONS	
	75%
SRF.	19,090 SF
VIOUS SRF.:	19,090 SF







PROJECT NORTH TRUE NORTH

AREA KEY:

PERMEABILITY DIAGRAM 1/16" = 1'-0"

> SINGLE UNIT F LARGEST UNIT ARE TOTAL UNIT AREA PERCENTAGE OF TO

BUILDING COVER

LOT AREA ALLOWABLE SINGLE UNIT ALLOWED SINGLE UNIT

SINGLE UNIT COVERAGE RATIO OF SINGLE UNIT **BLDG COVERAGE** TOTAL COVERAGE PER

AREA KEY:

BUILDING COVERAGE DIAGRAM 1/16" = 1'-0"

ZONING DIAGRAMS - SINGLE UNIT LIMITATION

BUILDING COVERAGE

AGE - SINGLE UNIT		
	25,461 SF	
IT COVERAGE MAX.	0.35	
COVERAGE	8,911 SF	
E PROPOSED:		
	9.6%	
	11,783 SF	
SINGLE UNIT	1,131 SF	

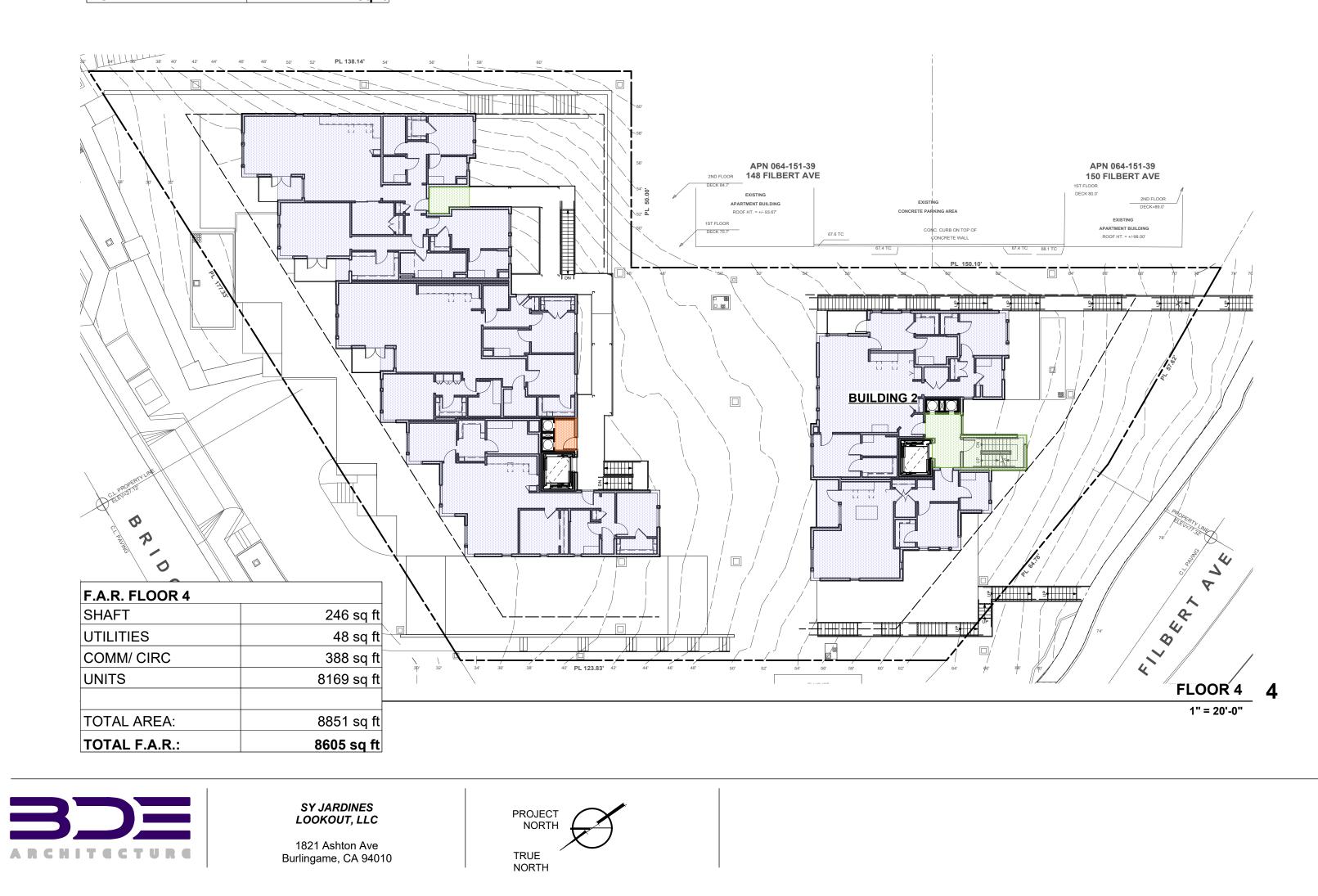
A 0.10a

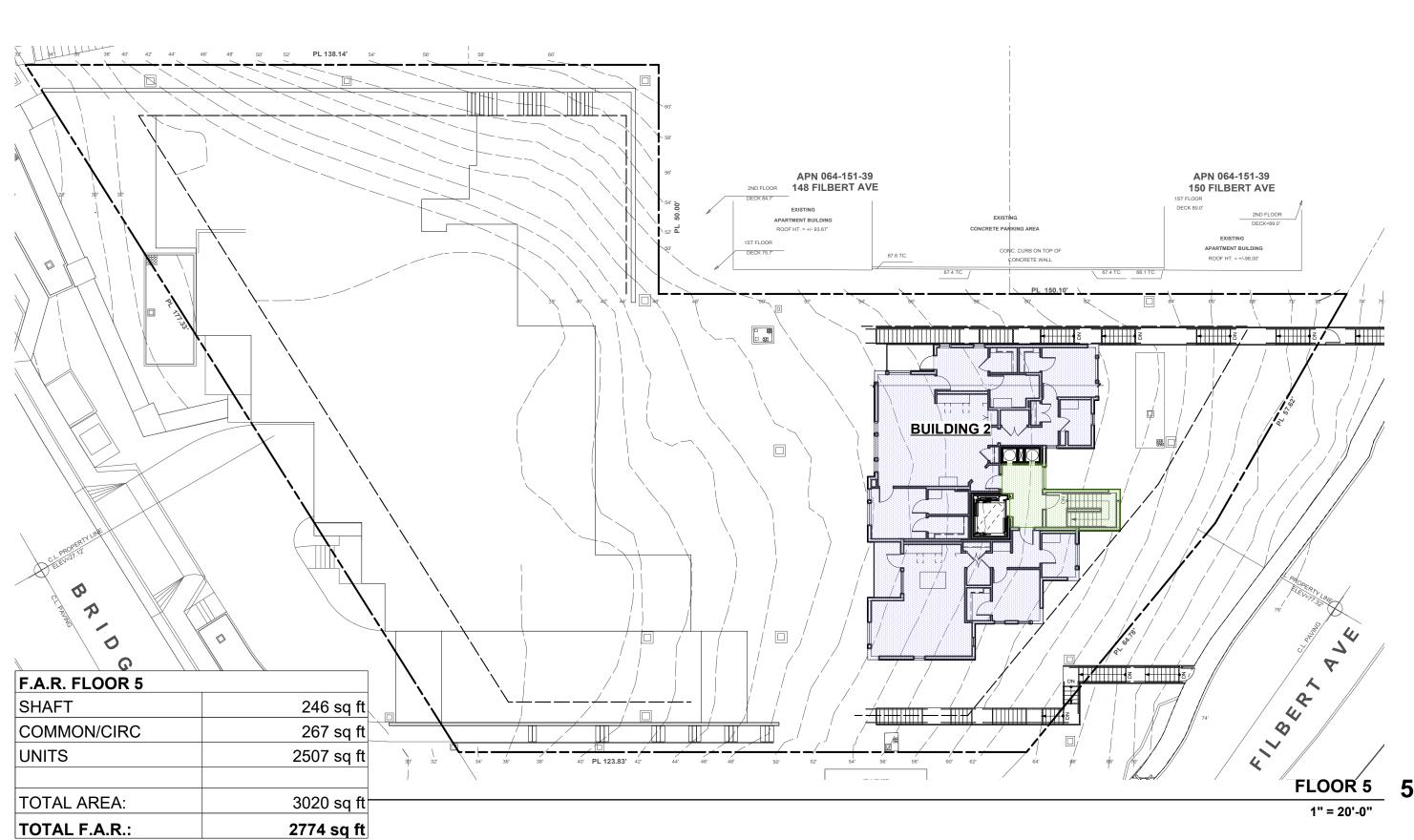
RAGE - SINGLE UNIT			
	25,461 SF		
IT COVERAGE MAX.	0.35		
COVERAGE	8,911 SF		
E PROPOSED:			
	9.6%		
	11,783 SF		
SINGLE UNIT	1,131 SF		

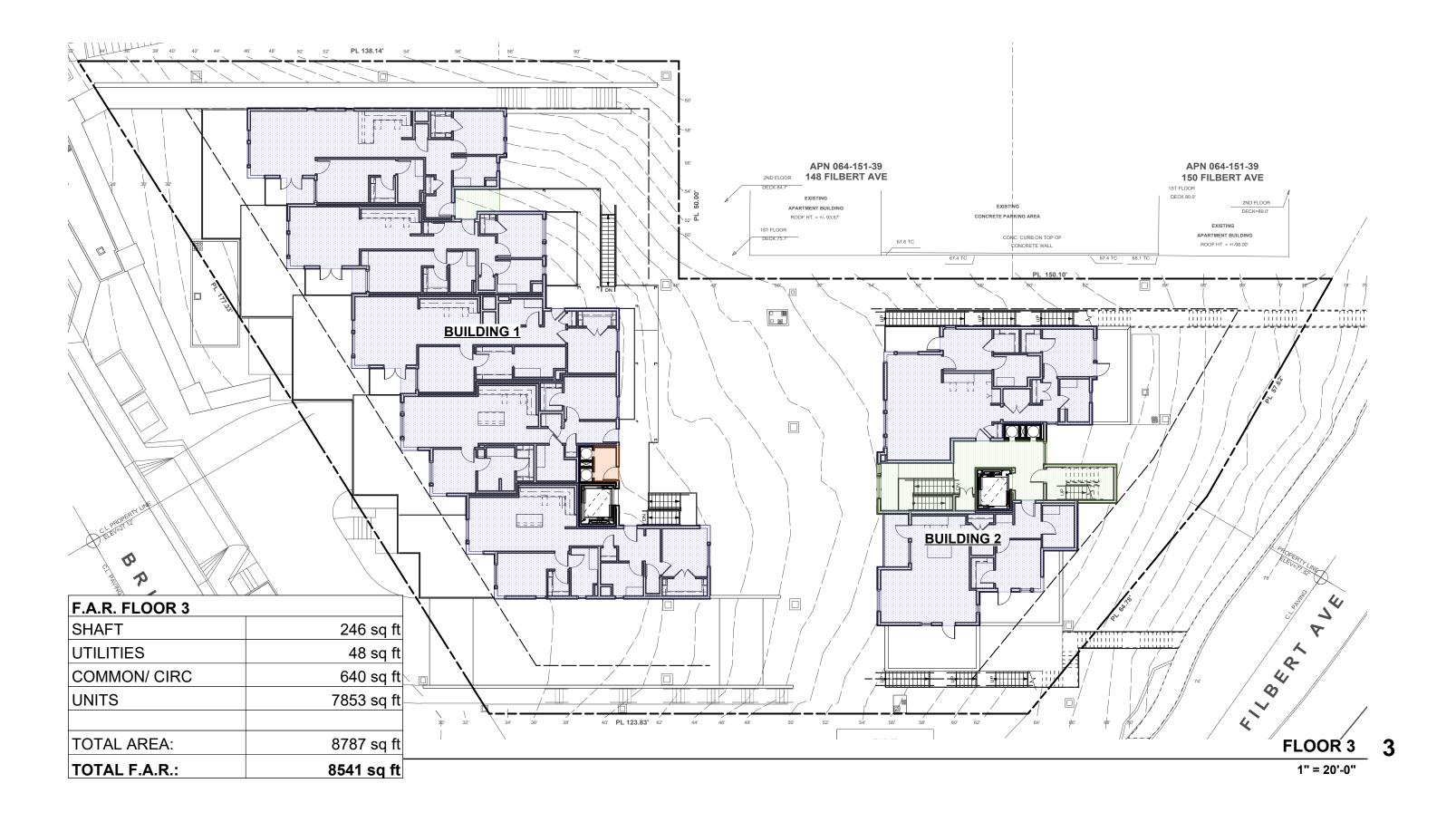
PRORATED CALC	ULATION
A (UNIT C4)	2,221 SF
	2,221 SF
A (UNIT C4)	2,221 SF 23,029 SF
A (UNIT C4)	2,221 SF 23,029 SF
A (UNIT C4)	2,221 SF 23,029 SF
A (UNIT C4)	2,221 SF 23,029 SF
A (UNIT C4)	2,221 SF 23,029 SF

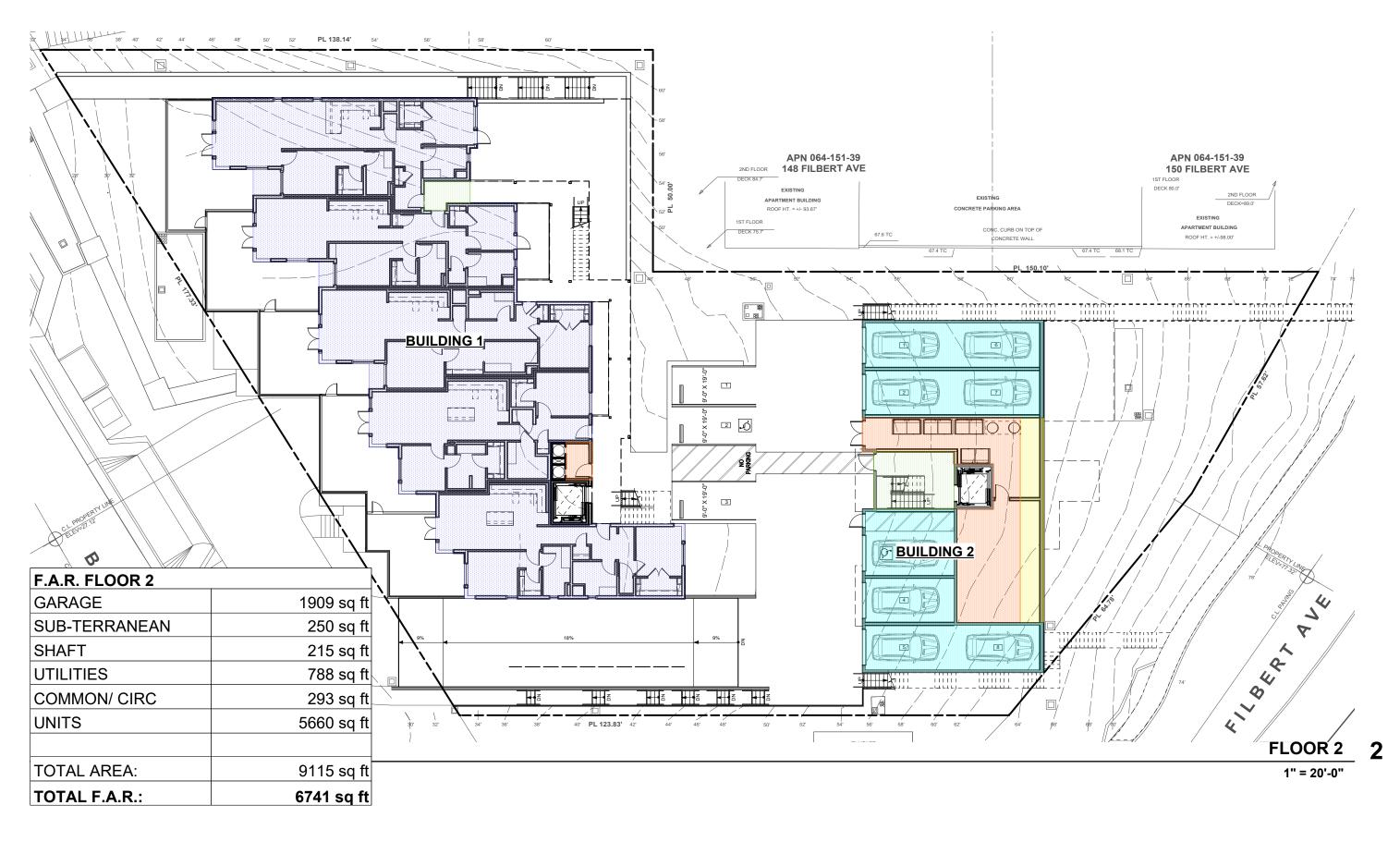
PERVIOUS SURFACE IMPERVIOUS SURFACE

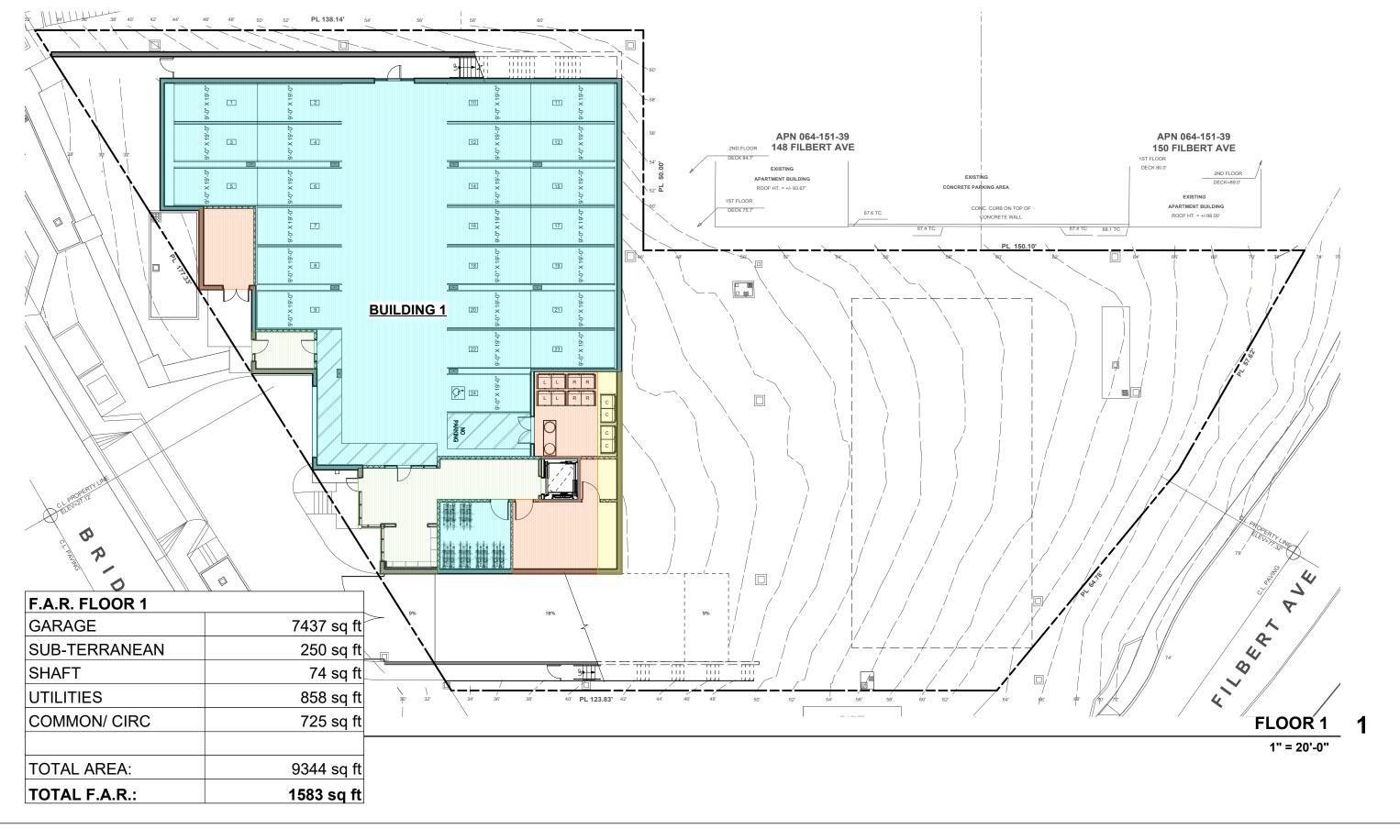
PERMEABILITY - SINGLE UNIT				
LOT AREA	25,461 SF			
ALLOWABLE IMPERVIOUS SRF. MAXIMUM	67.5%			
ALLOWED IMPERVIOUS SRF.	17,186 SF			
PERMEABILITY PROPOSED				
RATIO OF SINGLE UNIT	9.6%			
IMPERVIOUS SRF.	19,090 SF			
TOTAL IMPERVIOUS SRF.:	1,833 SF			











AREA KEY:

EXCL.
INCL.
INCL.
INCL.
INCL.
UNCE.
EXCL. N
EXCL.
-
FLOOK AR
FLOOR AR
ALLOWABLE F.A
ALLOWED F.A.I

FLOOR AREA RATIO	
LOT AREA	25461 sq ft
ALLOWABLE F.A.R. MAXIMUM	80%
ALLOWED F.A.R.	20369 sq ft
F.A.R. CALCULATIONS	
FLOOR 1	1583 sq ft
FLOOR 2	6741 sq ft
FLOOR 3	8541 sq ft
FLOOR 4	8605 sq ft
FLOOR 5	2774 sq ft
TOTAL F.A.R.:	28244 sq ft

FLOOR AR

2	0	2	2
Ζ	υ	Ζ	Ζ

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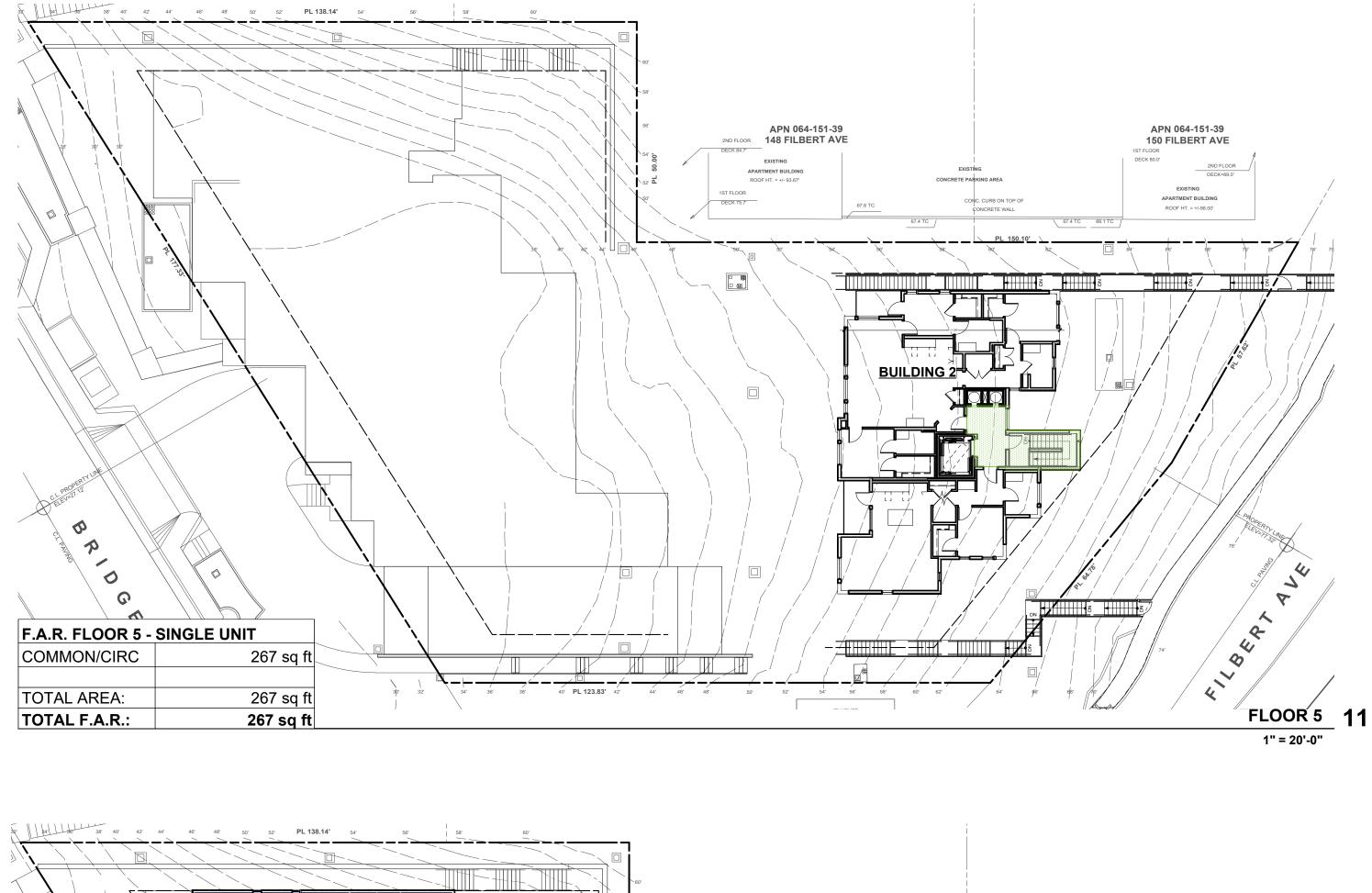
	ΕA	RATIO	DIAGRAI	M S
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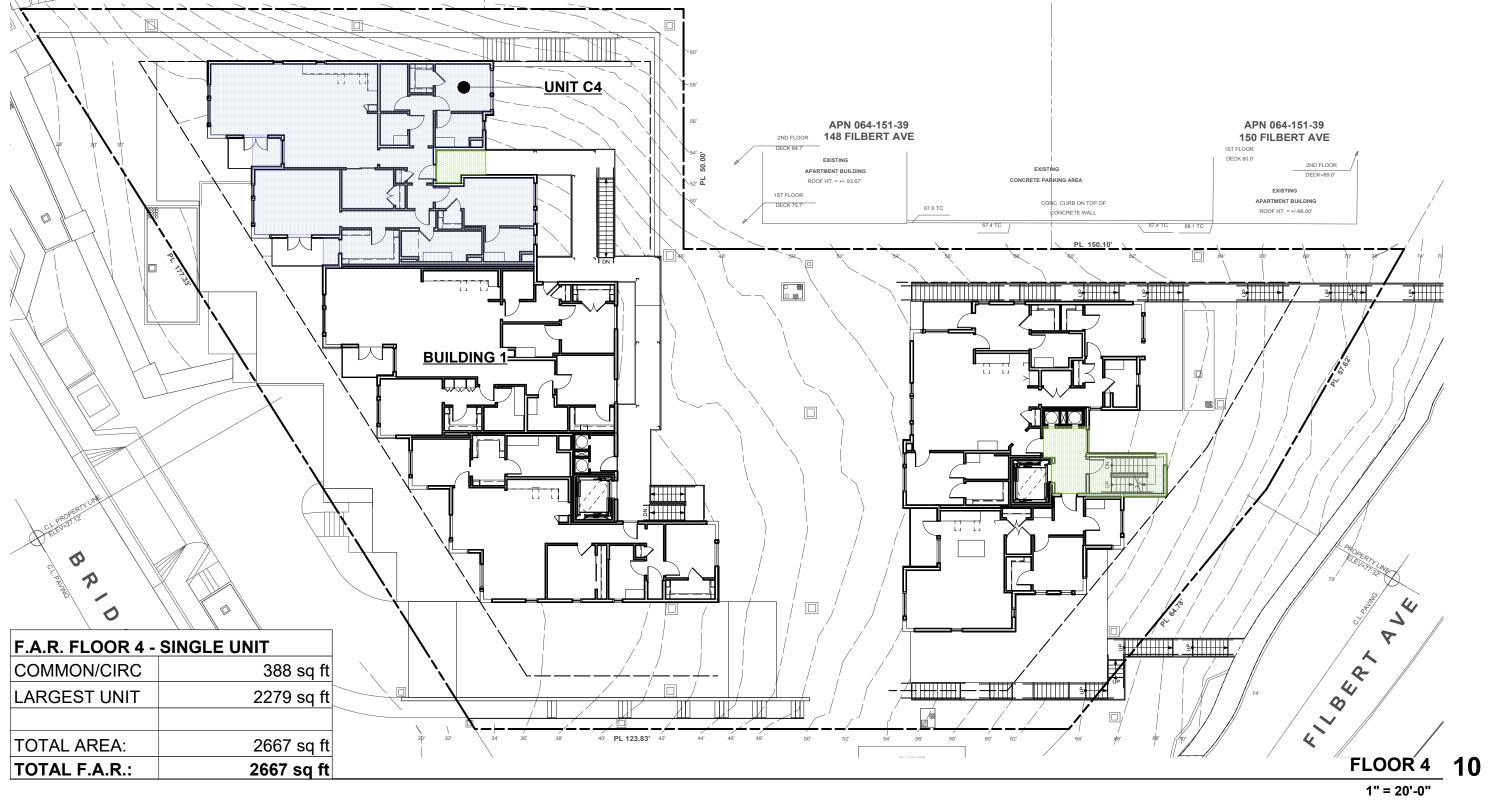
MAX 500 SF SUB-TERRANEAN UNENCLOSED/ SHAFT AREAS

UNITS

UTILITIES COMMON SPACE/ CIRCULATION

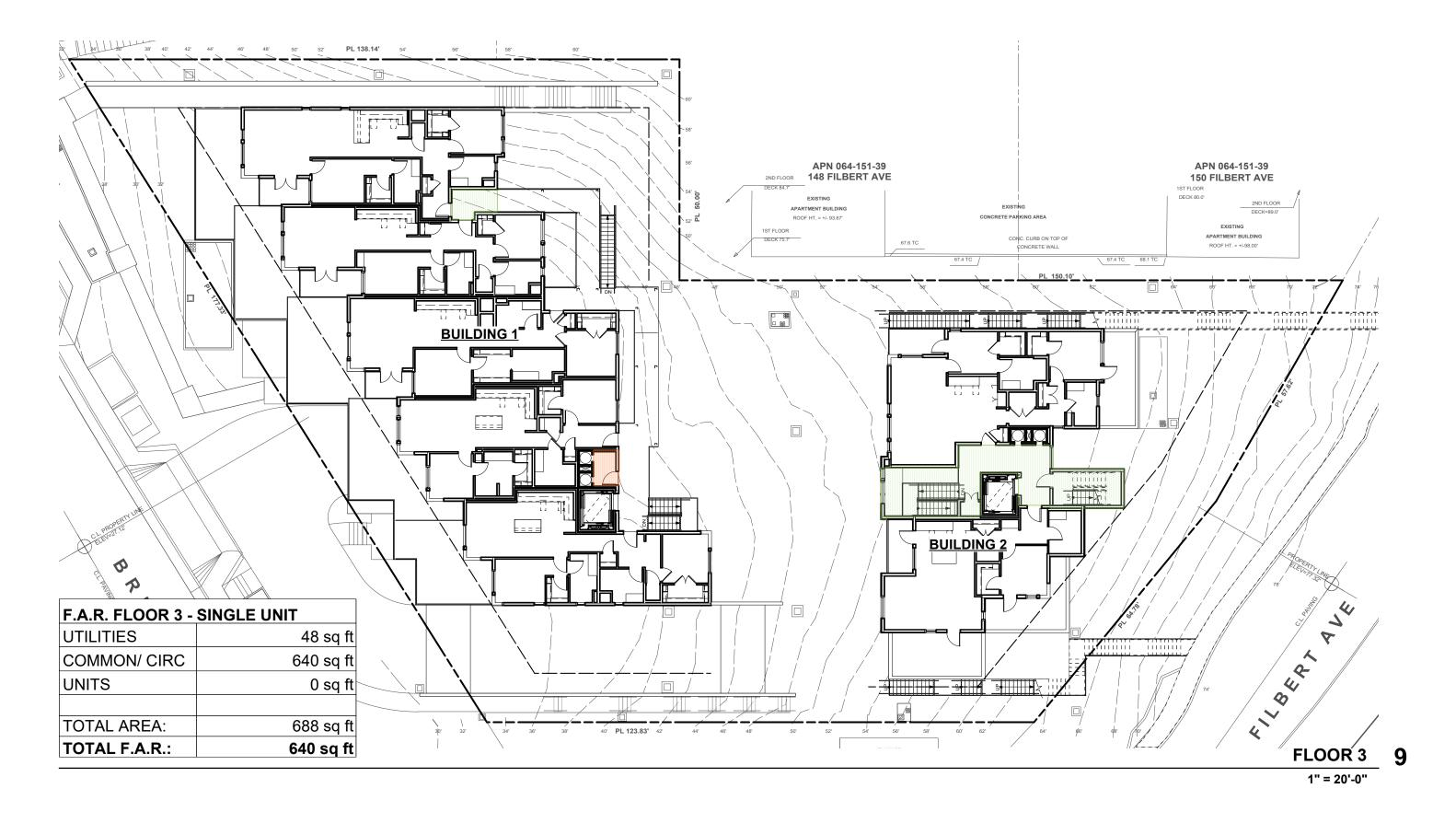
GARAGE/PARKING

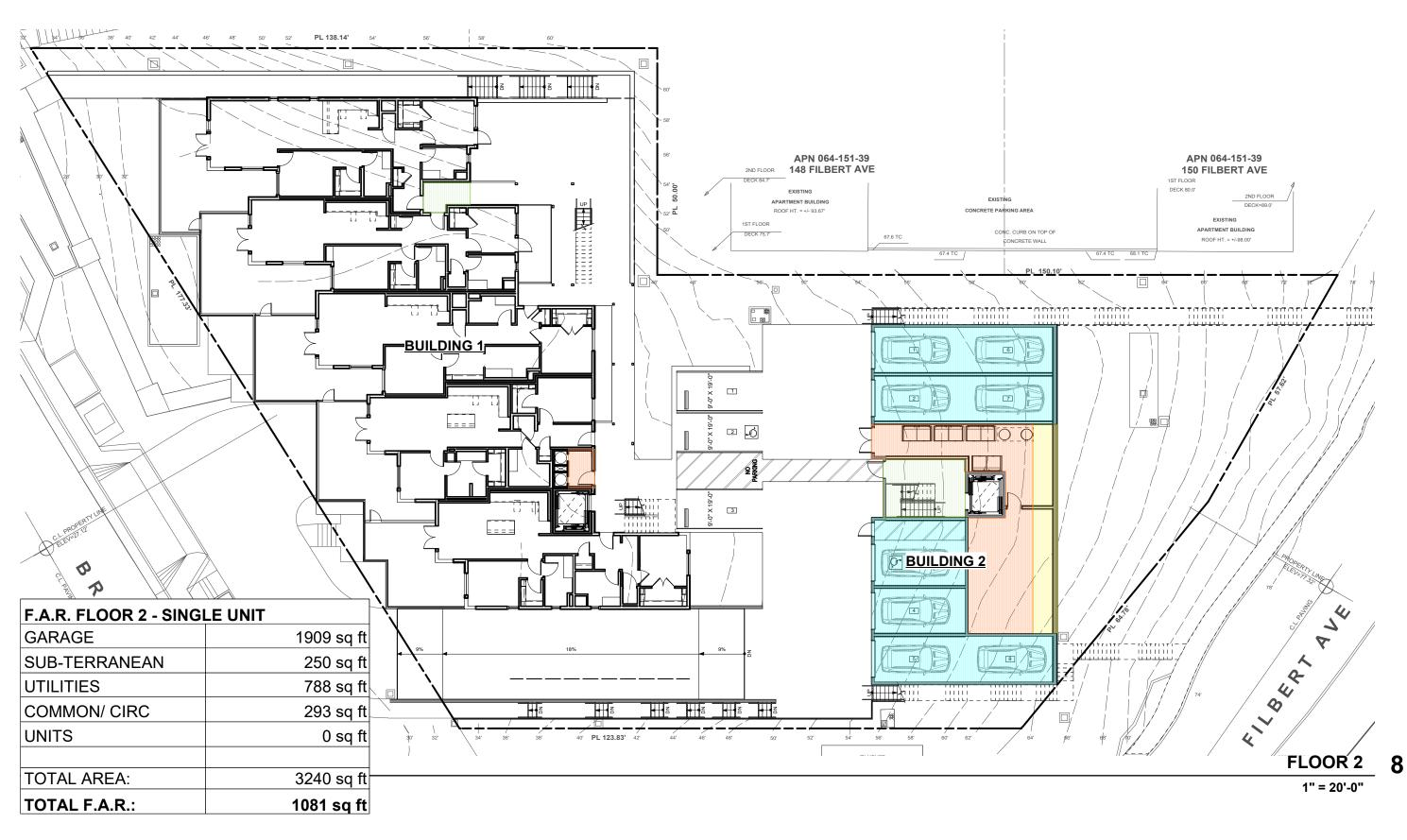


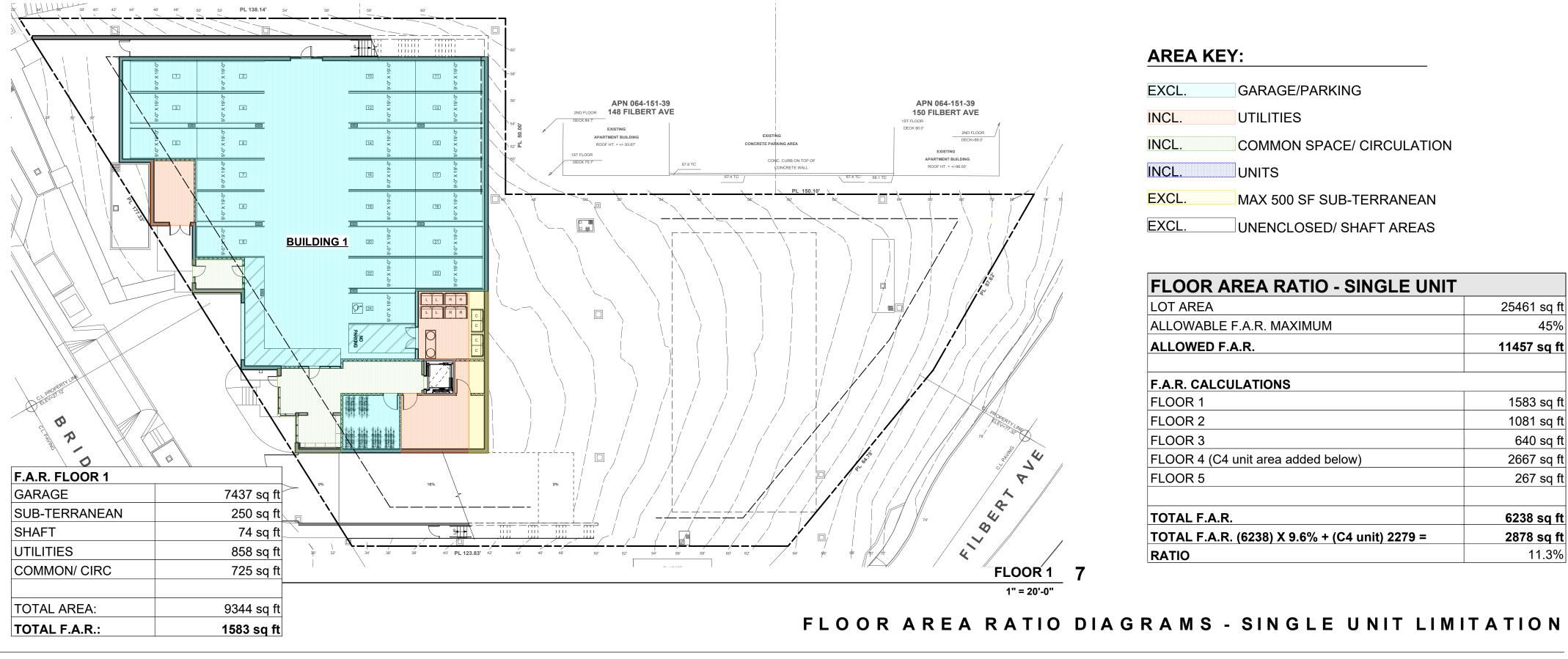




PROJECT NORTH TRUE NORTH







AREA KEY:

EXCL.	GARAGE
INCL.	UTILITIE
INCL.	СОММО
INCL.	UNITS
EXCL.	MAX 500
EXCL.	UNENCL

FLOOR AREA RATIO - SINGLE UNIT

LOT AREA	25461 sq ft
ALLOWABLE F.A.R. MAXIMUM	45%
ALLOWED F.A.R.	11457 sq ft
F.A.R. CALCULATIONS	
FLOOR 1	1583 sq ft
FLOOR 2	1081 sq ft
FLOOR 3	640 sq ft
FLOOR 4 (C4 unit area added below)	2667 sq ft
FLOOR 5	267 sq ft
TOTAL F.A.R.	6238 sq ft
TOTAL F.A.R. (6238) X 9.6% + (C4 unit) 2279 =	2878 sq ft
RATIO	11.3%

	2	0	2	2
•	2	U	2	2

A 0.11a

0 SF SUB-TERRANEAN LOSED/ SHAFT AREAS

ON SPACE/ CIRCULATION

E/PARKING

*** REDUCED SET BACK**

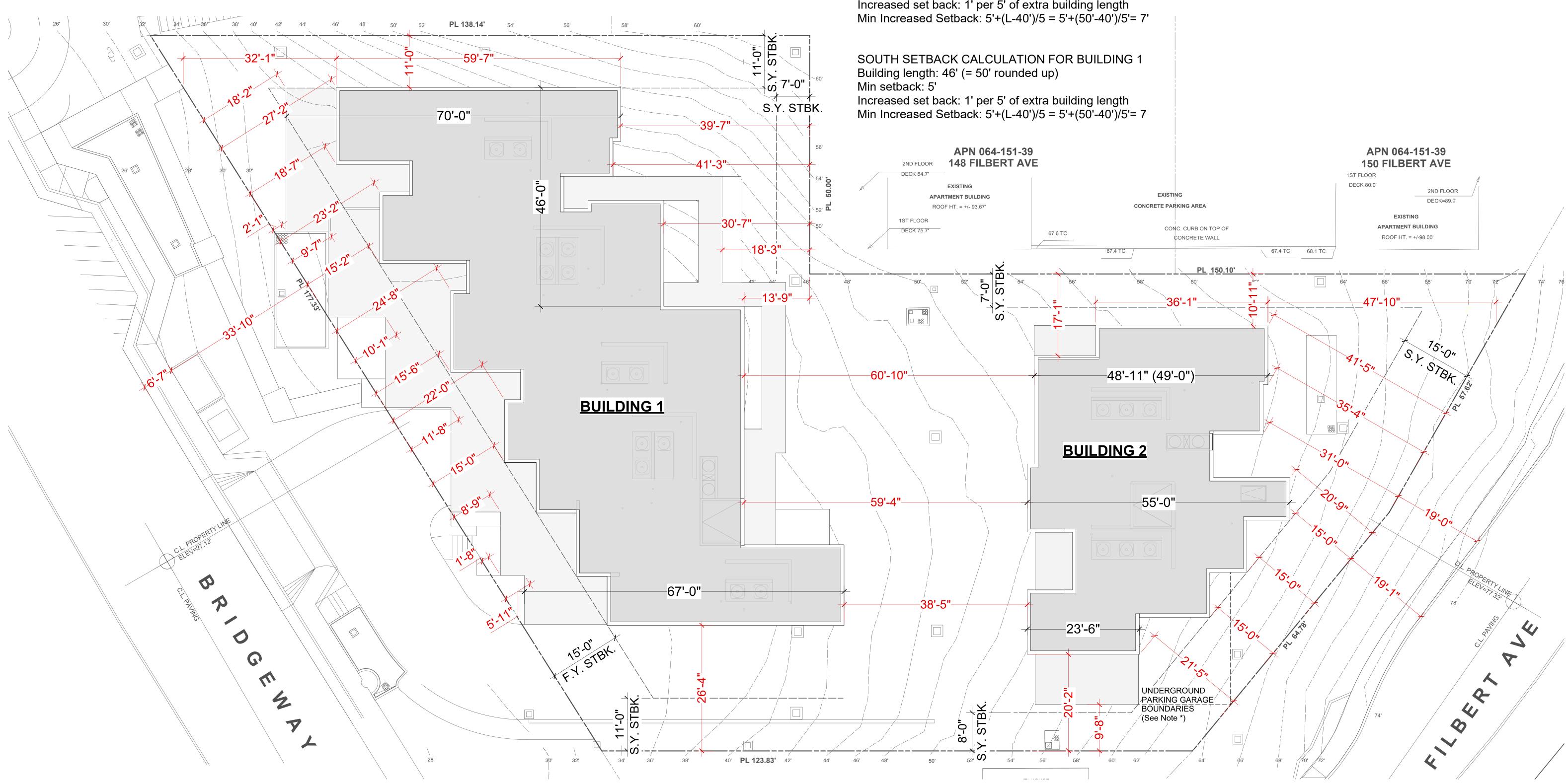
PER 10.40.070-A, SETBACKS' GENERAL PURPOSE ARE

1) TO PROVIDE LIGHT AND OPEN SPACE BETWEEN STRUCTURES ON THE SAME AND ADJOINING LOTS 2) TO PROVIDE OPEN SPACE BETWEEN STRUCTURES AND ADJOINING PEDESTRIANS WAYS 3) TO INCREASE SETBACKS AND PROVIDE VISUAL RELIEF ALONG PROPERTY LINES WITH LONG UNBROKEN WALLS 4) TO PROVIDE FLEXIBILITY IN THE APPLICATION AND SETBACK REQUIREMENTS

PER 10.40.070-C2.2, FOR PARCELS FRONTING ON MORE THAN ONE STREET WITH A RIGHT OF WAY LARGER THAN 50 FEET, SETBACKS MAY BE DECREASED FOR PARCELS FRONTING ON TWO NON-INTERSECTING STREETS, ..., PROVIDED THE PROPOSAL IS SUBJECT TO DESIGN REVIEW AND THE PLANNING COMMISSION FINDS THE REDUCED SETBACK DOES NOT DIMINISH THE OVERALL PURPOSE OF PROVIDING PHYSICAL AND VISUAL SPACE BETWEEN RESIDENCES. THE PROPOSED SETBACK MEETS THOSE REQUIREMENTS.

PER 10.40.40-C, EXCEPTIONS TO REQUIRED SETBACKS, ACCESSORY STRUCTURES AND BUILDINGS MAY OCCUPY REQUIRED YARD AREAS ONLY TO THE EXTENT PERMITTED BY 10.44.020 (ACCESSORY USES AND STRUCTURES)

PER 10.44.020-B.8, PRIVATE GARAGES, CARPORTS AND PARKING AREAS ARE EXEMPT.





SY JARDINES LOOKOUT, LLC 1821 Ashton Ave Burlingame, CA 94010

PROJECT NORTH TRUE NORTH



Per 10.40.070 Setbacks, Chapter D.1: Length of Building. The length of a structure shall be measured along a line parallel to the adjoining side lot line. Where the length of a structure, building wall, or series of attached building walls exceeds 40 feet measured parallel to the adjoining side lot line, the minimum setback shall be increased at the rate of one foot for each five feet such length exceeds 40 feet. The full length of the building shall be subject to the increased setback. If the addition will increase the building length to exceed 40 feet, only the addition shall require the additional side yard setback. The full length of the addition shall be subject to the increased setback.

EAST SETBACK CALCULATION FOR BUILDING 1 Building length: 70'

Min setback: 5'

Increased set back: 1' per 5' of extra building length Min Increased Setback: 5'+(L-40')/5 = 5'+(70'-40')/5'= 11'

EAST SETBACK CALCULATION FOR BUILDING 2 Building length: 49' (= 50' rounded up) Min setback: 5'

Increased set back: 1' per 5' of extra building length

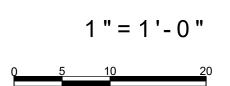
WEST SETBACK CALCULATION FOR BUILDING 1 Building length: 67' (= 70' rounded up) Min setback: 5'

Increased set back: 1' per 5' of extra building length Min Increased Setback: 5'+(L-40')/5 = 5'+(70'-40')/5'= 11'

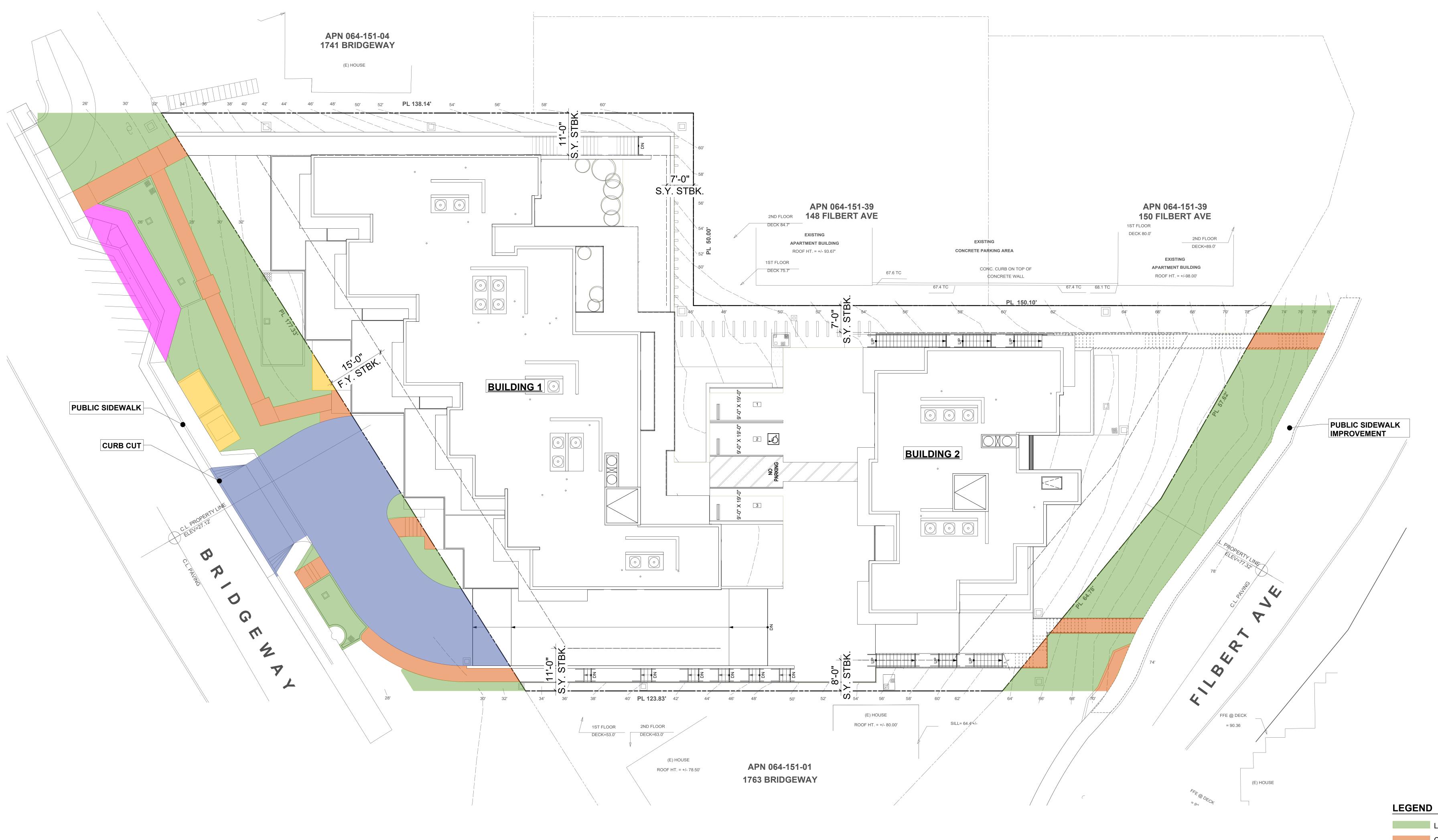
WEST SETBACK CALCULATION FOR BUILDING 2 5' setback required

Calculation at worst case scenario: Building length: 55' Min setback: 5'

Increased set back: 1' per 5' of extra building length Min Increased Setback: 5'+(L-40')/5 = 5'+(55'-40')/5'= 8'



BUILDING SETBACK DIAGRAM



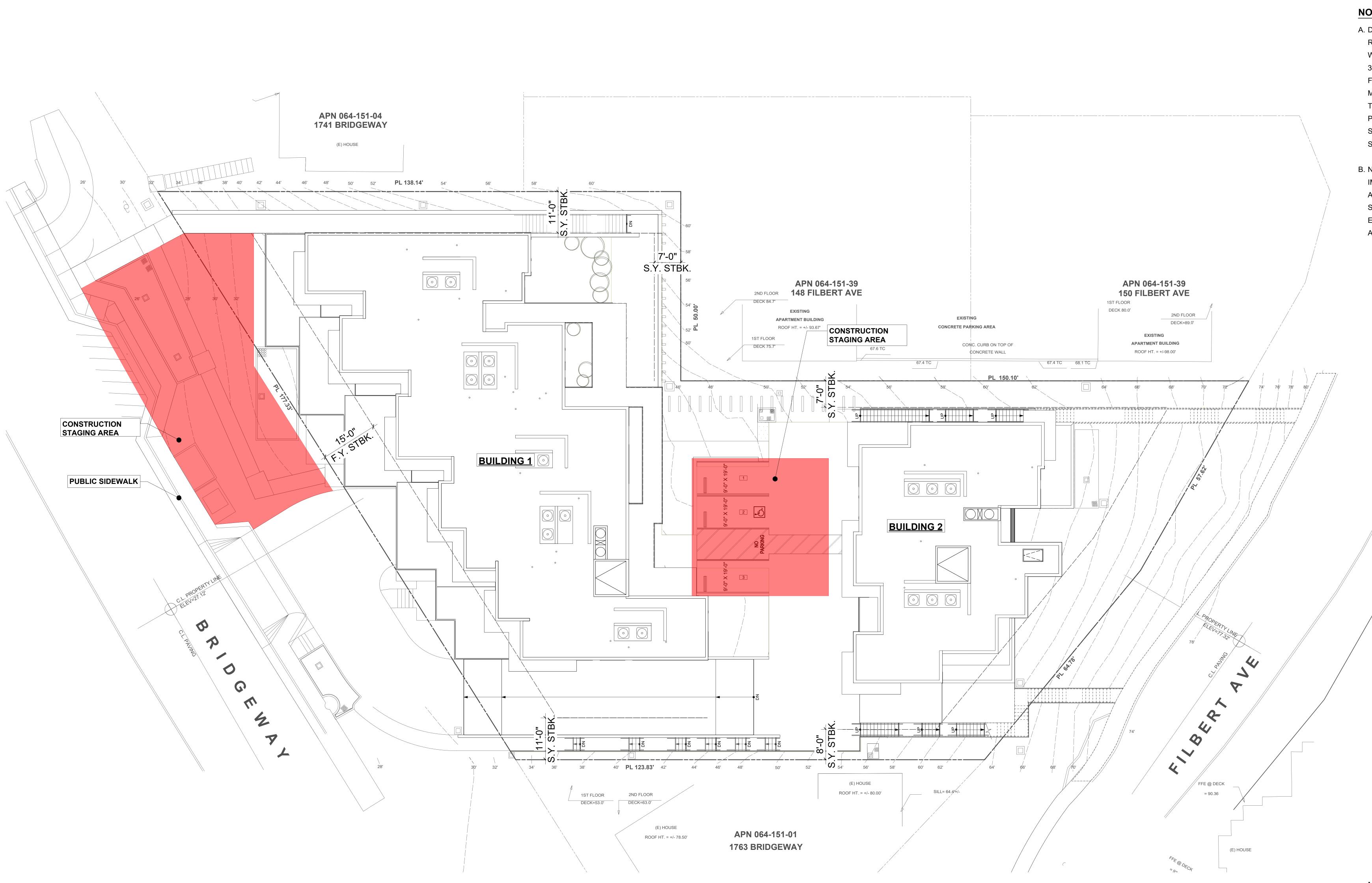


PROJECT NORTH TRUE NORTH

ENCRO

.2022			A0.13	
ОАСН	MEN	ΙT	DIAGRAM	_
	ELECT	RICA	NSFORMER & AL ROOM ACCESS TAGING	
	STREE	t imf	PROVEMENTS	
	CIRCUL		ON (DRIVEWAY)	
	CIRCUL (STAIRS		ON RE ACCESS)	

LANDSCAPE UPGRADES





PROJECT NORTH TRUE NORTH

1 " = 1 '- 0 "

CONSTRUCTION STAGING DIAGRAM 05.04.2022 A0.14

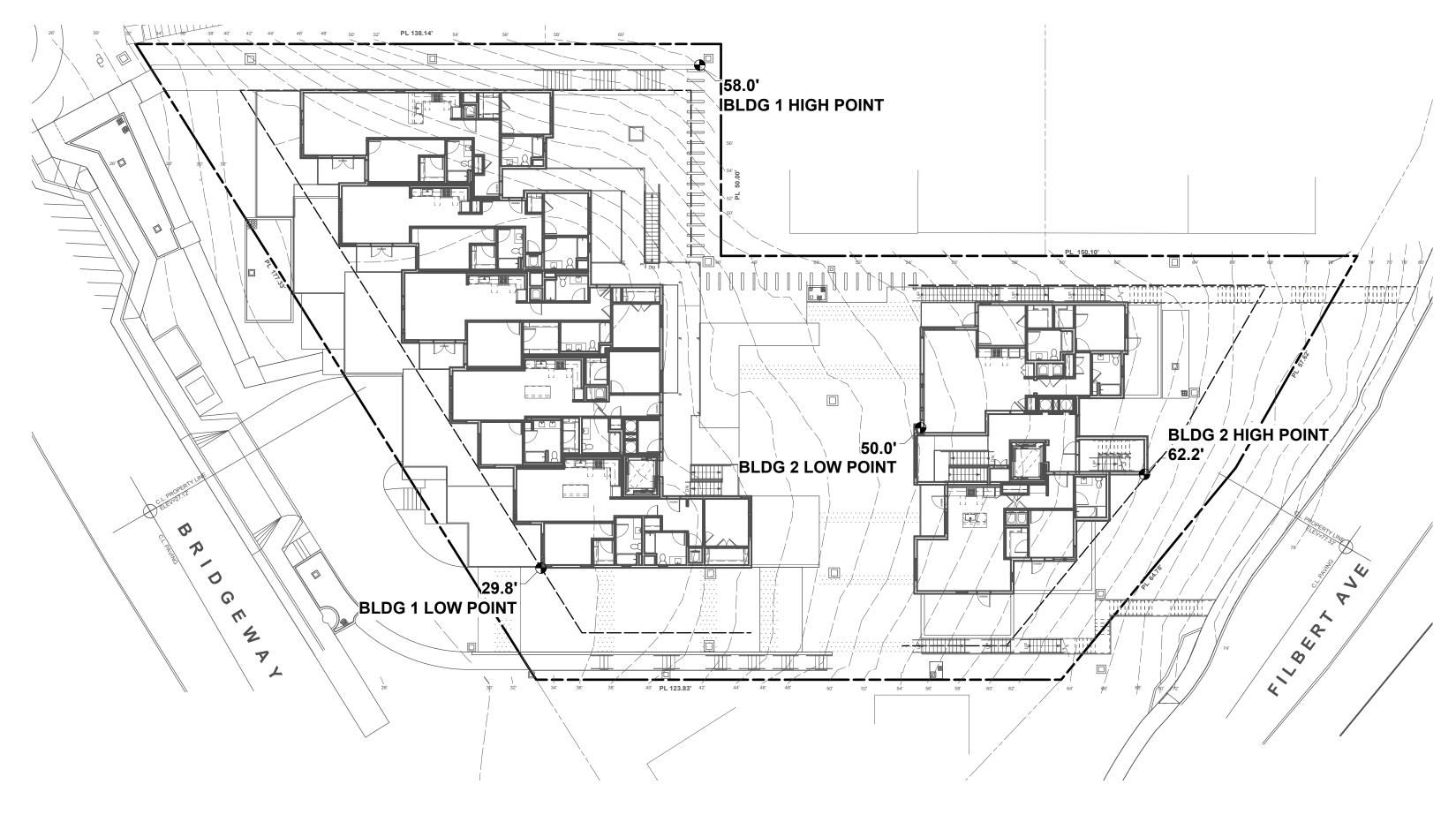
NOTES:

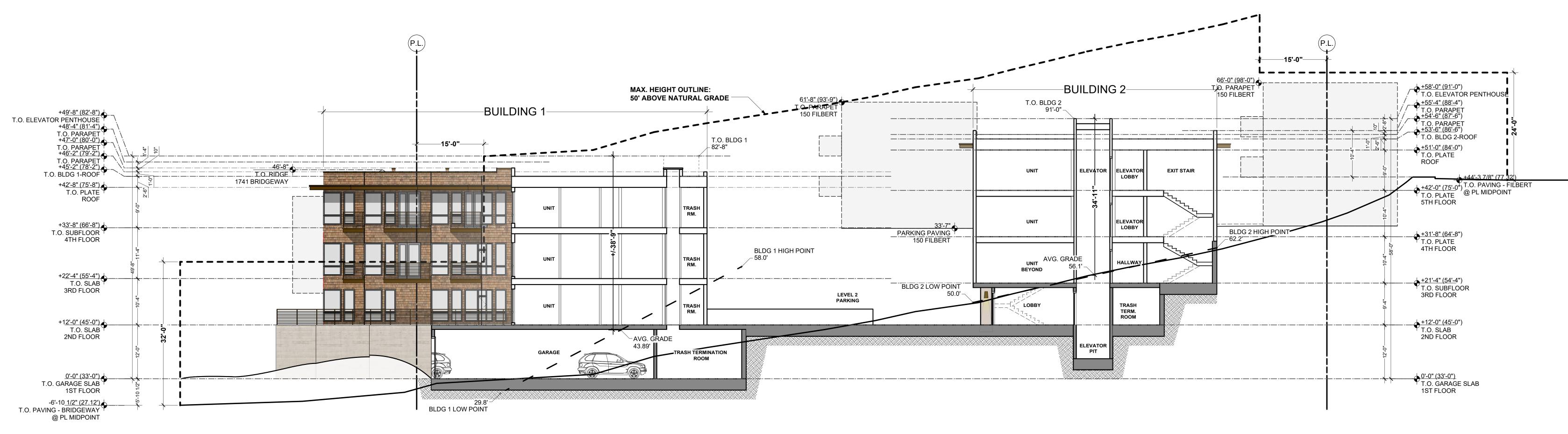
A. DURING CONSTRUCTION, STAGING WILL REMAIN OUT OF THE PUBLIC RIGHT OF WAY AND PUBLIC SIDEWALK. THE LARGE 39' MINIMUM SET BACK WILL BE USED FOR STORING EQUIPMENT AND MATERIALS AS DEPICTED BELOW. ALSO, THE PARKING LOT BETWEEN THE TWO PROPOSED BUILDINGS HAS SUFFICIENT SPACE TO BE USED AS CONSTRUCTION STAGING FOR THE FILBERT BUILDING.

B. NO CONSTRUCTION ACTIVITIES OR IMPROVEMENTS WILL TAKE PLACE ACROSS NEIGHBOR PROPERTY LINES. SHOULD IMPROVEMENTS OCCUR, EASEMENTS SHALL BE REQUIRED FROM ADJACENT PROPERTY OWNERS.

LEGEND

CONSTRUCTION STAGING AREA







PROJECT NORTH TRUE NORTH

PLAN DIAGRAM - HIGHEST & LOWEST POINT OF CONTACT 3

MUNICIPAL CODE 10.40.060

Building 1				
Story Pole Number	Roof-Top of Pole Elevation (FT)	Average Natural Grade (FT)	Building Height at Pole (FT)	Notes
SP21	45	43.89	1.11	
SP22	45	43.89	1.11	
SP23	45	43.89	1.11	
SP24	45	43.89	1.11	
SP25	45	43.89	1.11	
SP26	45	43.89	1.11	
SP27	45	43.89	1.11	
SP28	45	43.89	1.11	
SP29	45	43.89	1.11	
SP30	45	43.89	1.11	
SP31	45	43.89	1.11	
SP32	45	43.89	1.11	
SP33	79.17	43.89	35.28	1
SP34	79.17	43.89	35.28	1
SP35	79.17	43.89	35.28	1
SP36	79.17	43.89	35.28	1
SP37	79.17	43.89	35.28	1
SP38	79.17	43.89	35.28	1
SP39	80	43.89	36.11	1
SP40	80	43.89	36.11	1
SP41	80	43.89	36.11	1
SP42	80	43.89	36.11	1
SP43	81.33	43.89	37.44	1
SP44	81.33	43.89	37.44	1
SP45	81.33	43.89	37.44	1
SP46	79.17	43.89	35.28	1
SP47	79.17	43.89	35.28	1
SP48	79.17	43.89	35.28	1
SP49	79.17	43.89	35.28	1
SP50	79.17	43.89	35.28	1
SP51	79.17	43.89	35.28	1
SP52	79.17	43.89	35.28	1
SP53	80	43.89	36.11	1
SP54	79.17	43.89	35.28	1
SP55	79.17	43.89	35.28	1

Building 2					
Story Pole Number	Roof-Top of Pole Elevation (FT)	Average Natural Grade (FT)	Building Height at Pole (FT)	Notes	
SP1	87.5	56.1	31.4	1	
SP2	87.5	56.1	31.4	1	
SP3	87.5	56.1	31.4	1	
SP4	88.33	56.1	32.23	1,2	
SP5	88.33	56.1	32.23	1,2	
SP6	88.33	56.1	32.23	1,2	
SP7	88.33	56.1	32.23	1,2	
SP8	57.92	56.1	1.82		
SP9	57.92	56.1	1.82		
SP10	88.33	56.1	32.23	1,2	
SP11	88.33	56.1	32.23	1,2	
SP12	87.5	56.1	31.4	1	
SP13	87.5	56.1	31.4	1	
SP14	87.5	56.1	31.4	1	
SP15	88.33	56.1	32.23	1,2	
SP16	88.33	56.1	32.23	1,2	
SP17	88.33	56.1	32.23	1,2	
SP18	87.5	56.1	31.4	1	
SP19	87.5	56.1	31.4	1	
SP20	87.5	56.1	31.4	1	

Notes:

1

Exceeds height for downhill slope properties (24') SMC 10.40.060 Exceeds height limit for R-3 (32') SMC Table 10.22-2

Notes: Exceeds height limit of R-3 District (32') SMC Table 10.22-2 1

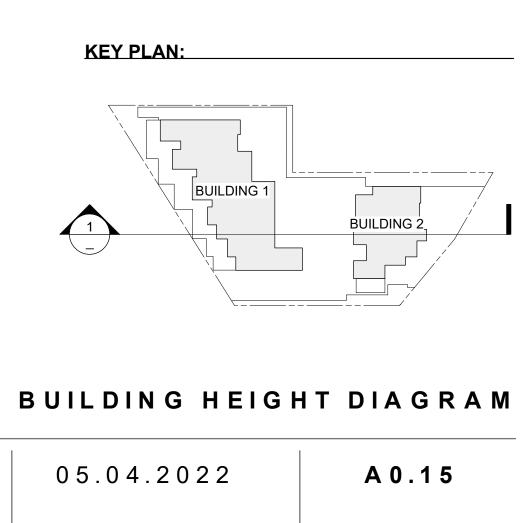
> BUILDING HEIGHT TABLES (See Civil sheets C7 & C8 for story poles information) - 2

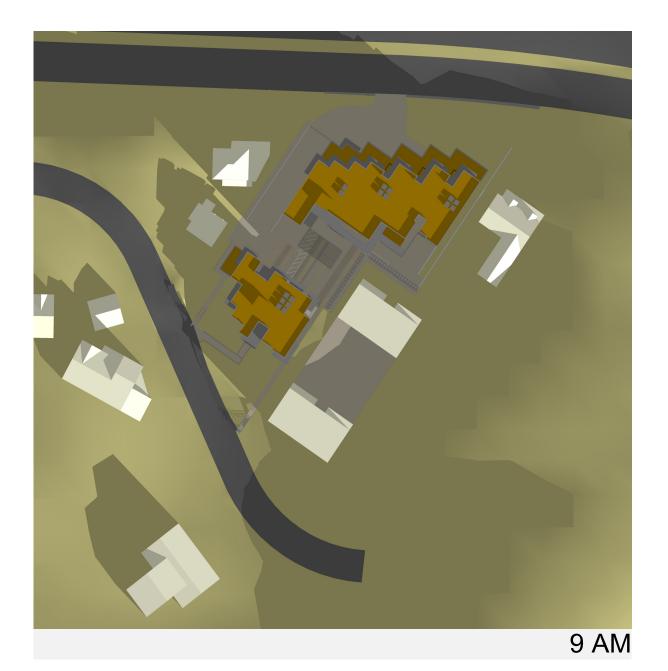
> > SECTION DIAGRAM

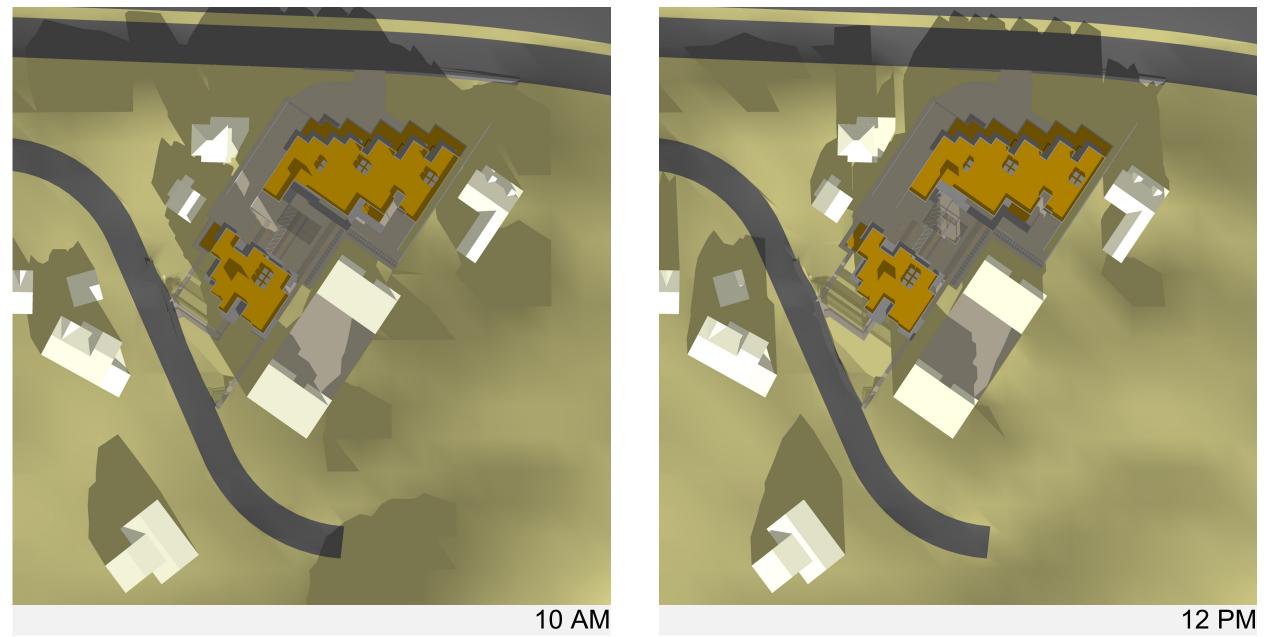
HEIGHT REQUIREMENTS PER SAUSALITO

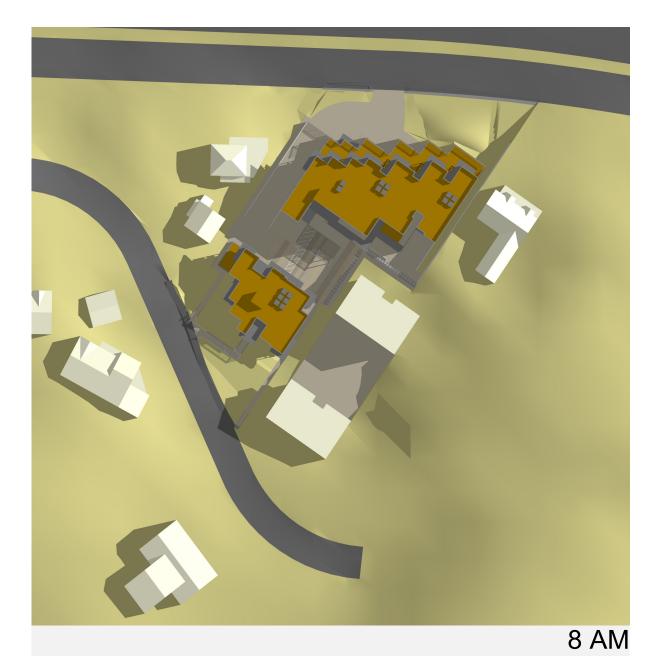
HEIGHT CALCULATED PER SAUSALITO MUNICIPAL CODE SECTION 10.40.060

1. Standard Building Height. Building height is the vertical distance from the average level of the natural ground surface under the building to the highest point of the building or structure. To determine the height of a building, the highest and lowest points of contact with the natural grade are identified and the average of these two elevations is the point from which the permitted maximum height is measured. The highest and lowest points of contact are determined where the maximum vertical projections of the perimeter walls of the building contact the natural grade. Where more than one structure is proposed for construction, the permitted height shall be individually computed for each detached structure. Balconies, decks and similar appurtenances and projections shall not be included in measuring the primary structure's building height.





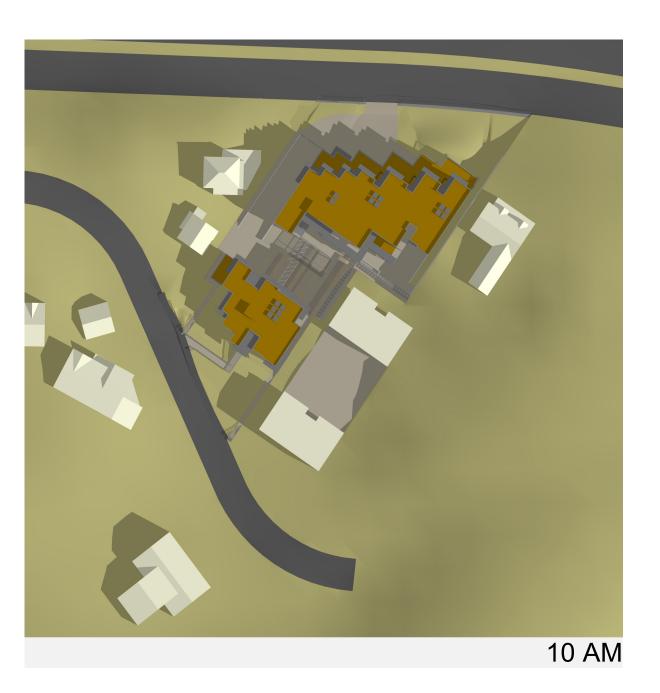




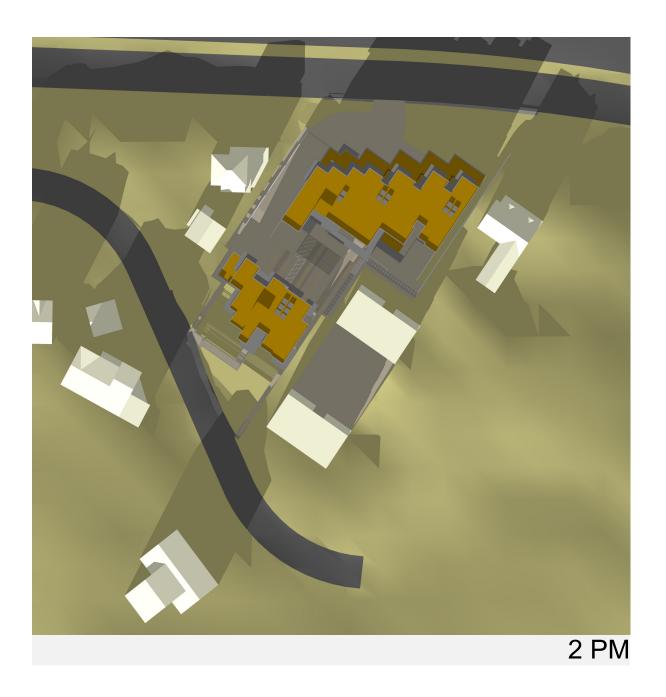








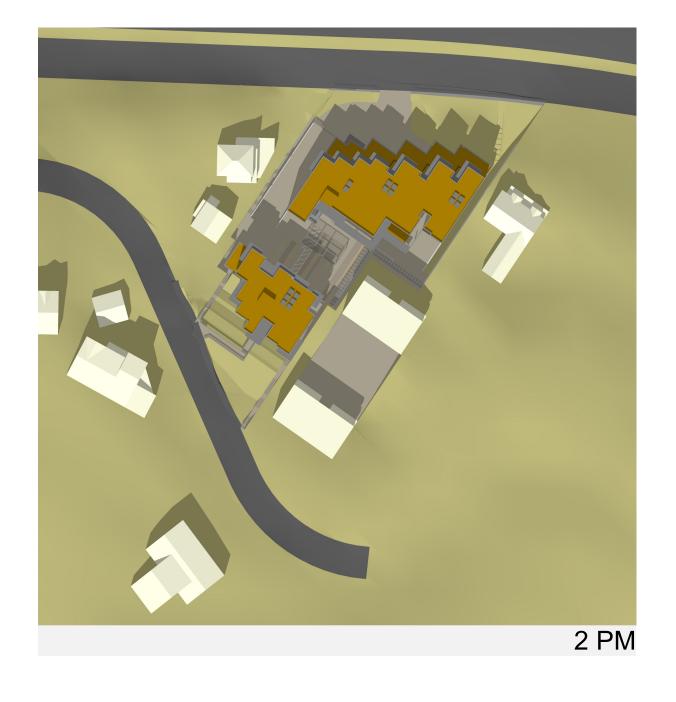




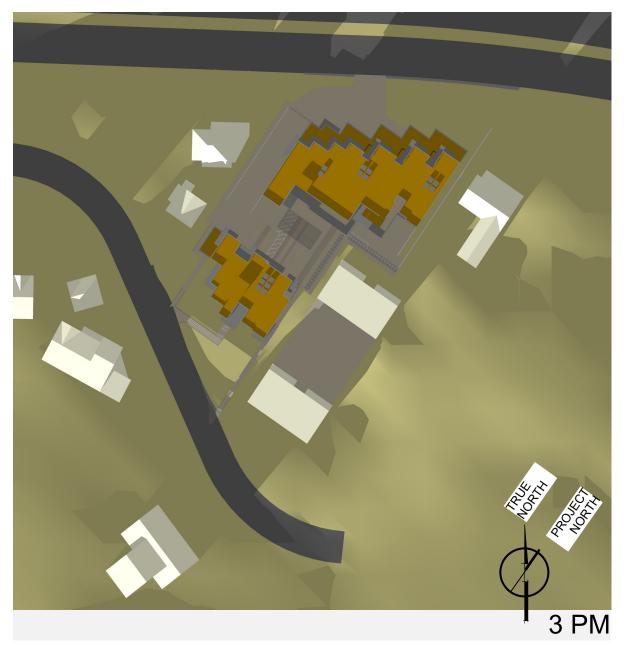




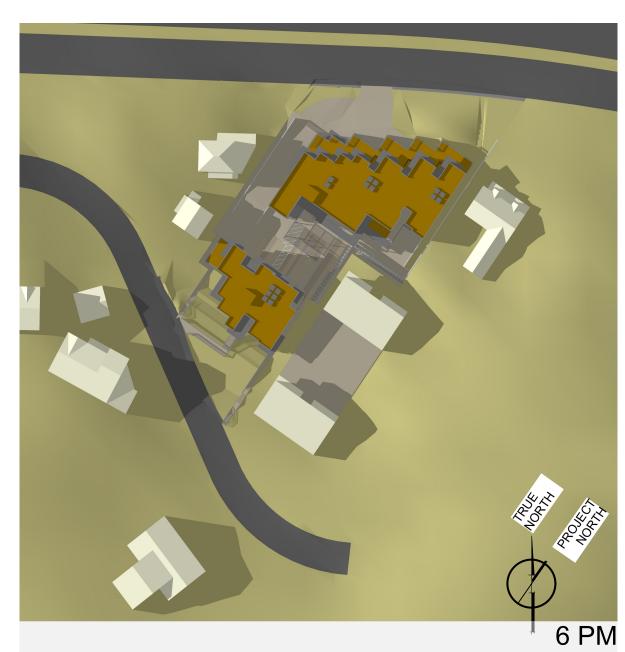


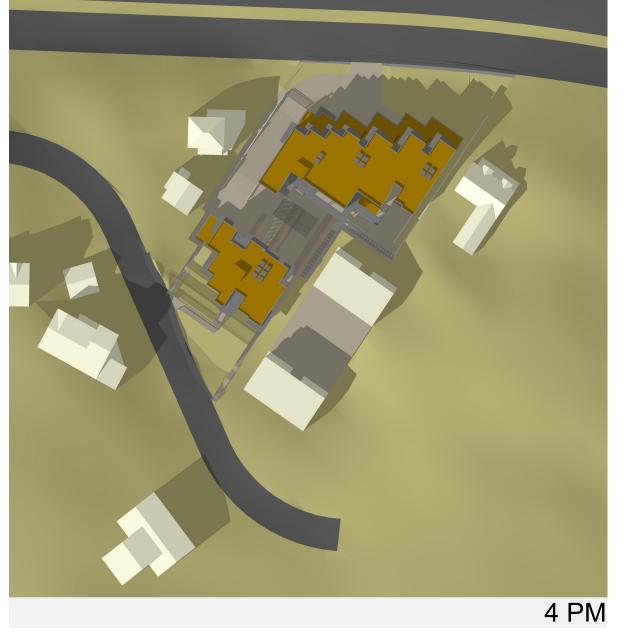


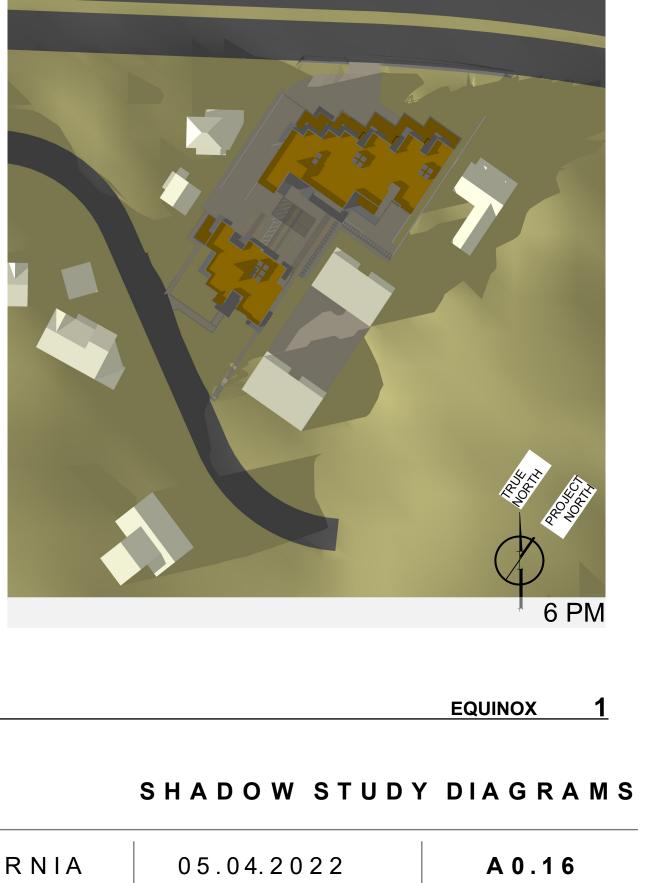
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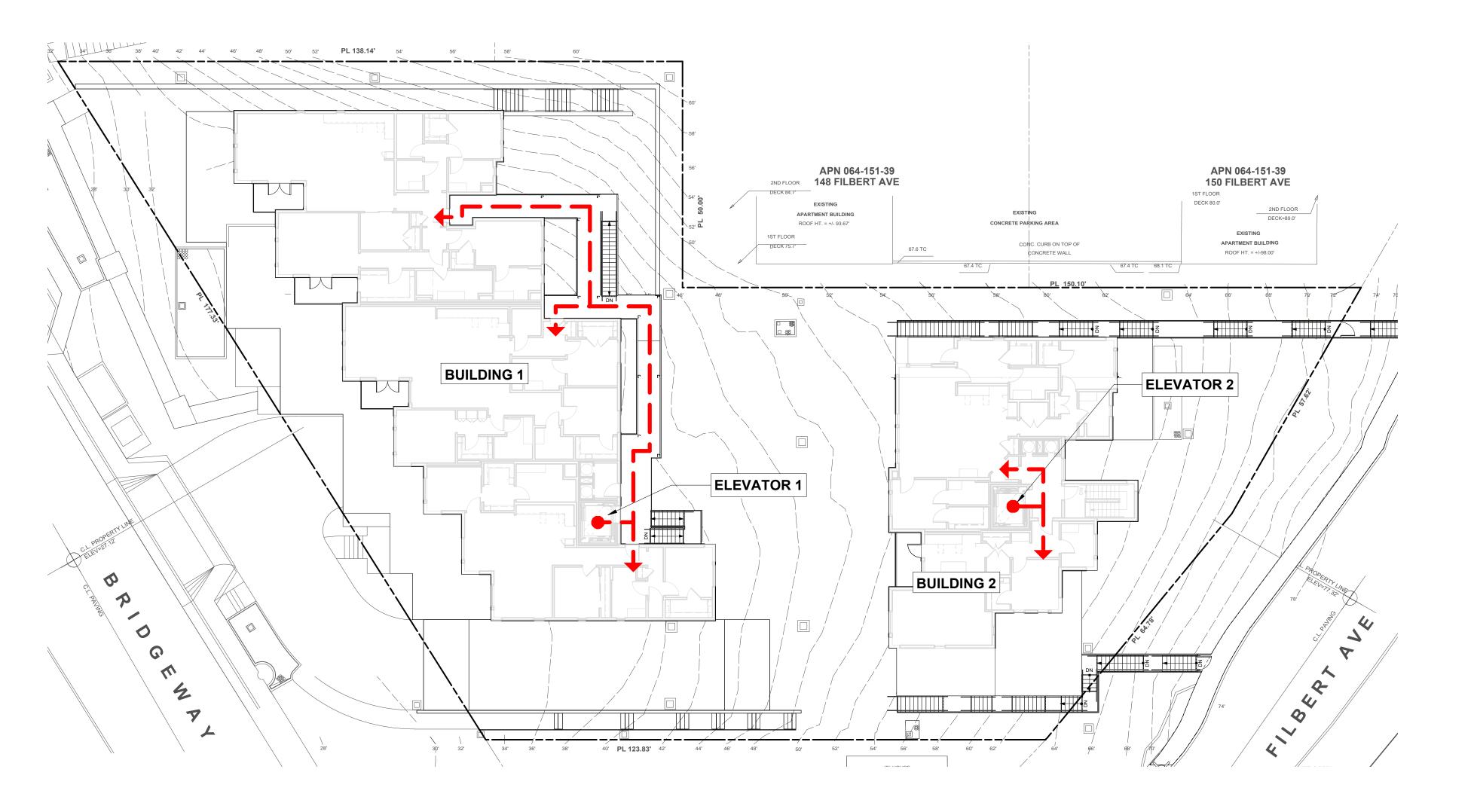


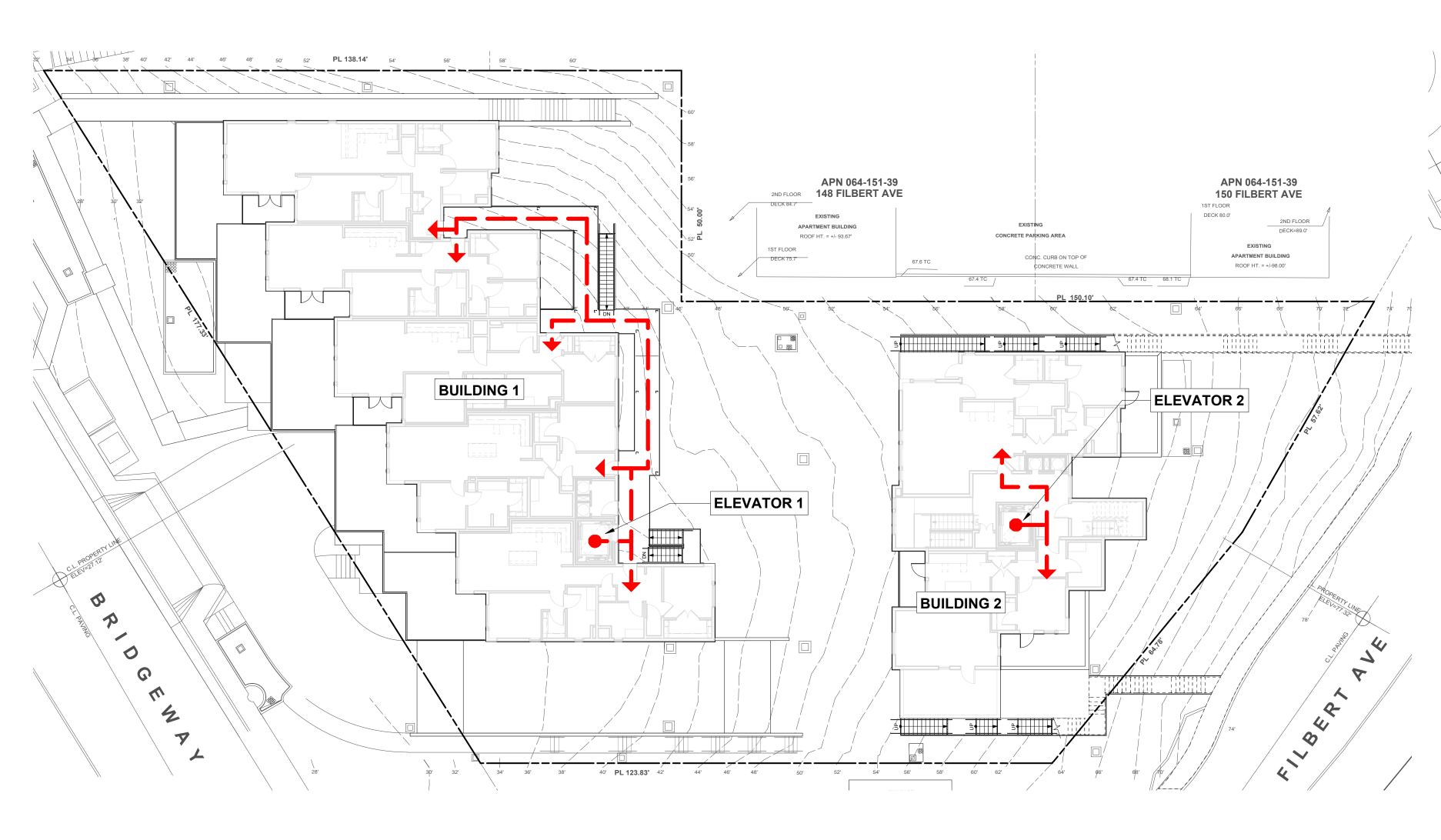






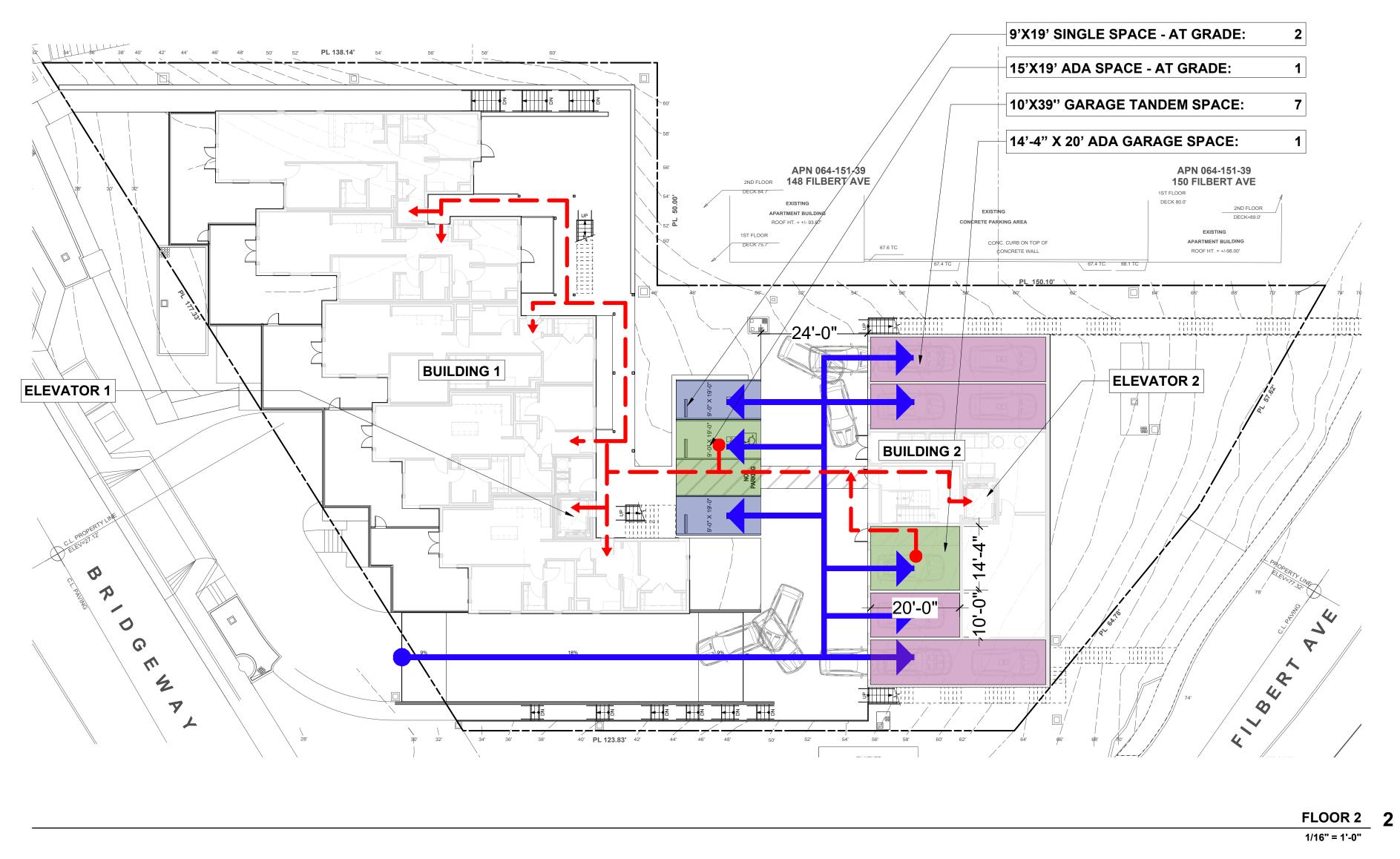
SUMMER SOLSTICE 2



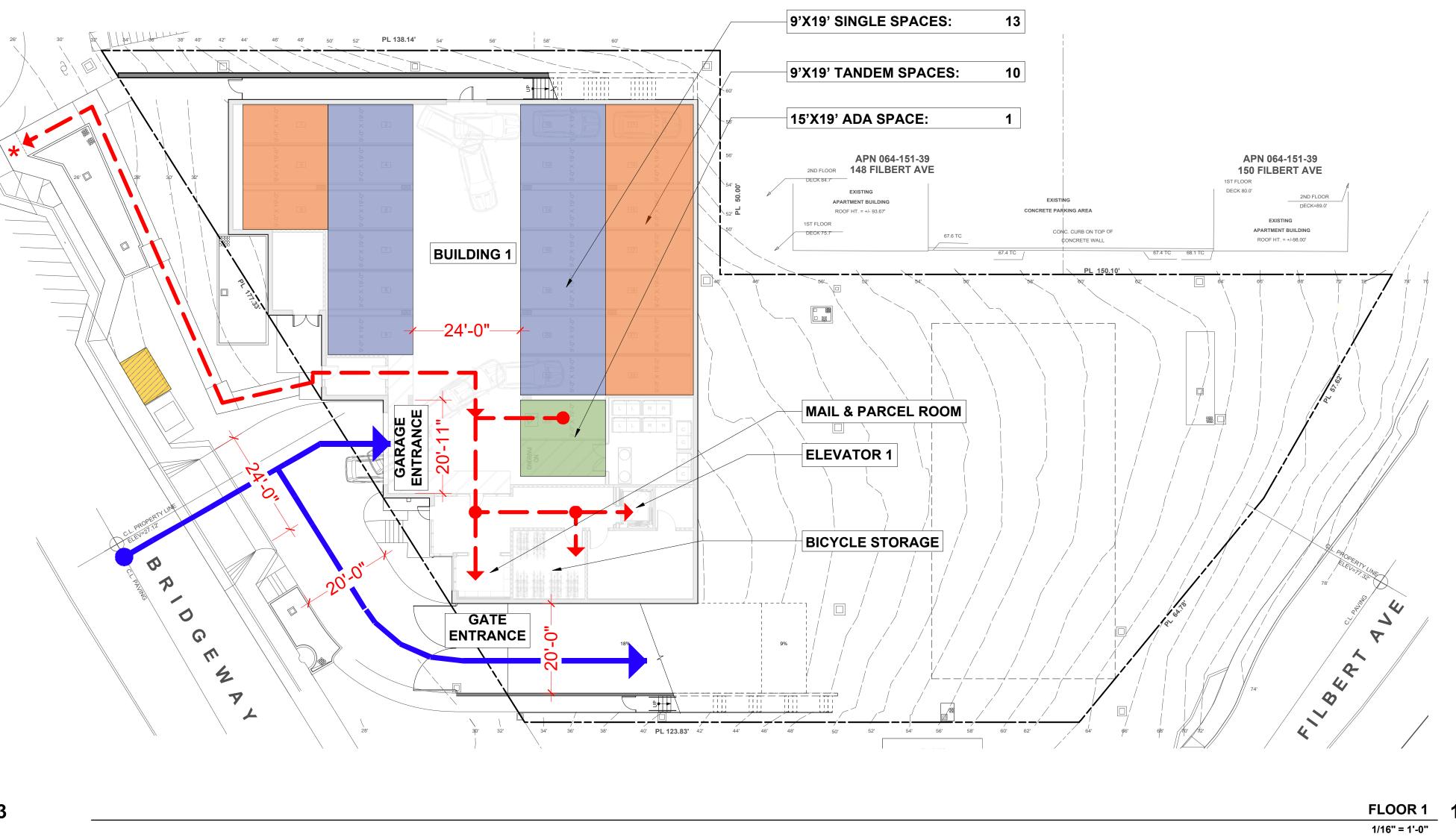




PROJECT NORTH TRUE NORTH

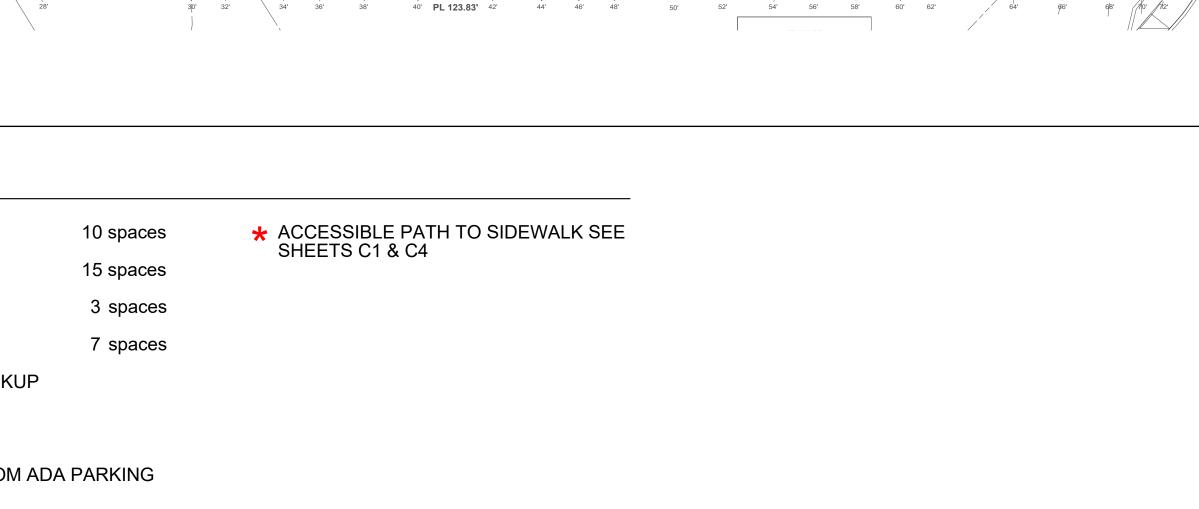


FLOORS 4-5 **4** 1/16" = 1'-0"



FLOOR 3 3 1/16" = 1'-0"

> LEGEND TANDEM PARKING SINGLE PARKING ADA PARKING GARAGE TANDEM LOADING/ TRASH PICKUP - - - ACCESSIBLPATH FROM ADA PARKING VEHICULAR CIRCULATION



PARKING DIAGRAMS AND ACCESSIBILITY 05.04.2022 A0.17







PROJECT NORTH TRUE NORTH

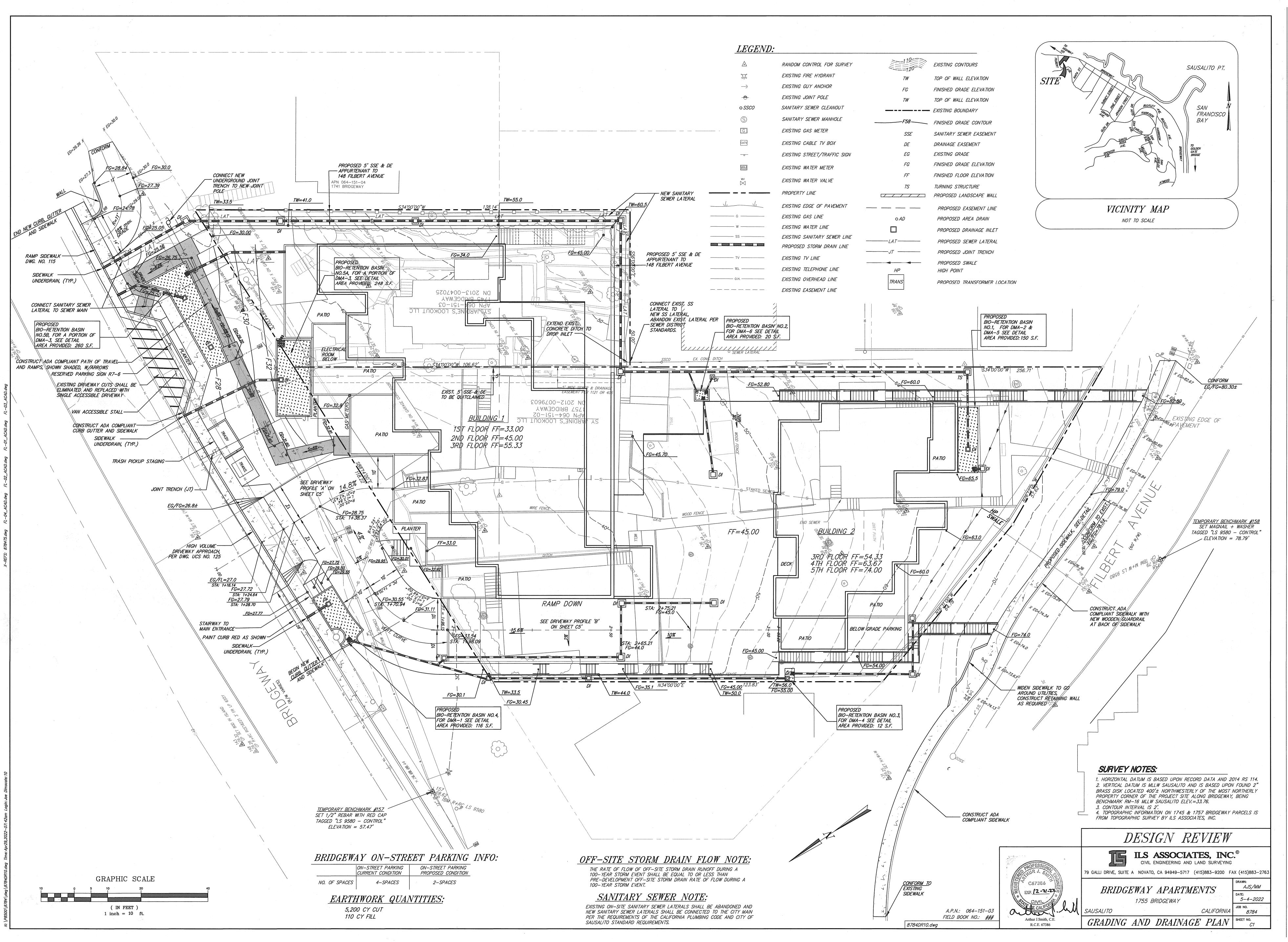
CIRCULATION PLAN LEGEND

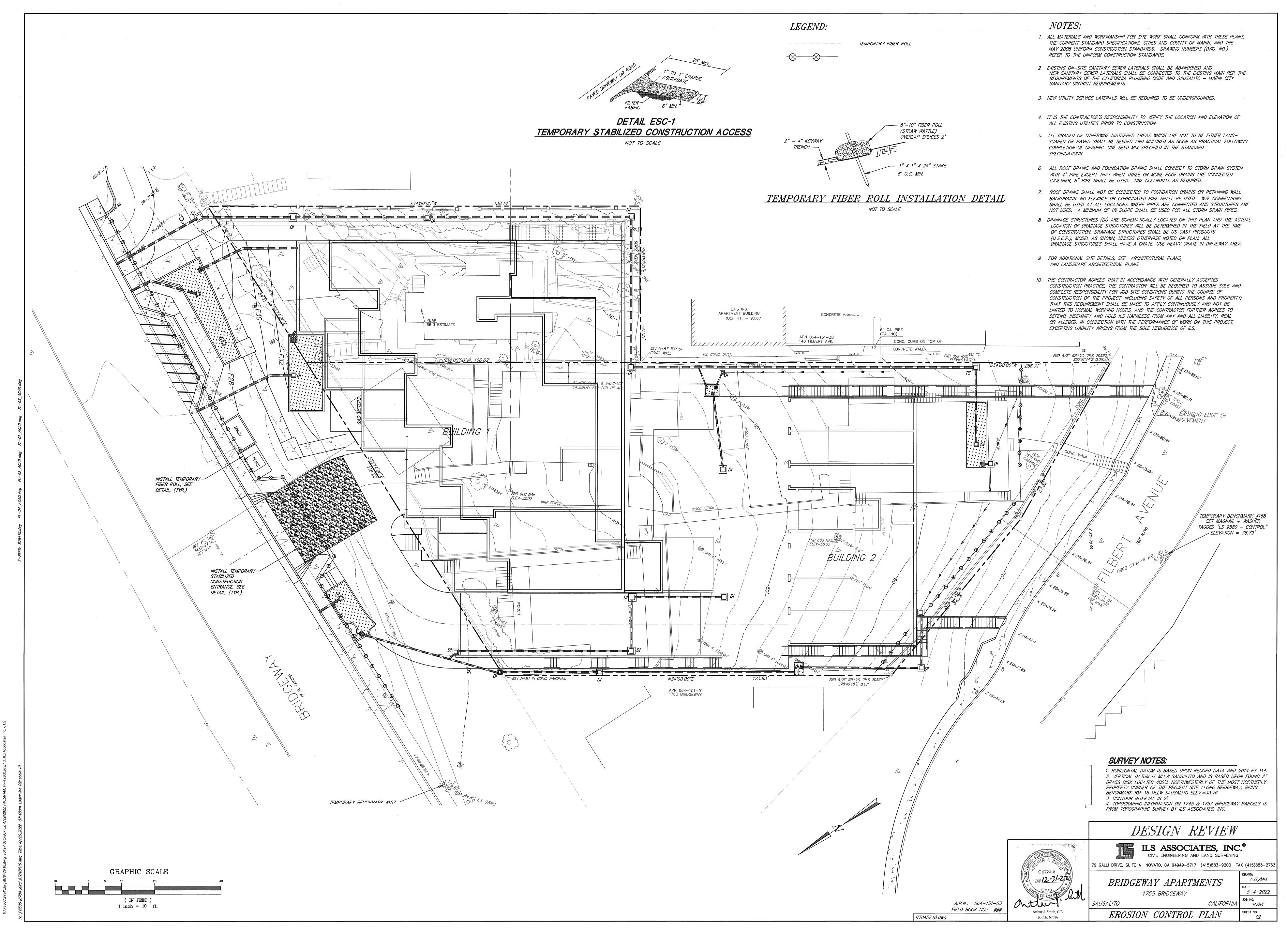
 PEDESTRIAN CIRC
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CIRCULATION DIAGRAMS A0.18

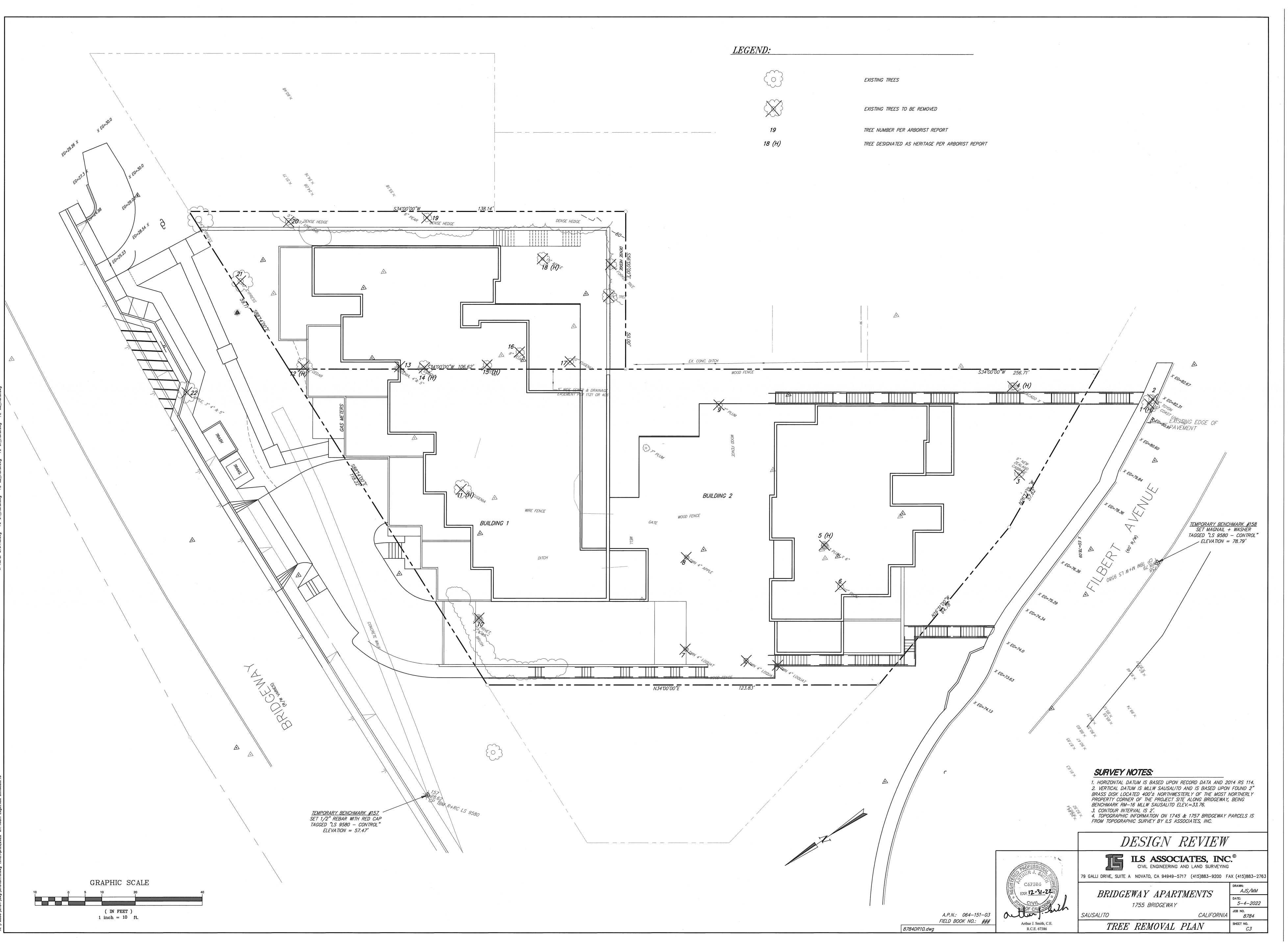


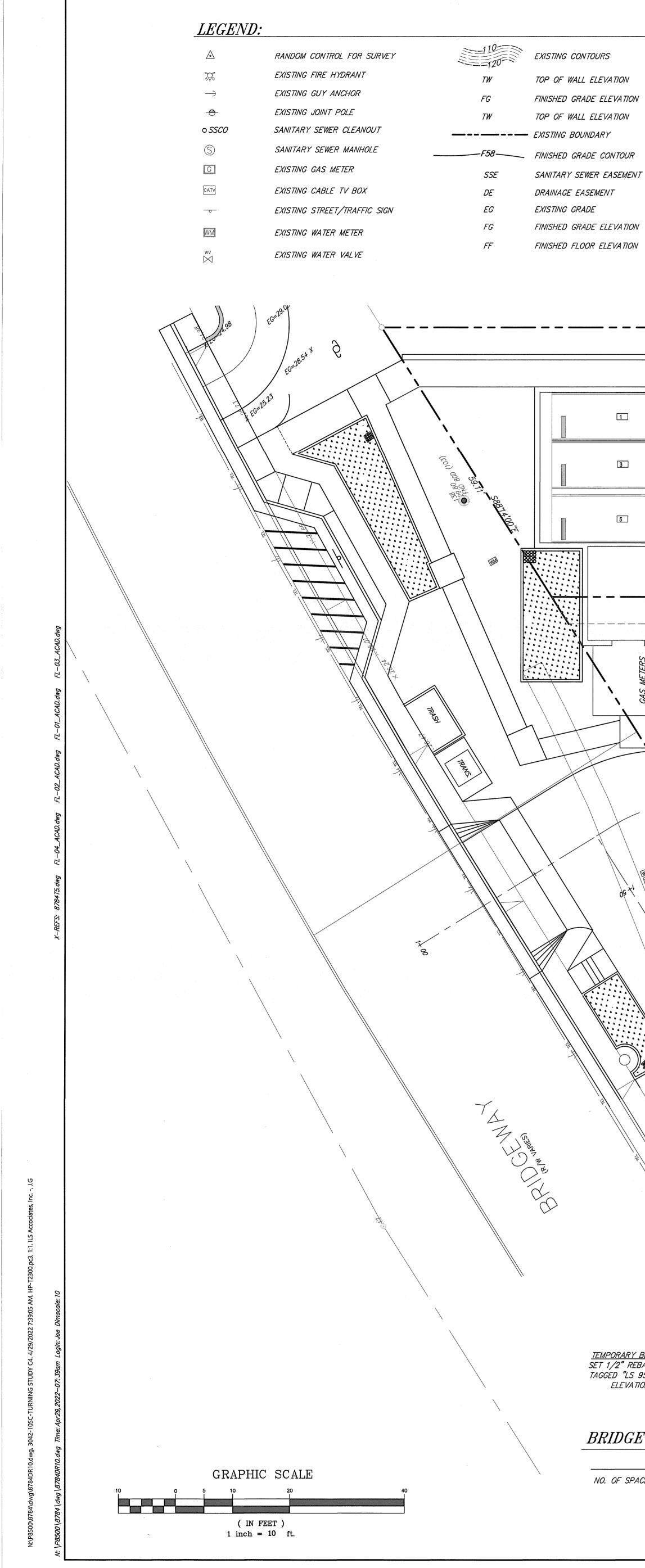












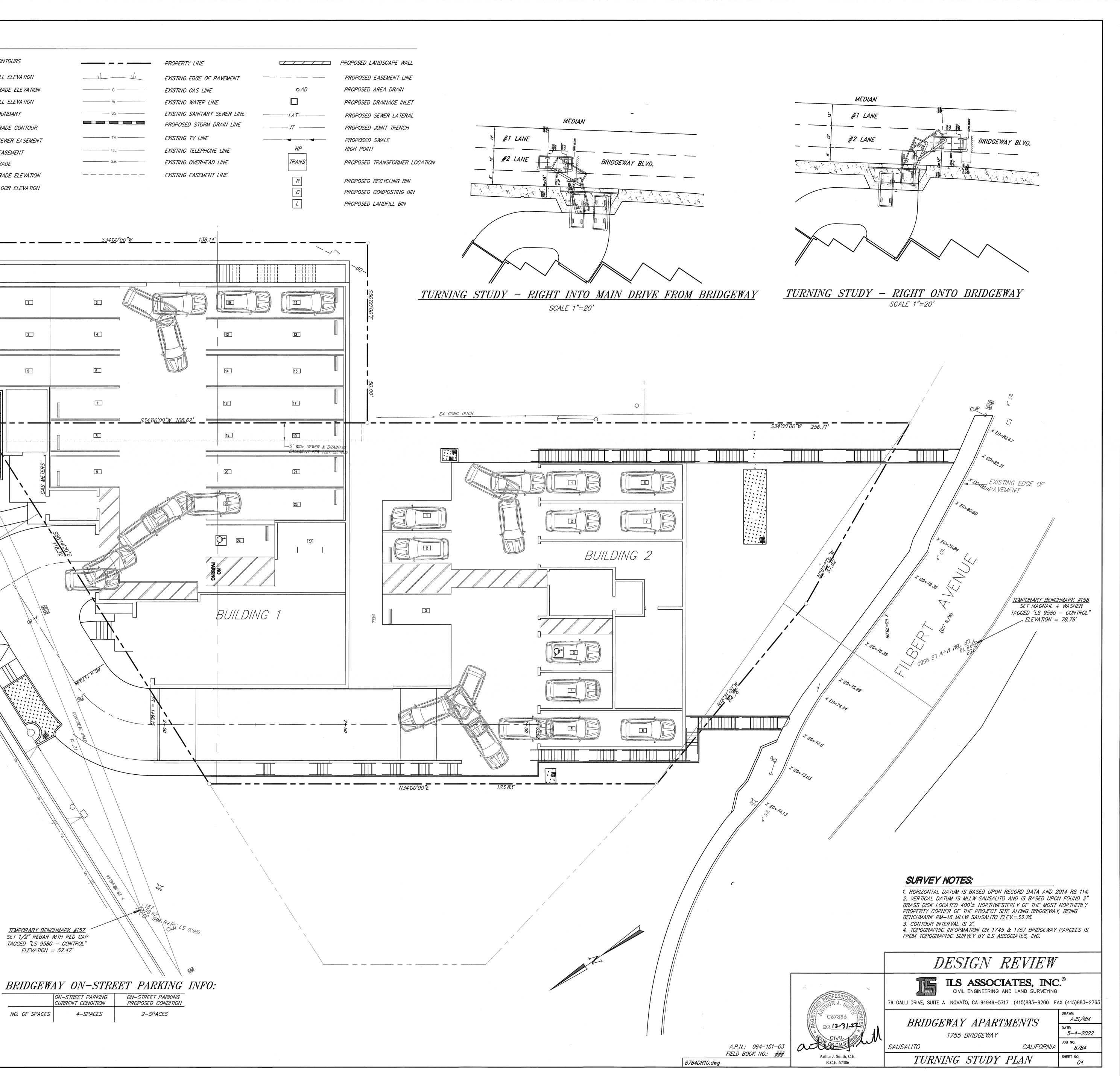
<u>TEMPORARY BENCHMARK #157</u> SET 1/2" REBAR WITH RED CAP TAGGED "LS 9580 - CONTROL" ELEVATION = 57.47'

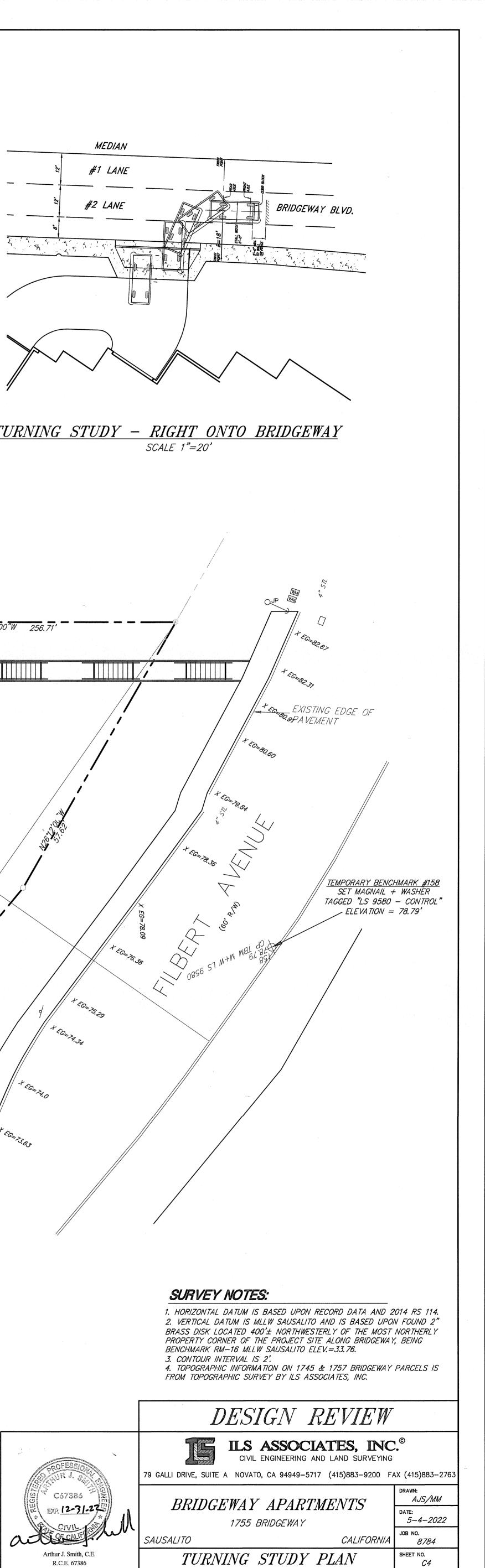
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3

5

NO. OF SPACES



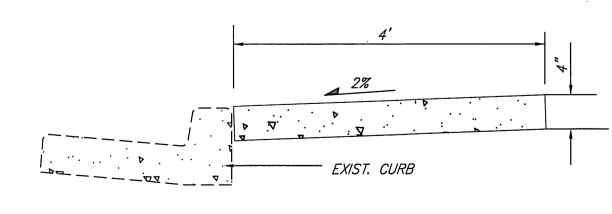


NOTES:

- 1. ALL MATERIALS AND WORKMANSHIP FOR SITE WORK SHALL CONFORM WITH THESE PLANS, THE CURRENT STANDARD SPECIFICATIONS, CITIES AND COUNTY OF MARIN, AND THE MAY 2008 UNIFORM CONSTRUCTION STANDARDS. DRAWING NUMBERS (DWG. NO.) REFER TO THE UNIFORM CONSTRUCTION STANDARDS.
- EXISTING ON-SITE SANITARY SEWER LATERALS SHALL BE ABANDONED AND NEW SANITARY SEWER LATERALS SHALL BE CONNECTED TO THE EXISTING MAIN PER THE REQUIREMENTS OF THE CALIFORNIA PLUMBING CODE AND SAUSALITO - MARIN CITY SANITARY DISTRICT REQUIREMENTS.
- 3. NEW UTILITY SERVICE LATERALS WILL BE REQUIRED TO BE UNDERGROUNDED.
- 4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
- 5. ALL GRADED OR OTHERWISE DISTURBED AREAS WHICH ARE NOT TO BE EITHER LAND-SCAPED OR PAVED SHALL BE SEEDED AND MULCHED AS SOON AS PRACTICAL FOLLOWING COMPLETION OF GRADING. USE SEED MIX SPECIFIED IN THE STANDARD SPECIFICA TIONS.
- 6. ALL ROOF DRAINS AND FOUNDATION DRAINS SHALL CONNECT TO STORM DRAIN SYSTEM WITH 4" PIPE EXCEPT THAT WHEN THREE OR MORE ROOF DRAINS ARE CONNECTED TOGETHER, 6" PIPE SHALL BE USED. USE CLEANOUTS AS REQUIRED.
- 7. ROOF DRAINS SHALL NOT BE CONNECTED TO FOUNDATION DRAINS OR RETAINING WALL BACKDRAINS. NO FLEXIBLE OR CORRUGATED PIPE SHALL BE USED. WYE CONNECTIONS SHALL BE USED AT ALL LOCATIONS WHERE PIPES ARE CONNECTED AND STRUCTURES ARE NOT USED. A MINIMUM OF 1% SLOPE SHALL BE USED FOR ALL STORM DRAIN PIPES.
- 8. DRAINAGE STRUCTURES (DI) ARE SCHEMATICALLY LOCATED ON THIS PLAN AND THE ACTUAL LOCATION OF DRAINAGE STRUCTURES WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION. DRAINAGE STRUCTURES SHALL BE US CAST PRODUCTS (U.S.C.P.), MODEL AS SHOWN, UNLESS OTHERWISE NOTED ON PLAN. ALL DRAINAGE STRUCTURES SHALL HAVE A GRATE. USE HEAVY GRATE IN DRIVEWAY AREA.
- 9. FOR ADDITIONAL SITE DETAILS, SEE ARCHITECTURAL PLANS, AND LANDSCAPE ARCHITECTURAL PLANS.
- 10. THE CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICE, THE CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND THE CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD ILS HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED. IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT. EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF ILS.

EROSION AND SEDIMENT CONTROL NOTES:

- 1. TEMPORARY INLET PROTECTION OF EXISTING DRAINAGE INLETS, CONSTRUCTION LIMITS FENCING AND TREE PROTECTION MEASURES WHERE SHOWN ON THE PLANS SHALL BE INSTALLED PRIOR TO START OF CONSTRUCTION.
- 2. OTHER TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES AND BEST MANAGEMENT PRACTICES SHALL BE INSTALLED/IMPLEMENTED AS SHOWN ON THE PLANS AND PRIOR TO SOIL DISTURBANCE ON ANY AFFECTED AREA OF THE SITE.
- 3. PERMANENT EROSION AND SEDIMENT CONTROL MEASURES MAY INCLUDE SURFACING, PAVING, LANDSCAPING, SEEDING AND MULCHING, WOOD CHIPS AND ROCK SLOPE PROTECTION AS SHOWN ON THE PLANS.
- 4. TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES MAY BE REMOVED FOLLOWING IMPLEMENTATION OF PERMANENT EROSION AND SEDIMENT CONTROL MEASURES.
- 5. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES, CONSTRUCTION LIMIT FENCING AND TREE PROTECTION MEASURES SHALL BE REMOVED BY COMPLETION OF CONSTRUCTION AND INSTALLATION AND/OR ESTABLISHMENT OF PERMANENT EROSION AND SEDIMENT CONTROL MEASURES.
- 6. WHERE A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) HAS BEEN PREPARED, ALL PROVISIONS OF THAT PLAN SHALL BE IMPLEMENTED.
- 7. THE LOCATION OF ALL EROSION AND SEDIMENT CONTROL FEATURES SHOWN ON THE PLANS ARE APPROXIMATE ONLY. ACTUAL LOCATIONS ARE TO BE DETERMINED IN THE FIELD BY THE ENGINEER.
- 8. DURING THE COURSE OF CONSTRUCTION, THE SITE SHALL BE INSPECTED BY THE CONTRACTOR AS NECESSARY DURING THE WINTER MONTHS AND AFTER EACH MAJOR RAINFALL. AFTER EACH MAJOR RAINFALL ANY ACCUMULATED SILT SHALL BE REMOVED WHERE NECESSARY AND ANY DAMAGED EROSION AND SEDIMENT CONTROL FEATURES SHALL BE REPAIRED.
- 9. STOCKPILES OF SOIL, SAND OR OTHER ERODABLE MATERIAL SHALL BE COVERED WITH WEIGHTED-DOWN TARPS OR PLASTIC SHEETING AND ENCLOSED IN A ROW OF FIBER ROLLS WHENEVER RAIN IS OCCURING OR PREDICTED.
- 10. WHERE DEEMED NECESSARY BY THE ENGINEER IN THE FIELD OTHER EROSION AND SEDIMENT CONTROL MEASURES MAY BE REQUIRED.
- 11. EROSION AND SEDIMENT CONTROL FEATURES MAY BE TEMPORARILY REMOVED TO GAIN ACCESS TO CONSTRUCTION AREAS. THEY SHALL, HOWEVER, BE REPLACED AT THE END OF EACH WORKING DAY WHEN RAIN IS OCCURRING OR PREDICTED AND AT THE END OF THE WORK DAY EACH FRIDAY.
- 12. ALL GRADED OR OTHERWISE DISTURBED AREAS SHALL BE EITHER HYDRO-SEEDED OR SEEDED AND MULCHED FOLLOWING COMPLETION OF GRADING BUT, IN ANY EVENT, PRIOR TO OCTOBER 15. DEPENDING ON THE STATUS OF THE WORK ON OCTOBER 15, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES MAY BE REQUIRED. FOR AREAS TO BE HYDRO-SEEDED OR SEEDED AND MULCHED, USE SEED MIX SPECIFIED IN THE STANDARD SPECIFICATIONS.

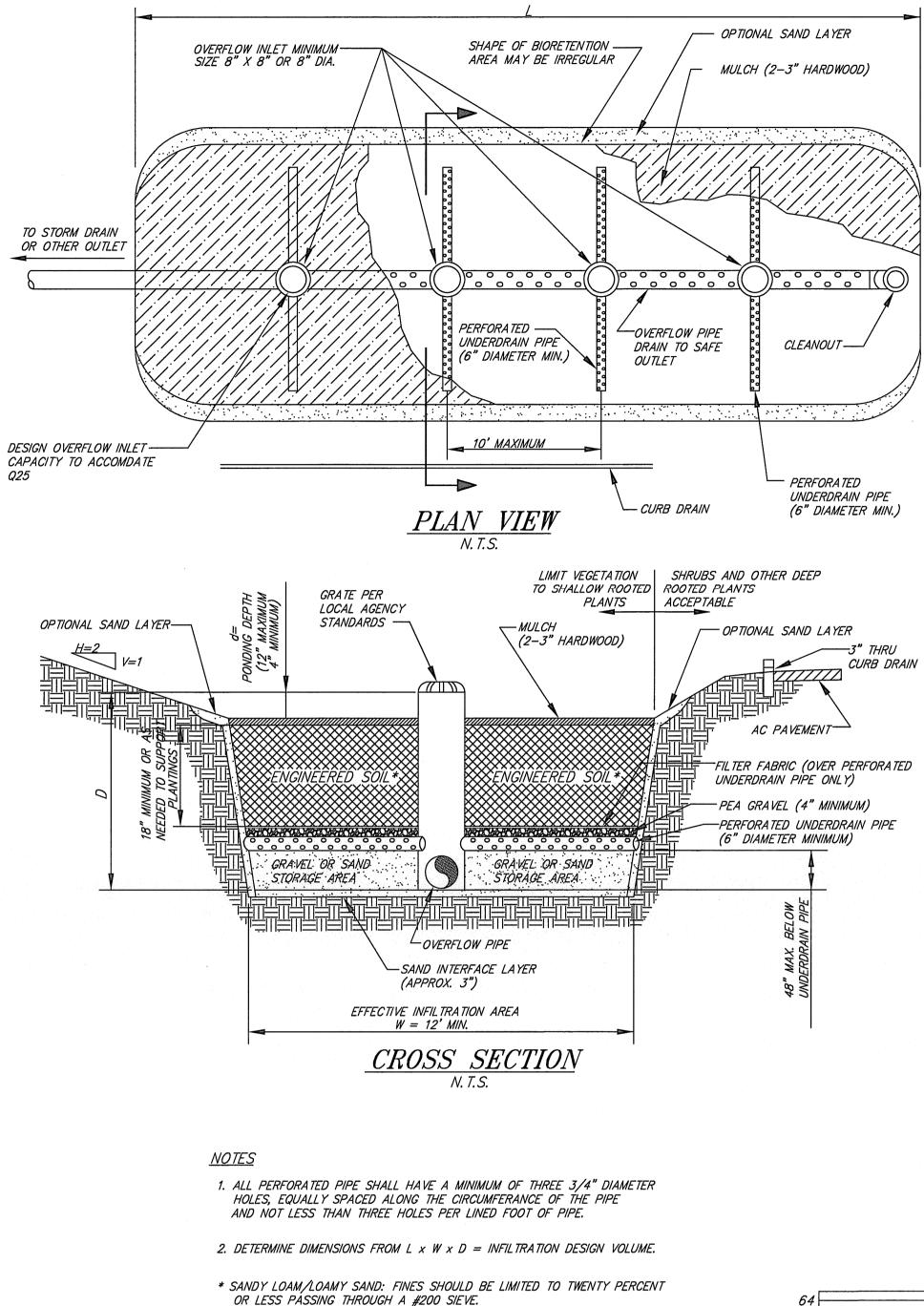


SLOPE AS SHOWN -ON PLANS 2:1 MAX.

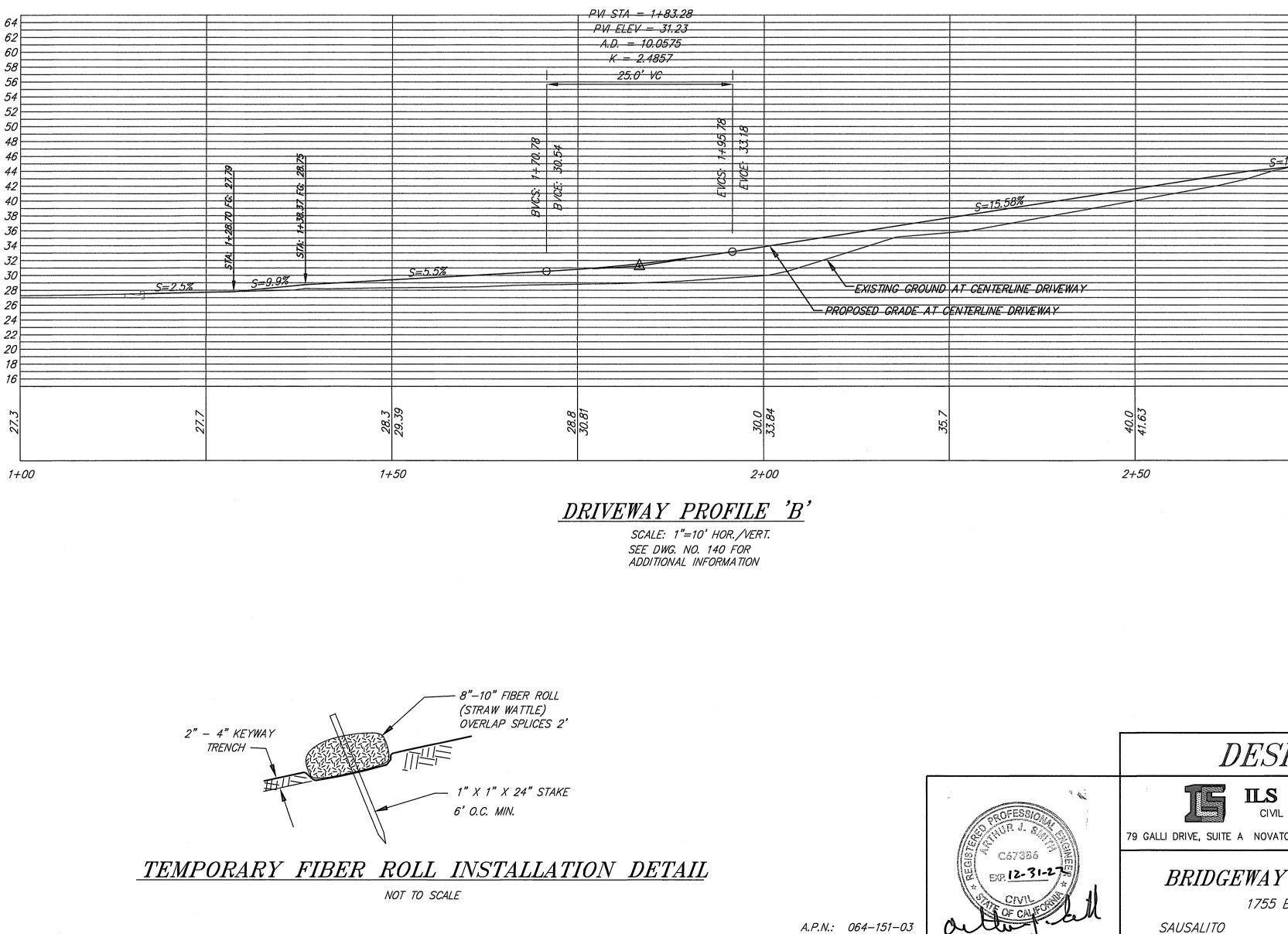


1. SEE DWG. NO. 100 & 105 FOR GENERAL REQUIREMENTS

TO STORM DRAIN OR OTHER OUTLET



BIO-RETENTION DETAIL NOT TO SCALE



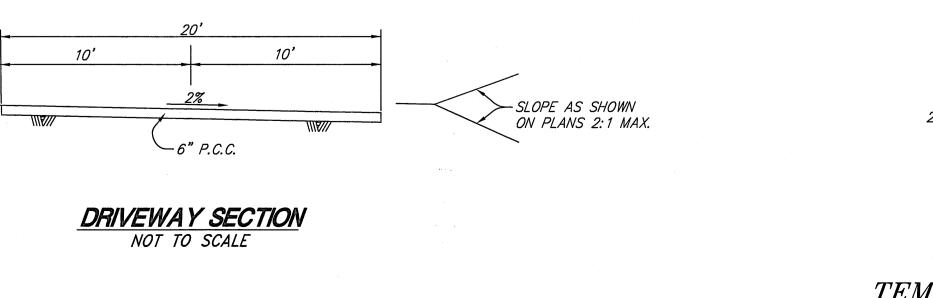
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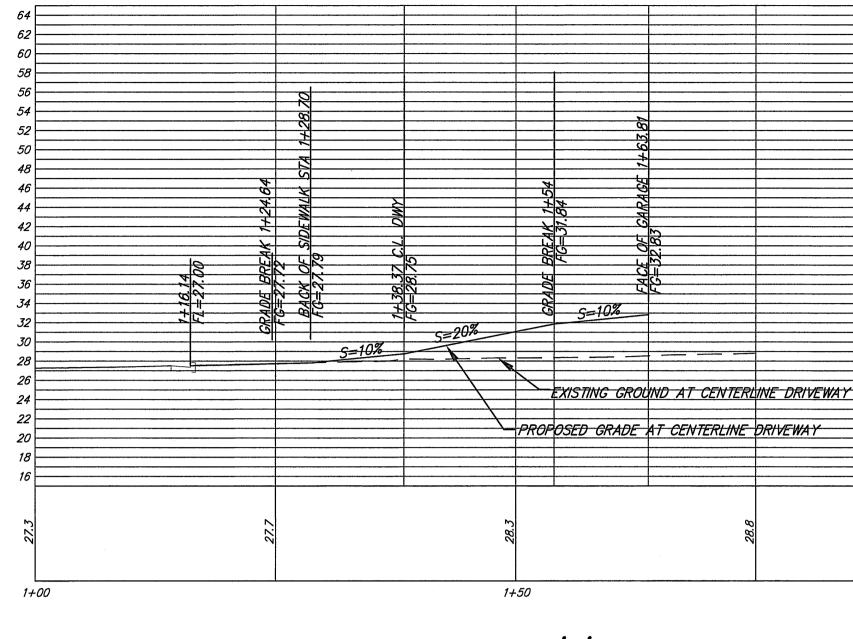
Arthur J. Smith, C.E.

R.C.E. 67386

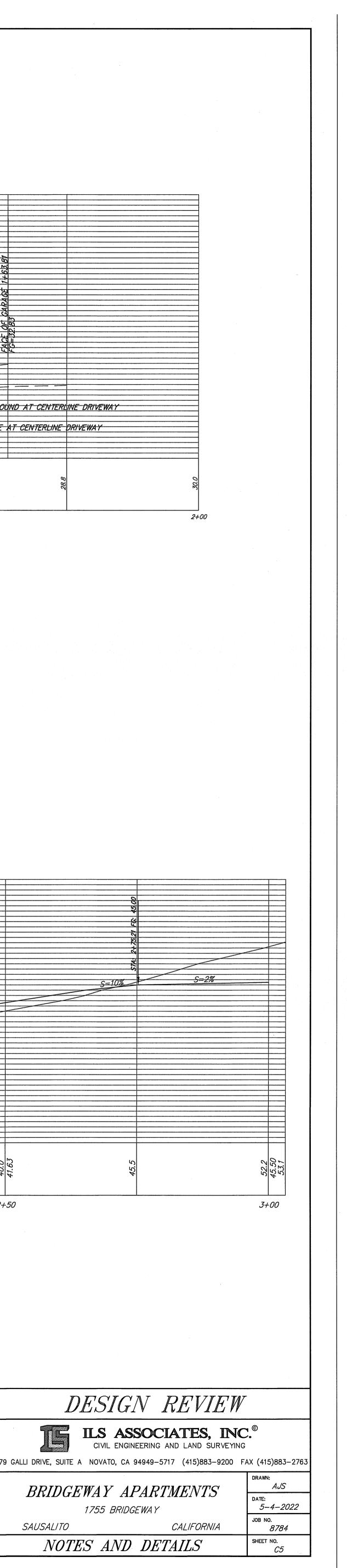
FIELD BOOK NO.: ####

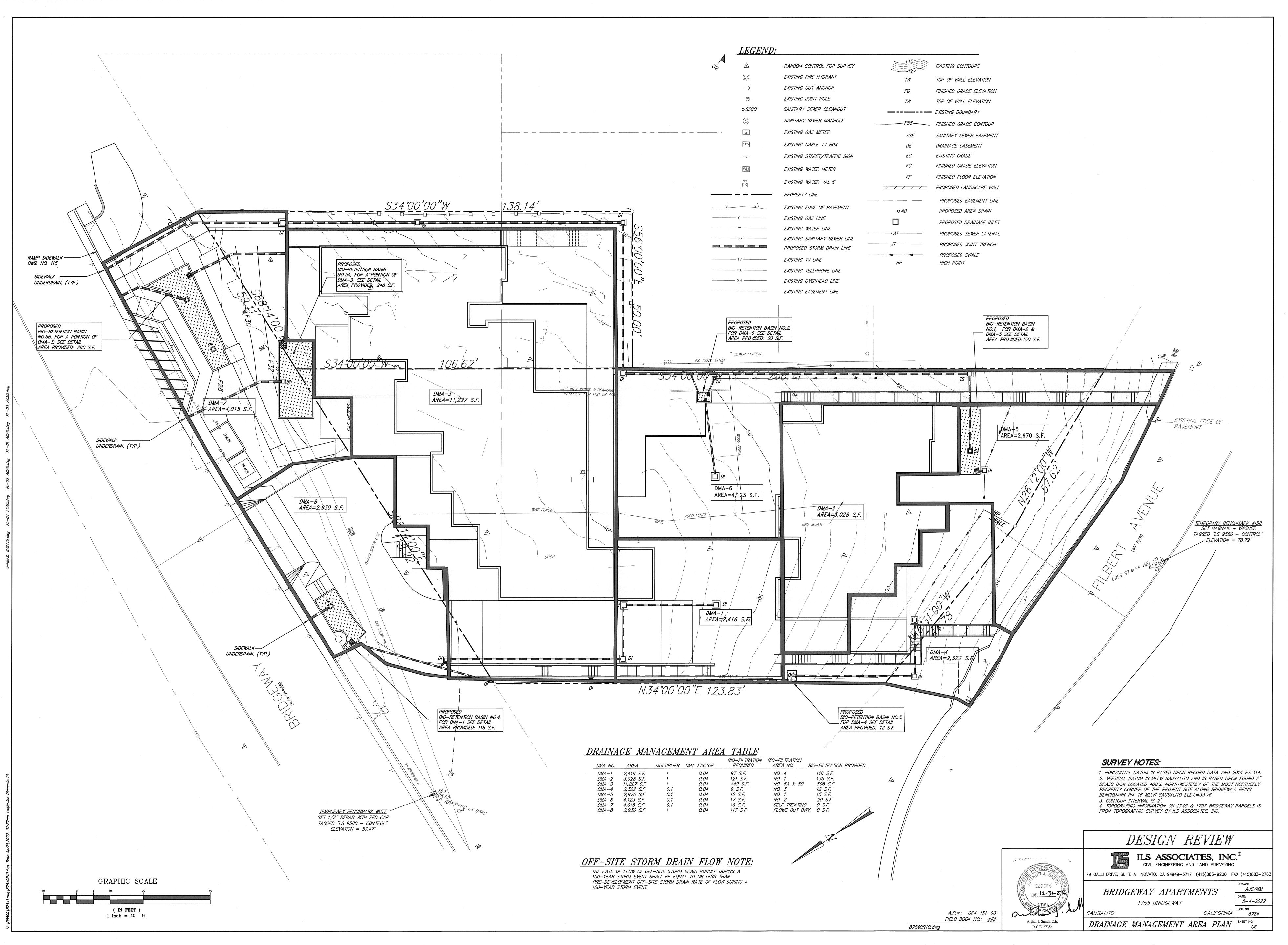
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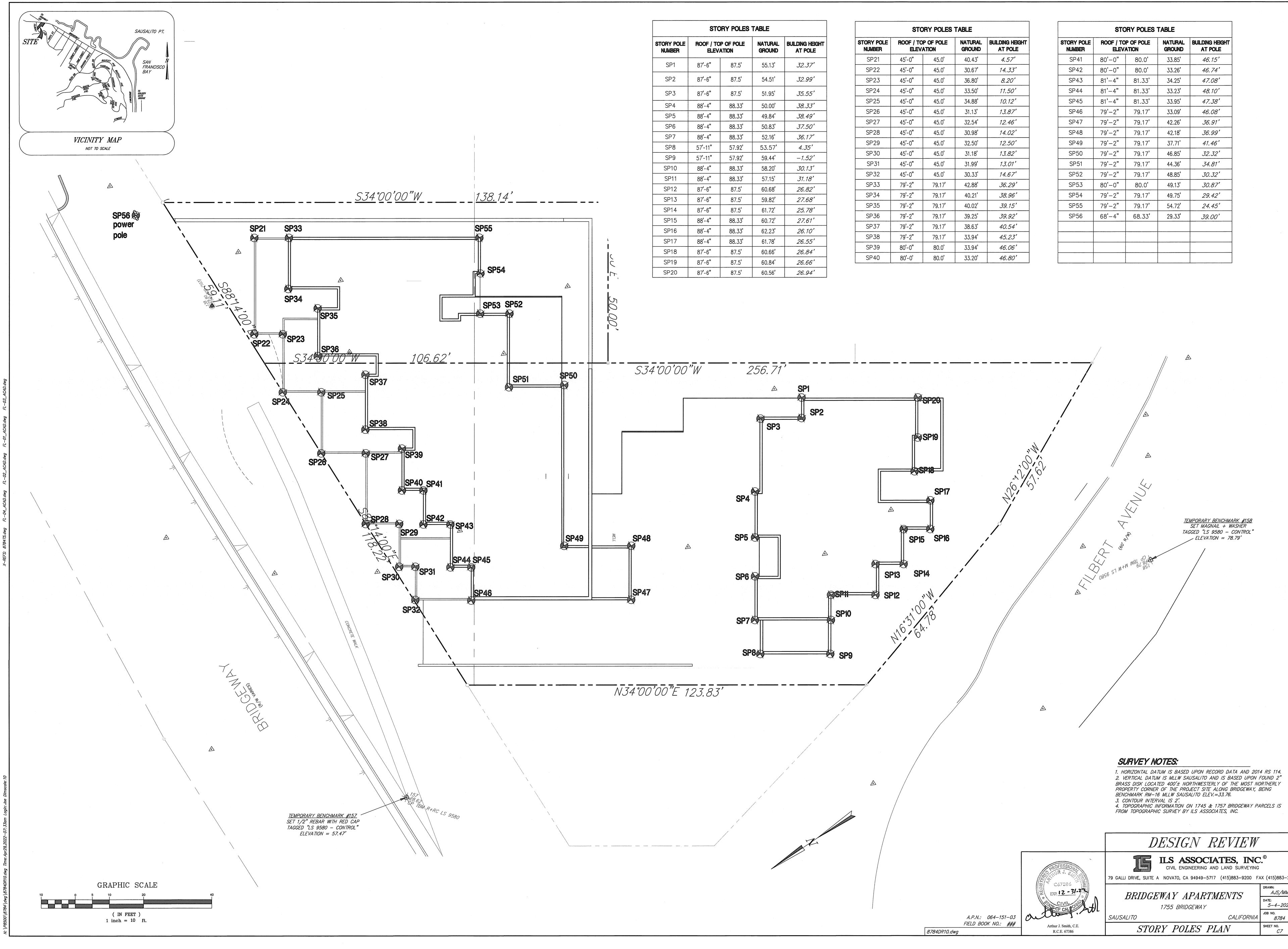




DRIVEWAY PROFILE 'A' SCALE: 1"=10' HOR./VERT. SEE DWG. NO. 140 FOR ADDITIONAL INFORMATION







Building Height At Pole
 32.37'
32.99'
35.55'
 38.33'
38.49'
37.50'
36.17'
4.35'
-1.52'
<i>30.13</i> '
31.18'
26.82'
27.68'
<i>25.78</i> '
27.61'
26.10'
 26.55'
 26.84'
 26.66'
26.94'

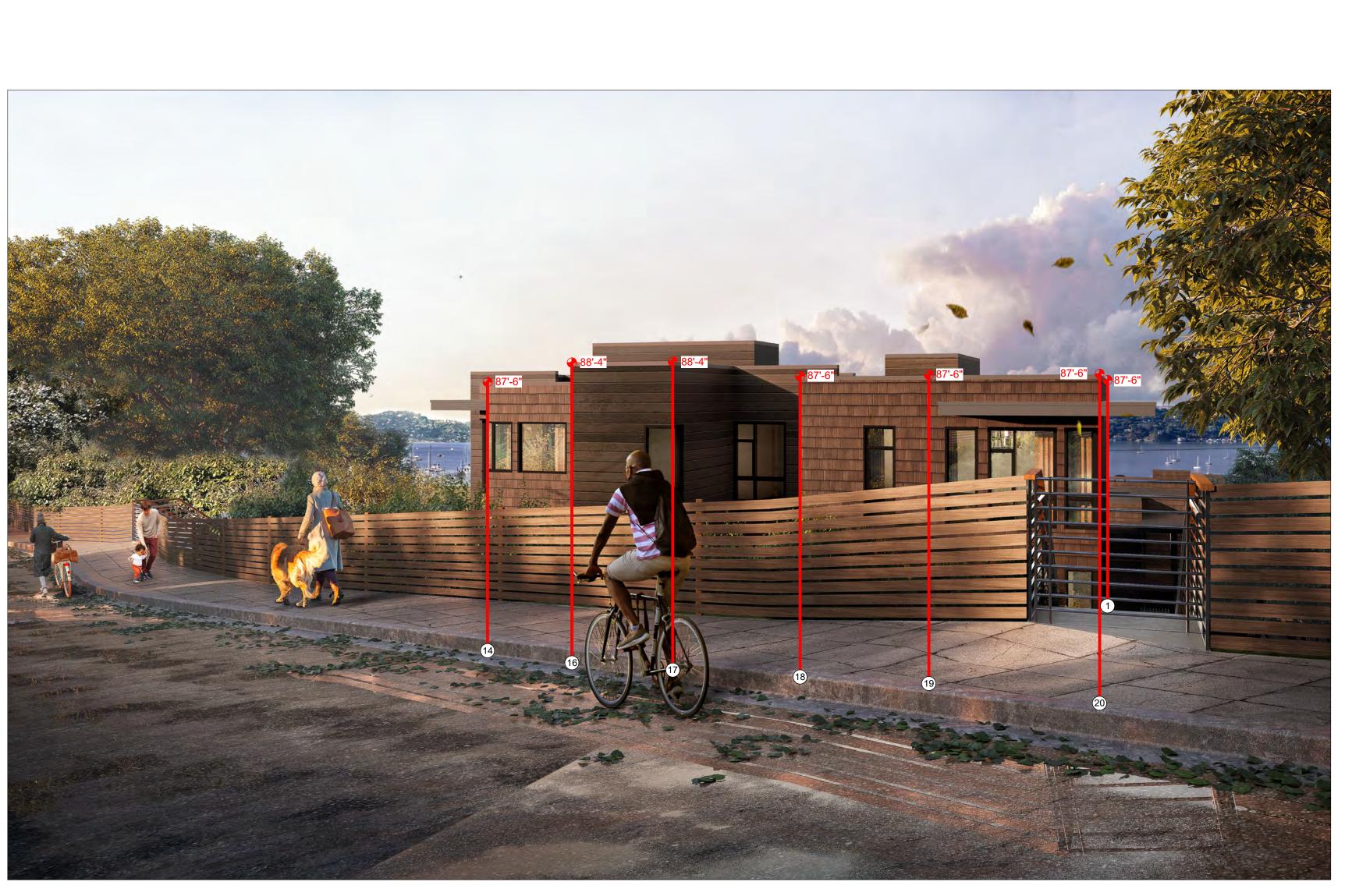
		-		
STORY POLES TABLE				
STORY POLE NUMBER	ROOF / TOP OF POLE ELEVATION		NATURAL GROUND	BUILDING HEIGHT AT POLE
SP21	45'-0"	45.0'	40.43'	4.57'
SP22	45'-0"	45.0 '	30.67'	14.33'
SP23	45'-0"	45.0 '	36.80'	<i>8.20'</i>
SP24	45'-0"	45.0 '	33.50'	11.50'
SP25	45'-0"	45.0 '	34.88'	10.12'
SP26	45'-0"	45.0 '	31.13'	13.87'
SP27	45'-0"	45.0 '	32.54'	12.46'
SP28	45'-0"	45.0 '	30.98'	14.02'
SP29	45'-0"	45.0 '	32.50'	12.50'
SP30	45'-0"	45.0 '	31.18'	13.82'
SP31	45'-0"	45.0'	31.99'	13.01'
SP32	45'-0"	45.0 '	30.33'	14.67'
SP33	79'-2"	79.17 '	42.88'	36.29'
SP34	79 ' -2"	79.17 '	40.21'	38.96'
SP35	79 ' -2"	79.17 '	40.02'	<i>39.15'</i>
SP36	79 ' -2"	79.17 '	39.25'	<i>39.92'</i>
SP37	79 ' -2"	79.17 '	38.63'	40.54'
SP38	79 ' -2"	79.17 '	33.94'	45.23'
SP39	80'-0"	80.0'	33.94'	46.06'
SP40	80'-0'	80.0'	33.20'	46.80'

	STC	RY POLES	TABLE		
STORY POLE NUMBER	ROOF / TOP OF POLE ELEVATION		NATURAL GROUND	Building height At Pole	
SP41	80'-0"	80.0'	33.85'	46.15'	
SP42	80'-0"	80.0'	33.26'	<i>46.74'</i>	
SP43	81'-4"	81.33'	34.25'	47.08'	
SP44	81'-4"	81.33'	33.23'	<i>48.10'</i>	
SP45	81'-4"	81.33'	33.95'	47.38'	
SP46	79'-2"	79.17 '	33.09'	46.08'	
SP47	79'-2"	79.17'	42.26'	36.91'	
SP48	79'-2"	79.17 '	42.18'	36.99'	
SP49	79'-2"	79.17'	37.71'	41.46'	
SP50	79'-2"	79.17'	46.85'	32.32'	
SP51	79'-2"	79.17 '	44.36'	34.81'	
SP52	79'-2"	79.17 '	48.85'	30.32'	
SP53	80'-0"	80.0'	49.13'	30.87'	
SP54	79 ' -2"	79.17 '	49.75'	29.42'	
SP55	79'-2"	79.17 '	54.72'	24.45'	
SP56	68 ' -4"	68.33 '	29.33'	<i>39.00'</i>	

ASED UPON RECORD DATA AND 2014 RS 114.
W SAUSALITO AND IS BASED UPON FOUND 2"
NORTHWESTERLY OF THE MOST NORTHERLY
PROJECT SITE ALONG BRIDGEWAY, BEING
SAUSALITO ELEV.=33.76.
•

GN REVIEW			
ASSOCIATES, INC. [©] ENGINEERING AND LAND SURVEYING			
), CA 94949-5717 (415)883-9200 FAX (415)883-2763			
APARTMENTS	drawn: AJS/MM		
AI AIVI MILINI S BRIDGEWAY	DATE: 5-4-2022		
CALIFORNIA	job no. <i>8784</i>		

	CALIFORNIA	job no. <i>8784</i>
OLES	PLAN	SHEET NO. C7





STORY POLE DIAGRAM

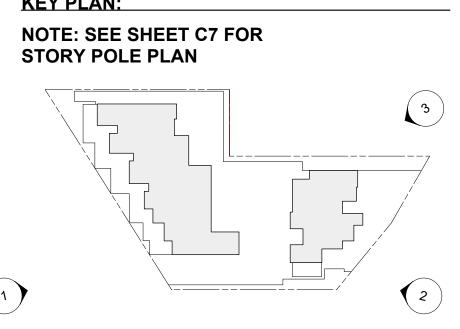






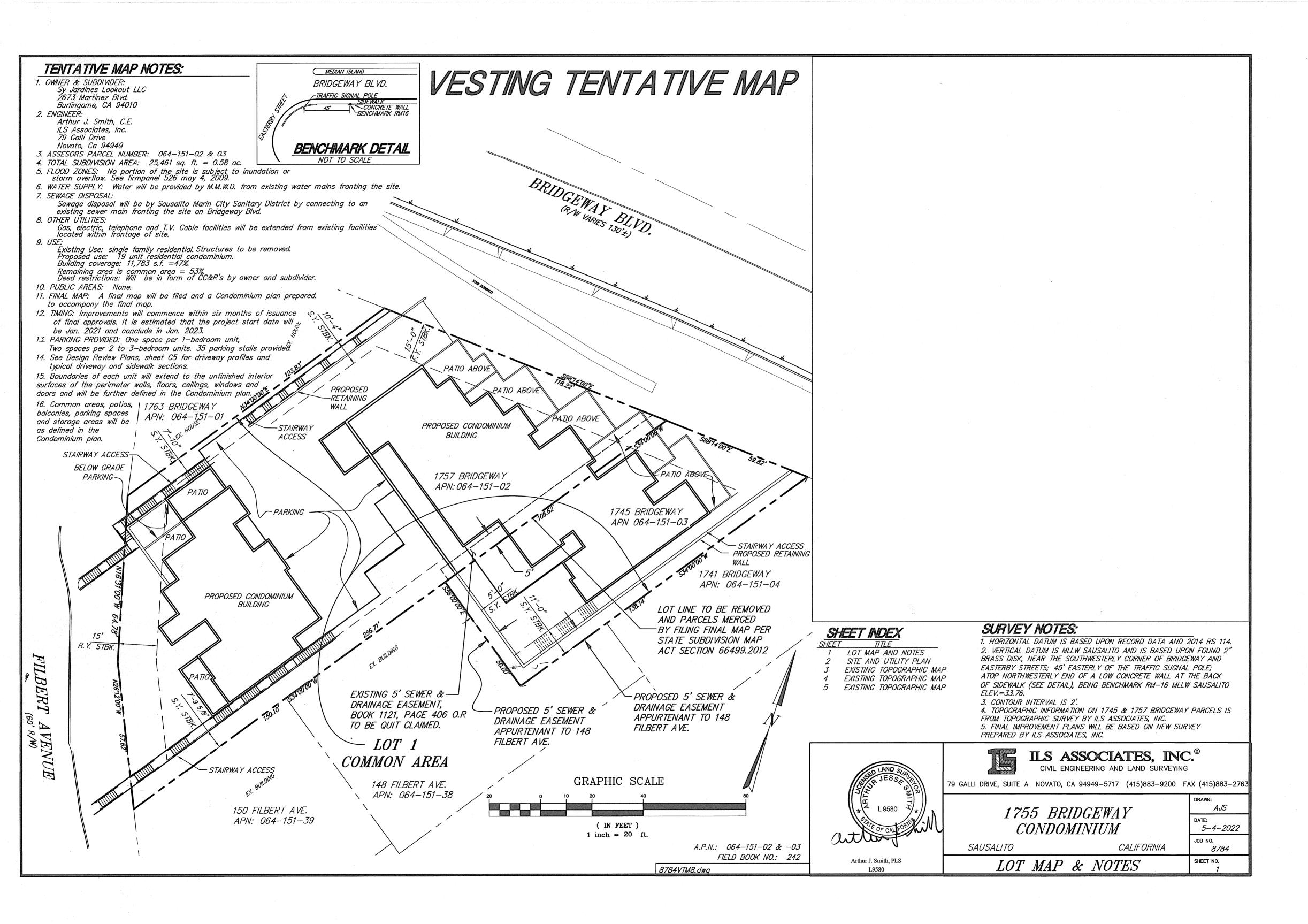
STORY POLE DIAGRAM

2

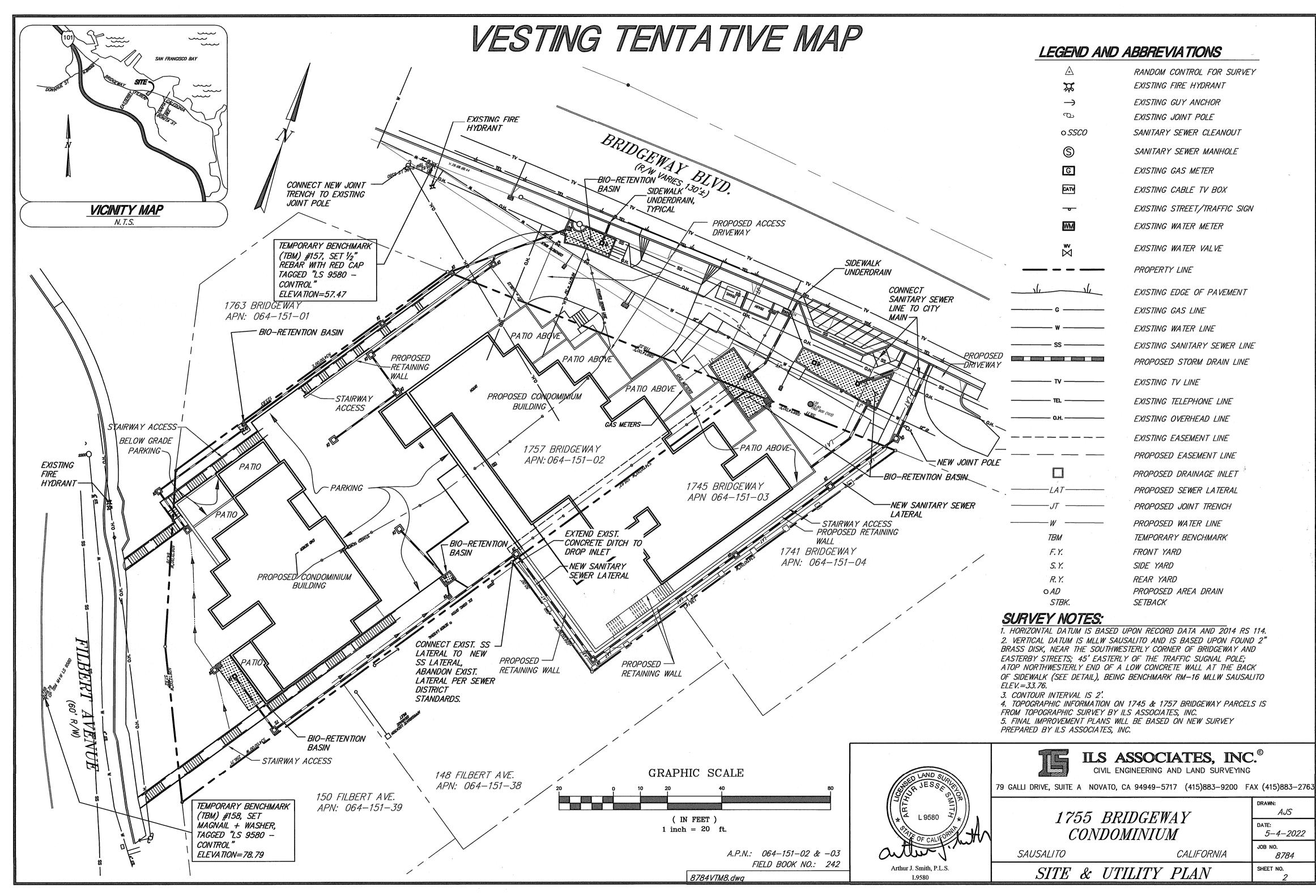


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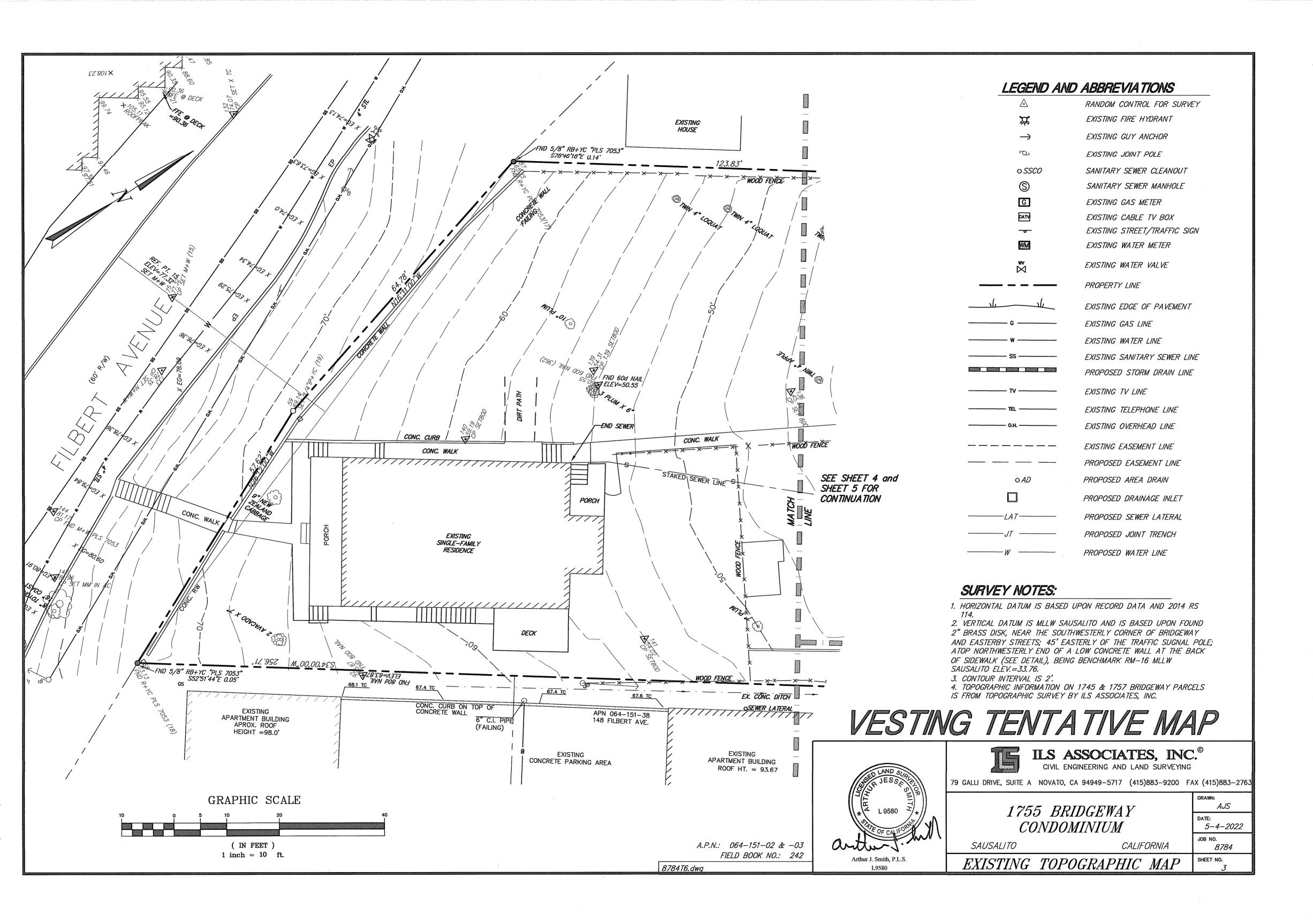


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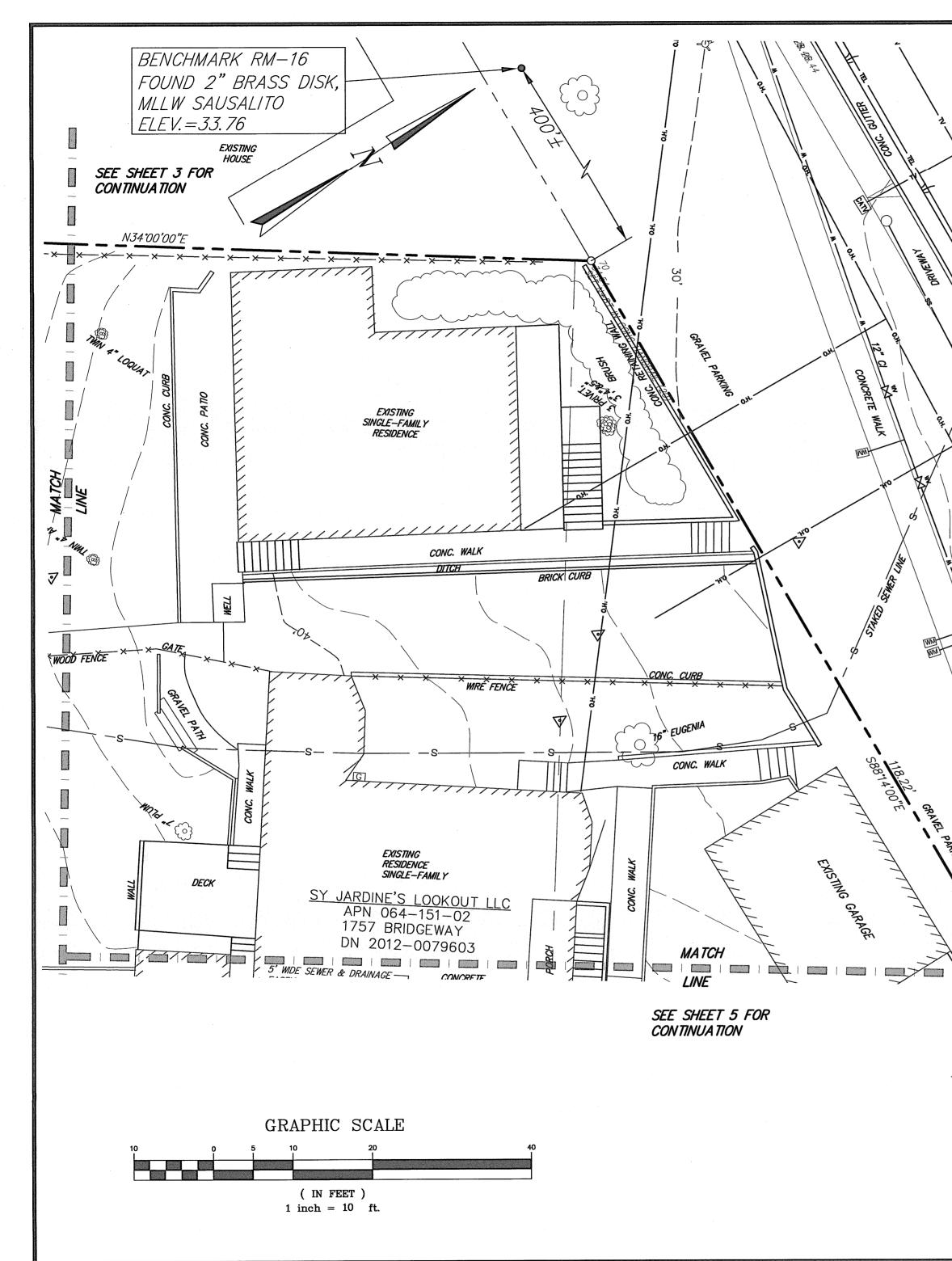


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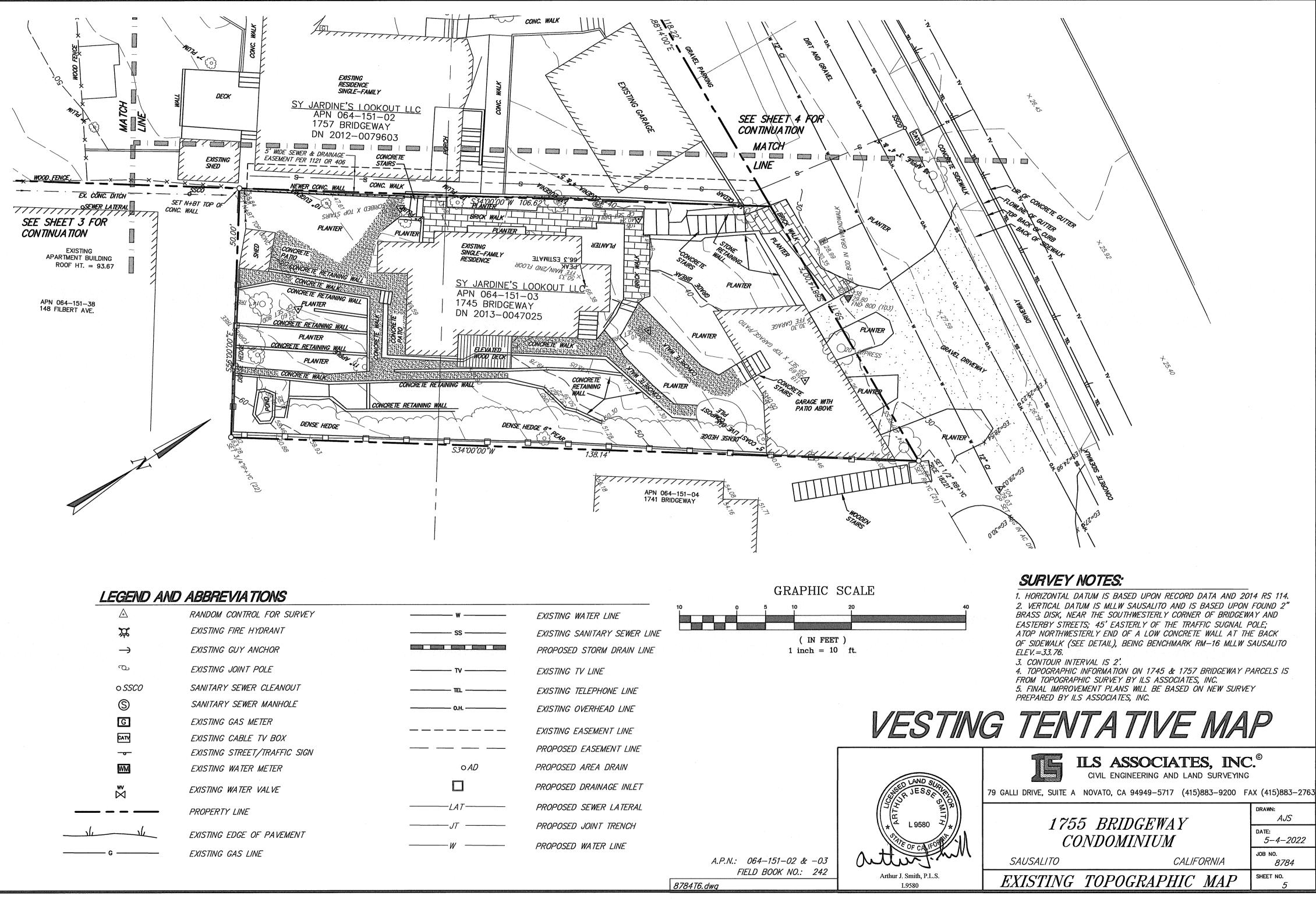
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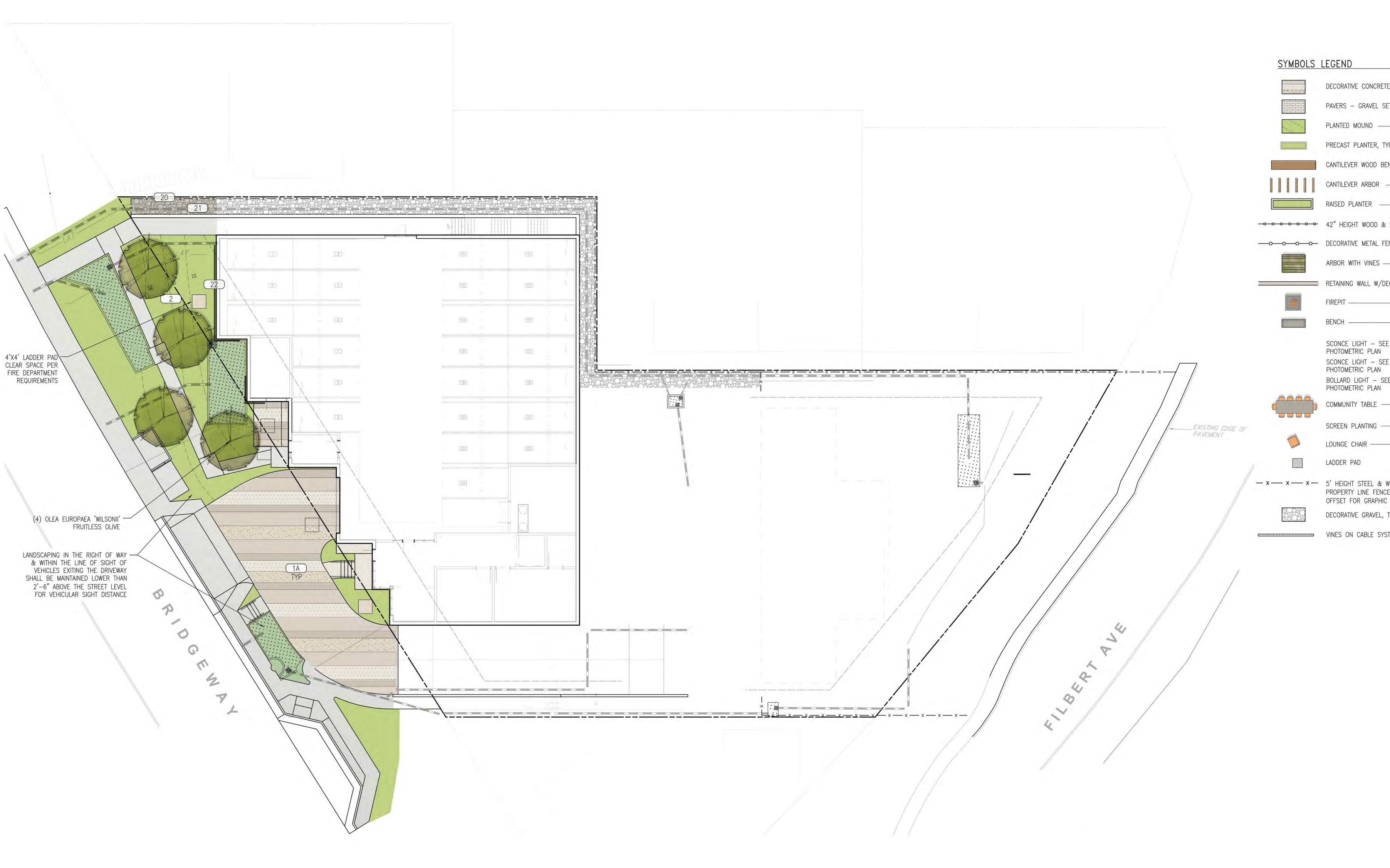
			LEGEND AN	ND ABBREVIA TIONS
	Ň			RANDOM CONTROL FOR SURVEY
			Å	EXISTING FIRE HYDRANT
2			\rightarrow	EXISTING GUY ANCHOR
\sum			ى ت	EXISTING JOINT POLE
			0 <i>SSC0</i>	SANITARY SEWER CLEANOUT
2			S	SANITARY SEWER MANHOLE
$\langle \rangle$			G	EXISTING GAS METER
		\mathbf{h}	CATY	EXISTING CABLE TV BOX
				EXISTING STREET/TRAFFIC SIGN
	2 AARTES		WM 	EXISTING WATER METER EXISTING WATER VALVE
$\backslash \lambda$				PROPERTY LINE
	Z			
R				EXISTING EDGE OF PAVEMENT
			G	EXISTING GAS LINE
X				EXISTING WATER LINE
	SIDEWALK			EXISTING SANITARY SEWER LINE
				PROPOSED STORM DRAIN LINE
0,4			TV	EXISTING TV LINE
λ_1^{\dagger}			TEL	EXISTING TELEPHONE LINE
- H			о.н. ———	EXISTING OVERHEAD LINE
				EXISTING EASEMENT LINE
\mathbb{A}				PROPOSED EASEMENT LINE
			\\ ○AD	PROPOSED AREA DRAIN
	GUTTER GUTTER	667:12ET M+W (16)		PROPOSED DRAINAGE INLET
		A+W (I	LAT	PROPOSED SEWER LATERAL
	CONC D S	₩. \ °	JT	PROPOSED JOINT TRENCH
				PROPOSED WATER LINE
			AREA NOTE:	
	T2" RT AND		THE TOTAL COMBINED AREA OF E SHOWN IS 25,461± SQUARE FEET	
PARKING	DIRT AND GRAVEL		SURVEY NOTES:	· · · · · · · · · · · · · · · · · · ·
8				ON RECORD DATA AND 2014 RS 114. LITO AND IS BASED UPON FOUND 2"
			BRASS DISK, NEAR THE SOUTHWEST EASTERBY STREETS; 45' EASTERLY	ERLY CORNER OF BRIDGEWAY AND
		See Int 1	ATOP NORTHWESTERLY END OF A LO	
			ELEV.=33.76. 3. CONTOUR INTERVAL IS 2'.	
				745 & 1757 BRIDGEWAY PARCELS IS ASSOCIATES, INC.
			5. FINAL IMPROVEMENT PLANS WILL PREPARED BY ILS ASSOCIATES, INC.	BE BASED ON NEW SURVEY
		VECTIM	G TENTAT	NE MAD
	1	VLOIIIV		
				CIATES, INC. [©]
		SED LAND SURIE		9–5717 (415)883–9200 FAX (415)883–2763
		OR SINT THE		DRAWN:
		L 9580	1755 BRIDGI	DATE:
		STATE OF CALLEDRING	CONDOMINI	
	A.P.N.: 064-151-02 & -03	author J. mul	SAUSALITO	CALIFORNIA JOB NO. 8784
	FIELD BOOK NO.: 242 8784T6.dwg	Arthur J. Smith, P.L.S. L9580	EXISTING TOPOGR	APHIC MAP SHEET NO. 4





	RANDOM CONTROL FOR SURVEY	W	EXISTING WATER L
¥.	EXISTING FIRE HYDRANT	SS	EXISTING SANITAR
\rightarrow	EXISTING GUY ANCHOR		PROPOSED STORM
С	EXISTING JOINT POLE	TV	EXISTING TV LINE
0 <i>SSCO</i>	SANITARY SEWER CLEANOUT	TEL	EXISTING TELEPHO
S	SANITARY SEWER MANHOLE	0.H	EXISTING OVERHEA
G	EXISTING GAS METER		
CATV	EXISTING CABLE TV BOX		EXISTING EASEMEN
	EXISTING STREET/TRAFFIC SIGN		PROPOSED EASEME
WM	EXISTING WATER METER	o AD	PROPOSED AREA D
×	EXISTING WATER VALVE		PROPOSED DRAINA
	PROPERTY LINE	LAT	PROPOSED SEWER
		JT	PROPOSED JOINT
	EXISTING EDGE OF PAVEMENT	<i>W</i>	PROPOSED WATER
G	EXISTING GAS LINE		



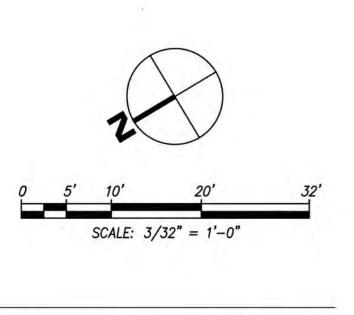




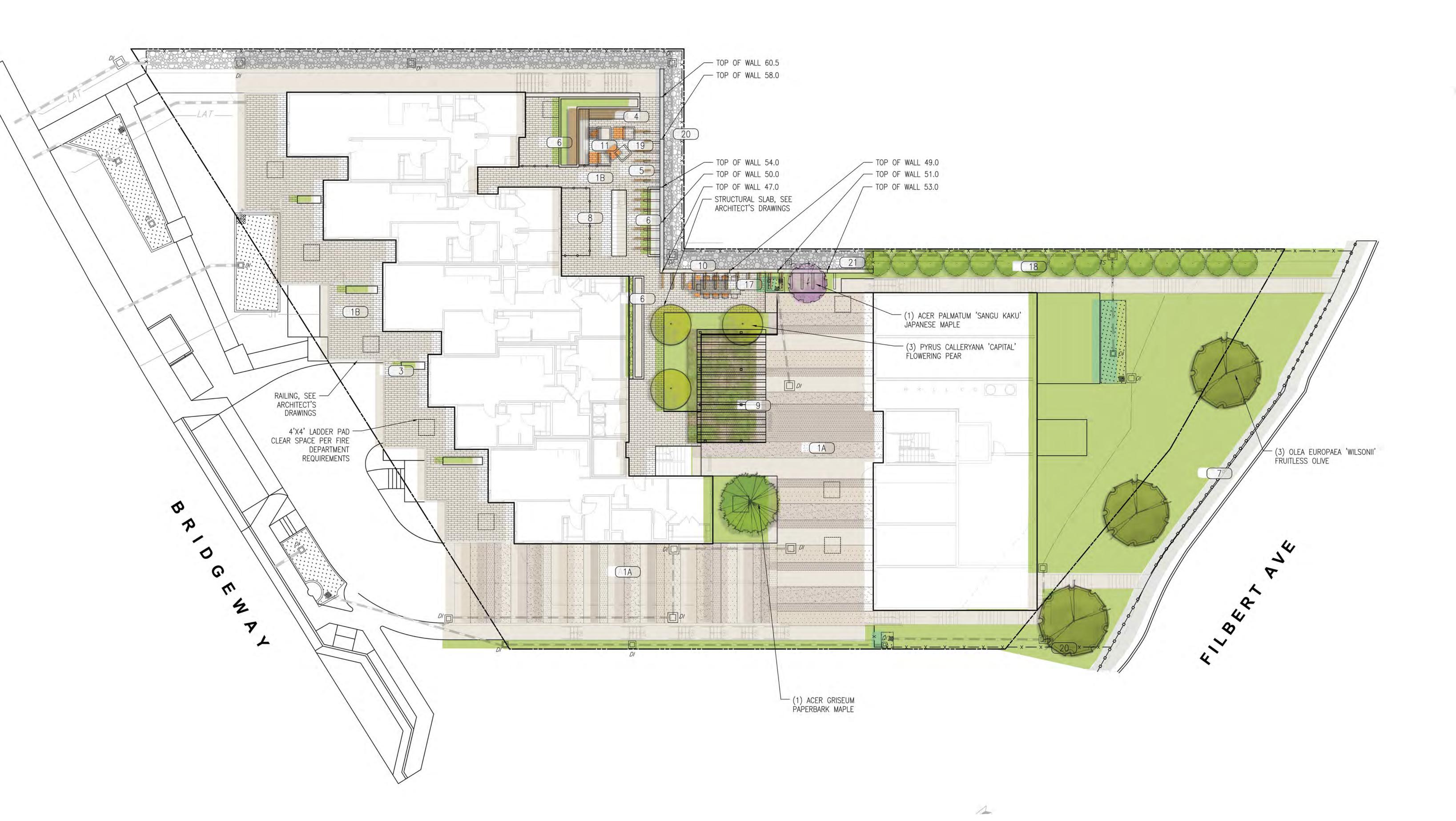


PROJECTNORTH TRUE NORTH

E PAVING	- 1A
ET	- <u>1</u> B
	2
YPICAL	3
ENCH	4
	- 5
	6
STEEL GUARDRAIL-	- 7
ENCE	- 8
	- 9
ECORATIVE FINISH —	10
	- 11
	12
E	- 14
E	- 15
E	- 16
	- 17
	- 18
	- 19
WOOD	20
TYPICAL	21
STEM	22



L1.1





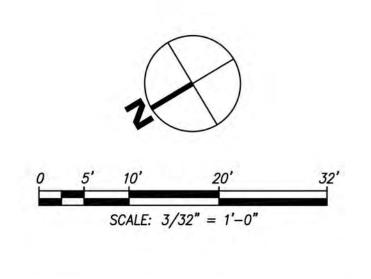


PROJECTNORTH X TRUE NORTH

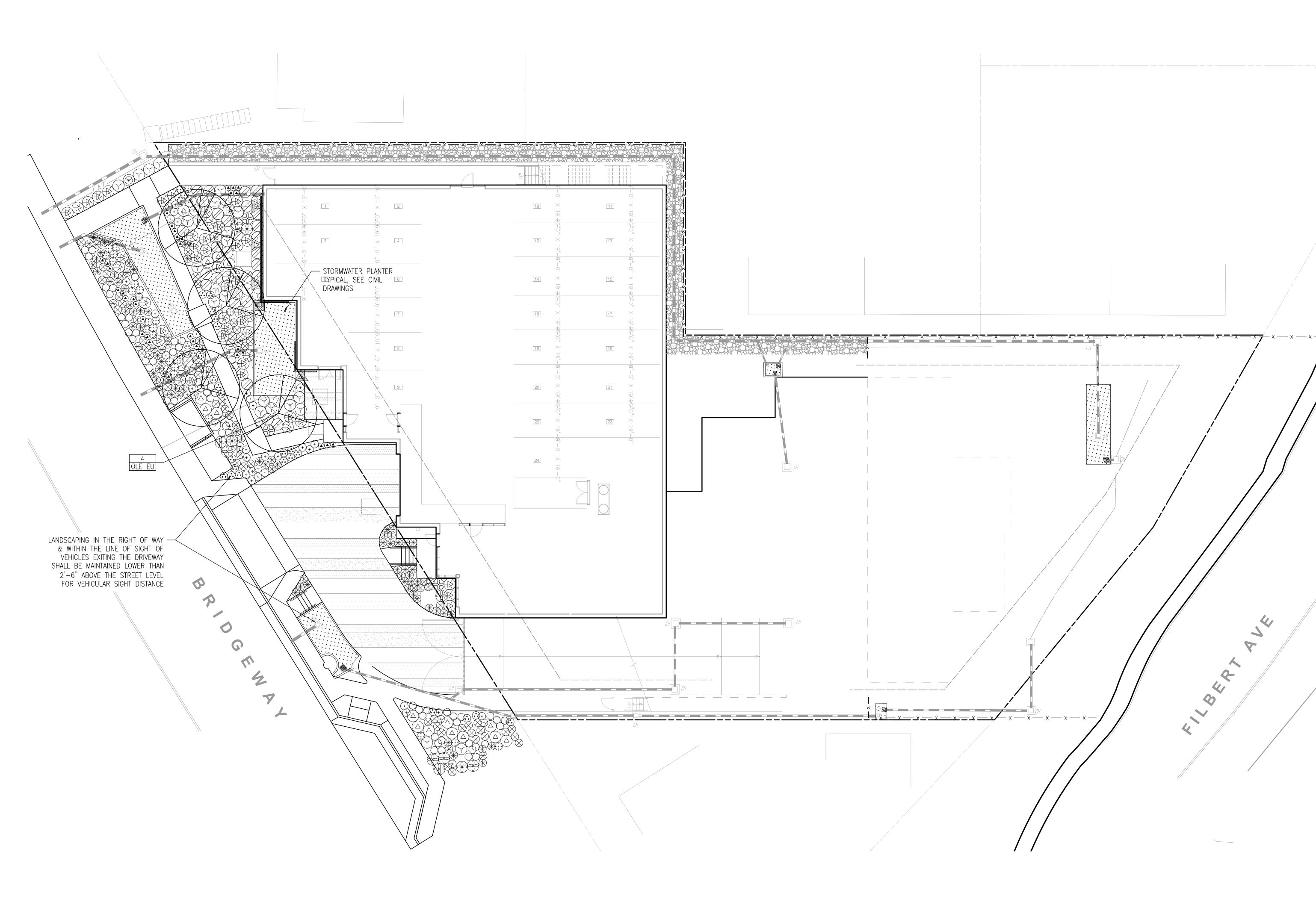
SYMBOLS LEGEND

STMDULS	LEGEND
A THE AND A	DECORATIVE CONCRE
	PAVERS – GRAVEL S
	PLANTED MOUND
	PRECAST PLANTER, T
	CANTILEVER WOOD B
	CANTILEVER ARBOR
	RAISED PLANTER —
<u></u>	42" HEIGHT WOOD &
<u> </u>	DECORATIVE METAL F
	ARBOR WITH VINES -
	RETAINING WALL W/D
	FIREPIT

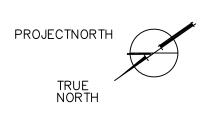
	DECORATIVE CONCRETE PAVING	1A
	PAVERS – GRAVEL SET –	1B
	PLANTED MOUND	2
	PRECAST PLANTER, TYPICAL	3
	CANTILEVER WOOD BENCH	4
	CANTILEVER ARBOR	- 5
	RAISED PLANTER	6
<u></u>	42" HEIGHT WOOD & STEEL GUARDRAIL—	- 7
oo	DECORATIVE METAL FENCE	8
4	ARBOR WITH VINES	9
	RETAINING WALL W/DECORATIVE FINISH	10
	FIREPIT	11
	BENCH	12
	SCONCE LIGHT – SEE – – – – – – – – – – – – – – – – –	14
	SCONCE LIGHT – SEE – PHOTOMETRIC PLAN	15
	BOLLARD LIGHT – SEE – PHOTOMETRIC PLAN	16
	COMMUNITY TABLE	17
	SCREEN PLANTING	18
	LOUNGE CHAIR	19
	LADDER PAD	
— x — x — x —	5' HEIGHT STEEL & WOOD	20
	DECORATIVE GRAVEL, TYPICAL	21
	VINES ON CABLE SYSTEM	22











PLANT	LIST					
SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	QTY	WTR USE
TREES		1			1	1
ACE GR	ACER GRISEUM	PAPERBARK MAPLE	36" BOX	PER PLAN	1	М
ACE PA	ACER PALMATUM 'SANGO KAKU'	JAPANESE MAPLE	24" BOX	PER PLAN	1	М
OLE EU	OLEA EUROPAEA 'WILSONII'	FRUITLESS OLIVE	36" BOX	PER PLAN	7	VL
PYR CA	PYRUS CALLERYANA 'CAPITAL'	FLOWERING PEAR	48" BOX	PER PLAN	3	М
SHRUBS	& GRASSES		I	I	1	1
*	ACHILLEA MILLEFOLIUM 'MOONSHINE'	YARROW	1 GAL	2'-0" OC		L
	AEONIUM 'SUNBURST'	COPPER PINWHEEL	1 GAL	1'-6" OC		L
	AGAVE ATTENUATA 'NOVA'	BLUE FOXTAIL AGAVE	5 GAL	3'-0" OC		L
\otimes	CAREX DIVULSA	BERKELEY SEDGE	1 GAL	1'-6" OC		L
	CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER'	FEATHER REED GRASS	5 GAL	3'-0" OC		L
\bigcirc	DESCHAMPSIA CESPITOSA	TUFTED HAIR GRASS	1 GAL	2'-0" OC		L
	ERIOGONUM GRANDE VAR. RUBESCENS	SAN MIGUEL ISLAND BUCKWHEAT	1 GAL	3'-0" OC		L
•••	ERIGONIUM HERACLEOIDES	PARSNIP FLOWERED BUCKWHEAT	1 GAL	2'-0" OC		L
+	JUNCUS PATENS	CALIF. GRAY RUSH	1 GAL	2'-0" OC		L
Ŷ	LEYMUS CONDENSATUS 'CANYON PRINCE'	CANYON PRINCE WILD RYE	5 GAL	3'-0" OC		L
\bigotimes	LOMANDRA LONGIFOLIA 'BREEZE'	DWARF MAT RUSH	5 GAL	3'-0" OC		L
	PENSTEMON CLEVELANDII	CLEVELAND PENSTEMON	1 GAL	2'-0" OC		L
٢	PENSTEMON EATONII	FIRECRACKER PENSTEMON	1 GAL	1'-8" OC		L
	PENSTEMON SPECTABILIS	SHOWY PENSTEMON	1 GAL	3'-0" OC		L
+	PITTOSPORUM TENUIFOLIUM 'SILVER SHEEN'	SILVER SHEEN PITTOSPORUM	5 GAL	5'-0" OC		М
		1				
	ARCTOSTAPHYLOS 'EMERALD CARPET'	MANZANITA	1 GAL	4'-0" OC		L
	CEANOTHUS 'CENTENNIAL'	CEANOTHUS	1 GAL	4'-0" OC		L
STORMW	ATER PLANTING					
* * * * *	CAREX DIVULSA	BERKELEY SEDGE	1 GAL	2'-0" OC		L
v v v v v	JUNCUS PATENS	GRAY RUSH	1 GAL	2'-0" OC		L
V V V	SISYRINCHIUM BELLUM	BLUE-EYED GRASS	1 GAL	1'-0" OC		L
VINES						
	HARDENBERGIA VIOLACEA	PURPLE LILAC VINE	5 GAL	PER PLAN	4	L

TREE REPLACEMENT

PROTECTED TREES PROPOSED FOR REMOVAL: 25 PROPOSED REPLACEMENT TREES: 12 NOTE: SEE TREE MAP SHEET L5.1 FOR MORE INFORMATION

NOTES

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1755 BRIDGEWAY, SAUSALITO, CALIFORNIA

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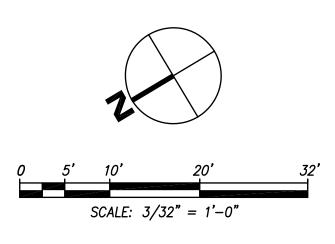
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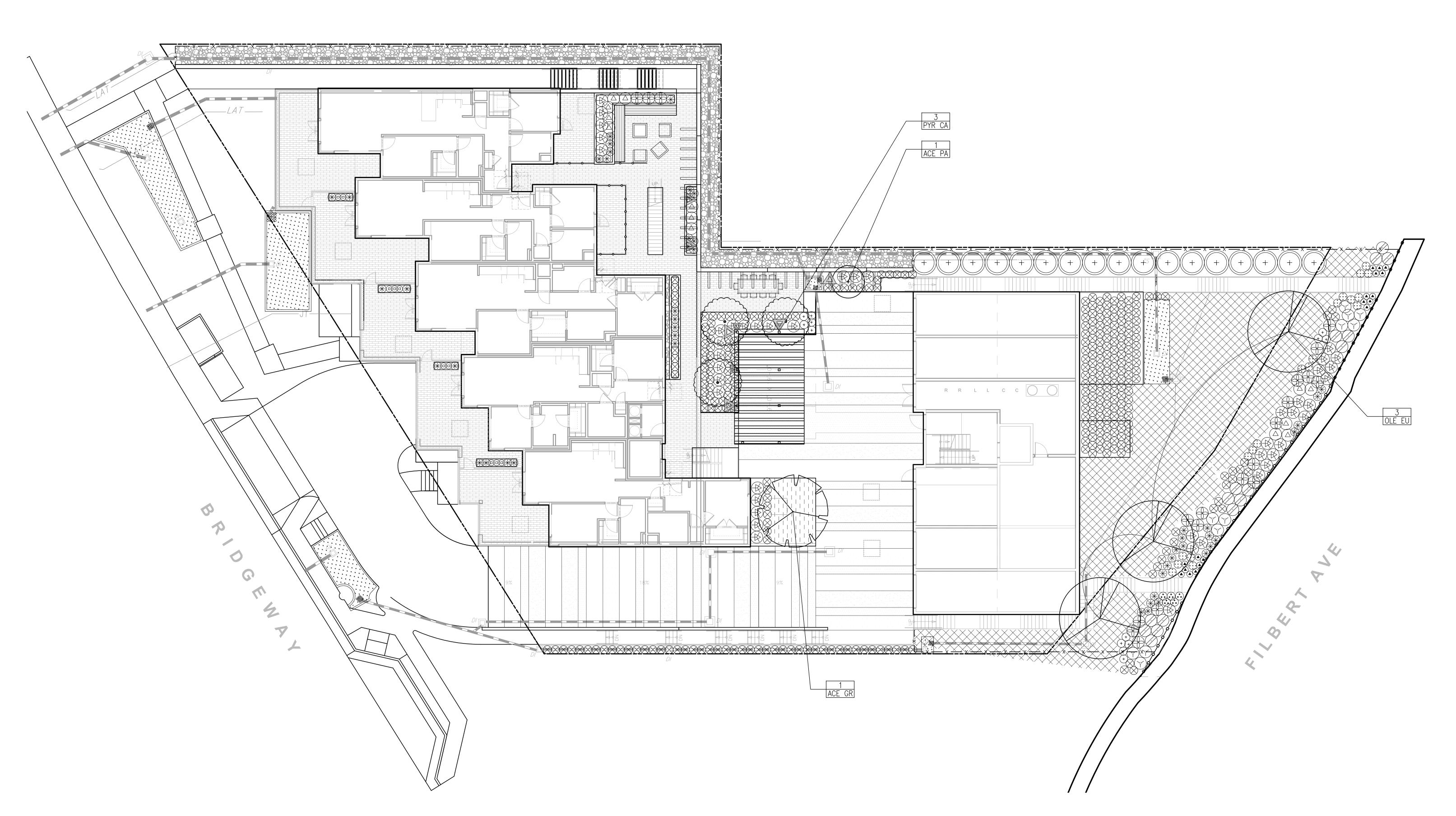
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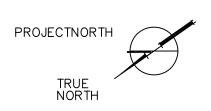
MINIMUM AMOUNT OF WATER REQUIRED TO MAINTAIN PLANT HEALTH.











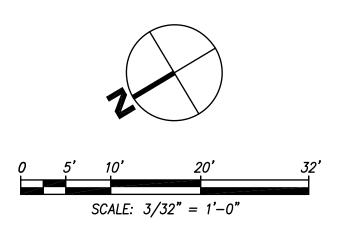
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\bigtriangledown	LEYMUS CONDENSATUS 'CANYON PRINCE'	CANYON PRINCE WILD RYE	5 GAL	3'-0" OC		L
	LOMANDRA LONGIFOLIA 'BREEZE'	DWARF MAT RUSH	5 GAL	3'-0" OC		L
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+	PITTOSPORUM TENUIFOLIUM 'SILVER SHEEN'	SILVER SHEEN PITTOSPORUM	5 GAL	5'-0" OC		М
GROUND	COVERS					
	ARCTOSTAPHYLOS 'EMERALD CARPET'	MANZANITA	1 GAL	4'-0" OC		L
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TREES



ACER GRISEUS

SHRUBS & GRASSES



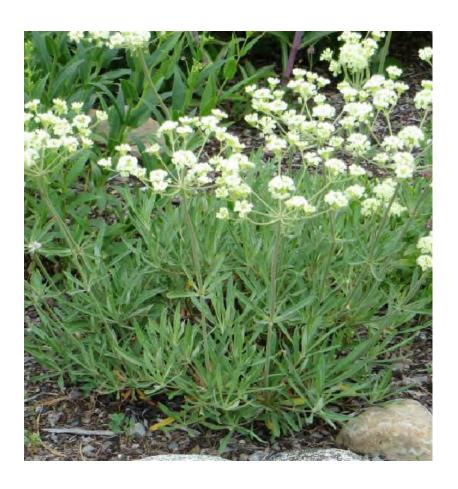
ACHILLEA MILLEFOLIUM 'MOONSHINE'



ACER PALMATUM 'SANGU KAKU'



AEONIUM 'SUNBURST'



ERIOGONUM HERACLEOIDES



JUNCUS PATENS

GROUNDCOVERS



ARCTOSTAPHYLOS 'EMERALD CARPET'





SY JARDINES LOOKOUT, LLC 1821 Ashton Ave Burlingame, CA 94010



CEANOTHUS 'CENTENNIAL'

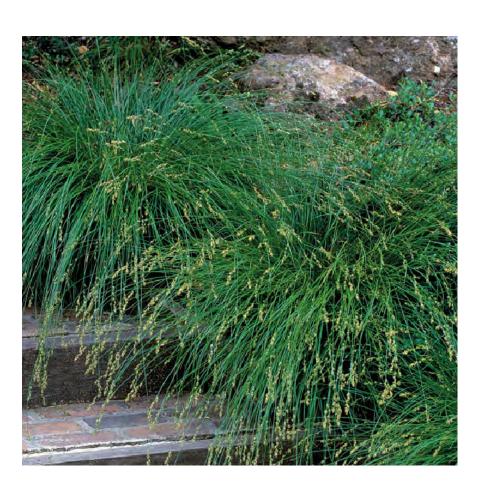
PROJECTNORTH ' TRUE NORTH



OLEA EUROPAEA



AGAVE ATTENUATA 'NOVA'



CAREX DIVULSA



LEYMUS CONDENSATUS 'CANYON PRINCE'



LOMANDRA LONGIFLORA 'BREEZE'



VINES



HARDENBERGIA VIOLACEA



PYRUS CALLERYANA 'CAPITAL'



CALAMAGROSTIS 'KARL FOERSTER'

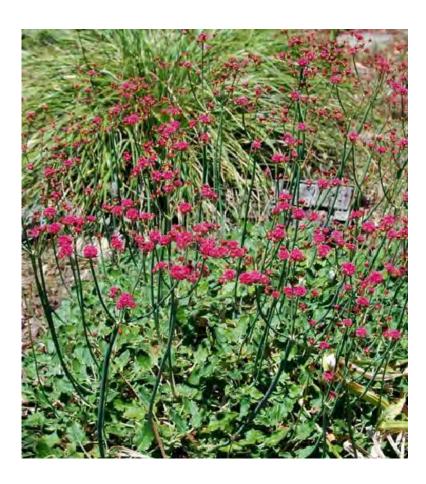


DESCHAMPSIA CESPITOSA

SCREEN SHRUBS



PITTOSPORUM TENUIFOLIUM 'SILVER SHEEN'



ERIGONIUM GRANDE VAR. RUBESCENS



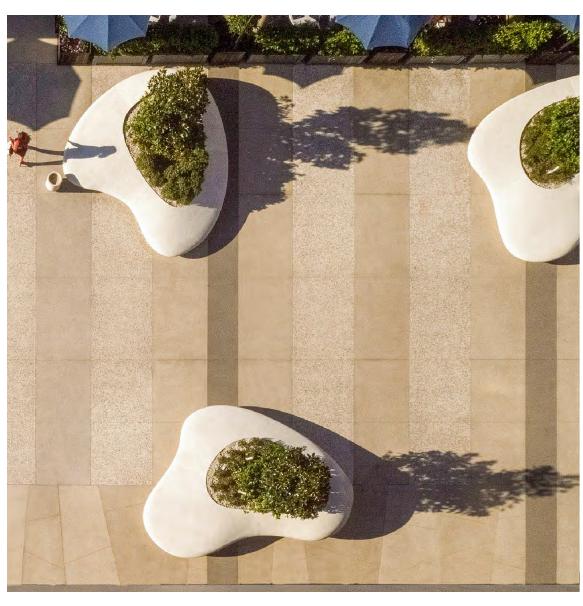
PENSTEMON CLEVELANDII



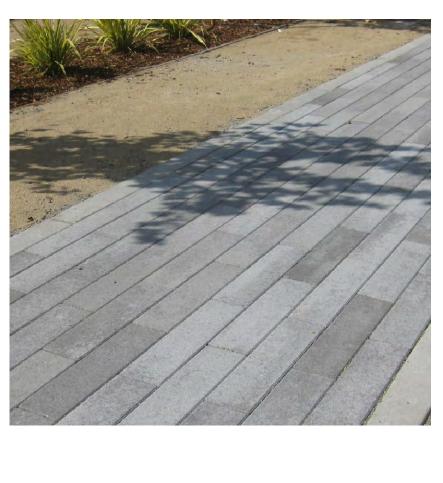
PENSTEMON EATONII



PENSTEMON SPECTABILIS



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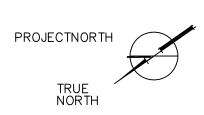
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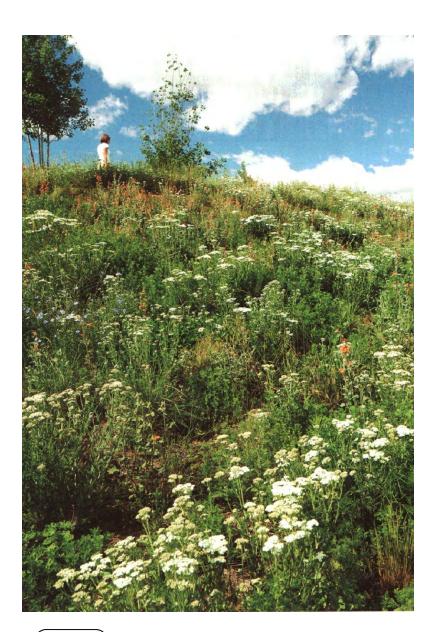




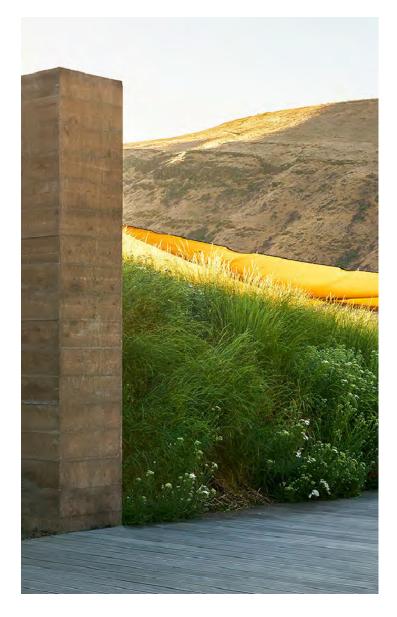


SY JARDINES LOOKOUT, LLC 1821 Ashton Ave Burlingame, CA 94010





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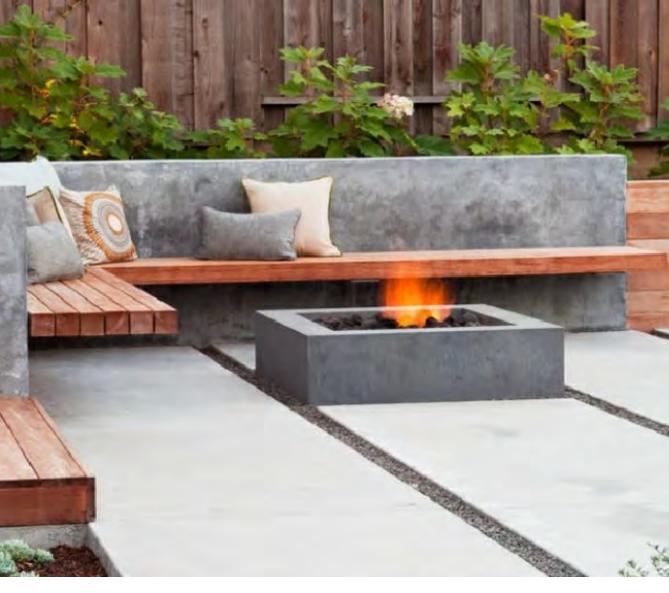


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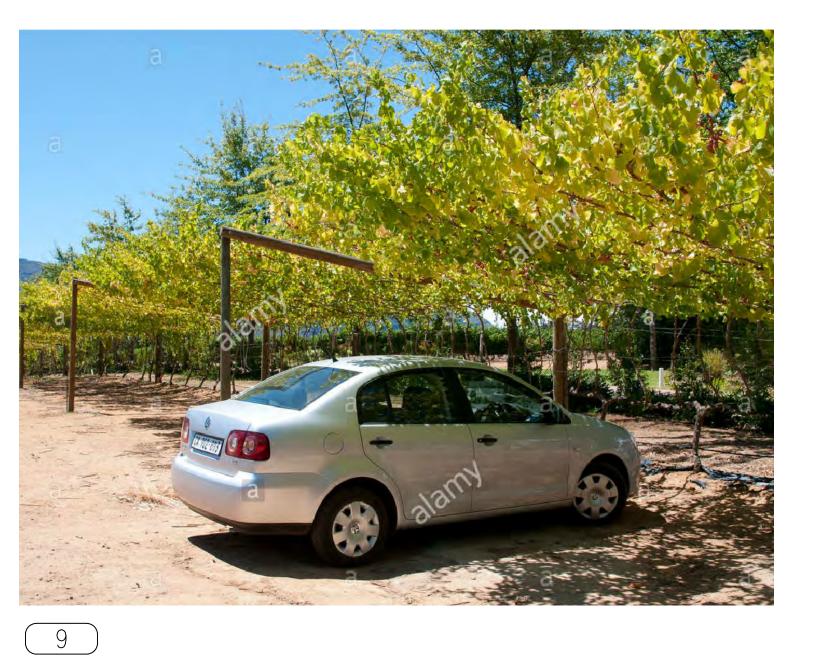


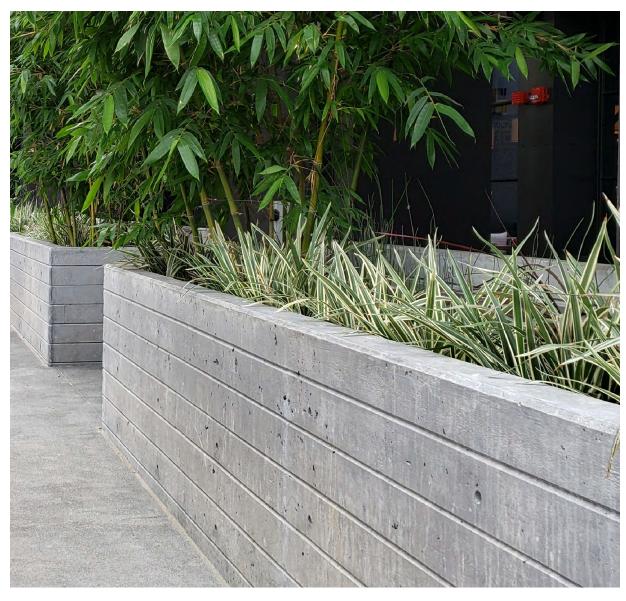




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1755 BRIDGEWAY, SAUSALITO, CALIFORNIA

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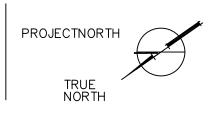




1 BRIDGEWAY ELEVATION scale: nts



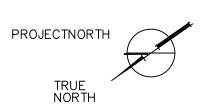


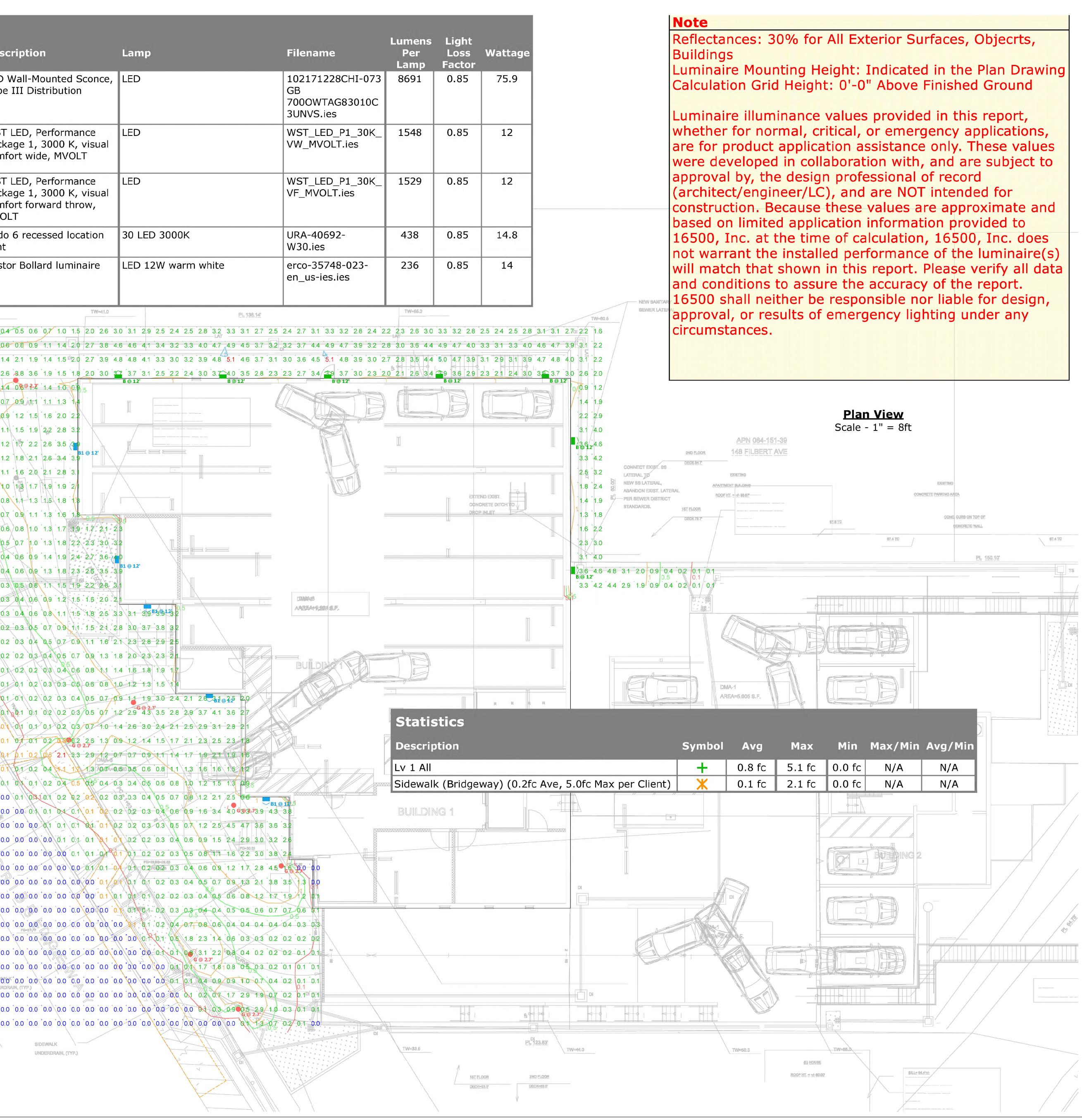


05.04.2022

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	B 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	12 8 8 9 9 0 0.0 0.0 0.0 0.0 0 0.0 0.0 0.0 0.0 0 0.0 0.	Lithonia Lighting Lithonia Lighting LIGMAN ERCO GmbH 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	7000WTAG83010C3UNVS WST LED P1 30K VW MVOLT WST LED P1 30K VF MVOLT URA-40692-W30 Erco Castor Bollard 35748023_V02 0.0 0.0 0.0 0.0 0.1 01 0.1 0.2 0.2 0.0 0.0 0.0 0.0 0.1 0.1 0.1 0.2 0.2 0.0 0.0 0.0 0.0 0.1 0.1 0.1 0.2 0.2 0.0 0.0 0.0 0.1 0.1 0.1 0.2 0.3 0.5 0.0 0.1 0.2 0.6 1.2 1.4 1.1 1.7 2.3 0.3 0.5 0.0 0.1 0.2 0.6 1.2 1.4 1.1 1.7 2.3 0.3 0.5 0.0 0.1 0.2 0.6 1.2 1.4 1.1 1.7 2.3 0.3 0.5 0.0 0.1 0.2 0.6 1.2 1.4 1.1 1.7 2.3 0.3 0.5 0.0 0.1 0.2 0.6 1.2 1.4 1.1 1.7 2.3 0.3 0.5 0.0 0.1 0.2 0.6 1.2 1.4 1.1 1.7 2.3 0.3 0.5 0.0 0.1 0.3 0.7 0.3 0.1 0.1 0.1 0.2 0.3 0.5 0.0 0.1 0.3 0.7 0.3 0.1 0.1 0.1 0.2 0.3 0.5 0.0 0.1 0.1 0.1 0.1 0.1 0.2 0.3 0.5 0.0 0.0 0.0 0.0 0.0 0.0 1.1 0.1 0.1 0.2 0.3 0.5 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.1 0.1 0.2 0.3 0.5 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.1 0.1 0.2 0.3 0.5 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.1 0.1 0.2 0.3 0.5 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.1 0.1 0.2 0.3 0.5 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.1 0.1 0.2 0.3 0.5 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.1 0.1 0.2 0.3 0.5 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.1 0.1 0.2 0.3 0.5 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.1 0.1 0.2 0.3 0.5 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.1 0.1 0.2 0.3 0.5 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.1 0.1 0.2 0.3 0.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.1 0.1	Casto 335 0.3 0.4 0.4 0.6 0.7 1.4 1.2 2.6 1 1 1.4 0.6 0.7 0.6 0.9 0.7 1.1 0.8 1.2 0.8 1.2 0.8 1.2 0.8 1.2 0.8 1.2
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	E G 0 0.0 0. 0 0.0 0. 0 0.0 0. 0 0.0 0. 0 0.0 0.	43 9 0 0.0 0.0 0.0 0.0 0 0.0 0.0 0.0 0.0 0 0.0 0.	Lighting LIGMAN ERCO GmbH 0.0	$\begin{array}{c} \text{URA-40692-W30} \\ \hline \\ \text{Erco Castor Bollard} \\ \textbf{35748023_V02} \\ \hline \\ \hline \\ 0.0 & 0.0 & 0.0 & 0.0 & 0.1 & 0.1 & 0.1 & 0.2 & 0.2 \\ 0.0 & 0.0 & 0.0 & 0.0 & 0.1 & 0.1 & 0.1 & 0.2 & 0.2 \\ 0.0 & 0.0 & 0.0 & 0.1 & 0.1 & 0.1 & 0.2 & 0.2 & 0.3 & 0.3 \\ 0.0 & 0.0 & 0.0 & 0.1 & 0.1 & 0.1 & 0.2 & 0.2 & 0.3 & 0.3 \\ 0.0 & 0.0 & 0.1 & 0.1 & 0.1 & 0.2 & 0.3 & 0.5 & 0.6 & 0.6 \\ 0.0 & 0.0 & 0.1 & 0.1 & 0.2 & 0.2 & 0.4 & 0.8 & 1.6 & 1.7 & 1.1 \\ 0.0 & 0.1 & 0.2 & 0.6 & 1.2 & 1.4 & 1.1 & 1.7 & 2.8 & 0.9 & 0.5 \\ 0.0 & 0.1 & 0.2 & 0.6 & 1.2 & 1.4 & 1.1 & 1.7 & 2.8 & 0.9 & 0.5 \\ 0.0 & 0.1 & 0.4 & 1.5 & 2.4 & 0.2 & 0.3 & 0.3 & 0.2 & 0.3 & 0.5 \\ 0.0 & 0.1 & 0.4 & 1.5 & 2.4 & 0.2 & 0.3 & 0.3 & 0.2 & 0.3 & 0.5 \\ 0.0 & 0.1 & 0.4 & 1.5 & 2.4 & 0.2 & 0.3 & 0.3 & 0.2 & 0.3 & 0.5 \\ 0.0 & 0.1 & 0.1 & 0.1 & 0.1 & 0.1 & 0.1 & 0.2 & 0.3 & 0.5 \\ 0.0 & 0.1 & 0.1 & 0.1 & 0.1 & 0.1 & 0.1 & 0.2 & 0.3 & 0.5 \\ 0.0 & 0.0 & 0.0 & 0.0 & 0.0 & 0.1 & 0.1 & 0.1 & 0.2 & 0.3 & 0.4 \\ 0.0 & 0.0 & 0.0 & 0.0 & 0.0 & 0.1 & 0.1 & 0.1 & 0.2 & 0.3 & 0.4 \\ 0.0 & 0.0 & 0.0 & 0.0 & 0.0 & 0.1 & 0.1 & 0.1 & 0.2 & 0.3 & 0.4 \\ 0.0 & 0.0 & 0.0 & 0.0 & 0.0 & 0.1 & 0.1 & 0.1 & 0.2 & 0.3 & 0.4 \\ 0.0 & 0.0 & 0.0 & 0.0 & 0.0 & 0.1 & 0.1 & 0.1 & 0.2 & 0.3 & 0.4 \\ 0.0 & 0.0 & 0.0 & 0.0 & 0.0 & 0.1 & 0.1 & 0.1 & 0.2 & 0.3 & 0.4 \\ 0.0 & 0.0 & 0.0 & 0.0 & 0.0 & 0.1 & 0.1 & 0.1 & 0.2 & 0.3 & 0.4 \\ 0.0 & 0.0 & 0.0 & 0.0 & 0.0 & 0.1 & 0.1 & 0.1 & 0.2 & 0.3 & 0.4 \\ 0.0 & 0.0 & 0.0 & 0.0 & 0.0 & 0.0 & 0.1 & 0.1 & 0.1 & 0.2 & 0.3 & 0.4 \\ 0.0 & 0.0 & 0.0 & 0.0 & 0.0 & 0.0 & 0.1 & 0.1 & 0.1 & 0.2 & 0.3 & 0.4 \\ 0.0 & 0.0 & 0.0 & 0.0 & 0.0 & 0.0 & 0.1 & 0.1 & 0.1 & 0.2 & 0.3 & 0.4 \\ 0.0 & 0.0 & 0.0 & 0.0 & 0.0 & 0.1 & 0.1 & 0.1 & 0.2 & 0.3 & 0.4 \\ 0.0 & 0.0 & 0.0 & 0.0 & 0.0 & 0.0 & 0.1 & 0.1 & 0.1 & 0.2 & 0.3 & 0.4 \\ 0.0 & 0.0 & 0.0 & 0.0 & 0.0 & 0.0 & 0.1 & 0.1 & 0.1 & 0.2 & 0.3 & 0.4 \\ 0.0 & 0.0$	packa comf MVOI Rado light Casto 335 0.3 0.4 0.4 0.6 0.7 1.4 1.2 2.6 1.1 1.4 0.6 0.7 0.7 1.4 1.2 2.6 1.1 1.4 0.6 0.7 0.7 1.4 1.2 2.6 1.1 1.4 0.6 0.7 0.7 1.4 1.2 2.6 1.1 1.4 0.6 0.7 0.7 1.1 0.8 1.2 0.8 1.2 0.8 1.2 0.8 1.2
10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0	G 0 0.0 0. 0 0.0 0. 0 0.0 0. 0 0.0 0. 0 0.0 0.	9 0 0.0 0.0 0.0 0.0 0 0.0 0.0 0.0 0.0	ERCO GmbH 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	Erco Castor Bollard 35748023_V02	light Casto 335 0.3 0.4 0.4 0.6 0.7 1.4 1.2 2.6 1.1 1.4 0.6 0.7 0.6 0.9 0.7 1.1 0.8 1.2 0.8 1.2 0.8 1.2 0.8 1.2 0.8 1.2 0.8 1.2
10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0	0 0.0 0.0 0 0.0 0. 0 0.0 0. 0 0.0 0. 0 0.0 0.	0 0.0 0.0 0.0 0.0 0 0.0 0.0 0.0 0.0	$ \begin{array}{ccccccccccccccccccccccccccccccccc$	35748023_V02	33.5 0.3 0.4 0.4 0.6 0.7 1.4 1.2 2.6 1.1 1.4 0.6 0.7 0.6 0.9 0.7 1.1 0.8 1.2 0.8 1.2 0.8 1.2 0.8 1.2 0.8 1.1 0.7 1.0
10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0	0 0.0 0.0 0 0.0 0. 0 0.0 0. 0 0.0 0. 0 0.0 0.	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0.3 0.4 0.4 0.6 0.7 1.4 1.2 2.6 1.1 1.4 0.6 0.7 0.6 0.9 0.7 1.1 0.8 1.2 0.8 1.2 0.8 1.2 0.8 1.1 0.7 1.0
 Therefore, this proposal SOLUTION: This proposal System either as a based on the infor SUPPLEMENT: T as well as a propo approval. ALERT: This prop However, the appl 	OR SYST al includes proposal an alterna rmation propo osed lighti posal inclu- plication lik g criteria.	REQUIRES SPE EMS PER CALIFO S: includes a complete to that specifier rovided, subject to sal includes lighting ing control system udes only lighting a kely requires complete We are happy to p	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 <td>0.4 0.6 0.4 0.5 0.3 0.4 0.3 0.4 0.2 0.3 0.2 0.3 0.2 0.3 0.2 0.3 0.2 0.3 0.2 0.3 0.2 0.3 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.0 0.1 0.0 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0</td>	0.4 0.6 0.4 0.5 0.3 0.4 0.3 0.4 0.2 0.3 0.2 0.3 0.2 0.3 0.2 0.3 0.2 0.3 0.2 0.3 0.2 0.3 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.0 0.1 0.0 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0







05.04.2022

L4.1

Appendix B

Air Quality Modeling Details

Construction

Construction Phase	ROG	NOx	со	PM ₁₀ Exhaust	PM2.5 Exhaust
2025	0.42	3.82	5.33	0.15	0.14
2026	1.23	3.27	4.91	0.12	0.11
maximum	1.23	3.82	5.33	0.15	0.14
BAAQMD Construction Threshold	54	54	N/A	82	54
Exceed Threshold?	No	No	-	No	No

Construction GH0	6
Phase	MTCO2e/yr (Average)
2023	674
2024	656
2025	441
total	1771

Operations

Emissions Source	ROG (lbs/day)	NOx (lbs/day)	CO (lbs/day)	PM _{10 Total} (lbs/day)	PM _{2.5 Total} (lbs/day)
Mobile	0.33	0.27	2.64	0.67	0.17
Area	0.55	0.01	0.81	< 0.005	< 0.005
Energy	0.00	0.00	0.00	0.00	0.00
Total Emissions	0.88	0.28	3.45	0.67	0.17
BAAQMD Emissions Threshold	54	54	N/A	82	54
Threshold Exceeded?	No	No	No	No	No

5
MTCO2e
1261
9
297
35
48
13

1663

Total

CalEEMod Construction Phase Inputs* 5-Day Work Week/8 hours per day

Adjusted Phasing			
	Default	Adjusted	
Demolition	10	4	42
Site Preparation	1		4
Grading	2		8
Excavation	0		0
Building Constructi	100	42	24
Paving	5	2	21
Arch Coating	5	2	21
Construction Start	1/1/2025		

12/31/2026 note: PD states construction will take approx. 24 months 522.00 Construction End D Total Work Days

Address	SF
1745 Bridgeway	1100
1751 Bridgeway	1650
1757 Bridgeway	1500
160 Filbert	1750
Total	6000

Land Use Subtype	CalEEMod Default NG Demand (kBTU/yr)	Conversion to kWh	CalEEMod Default kWh Demand	Total Kwh Demand
Apartment				
Mid Rise	146,004.18	42,781.35		
(Building 1)			41,506.45	84,287.80
Apartment				
Mid Rise	67,386.54	19,745.24		
(Building 2)			19,156.83	38,902.07
Enclosed				
Parking		0.00		
(Building 1)	0.00		33,613.74	33,613.74
Enclosed				
Parking		0.00		
(Building 2)	0.00		11,204.58	11,204.58
Total				156,803.60

County M City Sa Air District Ba Air Basin Sa TAZ EDFZ Electric Ut Pa Gas Utility Pa App Versio 20	oject Inforr alue rridgeway C //1/2025 2027 roject/site ounty 3.9 34.8 7.8615669 arrin ausalito ay Area AQ an Francisc 904 2 acific Gas i acific Gas 6 022.1.1.26	nation ommons 29739936, -1 MD 20 Bay Area & Electric Cor & Electric		50447326	54													
1.2. Land Use Land Use Si		Init Lot	Acreag Bu	ilding Ar I	Landscape	Special La	Populatio	n Descriptio	n									
Apartment	13 C	welling U	0.29	12480	0			. Building 1										
Apartment		welling U	0.29	5760	0		14	Building 2	F	a alala a								
Enclosed F Enclosed F		pace pace	0 0	9600 3200	0			Building 1 Building 2										
1.3. User-Sel Sector # Constructi C- Constructi C- Constructi C- Constructi C- Constructi C-	ected Emis N -10-A V -10-B V -10-C V -11 L		on Measur d Surfaces Demolition d Construc Speeds on I	es by Emi Sites ction Roa	issions Se	ctor		building 2	Eliciosed P	arking								
2. Emissions	Summary																	
2.1. Construc			-															
Un/Mit. TO		OG NO	x CC) :	SO ₂	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO ₂	NBCO ₂	CO ₂ T	CH₄	N ₂ O R	(CO ₂ e
Daily, Summe Unmit.	er (Max) 0.71	0.59	5.35	7.78	0.01	0.22	0.19	0.41	0.2	0.04	0.25		1585	1585	0.07	0.03	0.96	1598
Mit.	0.71	0.59	5.35	7.78	0.01	0.22	0.19		0.2				1585				0.96	1598
% Reduced																		
Daily, Winter	(Max)																	
Unmit.	15.1	15.1	10.1	10.3	0.02	0.46	5.37	5.84	0.43		3.01		1774				0.02	1781
Mit.	15.1	15.1	10.1	10.3	0.02	0.46	2.13		0.43				1774	1774	0.07	0.03	0.02	1781
% Reduced							60.3	55.5		60.7	52.1							
Average Daily Unmit.	(Max) 1.3	1.23	3.82	5.33	0.01	0.15	0.26	0.41	0.14	0.09	0.23		1061	1061	0.05	0.02	0.27	1069
Mit.	1.3	1.23	3.82	5.33	0.01	0.15	0.20		0.14				1061				0.27	1069
% Reduced	1.0	1120	0.02	0.00	0.01	0.10	31.3			40.6			1001	1001	0.00	0.02	0.27	1000
Annual (Max)																		
Unmit.	0.24	0.22	0.7		< 0.005	0.03	0.05						176			< 0.005	0.04	177
Mit. % Reduced	0.24	0.22	0.7	0.97	< 0.005	0.03	0.03 31.3		0.03	0.01 40.6			176	176	6 0.01	< 0.005	0.04	177
% neuuceu							31.3	19.0		40.0	15.5							
2.2. Construc	ction Emis	sions by Year,	, Unmitigat	ed														
Year TO	DG R	OG NO	x CC	о :	SO ₂	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO ₂	NBCO ₂	CO ₂ T	CH₄	N ₂ O R	(CO ₂ e
Daily - Summ																		
2025	0.71	0.59	5.35	7.78 7.69	0.01 0.01	0.22							1585				0.96 0.88	1598 1592
2026 Daily - Winter	0.67 r (Max)	0.56	5	7.69	0.01	0.19	0.19	0.38	0.18	0.04	0.22		1580	1580	0.07	0.03	0.88	1992
2025	1.32	1.11	10.1	10.3	0.02	0.46	5.37	5.84	0.43	2.58	3.01		1774	1774	0.07	0.03	0.02	1781
2026	15.1	15.1	5.02	7.62	0.01	0.19	0.19	0.38	0.18	0.04	0.22		1569	1569	0.07	0.03	0.02	1580
Average Daily		0.40	0.00	5.00	0.01	0.45	0.00	0.44		0.00	0.00		4004	4004	0.05		0.07	1000
2025 2026	0.5 1.3	0.42 1.23	3.82 3.27	5.33 4.91	0.01 0.01	0.15 0.12	0.26		0.14 0.11				1061 995				0.27 0.24	1069 1003
Annual	1.0	1120	0.27		0.01	0.12	0.11	0.24	0.11	0.00	0.1-1				0.01	0.02	0.2.1	1000
2025	0.09	0.08	0.7		< 0.005	0.03	0.05						176			< 0.005	0.04	177
2026	0.24	0.22	0.6	0.9	< 0.005	0.02	0.02	0.04	0.02	0.01	0.03		165	165	0.01	< 0.005	0.04	166
2.3. Construc	ction Emic	sions by Vocr	Mitigated															
		OG NO	-		SO₂	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO ₂	NBCO ₂	CO ₂ T	CH₄	N ₂ O R	(CO ₂ e
Daily - Summ					•							2	2	2	-			•
2025	0.71	0.59	5.35	7.78	0.01	0.22							1585				0.96	1598
2026	0.67	0.56	5	7.69	0.01	0.19	0.19	0.38	0.18	0.04	0.22		1580	1580	0.07	0.03	0.88	1592
Daily - Winter 2025	r (Max) 1.32	1.11	10.1	10.3	0.02	0.46	2.13	2.6	0.43	1.02	1.44		1774	1774	0.07	0.03	0.02	1781
2025	15.1	15.1	5.02	7.62	0.02	0.40	0.19		0.43				1569				0.02	1580
Average Daily																		
2025	0.5	0.42	3.82	5.33	0.01	0.15	0.18						1061				0.27	1069
2026	1.3	1.23	3.27	4.91	0.01	0.12	0.12	0.24	0.11	0.03	0.14		995	995	0.04	0.02	0.24	1003
Annual 2025	0.09	0.08	0.7	0.97	< 0.005	0.03	0.03	0.06	0.03	0.01	0.04		176	176	6 0.01	< 0.005	0.04	177
2026	0.24	0.22	0.6		< 0.005	0.02							165			< 0.005	0.04	166

Un/Mit. TO		ons Compare ROG NC			is SO ₂	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO ₂	NBCO ₂	CO,T	CH,	N₂O R	с	O ₂ e
Daily, Summe	er (Max)				-							-	-	-	-	•		_
Unmit. Daily, Winter (1.06 (Max)	1.01	0.27	4.64	0.01	0.01	0.71	0.72	0.01	0.18	0.19	8.57	861	870	0.91	0.03	2.63	904
Unmit.	0.85	0.81	0.31	2.87	0.01	< 0.005	0.71	0.72	< 0.005	0.18	0.19	8.57	814	823	0.91	0.03	0.2	856
Average Daily Unmit.	(Max) 0.92	0.88	0.28	3.44	0.01	0.01	0.66	0.67	< 0.005	0.17	0.17	8.57	784	792	0.91	0.03	1.16	825
Annual (Max)																		
Unmit.	0.17	0.16	0.05	0.63	< 0.005	< 0.005	0.12	0.12	< 0.005	0.03	0.03	1.42	130	131	0.15	0.01	0.19	137
2.5. Operation		-	-															
Sector TO Daily, Summe		ROG NC	Dx CC)	SO ₂	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO ₂	NBCO ₂	CO ₂ T	CH₄	N ₂ O R	C	O ₂ e
Mobile	0.4	0.37	0.26	3		< 0.005	0.71		< 0.005	0.18			760	760	0.03	0.03	2.5	771
Area	0.66 0	0.65	0.01		< 0.005	< 0.005			< 0.005		< 0.005	0	5.17			< 0.005		5.19
Energy Water	0	0	0	0	0	C	,	0	0		0	1.1	93.9 2.08	93.9 3.18		< 0.005 < 0.005		94.8 6.82
Waste												7.47	0	7.47	0.75	0		26.1
Refrig.								0.70						070			0.13	0.13
Total Daily, Winter (1.06 (Max)	1.01	0.27	4.64	0.01	0.01	. 0.71	0.72	0.01	0.18	0.19	8.57	861	870	0.91	0.03	2.63	904
Mobile	0.39	0.35	0.31	2.87	0.01	< 0.005	0.71	0.72	< 0.005	0.18	0.19		718	718	0.03	0.03	0.06	728
Area	0.46	0.46	0	0	0			0			0	0	0	0	0	0		0
Energy Water	0	0	0	0	0	C)	0	0		0	1.1	93.9 2.08			< 0.005 < 0.005		94.8 6.82
Waste												7.47	2.00	7.47	0.75	0.000		26.1
Refrig.																	0.13	0.13
Total Average Daily	0.85	0.81	0.31	2.87	0.01	< 0.005	0.71	0.72	< 0.005	0.18	0.19	8.57	814	823	0.91	0.03	0.2	856
Mobile	0.36	0.33	0.27	2.64	0.01	< 0.005	0.66	0.67	< 0.005	0.17	0.17		685	685	0.03	0.03	1.02	695
Area	0.56	0.55	0.01		< 0.005	< 0.005			< 0.005		< 0.005	0	2.55			< 0.005		2.56
Energy	0	0	0	0	0	C)	0	0		0		93.9			< 0.005 < 0.005		94.8
Water Waste												1.1 7.47	2.08 0	3.18 7.47	0.11	< 0.005 0		6.82 26.1
Refrig.																	0.13	0.13
Total	0.92	0.88	0.28	3.44	0.01	0.01	0.66	0.67	< 0.005	0.17	0.17	8.57	784	792	0.91	0.03	1.16	825
Annual Mobile	0.07	0.06	0.05	0.48	< 0.005	< 0.005	0.12	0.12	< 0.005	0.03	0.03		113	113	0.01	< 0.005	0.17	115
Area	0.1	0.1 < 0			< 0.005	< 0.005			< 0.005		< 0.005	0	0.42			< 0.005		0.42
Energy	0	0	0	0	0	C)	0	0		0		15.5			< 0.005		15.7
Water Waste												0.18 1.24	0.34 0	0.53 1.24	0.02	< 0.005 0		1.13 4.33
Refrig.																	0.02	0.02
Total	0.17	0.16	0.05	0.63	< 0.005	< 0.005	0.12	0.12	< 0.005	0.03	0.03	1.42	130	131	0.15	0.01	0.19	137
2.6. Operation	ns Emissio	ons by Sector	, Mitigated															
Sector TO Daily, Summe		ROG NC	Dx CC)	SO ₂	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO ²	NBCO ₂	CO ₂ T	CH₄	N ₂ O R	C	O ₂ e
Mobile	0.4	0.37	0.26	3	0.01	< 0.005	0.71	0.72	< 0.005	0.18	0.19		760	760	0.03	0.03	2.5	771
Area	0.66	0.65	0.01		< 0.005	< 0.005			< 0.005		< 0.005	0	5.17	5.17	< 0.005	< 0.005		5.19
Energy Water	0	0	0	0	0	C)	0	0									
Waste											0	11	93.9	93.9 3.19	0.02	< 0.005		94.8
Refrig.											0	1.1 7.47		93.9 3.18 7.47	0.02			
Total Daily, Winter (1.06										0	7.47	93.9 2.08 0	3.18 7.47	0.02 0.11 0.75	< 0.005 < 0.005	0.13	94.8 6.82 26.1 0.13
		1.01	0.27	4.64	0.01	0.01	. 0.71	0.72	0.01	0.18			93.9 2.08	3.18	0.02 0.11	< 0.005 < 0.005	0.13 2.63	94.8 6.82 26.1
Mobile		1.01 0.35	0.27	4.64 2.87		0.01	0.71		0.01 < 0.005	0.18	0.19	7.47	93.9 2.08 0	3.18 7.47 870	0.02 0.11 0.75	< 0.005 < 0.005 0		94.8 6.82 26.1 0.13
	(Max) 0.39 0.46	0.35 0.46	0.31 0	2.87 0	0.01 0	< 0.005 C	0.71	0.72 0	< 0.005 0	0.18	0.19 0.19 0	7.47	93.9 2.08 0 861 718 0	3.18 7.47 870 718 0	0.02 0.11 0.75 0.91 0.03 0	< 0.005 < 0.005 0 0.03 0.03 0	2.63	94.8 6.82 26.1 0.13 904 728 0
Mobile Area Energy	(Max) 0.39	0.35	0.31	2.87	0.01	< 0.005 C	0.71	0.72	< 0.005 0	0.18	0.19 0.19	7.47 8.57 0	93.9 2.08 0 861 718 0 93.9	3.18 7.47 870 718 0 93.9	0.02 0.11 0.75 0.91 0.03 0 0.02	< 0.005 < 0.005 0 0.03 0.03 0 < 0.005	2.63	94.8 6.82 26.1 0.13 904 728 0 94.8
Mobile Area	(Max) 0.39 0.46	0.35 0.46	0.31 0	2.87 0	0.01 0	< 0.005 C	0.71	0.72 0	< 0.005 0	0.18	0.19 0.19 0	7.47 8.57	93.9 2.08 0 861 718 0 93.9 2.08	3.18 7.47 870 718 0 93.9 3.18	0.02 0.11 0.75 0.91 0.03 0 0.02	< 0.005 < 0.005 0 0.03 0.03 0	2.63	94.8 6.82 26.1 0.13 904 728 0
Mobile Area Energy Water Waste Refrig.	(Max) 0.39 0.46 0	0.35 0.46 0	0.31 0 0	2.87 0 0	0.01 0 0	< 0.005 C	0.71	0.72 0 0	< 0.005 0 0	0.18	0.19 0.19 0 0	7.47 8.57 0 1.1 7.47	93.9 2.08 0 861 718 0 93.9 2.08 0	3.18 7.47 870 718 0 93.9 3.18 7.47	0.02 0.11 0.75 0.91 0.03 0 0.02 0.11 0.75	< 0.005 < 0.005 0.03 0.03 0 < 0.005 < 0.005 0	2.63 0.06 0.13	94.8 6.82 26.1 0.13 904 728 0 94.8 6.82 26.1 0.13
Mobile Area Energy Water Waste Refrig. Total	(Max) 0.39 0.46 0	0.35 0.46	0.31 0	2.87 0	0.01 0 0	< 0.005 C	0.71	0.72 0 0	< 0.005 0	0.18	0.19 0.19 0 0	7.47 8.57 0 1.1	93.9 2.08 0 861 718 0 93.9 2.08	3.18 7.47 870 718 0 93.9 3.18 7.47	0.02 0.11 0.75 0.91 0.03 0 0.02 0.11	< 0.005 < 0.005 0 0.03 0.03 0 < 0.003 < 0.005	2.63 0.06	94.8 6.82 26.1 0.13 904 728 0 94.8 6.82 26.1
Mobile Area Energy Water Waste Refrig. Total Average Daily	(Max) 0.39 0.46 0 0.85	0.35 0.46 0	0.31 0 0	2.87 0 0 2.87	0.01 0 0	< 0.005 0 0 0 0	0.71	0.72 0 0	< 0.005 0 0	0.18	0.19 0.19 0 0	7.47 8.57 0 1.1 7.47	93.9 2.08 0 861 718 0 93.9 2.08 0 814	3.18 7.47 870 718 0 93.9 3.18 7.47 823	0.02 0.11 0.75 0.91 0.03 0.02 0.11 0.75 0.91	< 0.005 < 0.005 0 0.03 0.03 0 < 0.005 < 0.005 0 0.03	2.63 0.06 0.13 0.2	94.8 6.82 26.1 0.13 904 728 0 94.8 6.82 26.1 0.13 856
Mobile Area Energy Water Waste Refrig. Total	(Max) 0.39 0.46 0	0.35 0.46 0	0.31 0 0	2.87 0 0 2.87 2.64	0.01 0 0	< 0.005 C	0.71	0.72 0 0 0.72 0.67	< 0.005 0 0 0	0.18	0.19 0.19 0 0	7.47 8.57 0 1.1 7.47	93.9 2.08 0 861 718 0 93.9 2.08 0	3.18 7.47 870 718 0 93.9 3.18 7.47 823 685	0.02 0.11 0.75 0.91 0.03 0 0.02 0.11 0.75 0.91 0.03	< 0.005 < 0.005 0.03 0.03 0 < 0.005 < 0.005 0	2.63 0.06 0.13	94.8 6.82 26.1 0.13 904 728 0 94.8 6.82 26.1 0.13
Mobile Area Energy Water Waste Refrig. Total Average Daily Mobile Area Energy	(Max) 0.39 0.46 0 0.85 0.85	0.35 0.46 0 0.81	0.31 0 0 0.31 0.27	2.87 0 0 2.87 2.64	0.01 0 0 0.01 0.01	< 0.005 C < 0.005 < 0.005 < 0.005	0.71	0.72 0 0 0.72 0.67	< 0.005 0 0 < 0.005 < 0.005 < 0.005	0.18 0.18 0.17	0.19 0.19 0 0 0 0.19 0.19	7.47 8.57 0 1.1 7.47 8.57 0	93.9 2.08 0 861 718 0 93.9 2.08 0 814 685 2.55 93.9	3.18 7.47 870 718 0 93.9 3.18 7.47 823 685 2.55 93.9	0.02 0.11 0.75 0.91 0.03 0 0.02 0.11 0.75 0.91 <0.03 <0.005 0.02	< 0.005 < 0.005 0 0.03 0 < 0.003 < 0.005 < 0.005 < 0.003 < 0.005 < 0.005	2.63 0.06 0.13 0.2	94.8 6.82 26.1 0.13 904 728 0 94.8 6.82 26.1 0.13 856 695 2.56 94.8
Mobile Area Energy Waste Refrig. Total Average Daily Mobile Area Energy Water	(Max) 0.39 0.46 0 0.85 0.36 0.36	0.35 0.46 0 0.81 0.33 0.55	0.31 0 0.31 0.27 0.01	2.87 0 0 2.87 2.64 0.81	0.01 0 0.01 < 0.005	< 0.005 C < 0.005 < 0.005 < 0.005	0.71	0.72 0 0.72 0.67 < 0.005	< 0.005 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.18 0.18 0.17	0.19 0.19 0 0 0.19 0.19 < 0.005	7.47 8.57 0 1.1 7.47 8.57 0 1.1	93.9 2.08 0 861 718 0 93.9 2.08 0 814 685 2.555 93.9 2.08	3.18 7.47 870 718 0 93.9 3.18 7.47 823 685 2.55 93.9 3.18	0.02 0.11 0.75 0.91 0.03 0 0.02 0.11 0.75 0.91 0.03 <0.005 0.02 0.11	< 0.005 < 0.005 0 0.03 0 < 0.003 < 0.005 < 0.005 < 0.003 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2.63 0.06 0.13 0.2	94.8 6.82 26.1 0.13 904 728 0 94.8 6.82 26.1 0.13 856 695 2.56 94.8 6.82
Mobile Area Energy Water Waste Refrig. Total Average Daily Mobile Area Energy	(Max) 0.39 0.46 0 0.85 0.36 0.36	0.35 0.46 0 0.81 0.33 0.55	0.31 0 0.31 0.27 0.01	2.87 0 0 2.87 2.64 0.81	0.01 0 0.01 < 0.005	< 0.005 C < 0.005 < 0.005 < 0.005	0.71	0.72 0 0.72 0.67 < 0.005	< 0.005 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.18 0.18 0.17	0.19 0.19 0 0 0.19 0.19 < 0.005	7.47 8.57 0 1.1 7.47 8.57 0	93.9 2.08 0 861 718 0 93.9 2.08 0 814 685 2.55 93.9	3.18 7.47 870 718 0 93.9 3.18 7.47 823 685 2.55 93.9 3.18	0.02 0.11 0.75 0.91 0.03 0 0.02 0.11 0.75 0.91 <0.03 <0.005 0.02	< 0.005 < 0.005 0 0.03 0 < 0.003 < 0.005 < 0.005 < 0.003 < 0.005 < 0.005	2.63 0.06 0.13 0.2	94.8 6.82 26.1 0.13 904 728 0 94.8 6.82 26.1 0.13 856 695 2.56 94.8
Mobile Area Energy Water Waste Refrig. Total Average Daily Mobile Area Energy Water Waste Refrig. Total	(Max) 0.39 0.46 0 0.85 0.36 0.36	0.35 0.46 0 0.81 0.33 0.55	0.31 0 0.31 0.27 0.01	2.87 0 0 2.87 2.64 0.81	0.01 0 0.01 < 0.005	< 0.005 C < 0.005 < 0.005 C	0.71	0.72 0 0.72 0.72 < 0.005 0	< 0.005 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.18 0.18 0.17	0.19 0.19 0 0 0.19 0.17 < 0.005 0	7.47 8.57 0 1.1 7.47 8.57 0 1.1	93.9 2.08 0 861 718 0 93.9 2.08 0 814 685 2.555 93.9 2.08	3.18 7.47 870 718 0 93.9 3.18 7.47 823 685 2.55 93.9 3.18 7.47	0.02 0.11 0.75 0.91 0.03 0 0.02 0.11 0.75 0.91 0.03 <0.005 0.02 0.11	< 0.005 < 0.005 0 0.03 0 < 0.003 < 0.005 < 0.005 < 0.003 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2.63 0.06 0.13 0.2 1.02	94.8 6.82 26.1 0.13 904 728 0 94.8 6.82 26.1 0.13 856 695 2.56 94.8 6.82 26.1
Mobile Area Energy Waste Refrig. Total Average Daily Mobile Area Energy Water Waste Refrig. Total Annual	(Max) 0.39 0.46 0 0.85 0.36 0.56 0 0.56 0	0.35 0.46 0 0.81 0.33 0.55 0	0.31 0 0.31 0.27 0.01 0	2.87 0 0 2.87 2.64 0.81 0 3.44	0.01 0 0.01 < 0.005 0 0.01	< 0.005 C < 0.005 < 0.005 C 0.005 C 0.01	0.71	0.72 0 0.72 0.72 < 0.005 0 0.67	< 0.005 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.18 0.18 0.17	0.19 0.19 0 0.19 0.19 0.17 < 0.005 0 0.17	7.47 8.57 0 1.1 7.47 8.57 0 1.1 7.47	93.9 2.08 0 861 718 0 93.9 2.08 0 814 685 2.55 93.9 2.08 0 784	3.18 7.47 870 718 0 93.9 3.18 7.47 823 685 2.55 93.9 3.18 7.47 792	0.02 0.11 0.75 0.91 0.03 0.02 0.11 0.75 0.91 <0.005 0.02 0.11 0.75 0.91	< 0.005 < 0.005 0 .03 0 .03 0 .03 < 0.005 < 0.005 < 0.003 < 0.03 < 0.003 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.003	2.63 0.06 0.13 0.2 1.02 0.13 1.16	94.8 6.82 26.1 904 728 0 94.8 6.82 26.1 0.13 856 695 2.56 94.8 6.82 26.1 0.13 825
Mobile Area Energy Water Waste Refrig. Total Average Daily Mobile Area Energy Water Waste Refrig. Total	(Max) 0.39 0.46 0 0.85 0.85 0.36 0.56 0	0.35 0.46 0 0.81 0.33 0.55 0	0.31 0 0.31 0.27 0.01 0 0.28 0.28	2.87 0 2.87 2.64 0.81 0 3.44 0.48	0.01 0 0.01 < 0.005 0 0.01	< 0.005 C < 0.005 < 0.005 C	0.71	0.72 0 0 0.72 < 0.05 0 0.67 0.67 0.12	< 0.005 0 0 0 0 0 0 0 0 0 0	0.18 0.18 0.17	0.19 0.19 0 0.19 0.17 < 0.005 0 0.17	7.47 8.57 0 1.1 7.47 8.57 0 1.1 7.47	93.9 2.08 0 861 718 0 93.9 2.08 0 814 685 2.55 93.9 2.08 0	3.18 7.47 870 718 0 93.9 3.18 7.47 823 685 2.55 93.9 3.18 7.47 792 113	0.02 0.11 0.75 0.91 0.03 0 0.02 0.11 0.75 0.91 0.02 0.11 0.75 0.91 0.75	< 0.005 < 0.005 0 .03 0 .03 0 .03 < 0.005 < 0.005 < 0.003 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 0 .03 0	2.63 0.06 0.13 0.2 1.02 0.13	94.8 6.82 26.1 0.13 904 728 0 94.8 6.82 26.1 0.13 856 695 2.56 94.8 6.82 26.1 0.13
Mobile Area Energy Water Waste Refrig. Total Average Daily Mobile Area Energy Water Waste Refrig. Total Annual Mobile Area Energy	(Max) 0.39 0.46 0 0 0.85 0.36 0.56 0 0.92 0.92	0.35 0.46 0 0.81 0.33 0.55 0 0.88 0.88	0.31 0 0.31 0.27 0.01 0 0.28 0.28	2.87 0 2.87 2.64 0.81 0 3.44 0.48	0.01 0 0.01 < 0.005 0 0.01 < 0.005	< 0.005 < 0.005 < 0.005 < 0.005 c 0.01 < 0.005 < 0.005	0.71 0.71 0.66 0.12	0.72 0 0 0.72 0.67 < 0.005 0 0.67 0.67	< 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005	0.18 0.18 0.17 0.17	0.19 0.19 0 0.19 0.19 0.17 < 0.005 0 0.17 0.03	7.47 8.57 0 1.11 7.47 8.57 0 1.11 7.47 8.57 0	93.9 2.08 0 861 718 0 93.9 2.08 0 814 685 2.55 93.9 2.08 0 784 113 0.42 15.5	3.18 7.47 870 718 0 93.9 3.18 7.47 823 685 2.55 93.9 3.18 7.47 792 113 0.42 15.5	0.02 0.11 0.75 0.91 0.03 0 0.02 0.11 0.75 0.91 0.03 <0.005 0.02 0.11 0.75 0.91 0.75 0.91 0.75 0.91 0.75	< 0.005 < 0.005 0 0.03 0 < 0.03 < 0.03 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005	2.63 0.06 0.13 0.2 1.02 0.13 1.16	94.8 6.82 26.1 0.13 904 728 0 94.8 6.82 26.1 0.13 856 695 2.56 94.8 6.82 26.1 0.13 825 115 0.42 115
Mobile Area Energy Water Waste Area Average Daily Mobile Area Energy Water Waste Refrig. Total Annual Mobile Area Energy Water	(Max) 0.39 0.46 0 0 0.85 0.36 0.56 0 0 0.92 0.92 0.07 0.1	0.35 0.46 0 0.81 0.33 0.55 0 0.88 0.88 0.06 0.1 < 0	0.31 0 0.31 0.27 0.01 0 0.28 0.05	2.87 0 2.87 2.64 0.81 0 3.44 0.48 0.15	0.01 0 0.01 < 0.005 0.01 < 0.005 < 0.005	< 0.005 < 0.005 < 0.005 < 0.005 c 0.01 < 0.005 < 0.005	0.71 0.71 0.66 0.12	0.72 0 0.72 0.67 < 0.005 0 0.67 0.12 < 0.005	< 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005	0.18 0.18 0.17 0.17	0.19 0.19 0 0.19 0.17 < 0.005 0 0.17 0.03 < 0.005	7.47 8.57 0 1.1 7.47 8.57 0 1.1 7.47 8.57 0 0	93.9 2.08 0 861 718 0 93.9 2.08 0 814 685 2.55 93.9 2.08 0 784 113 0.42 15.5 0.34	3.18 7.47 870 718 0 93.9 3.18 7.47 823 685 2.55 93.9 3.18 7.47 792 113 0.42 15.5 5.0.53	0.02 0.11 0.75 0.91 0.03 0 0.02 0.11 0.75 0.91 0.03 <0.005 0.02 0.11 0.75 0.91 0.75 0.91 0.75	< 0.005 < 0.005 0 0.03 0 0.03 0 0 < 0.005 < 0.005	2.63 0.06 0.13 0.2 1.02 0.13 1.16	94.8 6.82 26.1 0.13 904 728 0 94.8 6.82 26.1 0.13 856 695 2.56 94.8 6.82 26.1 0.13 825 115 0.42 15.7 1.13
Mobile Area Energy Water Waste Refrig. Total Average Daily Mobile Area Energy Water Waste Refrig. Total Annual Mobile Area Energy	(Max) 0.39 0.46 0 0 0.85 0.36 0.56 0 0 0.92 0.92 0.07 0.1	0.35 0.46 0 0.81 0.33 0.55 0 0.88 0.88 0.06 0.1 < 0	0.31 0 0.31 0.27 0.01 0 0.28 0.05	2.87 0 2.87 2.64 0.81 0 3.44 0.48 0.15	0.01 0 0.01 < 0.005 0.01 < 0.005 < 0.005	< 0.005 < 0.005 < 0.005 < 0.005 c 0.01 < 0.005 < 0.005	0.71 0.71 0.66 0.12	0.72 0 0.72 0.67 < 0.005 0 0.67 0.12 < 0.005	< 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005	0.18 0.18 0.17 0.17	0.19 0.19 0 0.19 0.17 < 0.005 0 0.17 0.03 < 0.005	7.47 8.57 0 1.11 7.47 8.57 0 1.11 7.47 8.57 0	93.9 2.08 0 861 718 0 93.9 2.08 0 814 685 2.55 93.9 2.08 0 784 113 0.42 15.5	3.18 7.47 870 718 0 93.9 3.18 7.47 823 685 2.55 93.9 3.18 7.47 792 113 0.42 15.5 5.0.53	0.02 0.11 0.75 0.91 0.03 0 0.02 0.11 0.75 0.91 0.03 <0.005 0.02 0.11 0.75 0.91 0.75 0.91 0.75 0.91 0.75	< 0.005 < 0.005 0 0.03 0 < 0.03 < 0.03 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005	2.63 0.06 0.13 0.2 1.02 0.13 1.16	94.8 6.82 26.1 0.13 904 728 0 94.8 6.82 26.1 0.13 856 695 2.56 94.8 6.82 26.1 0.13 825 115 0.42 115
Mobile Area Energy Water Water Total Average Daily Mobile Area Energy Water Refrig. Total Annual Mobile Area Energy Water Water	(Max) 0.39 0.46 0 0 0.85 0.36 0.56 0 0 0.92 0.92 0.07 0.1	0.35 0.46 0 0.81 0.33 0.55 0 0.88 0.88 0.06 0.1 < 0	0.31 0 0.31 0.27 0.01 0 0.28 0.05	2.87 0 0 2.87 2.64 0.81 0 3.44 0.48 0.15 0	0.01 0 0.01 < 0.005 0.01 < 0.005 < 0.005 < 0.005	< 0.005 < 0.005 < 0.005 < 0.005 c 0.01 < 0.005 < 0.005	0.71 0.71 0.66 0.12	0.72 0 0.72 0.67 < 0.005 0 0.67 0.12 < 0.005 0	< 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005	0.18 0.18 0.17 0.17	0.19 0.19 0 0.19 0.17 < 0.005 0 0.17 0.03 < 0.005 0	7.47 8.57 0 1.1 7.47 8.57 0 1.1 7.47 8.57 0 0	93.9 2.08 0 861 718 0 93.9 2.08 0 814 685 2.55 93.9 2.08 0 784 113 0.42 15.5 0.34	3.18 7.47 870 718 0 93.9 3.18 7.47 823 685 2.55 93.9 3.18 7.47 792 113 0.42 15.5 0.53 1.24	0.02 0.11 0.75 0.91 0.03 0 0.02 0.11 0.75 0.91 0.03 <0.005 0.02 0.11 0.75 0.91 0.75 0.91 0.75	< 0.005 < 0.005 0 0.03 0 0.03 0 0 < 0.005 < 0.005	2.63 0.06 0.13 0.2 1.02 0.13 1.16 0.17	94.8 6.82 26.1 0.13 904 728 0 94.8 6.82 26.1 0.13 856 94.8 6.82 26.1 0.13 825 115 0.42 15.7 1.13 4.33
Mobile Area Energy Water Waste Refrig. Total Average Daily Mobile Area Energy Water Waste Refrig. Total Annual Mobile Area Energy Water Waste Refrig.	(Max) 0.39 0.46 0 0.85 0.36 0.56 0 0.92 0.92 0.07 0.1 0 0.17 0.17 0.17	0.35 0.46 0 0.81 0.33 0.55 0 0.88 0.06 0.1 < 0 0 0.16 0.16	0.31 0 0.31 0.27 0.01 0 0.28 0.05 0 0.05 0 0.05	2.87 0 0 2.87 2.64 0.81 0 3.44 0.48 0.15 0	0.01 0 0.01 < 0.005 0.01 < 0.005 < 0.005 < 0.005	< 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005	0.71 0.71 0.66 0.12	0.72 0 0.72 0.67 < 0.005 0 0.67 0.12 < 0.005 0	< 0.005 < 0	0.18 0.18 0.17 0.17 0.03	0.19 0.19 0 0.19 0.17 < 0.005 0 0.17 0.03 < 0.005 0	7.47 8.57 0 1.1 7.47 8.57 0 1.1 7.47 8.57 0 0.18 1.24	93.9 2.08 0 861 718 0 93.9 2.08 0 814 685 2.55 93.9 2.08 0 784 113 0.42 15.5 0.34 0	3.18 7.47 870 718 0 93.9 3.18 7.47 823 685 2.55 93.9 3.18 7.47 792 113 0.42 15.5 0.53 1.24	0.02 0.11 0.75 0.91 0.03 0 0.02 0.11 0.75 0.91 0.03 <0.005 0.02 0.11 0.75 0.91 <0.005 <0.005 <0.005 0.02 0.12	< 0.005 < 0.005 0 0.03 0 < 0.005 < 0.0	2.63 0.06 0.13 0.2 1.02 0.13 1.16 0.17	94.8 6.82 26.1 0.13 904 728 0 94.8 6.82 26.1 0.13 856 94.8 6.82 26.1 0.13 825 115 0.42 15.7 1.13 825
Mobile Area Energy Water Water Total Average Daily Mobile Area Energy Water Waste Refrig. Total Annual Mobile Area Energy Water Waste Refrig. Total Anual Mobile Area Energy Water Refrig. Total Anual Mobile Area Energy Mobile Area Energy Mobile Annual Mobile Area Energy Water Waste Refrig. Total Annual Mobile Annual Mobile Annual Mobile Annual Mobile Annual Mobile Annual Mobile Annual Mobile Annual Mobile Annual Mobile Annual Mobile Annual Mobile Annual Mobile Annual Mobile Annual Annual Mobile Annual Mobile Annual Mobile Annual Annual Mobile Annual Mobile Annual Mobile Annual Mobile Annual Mobile Annual Annual Mobile Annuala	(Max) 0.39 0.46 0 0.85 0.36 0.56 0 0.92 0.92 0.92 0.07 0.1 0 0.17 0.17	0.35 0.46 0 0.81 0.33 0.55 0 0.88 0.06 0.1 < 0 0 0.16 0.16	0.31 0 0.31 0.27 0.01 0 0.28 0.05 0.05 0 0.05	2.87 0 2.87 2.64 0.81 0 3.44 0.48 0.15 0	0.01 0 0.01 < 0.005 0.01 < 0.005 < 0.005 < 0.005	< 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005	0.71 0.71 0.66 0.12	0.72 0 0.72 0.67 < 0.005 0 0.67 0.12 < 0.005 0	< 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005	0.18 0.18 0.17 0.17 0.03	0.19 0.19 0 0.19 0.17 < 0.005 0 0.17 0.03 < 0.005 0 0.03	7.47 8.57 0 1.1 7.47 8.57 0 1.1 7.47 8.57 0 0.18 1.24	93.9 2.08 0 861 718 0 93.9 2.08 0 814 685 2.55 93.9 2.08 0 784 113 0.42 15.5 0.34 0	3.18 7.47 870 718 0 93.9 3.18 7.47 823 685 2.55 93.9 3.18 7.47 792 113 0.42 15.5 0.53 1.24	0.02 0.11 0.75 0.91 0.03 0.02 0.11 0.75 0.91 0.03 < 0.005 0.02 0.11 0.75 0.91 0.02 0.11 0.75 0.91 0.03 < 0.005 0.02 0.12 0.15	< 0.005 < 0.005 0 0.03 0 < 0.005 < 0.0	2.63 0.06 0.13 0.2 1.02 0.13 1.16 0.17 0.02 0.19	94.8 6.82 26.1 0.13 904 728 0 94.8 6.82 26.1 0.13 856 94.8 6.82 26.1 0.13 825 115 0.42 15.7 1.13 825

Daily, Summer (Max) Daily, Winter (Max)

Off-Road E 0.56 0.47 4.33 5.65 0.01 0.16 0.16 0.14 0.14 852 852 0.03 0.01 Demolition 0.15 0.15 0.15 0.02 0.02 0.00 0<	0	855
Onsite truc 0 <th< td=""><td>0</td><td></td></th<>	0	
Average Daily Off-Road E 0.06 0.05 0.5 0.65 < 0.005 0.02 0.02 0.02 0.02 0.02 0.02 0.005	U	
Off-Road E 0.06 0.05 0.05 0.65 < 0.005 0.02 0.02 0.02 0.02 0.02 0.005 98.1 98.1 0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <		
Demolition 0.02 0.02 < 0.005 < 0.005 < 0.005 Onsite truc 0 <td></td> <td></td>		
Onsite truc 0 <th< td=""><td></td><td>98.4</td></th<>		98.4
Annual Off-Road E 0.01 0.01 0.09 0.12 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 Demolítion < 0.005 < 0.005 < 0.005 < 0.005 < 0.005	0	0
Off-Road E 0.01 0.09 0.12 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005	0	0
Demolition < 0.005 < 0.005 < 0.005 < 0.005		16.3
		10.0
	0	0
Offsite	0	0
Daily, Summer (Max)		
Daily, Winter (Max)		
Worker 0.04 0.03 0.03 0.35 0 0 0.08 0.08 0 0.02 0.02 80.4 80.4 <0.005 < 0.005	0.01	81.5
	0.01	0
Hauling 0.02 < 0.005 0.19 0.1 < 0.005 < 0.005 0.03 0.03 < 0.005 0.01 0.01 122 122 0.02 0.02	0.01	128
Average Daily	0.01	120
Worker < 0.005 < 0.005 < 0.005 0.04 0 0 0.01 0.01 0 < 0.005 < 0.005 9.29 9.29 < 0.005 < 0.005	0.02	9.43
Vendor 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0	0
Hauling < 0.005 < 0.005 0.02 0.01 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 14 14 < 0.005 < 0.005	0.01	14.7
Annual	0.01	
	< 0.005	1.56
Vendor 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0	0
	< 0.005	2.44
	• 0.000	2.44
3.2. Demolition (2025) - Mitigated		
	R CO	O ₂ e
	00	~ 2-
Daily, Summer (Max)		
Daity, Winter (Max)		
Dany, winite (Pax) Off-Road E 0.56 0.47 4.33 5.65 0.01 0.16 0.16 0.14 0.14 852 852 0.03 0.01		855
Demolition 0.1 0.1 0.1 0.01 0.01 0.01 0.01 0.01 0		500
Onsite true 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0	0
Average Daily	0	0
0fr-Road 0.06 0.05 0.5 0.65 < 0.005 0.02 0.02 0.02 0.02 98.1 98.1 < 0.005 < 0.005		98.4
Demolition 0.01 0.02 0.02 0.02 0.02 0.02 0.005 0.005 0.005 0.005		30.4
	0	0
Annual	0	0
0fHR0adE 0.01 0.01 0.09 0.12 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 16.2 16.2 < 0.005 < 0.005		16.3
Demolition <0.005 <0.005 <0.005 <0.005 <0.005		10.0
	0	0
Offsite	0	0
Daily, Summer (Max)		
Daity, Winter (Max)		
Dency, Millet (Fiox) Worker 0.04 0.03 0.03 0.35 0 0 0.08 0.08 0 0.02 0.02 80.4 80.4 <0.005 <0.005	0.01	81.5
Worker 0.04 0.05 0.05 0	0.01	01.5
Hauting 0.02 < 0.005 0.19 0.1 < 0.005 < 0.005 0.03 0.03 < 0.005 0.01 0.01 122 122 0.02 0.02	0.01	128
Average Daily	0.01	120
Worker < 0.005 < 0.005 < 0.005 0.04 0 0 0.01 0.01 0 < 0.005 < 0.005 9.29 9.29 < 0.005 < 0.005	0.02	9.43
Vendor 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.02	0
Hauling < 0.005 < 0.005 0.02 0.01 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 14 14 < 0.005 < 0.005	0.01	14.7
	0.01	
	< 0.005	1.56
Vendor 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0	0
	< 0.005	2.44
	0.000	2
3.3. Site Preparation (2025) - Unmitigated		
	R CO	O ₂ e
		- 2-
Onsite Daily, Summer (Max)		
Jany, Johnner (risk) Daily, Winter (Max)		
Densy white (reax) Off-Road E 0.56 0.47 4.16 5.57 0.01 0.21 0.21 0.2 0.2 859 859 0.03 0.01		862
Dust From Material Movement 0.53 0.53 0.06 0.06		
	0	0
Average Daily	-	
0fH-Road 0.01 0.01 0.05 0.06 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 9.41 9.41 < 0.005 < 0.005		9.45
Dust Form Material Movement 0.01 0.01 < 0.005 0.005 0.005		
	0	0
Annual	-	
0/fr-Road E < 0.005 < 0.005 0.01 0.01 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005		1.56
Dust From Material Movement < 0.005 < 0.005 < 0.005 < 0.005 < 0.005		
	0	0
Offsite	÷	-
Daily, Summer (Max)		
Daity, Winter (Max)		
	< 0.005	40.8
	0	0
	0	0
Average Daily	-	
	< 0.005	0.45
Vendor 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0	0
Hauting 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0	0
Annual	-	
	< 0.005	0.07
Vendor 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0	0
Hauling 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0	0
	Ŭ	-

3.4. Site Preparation (2025) - Mitigated	
Location TOG ROG NOX CO SO ₂ PM10E PM10D PM10T PM2.5E PM2.5D PM2.5T BCO ₂ Onsite	$NBCO_2 CO_2T CH_4 N_2O R CO_2e$
Daily, Summer (Max)	
Daily, Winter (Max)	
Off-Road E 0.56 0.47 4.16 5.57 0.01 0.21 0.21 0.2 0.2	859 859 0.03 0.01 862
Dust From Material Movement 0.21 0.21 0.02 0.02	
Onsite truc 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0
Average Daily Off-Road E 0.01 0.05 0.06 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005	9.41 9.41 < 0.005 < 0.005 9.45
Off-Road E 0.01 0.05 0.06 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 Dust From Material Movement < 0.005	9.41 9.41 < 0.005 < 0.005 9.45
Onsite true 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0
Annual	
Off-Road E < 0.005 < 0.005 0.01 0.01 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005	1.56 1.56 < 0.005 < 0.005 1.56
Dust From Material Movement < 0.005 < 0.005 < 0.005 < 0.005	
Onsite truc 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0
Offsite Daily, Summar (Max)	
Daily, Summer (Max) Daily, Winter (Max)	
Worker 0.02 0.02 0.02 0.18 0 0 0.04 0.04 0 0.01 0.01	40.2 40.2 < 0.005 < 0.005 < 0.005 40.8
Vendor 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0
Hauling 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0
Average Daily	
Worker < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 <th< td=""><td>0.44 0.44 < 0.005 < 0.005 < 0.005 0.45</td></th<>	0.44 0.44 < 0.005 < 0.005 < 0.005 0.45
Vendor 0 <td>0 0 0 0 0 0 0 0 0 0</td>	0 0 0 0 0 0 0 0 0 0
Annual	
Worker < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 <th< td=""><td>0.07 0.07 < 0.005 < 0.005 < 0.005 0.07</td></th<>	0.07 0.07 < 0.005 < 0.005 < 0.005 0.07
Vendor 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0
Hauling 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0
3.5. Grading (2025) - Unmitigated Location TOG ROG NOX CO SO ₂ PM10E PM10D PM10T PM2.5E PM2.5D PM2.5T BCO ₂	NBCO ₂ CO ₂ T CH ₄ N ₂ O R CO ₂ e
100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100	$NBCO_2 CO_2T CH_4 N_2O R CO_2e$
Daily, Summer (Max)	
Daily, Winter (Max)	
Off-Road E 1.29 1.09 10.1 10 0.02 0.46 0.46 0.43 0.43	1714 1714 0.07 0.01 1720
Dust From Material Movement 5.31 5.31 2.57 2.57	
Onsite true 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0
Average Daily Off-Road E 0.03 0.02 0.22 0.22 < 0.005 0.01 0.01 0.01 0.01	37.6 37.6 < 0.005 < 0.005 37.7
Dust From Material Movement 0.12 0.12 0.01 0.01	37.0 37.0 0.003 0.003 37.7
Onsite truc 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0
Annual	
Aminuat	
Off-Road E 0.01 < 0.005 0.04 0.04 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005	6.22 6.22 < 0.005 < 0.005 6.24
Off-Road E 0.01 < 0.005 0.04 0.04 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005	
Off-Road E 0.01 < 0.005 0.04 0.04 < 0.005 < 0.005 < 0.005 < 0.005 Dust From Material Movement 0.02 0.02 0.01 0.01 Onsite true 0 0 0 0 0 0 0 0	6.22 6.22 < 0.005 < 0.005
Off-Road E 0.01 < 0.005 0.04 0.04 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005	
Off-Road E 0.01 < 0.005 0.04 0.04 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005	
Off-Road E 0.01 < 0.005 0.04 0.04 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005	
Off-Road E 0.01 < 0.005 0.04 0.04 < 0.005 < 0.005 < 0.005 < 0.005 Dust From Material Movement 0 0 0 0.02 0.01 0.01 Onsite truc 0 0 0 0 0 0 0 0 0 Daity, Summer (Max) Daity, Winter (Max) 0.02 0.01 0.01 0.01 Vendor 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 60.3 60.3 < 0.005 < 0.005 0.01 61.1 0 0 0 0 0 0 0
Off-Road E 0.01 < 0.005 0.04 0.04 < 0.005 < 0.005 < 0.005 < 0.005 Dust From Material Movement 0.02 0.02 0.01 0.01 Onsite truc 0 <td>0 0 0 0 0 0 60.3 60.3 < 0.005 < 0.005 0.01 61.1</td>	0 0 0 0 0 0 60.3 60.3 < 0.005 < 0.005 0.01 61.1
Off-Road E 0.01 < 0.005 0.04 0.04 < 0.005 < 0.005 < 0.005 < 0.005 Dust From Material Movement 0	0 0 0 0 0 0 60.3 60.3 < 0.005
Off-Road E 0.01 < 0.005 0.04 0.04 < 0.005 < 0.005 < 0.005 < 0.005 Dust From Material Movement 0 <	0 0
Off-Road E 0.01 < 0.005 0.04 0.04 < 0.005 < 0.005 < 0.005 < 0.005 Dust From Material Movement 0	0 0 0 0 0 0 60.3 60.3 < 0.005
Off-Road E 0.01 < 0.005 0.04 0.04 < 0.005 < 0.005 < 0.005 < 0.005 Dust From Material Movement 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Off-Road E 0.01 < 0.005 0.04 0.04 < 0.005 < 0.005 < 0.005 < 0.005 Dust From Material Movement 0 <	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Off-Road E 0.01 < 0.005 0.04 0.04 < 0.005 < 0.005 < 0.005 < 0.005 Dust From Material Movement 0 <	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Off-Road E 0.01 < 0.005 0.04 0.04 < 0.005 < 0.005 < 0.005 < 0.005 Dust From Material Movement 0 <	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Off-Road E 0.01 < 0.005	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Off-Road E 0.01 < 0.005	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Off-Road E 0.01 < 0.005	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Off-Road E 0.01 < 0.005	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
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Off-Road E 0.01 < 0.005	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
Off-Road E 0.01 < 0.005	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Off-Road E 0.01 < 0.005	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
Off-Road E 0.01 < 0.005	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$

Vendor 0 0 0 Hauling 0 0 0	0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0
Annual Worker < 0.005 < 0.005 < 0.005 < 0.0	005 0	0 < 0.005 < 0.005	0 < 0.005 < 0.005	0.22 0.22 < 0.005 < 0.005 < 0.005 0.22
Vendor000Hauling000		0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0
3.7. Building Construction (2025) - Unmitigated Location TOG ROG NOX CO Onsite	SO ₂ PM10E	PM10D PM10T PM	2.5E PM2.5D PM2.5T BCO ₂	NBCO ₂ CO ₂ T CH ₄ N ₂ O R CO ₂ e
Daily, Summer (Max) Off-Road E 0.62 0.52 5.14	6.94 0.01 0.2		0.2 0.2	1305 1305 0.05 0.01 1309
Onsite truc 0 0 0 Daily, Winter (Max) 0.62 0.52 5.14	0 0 0 6.94 0.01 0.2	0 0 0 2 0.22	0 0 0	0 0 0 0 0 0 1305 1305 0.05 0.01 1309
Onsite truc 0 0 0 Average Daily	0 0	0 0 0	0 0 0	0 0 0 0 0
Off-Road E 0.35 0.29 2.91 Onsite truc 0 0 0 Annual	3.92 0.01 0.1 0 0		0.11 0.11 0 0 0	738 738 0.03 0.01 740 0 0 0 0 0 0
Off-Road E 0.06 0.05 0.53 Onsite truc 0 0 0 Offsite 0 0 0	0.72 < 0.005 0.02 0 0	2 0.02 D 0 0	0.02 0.02 0 0 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Daily, Summer (Max) Worker 0.07 0.07 0.05	0.74 0	0 0.16 0.16	0 0.04 0.04	164 164 < 0.005 0.01 0.67 167
Vendor 0.02 < 0.005 0.17	0.1 < 0.005 < 0.005	0.03 0.03 < 0		116 116 0.01 0.02 0.3 122
Hauling 0 0 0 Daily, Winter (Max)	0 0	0 0	0 0 0	0 0 0 0 0 0
Worker 0.07 0.07 0.06	0.67 0	0 0.16 0.16	0 0.04 0.04	153 153 < 0.005 0.01 0.02 155
Vendor 0.01 < 0.005 0.17	0.1 < 0.005 < 0.005	0.03 0.03 < 0		116 116 0.01 0.02 0.01 121
Hauling 0 0 0 Average Daily	0 0	0 0	0 0 0	0 0 0 0 0
Worker 0.04 0.04 0.03	0.37 0		0 0.02 0.02	87 87 < 0.005 < 0.005 0.16 88.3
Vendor 0.01 < 0.005 0.1 Hauling 0 0 0	0.05 < 0.005 < 0.005 0 0	0.02 0.02 < 0 0 0 0	.005 < 0.005 0.01 0 0 0	65.7 65.7 0.01 0.01 0.07 68.6 0 0 0 0 0 0 0
Annual	0 0	5 0 0	0 0 0	
Worker 0.01 0.01 0.01	0.07 0		0 < 0.005 < 0.005	14.4 14.4 < 0.005 < 0.005 0.03 14.6
Vendor < 0.005 < 0.005 0.02 Hauling 0 0 0	0.01 < 0.005 < 0.005	<0.005 < 0.005 < 0 0 0 0	.005 < 0.005 < 0.005 0 0 0	10.9 10.9 < 0.005 < 0.005 0.01 11.4 0 0 0 0 0 0 0 0
3.8. Building Construction (2025) - Mitigated Location TOG ROG NOX CO	SO ₂ PM10E	PM10D PM10T PM	2.5E PM2.5D PM2.5T BCO,	NBCO ₂ CO ₂ T CH ₄ N ₂ O R CO ₂ e
Onsite Daily, Summer (Max)	*		*	
Off-Road E 0.62 0.52 5.14 Onsite truc 0 0 0 Daily, Winter (Max) 0 0 0	6.94 0.01 0.2 0 0	2 0.22 0 0 0	0.2 0.2 0 0 0	1305 1305 0.05 0.01 1309 0 0 0 0 0 0
Off-Road E 0.62 0.52 5.14 Onsite true 0 0 0	6.94 0.01 0.2 0 0		0.2 0.2 0 0 0	1305 1305 0.05 0.01 1309 0 0 0 0 0 0
Average Daily Off-Road E 0.35 0.29 2.91	3.92 0.01 0.1	2 0.12	0.11 0.11	738 738 0.03 0.01 740
Onsite truc 0 0 0	0 0	0 0	0 0 0	0 0 0 0 0
Annual Off-Road E 0.06 0.05 0.53	0.72 < 0.005 0.02	2 0.02	0.02 0.02	122 122 < 0.005 < 0.005 123
Onsite truc 0 0 0 Offsite Daily, Summer (Max)		0 0 0	0 0 0	
Worker 0.07 0.07 0.05	0.74 0	0 0.16 0.16	0 0.04 0.04	164 164 < 0.005 0.01 0.67 167
Vendor 0.02 < 0.005 0.17	0.1 < 0.005 < 0.005	0.03 0.03 < 0		116 116 0.01 0.02 0.3 122
Hauling 0 0 0 Daily, Winter (Max)	0 0	0 0	0 0 0	0 0 0 0 0 0
Worker 0.07 0.07 0.06		0 0.16 0.16	0 0.04 0.04	153 153 < 0.005 0.01 0.02 155
Vendor 0.01 < 0.005 0.17 Hauling 0 0 0	0.1 < 0.005 < 0.005 0 0	0.03 0.03 < 0 0 0 0	.005 0.01 0.01 0 0 0	116 116 0.01 0.02 0.01 121 0 0 0 0 0 0 0
Average Daily	0 0	5 0 0	0 0 0	
Worker 0.04 0.04 0.03		0.09 0.09	0 0.02 0.02	87 87 < 0.005 < 0.005 0.16 88.3
Vendor 0.01 < 0.005 0.1 Hauling 0 0 0 Annual	0.05 < 0.005 < 0.005 0 0	0.02 0.02 < 0 0 0 0	.005 < 0.005 0.01 0 0 0	65.7 65.7 0.01 0.01 0.07 68.6 0 0 0 0 0 0 0
Worker 0.01 0.01 0.01		0 0.02 0.02	0 < 0.005 < 0.005	14.4 14.4 < 0.005 < 0.005 0.03 14.6
Vendor < 0.005 < 0.005 0.02 Hauling 0 0 0	0.01 < 0.005 < 0.005 0 0	<0.005 <0.005 <0 0 0 0	.005 < 0.005 < 0.005 0 0 0 0	10.9 10.9 < 0.005 < 0.005 0.01 11.4 0 0 0 0 0 0 0
3.9. Building Construction (2026) - Unmitigated Location TOG ROG NOX CO Onsite	SO ₂ PM10E	PM10D PM10T PM	2.5E PM2.5D PM2.5T BCO ₂	NBCO ₂ CO ₂ T CH ₄ N ₂ O R CO ₂ e
Daily, Summer (Max) Off-Road E 0.59 0.49 4.81	6.91 0.01 0.1		0.17 0.17	1304 1304 0.05 0.01 1309
Onsite truc 0 0 0 Daily, Winter (Max) Off-Road E 0.59 0.49 4.81	0 0 6.91 0.01 0.1		0 0 0	0 0 0 0 0 0 0 1304 1304 0.05 0.01 1309
Onsite truc 0 0 0	0 0		0 0 0	0 0 0 0 0 0
Average Daily	4.00			
Off-Road E 0.35 0.29 2.85 Onsite truc 0 0 0 Annual 0 0 0	4.09 0.01 0.1 0 0	1 0.11 D 0 0	0.1 0.1 0 0 0	773 773 0.03 0.01 776 0 0 0 0 0 0

nsite truc 0																
ffsite	0	0	0	0	0	0	0	0	0	0	0	0	0) 0	0	
aily, Summer (Max)																
/orker 0.07	0.07	0.04	0.7	0	0	0.16	0.16	0	0.04	0.04	161	161	< 0.005	0.01	0.61	
endor 0.01	< 0.005	0.16	0.09	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	114	114	0.01	L 0.02	0.27	
uling 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 (0	
aily, Winter (Max)																
	0.00	0.05	0.00	0	0	0.10	0.10	•	0.04	0.04	150	150	< 0.005	0.01	0.00	
orker 0.07		0.05	0.62	0	0		0.16	0	0.04		150			0.01	0.02	
	< 0.005	0.16			< 0.005	0.03		< 0.005	0.01	0.01	114	114	0.01		0.01	
uling 0	0	0	0	0	0	0	0	0	0	0	0	0	0) 0	0	
erage Daily																
orker 0.04	0.03	0.03	0.36	0	0	0.09	0.09	0	0.02	0.02	89.5	89.5	< 0.005	< 0.005	0.16	9
	< 0.005	0.1		< 0.005	< 0.005	0.02		< 0.005	< 0.005	0.01	67.6	67.6	0.01	1 0.01	0.07	7
uling 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 0	0	
nual																
orker 0.01	0.01	0.01	0.06	0	0	0.02	0.02	0	< 0.005	< 0.005	14.8	14.8	< 0.005	< 0.005	0.03	1
ndor < 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	11.2	11.2	< 0.005	< 0.005	0.01	1
ouling 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 (0	
uning v	•	Ū	•	Ŭ		Ũ	Ŭ	Ũ	Ŭ	0	Ū	Ŭ			Ũ	
10. Building Constru cation TOG site		6) - Mitigated NOx CO	D S	SO ₂	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO ₂ NBCO ₂	CO ₂ T	CH₄	N ₂ O F	R (CO2e
ily, Summer (Max)																
	0.40	4.01	6.01	0.04	0.10		0.10	0.47		0.17	4004	1004	0.05	. 0.01		
-Road E 0.59		4.81	6.91	0.01	0.19		0.19	0.17		0.17	1304	1304	0.05			1
site truc 0	0	0	0	0	0	0	0	0	0	0	0	0	0) 0	0	
ly, Winter (Max)																
Road E 0.59	0.49	4.81	6.91	0.01	0.19		0.19	0.17		0.17	1304	1304	0.05	5 0.01		1
site truc 0		0	0	0	0	0	0	0	0		0	0	0		0	
	0	U	U	J	0	J	J	0	0	0	0	J	U		U	
rage Daily	-			-												
Road E 0.35		2.85	4.09	0.01	0.11		0.11	0.1		0.1	773	773	0.03			
ite truc 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 0	0	
ual																
Road E 0.06	0.05	0.52	0 75 -	< 0.005	0.02		0.02	0.02		0.02	128	128	0.01	L < 0.005		
		0.52	0.75 •	0.005	0.02		0.02	0.02	0		128	128	0.01		0	
	0	0	0	0	0	0	0	0	0	0	0	0	U) 0	0	
ite																
/, Summer (Max)																
ker 0.07	0.07	0.04	0.7	0	0	0.16	0.16	0	0.04	0.04	161	161	< 0.005	0.01	0.61	
dor 0.01	< 0.005	0.16	0.09	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	114	114	0.01	0.02	0.27	
		0	0.00	0.000			0.00				0	0	0.01		0.27	
0	0	0	0	0	0	0	0	0	0	0	0	0	U	0	0	
y, Winter (Max)																
ker 0.07	0.06	0.05	0.62	0	0	0.16	0.16	0	0.04	0.04	150	150	< 0.005	0.01	0.02	
dor 0.01	< 0.005	0.16	0.09	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	114	114	0.01	0.02	0.01	
		0.10	0.00	0	0			0	0.01			0	0.01		0.01	
•	0	0	U	0	0	0	0	0	0	0	0	0	U	J U	U	
age Daily																
ker 0.04	0.03	0.03	0.36	0	0	0.09	0.09	0	0.02	0.02	89.5	89.5	< 0.005	< 0.005	0.16	
dor 0.01	< 0.005	0.1	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	67.6	67.6	0.01	L 0.01	0.07	
		0	0.00													
ling 0	0			0	0	0	0	0	0	0	0	0	0) 0	0	
ual		Ŭ	0													
kor 0.04																
ker 0.01	0.01	0.01	0.06	0	0	0.02	0.02	0	< 0.005	< 0.005	14.8	14.8	< 0.005	< 0.005	0.03	
	0.01 < 0.005		0.06		0 < 0.005			0 < 0.005	< 0.005 < 0.005	< 0.005 < 0.005	14.8 11.2		< 0.005 < 0.005	< 0.005 < 0.005	0.03 0.01	
dor < 0.005	< 0.005	0.01 0.02	0.06 0.01 ·	0 < 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	11.2	11.2	< 0.005	< 0.005	0.01	
dor < 0.005	< 0.005	0.01	0.06	0		< 0.005				< 0.005				< 0.005		
dor < 0.005 ling 0	< 0.005 0	0.01 0.02	0.06 0.01 ·	0 < 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	11.2	11.2	< 0.005	< 0.005	0.01	
dor < 0.005 lling 0 L. Paving (2026) - U	< 0.005 0 Jnmitigated	0.01 0.02 0	0.06 0.01 · 0	0 < 0.005 0	< 0.005	< 0.005 0	< 0.005 0	< 0.005 0	< 0.005 0	< 0.005 0	11.2 0	11.2 0	< 0.005 0	< 0.005) 0	0.01 0	
dor < 0.005 ling 0 l. Paving (2026) - U ation TOG	< 0.005 0 Jnmitigated	0.01 0.02	0.06 0.01 · 0	0 < 0.005	< 0.005	< 0.005 0	< 0.005 0	< 0.005 0	< 0.005	< 0.005 0	11.2 0	11.2	< 0.005	< 0.005	0.01 0	
dor < 0.005 ling 0 l. Paving (2026) - U ation TOG	< 0.005 0 Jnmitigated	0.01 0.02 0	0.06 0.01 · 0	0 < 0.005 0	< 0.005	< 0.005 0	< 0.005 0	< 0.005 0	< 0.005 0	< 0.005 0	11.2 0	11.2 0	< 0.005 0	< 0.005) 0	0.01 0	
dor < 0.005 ling 0 l. Paving (2026) - U ation TOG ite	< 0.005 0 Jnmitigated	0.01 0.02 0	0.06 0.01 · 0	0 < 0.005 0	< 0.005	< 0.005 0	< 0.005 0	< 0.005 0	< 0.005 0	< 0.005 0	11.2 0	11.2 0	< 0.005 0	< 0.005) 0	0.01 0	
dor < 0.005 ling 0 . Paving (2026) - U ation TOG ite y, Summer (Max)	< 0.005 0 Jnmitigated	0.01 0.02 0	0.06 0.01 · 0	0 < 0.005 0	< 0.005	< 0.005 0	< 0.005 0	< 0.005 0	< 0.005 0	< 0.005 0	11.2 0	11.2 0	< 0.005 0	< 0.005) 0	0.01 0	
dor < 0.005 ling 0 . Paving (2026) - U titon TOG ite /, Summer (Max) /, Winter (Max)	< 0.005 0 Jnmitigated ROG	0.01 0.02 0 NOx Co	0.06 0.01 0	0 < 0.005 0 SO ₂	< 0.005 0 PM10E	< 0.005 0 PM10D	< 0.005 0 PM10T	< 0.005 0 PM2.5E	< 0.005 0	< 0.005 0 PM2.5T	11.2 0 BCO ₂ NBCO ₂	11.2 0 CO ₂ T	< 0.005 0 CH ₄	< 0.005) 0 N ₂ O F	0.01 0	
dor < 0.005 ing 0 . Paving (2026) - U tion TOG te r, Summer (Max) r, Winter (Max) Road E 0.59	< 0.005 0 Jnmitigated ROG 0.49	0.01 0.02 0	0.06 0.01 · 0	0 < 0.005 0	< 0.005	< 0.005 0 PM10D	< 0.005 0	< 0.005 0	< 0.005 0	< 0.005 0	11.2 0	11.2 0	< 0.005 0	< 0.005) 0 N ₂ O F	0.01 0	
for < 0.005 ing 0 . Paving (2026) - U tion TOG te , Summer (Max) , Winter (Max) Road E 0.59 ng 0	< 0.005 0 Jnmitigated ROG 0.49 0	0.01 0.02 0 NOX CO 4.24	0.06 0.01 < 0 5.3	< 0.005 0 SO ₂ 0.01	< 0.005 0 PM10E 0.18	< 0.005 0 PM10D	< 0.005 0 PM10T 0.18	< 0.005 0 PM2.5E 0.16	< 0.005 0 PM2.5D	< 0.005 0 PM2.5T 0.16	11.2 0 BCO ₂ NBCO ₂ 823	11.2 0 CO ₂ T 823	< 0.005 0 CH ₄ 0.03	< 0.005) 0 N ₂ O F 3 0.01	0.01 0	
lor < 0.005 ing 0 . Paving (2026) - U tion TOG te , Summer (Max) , Winter (Max) Road E 0.59 Ng 0 te truc 0	< 0.005 0 Jnmitigated ROG 0.49 0	0.01 0.02 0 NOx Co	0.06 0.01 0	0 < 0.005 0 SO ₂	< 0.005 0 PM10E	< 0.005 0 PM10D	< 0.005 0 PM10T	< 0.005 0 PM2.5E	< 0.005 0	< 0.005 0 PM2.5T 0.16	11.2 0 BCO ₂ NBCO ₂	11.2 0 CO ₂ T	< 0.005 0 CH ₄	< 0.005) 0 N ₂ O F 3 0.01	0.01 0	
tor < 0.005 ing 0 . Paving (2026) - U tition TOG te r, Summer (Max) r, Winter (Max) Road E 0.59 Rg 0 te truc 0	< 0.005 0 Jnmitigated ROG 0.49 0	0.01 0.02 0 NOX CO 4.24	0.06 0.01 < 0 5.3	< 0.005 0 SO ₂ 0.01	< 0.005 0 PM10E 0.18	< 0.005 0 PM10D	< 0.005 0 PM10T 0.18	< 0.005 0 PM2.5E 0.16	< 0.005 0 PM2.5D	< 0.005 0 PM2.5T 0.16	11.2 0 BCO ₂ NBCO ₂ 823	11.2 0 CO ₂ T 823	< 0.005 0 CH ₄ 0.03	< 0.005) 0 N ₂ O F 3 0.01	0.01 0	
lor <0.005 ing 0 Paving (2026) - U tion TOG te , Summer (Max) , Winter (Max) koad E 0.59 vg 0 te truc 0 age Daily	< 0.005 0 Jnmitigated ROG 0.49 0 0	0.01 0.02 0 NOX CO 4.24 0	0.06 0.01 0 5.3 0	< 0.005 0 SO ₂ 0.01 0	< 0.005 0 PM10E 0.18 0	< 0.005 0 PM10D 0	< 0.005 0 PM10T 0.18 0	< 0.005 0 PM2.5E 0.16 0	< 0.005 0 PM2.5D	< 0.005 0 PM2.5T 0.16 0	11.2 0 BCO ₂ NBCO ₂ 823 0	11.2 0 CO ₂ T 823 0	< 0.005 0 CH ₄ 0.03 0	 < 0.005) 0 N₂O F 3 0.01 0 	0.01 0	
tor < 0.005 ing 0 . Paving (2026) - U tition TOG te 4, Summer (Max) , Winter (Max) Road E 0.59 ng 0 te truc 0 age Daily 6004 E 0.03	< 0.005 0 Jnmitigated ROG 0.49 0 0	0.01 0.02 0 NOX CO 4.24	0.06 0.01 0 5.3 0	< 0.005 0 SO ₂ 0.01	< 0.005 0 PM10E 0.18	< 0.005 0 PM10D 0	< 0.005 0 PM10T 0.18	< 0.005 0 PM2.5E 0.16	< 0.005 0 PM2.5D	< 0.005 0 PM2.5T 0.16	11.2 0 BCO ₂ NBCO ₂ 823	11.2 0 CO ₂ T 823 0	< 0.005 0 CH ₄ 0.03 0	< 0.005) 0 N ₂ O F 3 0.01	0.01 0	CO₂e
tor < 0.005 ling 0 Paving (2026) - U tition TOG te , Summer (Max) v, Winter (Max) Noad E 0.59 ng 0 te truc 0 age Daily Noad E 0.03 ng 0	< 0.005 0 Jnmitigated ROG 0.49 0 0 0 0.03 0	0.01 0.02 0 NOX CO 4.24 0 0.24	0.06 0.01 · 0 5.3 0 0.3 ·	< 0.005 0 502 0.01 0 < 0.005	< 0.005 0 PM10E 0.18 0 0.01	< 0.005 0 PM10D 0	< 0.005 0 PM10T 0.18 0 0.01	< 0.005 0 PM2.5E 0.16 0 0.01	< 0.005 0 PM2.5D	< 0.005 0 PM2.5T 0.16 0 0.01	11.2 0 BCO ₂ NBCO ₂ 823 0 47.3	11.2 0 CO ₂ T 823 0 47.3	< 0.005 0 CH ₄ 0.03 0 < 0.005	 < 0.005 0 0 N₂O F 3 0.01 0 < 0.005 	0.01 0	
dor < 0.005 ling 0 . Paving (2026) - U tition TOG ite y, Summer (Max) y, Winter (Max) aga 0.59 ang 0 ite truc 0 age Daily Road E 0.03 ang 0 ite truc 0	< 0.005 0 Jnmitigated ROG 0.49 0 0 0 0.03 0	0.01 0.02 0 NOX CO 4.24 0	0.06 0.01 0 5.3 0	< 0.005 0 SO ₂ 0.01 0	< 0.005 0 PM10E 0.18 0 0.01	< 0.005 0 PM10D 0	< 0.005 0 PM10T 0.18 0	< 0.005 0 PM2.5E 0.16 0	< 0.005 0 PM2.5D	< 0.005 0 PM2.5T 0.16 0 0.01	11.2 0 BCO ₂ NBCO ₂ 823 0	11.2 0 CO ₂ T 823 0	< 0.005 0 CH ₄ 0.03 0	 < 0.005 0 0 N₂O F 3 0.01 0 < 0.005 	0.01 0	CO₂e
dor < 0.005 ling 0 . Paving (2026) - U tition TOG ite y, Summer (Max) y, Winter (Max) aga 0.59 ang 0 ite truc 0 age Daily Road E 0.03 ang 0 ite truc 0	< 0.005 0 Jnmitigated ROG 0.49 0 0 0 0.03 0	0.01 0.02 0 NOX CO 4.24 0 0.24	0.06 0.01 · 0 5.3 0 0.3 ·	< 0.005 0 502 0.01 0 < 0.005	< 0.005 0 PM10E 0.18 0 0.01	< 0.005 0 PM10D 0	< 0.005 0 PM10T 0.18 0 0.01	< 0.005 0 PM2.5E 0.16 0 0.01	< 0.005 0 PM2.5D	< 0.005 0 PM2.5T 0.16 0 0.01	11.2 0 BCO ₂ NBCO ₂ 823 0 47.3	11.2 0 CO ₂ T 823 0 47.3	< 0.005 0 CH ₄ 0.03 0 < 0.005	 < 0.005 0 0 N₂O F 3 0.01 0 < 0.005 	0.01 0	CO₂e
tor < 0.005 ling 0 . Paving (2026) - U tition TOG te , Summer (Max) , Winter (Max) Road E 0.59 ng 0 te truc 0 age Daily Noad E 0.03 ng 0 te truc 0 Jal	< 0.005 0 Jnmitigated ROG 0.49 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.01 0.02 0 NOX CO 4.24 0 0.24	0.06 0.01 0 5.3 0 0.3 0	< 0.005 0 SO ₂ 0.01 0 < 0.005 0	< 0.005 0 PM10E 0.18 0 0.01	< 0.005 0 PM10D 0 0	< 0.005 0 PM10T 0.18 0 0.01 0	< 0.005 0 PM2.5E 0.16 0 0.01	< 0.005 0 PM2.5D	< 0.005 0 PM2.5T 0.16 0 0.01	11.2 0 BCO ₂ NBCO ₂ 823 0 47.3	11.2 0 CO ₂ T 823 0 47.3 0	< 0.005 0 CH ₄ 0.03 0 < 0.005	 < 0.005 0 0 N₂O F 3 0.01 0 < 0.005 	0.01 0	CO₂e
tor < 0.005 ing 0 .Paving (2026) - U tition TOG te te, Summer (Max) , Winter (Max) Noad E 0.59 ng 0 te truc 0 age Daily 0 te truc 0 age Daily 0 te truc 0 age Daily 0 te truc 0 age Daily 0 te truc 0 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1	< 0.005 0 Jnmitigated ROG 0.49 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.01 0.02 0 NOX CO 4.24 0 0.24 0	0.06 0.01 0 5.3 0 0.3 0	< 0.005 0 SO ₂ 0.01 0 < 0.005 0	< 0.005 0 PM10E 0.18 0 0.01	< 0.005 0 PM10D 0 0	< 0.005 0 PM10T 0.18 0 0.01 0	< 0.005 0 PM2.5E 0.16 0 0.01	< 0.005 0 PM2.5D	< 0.005 0 PM2.5T 0.16 0 0.01	11.2 0 BCO ₂ NBCO ₂ 823 0 47.3 0	11.2 0 CO ₂ T 823 0 47.3 0	< 0.005 0 CH ₄ 0.03 0 < 0.005	< 0.005) 0 N ₂ O F 3 0.01) 0 < 0.005) 0	0.01 0	CO₂€
tor <0.005 ing 0 . Paving (2026) - U tition TOG te , Summer (Max) v, Winter (Max) Noad E 0.59 ng 0 te truc 0 age Daily Noad E 0.03 ng 0 te truc 0 age Daily Noad E 0.03 ng 0 te truc 0 al Noad E 0.01 ng 0	< 0.005 0 Jumitigated ROG 0,49 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.01 0.02 0 NOX CO 4.24 0 0.24 0 0.04	0.06 0.01 0 5.3 0 0.3 0 0.06	< 0.005 0 502 0.01 0 < 0.005 0 < 0.005	< 0.005 0 PM10E 0.18 0 0.01 0 < 0.005	< 0.005 0 PM10D 0	< 0.005 0 PM10T 0.18 0 0.01 0 < 0.005	< 0.005 0 PM2.5E 0.16 0 0.01 0 < 0.005	< 0.005 0 PM2.5D 0 0	< 0.005 0 PM2.5T 0.16 0 0.01 0 < 0.005	11.2 0 BCO ₂ NBCO ₂ 823 0 47.3 0 7.84	11.2 0 CO ₂ T 823 0 47.3 0 7.84	< 0.005 0 CH ₄ 0.03 < 0.005 0 < 0.005	< 0.005) 0 N ₂ O F 3 0.01) 0 < 0.005 > 0 < 0.005	0.01 0 8 0 0	CO₂e
tor < 0.005 ing 0 Paving (2026) - U tion TOG te s, Summer (Max) y, Winter (Max) y, Winter (Max) hoad E 0.59 ng 0 te truk 0 age Daily tooad E 0.03 ng 0 te truk 0 age 0 te truk 0	< 0.005 0 Jumitigated ROG 0,49 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.01 0.02 0 NOX CO 4.24 0 0.24 0	0.06 0.01 0 5.3 0 0.3 0	< 0.005 0 SO ₂ 0.01 0 < 0.005 0	< 0.005 0 PM10E 0.18 0 0.01	< 0.005 0 PM10D 0	< 0.005 0 PM10T 0.18 0 0.01 0	< 0.005 0 PM2.5E 0.16 0 0.01	< 0.005 0 PM2.5D	< 0.005 0 PM2.5T 0.16 0 0.01 0 < 0.005	11.2 0 BCO ₂ NBCO ₂ 823 0 47.3 0	11.2 0 CO ₂ T 823 0 47.3 0	< 0.005 0 CH ₄ 0.03 0 < 0.005	< 0.005) 0 N ₂ O F 3 0.01) 0 < 0.005 > 0 < 0.005	0.01 0	CO₂€
lor <0.005 ing 0 Paving (2026) - U tion TOG te , Summer (Max) , Winter (Max) toad E 0.59 koad E 0.03 ng 0 te truc 0 age Daily koad E 0.03 ng 0 te truc 0 ta te truc 0 te truc 1 te t	< 0.005 0 Jumitigated ROG 0,49 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.01 0.02 0 NOX CO 4.24 0 0.24 0 0.04	0.06 0.01 0 5.3 0 0.3 0 0.06	< 0.005 0 SO ₂ 0.01 0 < 0.005 0	< 0.005 0 PM10E 0.18 0 0.01 0 < 0.005	< 0.005 0 PM10D 0	< 0.005 0 PM10T 0.18 0 0.01 0 < 0.005	< 0.005 0 PM2.5E 0.16 0 0.01 0 < 0.005	< 0.005 0 PM2.5D 0 0	< 0.005 0 PM2.5T 0.16 0 0.01 0 < 0.005	11.2 0 BCO ₂ NBCO ₂ 823 0 47.3 0 7.84	11.2 0 CO ₂ T 823 0 47.3 0 7.84	< 0.005 0 CH ₄ 0.03 < 0.005 0 < 0.005	< 0.005) 0 N ₂ O F 3 0.01) 0 < 0.005 > 0 < 0.005	0.01 0 8 0 0	CO₂e
tor < 0.005 ing 0 . Paving (2026) - U tition TOG te , Summer (Max) , Winter (Max) Road E 0.59 Road E 0.03 ng 0 te truc 0 age Daily Noad E 0.01 ng 0 te truc 1 te	< 0.005 0 Jumitigated ROG 0,49 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.01 0.02 0 NOX CO 4.24 0 0.24 0 0.04	0.06 0.01 0 5.3 0 0.3 0 0.06	< 0.005 0 SO ₂ 0.01 0 < 0.005 0	< 0.005 0 PM10E 0.18 0 0.01 0 < 0.005	< 0.005 0 PM10D 0	< 0.005 0 PM10T 0.18 0 0.01 0 < 0.005	< 0.005 0 PM2.5E 0.16 0 0.01 0 < 0.005	< 0.005 0 PM2.5D 0 0	< 0.005 0 PM2.5T 0.16 0 0.01 0 < 0.005	11.2 0 BCO ₂ NBCO ₂ 823 0 47.3 0 7.84	11.2 0 CO ₂ T 823 0 47.3 0 7.84	< 0.005 0 CH ₄ 0.03 < 0.005 0 < 0.005	< 0.005) 0 N ₂ O F 3 0.01) 0 < 0.005 > 0 < 0.005	0.01 0 8 0 0	CO₂e
lor < 0.005 ing 0 .Paving (2026) - U tion TOG te s, Summer (Max) , Viniter (Max) load E 0.59 ng 0 te truc 0 nge Daily te Daily 0 te truc 0 ng 0 te truc 0 te truc 0 te truc 0 te dat 0.01 ng 0 te dat 0.01 te dat 0.	< 0.005 0 Jumitigated ROG 0,49 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.01 0.02 0 NOX CO 4.24 0 0.24 0 0.04	0.06 0.01 0 5.3 0 0.3 0 0.06	< 0.005 0 SO ₂ 0.01 0 < 0.005 0	< 0.005 0 PM10E 0.18 0 0.01 0 < 0.005	< 0.005 0 PM10D 0	< 0.005 0 PM10T 0.18 0 0.01 0 < 0.005	< 0.005 0 PM2.5E 0.16 0 0.01 0 < 0.005	< 0.005 0 PM2.5D 0 0	< 0.005 0 PM2.5T 0.16 0 0.01 0 < 0.005	11.2 0 BCO ₂ NBCO ₂ 823 0 47.3 0 7.84	11.2 0 CO ₂ T 823 0 47.3 0 7.84	< 0.005 0 CH ₄ 0.03 < 0.005 0 < 0.005	< 0.005) 0 N ₂ O F 3 0.01) 0 < 0.005 > 0 < 0.005	0.01 0 8 0 0	CO₂e
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dor < 0.005 ling 0 Paving (2026) - U ation TOG ite y, Summer (Max) Ng 0 lite truk 0 Ng 0 lite truk 0 lite 4 lite 4 lit	< 0.005 0 Jnmitigated ROG 0.49 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.01 0.02 0 NOX CO 4.24 0 0.24 0 0.04 0 0.04 0 0 <0.005 0 0 <0.005	0.06 0.01 5.3 0 0.3 0 0.06 0 0 0.06 0 0 0.057 0 0 0 0 0.03 0 0 0.03	< 0.005 SO ₂ 0.01 0 < 0.005 0 < 0.005 0 0 0 0 0 0 0 0 0 0 0 0 0	< 0.005 PM10E 0.18 0.01 0.01 0 0 0 0 0 0 0 0 0 0 0 0 0	< 0.005 0 PM10D 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	< 0.005 0 PM10T 0.18 0 0.01 0 < 0.005 0 0.14 0 0 0.11 0 0 0 < 0.005	< 0.005 0 PM2.5E 0.16 0 0.01 0 < 0.005 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	< 0.005 0 PM2.5D 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	< 0.005 PM2.5T 0.16 0.16 0.01 0 < 0.005 0 < 0.005 0 < 0.005 0 0	11.2 0 BCO ₂ NBCO ₂ 823 0 47.3 0 7.84 0 7.84 0 7.84 0 7.88 0 0 0 138 0 0	11.2 0 CO ₂ T 823 0 47.3 0 7.84 0 7.84 0 7.84 0 7.88 0 0 0 1.38	< 0.005 0 CH ₄ 0.03 0 < 0.005 0 < 0.005 0 0 < 0.005 0 0 < 0.005 0 0 < 0.005 0 0 0 < 0.005 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	<0.005 N ₂ O 8 0 0 0 0 0 0 0 0 0 0 0 0 0		CO₂e

USEL HAMING LOCATION TO G 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 E 0.59 Paving 0 Onsite truc 0																	
0	0.49	4.24	5.3	0.03	L 0.18	3	0.18	0.16		0.16	823	823	0.0	3 0.	01		826
	0 0	0	0	() () 0	0	0	0	0	0	0		0	0	0	0
Average Daily	0	0	0		, (, ,	0	0	0	0	0	0		0	0	0	0
Off-Road E 0.03	0.03	0.24	0.3	< 0.005	0.01	L	0.01	0.01		0.01	47.3	47.3	< 0.005	< 0.005			47.5
Paving 0 Onsite truc 0	0 0	0	0	() () 0	0	0	0	0	0	0		0	0	0	0
Annual	0	0	0		, (, ,	0	0	0	0	0	0		0	0	0	0
Off-Road E 0.01	0.01	0.04	0.06	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005	7.84	7.84	< 0.005	< 0.005			7.87
Paving 0 Onsite truc 0	0 0	0	0	,) () 0	0	0	0	0	0	0		0	0	0	0
Onsite truc 0 Offsite	U	0	U	() (J U	0	0	0	U	0	0		0	0	0	0
Daily, Summer (Max)																	
Daily, Winter (Max)														_			
Worker 0.06 Vendor 0	0.05 0	0.05 0	0.57 0	(0	0.03 0	0.03 0	138 0	138 0	< 0.005	0. 0	01 0 0	0.01 0	140 0
Hauling 0	0	0	0					0	0	0	0	0		0	0	0	0
Average Daily																	
Worker < 0.005 Vendor 0	< 0.005 <	0.005	0.03 0	(0	< 0.005	< 0.005 0	7.98	7.98 0	< 0.005	< 0.005 0	0	0.01 0	8.1 0
Vendor 0 Hauling 0	0	0	0					0	0 0		0	0		0	0	0	0
Annual																	
		0.005	0.01	() < 0.005	< 0.005		< 0.005	< 0.005	1.32		< 0.005	< 0.005			1.34
Vendor 0 Hauling 0	0 0	0 0	0 0					0	0		0	0		0 0	0 0	0 0	0 0
riduung 0	0	0	0		, (, ,	0	0	0	0	0	0		0	0	0	0
3.13. Architectural Co		-															
Location TOG Onsite	ROG N	10x (0	SO ₂	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T BC	CO ₂ NBCO ₂	CO ₂ T	CH₄	N ₂ O	R	CO	2e
Daily, Summer (Max)																	
Daily, Winter (Max)																	
Off-Road E 0.15	0.12	0.86	1.13	< 0.005	0.02	2	0.02	0.02		0.02	134	134	0.0	1 < 0.005			134
Architectu 15 Onsite truc 0	15 0	0	0	() () 0	0	0	Ö	0	0	Ō		0	0	0	Ō
Average Daily	0	0	Ū		,				Ū	Ŭ	°,	0		•	0	Ū	Ū
Off-Road E 0.01	0.01	0.05	0.07	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005	7.68	7.68	< 0.005	< 0.005			7.71
Architectu 0.86 Onsite truc 0	0.86 0	0	0	() () 0	0	0	0	0	0	0		0	0	0	0
Annual	0	0	U	,	, (, ,	U	0	0	0	0	0		0	0	U	U
	< 0.005	0.01	0.01	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005	1.27	1.27	< 0.005	< 0.005			1.28
Architectu 0.16	0.16										0			•		•	
Onsite truc 0 Offsite	0	0	0	() () 0	0	0	0	0	0	0		0	0	0	0
Daily, Summer (Max)																	
Daily, Winter (Max)																	
Worker 0.01 Vendor 0	0.01	0.01 0	0.12 0	(0	0.01 0	0.01 0	30.1 0	30.1 0	< 0.005	< 0.005 0	< 0.005 0	5 0	30.5 0
Hauling 0	0	0	0					0	0	0	0	0		0	0	0	0
Average Daily																	
Worker < 0.005		0.005	0.01	(0 < 0.005	< 0.005		< 0.005	< 0.005	1.74		< 0.005	< 0.005			1.76
Vendor 0 Hauling 0	0	0 0	0 0) () (0	0	0	0	0		0 0	0	0	0
Annual	0	Ū									0	0					v
	< 0.005 <										0	0		0	0	0	
Worker < 0.005			< 0.005	() (0 < 0.005	< 0.005	0	< 0.005	< 0.005	0.29	0.29	< 0.005	< 0.005	< 0.00	5	0.29
Vendor 0	0	0	0.005 0	() (0 0	0	0	0	< 0.005 0	0.29 0	0.29 0	< 0.005	< 0.005 0	< 0.005 0	5 0	0
	0 0		< 0.005	() (0 0	0	0		< 0.005	0.29	0.29	< 0.005	< 0.005	< 0.00	5	
Vendor 0 Hauling 0 3.14. Architectural Co	0 ating (2026)	0 0	< 0.005 0 0) () 0) 0	0 0	0 0 0	0	< 0.005 0 0	0.29 0 0	0.29 0 0	< 0.005	< 0.005 0 0	< 0.005 0 0	5 0 0	0 0
Vendor 0 Hauling 0 3.14. Architectural Co Location TOG	0 bating (2026)	0 0 - Mitigated	< 0.005 0 0	() (0 0	0 0	0 0 0	0	< 0.005 0	0.29 0 0	0.29 0 0	< 0.005	< 0.005 0	< 0.005 0	5 0	0 0
Vendor 0 Hauling 0 3.14. Architectural Co Location TOG Onsite	0 bating (2026)	0 0 - Mitigated	< 0.005 0 0) () () 0) 0	0 0	0 0 0	0	< 0.005 0 0	0.29 0 0	0.29 0 0	< 0.005	< 0.005 0 0	< 0.005 0 0	5 0 0	0 0
Vendor 0 Hauling 0 3.14. Architectural Co Location TOG	0 bating (2026)	0 0 - Mitigated	< 0.005 0 0) () () 0) 0	0 0	0 0 0	0	< 0.005 0 0	0.29 0 0	0.29 0 0	< 0.005	< 0.005 0 0	< 0.005 0 0	5 0 0	0 0
Vendor 0 Hauling 0 3.14. Architectural Cd Location TOG Onsite Daily, Summer (Max) Daily, Winter (Max) Off-Road E 0.15	0 pating (2026) ROG M 0.12	0 0 - Mitigated	< 0.005 0 0) () (0 0 0 0	0 0	0 0 0	0	< 0.005 0 0	0.29 0 0	0.29 0 0	< 0.005 CH ₄	< 0.005 0 0	< 0.005 0 0 R	5 0 0	0 0
Vendor 0 Hauling 0 3.14. Architectural Co Location Location TOG Onsite Daily, Summer (Max) Daily, Winter (Max) Off-Road E 01f-Road E 0.15 Architectu 15	0 nating (2026) ROG M 0.12 15	0 0 - Mitigated IOx 0 0.86	0.005 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	(((((((((((((((((((() ()) () PM10E) 0) 0 PM10D	0 0 PM10T 0.02	0 0 PM2.5E 0.02	0 0 PM2.5D	< 0.005 0 0 PM2.5T BC 0.02	0.29 0 0 CO ₂ NBCO ₂ 134	0.29 0 0 CO ₂ T 134	< 0.005 CH ₄ 0.0	< 0.005 0 N ₂ O 1 < 0.005	< 0.00! 0 0 R	5 0 0	0 0 9 ₂ e 134
Vendor 0 Hauling 0 3.14. Architectural Collocation TOG Location TOG Daily, Summer (Max) Ddify, Winter (Max) Off-Road E 0.15 Architectu 15 Onsite truc 0	0 pating (2026) ROG M 0.12	0 0 - Mitigated IOx (< 0.005 0 0	((((((((((((((((((())))))) ()) () PM10E) 0) 0 PM10D	0 0 PM10T 0.02	0 0 0 PM2.5E	0	< 0.005 0 0 PM2.5T BC 0.02	0.29 0 0 0	0.29 0 0 CO ₂ T	< 0.005 CH ₄ 0.0	< 0.005 0 0 N ₂ O	< 0.005 0 0 R	5 0 0	0 0
Vendor 0 Hauling 0 3.14. Architectural Co Location Location TOG Onsite Daily, Summer (Max) Daily, Winter (Max) Off-Road E 01f-Road E 0.15 Architectu 15	0 nating (2026) ROG M 0.12 15	0 0 - Mitigated IOx 0 0.86	< 0.005 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SO ₂) ()) () PM10E) 0) 0 PM10D	0 0 PM10T 0.02 0	0 0 PM2.5E 0.02	0 0 PM2.5D	< 0.005 0 0 PM2.5T BC 0.02	0.29 0 0 CO ₂ NBCO ₂ 134	0.29 0 0 CO ₂ T 134 0	< 0.005 CH ₄ 0.0	< 0.005 0 N ₂ O 1 < 0.005	< 0.009 0 0 R	5 0 0	0 0 9 ₂ e 134
Vendor 0 Hauling 0 3.14. Architectural Collocation TOG Location TOG Onsite Daily, Summer (Max) Daily, Winter (Max) Off-Road E 0ff-Road E 0.15 Architectu 15 Onsite truc 0 Average Daily Off-Road E 0ff-Road E 0.10	0 ROG N 0.12 15 0 0.01 0.86	0 0 - Mitigated 40x 0 0.86 0 0	 0.005 0 0 0 0 1.13 0 0.07 	SO ₂ < 0.005 < 0.005) ()) () PM10E 0.02) () < 0.005) 0) 0 PM10D 2) 0	0 0 PM10T 0.02 0 < 0.005	0 0 0 PM2.5E 0.02 0 < 0.005	0 0 PM2.5D	< 0.005 0 0 PM2.5T BC 0.02 0 < 0.005	0.29 0 0202 NBCO2 134 0 7.68	0.29 0 0 CO ₂ T 134 0 7.68	< 0.005 CH ₄ 0.0 < 0.005	< 0.005 0 N ₂ O 1 < 0.005 0 < 0.005	< 0.005 0 0 R	5 0 0 CC	0 0 2 ² e 134 0 7.71
Vendor 0 Hauling 0 3.14. Architectural Collocation 10G Location TOG Onsite Daily, Summer (Max) Daily, Winter (Max) 0ff-Road E 0.15 Architectu 15 Onsite truc 0 Average Daily 0 Off-Road E 0.01 Architectu 0.86 Onsite truc 0	0 aating (2026) ROG M 0.12 15 0 0.01	0 0 - Mitigated IOx 0 0.86 0	 0.005 0 0 0 0 1.13 0 	SO ₂ < 0.005 < 0.005) ()) () PM10E 0.02) () < 0.005) 0) 0 PM10D 2) 0	0 0 PM10T 0.02 0 < 0.005	0 0 PM2.5E 0.02 0	0 0 PM2.5D	< 0.005 0 0 PM2.5T BC 0.02 0	0.29 0 0 002 NBCO2 134 0	0.29 0 0 CO ₂ T 134 0	< 0.005 CH ₄ 0.0 < 0.005	< 0.005 0 N ₂ O 1 < 0.005 0	< 0.009 0 0 R	5 0 0	0 0 9 ₂ e 134 0
Vendor 0 Hauling 0 3.14. Architectural Collection 10G Location TOG Onsite Daily, Summer (Max) Difly, Winter (Max) 0ff-Road E Off-Road E 0.15 Architectu 15 Onsite truc 0 Average Daily 0ff-Road E Off-Road E 0.01 Architectu 0.86 Onsite truc 0 Annual 0	0 Ating (2026) ROG N 0.12 15 0 0.01 0.86 0	0 0 - Mitigated IOx 0 0.86 0 0.05 0	 0.005 0 0 0 0 1.13 0 0.07 0 	SO ₂) ()) () PM10E () () < 0.005) 0) 0 PM10D 2) 0	0 0 PM10T 0.02 0 < 0.005 0	0 0 0 PM2.5E 0.02 < 0.005 0	0 0 PM2.5D	< 0.005 0 0 PM2.5T BC 0.02 0 < 0.005 0	0.29 0 002 NBCO2 134 0 7.68 0	0.29 0 0 CC2₂T 134 0 7.68 0	< 0.005 CH ₄ 0.0 < 0.005	< 0.005 0 N ₂ O 1 < 0.005 0 0	< 0.009 0 0 R 0 0	5 0 0 CC	0 0 22e 134 0 7.71 0
Vendor 0 Hauling 0 3.14. Architectural Collection 10G Location TOG Onsite Daily, Summer (Max) Difly, Winter (Max) 0ff-Road E Off-Road E 0.15 Architectu 15 Onsite truc 0 Average Daily 0ff-Road E Off-Road E 0.01 Architectu 0.86 Onsite truc 0 Annual 0	0 ROG N 0.12 15 0 0.01 0.86	0 0 - Mitigated 40x 0 0.86 0 0	 0.005 0 0 0 0 1.13 0 0.07 0 	SO ₂) ()) () PM10E 0.02) () < 0.005) 0) 0 PM10D 2) 0	0 0 PM10T 0.02 0 < 0.005 0	0 0 0 PM2.5E 0.02 0 < 0.005	0 0 PM2.5D	< 0.005 0 0 PM2.5T BC 0.02 0 < 0.005	0.29 0 0202 NBCO2 134 0 7.68	0.29 0 0 CC2₂T 134 0 7.68 0	< 0.005 CH ₄ 0.0 < 0.005	< 0.005 0 N ₂ O 1 < 0.005 0 < 0.005	< 0.009 0 0 R 0 0	5 0 0 CC	0 0 2 ² e 134 0 7.71
Vendor 0 Hauling 0 3.14. Architectural Collocation 0G Location TOG Onsite Daily, Summer (Max) Daily, Winter (Max) 0ff-Road E 0.15 Architectu 15 Onsite truc 0 Average Daily 0ff-Road E 0.01 Architectu 0.86 Onsite truc 0 Annual 0ff-Road E Off-Road E 0.016 Architectu 0.56	0 ating (2026) ROG N 0.12 15 0 0.01 0.86 0 < 0.005	0 0 - Mitigated IOx 0 0.86 0 0.05 0	 0.005 0 0 0 0 1.13 0 0.07 0 	SO ₂ < 0.005 < 0.005) () () PM10E () (< 0.005) (< 0.005) 0 0 PM10D 2 0 0	0 0 PM10T 0.02 0 < 0.005 0 < 0.005	0 0 0 PM2.5E 0.02 < 0.005 0	0 0 PM2.5D	< 0.005 0 0 PM2.5T BC 0.02 0 < 0.005 0	0.29 0 002 NBCO2 134 0 7.68 0	0.29 0 0 CC2₂T 134 0 7.68 0	< 0.005 CH ₄ 0.0 < 0.005 < 0.005	< 0.005 0 N ₂ O 1 < 0.005 0 0	< 0.009 0 0 R 0 0	5 0 0 CC	0 0 22e 134 0 7.71 0
Vendor 0 Hauling 0 3.14. Architectural Collocation 10G Location TOG Onsite Daily, Summer (Max) Daily, Winter (Max) 0ff-Road E Off-Road E 0.15 Architectu 15 Onsite truc 0 Average Daily 0ff-Road E Off-Road E 0.01 Architectu 0.86 Onsite truc 0 Annual 0ff-Road E < 0.005	0 Ating (2026) ROG 1 0.12 15 0 0.01 0.86 0 < 0.005 0.16	0 0 - Mitigated 40x 0 0.86 0 0.05 0 0.01	 0.005 0 0<td>SO₂ < 0.005 < 0.005</td><td>) () () PM10E () (< 0.005) (< 0.005</td><td>) 0 0 PM10D 2 0 0</td><td>0 0 PM10T 0.02 0 < 0.005 0 < 0.005</td><td>0 0 0 PM2.5E 0.02 0 < 0.005 0 < 0.005</td><td>0 0 PM2.5D 0</td><td>< 0.005 0 0 PM2.5T BC 0.02 0 < 0.005</td><td>0.29 0 0 30₂ NBCO₂ 134 0 7.68 0 1.27</td><td>0.29 0 0 CO₂T 134 0 7.68 0 1.27</td><td>< 0.005 CH₄ 0.0 < 0.005 < 0.005</td><td>< 0.005 0 N₂O 1 < 0.005 0 < 0.005</td><td>< 0.009 0 0 R 0 0</td><td>5 0 0 0</td><td>0 0 22^e 134 0 7.71 0 1.28</td>	SO ₂ < 0.005 < 0.005) () () PM10E () (< 0.005) (< 0.005) 0 0 PM10D 2 0 0	0 0 PM10T 0.02 0 < 0.005 0 < 0.005	0 0 0 PM2.5E 0.02 0 < 0.005 0 < 0.005	0 0 PM2.5D 0	< 0.005 0 0 PM2.5T BC 0.02 0 < 0.005	0.29 0 0 30 ₂ NBCO ₂ 134 0 7.68 0 1.27	0.29 0 0 CO ₂ T 134 0 7.68 0 1.27	< 0.005 CH ₄ 0.0 < 0.005 < 0.005	< 0.005 0 N ₂ O 1 < 0.005 0 < 0.005	< 0.009 0 0 R 0 0	5 0 0 0	0 0 22 ^e 134 0 7.71 0 1.28
Vendor 0 Hauling 0 3.14. Architectural Collocation 10G Location TOG Onsite Daily, Summer (Max) Daily, Winter (Max) 0ff-Road E 0.11 Architectu 15 Onsite truc 0 Average Daily 0ff-Road E 0.01 Architectu 0.86 Onsite truc 0 Annual 0 Off-Road E 0.016 Architectu 0.6 Onsite truc 0.6	0 Ating (2026) ROG 1 0.12 15 0 0.01 0.86 0 < 0.005 0.16	0 0 - Mitigated 40x 0 0.86 0 0.05 0 0.01	 0.005 0 0<td>SO₂ < 0.005 < 0.005</td><td>) () () PM10E () (< 0.005) (< 0.005</td><td>) 0 0 PM10D 2 0 0</td><td>0 0 PM10T 0.02 0 < 0.005 0 < 0.005</td><td>0 0 0 PM2.5E 0.02 0 < 0.005 0 < 0.005</td><td>0 0 PM2.5D 0</td><td>< 0.005 0 0 PM2.5T BC 0.02 0 < 0.005</td><td>0.29 0 0 30₂ NBCO₂ 134 0 7.68 0 1.27</td><td>0.29 0 0 CO₂T 134 0 7.68 0 1.27</td><td>< 0.005 CH₄ 0.0 < 0.005 < 0.005</td><td>< 0.005 0 N₂O 1 < 0.005 0 < 0.005</td><td>< 0.009 0 0 R 0 0</td><td>5 0 0 0</td><td>0 0 22^e 134 0 7.71 0 1.28</td>	SO ₂ < 0.005 < 0.005) () () PM10E () (< 0.005) (< 0.005) 0 0 PM10D 2 0 0	0 0 PM10T 0.02 0 < 0.005 0 < 0.005	0 0 0 PM2.5E 0.02 0 < 0.005 0 < 0.005	0 0 PM2.5D 0	< 0.005 0 0 PM2.5T BC 0.02 0 < 0.005	0.29 0 0 30 ₂ NBCO ₂ 134 0 7.68 0 1.27	0.29 0 0 CO ₂ T 134 0 7.68 0 1.27	< 0.005 CH ₄ 0.0 < 0.005 < 0.005	< 0.005 0 N ₂ O 1 < 0.005 0 < 0.005	< 0.009 0 0 R 0 0	5 0 0 0	0 0 22 ^e 134 0 7.71 0 1.28
Vendor 0 Hauling 0 3.14. Architectural Collocation TOG Location TOG Onsite Daily, Summer (Max) Daily, Winter (Max) Off-Road E Off-Road E 0.15 Architectu 15 Onsite truc 0 Average Daily Off-Road E Off-Road E 0.011 Architectu 0.86 Onsite truc 0 Annual Off-Road E Off-Road E < 0.005	0 bating (2026) ROG N 0.12 15 0 0.01 0.86 0 < 0.005 0.16 0 0 0.01	0 0 - Mitigated 40x 0 0.86 0 0.05 0 0.01	 0.005 0 0<td>SO₂ < 0.005 < 0.005 (< 0.005</td><td>) () () PM10E () (() () () () () () () () (</td><td>) 0 PM10D 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td><td>0 0 PM10T 0.02 0 < 0.005 0 < 0.005 0</td><td>0 0 0 0.02 0.02 0 0 0 0 0 0 0 0 0 0 0 0</td><td>0 0 PM2.5D 0</td><td>< 0.005 0 0 PM2.5T BC 0.02 0 < 0.005</td><td>0.29 0 0 30₂ NBCO₂ 134 0 7.68 0 1.27</td><td>0.29 0 0 CO₂T 134 0 7.68 0 1.27 0 30.1</td><td>< 0.005 CH₄ 0.0 < 0.005 < 0.005</td><td>< 0.005 0 N₂O 1 < 0.005 0 < 0.005 0 < 0.005</td><td> < 0.009 0 R 0 0 0 0 < 0.009 </td><td>5 0 0 0</td><td>0 0 22^e 134 0 7.71 0 1.28</td>	SO ₂ < 0.005 < 0.005 (< 0.005) () () PM10E () (() () () () () () () () () 0 PM10D 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 PM10T 0.02 0 < 0.005 0 < 0.005 0	0 0 0 0.02 0.02 0 0 0 0 0 0 0 0 0 0 0 0	0 0 PM2.5D 0	< 0.005 0 0 PM2.5T BC 0.02 0 < 0.005	0.29 0 0 30 ₂ NBCO ₂ 134 0 7.68 0 1.27	0.29 0 0 CO ₂ T 134 0 7.68 0 1.27 0 30.1	< 0.005 CH ₄ 0.0 < 0.005 < 0.005	< 0.005 0 N ₂ O 1 < 0.005 0 < 0.005 0 < 0.005	 < 0.009 0 R 0 0 0 0 < 0.009 	5 0 0 0	0 0 22 ^e 134 0 7.71 0 1.28
Vendor 0 Hauling 0 3.14. Architectural Collocation TOG 0 Daily, Summer (Max) 0 Daily, Winter (Max) 0 Off-Road E 0.15 Architectu 15 Onsite truc 0 Average Daily 0 Off-Road E 0.01 Architectu 0.86 Onsite truc 0 Annual 0 Off-Road E < 0.005	0 Acting (2026) ROG N 0.12 15 0 0.01 0.86 0 0.01 0 0.005 0.016 0 0.011 0	0 0 0 0.86 0 0.05 0 0.01 0 0.01 0	0.005 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SO ₂ < 0.005 < 0.005) () () () () () () () () () () 0) 0 PM10D 2) 0) 0) 0) 0) 0.033) 0	0 0 PM10T 0.02 0 < 0.005 0 < 0.005 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0.02 0.02 0 < 0.005 0 < 0.005 0 0 0 0 0 0 0 0 0 0 0	0 0 PM2.5D 0 0 0 0	< 0.005 0 0 0.02 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.29 0 0 0202 NBCO2 134 0 7.68 0 1.27 0 30.1 0	0.29 0 0 CO ₂ T 134 0 7.68 0 1.27 0 30.1 0	< 0.005 CH ₄ 0.0 < 0.005 < 0.005	<pre>< 0.005 0 N20 1 < 0.005 0 < 0.005 0 0 < 0.005 0 0 < 0.005</pre>	 < 0.005 0 R 0 0 0 0 0 < 0.005 	5 0 0 0 0 0 5 0	0 0 22e 134 0 7.71 0 1.28 0 30.5 0
Vendor 0 Hauling 0 3.14. Architectural Cd Location TOG Doily, Summer (Max) Dialy, Winter (Max) Off-Road E 0.15 Architectu 15 Onsite truc 0 Average Daily Off-Road E Off-Road E 0.01 Architectu 0.86 Onsite truc 0 Annual Off-Road E < 0.005	0 bating (2026) ROG N 0.12 15 0 0.01 0.86 0 < 0.005 0.16 0 0 0.01	0 0 0 0.86 0 0.05 0 0.01 0 0.01	 0.005 0 0 0 0 1.13 0 0.07 0 0.01 0 0.12 	SO ₂ < 0.005 < 0.005) () () () () () () () () () () 0) 0 PM10D 2) 0) 0) 0) 0) 0.033) 0	0 0 PM10T 0.02 0 < 0.005 0 < 0.005 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0.02 0.02 0 0 0 0 0 0 0 0 0 0 0 0	0 0 PM2.5D 0 0 0	< 0.005 0 0 0.02 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.29 0 0 02 134 0 7.68 0 1.27 0 30.1	0.29 0 0 CO ₂ T 134 0 7.68 0 1.27 0 30.1	< 0.005 CH ₄ 0.0 < 0.005 < 0.005	< 0.005 0 N ₂ O 1 < 0.005 0 < 0.005 0 < 0.005	 < 0.009 0 R 0 0 0 0 < 0.009 	5 0 0 0 0 5	0 0 9 ₂ e 134 0 7.71 0 1.28 0 30.5
Vendor 0 Hauling 0 3.14. Architectural Cc Location Location TOG Onsite Daily, Summer (Max) Ddif, Summer (Max) 0ff-Road E 0.15 Architectu 15 Architectu 15 Onsite truc 0 Average Daily 0ff-Road E 0ff-Road E 0.01 Architectu 0.86 Onsite truc 0.6 Onsite truc 0.15 Architectu 0.16 Onsite truc 0.01 Annual 01 Off-Road E < 0.005	0 bating (2026) ROG N 0.12 15 0 0.01 0.86 0 0 < 0.005 0.16 0 0 0.011 0 0 0 0	0 0 0 0.86 0 0.05 0 0.01 0 0.01 0 0 0.01	0.005 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SO ₂ < 0.005 < 0.005) () () () () () () () () () () 0 0 PM10D 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0.02 0 < 0.005 0 < 0.005 0 0 0.03 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 PM2.5D 0 0 0 0 0 0 0 0 0 0 0 0 0 0	< 0.005 0 0 0 0 0 0 0 0 0 0 0 0 0	0.29 0 0 002 NBCO2 134 0 7.68 0 1.27 0 30.1 0 0 0	0.29 0 0 CO ₂ T 134 0 7.68 0 1.27 0 30.1 0 0	< 0.005 CH ₄ 0.0 < 0.005 < 0.005	<pre>< 0.005 0 N20 1 < 0.005 0 < 0.005 0 < 0.005 0 0 < 0.005</pre>	 < 0.005 0 R 0 0 0 0 < 0.005 0 < 0.005 	5 0 0 0 0	0 0 9 ₂ e 134 0 7.71 0 1.28 0 30.5 0 0
Vendor 0 Hauling 0 3.14. Architectural Cc Location Location TOG Onsite Daily, Summer (Max) Ddif, Summer (Max) 0ff-Road E 0.15 Architectu 15 Architectu 15 Onsite truc 0 Average Daily 0ff-Road E 0ff-Road E 0.01 Architectu 0.86 Onsite truc 0.6 Onsite truc 0.15 Architectu 0.16 Onsite truc 0.01 Annual 01 Off-Road E < 0.005	0 bating (2026) ROG N 0.12 15 0 0.01 0.86 0 0 < 0.005 0.16 0 0 0.011 0 0 0 0	0 0 0 0.86 0 0.05 0 0.01 0 0.01 0	CO CO 1.13 0 0.07 0 0.01 0 0.12 0 0 0	SO ₂ < 0.005 < 0.005 < 0.005) () () () () () () () () () () 0 0 PM10D 2 0	0 0 0 0.02 0 < 0.005 0 < 0.005 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 PM2.5D 0 0 0 0	< 0.005 0 0 0.02 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.29 0 0 0202 NBCO2 134 0 7.68 0 1.27 0 30.1 0	0.29 0 0 CO ₂ T 134 0 7.68 0 1.27 0 30.1 0 0	< 0.005 CH ₄ 0.0 < 0.005 < 0.005 < 0.005	<pre>< 0.005 0 N20 1 < 0.005 0 < 0.005 0 0 < 0.005 0 0 < 0.005</pre>	 < 0.005 0 R 0 0 0 0 < 0.005 0 < 0.005 	5 0 0 0 0	0 0 22e 134 0 7.71 0 1.28 0 30.5 0
Vendor 0 Hauling 0 3.14. Architectural Cd Location TOG Onsite 0 Daily, Summer (Max) Off-Road E 0.15 Architectu 15 Onsite truc 0 Average Daily 0ff-Road E Off-Road E 0.01 Architectu 0.86 Onsite truc 0 Annual 0 Off-Road E < 0.005	0 bating (2026) ROG N 0.12 15 0 0.01 0.86 0 < 0.005 0.16 0 0 0.01 0 0 < 0.001	0 0 0 0.86 0 0.05 0 0.01 0 0.01 0 0 0.01 0 0 0.01	20.005 0 0 0 0 0 0 0.07 0 0.011 0 0 0.012 0 0 0 0.011	SO ₂ < 0.005 < 0.005) () () () () () () () () () () 0 PM10D 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 PM10T 0.02 0 0 < 0.005 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0.02 0.02 0 0 0 0 0 0 0 0 0 0 0 0	0 0 PM2.5D 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	< 0.005 0 0 0 0 0 0 0 0 0 0 0 0 0	0.29 0 0 02 134 0 7.68 0 1.27 0 30.1 0 0 1.27	0.29 0 0 CO ₂ T 134 0 7.68 0 1.27 0 30.1 0 0	< 0.005 CH ₄ 0.0 < 0.005 < 0.005 < 0.005	<pre>< 0.005 0 N20 1 < 0.005 0 < 0.005 0 < 0.005 0 < 0.005 < 0.005</pre>	 < 0.009 0 R 0 0 0 < 0.009 < 0.009 < 0.009 < 0.009 	5 0 0 0 0 0 5 0 5 0 5	0 0 0 22 134 0 7.71 0 1.28 0 30.5 0 0 1.76
Vendor 0 Hauling 0 Hauling 0 3.14. Architectural Cc Location TOG Daily, Summer (Max) Diflexout (Max) Daily, Winter (Max) 0 Josite truc 15 Architectu 15 Architectu 15 Onsite truc 0 Average Daily 0ff-Road E Off-Road E 0.01 Architectu 0.86 Onsite truc 0.05 Architectu 0.16 Onsite truc 0.01 Off-Road E 0.015 Architectu 0.16 Onsite truc 0 Off-Road E 0.005 Architectu 0.16 Onsite truc 0 Offsite 0 Daily, Summer (Max) 0 Vorker 0.01 Vendor 0 Hauling 0 Average Daily 0 Worker 0.05 Vendor 0 Hauling 0 Annual 0	0 bating (2026) ROG N 0.12 15 0 0.01 0.86 0 0 < 0.005 0.16 0 0 < 0.001 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0.86 0 0.05 0 0.01 0 0 0.01 0 0 0 0.01 0 0 0 0 0 0	CO CO 1.13 0 0.07 0 0.01 0 0.12 0 0 0.01 0 0 0 0 0 0 0 0 0 0 0 0 0	SO2 < 0.005 < 0.005 < 0.005) (0) PM10E 0.02 (0.005 (0) (0) (0) (0) (0) 0 PM10D 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 PM2.5D 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	< 0.005 PM2.5T BC 0.02 0 0 0 0 0 0 0 0 0 0 0 0 0	0.29 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.29 0 0 CO ₂ T 134 0 7.68 0 1.27 0 30.1 0 1.74 0 0	< 0.005 CH ₄ 0.0 < 0.005 < 0.005 < 0.005	<pre>< 0.005 0 N20 1 < 0.005 0 < 0.005 0 < 0.005 0 0 < 0.005 0 0 < 0.005 0 0 < 0.005</pre>	 < 0.005 0 R 0 0 0 0 < 0.005 0 < 0.005 0 < 0.005 0 < 0.005 	5 0 0 0 0 5 0 5 0 0 5 0 0	0 0 0 22 134 0 7.71 0 1.28 0 30.5 0 0 1.76 0 0
Vendor 0 Hauling 0 Hauling 0 3.14. Architectural Cc Location TOG Daily, Summer (Max) Dif-Road E 0.15 Architectu 15 Onsite truc 0 Average Daily Off-Road E 0.01 Architectu 0.86 Onsite truc 0.86 Onsite truc 0.15 Architectu 0.86 Onsite truc 0.15 Architectu 0.16 Onsite truc 0.01 Annual 01 Off-Road E < 0.005	0 bating (2026) ROG N 0.12 15 0 0.01 0.86 0 0 < 0.005 0.16 0 0 < 0.001 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0.86 0 0.05 0 0.01 0 0 0.01 0 0 0 0.01 0 0 0 0 0 0	 0.005 0 0 0 1.13 0 0.07 0 0.01 0 0.12 0 0 0.11 0 	SO ₂ < 0.005 < 0.005 < 0.005) () () () () () () () () () () 0 0 PM10D 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 PM2.5D 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	< 0.005 0 0 0 0 0 0 0 0 0 0 0 0 0	0.29 0 0 0 0 0 0 134 0 7.68 0 1.27 0 30.1 0 0 1.74 0	0.29 0 0 CO ₂ T 134 0 7.68 0 1.27 0 30.1 0 1.74 0 0	< 0.005 CH ₄ 0.0 < 0.005 < 0.005 < 0.005 < 0.005	<pre>< 0.005 0 N20 1 < 0.005 0 < 0.005 0 0 < 0.005 0 0 < 0.005 0 0 < 0.005 0 0 < 0.005</pre>	 < 0.005 0 R 0 0 0 0 < 0.005 0 < 0.005 0 < 0.005 0 < 0.005 	5 0 0 0 0 5 0 5 0 0 5 0 0	0 0 134 0 7.71 0 1.28 0 30.5 0 0 1.76 0

Hauling 0 0	0 0	0 0	0 0 0	0 0	0 0	0 0	0 0
4. Operations Emissions Details							
 4.1. Mobile Emissions by Land Use 4.1.1. Unmitigated 							
Land Use TOG ROG NOx	CO SO ₂	PM10E PM10D	PM10T PM2.5E	PM2.5D PM2.5T BCO ₂	NBCO ₂ CO ₂ T	CH ₄ N ₂ O R	CO ₂ e
Daily, Summer (Max) Apartment 0.4 0.37	0.26 3	0.01 < 0.005 0.7	1 0.72 < 0.005	0.18 0.19	760 760	0.03 0.03	2.5 771
Enclosed F 0 0	0 0		0 0 0	0 0	0 0		0 0
	0.26 3	0.01 < 0.005 0.7	1 0.72 < 0.005	0.18 0.19	760 760	0.03 0.03	2.5 771
Daily, Winter (Max) Apartment 0.39 0.35	0.31 2.87	0.01 < 0.005 0.7	/1 0.72 < 0.005	0.18 0.19	718 718	0.03 0.03	0.06 728
Enclosed F 0 0	0 0		0 0 0	0 0	0 0		0 0
	0.31 2.87	0.01 < 0.005 0.7	1 0.72 < 0.005	0.18 0.19	718 718	0.03 0.03	0.06 728
Annual Apartment 0.07 0.06	0.05 0.48 < 0.00	05 < 0.005 0.1	.2 0.12 < 0.005	0.03 0.03	113 113	0.01 < 0.005	0.17 115
Enclosed F 0 0	0 0		0 0 0	0 0	0 0	0 0	0 0
Total 0.07 0.06	0.05 0.48 < 0.00	05 < 0.005 0.1	.2 0.12 < 0.005	0.03 0.03	113 113	0.01 < 0.005	0.17 115
4.1.2. Mitigated							
Land Use TOG ROG NOx	CO SO ₂	PM10E PM10D	PM10T PM2.5E	PM2.5D PM2.5T BCO ₂	NBCO ₂ CO ₂ T	CH ₄ N ₂ O R	CO ₂ e
Daily, Summer (Max)							
Apartment 0.4 0.37 Enclosed F 0 0	0.26 3	0.01 < 0.005 0.7	1 0.72 < 0.005 0 0 0	0.18 0.19 0 0	760 760 0 0	0.03 0.03 0 0	2.5 771 0 0
Total 0.4 0.37		0.01 < 0.005 0.7		0.18 0.19	760 760	0.03 0.03	2.5 771
Daily, Winter (Max)	0.01 0.07	0.04 + 0.005	1 0.72 < 0.005	0.40 0.40	740 740	0.00	0.00 700
Apartment 0.39 0.35 Enclosed F 0 0	0.31 2.87 0 0	0.01 < 0.005 0.7 0 0	0 0 0	0.18 0.19 0 0	718 718 0 0	0.03 0.03 0 0	0.06 728 0 0
		0.01 < 0.005 0.7		0.18 0.19	718 718	0.03 0.03	0.06 728
Annual	0.05 0.40 - 0.00		0 0 10 0 005	0.00	440 440	0.01 < 0.005	0.47 445
Apartment 0.07 0.06 Enclosed F 0 0	0.05 0.48 < 0.00		2 0.12 < 0.005 0 0 0	0.03 0.03	113 113 0 0		0.17 115 0 0
Total 0.07 0.06	0.05 0.48 < 0.00	0.005 < 0.005 0.1	.2 0.12 < 0.005	0.03 0.03	113 113	0.01 < 0.005	0.17 115
4.2. Energy							
4.2.1. Electricity Emissions By Land Us	e - Unmitigated						
Land Use TOG ROG NOx	CO SO ₂	PM10E PM10D	PM10T PM2.5E	PM2.5D PM2.5T BCO ₂	NBCO ₂ CO ₂ T	CH ₄ N ₂ O R	CO ₂ e
Daily, Summer (Max) Apartments Mid Rise					68.8 68.8	0.01 < 0.005	69.5
Enclosed Parking Structure						< 0.005 < 0.005	25.3
Total					93.9 93.9	0.02 < 0.005	94.8
Daily, Winter (Max) Apartments Mid Rise					68.8 68.8	0.01 < 0.005	69.5
Enclosed Parking Structure						< 0.005 < 0.005	25.3
Total					93.9 93.9	0.02 < 0.005	94.8
Annual							44.5
Apartments Mid Rise Enclosed Parking Structure						< 0.005 < 0.005 < 0.005 < 0.005	11.5 4.19
Total						< 0.005 < 0.005	15.7
400 Electricity Enviroine Protocidad	- Ministra						
4.2.2. Electricity Emissions By Land Us Land Use TOG ROG NOx	CO SO ₂	PM10E PM10D	PM10T PM2.5E	PM2.5D PM2.5T BCO ₂	NBCO, CO,T	CH₄ N₂O R	CO ₂ e
Daily, Summer (Max)	-			*			-
Apartments Mid Rise					68.8 68.8 25 25	0.01 < 0.005 < 0.005 < 0.005	69.5 25.3
Enclosed Parking Structure Total					93.9 93.9	0.02 < 0.005	94.8
Daily, Winter (Max)							
Apartments Mid Rise Enclosed Parking Structure					68.8 68.8 25 25	0.01 < 0.005 < 0.005 < 0.005	69.5 25.3
Total					93.9 93.9	0.02 < 0.005	94.8
Annual							
Apartments Mid Rise Enclosed Parking Structure						< 0.005 < 0.005 < 0.005 < 0.005	11.5 4.19
Total						< 0.005 < 0.005	15.7
4.2.3. Natural Gas Emissions By Land U Land Use TOG ROG NOx	Jse - Unmitigated CO SO ₂	PM10E PM10D	PM10T PM2.5E	PM2.5D PM2.5T BCO ₂	NBCO ₂ CO ₂ T	CH₄ N₂O R	CO ₂ e
Daily, Summer (Max)		THIC THID				5.14 H20 h	0020
Apartment 0 0	0 0	0 0	0 0	0	0 0	0 0	0
Enclosed F 0 0 Total 0 0	0 0 0 0	0 0 0 0	0 0	0	0 0 0 0	0 0 0 0	0
Daily, Winter (Max)			5 0	v	5 0	5 0	U
Apartment 0 0	0 0	0 0	0 0	0	0 0	0 0	0
Enclosed F 0 0 Total 0 0	0 0	0 0 0 0	0 0	0	0 0		0
Annual			5 0	v	5 0	5 0	U
Apartment 0 0	0 0	0 0	0 0	0	0 0		0
Enclosed F 0 0 Total 0 0	0 0 0 0	0 0 0 0	0 0	0	0 0 0 0		0
		5 0	5 0	U U	5 0	5 0	0
4.2.4. Natural Gas Emissions By Land L		DM405 DM45	DM10T D10 55				<u> </u>
Land Use TOG ROG NOX Daily, Summer (Max)	CO SO ₂	PM10E PM10D	PM10T PM2.5E	PM2.5D PM2.5T BCO ₂	NBCO ₂ CO ₂ T	CH ₄ N ₂ O R	CO ₂ e
Apartment 0 0	0 0	0 0	0 0	0	0 0	0 0	0
Enclosed F 0 0	0 0	0 0	0 0		0 0		0
Total 0 0 Daily, Winter (Max)	0 0	0 0	0 0	0	0 0	0 0	0
·····							

Apartment	0	0	0	0	0	0			0		0	0	0		0	0	0
Enclosed F Total	0 0	0 0	0	0 0	0 0	0 0			0 0		0 0	0 0	0 0		0 0	0 0	0 0
Annual	U	U	U	U	0	0		0	0		0	0	U		0	U	0
Apartment	0	0	0	0	0	0		0	0		0	0	0		0	0	0
Enclosed F	0	0	0	0	0	0		0	0		0	0	0		0	0	0
Total	0	0	0	0	0	0		0	0		0	0	0		0	0	0
4.2 Aron Emi	ccione but	Sourco															
4.3. Area Emi 4.3.1. Unmitig		Source															
Source TC		ROG N	IOx CO	SO ₂	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO ₂	NBCO ₂	CO₂T	CH₄	N ₂ O	R	CO ₂ e
Daily, Summe											-	•		-			-
Hearths	0	0	0	0	0	0		0	0		0	0 0	0		0	0	0
Consumer	0.39	0.39															
Architectu Landscape	0.07 0.2	0.07 0.19	0.01	1.64 < 0.005	< 0.005		< 0.005	< 0.005		< 0.005		5.17	E 17	< 0.005	< 0.005		5.19
Total	0.66	0.65	0.01	1.64 < 0.005			< 0.005	< 0.005		< 0.005		0 5.17		< 0.005	< 0.005		5.19
Daily, Winter																	
Hearths	0	0	0	0	0	0		0	0		0	0 0	0		0	0	0
Consumer	0.39	0.39															
Architectu	0.07	0.07															
Total	0.46	0.46	0	0	0	0		0	0		0	0 0	0		0	0	0
Annual Hearths	0	0	0	0	0	0		0	0		0	0 0	0		0	0	0
Consumer	0.07	0.07	0	Ū	0	0			•		•		Ū			0	Ū
Architectu	0.01	0.01															
Landscap€	0.02	0.02 <		0.15 < 0.005			< 0.005	< 0.005		< 0.005		0.42		< 0.005	< 0.005		0.42
Total	0.1	0.1 <	0.005	0.15 < 0.005	< 0.005		< 0.005	< 0.005		< 0.005		0 0.42	0.42	< 0.005	< 0.005		0.42
4.2.2 Mitigat	od																
4.3.2. Mitigate Source TC		ROG N	IOx CO	SO ₂	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO ₂	NBCO ₂	CO ₂ T	CH₄	N ₂ O	R	CO ₂ e
Daily, Summe		100 1	00 00	002	TTTTT	111100	111101	1112.02	1112.00	1112.01	6002	110002	0021	0114	1420	N	0020
Hearths	0	0	0	0	0	0		0	0		0	0 0	0		0	0	0
Consumer	0.39	0.39															
Architectu	0.07	0.07															
Landscape	0.2	0.19	0.01	1.64 < 0.005			< 0.005	< 0.005		< 0.005		5.17		< 0.005	< 0.005		5.19
Total Daily, Winter	0.66 (Max)	0.65	0.01	1.64 < 0.005	< 0.005		< 0.005	< 0.005		< 0.005		0 5.17	5.17	< 0.005	< 0.005		5.19
Hearths	0	0	0	0	0	0		0	0		0	0 0	0		0	0	0
Consumer	0.39	0.39															
Architectu	0.07	0.07															
Total	0.46	0.46	0	0	0	0		0	0		0	0 0	0		0	0	0
Annual	0	0	0	0	0	0		0	0		0	0 0	0		0	0	0
Hearths Consumer	0.07	0 0.07	U	U	U	0		U	0		0	0 0	U		0	U	U
Architectu	0.01	0.01															
Landscape																	
Lanuscape	0.02	0.02 <	0.005	0.15 < 0.005	< 0.005		< 0.005	< 0.005		< 0.005		0.42	0.42	< 0.005	< 0.005		0.42
Total	0.02 0.1		0.005 0.005	0.15 < 0.005 0.15 < 0.005			< 0.005 < 0.005	< 0.005 < 0.005		< 0.005 < 0.005		0.42 0 0.42		< 0.005 < 0.005	< 0.005 < 0.005		0.42 0.42
Total	0.1	0.1 <															
Total 4.4. Water En	0.1 nissions by	0.1 <															
Total 4.4. Water En 4.4.1. Unmitig	0.1 nissions by gated	0.1 < y Land Use	0.005	0.15 < 0.005	< 0.005	PM10D	< 0.005	< 0.005	PM2.5D	< 0.005		0 0.42	0.42	< 0.005	< 0.005	В	0.42
Total 4.4. Water En	0.1 nissions by gated DG R	0.1 < y Land Use		0.15 < 0.005		PM10D			PM2.5D		BCO ₂		0.42			R	
Total 4.4. Water En 4.4.1. Unmitig Land Use TC	0.1 nissions by gated DG R er (Max)	0.1 < y Land Use	0.005	0.15 < 0.005	< 0.005	PM10D	< 0.005	< 0.005	PM2.5D	< 0.005		0 0.42 NBCO ₂	0.42	< 0.005 CH ₄	< 0.005	R	0.42
Total 4.4. Water En 4.4.1. Unmitig Land Use TC Daily, Summe Apartments M Enclosed Part	0.1 nissions by gated DG R er (Max) Aid Rise	0.1 < y Land Use ROG N	0.005	0.15 < 0.005	< 0.005	PM10D	< 0.005	< 0.005	PM2.5D	< 0.005	BCO ₂	0 0.42 NBCO ₂ 1 2.08 0 0	0.42 CO ₂ T 3.18 0	< 0.005 CH ₄ 0.1	< 0.005 N ₂ O 1 < 0.005 0	R	0.42 CO ₂ e 6.82 0
Total 4.4. Water En 4.4.1. Unmitig Land Use TC Daily, Summe Apartments M Enclosed Part Total	0.1 nissions by gated DG R er (Max) 4id Rise king Struct	0.1 < y Land Use ROG N	0.005	0.15 < 0.005	< 0.005	PM10D	< 0.005	< 0.005	PM2.5D	< 0.005	BCO ₂	0 0.42 NBCO ₂ 1 2.08 0 0	0.42 CO ₂ T 3.18	< 0.005 CH ₄ 0.1	< 0.005 N ₂ O 1 < 0.005		0.42 CO ₂ e 6.82
Total 4.4. Water En 4.4.1. Unmitig Land Use TC Daily, Summe Apartments M Enclosed Parl Total Daily, Winter	0.1 nissions by gated DG R er (Max) Mid Rise king Struct (Max)	0.1 < y Land Use ROG N	0.005	0.15 < 0.005	< 0.005	PM10D	< 0.005	< 0.005	PM2.5D	< 0.005	BCO ₂ 1 1	0 0.42 NBCO ₂ 1 2.08 0 0 1 2.08	0.42 CO ₂ T 3.18 0 3.18	< 0.005 CH ₄ 0.1 0.1	< 0.005 N ₂ O 1 < 0.005 0 1 < 0.005		0.42 CO ₂ e 6.82 0 6.82
Total 4.4. Water En 4.4.1. Unmitig Land Use TC Daily, Summe Apartments M Enclosed Part Total	0.1 nissions by gated OG R er (Max) 4id Rise king Struct (Max) 4id Rise	0.1 < y Land Use ROG N ture	0.005	0.15 < 0.005	< 0.005	PM10D	< 0.005	< 0.005	PM2.5D	< 0.005	BCO ₂ 1 1	0 0.42 NBCO ₂ 1 2.08 0 0 1 2.08	0.42 CO ₂ T 3.18 0	< 0.005 CH ₄ 0.1 0.1	< 0.005 N ₂ O 1 < 0.005 0		0.42 CO ₂ e 6.82 0
Total 4.4. Water Em 4.4.1. Unmitij Land Use TC Daily, Summe Enclosed Pari Total Daily, Winter Apartments M	0.1 nissions by gated OG R er (Max) 4id Rise king Struct (Max) 4id Rise	0.1 < y Land Use ROG N ture	0.005	0.15 < 0.005	< 0.005	PM10D	< 0.005	< 0.005	PM2.5D	< 0.005	BCO ₂ 1 1	0 0.42 NBCO ₂ 1 2.08 0 0 1 2.08 1 2.08 0 0	0.42 CO ₂ T 3.18 0 3.18 3.18	< 0.005 CH ₄ 0.1 0.1 0.1	< 0.005 N ₂ O 1 < 0.005 0 1 < 0.005 1 < 0.005	0	0.42 CO ₂ e 6.82 0 6.82 6.82
Total 4.4. Water En 4.4.1. Unmitij Land Use TC Daily, Summe Apartments M Enclosed Pari Total Daily, Winter Apartments M Enclosed Pari	0.1 nissions by gated OG R er (Max) 4id Rise king Struct (Max) 4id Rise	0.1 < y Land Use ROG N ture	0.005	0.15 < 0.005	< 0.005	PM10D	< 0.005	< 0.005	PM2.5D	< 0.005	BCO ₂ 1 1 1	0 0.42 NBCO ₂ 1 2.08 0 0 1 2.08 1 2.08 0 0	0.42 CO ₂ T 3.18 0 3.18 3.18 0	< 0.005 CH ₄ 0.1 0.1 0.1	< 0.005 N ₂ O 1 < 0.005 0 1 < 0.005 1 < 0.005 0	0	0.42 CO ₂ e 6.82 6.82 6.82 0
Total 4.4. Water En 4.4.1. Unmitij Land Use TC Daily, Summe Apartments M Enclosed Pari Total Daily, Winter Apartments M Enclosed Pari Total Annual Apartments M	0.1 nissions by gated DG R er (Max) 4id Rise king Struct 4id Rise 4id Rise	0.1 < Y Land Use ROG N ture	0.005	0.15 < 0.005	< 0.005	PM10D	< 0.005	< 0.005	PM2.5D	< 0.005	BCO ₂ 1 1 1 1 0.1	0 0.42 NBCO ₂ 1 2.08 0 0 1 2.08 0 0 1 2.08 8 0.34	0.42 CO ₂ T 3.18 0 3.18 3.18 0 3.18 0.53	< 0.005 CH ₄ 0.1 0.1 0.1 0.1 0.0	< 0.005 N ₂ O 1 < 0.005 0 1 < 0.005 1 < 0.005 0 1 < 0.005 0 1 < 0.005	0	0.42 CO2e 6.82 0 6.82 0 6.82 0 6.82 1.13
Total 4.4. Water En 4.4.1. Unmitin Land Use TC Daily, Summe Apartments M Enclosed Parl Total Daily, Winter Apartments M Enclosed Parl Total Annual Apartments M Enclosed Parl	0.1 nissions by gated DG R er (Max) 4id Rise king Struct 4id Rise 4id Rise	0.1 < Y Land Use ROG N ture	0.005	0.15 < 0.005	< 0.005	PM10D	< 0.005	< 0.005	PM2.5D	< 0.005	BCO ₂ 1 1 1 1 0.1	0 0.42 NBCO ₂ 1 2.08 0 0 1 2.08 1 2.08 0 0 1 2.08 8 0.34 0 0 0 0	0.42 CO ₂ T 3.18 0 3.18 0 3.18 0 3.18 0 5.3 0	< 0.005 CH ₄ 0.1 0.1 0.1 0.1	< 0.005 N ₂ O 1 < 0.005 0 1 < 0.005 0 1 < 0.005 1 < 0.005 0 2 < 0.005 0	0	0.42 CO2e 6.82 0 6.82 0 6.82 0 6.82 1.13 0
Total 4.4. Water En 4.4.1. Unmitij Land Use TC Daily, Summe Apartments M Enclosed Pari Total Daily, Winter Apartments M Enclosed Pari Total Annual Apartments M	0.1 nissions by gated DG R er (Max) 4id Rise king Struct 4id Rise 4id Rise	0.1 < Y Land Use ROG N ture	0.005	0.15 < 0.005	< 0.005	PM10D	< 0.005	< 0.005	PM2.5D	< 0.005	BCO ₂ 1 1 1 1 0.1	0 0.42 NBCO ₂ 1 2.08 0 0 1 2.08 1 2.08 0 0 1 2.08 8 0.34 0 0 0 0	0.42 CO ₂ T 3.18 0 3.18 3.18 0 3.18 0.53	< 0.005 CH ₄ 0.1 0.1 0.1 0.1	< 0.005 N ₂ O 1 < 0.005 0 1 < 0.005 1 < 0.005 0 1 < 0.005 0 1 < 0.005	0	0.42 CO2e 6.82 0 6.82 0 6.82 0 6.82 1.13
Total 4.4. Water En 4.4.1. Unmitin Land Use TC Daily, Summe Apartments M Enclosed Parl Total Daily, Winter Apartments M Enclosed Parl Total Annual Apartments M Enclosed Parl	0.1 nissions by gated DG R er (Max) 4id Rise king Struct 4id Rise king Struct	0.1 < Y Land Use ROG N ture	0.005	0.15 < 0.005	< 0.005	PM10D	< 0.005	< 0.005	PM2.5D	< 0.005	BCO ₂ 1 1 1 1 0.1	0 0.42 NBCO ₂ 1 2.08 0 0 1 2.08 1 2.08 0 0 1 2.08 8 0.34 0 0 0 0	0.42 CO ₂ T 3.18 0 3.18 0 3.18 0 3.18 0 5.3 0	< 0.005 CH ₄ 0.1 0.1 0.1 0.1	< 0.005 N ₂ O 1 < 0.005 0 1 < 0.005 0 1 < 0.005 1 < 0.005 0 2 < 0.005 0	0	0.42 CO2e 6.82 0 6.82 0 6.82 0 6.82 1.13 0
Total 4.4. Water En 4.4.1. Unmitij Land Use TC Daily, Summe Apartments M Enclosed Part Total Daily, Winter Apartments M Enclosed Part Total Annual Apartments M Enclosed Part Total	0.1 nissions by gated DG R er (Max) 4id Rise king Struct 4id Rise king Struct 4id Rise king Struct	0.1 < vy Land Use ROG M ture ture	0.005	0.15 < 0.005 SO ₂	< 0.005	PM10D PM10D	< 0.005	< 0.005	PM2.5D PM2.5D	< 0.005	BCO ₂ 1 1 1 1 0.1	0 0.42 NBCO ₂ 1 2.08 0 0 1 2.08 1 2.08 1 2.08 8 0.34 0 0 8 0.34	0.42 CO ₂ T 3.18 0 3.18 0 3.18 0 3.18 0.53 0 0.53	< 0.005 CH ₄ 0.1 0.1 0.1 0.1	< 0.005 N ₂ O 1 < 0.005 0 1 < 0.005 0 1 < 0.005 1 < 0.005 0 2 < 0.005 0	0	0.42 CO2e 6.82 0 6.82 0 6.82 0 6.82 1.13 0
Total 4.4. Water Em 4.4.1. Unmitij Land Use TC Daily, Summe Apartments P Enclosed Pari Total Daily, Winter Apartments P Enclosed Pari Total Annual Apartments M Enclosed Pari Total 4.4.2. Mitigatt Land Use TC Daily, Summe	0.1 nissions by gated DG R er (Max) 4id Rise king Struct 4id Rise king Struct 4id Rise king Struct 0G R er (Max)	0.1 < vy Land Use ROG M ture ture	0.005 IOx CO	0.15 < 0.005 SO ₂	< 0.005		< 0.005 PM10T	< 0.005		< 0.005	BCO ₂ 1 1 1 0.1 0.3 BCO ₂	0 0.42 NBCO ₂ 1 2.08 0 0 0 1 2.08 1 2.08 0 0 0 1 2.08 8 0.34 0 0 0 8 0.34 NBCO ₂	0.42 CO ₂ T 3.18 0 3.18 0 3.18 0 0.53 0 0.53 CO ₂ T	< 0.005 CH ₄ 0.1 0.1 0.1 0.0 0.0 CH ₄	< 0.005 N ₂ O 1 < 0.005 0 1 < 0.005 0 1 < 0.005 0 1 < 0.005 0 2 < 0.005 0 2 < 0.005 0 2 < 0.005	0 0	0.42 CO2e 6.82 0 6.82 0 6.82 1.13 0 1.13 CO2e
Total 4.4. Water En 4.4.1. Unmitij Land Use TC Daily, Summe Apartments N Enclosed Part Total Daily, Winter Apartments N Enclosed Part Total Annual Apartments N Enclosed Part Total 4.4.2. Mitigat Land Use TC Daily, Summe Apartments N	0.1 nissions by gated OG R er (Max) 41d Rise king Struct 41d Rise king Struct 41d Rise 41d Rise 0G R er (Max) 41d Rise	0.1 < NOG N ture ture ture	0.005 IOx CO	0.15 < 0.005 SO ₂	< 0.005		< 0.005 PM10T	< 0.005		< 0.005	BCO ₂ 1 1 1 0.1 0.3 BCO ₂ 1	0 0.42 NBCO ₂ 1 2.08 0 0 0 1 2.08 1 2.08 0 0 1 2.08 8 0.34 0 0 8 0.34 NBCO ₂ 1 2.08	0.42 CO ₂ T 3.18 0 3.18 0.53 0 0.53 CO ₂ T 3.18	< 0.005 CH ₄ 0.1 0.1 0.1 0.0 0.0 CH ₄ 0.1	<0.005 N ₂ O 1 <0.005 0 1 <0.005 0 1 <0.005 0 2 <0.005 0 2 <0.005 N ₂ O 1 <0.005	0 0 0 R	0.42 CO2e 6.82 0 6.82 0 6.82 1.13 0 1.13 0 1.13 CO2e 6.82
Total 4.4. Water En 4.4.1. Unmitig Land Use TC Daily, Summe Apartments M Enclosed Part Total Daily, Winter Apartments M Enclosed Part Total 4.4.2. Mitigate Land Use TC Daily, Summe	0.1 nissions by gated OG R er (Max) 41d Rise king Struct 41d Rise king Struct 41d Rise 41d Rise 0G R er (Max) 41d Rise	0.1 < NOG N ture ture ture	0.005 IOx CO	0.15 < 0.005 SO ₂	< 0.005		< 0.005 PM10T	< 0.005		< 0.005	BCO ₂ 1 1 1 1 0.1 8CO ₂ 1	0 0.42 NBCO ₂ 1 2.08 0 0 1 2.08 0 0 1 2.08 8 0.34 0 0 8 0.34 NBCO ₂ 1 2.08 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.42 CO ₂ T 3.18 0 3.18 0.318 0.53 0 0.53 CO ₂ T 3.18 0	< 0.005 CH ₄ 0.1 0.1 0.1 0.0 0.0 CH ₄ 0.1	< 0.005 N_2O 1 < 0.005 1 < 0.005 0 < 0 < 0 < 0.005 0 < 0 < 0 < 0.005	0 0	0.42 CO2e 6.82 0 6.82 0 6.82 0 6.82 1.13 0 1.13 CO2e 6.82 0
Total 4.4. Water En 4.4.1. Unmitij Land Use TC Daily, Summe Apartments M Enclosed Pari Total Daily, Winter Apartments M Enclosed Pari Total 4.4.2. Mitigati Land Use TC Daily, Summe Apartments M Enclosed Pari Total	0.1 nissions by gated DG R er (Max) 4id Rise king Struct 4id Rise king Struct ed DG R er (Max) 4id Rise king Struct	0.1 < NOG N ture ture ture	0.005 IOx CO	0.15 < 0.005 SO ₂	< 0.005		< 0.005 PM10T	< 0.005		< 0.005	BCO ₂ 1 1 1 0.1 0.3 BCO ₂ 1	0 0.42 NBCO ₂ 1 2.08 0 0 1 2.08 0 0 1 2.08 8 0.34 0 0 8 0.34 NBCO ₂ 1 2.08 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.42 CO ₂ T 3.18 0 3.18 0.53 0 0.53 CO ₂ T 3.18	< 0.005 CH ₄ 0.1 0.1 0.1 0.0 0.0 CH ₄ 0.1	<0.005 N ₂ O 1 <0.005 0 1 <0.005 0 1 <0.005 0 2 <0.005 0 2 <0.005 N ₂ O 1 <0.005	0 0 0 R	0.42 CO2e 6.82 0 6.82 0 6.82 1.13 0 1.13 0 1.13 CO2e 6.82
Total 4.4. Water En 4.4.1. Unmitig Land Use TC Daily, Summe Apartments M Enclosed Part Total Daily, Winter Apartments M Enclosed Part Total 4.4.2. Mitigate Land Use TC Daily, Summe	0.1 nissions by gated DG R er (Max) 4id Rise king Struct 4id Rise king Struct 4id Rise ed DG R er (Max) 4id Rise king Struct (Max) 4id Rise	0.1 < NOG N ture ture ture	0.005 IOx CO	0.15 < 0.005 SO ₂	< 0.005		< 0.005 PM10T	< 0.005		< 0.005	BCO ₂ 1 1 1 1 0.1 8CO ₂ 1	0 0.42 NBCO ₂ 1 2.08 0 0 0 1 2.08 1 2.08 0 0 0 1 2.08 8 0.34 NBCO ₂ 1 2.08 0 0 0 1 2.08	0.42 CO ₂ T 3.18 0 3.18 0.318 0.53 0 0.53 CO ₂ T 3.18 0	< 0.005 CH ₄ 0.1 0.1 0.1 0.0 0.0 CH ₄ 0.1	< 0.005 N_2O 1 < 0.005 1 < 0.005 0 < 0 < 0 < 0.005 0 < 0 < 0 < 0.005	0 0 0 R	0.42 CO2e 6.82 0 6.82 0 6.82 0 6.82 1.13 0 1.13 CO2e 6.82 0
Total 4.4. Water En 4.4.1. Unmitij Land Use TC Daily, Summe Apartments M Enclosed Part Total Annual Apartments M Enclosed Part Total 4.4.2. Mitigate Land Use TC Daily, Summe Apartments M Enclosed Part Total Daily, Winter Apartments M Enclosed Part Total Daily, Winter Apartments M Enclosed Part	0.1 nissions by gated OG R er (Max) 4id Rise king Struct 4id Rise king Struct 4id Rise ed DG R er (Max) 4id Rise king Struct (Max) 4id Rise	0.1 < vy Land Use ROG M ture ture ROG M ture	0.005 IOx CO	0.15 < 0.005 SO ₂	< 0.005		< 0.005 PM10T	< 0.005		< 0.005	BCO ₂ 1 1 1 1 0.1 0.1 BCO ₂ 1 1 1	0 0.42 NBCO ₂ 1 2.08 0 0 1 2.08 0 0 1 2.08 8 0.34 0 0 8 0.34 NBCO ₂ 1 2.08 0 0 1 2.08 0 0 1 2.08 0 0 1 2.08 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.42 CO ₂ T 3.18 0 3.18 0.53 0 0.53 CO ₂ T 3.18 0 3.18 0 3.18 0 3.18	< 0.005 CH ₄ 0.1 0.1 0.1 0.1 0.0 0.0 CH ₄ 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	< 0.005 N_2O 1 < 0.005 1 < 0.005 1 < 0.005 1 < 0.005 1 < 0.005 1 < 0.005 N_2O 1 < 0.005 1 < 0.005 1 < 0.005 1 < 0.005 1 < 0.005 1 < 0.005 1 < 0.005 0	0 0 0 R	0.42 CO2e 6.82 0 6.82 0 6.82 0 6.82 1.13 0 1.13 0 1.13 CO2e 6.82 0 6.82 0 6.82 0 6.82 0
Total 4.4. Water Ent 4.4.1. Unmitij Land Use TC Daily, Summe Apartments M Enclosed Parl Total Daily, Winter Apartments M Enclosed Parl Total 4.4.2. Mitigati Land Use TC Daily, Summe Apartments M Enclosed Parl Total 4.4.2. Mitigati Land Use TC Daily, Summe Apartments M Enclosed Parl Total Daily, Summe Apartments M Enclosed Parl Total Daily, Winter Apartments M Enclosed Parl Total	0.1 nissions by gated OG R er (Max) 4id Rise king Struct 4id Rise king Struct 4id Rise ed DG R er (Max) 4id Rise king Struct (Max) 4id Rise	0.1 < vy Land Use ROG M ture ture ROG M ture	0.005 IOx CO	0.15 < 0.005 SO ₂	< 0.005		< 0.005 PM10T	< 0.005		< 0.005	BCO ₂ 1 1 1 1 0.1 0.3 BCO ₂ 1 1	0 0.42 NBCO ₂ 1 2.08 0 0 1 2.08 0 0 1 2.08 8 0.34 0 0 8 0.34 NBCO ₂ 1 2.08 0 0 1 2.08 0 0 1 2.08 0 0 1 2.08 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.42 CO ₂ T 3.18 0 3.18 0.53 0 0.53 CO ₂ T 3.18 0 3.18 3.18	< 0.005 CH ₄ 0.1 0.1 0.1 0.1 0.0 0.0 CH ₄ 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	<0.005 N ₂ O 1 <0.005 0 1 <0.005 0 1 <0.005 0 2 <0.005 0 2 <0.005 0 1 <0.005 0 1 <0.005 1 <0.005 1 <0.005	0 0 R 0	0.42 CO2e 6.82 0 6.82 0 6.82 1.13 0 1.13 CO2e 6.82 0 6.82 0 6.82 0 6.82
Total 4.4. Water En 4.4.1. Unmitij Land Use TC Daily, Summe Apartments P Enclosed Pari Total Annual Apartments P Enclosed Pari Total 4.4.2. Mitigat Land Use TC Daily, Summe Apartments M Enclosed Pari Total 4.4.2. Mitigat Land Use TC Daily, Summe Apartments M Enclosed Pari Total Daily, Winter Apartments M Enclosed Pari Total Daily, Summe Apartments M Enclosed Pari Total Daily, Winter Apartments M Enclosed Pari Total Daily, Winter Apartments M Enclosed Pari Total Daily, Winter Apartments M Enclosed Pari Total Daily, Winter Apartments M Enclosed Pari Total Daily, Minter Apartments M Enclosed Pari Total	0.1 nissions by gated DG R er (Max) 4id Rise king Struct 4id Rise king Struct 4id Rise ed DG R er (Max) 4id Rise king Struct (Max) 4id Rise king Struct	0.1 < vy Land Use ROG M ture ture ROG M ture	0.005 IOx CO	0.15 < 0.005 SO ₂	< 0.005		< 0.005 PM10T	< 0.005		< 0.005	BCO ₂ 1 1 1 1 0.1 0.1 0.1 BCO ₂ 1 1 1 1	0 0.42 NBCO ₂ 1 2.08 0 0 0 1 2.08 1 2.08 0 0 0 1 2.08 8 0.34 NBCO ₂ 1 2.08 0 0 0 1 2.08 1 2.08 0 0 0 1 2.08 1 2.08	0.42 CO ₂ T 3.18 0 3.18 0 3.18 0 0.53 0 0.53 CO ₂ T 3.18 0 3.18 3.18 0 3.18	< 0.005 CH ₄ 0.1 0.1 0.1 0.0 0.0 CH ₄ 0.1 0.1 0.1 0.1	< 0.005 N_2O 1 < 0.005 0 1 < 0.005 1 < 0.005 1 < 0.005 0 2 < 0.005 N_2O 1 < 0.005 1 < 0.005	0 0 R 0	0.42 CO2e 6.82 0 6.82 0 6.82 1.13 0 1.13 CO2e 6.82 0 0 6.82 0 0 6.82 0 0 6.82 0 0 6.82 0 0 6.82 0 0 6.82 0 0 6.82 0 0 6.82 0 0 6.82 0 0 6.82 0 0 6.82 0 0 6.82 0 0 0 0 0 0 0 0 0 0 0 0 0
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Grading	Site Prepai	-		20				
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STARTE TOTAL TO TTE LONGED TO A		Unsite truc						
	Grading			11 7		I DT2		
	rading			11.7	LDA,LDT1,	LDT2		

Subtotal

-	Vendor			HHDT,MHDT
Grading	-	0	20	HHDT
Grading	Onsite tru			HHDT
Building C			11 7	
Building C Building C		19.1 4.13		LDA,LDT1,LDT2 HHDT,MHDT
Building C		4.13		HHDT
Building C	-		20	HHDT
Paving				
Paving	Worker	17.5	11.7	LDA,LDT1,LDT2
Paving	Vendor		8.4	HHDT,MHDT
Paving	Hauling	0	20	HHDT
-	Onsite tru			HHDT
Architectu		0		
Architectu		3.81		LDA,LDT1,LDT2
Architectu Architectu		0		HHDT,MHDT
Architectu			20	HHDT HHDT
Architectu	Onsite tri	JUK		
5.3.2. Miti	ated			
		One-Way T N	1iles per T	Vehicle Mix
Demolition				
Demolition	Worker	10	11.7	LDA,LDT1,LDT2
Demolitior	Vendor		8.4	HHDT,MHDT
Demolition	Hauling	1.64	20	HHDT
Demolition		uck		HHDT
Site Prepa				
Site Prepa		5		LDA,LDT1,LDT2
Site Prepa				HHDT,MHDT
Site Prepa		0	20	HHDT
Site Prepa	Onsite tru	uck		HHDT
Grading	Markor	7.5	11 7	
Grading Grading		7.5		LDA,LDT1,LDT2 HHDT,MHDT
Grading		0		HHDT
-	Onsite tru		20	HHDT
Building C				
Building C		19.1	11.7	LDA,LDT1,LDT2
Building C		4.13		HHDT,MHDT
Building C	Hauling	0	20	HHDT
Building C	Onsite tru	uck		HHDT
Paving				
Paving	Worker	17.5	11.7	LDA,LDT1,LDT2
Paving	Vendor			HHDT,MHDT
	Hauling	0	20	HHDT
-	Onsite tru			HHDT
Architectu		-	11 7	
Architectu Architectu		3.81		LDA,LDT1,LDT2 HHDT,MHDT
Architectu		0		HHDT
Architectu			20	HHDT
Alemicetu	onsite tre	JOK		
5.4. Vehicl	es			
5.4.1. Con	struction	Vehicle Contro	ol Strategi	es
Control St	PM10 Red	dı PM2.5 Redu	ction	
5.5. Archit				
				Non-Resid Parking Area Coated (sq ft)
Architectu	36936	6 12312	0	0
5.6. Dust N		Earthmoving A	ativitiaa	
		0		Material DI Acres Paved (acres)
Demolition				
Site Prepa		0 0	2	
Grading	uuon		6	
Paving	(0 0	0	
			-	
5.6.2. Con	struction I	Earthmoving C	ontrol Str	ategies
		y PM10 Redi F		
5.7. Const	ruction Pa	iving		
		ec % Asphalt		
Apartment				
Apartment				
Enclosed F		0 100		
Enclosed F	. (0 100		
5.8 Const	ruction Ele	actricity Cone	imption a	nd Emissions Factors
Year	kWh per \		CH4	N2O
2025		0 204		< 0.005
2025		0 204 0 204		< 0.005
2020			2.00	
5.9. Opera	tional Mot	oile Sources		
5.9.1. Unm				
		el Trips/Satu T	rips/Sunc	Trips/Year VMT/Week VMT/Satur VMT/Sund; VMT/Year
Apartment	70.	7 63.8	53.2	24538 695 628 523 241322

Apartment	32.6	29.5	24.5	11325	321 2	290	241	111379
Enclosed F	0	0	0	0	0	0	0	0
Enclosed F	0	0	0	0	0	0	0	0
Linotobouri	Ũ	0	Ŭ		0	0	Ū	Ŭ
5.9.2. Mitigate	he							
-		s/Satu Tri	ns/Sunc T	rins/Vear	VMT/Week VMT/S	atur VM	T/Sund: \	/MT/Vear
Apartment	70.7	63.8	53.2	24538		528	523	241322
Apartment								
•	32.6	29.5	24.5	11325		290	241	111379
Enclosed F	0	0	0	0	0	0	0	0
Enclosed F	0	0	0	0	0	0	0	0
5.10. Operatio 5.10.1. Hearth		urces						
5.10.1.1. Unm	itigated							
Hearth Typ Un	mitigated (r	umber)						
Apartments M		,						
Wood Fire	0							
Gas Firepla	0							
Propane Fi	0							
Electric Fir	0							
	0							
No Firepla	0							
Wood Fire								
Gas Firepla	0							
Propane Fi	0							
Electric Fir	0							
No Firepla	0							
Conventio	0							
Catalytic V	0							
Non-Catal	0							
Pellet Woo	0							
Conventio	0							
Catalytic V	0							
Non-Catal	0							
Pellet Woo	0							
5.10.1.2. Mitig	ated							
Hearth Typ Un	mitigated (r	umber)						
Apartments M	id Rise							
Wood Fire	0							
Gas Firepla	0							
Propane Fi	0							
Electric Fir	0							
No Firepla	0							
Wood Fire	0							
Gas Firepla	0							
Propane Fi	0							
Electric Fir	0							
No Firepla	0							
Conventio	0							
Catalytic V	0							
Non-Catal	0							
Pellet Woo	0							
Conventio	0							
Catalytic V	0							
Non-Catal	0							
Pellet Woo	0							
5.10.2. Archite Residentia Re 36936			n-Resid F 0	Parking Are	ea Coated (sq ft)			
5.10.3. Lands								
Season Un								
Snow Days day		0						
Summer D day	y/yr	180						
E 10 4 J	one Fault	oont Mar	(atod					
5.10.4. Lands Season Un			สเซนิ					
		0						
Snow Days day Summer D day		180						
Summer D ua	y/ y1	100						
5.11. Operatio	nal Energy	Consumpti	on					
5.11.1. Unmit		omoumpu	011					
Land Use Ele		2 CH	14 N	120	Natural Gas (kBTL	l/vr)		
Apartment		2 07	0.033	0.004	0			
	38902	204	0.033	0.004	0			
Enclosed F		204	0.033		0			
Enclosed F		204	0.033		0			
Enclosed F	11200	204	0.033	0.004	U			
5.11.2. Mitigat	ted							
Land Use Ele		2 ^-	14	120	Natural Gas (kBTL	J/vr1		
Apartment	84288	2 07	0.033	0.004	0			
Apartment	84288 38902	204	0.033		0			
Enclosed F	33614	204	0.033	0.004	0			
Enclosed F	33614 11205	204 204	0.033	0.004	0			
Encloacu r	11200	204	0.000	0.004	0			
5.12. Operatio	onal Water a	nd Wastev	vater Con	sumption				
operation								

Apartment		Outdoor W 0	'ater (gal/y	vear)				
Apartment		0						
Enclosed F								
Enclosed F		0						
5.12.2. Mitig	ated	-						
Land Use I		Outdoor W	'ater (gal/y	/ear)				
Apartment		0						
Apartment		0						
Enclosed F								
Enclosed F	0	0						
5.13. Operat 5.13.1. Unm	itigated							
Land Use V		Cogenerat	ion (kWh/	year)				
Apartment	9.55							
Apartment								
Enclosed F								
Enclosed F	0							
5.13.2. Mitig	atod							
Land Use V		Cogonorat	ion (WMb/	(0.01)				
Apartment		Cogenerat		yeary				
Apartment	4.31							
Enclosed F	4.51							
Enclosed F	0							
Linetoseu i	0							
5.14. Operat		igeration a	nd Air Con	ditioning	Equip	oment		
5.14.1. Unm	0	Dofrigoron	CWD	Quantit		noration	Sonvice Le	Timos Sonvicod
Land Use TE Apartment A						2.5	2.5	Times Serviced 10
	-		2080	3 < 0.005	12	2.5		10
Apartment H				3 < 0.005		2.5		10
Apartment A Apartment H	-						2.5	10
Apartment	lousenoid	R-134a	1430	J 0.	12	0.6	0	1
5.14.2. Mitig Land Use T E		Refrigeran	GWP	Quanti	y (k O	peration	Service Lea	Times Serviced
Apartment A	verage ro	R-410A	2088	3 < 0.005		2.5	2.5	10
Apartment H	lousehold	R-134a	1430	0 0	12	0.6	0	1
Apartment A				3 < 0.005		2.5		10
Apartment H	lousehold	R-134a	1430	0 0	12	0.6	0	1
5.15. Operat 5.15.1. Unm		Road Equip	ment					
Equipment F								
	uel Type	Engine Tie	Number p	Hours F	er H	orsepow	Load Facto	r
	uel Type	Engine Tie	Number p	e Hours F	Per H	orsepow	Load Facto	r
5.15.2. Mitig Equipment F	ated							
5.15.2. Mitig Equipment F	ated uel Type	Engine Tie						
5.15.2. Mitig	ated uel Type nary Sourc rgency Ge	Engine Tie es nerators ar	Number p nd Fire Pur	o: Hours F nps	Per H	orsepow	Load Facto	r
5.15.2. Mitig Equipment F 5.16. Statior 5.16.1. Eme	ated uel Type nary Sourc rgency Ge	Engine Tie es nerators ar	Number p nd Fire Pur	o: Hours F nps	Per H	orsepow	Load Facto	r
5.15.2. Mitig Equipment F 5.16. Statior 5.16.1. Eme	ated Fuel Type hary Sourc rgency Ge Fuel Type ess Boiler	Engine Tie es nerators ar Number pe s	Number p nd Fire Pur Hours pe	o: Hours F nps r Hours f	Per H	orsepow orsepow	Load Facto	r
5.15.2. Mitig Equipment F 5.16. Statior 5.16.1. Eme Equipment F 5.16.2. Proc Equipment F	ated Guel Type nary Sourc rgency Ge Guel Type ess Boiler Guel Type	Engine Tie es nerators ar Number pe s	Number p nd Fire Pur Hours pe	o: Hours F nps r Hours f	Per H	orsepow orsepow	Load Facto Load Facto	r
5.15.2. Mitig Equipment F 5.16. Statior 5.16.1. Eme Equipment F 5.16.2. Proc	ated iuel Type nary Sourc rgency Ge iuel Type ess Boiler iuel Type efined	Engine Tie es nerators ar Number pe s	Number p nd Fire Pur Hours pe	o: Hours F nps r Hours f	Per Ho Der Ho	orsepow orsepow	Load Facto Load Facto	r
5.15.2. Mitig Equipment F 5.16. Statior 5.16.1. Eme Equipment F 5.16.2. Proc Equipment F 5.17. User D Equipment F	iated iuel Type nary Sourc rgency Ge iuel Type ess Boiler iuel Type efined iuel Type	Engine Tie es nerators ar Number pe s	Number p nd Fire Pur Hours pe	o: Hours F nps r Hours f	Per Ho Der Ho	orsepow orsepow	Load Facto Load Facto	r
5.15.2. Mitig Equipment F 5.16. Statior 5.16.1. Eme Equipment F 5.16.2. Proc Equipment F 5.17. User D Equipment F 5.18. Vegeta	ated Fuel Type nary Source rgency Ge Fuel Type ess Boiler Fuel Type refined Fuel Type ttion	Engine Tie es nerators ar Number po S Number	Number p nd Fire Pur Hours pe	o: Hours F nps r Hours f	Per Ho Der Ho	orsepow orsepow	Load Facto Load Facto	r
5.15.2. Mitig Equipment F 5.16. Station 5.16.1. Eme Equipment F 5.16.2. Proc Equipment F 5.17. User D Equipment F 5.18. Vegetz 5.18.1. Lanc	ated Fuel Type nary Source rgency Ge fuel Type ess Boiler Fuel Type efined fuel Type tition I Use Char	Engine Tier es nerators ar Number po s Number	Number p nd Fire Pur Hours pe	o: Hours F nps r Hours f	Per Ho Der Ho	orsepow orsepow	Load Facto Load Facto	r
5.15.2. Mitig Equipment F 5.16. Statior 5.16.1. Eme Equipment F 5.16.2. Proc Equipment F 5.17. User D Equipment F 5.18. Vegeta 5.18.1. Lanc 5.18.1.1. Un	ated ivel Type nary Source rgency Ge ivel Type ess Boiler ivel Type refined ivel Type ation I Use Char mitigated	Engine Tier es nerators ar Number po s Number	Number p nd Fire Pur Hours pe Boiler Rat	nps r Hours f ti Daily H	Per Ho Der Ho	orsepow orsepow	Load Facto Load Facto	r
5.15.2. Mitig Equipment F 5.16. Station 5.16.1. Eme Equipment F 5.16.2. Proc Equipment F 5.17. User D Equipment F 5.18. Vegetz 5.18.1. Lanc	ated ivel Type nary Source rgency Ge ivel Type ess Boiler ivel Type refined ivel Type ation I Use Char mitigated	Engine Tier es nerators ar Number po s Number	Number p nd Fire Pur Hours pe Boiler Rat	nps r Hours f ti Daily H	Per Ho Der Ho	orsepow orsepow	Load Facto Load Facto	r
5.15.2. Mitig Equipment F 5.16. Statior 5.16.1. Eme Equipment F 5.16.2. Proc Equipment F 5.17. User D Equipment F 5.18. Vegeta 5.18.1. Lanc 5.18.1.1. Un	ated iuel Type nary Sourco rgency Ge iuel Type ess Boiler iuel Type efined iuel Type etion I Use Char mitigated (egetation	Engine Tier es nerators ar Number po s Number nge Initial Acre	Number p nd Fire Pur Hours pe Boiler Rat	nps r Hours f ti Daily H	Per Ho Der Ho	orsepow orsepow	Load Facto Load Facto	r
5.15.2. Mitig Equipment F 5.16. Statior 5.16.1. Eme Equipment F 5.16.2. Proc Equipment F 5.17. User D Equipment F 5.18. Vegeta 5.18.1. Jun Vegetation V 5.18.1.2. Mit Vegetation V	ated inel Type many Source rgency Ge inel Type ess Boiler inel Type effined inel Type tition I Use Chair mitigated regetation tigated	Engine Tiel es nerators ar Number po s Number nge Initial Acre	Number p nd Fire Pur Hours pe Boiler Rat	nps r Hours f ti Daily H	Per Ho Der Ho	orsepow orsepow	Load Facto Load Facto	r
5.15.2. Mitig Equipment F 5.16. Statior 5.16.1. Eme Equipment F 5.16.2. Proc Equipment F 5.17. User D Equipment F 5.18. Vegeta 5.18.1. Lanc 5.18.1.1. Un Vegetation V 5.18.1.2. Mit	ated ivel Type nary Source rgency Ge ivel Type ess Boiler ivel Type effined ivel Type tition Use Char mitigated /egetation tigated /egetation nass Cove mitigated	Engine Tie es nerators ar Number po s Number nge Initial Acre Initial Acre	Number p nd Fire Pur Hours pe Boiler Rat Final Acre Final Acre	nps r Hours f ti Daily H	Per Ho Der Ho	orsepow	Load Facto Load Facto	r
5.15.2. Mitig Equipment F 5.16. Station 5.16.1. Eme Equipment F 5.16.2. Proc Equipment F 5.17. User D Equipment F 5.18. Vegeta 5.18.1. Lanc 5.18.1.1. Un Vegetation V 5.18.1.2. Mit Vegetation V 5.18.1.3. Bion 5.18.1.1. Un	ated ivel Type nary Source rgency Ge ivel Type ess Boiler ivel Type effined ivel Type tition Use Char mitigated /egetation tigated /egetation nass Cove mitigated	Engine Tie es nerators ar Number po s Number nge Initial Acre Initial Acre	Number p nd Fire Pur Hours pe Boiler Rat Final Acre Final Acre	nps r Hours f ti Daily H	Per Ho Der Ho	orsepow	Load Facto Load Facto	r
5.15.2. Mitig Equipment F 5.16. Station 5.16.1. Eme Equipment F 5.16.2. Proc Equipment F 5.17. User D Equipment F 5.18. Vegeta 5.18.1. Lanc 5.18.1.1. Un Vegetation V 5.18.1.2. Mit Vegetation V 5.18.1.3. Bion 5.18.1.1. Un	ated inel Type hary Source rgency Ge inel Type ess Boiler inel Type etfined inel Type tion I Use Char mitigated regetation tigated regetation tigated regetation tigated initial Acre tigated	Engine Tie es nerators ar Number pr s Number nge Initial Acre Initial Acre Final Acres	Number p nd Fire Pur Hours pe Boiler Rat Final Acre Final Acre	nps r Hours f ti Daily H	Per Ho Der Ho	orsepow	Load Facto Load Facto	r
5.15.2. Mitig Equipment F 5.16. Statior 5.16.1. Eme Equipment F 5.16.2. Proc Equipment F 5.17. User D Equipment F 5.18. Vegeta 5.18.1. Lanc 5.18.1.2. Mi Vegetation V 5.18.1.2. Mi Biomass C II 5.18.1.2. Mi	ated inel Type hary Source rgency Ge inel Type ess Boiler inel Type effined inuel Type titon Use Char mitigated (egetation hass Cove mitigated hitial Acre tigated hitial Acre	Engine Tie es nerators ar Number pr s Number nge Initial Acre Initial Acre Final Acres	Number p nd Fire Pur Hours pe Boiler Rat Final Acre Final Acre	nps r Hours f ti Daily H	Per Ho Der Ho	orsepow	Load Facto Load Facto	r
5.15.2. Mitig Equipment F 5.16. Station 5.16.1. Eme Equipment F 5.16.2. Proc Equipment F 5.17. User D Equipment F 5.18. Vegeta 5.18.1. Lon Vegetation V 5.18.1.2. Mi Biomass C II 5.18.2. Seq	ated ivel Type orany Source regency Ge ivel Type ess Boiler ivel Type effined ivel Type tition Use Chair mitigated regetation itigated regetation itigated regetation initial Acre tigated initial Acre uestration	Engine Tie es nerators ar Number pr s Number nge Initial Acree Final Acree Final Acree	Number p nd Fire Pur Hours pe Boiler Rat Final Acre Final Acre	nps r Hours f ti Daily H	Per Ho Der Ho	orsepow	Load Facto Load Facto	r
5.15.2. Mitig Equipment F 5.16. Statior 5.16.1. Eme Equipment F 5.16.2. Proc Equipment F 5.17. User D Equipment F 5.18.1. Une S.18.1.2. Mi Vegetation V 5.18.1.2. Mi Biomass C II 5.18.2. Mi Biomass C II 5.18.2. Seq 5.18.2. Lun	ated ivel Type for any Source rgency Ge ivel Type ess Boiler ivel Type etfined ivel Type tion I Use Char mitigated /egetation tigated /egetation tigated nitial Acre tigated nitial Acre estration mitigated	Engine Tiel es nerators ar Number pr s Number nge Initial Acre Initial Acre Final Acres Final Acres	Number p Ind Fire Pur Hours pe Boiler Rat Final Acre Final Acre	n Hours I mps r Hours I ti Daity H 25 25	Per H	orsepow	Load Facto Load Facto	r
5.15.2. Mitig Equipment F 5.16. Station 5.16.1. Eme Equipment F 5.16.2. Proc Equipment F 5.17. User D Equipment F 5.18. Vegeta 5.18.1. Lon Vegetation V 5.18.1.2. Mi Biomass C II 5.18.2. Seq	ated ivel Type for any Source rgency Ge ivel Type ess Boiler ivel Type etfined ivel Type tion I Use Char mitigated /egetation tigated /egetation tigated nitial Acre tigated nitial Acre estration mitigated	Engine Tiel es nerators ar Number pr s Number nge Initial Acre Initial Acre Final Acres Final Acres	Number p Ind Fire Pur Hours pe Boiler Rat Final Acre Final Acre	n Hours I mps r Hours I ti Daity H 25 25	Per H	orsepow	Load Facto Load Facto	r
S.15.2. Mitig Equipment F S.16. Station S.16.1. Eme Equipment F S.16.2. Proc Equipment F S.17. User D Equipment F S.18. Vegeta S.18.1. Lon S.18.1.2. Mi Vegetation V S.18.1.2. Mi Biomass C II S.18.2.2. Mi S.18.2.2. Mi	ated ivel Type orany Sourco rgency Ge ivel Type ess Boiler ivel Type effined ivel Type titon Use Chain mitigated (egetation itigated regetation initial Acre tigated nitial Acre uestration mitigated lumber tigated	Engine Tie es nerators ar Number pr s Number nge Initial Acree Final Acree Final Acree Electricity	Number p d Fire Pur Hours pe Boiler Rat Final Acre Final Acre S	n Hours I nps r Hours I ti Daily H 25 25 25	(btu/y	orsepow orsepow nnual Hea	Load Facto Load Facto	r
5.15.2. Mitig Equipment F 5.16. Statior 5.16.1. Eme Equipment F 5.16.2. Proc Equipment F 5.17. User D Equipment F 5.18. Vegeta 5.18.1. Lanc 5.18.1.1. Un Vegetation V 5.18.1.2. Mit Biomass C II 5.18.1.2. Mit Biomass C II 5.18.2. Seq 5.18.2.1. Un Tree Type N	ated ivel Type orany Sourco rgency Ge ivel Type ess Boiler ivel Type effined ivel Type titon Use Char mitigated (egetation itigated regetation initial Acre tigated nitial Acre uestration mitigated lumber tigated	Engine Tiel es nerators ar Number pr s Number nge Initial Acre Initial Acre Final Acres Final Acres	Number p d Fire Pur Hours pe Boiler Rat Final Acre Final Acre S	n Hours I nps r Hours I ti Daily H 25 25 25	(btu/y	orsepow orsepow nnual Hea	Load Facto Load Facto	r

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 conti Climate H: Result for I Unit

Temperatu 7.19 annual days of extreme heat

Extreme Pr 8.75 annual days with precipitation above 20 mm

Sea Level Rise meters of inundation depth

Wildfire 6.01 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 clim Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about % an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain 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 (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and du 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, populati

6.2. Initial Climate Risk Scores

Climate H: Exposure S Sensitivity Adaptive C Vulnerability Score

Temperatu	N/A		N/A		N/A		N/A
Extreme Pr		3		0		0	N/A
Sea Level F		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	N/A		N/A		N/A		N/A
Air Quality		0		0		0	N/A
The consist			ofloatot		outont to		aiah a praia

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 ada 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 Ha Expo	osure & Sensi	tivity Adapt	ive C Vulne	rability Score
Temperatu N/A	N/A	N/A	N/A	
Extreme Pr	3	1	1	3
Sea Level F	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 N/A	N/A	N/A	N/A	
Air Quality	1	1	1	2
The state of the s	ooro roficata	the outent	to unbight of	a roio ot would

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 ada 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

The maxim	um CalEnviroScreen so
Indicator	Result for Project Cens
Exposure In	dicators
AQ-Ozone	3.83
AQ-PM	25.3
AQ-DPM	59.8
Drinking W	7.43
Lead Risk I	32.8
Pesticides	0
Toxic Relea	58.5
Traffic	98.4
Effect Indic	ators
CleanUp S	78
Groundwa	44.3
Haz Waste	72.6
Impaired V	90.1
Solid Wast	52.9
Sensitive P	opulation
Asthma	32
Cardio-vas	22.9
Low Birth \	11.2
Socioecono	omic Factor Indicators
Education	2.71
Housing	33.7
Linguistic	12.3
Poverty	17.2
Unemployı	9.72

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 Pov 89.33658 Employed 99.06326 Median HI 90.77377 Education Bachelor's 96.99731 High schoo 100 Preschool 95.7141 Transportation Auto Acce: 42.10189 Active corr 90 4658 Social 2-parent h 89.58039 98.20352 Voting Neighborhood Alcohol av 12.98601

Park acces 81.35506 Retail den: 90.87643 Supermark 72.34698 Tree canor 96.61234 Housing Homeown 37.0974 Housing h: 60.43886 Low-inc hc 54.20249 Low-inc re 66.84204 Uncrowde 89.4649 Health Outcomes Insured ad 87.48877 Arthritis 0 Asthma FR 59 High Blood 0 0 Cancer (ex Asthma 0 Coronary F 0 Chronic Ol 0 Diagnosed 0 Life Expect 93 93 Cognitively Physically 87 88 Heart Attac Mental Hea 0 Chronic Ki 0 Obesity 0 Pedestrian 76 Physical H 0 Stroke 0 Health Risk Behaviors Binge Drin 0 Current Sn 0 No Leisure 0 Climate Change Exposures Wildfire Ri: 0.2 SLR Inunda 26 Children 79 Elderly 8.7 English Sp 75 Foreign-bo 22 Outdoor W 90 Climate Change Adaptive Capacity Impervious 63 Traffic Den 81 Traffic Acc 53 Other Indices Hardship 2.2 Other Decision Support 2016 Votin 97

 7.3. Overall Health & Equity Scores

 Metric
 Result For Project Census Tract

 CalEnviroS
 15

 Healthy PLi
 99

 Project Lor No
 For Sector Se

7.4. Health & Equity Measures Measure T Co-Benefits Achieved

7.5. Evaluation Scorecard Category Number of Total Point Max Possil Weighted Score

7.6. Health & Equity Custom Measures Measure T Sponsor

 8. User Changes to Default Data

 Screen
 Justification

 Land Use
 dwelling unit #s, lot acreage, and # of parking spaces based on project details provided in PD

 Constructi construction schedule adjusted off-model to reflect conservative estimate of 24-month construction duration

 Constructi VOC content adjusted to reflect VOC limits outlined in BAAQMD Rule 8-3

 Operation: no fireplaces included in project design

 Operation: default NG consumption converted to electricity consumption off-model as project would be all-electric

Appendix C

Biological Resources Supplemental Information

Special-Status Plants Known to Occur in the Project Region and their Potential to Occur in the Survey Area

Name	Federal Status ¹	State Status ¹	CRPR ¹	Habitat	Potential to Occur in the Survey Area ²
Franciscan onion Allium peninsulare var. franciscanum	-	_	1B.2	Ultramafic. Cismontane woodland, valley and foothill grassland. Clay soils; often on serpentine; sometimes on volcanics. Dry hillsides. 15–1150 feet in elevation. Blooms (April), May– June. Geophyte.	Not expected to occur. Habitat suitable for this species is not present in the project area.
Napa false indigo Amorpha californica var. napensis	_	-	1B.2	Openings in forest or woodland or in chaparral. 100–2410 feet in elevation. Blooms April–July. Perennial.	Not expected to occur. Habitat suitable for this species is not present in the project area.
Bent-flowered fiddleneck Amsinckia lunaris	_	_	1B.2	Cismontane woodland, valley and foothill grassland, coastal bluff scrub. 10–2610 feet in elevation. Blooms March–June. Annual.	Not expected to occur. Habitat suitable for this species is not present in the project area.
Franciscan manzanita Arctostaphylos franciscana	FE	_	1B.1	Ultramafic. Chaparral. Serpentine outcrops in chaparral. 195–985 feet in elevation. Blooms February–April. Perennial.	Not expected to occur. Habitat suitable for this species is not present in the project area.
San Bruno Mountain manzanita Arctostaphylos imbricata	_	SE	1B.1	Chaparral, coastal scrub. Mostly known from a few sandstone outcrops in chaparral. 900–1215 feet in elevation. Blooms February–May. Perennial.	Not expected to occur. Habitat suitable for this species is not present in the project area.
Mt. Tamalpais manzanita Arctostaphylos montana ssp. montana	_	_	1B.3	Ultramafic. Chaparral, valley and foothill grassland. Serpentine slopes in chaparral and grassland. 490–2230 feet in elevation. Blooms February– April. Perennial.	Not expected to occur. Habitat suitable for this species is not present in the project area.
Presidio manzanita Arctostaphylos montana ssp. ravenii	FE	SE	1B.1	Chaparral, coastal prairie, coastal scrub, ultramafic. Open, rocky serpentine slopes. 150–705 feet in elevation. Blooms February–March. Perennial.	Not expected to occur. Habitat suitable for this species is not present in the project area.
Montara manzanita Arctostaphylos montaraensis	_	_	1B.2	Chaparral, coastal scrub. Slopes and ridges. 885–1510 feet in elevation. Blooms January–March. Perennial.	Not expected to occur. Habitat suitable for this species is not present in the project area.
Pacific manzanita Arctostaphylos pacifica	_	SE	1B.1	Coastal scrub, chaparral. Blooms February–April. Perennial.	Not expected to occur. Habitat suitable for this species is not present in the project area.
Pallid manzanita Arctostaphylos pallida	FT	SE	1B.1	Grows on uplifted marine terraces on siliceous shale or thin chert. May require fire. 590–1510 feet in elevation. Blooms December–March. Perennial.	Not expected to occur. Habitat suitable for this species is not present in the project area.

Name	Federal Status ¹	State Status ¹	CRPR ¹	Habitat	Potential to Occur in the Survey Area ²
Marin manzanita Arctostaphylos virgata	_	_	1B.2	Broadleafed upland forest, closed- cone coniferous forest, chaparral, north coast coniferous forest. On sandstone or granitic. 5–2625 feet in elevation. Blooms January–March. Perennial.	Not expected to occur. Habitat suitable for this species is not present in the project area.
Marsh sandwort <i>Arenaria paludic</i> ola	FE	SE	1B.1	Wetland. Marshes and swamps. Growing up through dense mats of Typha, Juncus, Scirpus, etc. in freshwater marsh. Sandy soil. 10–560 feet in elevation. Blooms May–August. Perennial.	Not expected to occur. Habitat suitable for this species is not present in the project area.
Alkali milk-vetch Astragalus tener var. tener	_	_	1B.2	Wetland. Alkali playa, valley and foothill grassland, vernal pools. Low ground, alkali flats, and flooded lands; in annual grassland or in playas or vernal pools. 0–550 feet in elevation. Blooms March–June. Annual.	Not expected to occur. Habitat suitable for this species is not present in the project area.
Thurber's reed grass Calamagrostis crassiglumis	_	_	2B.1	Wetland. Coastal scrub, marshes and swamps. Usually in marshy swales surrounded by grassland or coastal scrub. 15–165 feet in elevation. Blooms May–August. Geophyte.	Not expected to occur. Habitat suitable for this species is not present in the project area.
Tiburon mariposa-lily Calochortus tiburonensis	FT	ST	1B.1	Ultramafic. Valley and foothill grassland. On open, rocky, slopes in serpentine grassland. 165–490 feet in elevation. Blooms March–June. Geophyte.	Not expected to occur. Habitat suitable for this species is not present in the project area.
Coastal bluff morning-glory Calystegia purpurata ssp. saxicola	_	_	1B.2	Coastal dunes, coastal scrub, coastal bluff scrub, north coast coniferous forest. 35–345 feet in elevation. Blooms (March), April–September. Perennial.	Not expected to occur. Habitat suitable for this species is not present in the project area.
Bristly sedge Carex comosa	_	_	2B.1	Wetland. Marshes and swamps, coastal prairie, valley and foothill grassland. Lake margins, wet places; site below sea level is on a Delta island. 15–5315 feet in elevation. Blooms May–September. Geophyte.	Not expected to occur. Habitat suitable for this species is not present in the project area.
Northern meadow sedge Carex praticola	_	_	2B.2	Wetland. Meadows and seeps. Moist to wet meadows. 50–10500 feet in elevation. Blooms May–July. Perennial.	Not expected to occur. Habitat suitable for this species is not present in the project area.
Tiburon paintbrush Castilleja affinis var. neglecta	FE	ST	1B.2	Ultramafic. Valley and foothill grassland. Rocky serpentine sites. 395–1310 feet in elevation. Blooms April–June. Perennial.	Not expected to occur. Habitat suitable for this species is not present in the project area.

Name	Federal Status ¹	State Status ¹	CRPR ¹	Habitat	Potential to Occur in the Survey Area ²
Pappose tarplant Centromadia parryi ssp. parryi	_	_	1B.2	Chaparral, coastal prairie, meadows and seeps, coastal salt marsh, valley and foothill grassland. Vernally mesic, often alkaline sites. 5–1380 feet in elevation. Blooms May–November. Annual.	Not expected to occur. Habitat suitable for this species is not present in the project area.
Point Reyes salty bird's-beak Chloropyron maritimum ssp. palustre	_	_	1B.2	Salt marsh, Wetland. Coastal salt marsh. Usually in coastal salt marsh with Salicornia, Distichlis, Jaumea, Spartina, etc. 0–375 feet in elevation. Blooms June–October. Annual.	Not expected to occur. Habitat suitable for this species is not present in the project area.
Soft salty bird's-beak Chloropyron molle ssp. molle	FE	SR	1B.2	Wetland. Coastal salt marsh. In coastal salt marsh with Distichlis, Salicornia, Frankenia, etc. 0–15 feet in elevation. Blooms July–November. Annual.	Not expected to occur. Habitat suitable for this species is not present in the project area.
San Francisco Bay spineflower Chorizanthe cuspidata var. cuspidata	-	_	1B.2	Coastal bluff scrub, coastal dunes, coastal prairie, coastal scrub. Closely related to C. pungens. Sandy soil on terraces and slopes. 10–705 feet in elevation. Blooms April–July (August). Annual.	Not expected to occur. Habitat suitable for this species is not present in the project area.
Robust spineflower Chorizanthe robusta var. robusta	FE	_	1B.1	Cismontane woodland, coastal dunes, coastal scrub, chaparral. Sandy terraces and bluffs or in loose sand. 30–805 feet in elevation. Blooms April–September. Annual.	Not expected to occur. Habitat suitable for this species is not present in the project area.
Mt. Tamalpais thistle Cirsium hydrophilum var. vaseyi	_	_	1B.2	Wetland. Broadleafed upland forest, chaparral, meadows and seeps. Serpentine seeps and streams in chaparral and woodland. 590–2000 feet in elevation. Blooms May–August. Perennial.	Not expected to occur. Habitat suitable for this species is not present in the project area.
Compact cobwebby thistle Cirsium occidentale var. compactum	_	_	1B.2	Chaparral, coastal dunes, coastal prairie, coastal scrub. On dunes and on clay in chaparral; also in grassland. 15–490 feet in elevation. Blooms April–June. Perennial.	Not expected to occur. Habitat suitable for this species is not present in the project area.
Presidio clarkia Clarkia franciscana	FE	SE	1B.1	Ultramafic. Coastal scrub, valley and foothill grassland. Serpentine outcrops in grassland or scrub. 65– 1000 feet in elevation. Blooms May– July. Annual.	Not expected to occur. Habitat suitable for this species is not present in the project area.
Round-headed collinsia Collinsia corymbosa	_	_	1B.2	Coastal dunes. 35–100 feet in elevation. Blooms April–June. Annual.	Not expected to occur. Habitat suitable for this species is not present in the project area.

Name	Federal Status ¹	State Status ¹	CRPR ¹	Habitat	Potential to Occur in the Survey Area ²
Silverskin lichen Dermatocarpon meiophyllizum	_	_	2B.3	Preferred habitat is undisturbed, exposed streams with large rocks or bedrock at high elevations, but it is also found in cold, deep canyons at lower elevations. 195–7545 feet in elevation. Blooms . Lichen.	Not expected to occur. Habitat suitable for this species is not present in the project area.
Western leatherwood Dirca occidentalis	_	_	1B.2	. On brushy slopes, mesic sites; mostly in mixed evergreen and foothill woodland communities. 80–1395 feet in elevation. Blooms January–March (April). Perennial.	Not expected to occur. Habitat suitable for this species is not present in the project area.
Tiburon buckwheat Eriogonum luteolum var. caninum	_	_	1B.2	Ultramafic. Chaparral, valley and foothill grassland, cismontane woodland, coastal prairie. Serpentine soils; sandy to gravelly sites. 0–2295 feet in elevation. Blooms May– September. Annual.	Not expected to occur. Habitat suitable for this species is not present in the project area.
San Joaquin spearscale Extriplex joaquinana	_	_	1B.2	Alkali playa. Chenopod scrub, alkali meadow, playas, valley and foothill grassland. In seasonal alkali wetlands or alkali sink scrub with Distichlis spicata, Frankenia, etc. 5–2740 feet in elevation. Blooms April–October. Annual.	Not expected to occur. Habitat suitable for this species is not present in the project area.
Minute pocket moss Fissidens pauperculus	_	_	1B.2	Redwood. North coast coniferous forest. Moss growing on damp soil along the coast. In dry streambeds and on stream banks. 35–3360 feet in elevation. Blooms . Perennial.	Not expected to occur. Habitat suitable for this species is not present in the project area.
Marin checker lily Fritillaria lanceolata var. tristulis	_	_	1B.1	Ultramafic. Coastal bluff scrub, coastal scrub, coastal prairie. Occurrences reported from canyons and riparian areas as well as rock outcrops; often on serpentine. 50–490 feet in elevation. Blooms February–May. Geophyte.	Not expected to occur. Habitat suitable for this species is not present in the project area.
Fragrant fritillary Fritillaria liliacea	_	_	1B.2	Coastal scrub, valley and foothill grassland, coastal prairie, cismontane woodland. Often on serpentine; various soils reported though usually on clay, in grassland. 10–1310 feet in elevation. Blooms February–April. Geophyte.	Not expected to occur. Habitat suitable for this species is not present in the project area.
Blue coast gilia <i>Gilia capitata</i> ssp. <i>chamissonis</i>	-	-	1B.1	Coastal dunes, coastal scrub. 10–655 feet in elevation. Blooms April–July. Annual.	Not expected to occur. Habitat suitable for this species is not present in the project area.
Dark-eyed gilia Gilia millefoliata	-	_	1B.2	Coastal dunes. 5–195 feet in elevation. Blooms April–July. Annual.	Not expected to occur. Habitat suitable for this species is not present in the project area.

Name	Federal Status ¹	State Status ¹	CRPR ¹	Habitat	Potential to Occur in the Survey Area ²
Diablo helianthella Helianthella castanea	-	-	1B.2	Usually in chaparral/oak woodland interface in rocky, azonal soils. Often in partial shade. 150–3510 feet in elevation. Blooms March–June. Perennial.	Not expected to occur. Habitat suitable for this species is not present in the project area.
Congested-headed hayfield tarplant <i>Hemizonia congesta</i> ssp. <i>congesta</i>	_	_	1B.2	Valley and foothill grassland. Grassy valleys and hills, often in fallow fields; sometimes along roadsides. 65–2135 feet in elevation. Blooms April– November. Annual.	Not expected to occur. The site has been developed for too long to support natural habitat suitable for congested-headed hayfield tarplant.
Short-leaved evax Hesperevax sparsiflora var. brevifolia	_	_	1B.2	Coastal bluff scrub, coastal dunes, coastal prairie. Sandy bluffs and flats. 0–705 feet in elevation. Blooms March–June. Annual.	Not expected to occur. Habitat suitable for this species is not present in the project area.
Marin western flax (Marin Dwarf- flax) Hesperolinon congestum	FT	ST	1B.1	Ultramafic. Chaparral, valley and foothill grassland. In serpentine barrens and in serpentine grassland and chaparral. 195–1215 feet in elevation. Blooms April–July. Annual.	Not expected to occur. Habitat suitable for this species is not present in the project area.
Water star-grass Heteranthera dubia	_	_	2B.2	Marshes and swamps. Alkaline, still or slow-moving water. Requires a pH of 7 or higher, usually in slightly eutrophic waters. 50–4955 feet in elevation. Blooms July–October. Perennial.	Not expected to occur. Habitat suitable for this species is not present in the project area.
Loma Prieta hoita Hoita strobilina	_	_	1B.1	Ultramafic. Chaparral, cismontane woodland, riparian woodland. Serpentine; mesic sites. 195–3200 feet in elevation. Blooms May–July (August),(October). Perennial.	Not expected to occur. Habitat suitable for this species is not present in the project area.
Santa Cruz tarplant Holocarpha macradenia	FT	SE	1B.1	Coastal prairie, coastal scrub, valley and foothill grassland. Light, sandy soil or sandy clay; often with nonnatives. 35–720 feet in elevation. Blooms June–October. Annual.	Not expected to occur. Habitat suitable for this species is not present in the project area.
Kellogg's horkelia Horkelia cuneata var. sericea	_	_	1B.1	Closed-cone coniferous forest, coastal scrub, coastal dunes, chaparral. Old dunes, coastal sandhills; openings. 15– 705 feet in elevation. Blooms April– September. Perennial.	Not expected to occur. Habitat suitable for this species is not present in the project area.
Point Reyes horkelia Horkelia marinensis	-	-	1B.2	Coastal dunes, coastal prairie, coastal scrub. Sandy flats and dunes near coast; in grassland or scrub plant communities. 5–2545 feet in elevation. Blooms May–September. Perennial.	Not expected to occur. Habitat suitable for this species is not present in the project area.

Name	Federal Status ¹	State Status ¹	CRPR ¹	Habitat	Potential to Occur in the Survey Area ²
Thin-lobed horkelia <i>Horkelia tenuiloba</i>	_	_	1B.2	Broadleaved upland forest, chaparral, valley and foothill grassland. Sandy soils; mesic openings. 165–1640 feet in elevation. Blooms May–July (August). Perennial.	Not expected to occur. Habitat suitable for this species is not present in the project area.
Island tube lichen Hypogymnia schizidiata	_	_	1B.3	Chaparral, closed-cone coniferous forest. On bark and wood of hardwoods and conifers. 1180–1330 feet in elevation. Blooms . Perennial.	Not expected to occur. Habitat suitable for this species is not present in the project area.
Small groundcone Kopsiopsis hookeri	_	_	2B.3	North coast coniferous forest. Open woods, shrubby places, generally on Gaultheria shallon. 395–4710 feet in elevation. Blooms April–August. Geophyte.	Not expected to occur. Habitat suitable for this species is not present in the project area.
Beach layia Layia carnosa	FE	ST	1B.1	Coastal dunes, coastal scrub. On sparsely vegetated, semi-stabilized dunes, usually behind foredunes. 0– 100 feet in elevation. Blooms March– July. Annual.	Not expected to occur. Habitat suitable for this species is not present in the project area.
Rose leptosiphon Leptosiphon rosaceus	_	_	1B.1	Coastal bluff scrub. 35–460 feet in elevation. Blooms April–July. Annual.	Not expected to occur. Habitat suitable for this species is not present in the project area.
San Francisco lessingia Lessingia germanorum	FE	SE	1B.1	Coastal scrub. On remnant dunes. Open sandy soils relatively free of competing plants. 10–510 feet in elevation. Blooms (June), July– November. Annual.	Not expected to occur. Habitat suitable for this species is not present in the project area.
Tamalpais lessingia Lessingia micradenia var. micradenia	_	_	1B.2	Ultramafic. Chaparral, valley and foothill grassland. Usually on serpentine, in serpentine grassland or serpentine chaparral. Often on roadsides. 195–1000 feet in elevation. Blooms (June), July–October. Annual.	Not expected to occur. Habitat suitable for this species is not present in the project area.
Arcuate bush-mallow Malacothamnus arcuatus	_	_	1B.2	Chaparral, cismontane woodland. Gravelly alluvium. 5–2410 feet in elevation. Blooms April–September. Perennial.	Not expected to occur. Habitat suitable for this species is not present in the project area.
Marsh microseris Microseris paludosa	_	_	1B.2	Closed-cone coniferous forest, cismontane woodland, coastal scrub, valley and foothill grassland. 15–985 feet in elevation. Blooms April–June (July). Perennial.	Not expected to occur. Habitat suitable for this species is not present in the project area.
Northern curly-leaved monardella Monardella sinuata ssp. nigrescens	_	_	1B.2	Coastal dunes, coastal scrub, chaparral, lower montane coniferous forest. Sandy soils. 0–985 feet in elevation. Blooms (April), May–July (August),(September). Annual.	Not expected to occur. Habitat suitable for this species is not present in the project area.

Name	Federal Status ¹	State Status ¹	CRPR ¹	Habitat	Potential to Occur in the Survey Area ²
Marin County navarretia Navarretia rosulata	_	_	1B.2	Ultramafic. Closed-cone coniferous forest, chaparral. Dry, open rocky places; can occur on serpentine. 655– 2085 feet in elevation. Blooms May– July. Annual.	Not expected to occur. Habitat suitable for this species is not present in the project area.
White-rayed pentachaeta Pentachaeta bellidiflora	FE	SE	1B.1	Ultramafic. Valley and foothill grassland, cismontane woodland. Open dry rocky slopes and grassy areas, often on soils derived from serpentine bedrock. 115–2000 feet in elevation. Blooms March–May. Annual.	Not expected to occur. Habitat suitable for this species is not present in the project area.
Choris' popcornflower Plagiobothrys chorisianus var. chorisianus	_	_	1B.2	Chaparral, coastal scrub, coastal prairie. Mesic sites. 50–525 feet in elevation. Blooms March–June. Annual.	Not expected to occur. Habitat suitable for this species is not present in the project area.
San Francisco popcornflower Plagiobothrys diffusus	_	SE	1B.1	Valley and foothill grassland, coastal prairie. Historically from grassy slopes with marine influence. 150–1180 feet in elevation. Blooms March–June. Annual.	Not expected to occur. Habitat suitable for this species is not present in the project area.
Hairless popcornflower Plagiobothrys glaber	_	_	1A	Salt marsh, Vernal pool, Wetland. Meadows and seeps, marshes and swamps. Coastal salt marshes and alkaline meadows. 15–590 feet in elevation. Blooms March–May. Annual.	Not expected to occur. Habitat suitable for this species is not present in the project area, and this species is extinct.
North Coast semaphore grass Pleuropogon hooverianus	_	ST	1B.1	Wetland. Broadleafed upland forest, meadows and seeps, north coast coniferous forest. Wet grassy, usually shady areas, sometimes freshwater marsh; associated with forest environments. 150–3805 feet in elevation. Blooms April–June. Geophyte.	Not expected to occur. Habitat suitable for this species is not present in the project area.
Oregon polemonium Polemonium carneum	_	_	2B.2	Coastal prairie, coastal scrub, lower montane coniferous forest. 0–6005 feet in elevation. Blooms April– September. Perennial.	Not expected to occur. Habitat suitable for this species is not present in the project area.
Tamalpais oak Quercus parvula var. tamalpaisensis	_	_	1B.3	Lower montane coniferous forest. 330–2460 feet in elevation. Blooms March–April. Perennial.	Not expected to occur. Habitat suitable for this species is not present in the project area.
Adobe sanicle Sanicula maritima	-	_	1B.1	Ultramafic. Meadows and seeps, valley and foothill grassland, chaparral, coastal prairie. Moist clay or ultramafic soils. 100–785 feet in elevation. Blooms February–May. Perennial.	Not expected to occur. Habitat suitable for this species is not present in the project area.

Name	Federal Status ¹	State Status ¹	CRPR ¹	Habitat	Potential to Occur in the Survey Area ²
Chaparral ragwort Senecio aphanactis	_	_	2B.2	Chaparral, cismontane woodland, coastal scrub. Drying alkaline flats. 65–2805 feet in elevation. Blooms January–April (May). Annual.	Not expected to occur. Habitat suitable for this species is not present in the project area.
Point Reyes checkerbloom <i>Sidalcea calycosa</i> ssp. <i>rhizomata</i>	_	_	1B.2	Wetland. Marshes and swamps. Freshwater marshes near the coast. 15–310 feet in elevation. Blooms April– September. Geophyte.	Not expected to occur. Habitat suitable for this species is not present in the project area.
Scouler's catchfly Silene scouleri ssp. scouleri	_	_	2B.2	Coastal bluff scrub, coastal prairie, valley and foothill grassland. 0–1970 feet in elevation. Blooms (March– May)June–August(September). Perennial.	Not expected to occur. Habitat suitable for this species is not present in the project area.
San Francisco campion Silene verecunda ssp. verecunda	_	_	1B.2	Ultramafic. Coastal scrub, valley and foothill grassland, coastal bluff scrub, chaparral, coastal prairie. Often on mudstone or shale; one site on serpentine. 100–2115 feet in elevation. Blooms (February), March–June (August). Perennial.	Not expected to occur. Habitat suitable for this species is not present in the project area.
Long-styled sand-spurrey Spergularia macrotheca var. longistyla	_	_	1B.2	Marshes and swamps, meadows and seeps. Alkaline. 0–835 feet in elevation. Blooms February–May. Perennial.	Not expected to occur. Habitat suitable for this species is not present in the project area.
Santa Cruz microseris Stebbinsoseris decipiens	_	_	1B.2	Ultramafic. Broadleafed upland forest, closed-cone coniferous forest, chaparral, coastal prairie, coastal scrub, valley and foothill grassland. Open areas in loose or disturbed soil, usually derived from sandstone, shale or serpentine, on seaward slopes. 35– 1640 feet in elevation. Blooms April– May. Annual.	Not expected to occur. Habitat suitable for this species is not present in the project area.
Tamalpais jewelflower Streptanthus batrachopus	_	_	1B.3	Ultramafic. Closed-cone coniferous forest, chaparral. Talus serpentine outcrops. 1100–2200 feet in elevation. Blooms April–July. Annual.	Not expected to occur. Habitat suitable for this species is not present in the project area.
Tiburon jewelflower Streptanthus glandulosus ssp. niger	FE	SE	1B.1	Ultramafic. Valley and foothill grassland. Shallow, rocky serpentine slopes. 100–490 feet in elevation. Blooms May–June. Annual.	Not expected to occur. Habitat suitable for this species is not present in the project area.
Mt. Tamalpais bristly jewelflower Streptanthus glandulosus ssp. pulchellus	-	_	1B.2	Ultramafic. Chaparral, valley and foothill grassland. Serpentine slopes. 490–2625 feet in elevation. Blooms May–July (August). Annual.	Not expected to occur. Habitat suitable for this species is not present in the project area.
California seablite Suaeda californica	FE	_	1B.1	Wetland. Marshes and swamps. Margins of coastal salt marshes. 0–15 feet in elevation. Blooms July– October. Perennial.	Not expected to occur. Habitat suitable for this species is not present in the project area.

Name	Federal Status ¹	State Status ¹	CRPR ¹	Habitat	Potential to Occur in the Survey Area ²
Suisun Marsh aster Symphyotrichum lentum	-	_	1B.2	Wetland. Marshes and swamps (brackish and freshwater). Most often seen along sloughs with Phragmites, Scirpus, blackberry, Typha, etc. 0–100 feet in elevation. Blooms (April), May– November. Geophyte.	Not expected to occur. Habitat suitable for this species is not present in the project area.
Two-fork clover Trifolium amoenum	FE	_	1B.1	Valley and foothill grassland, coastal bluff scrub. Sometimes on serpentine soil, open sunny sites, swales. Most recently cited on roadside and eroding cliff face. 15–1015 feet in elevation. Blooms April–June. Annual.	Not expected to occur. Habitat suitable for this species is not present in the project area.
Saline clover Trifolium hydrophilum	_	_	1B.2	Wetland. Marshes and swamps, valley and foothill grassland, vernal pools. Mesic, alkaline sites. 0–985 feet in elevation. Blooms April–June. Annual.	Not expected to occur. Habitat suitable for this species is not present in the project area.
San Francisco owl's-clover Triphysaria floribunda	-	_	1B.2	Coastal prairie, coastal scrub, valley and foothill grassland. On serpentine and non-serpentine substrate (such as at Pt. Reyes). 5–490 feet in elevation. Blooms April–June. Annual.	Not expected to occur. Habitat suitable for this species is not present in the project area.
Coastal triquetrella Triquetrella californica	_	_	1B.2	Coastal bluff scrub, coastal scrub. Grows within 30m from the coast in coastal scrub, grasslands and in open gravels on roadsides, hillsides, rocky slopes, and fields. On gravel or thin soil over outcrops. 35–330 feet in elevation. Blooms . Perennial.	Not expected to occur. Habitat suitable for this species is not present in the project area.
Oval-leaved viburnum Viburnum ellipticum	_	_	2B.3	Chaparral, cismontane woodland, lower montane coniferous forest. 705–4595 feet in elevation. Blooms May–June. Perennial.	Not expected to occur. Habitat suitable for this species is not present in the project area.
Scouler's catchfly Silene scouleri ssp. scouleri	-	_	2B.2	Coastal bluff scrub, coastal prairie, valley and foothill grassland. 0–1970 feet in elevation. Blooms (March– May)June–August(September). Perennial.	Not expected to occur. Habitat suitable for this species is not present in the project area.
San Francisco campion Silene verecunda ssp. verecunda	-	_	1B.2	Ultramafic. Coastal scrub, valley and foothill grassland, coastal bluff scrub, chaparral, coastal prairie. Often on mudstone or shale; one site on serpentine. 100–2115 feet in elevation. Blooms (February), March–June (August). Perennial.	Not expected to occur. Habitat suitable for this species is not present in the project area.
Long-styled sand-spurrey Spergularia macrotheca var. longistyla	-	_	1B.2	Marshes and swamps, meadows and seeps. Alkaline. 0–835 feet in elevation. Blooms February–May. Perennial.	Not expected to occur. Habitat suitable for this species is not present in the project area.

Name	Federal Status ¹	State Status ¹	CRPR ¹	Habitat	Potential to Occur in the Survey Area ²
Santa Cruz microseris Stebbinsoseris decipiens	_	_	1B.2	Ultramafic. Broadleafed upland forest, closed-cone coniferous forest, chaparral, coastal prairie, coastal scrub, valley and foothill grassland. Open areas in loose or disturbed soil, usually derived from sandstone, shale or serpentine, on seaward slopes. 35– 1640 feet in elevation. Blooms April– May. Annual.	Not expected to occur. Habitat suitable for this species is not present in the project area.
Tamalpais jewelflower Streptanthus batrachopus	-	Η	1B.3	Ultramafic. Closed-cone coniferous forest, chaparral. Talus serpentine outcrops. 1100–2200 feet in elevation. Blooms April–July. Annual.	Not expected to occur. Habitat suitable for this species is not present in the project area.
Tiburon jewelflower Streptanthus glandulosus ssp. niger	FE	SE	1B.1	Ultramafic. Valley and foothill grassland. Shallow, rocky serpentine slopes. 100–490 feet in elevation. Blooms May–June. Annual.	Not expected to occur. Habitat suitable for this species is not present in the project area.
Mt. Tamalpais bristly jewelflower Streptanthus glandulosus ssp. pulchellus	_	_	1B.2	Ultramafic. Chaparral, valley and foothill grassland. Serpentine slopes. 490–2625 feet in elevation. Blooms May–July (August). Annual.	Not expected to occur. Habitat suitable for this species is not present in the project area.
California seablite Suaeda californica	FE	_	1B.1	Wetland. Marshes and swamps. Margins of coastal salt marshes. 0–15 feet in elevation. Blooms July– October. Perennial.	Not expected to occur. Habitat suitable for this species is not present in the project area.
Suisun Marsh aster Symphyotrichum lentum	_	_	1B.2	Wetland. Marshes and swamps (brackish and freshwater). Most often seen along sloughs with Phragmites, Scirpus, blackberry, Typha, etc. 0–100 feet in elevation. Blooms (April), May– November. Geophyte.	Not expected to occur. Habitat suitable for this species is not present in the project area.
Two-fork clover Trifolium amoenum	FE	-	1B.1	Valley and foothill grassland, coastal bluff scrub. Sometimes on serpentine soil, open sunny sites, swales. Most recently cited on roadside and eroding cliff face. 15–1015 feet in elevation. Blooms April–June. Annual.	Not expected to occur. Habitat suitable for this species is not present in the project area.
Saline clover Trifolium hydrophilum	_	_	1B.2	Wetland. Marshes and swamps, valley and foothill grassland, vernal pools. Mesic, alkaline sites. 0–985 feet in elevation. Blooms April–June. Annual.	Not expected to occur. Habitat suitable for this species is not present in the project area.
San Francisco owl's-clover Triphysaria floribunda	-	_	1B.2	Coastal prairie, coastal scrub, valley and foothill grassland. On serpentine and non-serpentine substrate (such as at Pt. Reyes). 5–490 feet in elevation. Blooms April–June. Annual.	Not expected to occur. Habitat suitable for this species is not present in the project area.

Name	Federal Status ¹	State Status ¹	CRPR ¹	Habitat	Potential to Occur in the Survey Area ²
Coastal triquetrella Triquetrella californica	_	_	1B.2	Coastal bluff scrub, coastal scrub. Grows within 30m from the coast in coastal scrub, grasslands and in open gravels on roadsides, hillsides, rocky slopes, and fields. On gravel or thin soil over outcrops. 35–330 feet in elevation. Blooms . Perennial.	Not expected to occur. Habitat suitable for this species is not present in the project area.
Oval-leaved viburnum Viburnum ellipticum	_	_	2B.3	Chaparral, cismontane woodland, lower montane coniferous forest. 705–4595 feet in elevation. Blooms May–June. Perennial.	Not expected to occur. Habitat suitable for this species is not present in the project area.

Notes: CRPR = California Rare Plant Rank; CNDDB = California Natural Diversity Database.

^{1&2} Legal Status Definitions

Federal:

FE Endangered (legally protected)

FT Threatened (legally protected)

State:

SE Endangered (legally protected)

California Rare Plant Ranks:

- 1B Plant species considered rare or endangered in California and elsewhere (protected under CEQA, but not legally protected under ESA or CESA)
- 2B Plant species considered rare or endangered in California but more common elsewhere (protected under CEQA, but not legally protected under ESA or CESA)

Threat Ranks:

- 0.1 Seriously threatened in California (over 80% of occurrences threatened; high degree and immediacy of threat)
- 0.2 Moderately threatened in California (20-80% occurrences threatened; moderate degree and immediacy of threat)
- 0.3 Not very threatened in California (less than 20% of occurrences threatened / low degree and immediacy of threat or no current threats known)

² Potential for Occurrence Definitions

Not expected to occur: Species is unlikely to be present within the survey area due to poor habitat quality, lack of suitable habitat features, or restricted current distribution of the species.

May occur: Suitable habitat is available within the survey area; however, there are little to no other indicators that the species might be present.

Likely to occur: All of the species life history requirements can be met by habitat present in the survey area, and populations/occurrences are known to occur in the immediate vicinity.

Sources: CNDDB 2024; CNPS 2024.

Special-Status Wildlife Known to Occur in the Project Region and their Potential to Occur on the Survey Area

Name	Federal Status ¹	State Status ¹	Habitat	Potential to Occur in the Survey Area
Reptiles and Amphibians				
Alameda whipsnake Masticophis lateralis euryxanthus	FT	ST	Typically found in chaparral and scrub habitats but will also use adjacent grassland, oak savanna and woodland habitats. Mostly south-facing slopes and ravines, with rock outcrops, deep crevices or abundant rodent burrows, where shrubs form a vegetative mosaic with oak trees and grasses.	Not expected to occur. The project area is outside of this species' range, and habitat suitable for this species is not present in the project area.
California giant salamander Dicamptodon ensatus	_	SSC	Known from wet coastal forests near streams and seeps from Mendocino County south to Monterey County and east to Napa County. Aquatic larvae found in cold, clear streams, occasionally in lakes and ponds. Adults known from wet forests under rocks and logs near streams and lakes.	Not expected to occur. Habitat suitable for this species is not present in the project area.
California red-legged frog Rana draytonii	FT	SSC	Artificial flowing waters, artificial standing waters, freshwater marsh, marsh & swamp, riparian forest, riparian scrub, riparian woodland, Sacramento/San Joaquin flowing waters, Sacramento/San Joaquin standing waters, south coast flowing waters. Lowlands and foothills in or near permanent sources of deep water with dense, shrubby or emergent riparian vegetation. Requires 11-20 weeks of permanent water for larval development. Must have access to estivation habitat.	Not expected to occur. Habitat suitable for this species is not present in the project area.
California tiger salamander - central California DPS <i>Ambystoma californiense</i> pop. 1	FT	ST	Lives in vacant or mammal-occupied burrows throughout most of the year; in grassland, savanna, or open woodland habitats. Need underground refuges, especially ground squirrel burrows, and vernal pools or other seasonal water sources for breeding.	Not expected to occur. Habitat suitable for this species is not present in the project area.
Foothill yellow-legged frog (North Coast DPS) <i>Rana boylii</i> pop. 1	_	SSC	Partly-shaded, shallow streams and riffles with a rocky substrate in a variety of habitats. Need at least some cobble-sized substrate for egg-laying. Need at least 15 weeks to attain metamorphosis.	Not expected to occur. Habitat suitable for this species is not present in the project area.
Green sea turtle Chelonia mydas	FT	_	Marine sea turtle; inhabits the Pacific ocean.	Not expected to occur. Habitat suitable for this species is not present in the project area.
San Francisco gartersnake Thamnophis sirtalis tetrataenia	FE	SE, FP	Vicinity of freshwater marshes, ponds and slow-moving streams in San Mateo County and extreme northern Santa Cruz County. Prefers dense cover and water depths of at least one foot. Upland areas near water are also very important.	Not expected to occur. The project area is outside of this species' range.

Name	Federal Status ¹	State Status ¹	Habitat	Potential to Occur in the Survey Area
Northwestern pond turtle Actinemys marmorata	FP	SSC	Ponds, marshes, rivers, streams and irrigation ditches, usually with aquatic vegetation, below 6000 ft elevation. Needs basking sites and suitable (sandy banks or grassy open fields) upland habitat up to 0.5 km from water for egg-laying.	Not expected to occur. Habitat suitable for this species is not present in or near the project area.
Birds				
Alameda song sparrow Melospiza melodia pusillula	_	SSC	Salt marsh. Resident of salt marshes bordering south arm of San Francisco Bay. Inhabits pickleweed (Salicornia spp.) marshes; nests low in Grindelia bushes (high enough to escape high tides) and in pickleweed.	Not expected to occur. Habitat suitable for this species is not present in or near the project area.
Bank swallow Riparia riparia	_	ST	Riparian scrub, riparian woodland. Colonial nester; nests primarily in riparian and other lowland habitats west of the desert. Requires vertical banks/cliffs with fine-textured/sandy soils near streams, rivers, lakes, ocean to dig nesting hole.	Not expected to occur. Habitat suitable for this species is not present in or near the project area.
Burrowing owl Athene cunicularia	-	SSC	Open, dry annual or perennial grasslands, deserts and scrublands characterized by low- growing vegetation. Subterranean nester, dependent upon burrowing mammals, most notably, the California ground squirrel.	Not expected to occur. Habitat suitable for this species is not present in or near the project area.
California black rail Laterallus jamaicensis coturniculus	-	ST, FP	Brackish marsh, freshwater marsh, marsh and swamp, salt marsh, wetland. Inhabits freshwater marshes, wet meadows and shallow margins of saltwater marshes bordering larger bays. Needs water depths of about 1 inch that do not fluctuate during the year and dense vegetation for nesting habitat.	Not expected to occur. Habitat suitable for this species is not present in or near the project area.
California least tern Sternula antillarum browni	FE	SE, FP	Nests along the coast from San Francisco Bay south to northern Baja California. Colonial breeder on bare or sparsely vegetated, flat substrates: sand beaches, alkali flats, landfills, or paved areas.	Not expected to occur. Habitat suitable for this species is not present in or near the project area.
California Ridgway's rail Rallus obsoletus obsoletus	FE	SE, FP	Brackish marsh, marsh and swamp, salt marsh, wetlands. Salt-water and brackish marshes traversed by tidal sloughs in the vicinity of San Francisco Bay. Associated with abundant growths of pickleweed, but feeds away from cover on invertebrates from mud- bottomed sloughs.	Not expected to occur. Habitat suitable for this species is not present in or near the project area.
Northern harrier Circus hudsonius	-	SSC	sink to mountain cienagas. Nests on ground	Not expected to occur. Habitat suitable for this species is not present in or near the project area.

Name	Federal Status ¹	State Status ¹	Habitat	Potential to Occur in the Survey Area
Saltmarsh common yellowthroat Geothlypis trichas sinuosa	_	SSC	Marsh and swamp. Resident of the San Francisco Bay region, in fresh and salt water marshes. Requires thick, continuous cover down to water surface for foraging; tall grasses, tule patches, willows for nesting.	Not expected to occur. Habitat suitable for this species is not present in or near the project area.
San Pablo song sparrow Melospiza melodia samuelis	-	SSC	Resident of salt marshes along the north side of San Francisco and San Pablo bays. Inhabits tidal sloughs in the pickleweed (Salicornia spp.) marshes; nests in Grindelia bordering slough channels.	Not expected to occur. Habitat suitable for this species is not present in or near the project area.
Short-eared owl Asio flammeus	_	SSC	Found in swamp lands, both fresh and salt; lowland meadows; irrigated alfalfa fields. Tule patches/tall grass needed for nesting/daytime seclusion. Nests on dry ground in depression concealed in vegetation.	Not expected to occur. Habitat suitable for this species is not present in or near the project area.
Western snowy plover Charadrius nivosus nivosus	FT	SSC	Sandy beaches, salt pond levees and shores of large alkali lakes. Needs sandy, gravelly or friable soils for nesting.	Not expected to occur. Habitat suitable for this species is not present in or near the project area.
Yellow rail Coturnicops noveboracensis	_	SSC	Freshwater marsh, meadow and seep. Summer resident in eastern Sierra Nevada in Mono County. Fresh-water marshlands.	Not expected to occur. Habitat suitable for this species is not present in or near the project area.
Yellow-headed blackbird Xanthocephalus xanthocephalus	-	SSC	Marsh and swamp, wetland. Nests in freshwater emergent wetlands with dense vegetation and deep water. Often along borders of lakes or ponds. Nests only where large insects such as Odonata are abundant, nesting timed with maximum emergence of aquatic insects.	Not expected to occur. Habitat suitable for this species is not present in or near the project area.
Fish				
Coho salmon - central California coast ESU <i>Oncorhynchus kisutch</i> pop. 4	FE	SE	State listing includes populations south of Punta Gorda. Require beds of loose, silt-free, coarse gravel for spawning. Also need cover, cool water and sufficient dissolved oxygen.	Not expected to occur. Aquatic habitat suitable for this species is not present in or near the project area.
Eulachon Thaleichthys pacificus	FT	_	Spawn in lower reaches of coastal rivers with moderate water velocities and bottom of pea-sized gravel, sand and woody debris	Not expected to occur. Aquatic habitat suitable for this species is not present in or near the project area.
Green sturgeon - southern DPS <i>Acipenser medirostris</i> pop. 1	FT	-	Non-spawning adults occupy marine/estuarine waters. Delta Estuary is important for rearing juveniles. Spawning occurs primarily in cool (11–15 C) sections of mainstem rivers in deep pools (25–30 feet) with substrate containing small to medium sized sand, gravel, cobble, or boulder.	Not expected to occur. Aquatic habitat suitable for this species is not present in or near the project area.

Name	Federal Status ¹	State Status ¹	Habitat	Potential to Occur in the Survey Area
Hardhead Mylopharodon conocephalus	_	SSC	Clear, deep pools with sand-gravel-boulder bottoms and slow water velocity. Not found where exotic centrarchids predominate.	Not expected to occur. Aquatic habitat suitable for this species is not present in or near the project area.
Longfin smelt Spirinchus thaleichthys	FC	ST, SSC	Found in open waters of estuaries, mostly in middle or bottom of water column. Prefer salinities of 15-30 ppt, but can be found in completely freshwater to almost pure seawater.	Not expected to occur. Aquatic habitat suitable for this species is not present in or near the project area.
Sacramento perch Archoplites interruptus	_	SSC	Historically found in the sloughs, slow- moving rivers, and lakes of the Central Valley. Prefers warm water. Aquatic vegetation is essential for young. Tolerates wide range of physio-chemical water conditions.	Not expected to occur. Aquatic habitat suitable for this species is not present in or near the project area.
Tidewater goby Eucyclogobius newberryi	FE	SSC	Found in shallow lagoons and lower stream reaches, they need fairly still but not stagnant water and high oxygen levels.	Not expected to occur. Aquatic habitat suitable for this species is not present in or near the project area.
Invertebrates				
Bay checkerspot butterfly Euphydryas editha bayensis	FT	_	Coastal dunes, ultramafic, valley and foothill grassland. Restricted to native grasslands on outcrops of serpentine soil in the vicinity of San Francisco Bay. Plantago erecta is the primary host plant; Orthocarpus densiflorus and O. purpurscens are the secondary host plants.	Not expected to occur. Habitat suitable for this species is not present in or near the project area.
Callippe silverspot butterfly Speyeria callippe callippe	FE	_	Coastal scrub. Restricted to the northern coastal scrub of the San Francisco peninsula. Hostplant is Viola pedunculata. Most adults found on east-facing slopes; males congregate on hilltops in search of females.	Not expected to occur. Habitat suitable for this species is not present in or near the project area.
Crotch bumble bee Bombus crotchii	_	SC	Found primarily in California: mediterranean, Pacific coast, western desert, Great Valley, and adjacent foothills through most of southwestern California. Habitat includes open grassland and scrub. Nests underground.	Not expected to occur. Sausalito is outside of this species' range in California (CDFW 2023).

Name	Federal Status ¹	State Status ¹	Habitat	Potential to Occur in the Survey Area
Mission blue butterfly Icaricia icarioides missionensis	FE	_	Coastal prairie Inhabits grasslands of the San Francisco peninsula. Three larval host plants: Lupinus albifrons, Lupinus variicolor, and Lupinus formosus, of which Lupinus albifrons is favored.	Not expected to occur. The northeastern portion of Sausalito, where this project is located, is considered to be outside of this species range (USFWS 2024). Although this species is known to occur in Fort Baker (1 mile south of the project area), it is unlikely that Mission blue butterfly would disperse from Fort Baker into the project area because the roads, structures, and landscaping development between these locations would serve as a barrier to dispersal.
Monarch - California overwintering population <i>Danaus plexippus plexippus</i> pop. 1	FC	_	Closed-cone coniferous forest Winter roost sites extend along the coast from northern Mendocino to Baja California, Mexico. Roosts located in wind-protected tree groves (e.g., eucalyptus, Monterey pine, cypress), with nectar and water sources nearby.	Not expected to occur. Habitat suitable for this species is not present in or near the project area.
San Bruno elfin butterfly Callophrys mossii bayensis	FE	_	Valley and foothill grassland. Coastal, mountainous areas with grassy ground cover, mainly in the vicinity of San Bruno Mountain, San Mateo County. Colonies are located on steep, north-facing slopes within the fog belt. Larval host plant is Sedum spathulifolium.	Not expected to occur. Habitat suitable for this species is not present in or near the project area.
Western bumble bee Bombus occidentalis	_	SC	Once common throughout much of its range, in California, this species is currently largely restricted to high elevation sites in the Sierra Nevada and the northern California coast. Habitat includes open grassy areas, chaparral, scrub, and meadows. Requires suitable nesting sites for the colonies, availability of nectar and pollen from floral resources throughout the duration of the colony period (spring, summer, and fall), and suitable overwintering sites for the queens.	Not expected to occur. The project area is outside of this species' current range.
Mammals	1			
Alameda Island mole Scapanus latimanus parvus	-	SSC	Valley and foothill grassland. Only known from Alameda Island. Found in a variety of habitats, especially annual and perennial grasslands. Prefers moist, friable soils. avoids flooded soils.	Not expected to occur. Although Sausalito is within the historic range for western bumble bee, the species has undergone a decline and is no longer found in the San Francisco bay area (CDFW 2023).

Name	Federal Status ¹	State Status ¹	Habitat	Potential to Occur in the Survey Area
American badger Taxidea taxus	_	SSC	Most abundant in drier open stages of most shrub, forest, and herbaceous habitats, with friable soils. Needs sufficient food, friable soils and open, uncultivated ground. Preys on burrowing rodents. Digs burrows.	Not expected to occur. Habitat is poor-quality for American badger in the project area, and this species does not tolerate high levels of human disturbance such as would be found in Sausalito.
Pallid bat Antrozous pallidus	_	SSC	Most common in open, dry habitats with rocky areas for roosting. Tree roosting has also been documented in large conifer snags, inside basal hollows of redwoods and giant sequoias, and bole cavities in oaks. Roosts must protect bats from high temperatures. Very sensitive to disturbance of roosting sites.	May occur. Pallid bat may be found roosting in large diameter trees on site or in abandoned structures.
Point Reyes jumping mouse Zapus trinotatus orarius	_	SSC	Primarily in bunch grass marshes on the uplands of Point Reyes. Also present in coastal scrub, grassland, and meadows. Eats mainly grass seeds with some insects and fruit taken. Builds grassy nests on ground under vegetation, burrows in winter	Not expected to occur. Habitat suitable for this species is not present in or near the project area.
Salt-marsh harvest mouse Reithrodontomys raviventris	FE	SE, FP	Only in the saline emergent wetlands of San Francisco Bay and its tributaries. Pickleweed is primary habitat, but may occur in other marsh vegetation types and in adjacent upland areas. Does not burrow, build loosely organized nests. Requires higher areas for flood escape.	Not expected to occur. Habitat suitable for this species is not present in or near the project area.
Salt-marsh wandering shrew Sorex vagrans halicoetes	_	SSC	Salt marshes of the south arm of San Francisco Bay. Medium high marsh 6-8 feet above sea level where abundant driftwood is scattered among pickleweed (Salicornia spp.).	Not expected to occur. Habitat suitable for this species is not present in or near the project area.
San Pablo vole Microtus californicus sanpabloensis	_	SSC		Not expected to occur. Habitat suitable for this species is not present in or near the project area.
Southern sea otter Enhydra lutris nereis	FT	FP	Protected deepwater coastal communities. Nearshore marine environments from about Ano Nuevo, San Mateo County to Point Sal, Santa Barbara County. Needs canopies of giant kelp and bull kelp for rafting and feeding. Prefers rocky substrates with abundant invertebrates.	Not expected to occur. Habitat suitable for this species is not present in or near the project area.

Name	Federal Status ¹	State Status ¹	Habitat	Potential to Occur in the Survey Area
Townsend's big-eared bat Corynorhinus townsendii	_	SSC	Throughout California in a wide variety of habitats. Most common in mesic sites. Requires large cavities for roosting, which may include abandoned buildings and mines, caves, and basal cavities of trees. Roosts in the open, hanging from walls and ceilings. Roosting sites limiting. Extremely sensitive to human disturbance.	May occur. Townsend's big-eared bat may be found roosting in large diameter trees or in abandoned structures.
Western red bat Lasiurus frantzii	_	SSC	Cismontane woodland, lower montane coniferous forest, riparian forest, riparian woodland Roosts primarily in trees, 2–40 feet above ground, from sea level up through mixed conifer forests. Prefers habitat edges and mosaics with trees that are protected from above and open below with open areas for foraging.	Not expected to occur. Habitat suitable for this species (woodland or forest for roosting) is not present in or near the project area.

General references: Unless otherwise noted all habitat and distribution data provided by CNDDB.

Note: CNDDB = California Natural Diversity Database.

¹ Legal Status Definitions

Federal:

- FE Endangered (legally protected)
- FT Threatened (legally protected)

State:

- SE Endangered (legally protected)
- ST Threatened (legally protected)
- FP Fully protected (legally protected)
- SSC Species of special concern (no formal protection other than CEQA consideration)

² Potential for Occurrence Definitions

Not expected to occur: Species is unlikely to be present in the plan area due to poor habitat quality, lack of suitable habitat features, or restricted current distribution of the species.

May occur: Suitable habitat is available in the plan area; however, there are little to no other indicators that the species might be present.

Likely to occur: All of the species life history requirements can be met by habitat present on the site, and populations/occurrences are known to occur in the immediate vicinity.

Present. Species observed within the study area.

Source: CNDDB 2024; USFWS 2024.

Appendix D

Archaeological Survey Report



2681 Cleveland Avenue Santa Rosa, CA 95403

ARCHAEOLOGICAL SURVEY REPORT

for

ASCENT CITY OF SAUSALITO BIRDGEWAY COMMONS CONDOMINIUMS PROJECT SAUSALITO, MARIN COUNTY, CA

APN 064-151-02 and 064-151-03

Prepared for:

Ms. Feng Xue SY Jardines Lookout LLC 1755 Bridgeway Sausalito, CA 94965

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Project No. ALTA2024-272

Key Words: USGS 7.5' San Francisco North Quadrangle; 0.57acre survey area; Township 1S, Range 6W, unsectioned portion of Rancho Saucelito, Mount Diablo Base and Meridian; Negative.

DBE | WOBE | WBE | SBE | GSA

11/20/2024

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ATTACHMENTS

Attachment A – Records Search Results Attachment B – Native American Outreach Attachment C – Photo Sheet

I. SUMMARY OF FINDINGS

The following Archaeological Survey Report (ASR) documents the adequacy of identification efforts and presents the results of investigations within the limits of the proposed project area (Project Area). The study was completed to identify any cultural resources that may be present on the property and to address the requirements of the California Environmental Quality Act (CEQA). Fieldwork was conducted on November 15, 2024 by Jamie Frattarelli and Owen Knight. The survey entailed a cultural resources inventory of the Project Area, approximately 0.57 acres. No cultural resources were identified as a result of archaeological field survey. The project, as presently designed, is not anticipated to have an adverse effect of historic properties.

II. INTRODUCTION

Alta Archaeological Consulting (ALTA) was retained to conduct a cultural resources inventory as part of the permitting process for the construction of a two-building, multi-unit residential development. An archaeological field survey was completed by ALTA and the Federated Indians of the Graton Rancheria (FIGR) on November 15, 2024 for the purpose of identifying cultural resources within the Project Area. The entire parcel was surveyed totaling approximately 0.57 acres. No cultural or historical resources were identified within the Project Area. The following ASR documents the adequacy of identification efforts, presents the results of investigations within the Project Area boundaries, and makes recommendations for management of resources present on the property. This report addresses the responsibilities of the California Environmental Quality Act (CEQA), as codified in Public Resources Code sections 5097, and its implementing guidelines 21082 and 21083.2. For the purposes of this project, the City of Sausalito is the lead agency for CEQA.

III. PROJECT LOCATION AND DESCRIPTION

The project is located in a residential area in the northern portion of the city of Sausalito in Marin County, California (Figure 1). It is depicted on the USGS 7.5' San Francisco North Quadrangle, in an unsectioned portion of Rancho Saucelito of Township 1 South, Range 6 West, in the Mount Diablo Base and Meridian (Figure 2). The project is set on two parcels totaling 0.57 acres (064-151-02, 064-151-03). The physical address of the parcel is 1751-1757 Bridgeway Boulevard and 160 Filbert Avenue in Sausalito, California. The Project Area is located in a developed residential parcel 0.1 miles southwest of Richardson Bay (Figure 3).

The project proponent is in the process of completing an application for a Conditional Use Permit in order to construct a two-building, multi-unit residential development. The project will include a three-story building on the northern parcel, with residential units on the top two floors and a parking garage on the first floor. The second building is planned to be five stories located to the south near Filbert Street. The building will have residential units on the top three floors, and additional spaces including a garage and lobby. Site improvements will also include landscaping, hardscaping, and related infrastructure.

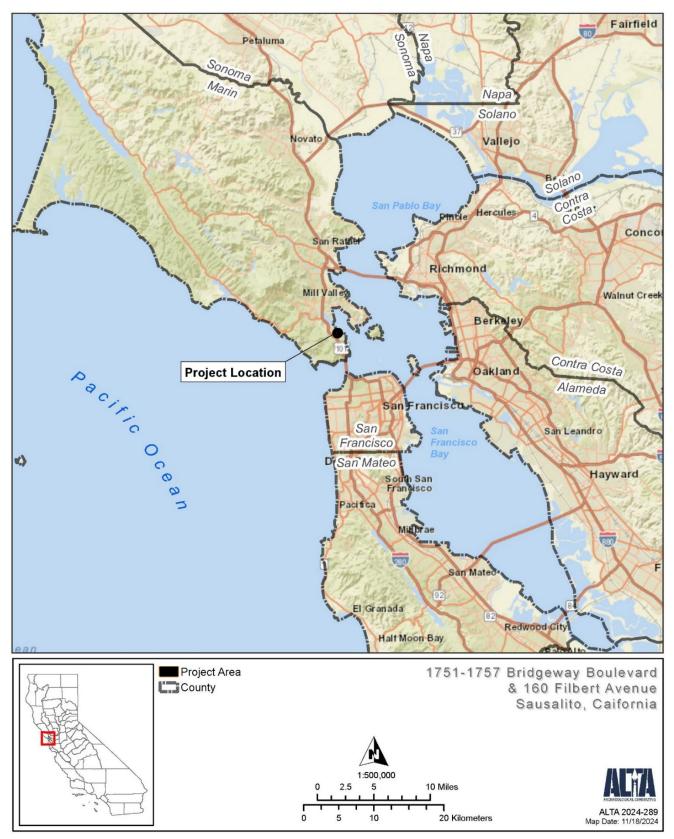


Figure 1. Project Vicinity

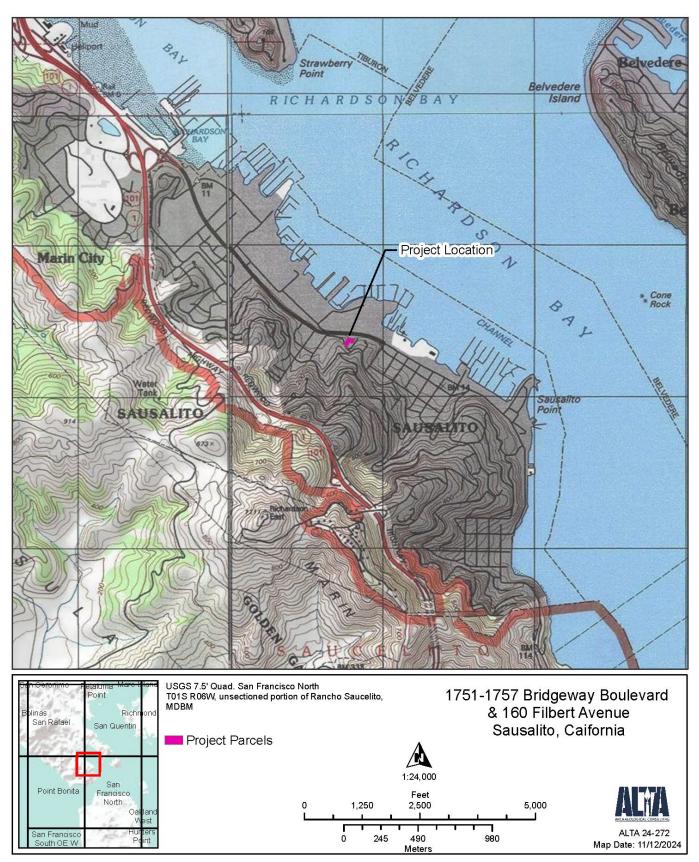


Figure 2. Project Location



Figure 3. Project Area

IV. REGULATORY CONTEXT

This section briefly discusses the nature and extent of State regulations that apply to the Project. As part of the compliance process, the Project must comply with: CEQA as amended, and its implementing regulations and guidelines, codified in Title 14 of the California Code of Regulations (CCR), which provide agencies guidance for compliance with environmental regulations.

CEQA applies to certain projects undertaken requiring approval by State and/or local agencies. Property owners, planners, developers, as well as State and local agencies are responsible for complying with CEQA's requirements regarding the identification and treatment of historic and prehistoric cultural resources. Under CEQA, cultural resources must be evaluated to determine their eligibility for listing in the California Register of Historic Resources (CRHR). If a cultural resource is determined *ineligible* for listing on the CRHR the resource is released from management responsibilities and a project can proceed without further cultural resource considerations.

As set forth in Section 5024.1(c) of the Public Resources Code for a cultural resource to be deemed "important" under CEQA and thus eligible for listing on the CRHR, it must meet at least one of the following criteria:

- 1. is associated with events that have made a significant contribution to the broad patterns of California History and cultural heritage; or
- 2. is associated with the lives of persons important to our past; or
- 3. embodies the distinctive characteristics of a type, period, region, or method of construction, or represents the work of an important creative individual, or possess high artistic value; or
- 4. has yielded or is likely to yield, information important to prehistory or history.

Guidelines for the implementation of CEQA define procedures, types of activities, persons, and public agencies required to comply with CEQA. Section 15064.5(b) prescribes that project effects that would "cause a substantial adverse change in the significance of an historical resource" are significant effects on the environment. Substantial adverse changes include both physical changes to the historical resource, or to its immediate surroundings.

Section 21083.2 of the CEQA guidelines also defines "unique archaeological resources" as "any archaeological artifact, object, or site about which it can be clearly demonstrated that, without merely adding to the current body of knowledge, there is a high probability that it meets any of the following criteria:

- Contains information needed to answer important scientific research questions and show that there is a demonstrable public interest in that information.
- Has a special and particular quality, such as being the oldest of its type or the best available example of its type.
- Is directly associated with a scientifically recognized important prehistoric or historic event or person."

This definition is equally applicable to recognizing "a unique paleontological resource or site." CEQA Section 15064.5 (a)(3)(D), which indicates "generally, a resource shall be considered historically significant if it has yielded, or may be likely to yield, information important in prehistory or history," provides additional guidance.

V. BACKGROUND

As the significance of cultural resources is best assessed with regard to environmental and cultural contexts, descriptions of the natural and cultural setting of the project region are presented below.

Environment

The Project Area is located in the city of Sausalito, in southern Marin County, with elevations varying from approximately 20 to 70 feet above mean sea level. It is situated on the southwestern side of Richardson Bay on the eastern edge of the Marin Peninsula. The nearest water source is Richardson Bay, which is 800 feet east of the Project Area. The Project Area is an urban residential lot populated with native and nonnative annual and perennial grasses. Trees in the Project Area consist of California bay laurel (*Umbellularia californica*), Chinese elm (*Ulmus parvifolia*), common camelia (*Camellia japonica*), and other ornamental and fruit trees incorporated in the landscaping (Little 1980). This area is characterized by a Mediterranean climate that averages between 25-35 inches of rainfall annually (United States Department of Agriculture 2003). The winters are cool and wet, and the summers are warm and dry.

Archaeological Context

Archaeological and regulatory literature has often used the terms "prehistory" or "prehistoric" to describe the period before the arrival of Euro-American colonists. Traditionally, these terms have been employed to differentiate between cultures with and without written records, labeling those without writing as "prehistoric." However, this distinction is based on a Eurocentric perspective and carries a negative connotation, suggesting that Native American groups lack memory of their own history and that their cultures do not persist today—both of which are incorrect. In recognition of the agency and ongoing cultural identity of Native Americans, and acknowledging the significant impact of colonization on their societies, non-regulatory discussions of resources predating Euro-American colonization throughout this report uses the term "precontact."

Over thousands of years, the hunter–gatherer–fisher peoples of the San Francisco Bay Area created a rich and diverse archaeological record. The development of complex hunter-gatherer societies in the Bay Area first appears about 4,000 years ago (Chartkoff and Chartkoff 1984:227–237; Milliken et al. 2007; Moratto 2004:281–283). Cultural complexity, social stratification, population density, and resource intensification increase through time. Proto-Utian groups, speakers of Costanoan and Miwok languages, are thought to have entered the Bay Area through the Delta Region about 4,500 years ago displacing Hokan speakers within this vicinity (Moratto 2004:293).

Three major taxonomic systems have been developed for the San Francisco Bay Area. These include (1) the Central California Taxonomic System, (2) the Archaic-Emergent Culture History Scheme, and (3) a Hybrid System that combines aspects of several schemes. The Central California Taxonomic System (CCTS) attempted to create horizons based on temporally diagnostic artifacts and mortuary customs (Beardsley 1948, 1954; Gerow 1954, 1974; Lillard et al. 1939). Three horizons were defined- Early, Middle, and Late. After the invention of radiocarbon dating technology in the 1950s, archaeologists attempted to test the relative sequence of the CCTS with chronometric dates (Fredrickson 1973, 1974; Heizer 1958; Ragir 1972). These studies found that the horizon system in the CCTS did not allow for regional and cultural inconsistencies, and overstating the relationship between region and temporal change in artifacts (White et al. 2002).

The Archaic-Emergent Culture History Scheme (AECHS) attempted to refine the variation of relative chronologies into defined cultural units. Patterns are basic economic/cultural adaptations that are bound geographically, as were the three horizons of CCTS. Aspects are smaller-scale variants of patterns, which represent regional adaptations and styles and are bound more temporally. Phases are smaller scale variants of aspects, based on similarities and differences within related artifact types and trends (Bennyhoff and Fredrickson 1994). This taxonomic system has largely defined Bay Area archaeology, and can be broken into four distinct patterns: the Borax Lake Pattern, the Windmiller Pattern, the Berkeley Pattern, and the Augustine Pattern. These patterns define distinct temporal regional trends in diet, tool manufacture, trade, and ceremonial artifacts.

Later studies have advocated for a hybrid of CCTS and AECHS. This system utilizes the Early-Middle-Late structure proposed in CCTS, while including cultural units of patterns, aspects and phases. These specific cultural units have been demonstrated through current shell bead chronology studies within the Bay Area, referred to as Dating Scheme D (Groza 2002; Groza et al. 2011). Temporally distinct shell beads made of the purple olive snail (Olivella sp.) were widely traded beginning in the middle Holocene, extending as far as the central Great Basin. Because these are widely-distributed, relatively resilient organic artifacts, they have served as subjects for radiometric dating studies in order to solidify dates within relative chronologies throughout California and the Great Basin (Bennyhoff and Hughes 1987; Vellanoweth 2001). These radiometric studies have resulted in the development of relative and exact chronologies, known widely as dating schemes.

Dating Scheme D refines Bennyhoff and Hughes's (1987) Scheme B1, which itself refined Heizer's (1958) Scheme A. While Scheme A was based on radiocarbon dates from 17 samples, and Scheme B was based on 180 uncalibrated dates from varied artifacts, Scheme D is based on 140 AMS radiocarbon dates from beads made of Olivella shells and radiometric dates from five mass bead-lots. Groza's work advanced the chronology of many bead types by as much as 200 years forward (Milliken et al. 2007). These beads only represent units of time, not exact chronology. Accordingly, they have no implications for cultures specifically, but are used to identify relative chronology. These units of time are referred to as bead style horizons (Groza et al. 2011:18). In the present investigation, we intend to use this hybrid system that adopts conventional terminology consistent with the Scheme D dating sequence, with bead style horizons labeled within the Early, Middle, and Late Periods and based on the bead type nomenclature established by Milliken et al. (2007) and Groza et al. (2011).

During the Early Holocene/Lower Archaic (8000-3500 B.C), peoples practiced a mobile foraging lifestyle. Material culture associated with this time includes generally large wide–stemmed and leaf–shaped projectile points associated with atlatls, milling slabs, and handstones. These artifacts, paired with archaeobotanical evidence, suggests a mixed economy of game hunting, acorn processing, and diversified use of floral and faunal resources (Milliken et al. 2007:114). The Early Period/Middle Archaic (3500-500 B.C.) heralded an increase in sedentism, marked materially by the spread of the less–portable mortar and pestle. This period also saw a flourishing of shell bead types in burial lots, particularly rectangular cut beads (Groza et al. 2011:144–145; Milliken et al. 2007:114–115).

The Lower Middle Period/Initial Upper Archaic (500 B.C.-A.D. 430) is characterized by an abrupt disappearance of rectangular shell beads from the Bay Area as well as central and southern California. These were replaced by new round types such as split–beveled and tiny saucer Olivella beads, which Groza et al. (2011) classify as Bead Horizon M1. As such, a bead trading economy seems to have taken off at this time. Mortar and pestle milling technology continued to spread, leaving milling slab technology mostly confined to coastal sites (Milliken et al. 2007:115–116).

The saucer bead trade economy seems to have abruptly collapsed during the Upper Middle Period/Late Upper Archaic (A.D. 430-1050). Many bead–manufacturing sites dating to Bead Horizon M1 were abandoned at this time. Bead Horizon M2, characterized by wide chipped– and ground–edge Olivella saddle beads, generally replaced the saucer beads of Bead Horizon 1 (Groza et al. 2011:146–147). Additionally, burial practices identified as the Meganos Aspect began to appear in the East Bay. This aspect, defined by extended burials, replaced flexed burials of previous times. Saucer beads decrease dramatically in these burial contexts over time (Milliken et al. 2007:116).

The cultural practices of California Native peoples documented by Spanish colonists in the 1500s originate in the traditions of the Initial Late Period/Lower Emergent (A.D. 1050-1550). This time saw an increase in prestige items in burial contexts, suggesting an increase in social stratification. Accordingly, the Middle/Late Transition Bead Horizon (Groza et al. 2011:148–149) demonstrates the widest diversity of Olivella bead types in California prehistory, including many shapes of split, shelved, saucer, and sequin beads in punched and perforated varieties. The advent of the bow and arrow occurred during this time, represented in central California by the Stockton

serrated series (Milliken et al. 2007:117). This reduction of projectile point size corresponds with an increase in manufacturing of finished points from Napa Glass Mountain obsidian at locations distant from the material source. Other items, including the flanged pipe, the Olivella callus cup bead, and the abalone "banjo" or "big head" pendant, appear at this time, indicating an elaboration of ritual and ceremonial practice (Milliken et al. 2007:116–117). These trends all point towards a further increase in sedentism.

The arrival of the Spanish during the Terminal Late Period (post-A.D. 1550) coincided with the abandonment of the Olivella sequin and cup beads, replaced by lipped and spire–lopped types. The Bay Area saw an explosion of technological and material culture innovation at this time, including the "toggle harpoon, hopper mortar, plain corner–notched arrow–sized projectile point, clamshell disk beads, [and] magnesite tube beads" (Milliken et al. 2007:117).

Ethnography

The Coast Miwok, who lived in this region prior to European-American intrusion, were distributed across Sonoma and Marin Counties. The following ethnographic summary is not intended as a thorough description of Coast Miwok culture but instead is meant to provide a background to the present cultural resource investigation with specific references to the Project Area. In this section, the past tense is sometimes used when referring to native peoples because this is a historical study. This convention is not intended to suggest that Coast Miwok people only existed in the past. To the contrary, the Coast Miwok groups all have strong cultural and social identities today.

The Coast Miwok were one of the California Penutian Language speaking groups and closely related to the Lake Miwok (Kelly 1978:414). The Coast Miwok occupied the northwest coast of California from the mouth of the Golden Gate in the south, to approximately 5 miles north of Bodega Bay in the north, to approximately 4 miles east of Sonoma Creek (Barrett 1908; Kelly 1978). Barrett (1908) divides Coast Miwok speakers into two distinct dialects: Western/Bodega and Southern/Marin.

There were historically 44 recorded villages within the Coast Miwok territory, many of which provide present place names (Kelly 1978:415). Ethnographic accounts indicate that the Coast Miwok lived in large villages, each of which had a headman, but cannot be said to have a universal tribal organization. According to informant Tom Smith, a headman (*hóypuh*), a "woman chief" (*hóypuh kulé(·)yih*) and a third female leader (*máien*) split responsibilities of tending to people and organizing religious ceremonies (Kelly 1978:419).

The Coast Miwok were among the first California Native peoples to encounter Euro-Americans, meeting Sir Francis Drake in 1579. During the late eighteenth and early nineteenth century, many Coast Miwok people were subjected to missionization at San Francisco, San Rafael, and Sonoma, as well as labor at Fort Ross under the Russians. In 1850, a year after the end of the American conquest of California, the Coast Miwok population was estimated at 250 (Kelly 1978:414).

The Coast Miwok followed a cyclical pattern of subsistence, exploiting resources that were available on a seasonal basis. They practiced a diversified subsistence economy based on fishing, hunting and gathering with a particular dependence on acorns. Important marine resources included fish, eels, clams, mussels, and seaweed, while terrestrial resources included acorns, bear, deer, elk, and small game (Kelly 1978:416). The Coast Miwok had a rich culture of religion, ritual and dance, with music and games being a large part of their cultural expression.

History

Early Exploration and Settlement

The earliest exploration of the Marin coast was possibly during Sir Francis Drake's 1579 voyage up and down the western coast of North America. He named northern California New Albion after his homeland, with the intent

of securing the area for the British crown (Dodge 1892). The Spanish made a foray into the area in 1602 with three ships under the command of Don Sebastian Vizcaino. However, the definitive discovery of the San Francisco Bay did not occur until 1769, when the Portola-Crespi party arrived by land. The party became the first non-Native peoples to see the San Francisco Bay. In 1775, the Spanish ship *San Carlo*, captained by Juan Manuel de Ayala anchored off present-day Sausalito and named it "Saucito," which means "little willow grove" in Spanish, due to the abundance of willow trees along the shoreline (Sausalito Historical Society 2015).

The Mexican Period

Following the Mexican War of Independence, the land came under Mexican control in 1821. In the early 19th century, the Mexican government granted vast tracts of land to prominent individuals, establishing a system of ranchos. One such notable land grant was the Saucelito Rancho, which encompassed the area that is now Sausalito. In 1838, William Richardson, an English-born sailor and merchant, was awarded the Saucelito Rancho as a land grant (Sausalito Historical Society 2015). Richardson built an adobe hacienda near present-day downtown Sausalito.

The American Period

After California's transition from Mexican to American control following the Mexican-American War in 1848, the Saucelito Rancho was confirmed by the US District Court in 1853 (Munro-Fraser 1880:192). However, by 1868, Richardson had gone bankrupt, and most of the land fell into the hands of his attorney, Samuel Throckmorton. The Sausalito Land and Ferry Company, owned by Throckmorton, laid out the town and subdivided lots for future development (Sausalito Historical Society 2015). Prior to the construction of the Golden Gate Bridge in 1937, ferries running across the bay were the main method of travel and transport between the North Bay and San Francisco. The Sausalito Ferry was a major shipping hub, which connected with the railroad network stretching throughout northern California.

As the railroad industry declined in the late 19th century, Sausalito's economy shifted toward shipbuilding and manufacturing. The town witnessed the establishment of several shipyards, including the celebrated Marinship Corporation, during World War II. These shipyards contributed to the production of Liberty ships and other vessels for the war effort, and brought a massive influx of workers to the community (Sausalito Historical Society 2015). In the post-war era, Sausalito became known primarily for its creative community, natural beauty, and proximity to San Francisco.

VI. SOURCES CONSULTED

Records Search

On November 7, 2024, ALTA archaeologist Jamie Frattarelli conducted a records search (File Number 24-0638) at the Northwest Information Center (NWIC) located on the campus of Sonoma State University. The NWIC, an affiliate of the State of California Office of Historic Preservation is the official state repository of archaeological and historical records and reports for an 18-county area that includes Marin County. The records search included a review of all study reports and resources on file within a quarter-mile radius of the Project Area. Sources consulted include archaeological site and survey base maps, survey reports, site records, and historic General Land Office (GLO) maps.

Included in the review were:

- California Inventory of Historical Resources (CA Dept. of Parks and Rec. 1976)
- California Historical Landmarks for Marin County (CA-OHP 1990)
- California Points of Historical Interest (CA-OHP 1992)
- Built Environment Resources Directory Listing (BERD) (CA-OHP January 2020)

• Historic Properties Directory (CA-OHP April 2012), including the National Register of Historic Places, California Historical Landmarks, and California Points of Historical Interest

Review of historic registers and inventories indicate that no California Historical Landmarks or Points of Interest are present in the Project Area. One National Register listed is located within the half-mile visual area of the Project Area. The Marinship Machine Shop is located approximately 0.15 miles to the northwest.

Review of archaeological site and survey maps revealed that five cultural resource studies have been previously performed within a quarter-mile radius of the Project Area (Table 1). Approximately 10% of the quarter-mile records search radius has been previously surveyed. No studies have been conducted within the Project Area.

Report No.	Authors	Year	Description
S-002150	Stephen A. Brandt	1980	Cultural Resources Investigation of Operating Projects, Corps of Engineers Base Yard Facility, Sausalito.
S-011565	Laurence H. Shoup	1990	Historical Overview and National Register of Historical Places Significance Evaluation of the Napa Street Pier, Sausalito, California
S-011565	Thompson F. Keesling and Kathryn Gualtieri	1990	COE891211A: Re: Napa Street Pier, Sausalito
S-013217	Thomas M. Origer	1990	An Archaeological Survey for the AT&T Fiber Optics Cable, San Francisco to Point Arena, California
S-013217	Thomas M. Origer	1990	Archaeological findings regarding a selection of a route through Novato for the AT&T Fiber Optics Cable (letter report)
S-013217	Thomas M. Origer	1991	An archaeological study of revised portions of the AT&T route near Santa Rosa and Sausalito (letter report)
S-013217	Thomas M. Origer	1991	Archaeological study of AT&T revised fiber cable routes (letter report)
S-013217	Thomas M. Origer	1992	Archaeological survey of alternative fiber optics cable routes, Point Arena (letter report)
S-024767	William Roop	2001	A Cultural Resources Evaluation of the Sausalito Marine Land Exchange and Development Project, Bridgeway Boulevard, Sausalito, Marin County, California
S-036164	Cassandra Chattan and Sally Evans	2009	A Cultural Resources Evaluation of 300 Locust Street, Sausalito, Marin County, California

Table 1. Summary of Previous Cultural Resources Studies within Search Radius

One historic-era (P-21-000501O) and one precontact (P-21-002670) cultural resource are documented within a quarter-mile radius of the Project Area. These are summarized in Table 2 below. There are no cultural resources documented within the Project Area.

Table 2. Summary of Documented Cultural Resources within Search Radius

Primary No.	Trinomial	Age	Description
P-21-000501	CA-MRN-000574H	Historic	Napa Street Pier
P-21-002670		Prehistoric	Disturbed midden soil

P-21-000501 is the historic-era remains of the Napa Street Pier. This site is located 0.15 miles northeast of the Project Area.

P-21-002670 is disturbed midden soils relocated from CA-MRN-03 (Evans 2009). This site is located 0.45 miles east of the Project Area.

Historic Map Review

Review of historic maps of the area was completed to better understand the timing of development within the Project Area and recognize historic features. The following sources were consulted.

- Austin, Hiram, and F. Whitney. 1873. Map of Marin County, California, 1:63,360. A. L. Bancroft and Company Lithographers, San Francisco.
- Dodge, George M. 1892. Official Map of Marin County, California, 1:48,000. Schmidt Label & Lith Co., San Francisco.
- Lewis, Wm. J. 1858. Plat of the Rancho Saucelito, finally confirmed to Wm. A. Richardson, 1:19,685. United States Surveyor General, San Francisco, CA.
- United States District Court. 184AD. Diseño del Rancho Saucelito: Marin Co., Calif, 1:11,400. Berkeley, CA. Bancroft Library.
- United States Geological Survey. 1895. San Francisco, CA. HTMC, 1:62,500. United States Geological Survey, Washington, D.C.
- United States Geological Survey. 1915. San Francisco, CA. HTMC, 1:62,500. United States Geological Survey, Washington, D.C.
- United States Geological Survey. 1950. San Francisco North, CA. HTMC, 1:250,000. United States Geological Survey, Washington, D.C.
- United States Geological Survey. 1956. San Francisco North, CA. HTMC, 1:24,000. United States Geological Survey, Washington, D.C.
- United States Geological Survey. 1993. San Francisco North, CA. HTMC, 1:24,000. United States Geological Survey, Washington, D.C.

The Project Area lies within the Rancho Saucelito land grant. The earliest plat of the Rancho solely depicts coastal landscape elements in the region of the Project Area (United States District Court 1847; Lewis 1858). The Project Area first appears clearly on the 1873 Map of Marin County (Austin and Whitney 1873). The Project Area is located within the Lands of the Saucelito Land and Ferry Company. The Northern Pacific Coast Railroad is depicted passing to the north of the Project Area terminating at New Saucelito. In addition, a road is shown constructed along the coast and around the town. A wharf and hotel are called out at the end of the railway line. By 1892, the location continues to be held by the Saucelito Land and Ferry Company which has been subdivided for future development (Dodge 1892). The spelling of the name of the town appears in its modern variation of Sausalito. The ferry route between Sausalito and San Francisco is shown prominently on the map (Dodge 1892). The 1895 USGS topographic map of the area shows the development along the coast in Sausalito, as well as a scattering of structures depicted along the hillsides, including around the Project Area (United States Geological Survey 1895). By 1915, more development is shown throughout Sausalito, as well as the installation at Fort Baker (United States Geological Survey 1915). Even more structures are shown within Sausalito, reflecting the increased population and development. By 1950, the Golden Gate Bridge and Highway 101 are shown crossing over to San Francisco (United States Geological Survey 1950). Sausalito has continued to spread into the hills to the west and south, and the area around the Project Area is shown as densely developed. In proceeding maps, the ferry line from Sausalito Point is no longer shown, as development appears more focused around the roads in the area. (United States Geological Survey 1956, 1993).

Ethnographic Literature Review

Available ethnographic literature was reviewed to identify cultural resources in the vicinity of the Project Area. The following sources were consulted.

- Kelly, Isabel. 1978. Coast Miwok. In *California*, edited by Robert F. Heizer, pp. 414–425. Handbook of North American Indians 8. Smithsonian Institution, Washington, D.C.
- Merriam, C. Hart. 1907. Distribution and Classification of the Mewan Stock of California. *American Anthropologist* 9(2):338–357.
- Slaymaker, Charles M. 1982. A Model for the Study of Coast Miwok Ethnogeography. Unpublished PhD dissertation, University of California, Davis, CA.

Merriam identifies the linguistic subgroup of Coast Miwok speakers in the southern Marin region as Hoo'-kooe'-ko (Merriam 1907:355–356). However, Slaymaker (1982:342) identifies the group as the Huimen. This group lived along the bay coast of southern Marin, down to the Golden Gate, including Sausalito and the Project Area. The nearest ethnographically identified habitation site to the Project Area is liwanelowa, located south of the city of Sausalito, southwest of Sausalito Point. This site is likely within a mile of the Project Area (Kelly 1978:415).

Native American Outreach

Assembly Bill 52, which went into effect in July 2015, is an amendment to CEQA Section 5097.94 of the Public Resources Code. AB52 established a proactive communication process with all California Native American tribes identified by the Native American Heritage Commission (NAHC) with cultural ties to an area. This process is implemented on projects that file a notice of preparation for an EIR or notice of intent to adopt a negative or mitigated negative declaration. Under AB52, the Lead Agency is required to consult with tribes at tribal request. The bill further created a new class of resources under CEQA known as Tribal Cultural Resources (TCRs). Consultation under AB 52 is undertaken by the Lead Agency, and is a government-to-government process. Native American outreach undertaken by ALTA for this project does not constitute formal consultation.

Ascent Environmental employee, Alta Cunningham, contacted the NAHC to request a review of the Sacred Lands file for information on Native American cultural resources in the Project Area and to request a list of Native American contacts in this area. In the NAHC response dated July 12, 2024, Cody Campagne (Cultural Resources Analyst) indicated that a search of the Sacred Lands File returned a <u>positive</u> result. The NAHC requested that the Federated Tribes of Graton Rancheria (FIGR) be contacted regarding the project. The NAHC also forwarded a list of suggested tribal entities to contact for their input or concerns regarding the project.

On November 12, 2024, a communication was sent to Buffy McQuillan, the Tribal Historic Preservation Officer (THPO) of FIGR. Attachment B provides copies of the Native American correspondences. Owen Knight, Tribal Monitor with the FIGR, participated in the archaeological field survey of the Project Area.

VII. FIELD METHODS

ALTA staff archaeologist Jamie Frattarelli and FIGR Tribal Monitor Owen Knight, conducted a field survey of the Project Area on November 15, 2024. Project design drawing, project maps and aerial imagery were used to correctly identify the Project Area. Ground surface visibility was poor, about 10%, throughout the survey area due to the built environment, landscaping, dense grass, and leaf duff. The full Project Area was surveyed, totaling

0.56 acres of land (Figure 4). The Project Area was surveyed using intensive survey coverage with transects no greater than 10-meter intervals. A shovel was used to expose the ground and examine soils at regular 10-meter intervals during pedestrian survey. Digital photos were taken of the Project Area and surroundings (Attachment C).

VIII. STUDY FINDINGS AND MANAGEMENT RECOMMENDATIONS

Study Findings

As previously discussed in section IV, this cultural resources inventory was conducted to address the responsibilities of CEQA, as codified in Public Resource Code sections 5097, and its implementing guidelines 21082 and 21083.2. No cultural resources were identified within the Project Area as a result of the records search, literature review, Native American outreach, or archaeological field survey. Shell fragments were found on the ground surface within two garden areas. The source of the shell appeared to be abalone and clam embedded in concrete retaining walls, and related to modern occupation of the Project Area. These items were likely brought into the area during modern times and do not represent archaeological materials.

As designed, the project <u>will not cause</u> a substantial adverse change in the significance of a Tribal cultural resource, defined in Public Resources Code section 21074 as either site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe. The project <u>will not cause</u> a substantial adverse change in the significance of a historical resource as defined in § 15064.5.

Management Recommendations

We make the following recommendations to ensure that cultural resources are not adversely affected by the proposed project. As presently designed, the project is not expected to have an adverse effect on cultural resources.

Unanticipated Discovery of Cultural Resources

If previously unidentified cultural resources are encountered during project implementation, avoid altering the materials and their stratigraphic context. A qualified professional archaeologist should be contacted to evaluate the situation. Project personnel should not collect cultural resources. Resources associated with Native peoples include, but are not limited to, chert or obsidian flakes, projectile points, mortars, pestles, and dark friable soil containing shell and bone dietary debris, heat-affected rock, or human burials. Historic resources include stone or abode foundations or walls; structures and remains with square nails; and refuse deposits or bottle dumps, often located in old wells or privies.

Encountering Native American Remains

As defined in California Health and Safety Code Section 7050.5, if human remains are encountered, all work must stop in the immediate vicinity of the discovered remains and the County Coroner and a qualified archaeologist must be notified immediately so that an evaluation can be performed. If the remains are deemed to be Native American and prehistoric, per PRC 5097.98, the Native American Heritage Commission must be contacted by the Coroner so that a "Most Likely Descendant" can be designated and further recommendations regarding treatment of the remains is provided.



Figure 4. Survey Coverage

IX. REFERENCES CITED

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2681 Cleveland Avenue Santa Rosa, CA 95403

Attachment A Records Search Results

ASCENT CITY OF SAUSALITO BIRDGEWAY COMMONS CONDOMINIUMS PROJECT SAUSALITO, MARIN COUNTY, CALIFORNIA

Confidential Information

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DBE | WOBE | WBE | SBE | GSA

HISTORICAL	ALAMEDA HUMBOLDT COLUSA LAKE CONTRA COSTA MARIN DEL NORTE MONTEREY NAPA SAN BENITO	SAN FRANCISCO SAN MATEO SANTA CLARA SANTA CRUZ SOLANO SONOMA YOLO	Northwest Information Center Sonoma State University 1400 Valley House Drive, Suite 210 Rohnert Park, California 94928-3609 Tel: 707.588.8455 nwic@sonoma.edu https://nwic.sonoma.edu		
NWIC Billing Worksheet IC File Number: 24-0683 Client Name: Jamie Fratterelli(Alta) Phone: (707) 775-1761					
Client Name: Jamie Fratterelli(Alta) Affiliation: Alta Archaeological Consulting	Phone:	(707) 775-1761 Email:	jamie@altaac.com		

Date Request Rec'd: 11/7/2	024	Date of Respons	e: 11/8/2	024
Check In: 1:09:00 PM Check Out:	2:56:00 PM Check In:		Check Out:	
In-person Time:	Hour(s):	1.78	\$	200.00
Staff Time:	Hour(s):	1	\$	150.00
Shape Files:	Number:	50	\$	600.00
Custom Map Features:	Number:		\$	0.00
Digital Database Record:	Number of Row(s):	285	\$	71.25
Quads:	Number:		\$	0.00
Address-mapped Flat Fee:			\$	0.00
Hard Copy (Xerox/Computer) Pages:	Page(s):		\$	0.00
Labor Charge:	Hour(s):		\$	0.00
PDF Pages:	Page(s):	2839	\$	425.85
PDF Flat Fee:			\$	0.00
Other: CHRIS Data Request			\$	0.00
		Subtota	1 \$	1447.10

Rapid response surcharge of 50% of total cost:	\$ 0.00
Total:	\$ 1447.10

Information Center Staff:	Dana Marty
Sonoma State University Customer ID:	0001001960
Sonoma State University Invoice No.:	
CHRIS Access and Use Agreement No.:	

This is not an invoice. Sonoma State University will send separate invoice.



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Attachment B Native American Outreach

ASCENT CITY OF SAUSALITO BIRDGEWAY COMMONS CONDOMINIUMS PROJECT SAUSALITO, MARIN COUNTY, CALIFORNIA

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CHAIRPERSON **Reginald Pagaling** Chumash

VICE-CHAIRPERSON **Buffy McQuillen** Yokayo Pomo, Yuki, Nomlaki

SECRETARY Sara Dutschke Miwok

Parliamentarian Wayne Nelson Luiseño

COMMISSIONER Isaac Bojorquez Ohlone-Costanoan

COMMISSIONER Stanley Rodriguez Kumeyaay

Commissioner Laurena Bolden Serrano

Commissioner **Reid Milanovich** Cahuilla

COMMISSIONER Bennae Calac Pauma-Yuima Band of Luiseño Indians

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

NATIVE AMERICAN HERITAGE COMMISSION

July 12, 2024

Alta Cunningham Ascent Environmental

Via Email to: alta.cunningham@ascentenvironmental.com

Re: 20240142.01 - Sausalito, City of - Bridgeway Commons Project, Marin County

To Whom It May Concern:

A record search of the Native American Heritage Commission (NAHC) Sacred Lands File (SLF) was completed for the information submitted for the above referenced project. The results were <u>positive</u>. Please contact the Federated Indians of Graton Rancheria on the attached list for information. Please note that tribes do not always record their sacred sites in the SLF, nor are they required to do so. A SLF search is not a substitute for consultation with tribes that are traditionally and culturally affiliated with a project's geographic area. Other sources of cultural resources should also be contacted for information regarding known and recorded sites, such as the appropriate regional California Historical Research Information System (CHRIS) archaeological Information Center for the presence of recorded archaeological 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. Please contact all of those listed; if they cannot supply information, they may 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 the NAHC. 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: <u>Cody.Campagne@nahc.ca.gov</u>.

Sincerely,

Cody Campagne

Cody Campagne Cultural Resources Analyst

Attachment

Page 1 of 1



November 12, 2024

Buffy McQuillen, Tribal Historic Preservation Officer The Federated Indians of Graton Rancheria 6400 Redwood Drive, Suite 300 Rohnert Park, CA 94928

Re: 1751-1757 Bridgeway Boulevard and 160 Filbert Avenue in Sausalito (ALTA24-272)

Dear Ms. McQuillen,

Alta Archaeological Consulting (ALTA) has been retained to complete an archaeological field survey at 1751-1757 Bridgeway Boulevard and 160 Filbert Avenue in Sausalito, California. The project proponent is applying for a permit in order to construct the Bridgeway Commons Development. The proposed project consists of a two-building, multi-unit residential development.

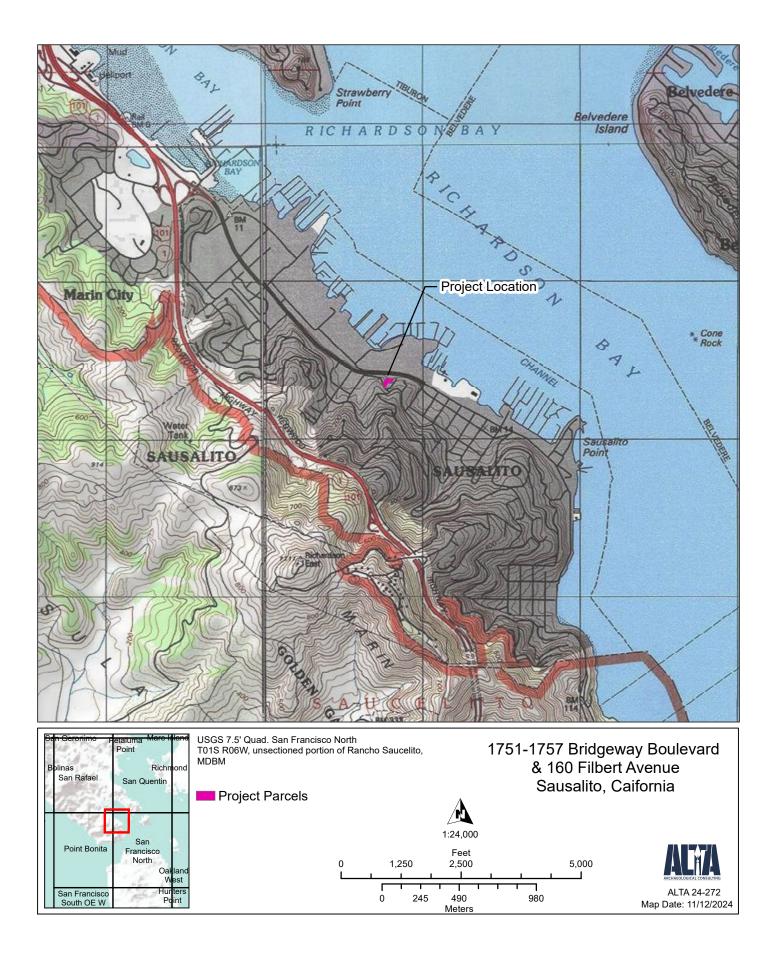
The project is located on two parcels (APN 064-151-02 and 064-151-03) totaling approximately 0.57 acres. It is situated on the USGS 7.5' San Francisco North Quadrangle in an unsectioned portion of Township 01 South, Range 6 West, in the Saucelito Land Grant, in the Mount Diablo Base and Meridian. The physical address of the project is 1751-1757 Bridgeway Boulevard and 160 Filbert Avenue in Sausalito, California.

The Native American Heritage Commission provided your name and contact information regarding this project. The search of the Sacred Lands File was positive. We are contacting you to inform you of the proposed project and to solicit your input or concerns about the protection of cultural resources within or near the proposed project. This letter does not constitute formal consultation with the lead agency. If you are interested in providing input on this project, please contact me at the address listed below.

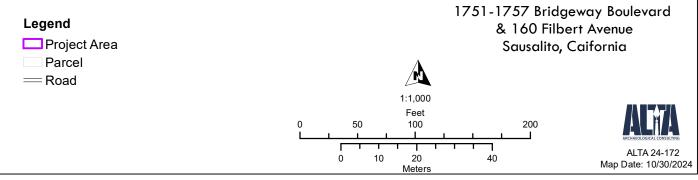
Sincerely,

Jamie Frattenki

Jamie Frattarelli, M.A., RPA Senior Archaeologist 2681 Cleveland Avenue Santa Rosa, CA 95403 jamie@altaac.com (707) 544-4206 office (707) 546-2135 fax









2681 Cleveland Avenue Santa Rosa, CA 95403

Attachment C Photo Sheet

ASCENT CITY OF SAUSALITO BIRDGEWAY COMMONS CONDOMINIUMS PROJECT SAUSALITO, MARIN COUNTY, CALIFORNIA

Confidential Information

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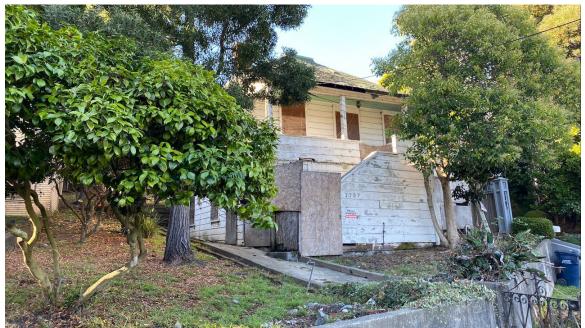
DBE | WOBE | WBE | SBE | GSA



15Nov24 08-58.0, view northeast, 11/15/2024, Project Area overview from Filbert Avenue to 160 Filbert Ave., low ground visibility due to structure, concrete, and landscaping.



15Nov24 09-29.0, view southeast, 11/15/2024, Overview of terraced hill in southeast corner of 1745 Bridgeway, shell embedded in terraced retaining wall, likely source of abalone shell fragment found in garden.



15Nov24 09-33.0, view southwest, 11/15/2024, Overview of building and landscaping at 1757 Bridgeway, structure, landscaping, leaf duff, and grass obscure ground visibility.



15Nov24 09-35.0, view southwest, 11/15/2024, Overview of side yard of 1751 Bridgeway, grass and leaf duff impeding ground visibility.



15Nov24 09-38.0, view south, 11/15/2024, Backyard of 160 Filbert Ave., grass, leaf duff, structure obscures ground visibility.



15Nov24 09-47.0, view west, 11/15/2024, Sparse scatter of clam shell fragments in garden surface of 1757 Bridgeway, clam shell embedded in concrete retaining wall likely source.



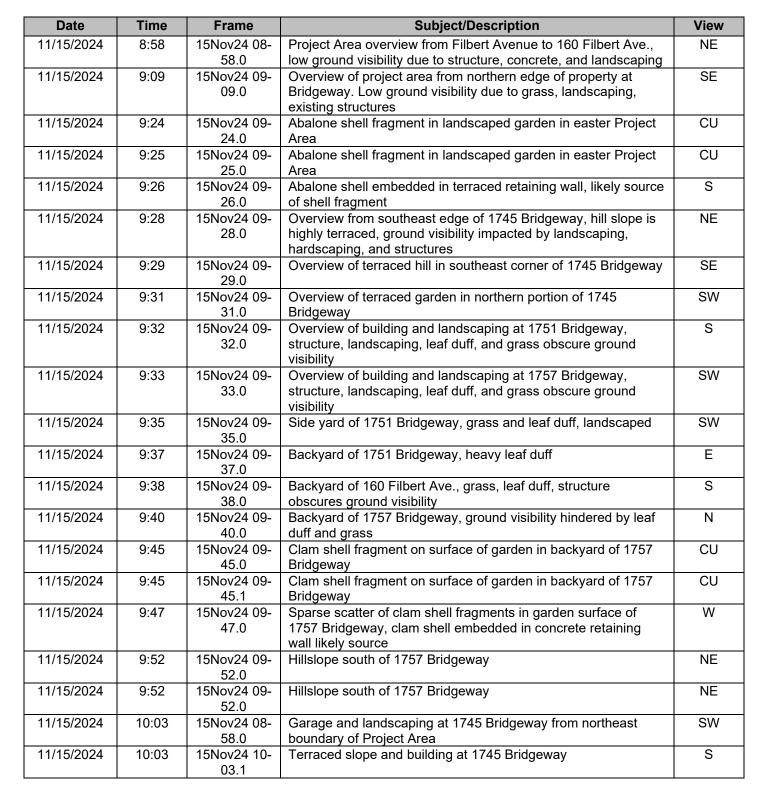
15Nov24 09-52.0, view northeast, 11/15/2024, Overview of hillslope south of 1757 Bridgeway.



15Nov24 10-03.0, view northeast, 11/15/2024, Garage and landscaping at 1745 Bridgeway from northeast boundary of Project Area.

PHOTO LOG

Project Name: ALTA2024_272 Ascent City of Sausalito Bridgeway Commons Condominiums Project
Photographer: Jamie Frattarelli
Camera Type: iPhone 11
Lens Size: N/A
Images on File: Alta Archaeological Consulting



Date	Time	Frame	Subject/Description	View
11/15/2024	10:04	15Nov2410- 04.0	Terraced slope and building at 1745 Bridgeway	S
				1

Appendix E

Geotechnical Engineering Study

GEOTECHNICAL ENGINEERING STUDY BRIDEGEWAY COMMONS 1751-1757 BRIDGEWAY BOULEVARD & 160 FILBERT AVENUE SAUSALITO, CALIFORNIA

November 6, 2018

Prepared for

Ms. Feng Xue SY Jardines Lookout LLC 1755 Bridgeway Sausalito, CA 94965

Prepared by

Earth Systems Pacific 48511 Warm Springs Blvd., Suite 210 Fremont, CA 94539

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48511 Warm Springs Boulevard, Suite 210 | Fremont, CA 94539 | Ph: 510.353.3833 | www.earthsystems.com

November 6, 2018

File No.: 302110-001

Ms. Feng Xue SY Jardines Lookout LLC 1755 Bridgeway Sausalito, CA 94965

PROJECT: BRIDGEWAY COMMONS 1751-1757 BRIDGEWAY & 160 FILBERT AVENUE SAUSALITO, CALIFORNIA

SUBJECT: Geotechnical Engineering Study

REF.: Proposal for Geotechnical Engineering Study, Bridgeway Commons, 1751-1757 Bridgeway Boulevard & 160 Filbert Avenue, Sausalito, California, by Earth Systems Pacific, April 16, 2018.

Dear Ms. Xue:

In accordance with your authorization of the above referenced proposal, this geotechnical engineering study has been prepared by Earth Systems Pacific (Earth Systems) for use in the development of plans and specifications for the proposed Bridgeway Commons development in Sausalito, California. The conclusions and recommendations presented herein are based on our understanding of the currently proposed development, a review of the subsurface conditions revealed by three soil borings advanced as a part of this investigation, and our engineering analysis.

We appreciate the opportunity to assist you on this project. Should you have any questions regarding the contents of this report, please contact the undersigned.

Sincerely, Earth Systems Pacific Kira Ortiz PE 88089 Project Engineer

1811-020.SER/kt Doc. No.:

Ajay Singh, GE 3057 Principal Engineer





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APPENDIX A

Boring Logs

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Boring Log, 2014 Investigation Boring Logs, 2006 Investigation



1.0 INTRODUCTION

This report presents the results of the geotechnical engineering study performed by Earth Systems Pacific (Earth System), for the proposed Bridgeway Commons development to be constructed off Bridgeway Boulevard and Filbert Avenue in Sausalito, California. The attached Site Location Map Figure 1, shows the general location of the site and the attached Site Plan, Figure 2 and Site Development Plan, Figure 3, show the location of the borings advanced at the site as part of this investigation.

Site Setting

The subject property is flag-shaped, consisting of two parcels located at 1751-1757 Bridgeway Boulevard & 160 Filbert Avenue in Sausalito, California (APN 064-151-02 & 064-121-03). The middle portion of the site has a latitude of 37.8614°N and a longitude of 122.4921°W (See Figure 1).

Site Description

The site is located on the south side of Bridgeway, approximately 475 feet south of the intersection of Bridgeway and Filbert Avenue in Sausalito, California. At the time of our investigation, the project site was occupied by four separate residences across the site and an associated detached concrete garage building located along the northern edge of the site, adjacent to Bridgeway. The site slopes to the north, towards Bridgeway and was covered with heavy vegetation at the time of our subsurface exploration as shown on the attached Site Plan (Figure 2). A review of the site topographic map prepared by ILS Associates, dated 12-5-2013 indicates that site elevations range from approximately 72 feet in the southern corner near Filbert Street to 30 feet in the northern portion near gravel parking adjacent to Bridgeway Boulevard. The average ground slope across the site is approximately 5H:1V.

Project Description

Based on a review of the site plan prepared by BDE Architecture, it is our understanding that the proposed construction consists of a two building, multi-unit residential development. The northern building, along Bridgeway Boulevard will be three stories with residential units occupying the upper two floors and a parking garage with partial basement on the first.

The southern building, near Filbert Street, will be five stories with residential units occupying the upper three floors, a mechanical and elevator service room, utilities room, and storage space will occupy the second floor, and additional garage spaces, trash termination room and a lobby will occupy the first floor. Related site improvements will include associated utilities, hardscape/landscape, pavement, and other site elements.



The northern building will have a finished grade of 33 feet in the parking garage area, the second floor will have an elevation of 45 feet and the upper level building will have a finished floor elevation of 55.33 feet. The two buildings will be connected at the third-floor level. The fourth, fifth, and sixth floor elevations of the southern building will be 63.67 feet, 74 feet, and 84.33 feet.

This will require cuts on the order of 15 feet in the southeastern corner and perhaps minor fills in the western portion of the parking garage. The parking area of the southern building will have a finished floor elevation of 45 feet which will include approximately 15 feet high retaining walls on the southside of the building. The project will include additional retaining walls at all levels including multiple retaining walls around the stairs on the eastern and western sides of the buildings.

Scope of Services

The scope of work for the geotechnical engineering study included general site reconnaissance, subsurface exploration, engineering evaluation of the data collected by others and Earth Systems, and preparation of this report. The analysis and engineering recommendations presented in the following sections of this report are based on our understanding of the proposed development at the subject site and our experience with projects of a similar nature.

The report and recommendations are intended to comply with the considerations of Section 1803 of the California Building Code (CBC), 2016 Edition, and common geotechnical engineering practice in this area at this time under similar conditions.

Preliminary geotechnical recommendations for site preparation and grading, foundations, slabson-grade, exterior flatwork, utility trench backfill, site drainage management, and geotechnical observation and testing are presented to guide the development of project plans and specifications. It is our intent that this update report be used by the client to form the geotechnical basis of the design of the project as described herein, and in the preparation of plans and specifications.

Detailed evaluation of the site geology and potential geologic hazards, and analyses of the soil for infiltration rates, mold or other microbial content, asbestos, radioisotopes, hydrocarbons, or other chemical properties are beyond the scope of this report. This report also does not address issues in the domain of contractors such as, but not limited to, site safety, loss of volume due to stripping of the site, shrinkage of soils during compaction, excavatability, shoring, temporary



slope angles, and construction means and methods. Ancillary features such as temporary access roads, fences, light poles, and non-structural fills are not within our scope and are also not addressed.

To verify that pertinent issues have been addressed and to aid in conformance with the intent of this report, it is requested that final grading and foundation plans be submitted to this office for review. In the event that there are any changes in the nature, design, or locations of improvements, or if any assumptions used in the preparation of this update report prove to be incorrect, the conclusions and recommendations contained herein should not be considered valid unless the changes are reviewed and the conclusions of this update report are verified or modified in writing by the geotechnical engineer. The criteria presented in this update report are prove to be geotechnical engineer. The criteria presented in writing by the geotechnical engineer.

2.0 GEOLOGIC SETTING

Regional Geology

A review of the geologic literature indicates that the site is underlain by both Quaternary artificial fill over marine and marsh deposits (Qmf) on the northern portion of the site, and Melánge throughout the rest of the site (Graymer et.al. 2000).

Seismic Setting

The entire San Francisco Bay Area, is considered to be an active seismic region due to the presence of several active faults. Three northwest-trending major earthquake faults that are responsible for the majority of the movement on San Andreas fault system extend through the Bay Area. They include the San Andreas fault, the Hayward fault and the Calaveras fault, which are respectively located approximately 7.2 miles to the southwest, 11.7 miles to the northeast and 24.6 miles to the east. The San Gregorio fault is located approximately 8.7 miles southwest of the site. Using information from recent earthquakes, improved mapping of active faults, and ann new model for estimating earthquake probabilities, the 2014 Working Group on California Earthquake Probabilities updated the 30 years earthquake forecast for California. They concluded that there is a 72 percent probability (or likelihood) of at least one earthquake of magnitude 6.7 greater striking somewhere in the San Francisco Bay region before 2043. A summary of the significant faults in the near vicinity of the site and their respective potential moment magnitudes are listed below.



Major Active Faults

Fault	Distance from Site (miles)	Probability of M _w ≥6.7 within 30 Years ¹
San Andreas	7.2 (SW)	33%
San Gregorio	8.7 (SW)	5%
Hayward	11.7 (NE)	32%
Calaveras	24.6 (E)	26%

¹ Working Group on California Earthquake Probabilities, 2014

3.0 FIELD INVESTIGATION

Subsurface Exploration

Our subsurface exploration program consisted of drilling three exploratory borings at the site on June 6 and 7, 2018 at the approximate locations shown on the Site Plan, Figure 2. The borings were drilled using a portable Minute-Man drilling rig equipped with 3½-inch diameter continuous flight augers, and sampled to depths ranging from 20 to 22½ feet below the ground surface (bgs). The drilling process consisted of augering to the desired depth and upon reaching that depth, the auger was retrieved and a standard sampler connected to steel rods was lowered into the uncased hole. The samplers were driven with a 140-pound, safety hammer falling about 30 inches per drop. The samplers were driven up to 18 inches and the hammer blows required to drive the samplers were recorded every six inches and are presented on the boring logs.

Our project engineer supervised the drilling program, logged the soil conditions encountered in the borehole and collected representative samples for laboratory testing. Subsurface conditions revealed by our borings were described by our Project Engineer. The boring logs show soil description including: color, major and minor components, USCS classification, changes in soil conditions with depth, moisture content, consistency/density, plasticity, sampler type, and sampling depths and laboratory test results. Copies of the boring logs advanced for this investigation are presented in Appendix A.

Copies of the boring logs included in the geotechnical engineering investigation report by Trans Pacific Geotechnical Consultants, 2006 and supplemental geotechnical engineering investigation performed by Axiom Corporation, 2014 are present in Appendix C.



Subsurface Profile

A review of the borings previously advanced at the site by Trans Pacific Geotechnical Consultants, Inc. (2006) and Axiom Corporation (2014) reveal the presence of soft to stiff fat clay (CH) that extended to depths ranging from approximately 2 to 5 feet below the ground surface (bgs). Beneath this material the borings encountered soft to very stiff lean clay (CL) that contained variable percentages of sand. Underlying the upper clayey soils, borings B-1, B-5, and B-6 encountered bedrock consisting of sandstone and shale at depths of 20 feet, 20-½ feet, and 7 feet bgs, respectively.

The borings advanced for this investigation indicate the native surface soils consist 17 to 19 feet of stiff to very hard lean clay to sandy lean clay underlain by completely to moderately weathered sandstone to the maximum depths explored. The only exception was in boring B1 that was advanced south of the detached concrete garage which encountered approximately 3½ feet of very stiff lean clay fill material. The borings advanced for this investigation indicate lower plasticity, firmer soil than previously reported by other firms (Pacific Geotechnical Consultants and Axiom Corporation).

Groundwater was encountered in boring B2 at approximately 12½ feet below the ground surface. During the 2006 investigation by Trans Pacific Geotechnical Consultants, Inc., groundwater was encountered in all five borings advanced at the site. The depth to groundwater was measured at 14½ feet in boring B-1, 3 feet in Borings B-2 and B-3, 5 feet in Boring B-4, and 15½ feet in boring B-5. It should be noted, however, that fluctuations in the level of subsurface water can occur due to variations in rainfall, and temperature, and groundwater levels should not be considered constant.

4.0 DATA ANALYSIS

Subsurface Soil Classification

Based on the data acquired during our subsurface investigation (See Appendix A), the site is assigned to Site Class C ("very dense soil and soft rock") as defined by Table 20.3-1 of the ASCE 7-10.

Seismic Design Parameters

The following seismic design parameters represent the general procedure as outlined in Section 1613 of the CBC and in ASCE 7. The values determined below are based on the 2009 National Earthquake Hazard Reduction Program (NEHRP) maps and were obtained using the United States Geological Survey's Design Maps Web Application.



Summary of Seismic Parameters - CBC 2016 (Site Coordinates 37.8614°N, 122.4921°W)

Parameter	Design Value		
Site Class	C		
Mapped Short Term Spectral Response Parameter, (S _s)	1.5g		
Mapped 1-second Spectral Response Parameter, (S ₁)	0.64g		
Site Coefficient, (F _a)	1.0		
Site Coefficient, (F _v)	1.5		
Site Modified Short Term Response Parameter, (S _{Ms})	1.50g		
Site Modified 1-second Response Parameter, (S _{M1})	0.83g		
Design Short Term Response Parameter, (S _{Ds})	1.00g		
Design 1-second Response Parameter, (S _{D1})	0.55g		

Liquefaction

The term liquefaction refers to the liquefied condition and subsequent softening that can occur in soils when they are subjected to cyclic strains, such as those generated during a seismic event. Studies of areas where liquefaction has occurred have led to the conclusion that saturated soil conditions, low soil density, grain sizes within a certain range, and a sufficiently strong earthquake, in combination, create a potential for liquefaction. The site is not in an area yet mapped by the California Geology Survey indicating seismic hazard zones; however, according to the Association of Bay Area Governments (ABAG) the northern portion of the site is mapped within an area as having a *very-high susceptibility* to liquefaction. Our borings, as well as the borings previously performed as part of the 2006 and 2014 investigations encountered clayey soils and bedrock at relatively shallow depths. Thus, measures are not considered necessary to mitigate potential soil liquefaction.

Static Settlement

The possibility of settlement is minimized by the light structural loads expected for the proposed improvements. Anticipated static settlements of the onsite native soils are on the order of 1 inch with a differential settlement of ½ inches. However, it is anticipated that fill will be required in portions of the site to create level building pads. Long-term settlement of properly compacted sand or gravel fill should be assumed to be about ½ percent of the depth of the fill. Long-term settlement of properly compacted clayey fill should be assumed to be about 1 percent of the depth of the fill. Therefore, the site grading should be designed to minimize the differential fill thickness across the building pads to reduce differential settlements.



5.0 CONCLUSIONS

General

The subject site is suitable for the proposed residential development from a geotechnical engineering standpoint, provided the recommendations included in this report are followed. The primary geotechnical concern at the site is the post-construction differential settlement because of large variation in the fill thickness across the pad. Recommendations for reducing large differential settlement are included in the following sections of the report.

Site Preparation and Grading

The site is currently occupied by four single-family residences, a concrete garage building, retaining walls, and flat work. Demolition of the existing structures and associated footings is anticipated to result in some ground depressions. These depressions should be backfilled in accordance with the recommendations included in the following sections of this report and under the observations of our field technician. Additional grading work is anticipated to include fill placement behind the retaining walls and the utility trenches. Grading operations are discussed in detail in the *Recommendations* section of this report.

Soil Expansion Potential

A plasticity index test performed on a sample of the upper soils from the site resulted in a liquid limit (LL) of 45 and a plasticity index (PI) of 26. These values indicate that the sample tested has a moderately high expansion potential. Soils with high shrinkage-swelling potential undergo pronounced volume changes with moisture content fluctuations and when constrained they could exert significant uplift forces on the overlying structures. Thus it will be important to place fill at a moisture content that is slightly above optimum. The soil subgrade should be kept moist until it is covered with concrete.

Foundations

Due to the firm nature of the onsite soils, the proposed loads of the northern building and the associated retaining walls may be adequately supported on conventional spread/strip footings. The southern residential building should be supported on a pier and a grade beam type foundation system. The two buildings should be structurally separated from each other. Details of the foundation recommendations are included in the following sections of the report.

Groundwater

Groundwater was encountered in boring B2 during the subsurface exploration at approximately 12½ feet below the surface. During the 2006 investigation by Trans Pacific Geotechnical Consultants, Inc., groundwater was encountered in all borings advanced at the site at depths of



14½, 3, 3, 5, and 15½ feet below the ground surface in borings B1, B2, B3, B4, and B5, respectively. These borings were drilled during the wet period. There is a possibly that groundwater may be encountered during construction and the contractor should be prepared to deal with wet soil conditions, and should be equipped to keeping excavations dry, if needed, prior to placing concrete.

Seismicity

The San Francisco Bay area is recognized by geologists and seismologists as one of the most seismically active regions in the United States. The significant earthquakes in this area are generally associated with crustal movement along well-defined, active fault zones which regionally trend in a northwesterly direction. Although research on earthquake prediction has greatly increased in recent years, seismologists cannot predict when and where an earthquake will occur. Nevertheless, based on current technology, it is reasonable to assume that the proposed development will be subjected to at least one moderate to severe earthquake during its lifetime. During such an earthquake, the danger from fault offset on the site is low, but strong shaking of the site is likely to occur and, therefore, the project should be designed in accordance with the seismic design provisions of the latest California Building Code. The California Building Code seismic design parameters are not intended to prevent structural damage during an earthquake, but to reduce damage and minimize loss of life.

6.0 **RECOMMENDATIONS**

Site Preparation and Grading

General Site Preparation

- 1. Site clearing, placement of fill, and grading operations at the site should be conducted in accordance with the recommendations provided in this report. Compaction recommendations for site grading can be found later in this section.
- 2. The site should be prepared for grading by removing structures scheduled for demolition, existing flatwork, existing trees and their root systems, vegetation, debris, and other potentially deleterious materials from areas to receive improvements. Existing utility lines that will not be serving the proposed project should be either removed or abandoned. The appropriate method of utility abandonment will depend upon the type and depth of the utility. Recommendations for abandonment can be made as necessary.
- 3. Due to potential ground disturbance from potential demolition activities, a program of over-excavation and backfilling may be required. Loose, disturbed soil within the existing building areas should be cleaned out (excavated) to competent, undisturbed soil. Over-



excavation of the upper 1 to 2 feet of existing ground may be needed. The lateral extent of the over-excavation should extend at least 5 feet beyond the perimeter of the proposed improvements, as determined in the field by the geotechnical engineering during grading operations. The exposed ground should be reviewed by the geotechnical engineer to determine the need for additional excavation work.

- 4. Ruts or depressions resulting from the removal of the previous building foundations, slabs, utilities, fill soils, tree root systems, and abandoned and/or buried structures, buried debris, and remnants of the former use of the site that are discovered during site grading should be removed and properly cleaned out down to undisturbed native soil. The bottoms of the resulting depressions should be scarified and cross-scarified at least 8 inches in depth, moisture conditioned and recompacted. The depressions should then be backfilled with approved, compacted, moisture conditioned structural fill, as recommended in other sections of this report.
- 5. Site clearing and backfilling operations should be conducted under the field observation of the geotechnical engineer.
- 6. The geotechnical engineer should be notified at least 48 hours prior to commencement of grading operations.

Compaction Recommendations

- 1. In general, the underlying native soil should be scarified at least 8 inches, moisture conditioned and recompacted to the recommended relative compaction presented below, unless noted otherwise. This scarification operation should be performed at locations designated for proposed structural fill, concrete slabs-on-grade, exterior flatwork, foundations, and pavement areas.
- 2. Recompacted native soils and fill soils should be compacted to a minimum relative compaction of 90 percent of maximum dry density at a moisture content at least 3 percentage points above optimum.
- 3. In areas to be paved, the upper 8 inches of subgrade soil should be compacted to a minimum 92 percent of maximum dry density at a moisture content at least 3 percentage points over optimum. The aggregate base courses should be compacted to a minimum 95 percent of maximum dry density at a moisture content that is slightly over optimum. The subgrade and base should be firm and unyielding when proof-rolled with heavy,



rubber-tired equipment prior to paving. The pavement subgrade soils should be periodically moistened as necessary prior to placement of the aggregate base to maintain the soil moisture content near optimum.

- 4. When backfilling the partial basement areas of the existing buildings, there is a chance that groundwater could be encountered. If groundwater is encountered during the excavation the geotechnical engineer should be notified to make recommendations for dewatering the excavation.
- 5. In order to minimize post-construction differential settlement below the floor slab, we recommend that the differential fill thickness across the pad should not exceed 3 feet. This may require over-excavation of native soil and placement as engineered fill.

Fill Recommendations

- 1. Structural fill is defined herein as a native or import fill material which, when properly compacted, will support foundations, building slabs, pavements, and other fills. The on-site native fill soils that are free of debris, organics and other deleterious material, may be used as structural fill.
- 2. Should import fill be required, the soil should meet the following criteria:
 - a. Be coarse grained and have a plasticity index of less than 15 and/or an expansion index less than 20;
 - b. Be free of organics, debris or other deleterious material;
 - c. Have a maximum rock size of 3 inches; and
 - d. Contain sufficient clay binder to allow for stable foundation and utility trench excavations.
- 3. Proposed imported soils should be submitted at least three days before being transported to the site for evaluation by the geotechnical engineer. During importation to the site the material should be further reviewed on an intermittent basis.

Foundations for the Northern Building

1. The northern residential development may be supported by conventional strip/spread footings bearing on the stiff native or engineered fill material. The footings should have minimum depths of 30 inches below the lowest adjacent grade. The interior footings should be a minimum of 30 inches below the bottom of the slab. The footing excavations should be observed by the geotechnical engineer prior to placement of formwork or



reinforcement. The footings should extend into firm ground established by our field representative; therefore, the depth of the footings may be extended based on the observed field conditions.

- 2. The footings should be designed using a maximum allowable bearing capacity of 2,500 psf for dead plus live load. This value may be increased by one-third when transient loads such as wind or seismicity are included.
- 3. Resistance to lateral loads should be calculated based on a passive equivalent fluid pressure of 300 pcf and a friction factor of 0.30. Passive and frictional resistance can be combined in the calculations without reductions. These values are based on the assumption that backfill adjacent to foundations is properly compacted. The upper 12 inches of embedment should be disregarded in calculating passive resistance where concrete or asphalt pavement does not abut the foundation.

Foundations for the Northern Building

- 1. Due to the presence of sloping soil conditions, the proposed loads from the southern building may be supported on a drilled, cast-in-place, reinforced concrete pier and grade beam type foundation system. The piers should be a minimum of 16 inches in diameter and designed to extend a minimum of 8 feet into underlying sandstone bedrock.
- 2. To resist lateral loads, a passive equivalent fluid pressure of 300 pcf should be applied. Passive resistance may begin at a point on the foundation pier where there is at least 5 feet of horizontal cover to the slope face. This passive design pressure may be increased by one third when including short term forces from wind and seismic forces. The passive resistance may be applied over a one-and-a-half pier diameter tributary area.
- 3. Piers should be structurally tied to the grade beams. Isolated interior piers are not recommended. The actual design of the piers, their reinforcement, depth, size and spacing will depend upon actual building loads and should be determined by the architect/ engineer responsible for the foundation design. The perimeter grade beams should penetrate at least 18 inches into the prepared building pad at the residence.
- 4. The piers should not deviate from a plumb line by more than 2 percent of the pier length, as measured from the top to the point of interest. Adequate pier oversize may be assumed to provide the recommended tolerance. The bottoms of the pier excavations should be firm and should not contain excessive loose debris and slough material. Loose drilling spoils should be removed or compacted prior to placement of reinforcing steel.



- 5. Piers constructed on sloping ground, or within 15 feet of a downward slope, should be designed to resist creep force. The piers should be designed for a creep force of 50 pcf to a depth of 36 inches acting over a tributary area of 3 pier diameters.
- 6. Foundation piers should be drilled under the observation of a representative from Earth Systems who will verify the proper penetration depth into bedrock, and provide additional recommendations if unanticipated conditions are encountered during pier drilling operations.

Retaining Walls

- 1. Retaining walls that will be constructed as part of the northern building may be supported on conventional strip/spread footings utilizing the foundation recommendations presented in the Foundations section above. Retaining walls constructed as a part of the southern building may be supported on a drilled-cast-in-place reinforced concrete pier and a grade beam type foundation system utilizing the foundation recommendations presented in the Foundations section above.
- 2. Design criteria for retaining walls to laterally retain the on-site soils are presented below:

Active equivalent fluid pressure (level backfill)......50 pcf At-rest equivalent fluid pressure (level backfill)......70 pcf

The above earth pressures are for level backfill conditions. For sloping backfill, the above pressures should be increased by 3 pcf per every 5 degree increase in the backfill slope angle. No surcharge loads are taken into consideration in the above provided equivalent fluid pressures.

- 3. Surcharge loads applied at the surface on the backfill should be considered to be a uniformly distributed horizontal load. This load would equal to approximately 1/3 and 1/2 of the uniform surcharge load for "active" and "at-rest" conditions, respectively.
- 4. Retaining walls that are constructed as part of the residential buildings or are connected to the building foundations should be designed for at-rest pressures. Walls that are not restrained from rotation may be designed for active pressures.
- 5. If seismic forces are to be considered in the retaining wall design, the seismic increment of earth pressure should be 10H pounds per linear foot, where H is the height of the retained soil. The seismic pressure should be applied uniformly on the back of the wall along the height of the retained soil.



- 6. A concrete lined drainage ditch should be constructed at the top of exterior retaining walls to prevent surface irrigation or rain water originating upslope of the walls from flowing over the walls. The drainage ditch should lead to one or both ends of the retaining walls and discharge into an approved collection system.
- 7. In order to provide proper drainage, an import drain rock blanket should be placed behind the retaining walls. The drain rock blanket should be at least 12 inches wide, and extend along the entire length of the retaining wall. The drain rock blanket should extend from the top of the footing upward to within 2 feet of the top of the wall backfill. The upper 2 feet of backfill over the drainage medium should consist of native soil, compacted to at least 90 of maximum dry density, to reduce the flow of surface drainage into the wall drain system. The drain rock blanket should be separated from the backfill soil using a permeable synthetic fabric conforming to Caltrans Standard Specifications, Section 88-1.02B, Class A. Permeable material should conform to Section 68-2.02F(3), Class 2, of the Caltrans Standard Specifications. Manufactured synthetic drains such as Miradrain or Enkadrain may be used in lieu of drain rock and should be installed in accordance with the recommendations of the manufacturer. A 4-inch diameter, perforated/horizontal pipe should be placed at the bottom of the drain blanket/synthetic drains with perforations down. The pipe should discharge to an approved discharge point beyond and down slope of the wall.
- 8. The architect/engineer should bear in mind that retaining walls by their nature are flexible structures, and the flexibility can often cause cracking in surface coatings. Where walls are to be plastered or will otherwise have a finish surface applied, this flexibility should be considered in determining the suitability of the surfacing material, spacing of horizontal and vertical joints, connections to structures, etc.
- 9. Retaining walls facing habitable areas, or areas where intrusion of moisture would be undesirable, should be waterproofed in accordance with the specifications of the architect/engineer.
- 10. Retaining walls should be backfilled with either native soil or clean imported granular material. The backfill material should be placed in thin, moisture conditioned lifts, compacted in accordance with the recommendations provided in the Site Preparation and Grading section of this report.



11. Long-term settlement of properly compacted sand or gravel retaining wall backfill should be assumed to be about ½ percent of the depth of the backfill. Long-term settlement of properly compacted clayey retaining wall backfill should be assumed to be about 1 percent of the depth of the backfill. Improvements constructed near the tops of retaining walls should be designed to accommodate the estimated settlement.

Concrete Slab-on-Grade Construction

- 1. Interior slab-on-grade concrete should have a minimum thickness of 6 full inches and should be reinforced as directed by the architect/engineer.
- 2. Due to the moderate expansion potential of the soil, the slabs-on-grade can be cast directly upon the compacted subgrade soil. However, a 2 to 4-inch cushion layer of compacted low-expansive material such as clean sand or aggregate base would enhance the slab performance. If adverse conditions are encountered during grading, a layer of low-expansive material may be recommended by the geotechnical engineer.
- 3. For conventional interior slab-on-grade floor construction in areas which will receive carpet of other floor coverings or where moisture sensitive materials will be stored directly on the slab, a capillary break system that consists a vapor retarder and a 4-inch-thick, clean crushed rock layer should be placed above the pad subgrade to serve as a capillary break.
- 4. The vapor retarder should comply with ASTM Standard Specification E 1745-17 and the latest recommendations of ACI Committee 302. The vapor retarder should be installed in accordance with ASTM Standard Practice E 1643-17. Care should be taken to properly lap and seal the vapor retarder, particularly around utilities, and to protect it from damage during construction.
- 5. A sand layer over the vapor retarder is optional. If sand, gravel or other permeable material is to be placed over the vapor retarder, the material over the vapor retarder should be only lightly moistened and not saturated prior to casting the slab. Excess water above the vapor retarder would increase the potential for moisture damage to floor coverings. Recent studies, including those by ACI Committee 302, have concluded that excess water above the vapor retarder would increase the potential for moisture damage to floor coverings and could increase the potential for mold growth or other microbial contamination. These studies also concluded that it is preferable to eliminate the sand



layer and place the slab in direct contact with the vapor retarder, particularly during wet weather construction. However, placing the concrete directly on the vapor retarder would require special attention to using the proper vapor retarder, concrete mix design, and finishing and curing techniques.

6. When concrete slabs are in direct contact with vapor retarders, the concrete water to cement (w/c) ratio must be correctly specified to control bleed water and plastic shrinkage and cracking. The concrete w/c ratio for this type of application is typically in the range of 0.45 to 0.50. The concrete should be properly cured to reduce slab curling and plastic shrinkage cracking. Concrete materials, placement, and curing methods should be specified by the architect/engineer.

Exterior Flatwork

- 1. Exterior flatwork should have a minimum thickness of 4 full inches and should be reinforced as directed by the architect/engineer.
- 2. Due to the moderate expansion potential of the soil, exterior flatwork that will not experience vehicular traffic, can be cast directly upon the compacted subgrade soil. However, a 2 to 4-inch cushion layer of compacted low-expansive material such as clean sand or aggregate base would enhance the slab performance. Exterior flatwork that will be subject to vehicular traffic should be underlain by a minimum of 6-inch layer of compacted, non-expansive material such as clean sand or aggregate base. If adverse conditions are encountered during grading, a thicker layer of low-expansive material may be recommended by the geotechnical engineer.
- 3. Assuming that movement (i.e., 1/4-inch or more) of exterior flatwork beyond the structure is acceptable, the flatwork should be designed to be independent of the building foundations. The flatwork should not be doweled to foundations, and a separator should be placed between the two.
- 4. To reduce shrinkage cracks in concrete, the concrete aggregates should be of appropriate size and proportion, the water/cement ratio should be low, the concrete should be properly placed and finished, contraction joints should be installed, and the concrete should be properly cured. Concrete materials, placement and curing specifications should be at the direction of the designer; ACI 302.1R-04 and ACI 302.2R-04 are suggested as resources for the designer in preparing such specifications.



Utility Trench Backfills

- 1. A select, noncorrosive, granular, easily compacted material should be used as bedding and shading immediately around utility pipes. The site soils may be used for trench backfill above the select material.
- 2. Trench backfill in the upper 8 inches of subgrade beneath pavement areas should be compacted to a minimum of 92 percent of maximum dry density at a moisture content at least 3 percentage points above optimum moisture content and the aggregate base courses should be compacted to a minimum 95 percent of maximum dry density at a moisture content slightly over optimum. Trench backfill in other areas should be compacted to a minimum of 90 percent of maximum dry density at a moisture content at least 3 percentage points above optimum. Trench backfill in other areas should be compacted to a minimum of 90 percent of maximum dry density at a moisture content at least 3 percentage points above optimum moisture content. Jetting of utility trench backfill should not be allowed.
- 3. Where utility trenches extend under perimeter foundations, the trenches should be backfilled entirely with approved fill soil compacted to a minimum of 90 percent of maximum dry density at a moisture content at least 3 percentage points above optimum moisture content. The zone of approved fill soil should extend a minimum distance of 2 feet on both sides of the foundation. If utility pipes pass through sleeves cast into the perimeter foundations, the annulus between the pipes and sleeves should be completely sealed.
- 4. Parallel trenches excavated in the area under foundations defined by a plane radiating at a 45-degree angle downward from the bottom edge of the footing should be avoided, if possible. Trench backfill within this zone, if necessary, should consist of Controlled Density Fill (Flowable Fill).

Site Drainage and Finish Improvements

- 1. Unpaved ground surfaces should be finish graded to direct surface runoff away from site improvements at a minimum 5 percent grade for a minimum distance of 10 feet. If this is not practical due to the terrain or other site features, swales with improved surfaces should be provided to divert drainage away from improvements. The landscaping should be planned and installed to maintain proper surface drainage conditions.
- 2. Runoff from driveways, roof gutters, downspouts, planter drains and other improvements should discharge in a non-erosive manner away from foundations, pavements, and other improvements. The downspouts may discharge onto splash blocks that direct the flow away from the foundation.



- 3. Stabilization of surface soils, particularly those disturbed during construction, by vegetation or other means during and following construction is essential to protect the site from erosion damage. Care should be taken to establish and maintain vegetation.
- 4. Raised planter beds adjacent to foundations should be provided with sealed sides and bottoms so that irrigation water is not allowed to penetrate the subsurface beneath foundations. Outlets should be provided in the planters to direct accumulated irrigation water away from foundations.
- 5. Open areas adjacent to exterior flatwork should be irrigated or otherwise maintained so that constant moisture conditions are created throughout the year. Irrigation systems should be controlled to the minimum levels that will sustain the vegetation without saturating the soil.
- 6. Bio-retention swales constructed within 10 feet or less from the building foundation should be lined with a 20-mil pond liner.

Geotechnical Observation and Testing

- 1. It must be recognized that the recommendations contained in this report are based on a limited number of borings and rely on continuity of the subsurface conditions encountered.
- 2. It is assumed that the geotechnical engineer will be retained to provide consultation during the design phase, to interpret this report during construction, and to provide construction monitoring in the form of testing and observation.
- 3. Unless otherwise stated, the terms "compacted" and "recompacted" refer to soils placed in level lifts not exceeding 8 inches in loose thickness and compacted to a minimum of 90 percent of maximum dry density. The standard tests used to define maximum dry density and field density should be ASTM D 1557-12 and ASTM D 6938-17, respectively, or other methods acceptable to the geotechnical engineer and jurisdiction.
- 4. "Moisture conditioning" refers to adjusting the soil moisture to at least 2 percentage points above optimum moisture content prior to application of compactive effort. If the soils are overly moist so that they become unstable, or if the recommended compaction cannot be readily achieved, drying the soil to optimum moisture content or just above may be necessary. Placement of gravel layers or geotextiles may also be necessary to



help stabilize unstable soils. The geotechnical engineer should be contacted for recommendations for mitigating unstable soils.

- 5. At a minimum, the following should be provided by the geotechnical engineer:
 - Review of final grading and foundation plans,
 - Professional observation during site preparation, grading, and foundation excavation,
 - Oversight of soil compaction testing during grading,
 - Oversight of soil special inspection during grading.
- 6. Special inspection of grading should be provided as per Section 1705.6 and 1705.8 and Table 1705.6 and 1705.8 of the CBC; the soils special inspector should be under the direction of the geotechnical engineer. In our opinion, the following operations should be subject to *continuous* soils special inspection:
 - Scarification and recompaction,
 - Fill placement and compaction,
 - Foundation pier drilling,
 - Over-excavation to the recommended depth.
- 7. In our opinion, the following operations may be subject to *periodic* soils special inspection; subject to approval by the Building Official:
 - Site preparation,
 - Compaction of utility trench backfill,
 - Removal of existing development features,
 - Compaction of subgrade and aggregate base,
 - Observation of foundation excavations,
 - Building pad moisture conditioning.
- 8. It will be necessary to develop a program of quality control prior to beginning grading. It is the responsibility of the owner, contractor, or project manager to determine any additional inspection items required by the architect/engineer or the governing jurisdiction.
- 9. The locations and frequencies of compaction tests should be as per the recommendations of the geotechnical engineer at the time of construction. The recommended test locations and frequencies may be subject to modification by the geotechnical engineer



based upon soil and moisture conditions encountered, the size and type of equipment used by the contractor, the general trend of the compaction test results, and other factors.

10. A preconstruction conference among a representative of the owner, the geotechnical engineer, soils special inspector, the architect/engineer, and contractors is recommended to discuss planned construction procedures and quality control requirements. Earth Systems should be notified at least 48 hours prior to beginning grading operations.

7.0 CLOSURE

This report is valid for conditions as they exist at this time for the type of project described herein. Our intent was to perform the investigation in a manner consistent with the level of care and skill ordinarily exercised by members of the profession currently practicing in the locality of this project at this time under similar conditions. No representation, warranty, or guarantee is either expressed or implied. This report is intended for the exclusive use by the client as discussed in the Scope of Services section. Application beyond the stated intent is strictly at the user's risk.

If changes with respect to the project type or location become necessary, if items not addressed in this report are incorporated into plans, or if any of the assumptions stated in this report are not correct, Earth Systems should be notified for modifications to this report. Any items not specifically addressed in this report should comply with the California Building Code and the requirements of the governing jurisdiction.

The preliminary recommendations of this report are based upon the geotechnical conditions encountered during the investigation, and may be augmented by additional requirements of the architect/engineer, or by additional recommendations provided by this firm based on conditions exposed at the time of construction.

If Earth Systems is not retained to provide construction observation and testing services, it will not be responsible for the interpretation of the information by others or any consequences arising there from.

This document, the data, conclusions, and recommendations contained herein are the property of Earth Systems. This report should be used in its entirety, with no individual sections reproduced or used out of context. Copies may be made only by Earth Systems, the client, and his authorized agents for use exclusively on the subject project. Any other use is subject to federal copyright laws and the written approval of Earth Systems.

FIGURES

Figure 1 - Site Location Map Figure 2 - Site Plan Figure 3 - Site Development Plan

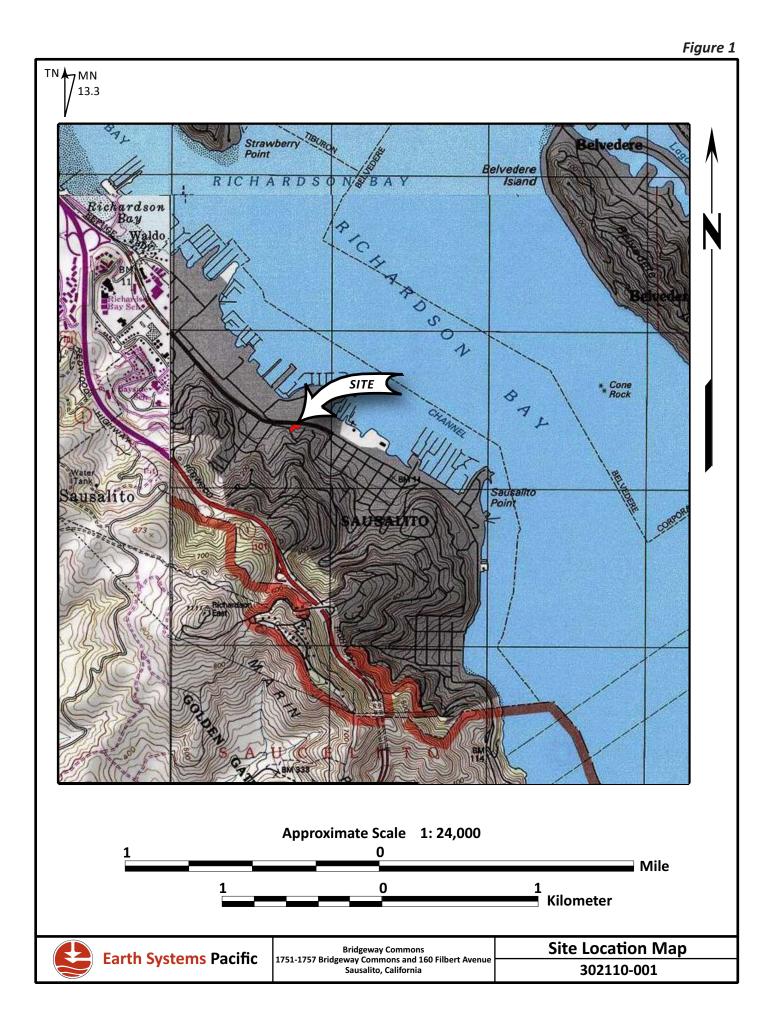
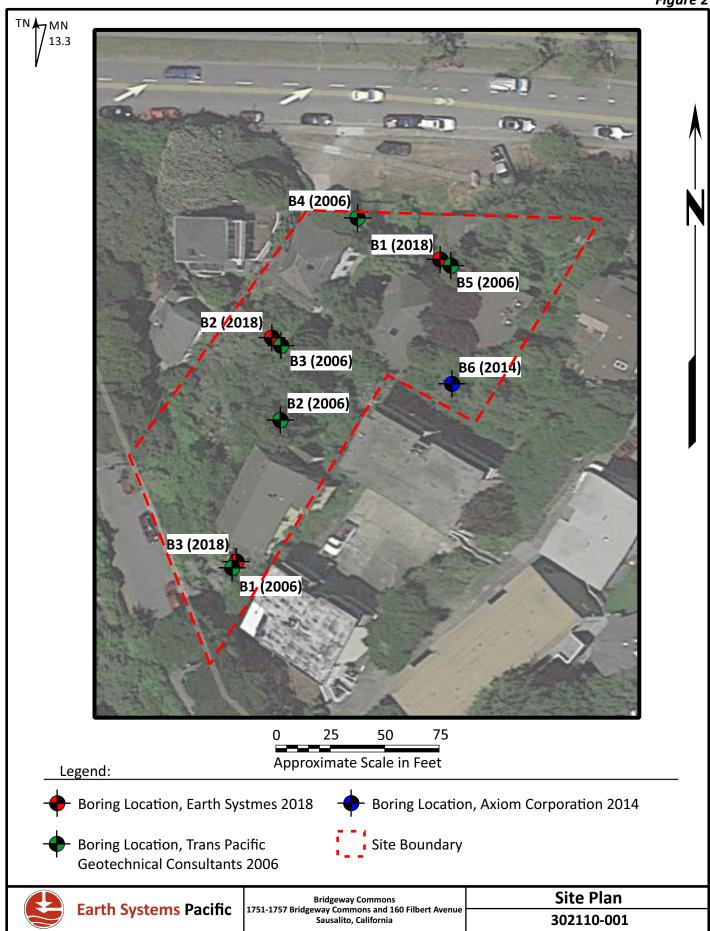
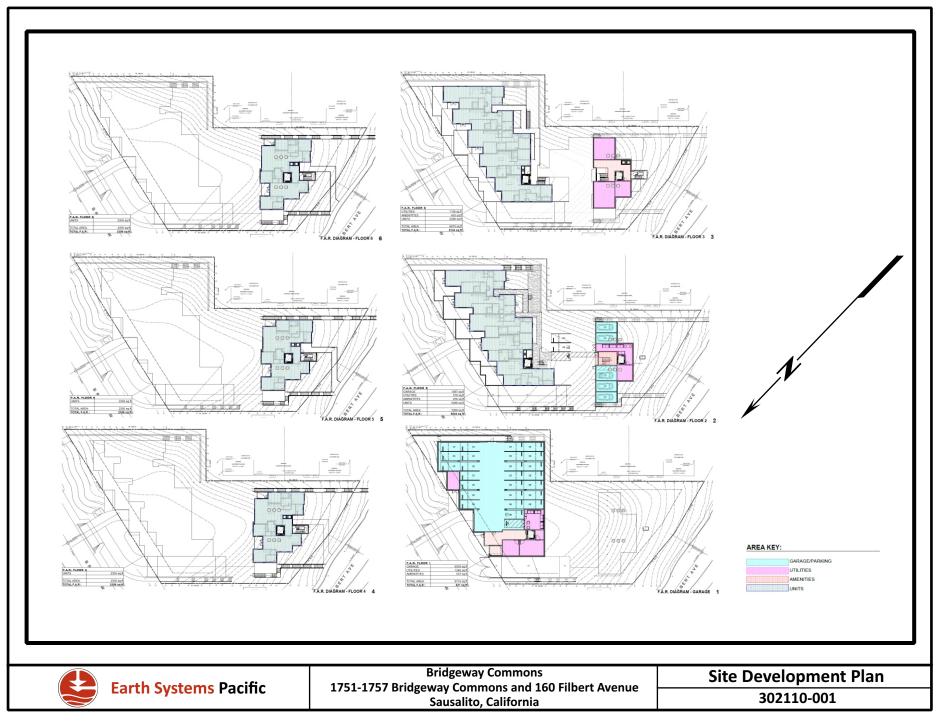


Figure 2





APPENDIX A

Boring Logs



Earth Systems Pacific

LOGGED BY: K. Ortiz DRILL RIG: Hydraulic Portable AUGER TYPE: 3" Continuous Flight Auger

PAGE 1 OF 1 JOB NO.: 302110-001 DATE: 6/6/2018 SAMPLE DATA ENSITY ocf) STURE %) ET PEN s.f) 48437 Warm Springs Boulevard RVAL et) PLE BER APLE 'PE SWS 6 IN.

	ω.		LNSO Temple		S	AMF	PLE DA	ΑTA		
DEPTH (feet)	USCS CLASS	SYMBOL	48437 Warm Springs Boulevard Fremont, California SOIL DESCRIPTION	INTERVAL (feet)	SAMPLE NUMBER	SAMPLE TYPE	RY DENSITY (pcf)	MOISTURE (%)	BLOWS PER 6 IN.	POCKET PEN (t.s.f)
0	CL		SANDY LEAN CLAY; very stiff, dark gray brown, moist, some red and yellow brown sand, fine-grained sand, trace rootlets [FILL] [Normal Stress=1500 psf,	1.0-2.5	1-1		109	13.8	6 10 11	<4.5
- 3 -			Shear Strength=1125 psf]	110 210			100	2010		
4 - 5 - 6	CL		LEAN CLAY WITH SAND; very stiff, olive brown,moist, heavy oxidation staining, fine-grained sand, trace coarse-grained sand [NATIVE] [Normal Stress=2000 psf, Shear Strength=2250 psf]	3.5-5.0	1-2		107	20.6	6 13 19	<4.5
- 7 - 8	CL		SANDY LEAN CLAY; hard, yellow brown, moist, fine-grained							
- 9 -			sand, heavy oxidation staining, some sandstone fragments [Normal Stress=3000 psf,	8.5-10.0	1-3		122	12.6	13 24 30	<4.5
10 - 11 - 12 -		1111111111	Shear Strength=6450 psf]					12.0		
13 - 14 - 15			[Normal Stress=4000 psf,	13.5-15.0	1-4		111	19.1	15 25 30	4.5
- 16 - 17			Shear Strength=3495 psf]							
- 18 - 19	ROCK		SANDSTONE; completely weathered to a clayey sand matrix, light yellow brown, soft to firm							
- 20			-moderately weathered	20.5-20.5	1-5				50/6"	
21 - 22 - 23			Bottom of boring at 20.5' Groundwater not encountered							
- 24 - 25										
- 26 -										
LEGEN	ND:	2.5	" Mod Cal Sample (🗍 Bulk Sample 🔲 2" Cal Sample	SPT 🗧	🖌 Gro	oundw	/ater			

LEGEND: 2.5" Mod Cal Sample O Bulk Sample 2" Cal Sample SPT F Groundwater NOTE: This log of subsurface conditions is a simplification of actual conditions encountered. It applies at the location and time of drilling. Subsurface conditions may differ at other locations and times.



Earth Systems Pacific

LOGGED BY: K. Ortiz DRILL RIG: Hydraulic Portable AUGER TYPE: 3" Continuous Flight Auger PAGE 1 OF 1 JOB NO.: 302110-001 DATE: 6/6/2018

Boring No. 2

	S		LNSO Temple		SAMPLE DATA					
(feet)	USCS CLASS	SYMBOL	48437 Warm Springs Boulevard Fremont, California	INTERVAL (feet)	SAMPLE NUMBER	SAMPLE TYPE	DRY DENSITY (pcf)	MOISTURE (%)	BLOWS PER 6 IN.	POCKET PEN (t.s.f)
₀_	CI	X-X-	SOIL DESCRIPTION SANDY LEAN CLAY; very stiff, dark brown, moist,		~ ~		Ц	2		ы М
	CL		fine-grained sand, some yellow brown sand, trace rootlets						9 11	
			[Normal Stress=2000 psf, Shear Strength=2900 psf] -color change to yellow brown	1.0-2.5	2-1		109	13.8	8	<4.5
		J.J.J.J.J.	[Normal Stress=3000 psf, Shear Strength=2730 psf]	3.5-5.0	2-2		107	20.6	14 18	<4.5
- - - - - 1 - - 2		ANN	-hard [Normal Stress=4000 psf, Shear Strength=3830 psf] -color change to olive gray	8.5-10.0	2-3		122	12.6	8 15 23	3
		JAN	-color change to dark yellow brown [LL=45, PI=26] [Normal Stress=5000 psf, Shear Strength=3570 psf]	13.5-15.0	2-4		111	19.2	13 20 30	<4.!
, ,	ROCK		SANDSTONE; completely to highly weathered to a clayey matrix, yellow brown, firm -sandy matrix	18.5-19.5	2-3		122	12.6	16 50/6"	<4.5
1 2				21.5-22.0	2-3	•	122	12.6	50/6	
- - - - - - - - - - -			Bottom of boring at 22.5' Groundwater encountered at 12.5'							

LEGEND: 2.5" Mod Cal Sample O Bulk Sample 2" Cal Sample SPT Groundwater NOTE: This log of subsurface conditions is a simplification of actual conditions encountered. It applies at the location and time of drilling. Subsurface conditions may differ at other locations and times.



Earth Systems Pacific

LOGGED BY: K. Ortiz DRILL RIG: Hydraulic Portable AUGER TYPE: 3" Continuous Flight Auger

ې ۷			LNSO Temple	SAMPLE DATA						
DEPTH (feet)	USCS CLASS	SYMBOL	48437 Warm Springs Boulevard Fremont, California	INTERVAL (feet)	SAMPLE NUMBER	SAMPLE TYPE	DRY DENSITY (pcf)	MOISTURE (%)	BLOWS PER 6 IN.	POCKET PEN (t.s.f)
o			SOIL DESCRIPTION		07 Z		R	Σ	<u> </u>	PO
- 1 -	CL		SANDY LEAN CLAY; stiff, dark brown, moist, fine-grained sand, trace brick fragments [FILL]						6	
2 - 3			[Normal Stress=1500 psf, Shear Strength=820 psf]	1.0-2.5	3-1		100	14.4	7 10	<4.5
- 4 - 5 - 0	CL		LEAN CLAY WITH SAND; very stiff, olive brown,moist, heavy oxidation staining [NATIVE] [Normal Stress=2000 psf, Shear Strength=2080 psf]	3.5-5.0	3-2		110	18.7	6 10 15	2.5
6 - 7 - 8 -			-hard, trace sandstone fragments							
9 - 10 - 11			[Normal Stress=3000 psf, Shear Strength=3195 psf]	8.5-10.0	3-3		108	20.5	10 20 30	4.25
- 12 - 13 -			-color change to yellow brown, increase in sandstone fragments						12	
14 - 15 - 16 -			-color change to dark yellow brown [Normal Stress=5000 psf, Shear Strength=3945 psf]	13.5-15.0	3-4				21 30	<4.5
17 - 18	CL		SANDSTONE; completely to highly weathered to sandy clay matrix, yellow brown, soft to firm							
- 19 -				18.5-19.0 19.0-20.0	3-5A 3-5B		119	13.6	50/6" 30 50/6"	<4.5
20 - 21 - 22 -			Bottom of boring at 20.0' Groundwater not encountered							
23 - 24 - 25 - 26										
-	ND:	2.5	" Mod Cal Sample (Bulk Sample 🗀 2" Cal Sample	SPT -	Gro	bundw	/ater			

NOTE: This log of subsurface conditions is a simplification of actual conditions encountered. It applies at the location and time of drilling. Subsurface conditions may differ at other locations and times.

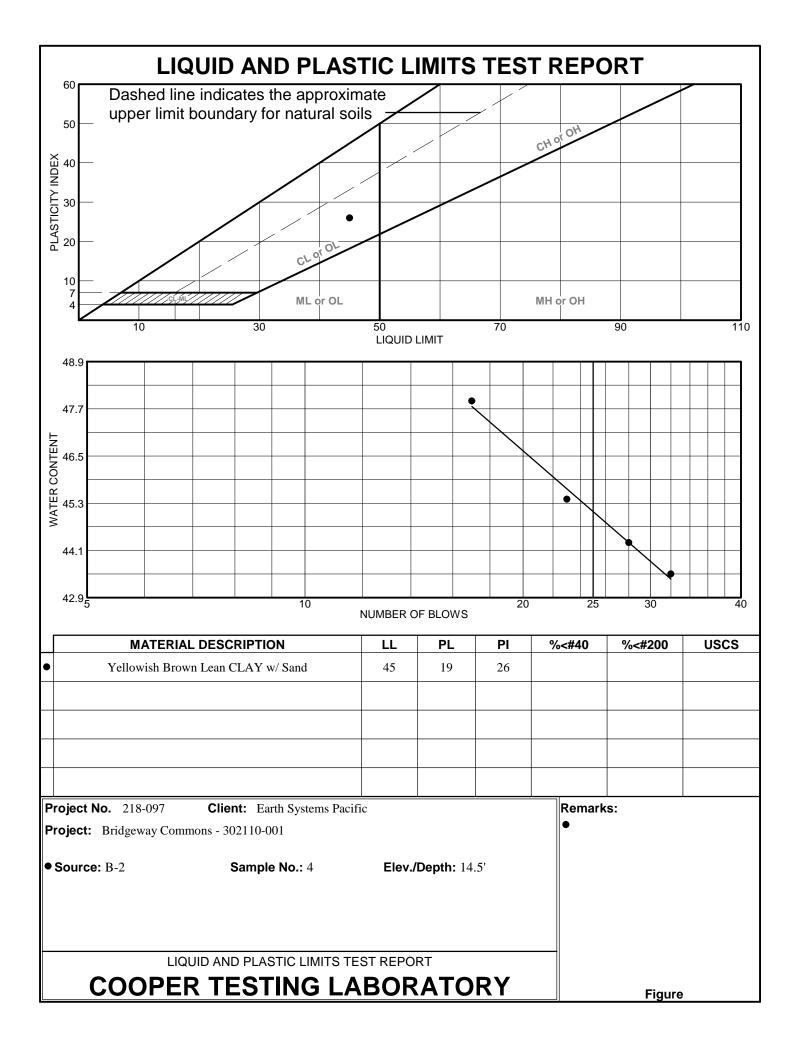
Boring No. 3

DATE: 6/7/2018

PAGE 1 OF 1 JOB NO.: 302110-001

APPENDIX B

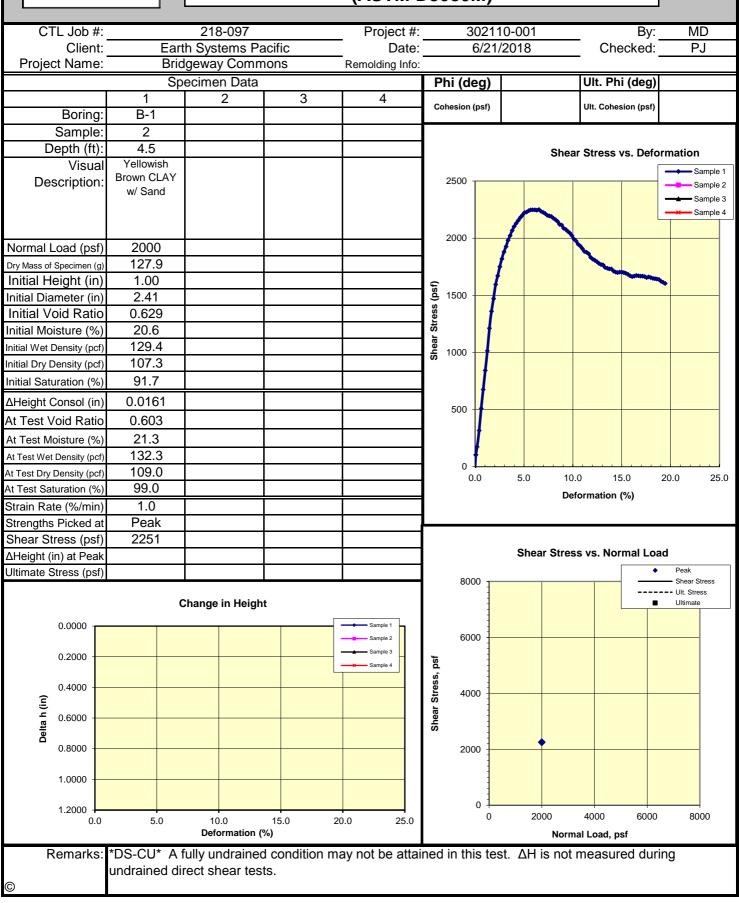
Laboratory Test Results



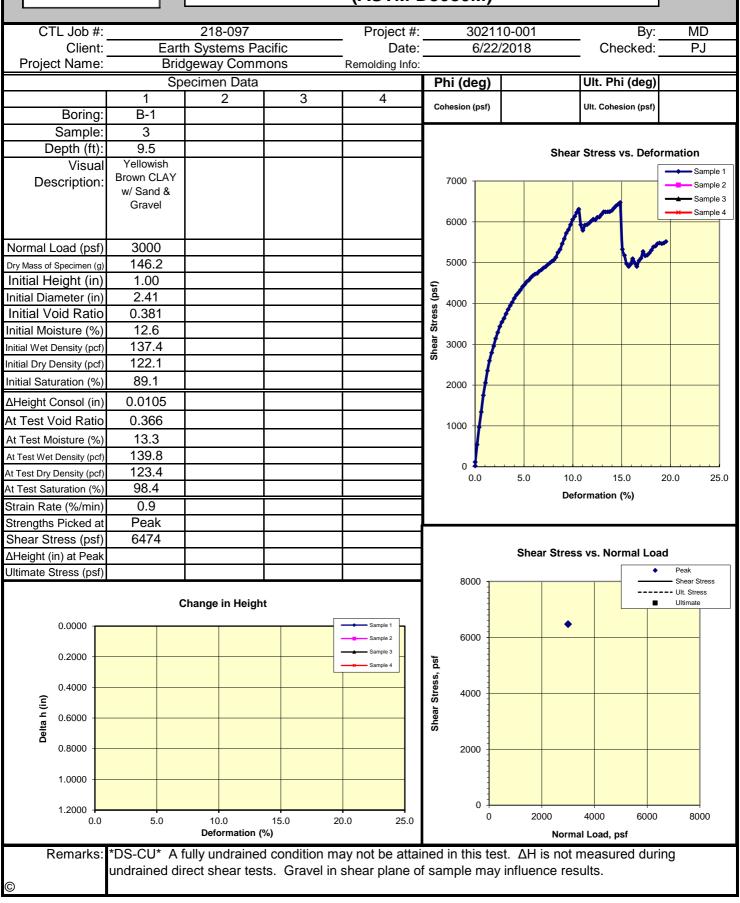


				(*******		<u> </u>			
CTL Job #:		218-097		Project #:		30211	0-001	By:	MD
Client:		h Systems Pa	acific	Date:				Checked:	PJ
Project Name:		geway Comm		Remolding Info:				_	
	Spe	ecimen Data			Ph	i (deg)		Ult. Phi (deg)	
	1	2	3	4					
Boring:	B-1				Coh	esion (psf)		Ult. Cohesion (psf)	
Sample:	1								
Depth (ft):	2						Shea	ar Stress vs. Defo	ormation
Visual	Dark Yellowish								Sample 1
Description:	Brown CLAY w/ Sand				1	200			Sample 2
	w/ Gana								Sample 3
						000			Sample 4
	1=00				1	000	1		
Normal Load (psf)							<i>[</i>		
Dry Mass of Specimen (g)						800			
Initial Height (in) Initial Diameter (in)	1.00 2.40				Shear Stress (psf)	-			
Initial Diameter (in)					l) ss	- I I			
Initial Moisture (%)					Stre	600			
Initial Wet Density (pcf)					ear 3				
Initial Dry Density (pcf)					Sh				
Initial Saturation (%)						400			
∆Height Consol (in)									
At Test Void Ratio						200			
At Test Moisture (%)						- F			
At Test Wet Density (pcf)									
At Test Dry Density (pcf)						0.0	5.0 10	.0 15.0	20.0 25.0
At Test Saturation (%)							De	formation (%)	
Strain Rate (%/min)									
Strengths Picked at									
Shear Stress (psf)							Shear Stres	ss vs. Normal Lo	ad
∆Height (in) at Peak Ultimate Stress (psf)									Peak
Olimate Stress (psi)		<u> </u>				8000			
	с	hange in Heigh	t						Ult. Stress Ultimate
0.0000		5	Г	Sample 1					
0.0000				Sample 2		6000			
0.2000				Sample 3	ب				
				Sample 4	Shear Stress, psf				
0.4000 —					res	4000			
(ii)					ır St	4000			
Delta h (in)					Shea	-			
Del									
0.8000						2000			
1.0000							•		
1.0000									
1.2000						0	0000	4000	
0.0	5.0	10.0 Deformation (0.0 25.0		0	2000	4000 6000	8000
- · ·								nal Load, psf	
Remarks:				ay not be attai	ned i	n this tee	st. ΔH is not	measured dur	ing
	undrained dir	rect shear test	IS .						
©									

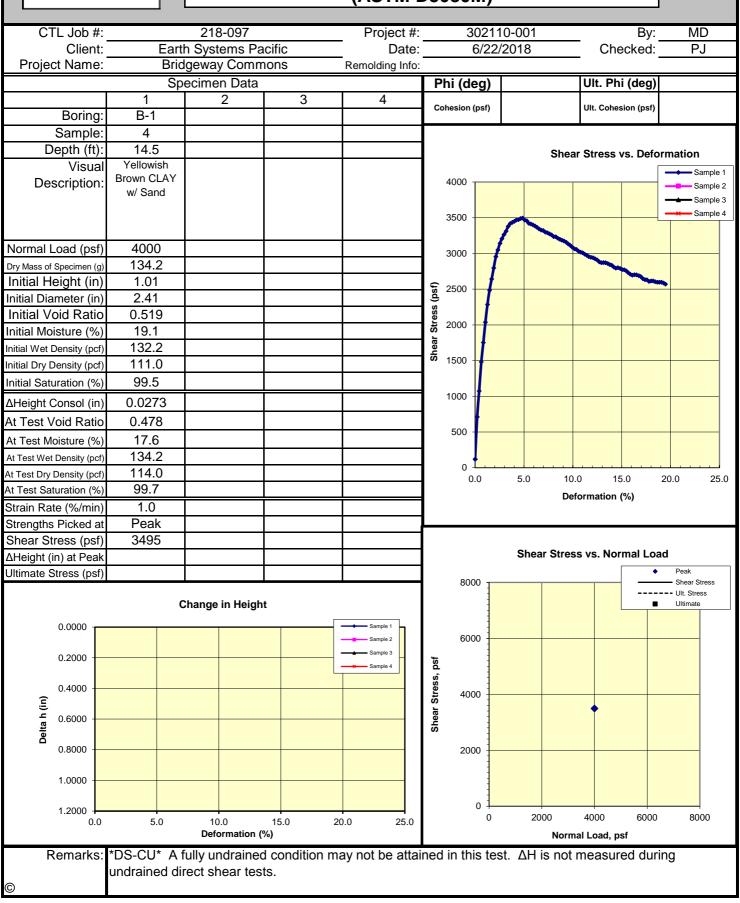




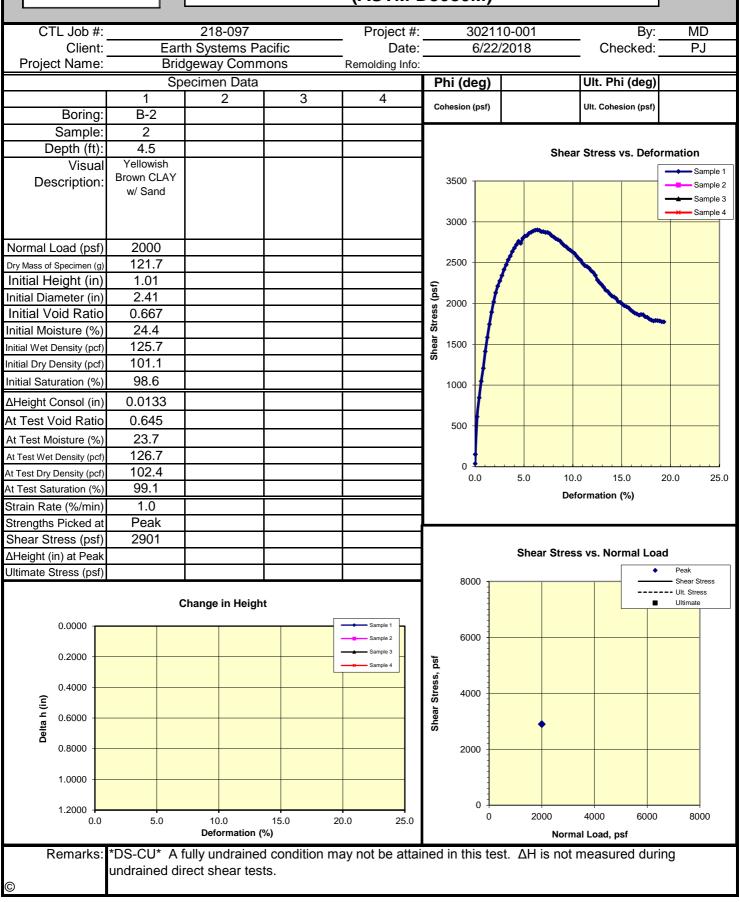




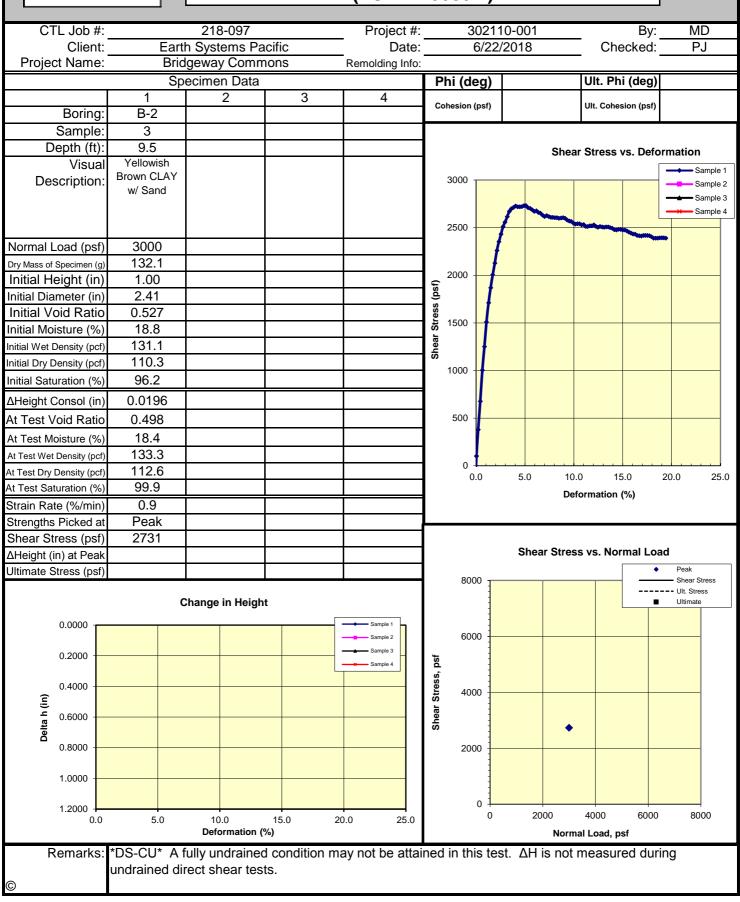




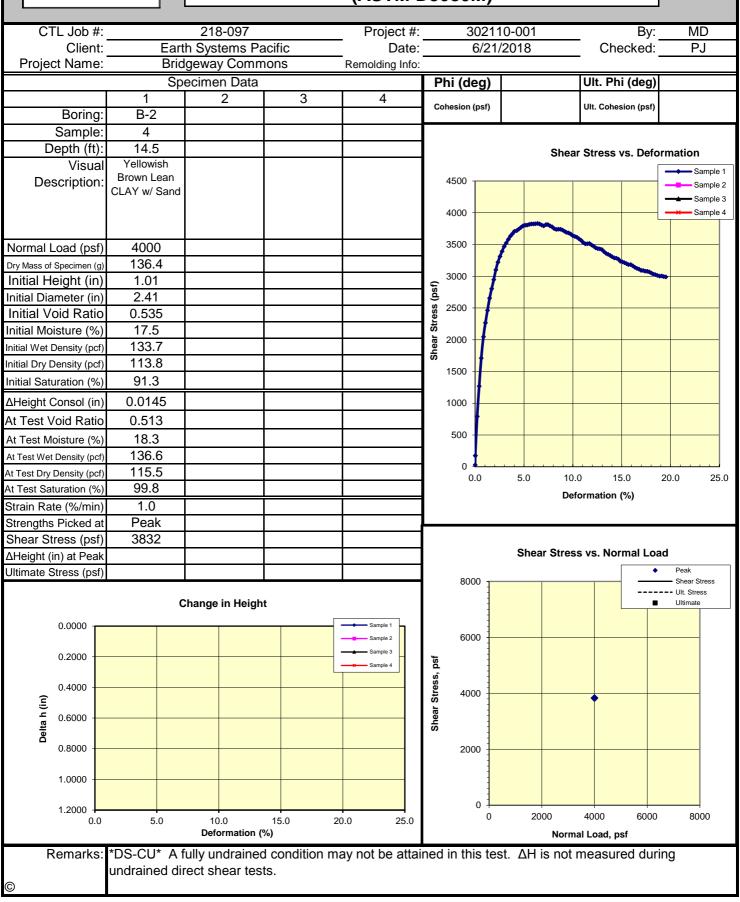














CTL Job #:		218-097		Project #:	3021	10-001	By:	MD
Client:		h Systems Pa	cific	Date:		/2018	Checked:	PJ
Project Name:	Brid	lgeway Comm	ions	Remolding Info:			_	
		ecimen Data			Phi (deg)		Ult. Phi (deg)	
	1	2	3	4				
Boring:	B-2				Cohesion (psf)		Ult. Cohesion (psf)	
Sample:	5							
Depth (ft):	19					Shea	ar Stress vs. Defo	rmation
Visual	Yellowish						[Sample 1
Description:	Brown Sandy CLAY				4000			Sample 2
	CLAT							
					3500 -			Sample 4
								
Normal Load (psf)	5000		<u> </u>		3000			
Dry Mass of Specimen (g)	130.6			-	1			
Initial Height (in)	1.01				्रि 2500 -			
Initial Diameter (in)	2.42				2500 Britess 2000			
Initial Void Ratio	0.603 20.0				2000 -			
Initial Wet Density (pcf)	128.5				Shear Shear			
Initial Dry Density (pcf)	128.5				້ ສ໌ 1500			
Initial Saturation (%)	91.3							
					1000 -			
∆Height Consol (in)	0.0338			-				
At Test Void Ratio	0.550		<u> </u>		500 -			
At Test Moisture (%)	19.9		<u> </u>					
At Test Wet Density (pcf)	132.9		<u> </u>		o 1			
At Test Dry Density (pcf)	110.8		<u> </u>		0.0	5.0 10	.0 15.0	20.0 25.0
At Test Saturation (%)	99.7		j			De	formation (%)	
Strain Rate (%/min)	1.0			-				
Strengths Picked at	Peak							
Shear Stress (psf)	3572					Shear Stree	ss vs. Normal Loa	hd
∆Height (in) at Peak Ultimate Stress (psf)						enear ener		Peak
Olumate Stress (psi)					8000			- Shear Stress
	c	hange in Heigh	t					Ult. Stress Ultimate
0.0000		0 0	Г	Sample 1				
0.0000				Sample 2	6000			
0.2000				Sample 3				
			l l		Shear Stress, psf			
0.4000					4000 tres			
(in)							•	
Delta h (in)					Shee			
Del					1			
0.8000					2000			
1.0000 -								
1.0000								
1.2000					0	2000	4000 0000	0000
0.0	5.0	10.0 Deformation (%		20.0 25.0	0	2000	4000 6000	8000
							nal Load, psf	
Remarks:				nay not be attai	ned in this te	sτ. ΔH is not	measured dur	ng
0	unurained dir	rect shear test	5.					
©								

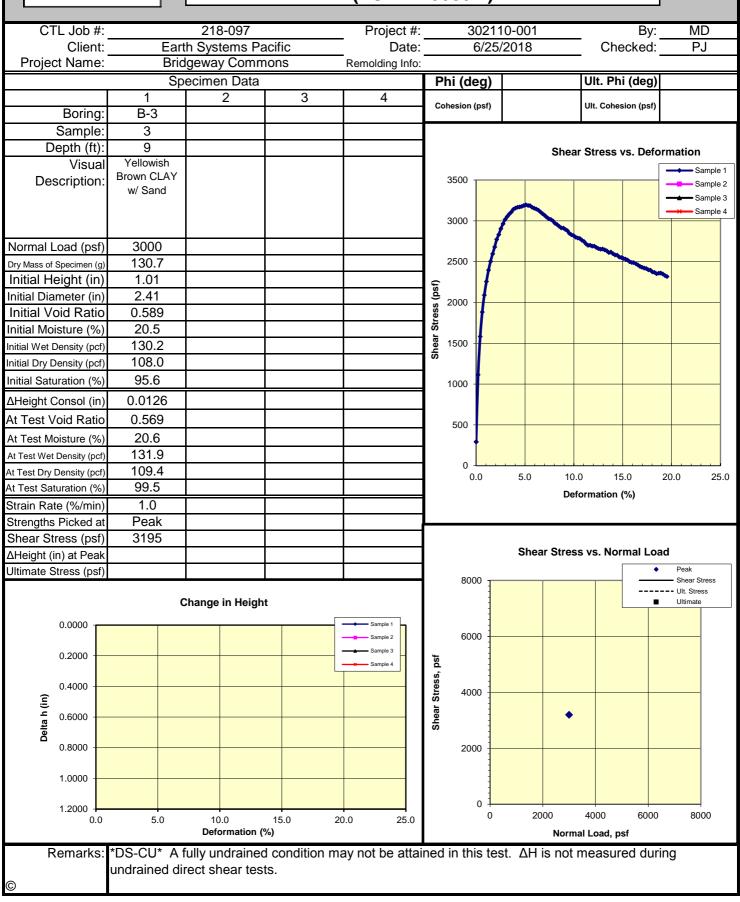


							,		
CTL Job #:		218-097		Project #:		302	110-001	By:	MD
Client:		h Systems Pa	cific	Date:			25/2018	Checked:	PJ
Project Name:		deway Comm		Remolding Info:				- ·	
	Sp	ecimen Data			Ρ	hi (deg)		Ult. Phi (deg)	
	1	2	3	4					
Boring:	B-3				Co	hesion (psf))	Ult. Cohesion (psf)	
Sample:	1								
Depth (ft):							Shea	ar Stress vs. Defo	rmation
Visual								[Sample 1
Description:	Brown CLAY w/ Sand					900			Sample 2
	w/ Gand							·····	Sample 3
						800			Sample 4
	4500					700			
Normal Load (psf)						/00	1		
Dry Mass of Specimen (g)	118.9 1.00					600	\mathbf{I}		
Initial Height (in) Initial Diameter (in)		<u> </u>			psf)		7		
Initial Void Ratio) ss	500 🕂			
Initial Moisture (%)	14.4				Stress (psf)				
Initial Wet Density (pcf)					Shear	400			
Initial Dry Density (pcf)					ъ				
Initial Saturation (%)						300			
ΔHeight Consol (in)						200			
At Test Void Ratio						200			
		<u> </u>				100			
At Test Moisture (%) At Test Wet Density (pcf)									
At Test Dry Density (pcf)						0			
At Test Saturation (%)						0.0	5.0 10		20.0 25.0
Strain Rate (%/min)							De	formation (%)	
Strengths Picked at									
Shear Stress (psf)									
∆Height (in) at Peak							Shear Stres	ss vs. Normal Loa	d
Ultimate Stress (psf)								•	Peak
						8000 -			Ult. Stress
	C	hange in Heigh	t			-		•	Ultimate
0.0000				Sample 1		-			
				Sample 2		6000			
0.2000					psf	-			
					Shear Stress, psf	-			
0.4000 E					Stre	4000			
ت ب 0.6000					ear	-			
Delta h (in)					sh	-			
0.8000						2000			
						-			
1.0000 +						-	•		
						0			
1.2000 – 0.0	5.0	10.0		0.0 25.0		Ű	2000	4000 6000	8000
		Deformation (%)				Norn	nal Load, psf	
Remarks:	*DS-CU* A f	ully undrained	t condition m	ay not be attai	ned	in this t	est. ΔH is not	measured duri	ng
	undrained dir	rect shear tes	ts.						
©									

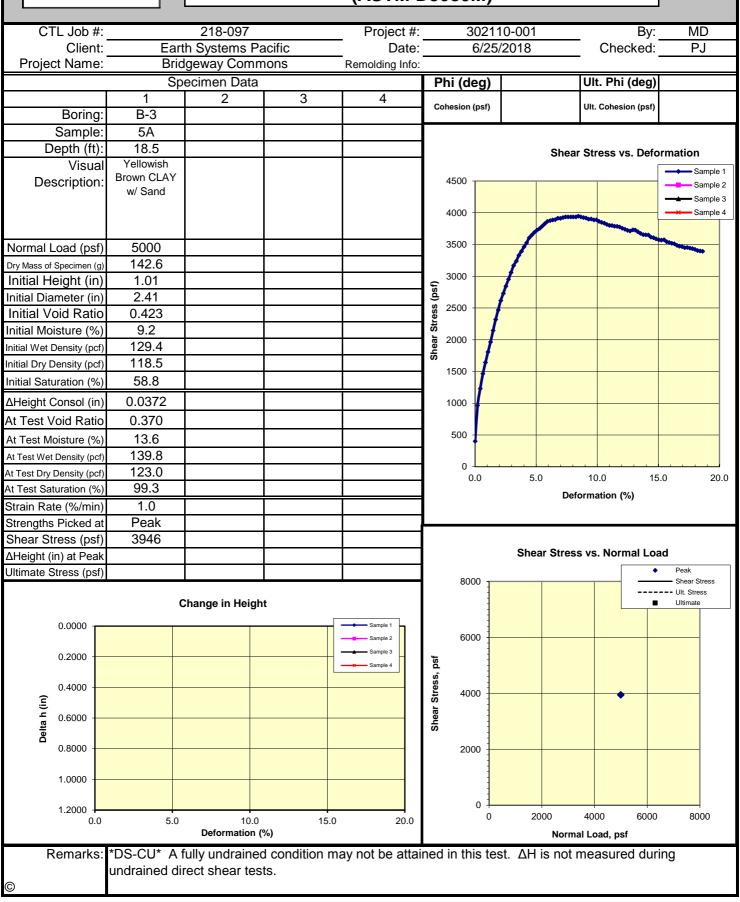


				<u> </u>				
CTL Job #:		218-097		Project #:	3021	10-001	By:	MD
Client:		h Systems Pa	acific	Date:		/2018	Checked:	PJ
Project Name:		geway Comm		Remolding Info:				
		ecimen Data		_	Phi (deg)		Ult. Phi (deg)	
	1	2	3	4				
Boring:	B-3				Cohesion (psf)		Ult. Cohesion (psf)	
Sample:	2							
Depth (ft):	4					She	ar Stress vs. Defo	rmation
Visual	Dark Yellowish						[Sample 1
Description:	Brown CLAY w/ Sand				2500			Sample 2
	w Sanu							
								Sample 4
					2000	/m		
Normal Load (psf)	2000						and the second s	
Dry Mass of Specimen (g)	132.6			-				•
Initial Height (in)	1.00				(fs. 1500			
Initial Diameter (in) Initial Void Ratio	2.41				Shear Stress (pst)			
Initial Void Ratio	0.527 18.7				Stree			
Initial Wet Density (pcf)	131.0				ear (
Initial Dry Density (pcf)	110.4		<u> </u>		ຮູ້ 1000			
Initial Saturation (%)	95.9		[ł			
				1				
∆Height Consol (in)				-	500 -			
At Test Void Ratio								
At Test Moisture (%)								
At Test Wet Density (pcf)	132.7				0			
At Test Dry Density (pcf)	111.7				0.0	5.0 10	0.0 15.0	20.0 25.0
At Test Saturation (%)	99.8					De	eformation (%)	
Strain Rate (%/min)								
Strengths Picked at	Peak 2080							
Shear Stress (psf) ΔHeight (in) at Peak	2060					Shear Stre	ss vs. Normal Loa	d
Ultimate Stress (psf)			<u> </u>	-			•	Peak
Olimate Oliess (psi)		<u> </u>	<u> </u>		8000			- Shear Stress
	с	hange in Heigh	t					 Ult. Stress Ultimate
0.0000		0 0	Г	Sample 1				
0.0000				Sample 2	6000			
0.2000				Sample 3				
					Shear Stress, psf			
0.4000 —					4000 tres			
(i)					ar St			
Delta h (in)					Shee			
Ē								
0.8000					2000			
1.0000 -								
1.0000					1			
1.2000					o 1	2000	4000 6000	8000
0.0	5.0	10.0 Deformation (9		20.0 25.0	0			0000
, , , , , , , , , , , , , , , , , , ,							nal Load, psf	
Remarks:				iay not be attai	nea in this tes	st. ДН IS not	measured duri	ng
0	unurained dir	rect shear test	.5.					
©								



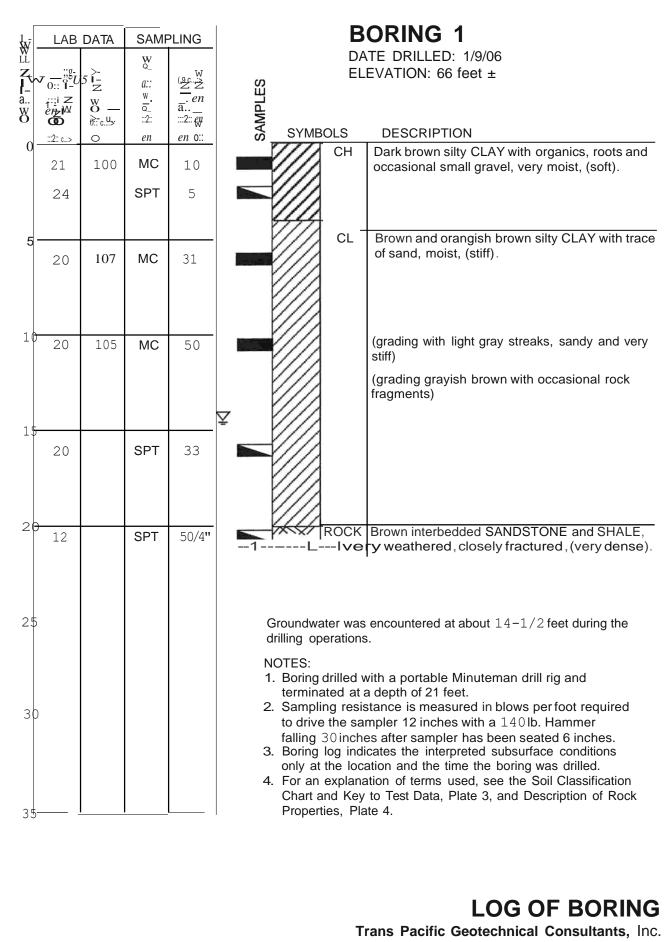






APPENDIX C

Boring Log, 2014 Investigation Boring Logs, 2006 Investigation



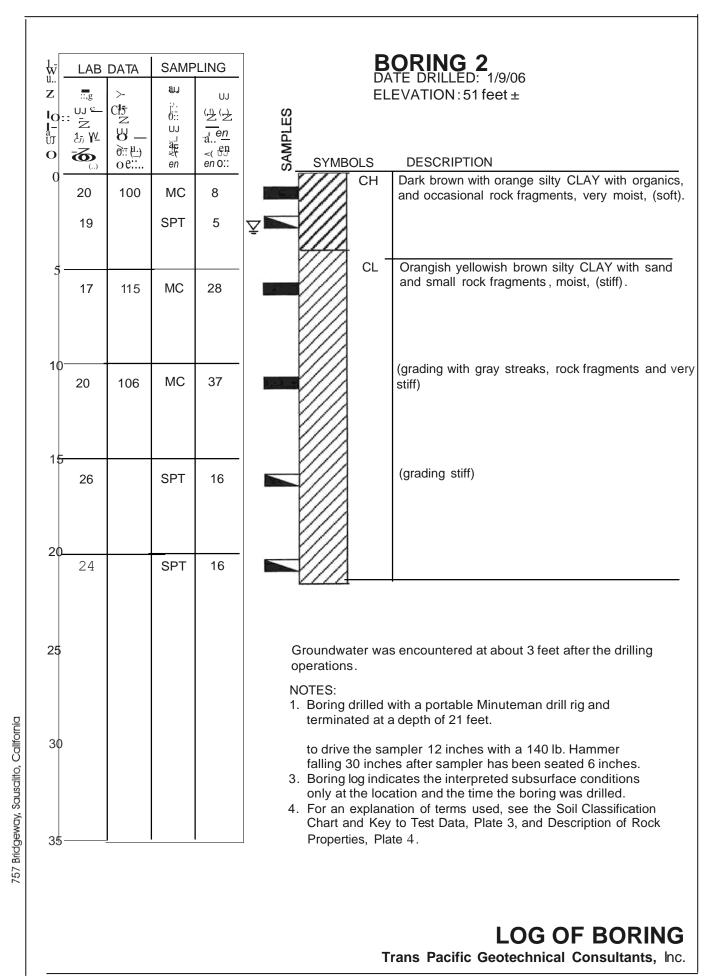
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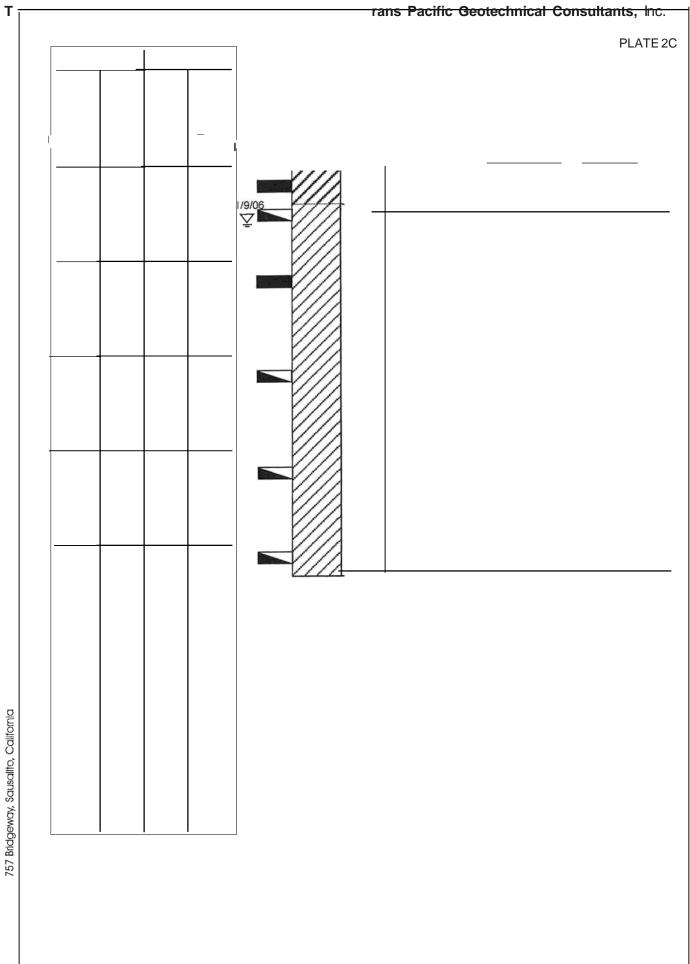
757 Bridgeway, ^a o

PLATE 2A

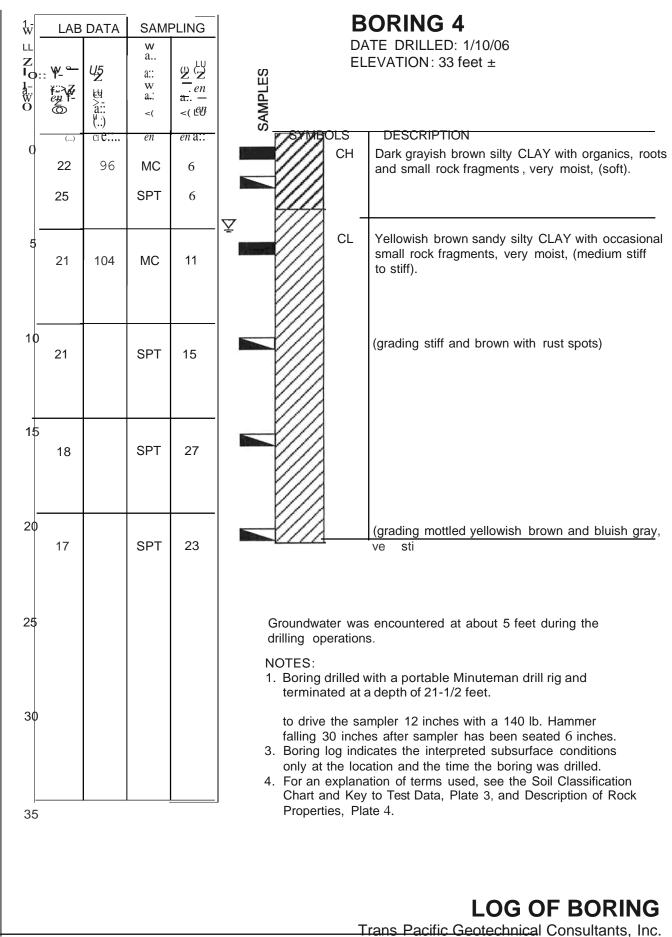


1- W	LAB [ΟΑΤΑ	SAMP w	LING			B	ORING 3 TE DRILLED: 1/9/06
⊔ Z	^₀ : <i>R</i> . W —	en :z	a 0::::	✐₫		¢P	EL	EVATION: 44 feet \pm
1-	0:::: I- ∷:> Z	W	W -	–j:S		J		
сі Ю	1-₩ ЮЮ	_ & _	J a		1/10/06	0.		
	::2: {.)	0e;	<((⁄)	<(W (/) 0:::		eniSIM,	4.B <u>OLS</u>	<u>DESCRIPTION</u>
0	28	103	MC	7			СН	Dark grayish brown silty CLAY with organics, roots and rock fragments, very moist, (soft).
	20		SPT	6			CL	Brown silty CLAY with small rock fragments, moist, (medium stiff).
5	22	101	MC	34				(grading orangish and yellow ish brown with light gray streaks, small rock fragments and stiff)
10	15		SPT	34				(grading with more rock fragments)
15	19		SPT	17				(grading with sand and stiff)
20	20		SPT	47				(grading with more gravel and stiff)
25						operations,		encountered at 3 feet during the drilling the ground surface afterwards.
30						terminat to drive	ed at a the sar	vith a portable Minuteman drill rig and depth of 21-1/2 feet. npler 12 inches with a 140 lb. Hammer
35						 Boring lo only at t For an e 	og indio he loca explana id Key	es after sampler has been seated 6 inches. cates the interpreted subsurface conditions ation and the time the boring was drilled. tion of terms used, see the Soil Classification to Test Data, Plate 3, and Description of Rock te 4.

LOG OF BORING

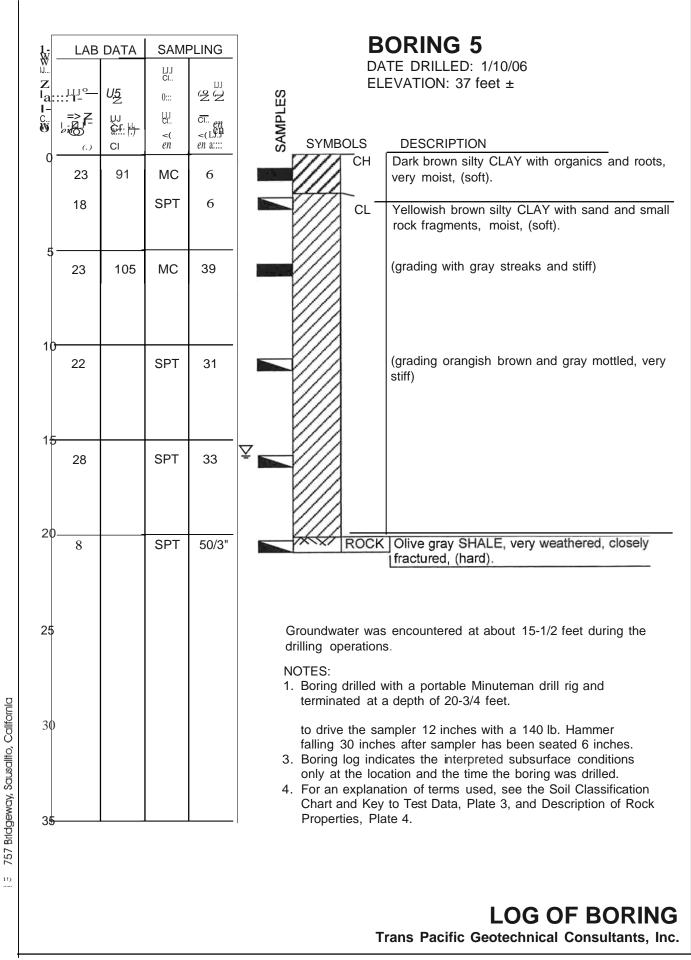


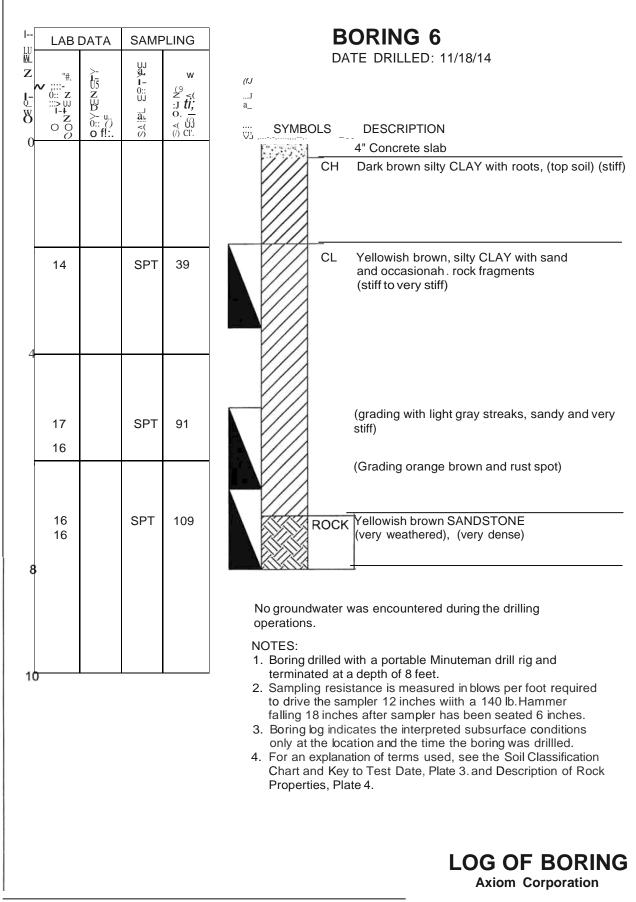
Т



757 Bridgeway, Sausalito, California

PLATE 2D





14-942-02 Jardine's Lockout 1745 & 1757 Bridgeway, Sausalito, California

Appendix F

Noise Modeling Details



Construction - Leq

				Reference Emission	
	Distance to Nearest	Combined Predicted		Noise Levels (L _{max}) at 50	Usage
Location	Receptor in feet	Noise Level (L _{eq} dBA)	Equipment	feet ¹	Factor ¹
FTA Daytime Residential Threshold	31	90.0	Dozer	85	0.4
			Grader	85	0.4
			Excavator	85	0.4
Distance from center of construction	60	84.2			

Ground Type	hard
Source Height	8
Receiver Height	5
Ground Factor ²	0.00

Predicted Noise Level ³	L _{eq} dBA at 50 feet ³
Dozer	81.0
Grader	81.0
Excavator	81.0

Combined Predicted Noise Level (L_{eq} dBA at 50 feet) 85.8

Sources:

 $^{\rm 1}$ Obtained from the FHWA Roadway Construction Noise Model, January 2006. Table 1.

² Based on Figure 6-5 from the Federal Transit Noise and Vibration Impact Assessment, 2006 (pg 6-23).
 ³ Based on the following from the Federal Transit Noise and Vibration Impact Assessment, 2006 (pg 12-3).

based on the following from the rederal framer koise and violation impact Assessment, 2006 (bg 12-5). $L_{eq}(equip) = E.L.+10*log (U.F.) - 20*log (D/50) - 10*G*log (D/50)$

Where: E.L. = Emission Level;

U.F.= Usage Factor;

 ${\rm G}$ = Constant that accounts for topography and ground effects (FTA 2006: pg 6-23); and

D = Distance from source to receiver.



Construction (Lmax)

Location	Distance to Nearest Receptor in feet	Combined Predicted Noise Level (Leg dBA)	Equipment	Reference Emission Noise Levels (L _{max}) at 50 feet ¹	Usage Factor ¹
Daytime Residential Threshold	49	90.0	Dozer Grader excavator	85 85 85	1 1 1
Distance from center of construction	60	88.2			

Ground Type	hard
Source Height	8
Receiver Height	5
Ground Factor ²	0.00

Predicted Noise Level ³	L _{eq} dBA at 50 feet ³
Dozer	85.0
Grader	85.0
excavator	85.0

Combined Predicted Noise Level (L_{eq} dBA at 50 feet)

89.8

Sources:

¹ Obtained from the FHWA Roadway Construction Noise Model, January 2006. Table 1.

² Based on Figure 6-5 from the Federal Transit Noise and Vibration Impact Assessment, 2006 (pg 6-23).

³ Based on the following from the Federal Transit Noise and Vibration Impact Assessment, 2006 (pg 12-3).

 $L_{eq}(equip) = E.L.+10*log (U.F.) - 20*log (D/50) - 10*G*log (D/50)$

Where: E.L. = Emission Level;

U.F.= Usage Factor;

 ${\rm G}$ = Constant that accounts for topography and ground effects (FTA 2006: pg 6-23); and

D = Distance from source to receiver.

Equipment Description	Acoustical Usage Factor (%)	Spec 721.560 Lmax @ 50ft (dBA slow)	Actual Measured Lmax @ 50ft (dBA slow)	No. of Actual Data Samples (count)	Spec 721.560 LmaxCalc	Spec 721.560 Leq	Distance	Actual Measured LmaxCalc	Actual Measured Leq
Auger Drill Rig	20	85	84	36	79.0	72.0	100	78.0	71.0
Backhoe	40	80	78	372	74.0	70.0	100	72.0	68.0
Bar Bender	20	80 94	na	0 0	74.0	67.0	100 100		
Blasting Boring Jack Power Unit	na 50	94 80	na 83	1	88.0 74.0	71.0	100	77.0	74.0
Chain Saw	20	85	84	46	79.0	71.0	100	77.0	74.0
Clam Shovel (dropping)	20	93	87	4	87.0	80.0	100	81.0	74.0
Compactor (ground)	20	80	83	57	74.0	67.0	100	77.0	70.0
Compressor (air)	40	80	78	18	74.0	70.0	100	72.0	68.0
Concrete Batch Plant	15	83	na	0	77.0	68.7	100		
Concrete Mixer Truck	40	85	79	40	79.0	75.0	100	73.0	69.0
Concrete Pump Truck	20	82	81	30	76.0	69.0	100	75.0	68.0
Concrete Saw Crane	20 16	90 85	90 81	55 405	84.0 79.0	77.0 71.0	100 100	84.0 75.0	77.0 67.0
Dozer	40	85	81	55	79.0	71.0	100	75.0	72.0
Drill Rig Truck	20	84	79	22	78.0	73.0	100	73.0	66.0
Drum Mixer	50	80	80	1	74.0	71.0	100	74.0	71.0
Dump Truck	40	84	76	31	78.0	74.0	100	70.0	66.0
Excavator	40	85	81	170	79.0	75.0	100	75.0	71.0
Flat Bed Truck	40	84	74	4	78.0	74.0	100	68.0	64.0
Front End Loader	40	80	79	96	74.0	70.0	100	73.0	69.0
Generator	50	82	81	19	76.0	73.0	100	75.0	72.0
Generator (<25KVA, VMS si		70	73	74	64.0	61.0	100	67.0	64.0
Gradall Grader	40 40	85 85	83 na	70 0	79.0 79.0	75.0 75.0	100 100	77.0	73.0
Grapple (on Backhoe)	40	85	87	1	79.0	75.0	100	81.0	77.0
Horizontal Boring Hydr. Jac		80	82	6	74.0	68.0	100	76.0	70.0
Hydra Break Ram	10	90	na	0	84.0	74.0	100		
Impact Pile Driver	20	95	101	11	89.0	82.0	100	95.0	88.0
Jackhammer	20	85	89	133	79.0	72.0	100	83.0	76.0
Man Lift	20	85	75	23	79.0	72.0	100	69.0	62.0
Mounted Impact Hammer (90	90	212	84.0	77.0	100	84.0	77.0
Pavement Scarafier Paver	20 50	85 85	90 77	2 9	79.0 79.0	72.0 76.0	100 100	84.0 71.0	77.0 68.0
Pickup Truck	40	55	75	9	49.0	45.0	100	69.0	65.0
Pneumatic Tools	50	85	85	90	79.0	76.0	100	79.0	76.0
Pumps	50	77	81	17	71.0	68.0	100	75.0	72.0
Refrigerator Unit	100	82	73	3	76.0	76.0	100	67.0	67.0
Rivit Buster/chipping gun	20	85	79	19	79.0	72.0	100	73.0	66.0
Rock Drill	20	85	81	3	79.0	72.0	100	75.0	68.0
Roller	20	85	80	16	79.0	72.0	100	74.0	67.0
Sand Blasting (Single Nozzle		85 85	96	9 12	79.0	72.0	100	90.0	83.0
Scraper Shears (on backhoe)	40 40	85 85	84 96	12 5	79.0 79.0	75.0 75.0	100 100	78.0 90.0	74.0 86.0
Slurry Plant	100	78	78	1	75.0	73.0	100	72.0	72.0
Slurry Trenching Machine	50	82	80	75	76.0	73.0	100	74.0	71.0
Soil Mix Drill Rig	50	80	na	0	74.0	71.0	100		
Tractor	40	84	na	0	78.0	74.0	100		
Tugboat	40	87	74	4	81.0	77.0	100	68.0	64.0
Vacuum Excavator (Vac-tru		85	85	149	79.0	75.0	100	79.0	75.0
Vacuum Street Sweeper	10	80	82	19	74.0	64.0	100	76.0	66.0
Ventilation Fan	100	85	79	13	79.0	79.0	100	73.0	73.0
Vibrating Hopper Vibratory Concrete Mixer	50 20	85 80	87 80	1 1	79.0 74.0	76.0 67.0	100 100	81.0 74.0	78.0 67.0
Vibratory Concrete Mixer	20	80 95	80 101	1 44	74.0 89.0	82.0	100	74.0 95.0	88.0
Warning Horn	5	85	83	12	79.0	66.0	100	93.0 77.0	64.0
Workboat	40	72	74	4	66.0	62.0	100	68.0	64.0
Welder / Torch	40	73	74	5	67.0	63.0	100	68.0	64.0
,				-	57.15	50.0	/	00.0	50

Source: FHWA Roadway Construction Noise Model, January 2006. Table 9.1 U.S. Department of Transportation CA/T Construction Spec. 721.560



KEY: Orange cells are for input.

Grey cells are intermediate calculations performed by the model.

Green cells are data to present in a written analysis (output).

STEP 1: Determine units in which to perform calculation.

- If vibration decibels (VdB), then use Table A and proceed to Steps 2A and 3A.
- If peak particle velocity (PPV), then use Table B and proceed to Steps 2B and 3B.

STEP 2A: Identify the vibration source and enter the reference vibration level (VdB) and distance.

STEP 3A: Select the distance to the receiver.

Table A. Propagation of vibration decibels (VdB) with distance

Noise Source/ID	Reference Noise Level				
	vibration level		distance		
	(VdB)	@	(ft)		
Vibratory Roller	94.0	@	25		
Large Bulldozer	87.0	@	25		
Vibratory Roller	94.0	@	25		
Large Bulldozer	87.0	@	25		

Attenuated Noise Level at Receptor					
vibration level		distance			
(VdB)	@	(ft)			
80.0	@	73			
79.9	@	43			
105.9	@	10			
98.9	@	10			

The Lv metric (VdB) is used to assess the likelihood for vibration to result in human annoyance.

STEP 2B: Identify the vibration source and enter the reference peak particle velocity (PPV) and distance.

STEP 3B: Select the distance to the receiver.

Table B. Propagation of peak particle velocity (PPV) with distance

Noise Source/ID	Reference Noise Level				
	vibration level	distance			
	(PPV)	@	(ft)		
Vibratory Roller	0.20	@	25		
Large Bulldozer	0.089	@	25		

Attenuated Noise Level at Receptor					
vibration level	vibration level				
(PPV)	@	(ft)			
0.189	@	26			
0.191	@	15			

The PPV metric (in/sec) is used for assessing the likelihood for the potential of structural damage.

Notes:

Computation of propagated vibration levels is based on the equations presented on pg. 185 of FTA 2018. Estimates of attenuated vibration levels do not account for reductions from intervening underground barriers or other underground structures of any type, or changes in soil type.

Federal Transit Association (FTA). 2018 (September). Transit Noise and Vibration Impact Assessment Manual. FTA Report No. 0123. Washington, D.C. Accessed: December 20, 2020. Page Available:

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

Appendix G

Circulation Study



DATE:	March 29, 2024
TO:	Kristin Teiche, Principal Planner
FROM:	David Parisi, Jimmy Jessup, Parametrix
SUBJECT:	Circulation Study for Bridgeway Commons Project
PROJECT NUMBER:	474-8948-005

Executive Summary

Parametrix performed a Circulation Study in 2018 to assess potential transportation-related impacts of the Bridgeway Commons project ("Project") at 1755 Bridgeway, Sausalito¹. The Project had 16 residential units within two multi-level buildings with enclosed parking on the ground level. Vehicular access to the property is via a 24-foot- wide driveway along Bridgeway that would provide right-turn ingress and right-turn egress.

This technical memorandum provides an update of this previous study to reflect the most recent Project application submittal, dated May 4, 2022, and to address updated California Environmental Quality Act (CEQA) requirements to evaluate vehicle miles traveled (VMT) as a metric to determine potential impacts.

The Project currently proposes development of 19 condominiums (three one-bedroom, 11 twobedroom, and five three-bedroom residential units). Vehicular access to the property is unchanged from the prior Project description. The Project also would provide 24 long-term, secure bicycle parking spaces inside one of the buildings.

This memorandum concludes that the Project would have a less-than-significant impact on level-ofservice (LOS) at nearby study intersections and a less-than-significant impact on VMT.

Existing Conditions

The Project encompasses Lot 02 and 03 of Assessor's Parcel 064-051, and covers approximately one-quarter of the block bounded by Bridgeway to the northeast, Filbert Avenue to the southwest, Easterby Street to the northwest and Napa Street to the southwest (Figure 1). The property currently consists of four residential structures (1745 Bridgeway, 1751 Bridgeway, 1757 Bridgeway, and 160 Filbert Avenue) that have been vacant for several years.

Vehicular access to the Project site is provided via Bridgeway, a major arterial street in Sausalito that is located along or near to the waterfront. It generally runs in the north-south direction from Downtown Sausalito to the northern City Limit where it connects to Highway 101. At the Project site, Bridgeway has two travel lanes in each direction with left-turn pockets provided at major intersections. The roadway also provides a sidewalk in both directions and an on-street bike lane (Class 2 bikeway). On-street parking is provided along the western edge of Bridgeway, but not along the eastern side.

¹ Parisi Transportation Consulting, Bridgeway Commons Circulation Study. August 2018.



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Regional access to the Project site is provided via Highway 101, an eight-lane freeway located along the western edge of the City. Highway 101 is a north-south highway that connects Sausalito to the City and County of San Francisco to the south, and the rest of County of Marin to the north.

The Project site is served by both local and regional public transit operators. Local transit to and from the Project site is provided by the Marin Transit District, while regional transit service is provided by Golden Gate Transit. There are bus stops at the northwest and southeast corners of the Bridgeway / Easterby Street / Marinship Way intersection.

Additionally, the Sausalito Ferry Terminal is located less than one mile away from the Project site. Ferry service connects from the terminal to the City and County of San Francisco.

Project Vehicle Trip Generation

The Project site has been vacant for several years and does not currently generate any vehicle trips. All future trips to and from the site would be new as a result of the Project.

Vehicle trip generation estimates were based on the Institute of Transportation Engineers (ITE) *Trip Generation Manual,* 11th *Edition*², which provides surveyed data on a variety of land uses collected throughout the United States. The manual contains data on the vehicle trip generation of the surveyed sites based on the number of dwelling units. The ITE Land Use 220, Multifamily Housing, (Low-Rise), within the manual was applied to the proposed residential uses as it most closely matches the description of the Project.

Table 1 summarizes the Project's estimated trip generation based on ITE Trip generation rates. As shown, the Project would generate an estimated 128 weekday vehicle-trips, eight vehicle-trips during the weekday AM peak hour, and 10 vehicle-trips during the weekday PM peak hour.

		Trip Generation			
ITE Land Use	Units		Daily	AM Peak	PM Peak
Multifamily Housing (Low-Rise)		Rate ¹	6.74 trips / DU	0.40 trips / DU	0.51 trips / DU
(Land Use 230)	19 DU	Trips	128	8	10

Table 1: Project Trip Generation Rates

Source: ITE *Trip Generation* (11th ed., 2021); Parametrix, 2024. Note: DU = Dwelling Units.

¹Average Rate.

The results in Table 1 reflect slightly fewer trips generated (128 daily vehicle trips) compared to the 2018 Circulation Study results (131 daily vehicle trips). This is the result of a lower trip generation rate for the ITE Land Use 230, which is based on updated input data from studies conducted across the nation and submitted to the ITE.

It is expected that a portion of residents and visitors of the Project would travel to and from the site by transit, walking, bicycling, and other non-motorized modes of transportation. This would be due to the provision of 24 long-term indoor bicycle parking spaces and the proximity to Downtown Sausalito, as well as bus and ferry transit. However, ITE's trip generation rates do not factor trip reductions due

² Institute of Transportation Engineers, Trip Generation Manual, 11th Edition. 2021.

to pedestrian- or bicycle-oriented travel. This study does not apply a discount to the vehicle-trip generation to account for such trips. The vehicle trip generation results displayed in this study should be considered conservative, as the proposed uses may actually generate lower vehicle trips due to the number of non-drive trips made by visitors to the site.

Traffic Impact Assessment

Potential impacts at Bridgeway's intersections with Easterby Street / Marinship Way and with Napa Street were evaluated based on existing travel patterns as described in the previous 2018 Circulation Study. In agreement with the City, vehicular traffic counts conducted at both intersections in May 2016 were determined to be appropriate for this study. The Project-generated trips were added to the traffic counts to estimate vehicle operations under an Existing plus Project condition.

Table 2 provides a summary of the LOS analysis for the study intersections. As the trip generation figures are very similar to the 2018 Circulation Study, the resulting LOS figures are also largely unchanged from the prior study. As shown, both intersections operate at or better than LOS C. This represents conditions with limited congestion along the corridor, and vehicles experiencing limited delays while travelling through the intersections. The addition of Project-generated traffic to the intersections would result in minimal increases (less than one second) in vehicle delay at both intersections during both the weekday AM and PM peak periods.

In the City of Sausalito General Plan³, Policy CP-1.6 describes the City's LOS standard to maintain a letter grade LOS of D or better for signalized intersections during the PM weekday peak hour. As displayed in Table 2, both intersections would continue to operate at or above the desired level of service.

		I	Existing C	conditio	ons	E	xisting pl Cond		ject
		AN	l Peak	PM	Peak	AM	Peak	PM	Peak
Intersection	Control	LOS	Delay1	LOS	Delay ¹	LOS	Delay1	LOS	Delay1
1 Bridgeway / Easterby St. / Marinship Way	Signal	В	13.2	В	11.3	В	13.2	В	11.6
2 Bridgeway / Napa Street	Two-Way Stop	С	15.2	С	21.6	С	15.3	С	21.7

Table 2: Intersection Level of Service – Existing plus Project Conditions

Source: Parametrix, 2024.

Note: LOS = Level of Service

¹ Delay in seconds per vehicle.

³ City of Sausalito, General Plan. Adopted February, 2021.

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Vehicle Miles Traveled

Senate Bill 743, signed into law in 2013, mandated a change in CEQA guidelines to utilize VMT, as opposed to vehicle flow or traffic congestion, as a more appropriate metric for assessing impacts associated with projects, in line with goals of helping to achieve climate commitments, improving health and safety, and prioritizing co-located land uses. VMT is calculated based on the sum of individual vehicle trips generated and their associated trip lengths. The use of VMT as a performance measure allows for the evaluation of fuel consumption by motor vehicles for distances traveled and impacts associated with greenhouse gas (GHG) emissions.

The State of California gives the lead agency discretion in selecting an appropriate methodology and significance threshold for VMT impacts. In December 2018, OPR published its Technical Advisory on Evaluating Transportation Impacts in CEQA ("Technical Advisory"). These guidelines direct lead agencies on how to evaluate project transportation impacts on the basis of VMT, as required by Senate Bill 743. The Transportation Authority of Marin (TAM) has made available a memo that includes suggestions for VMT thresholds of significance to be incorporated into its travel demand forecasting model for use by local lead agencies.

In its 2021 General Plan, the City of Sausalito describes the approach to utilizing VMT as a metric for assessing potential transportation impacts and identifies the TAM demand model (TAMDM) as the source of determining VMT generated by proposed land use projects. The threshold of significance applied to the Project, consistent with the OPR Technical Advisory, applied in this assessment is as follows:

• For residential projects, a proposed project that exceeds a project generated level of 15 percent below existing County average home-based VMT per resident may indicate a significant transportation impact.

The TAMDM lists average Marin County home-based VMT per resident as 15.8 for year 2015, and 15.0 for year 2040. The threshold of significance, 15 percent below the County average, is therefore 13.4 for year 2015 and 12.8 for year 2040.

VMT that would be generated by the Project was analyzed in accordance with geographic and circulation characteristics of the Project description and location. In the TAMDM, the Project is located in Transportation Analysis Zone (TAZ) 800.047, which exhibits an average home-based VMT per resident of 15.0 in year 2015 and 16.8 in year 2040.

Published material from the California Air Pollution Control Officers Association (CAPCOA)⁴ includes guidance for determining the estimated VMT reduction impact of various land use and vehicle trip reduction transportation measures. Measure T-1 describes the influence on VMT of a residential project reflecting higher residential dwelling unit density compared to an average surrounding dwelling unit density. Research that underpins this transportation measure demonstrates that an increase in residential density reduces both the number of vehicle trips and the length of vehicle trips generated by those dwelling units, therefore reducing overall VMT per resident.

This analysis calculates VMT reduction from the TAMDM VMT figures for TAZ 800.047 due to increased residential density to determine estimated VMT that would be generated by Project residents. The Project plans propose residential density of 27 dwelling units per acre, compared to an existing average residential density of eight dwelling units per acre in TAZ 800.047. Table 3

⁴ California Air Pollution Control Officers Association, Handbook for Analyzing Greenhouse Gas Emission Reductions, Assessing Climate Vulnerabilities, and Advancing Health and Equity. August 2021.

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displays projected VMT generated by the Project compared to the threshold of significance for years 2015 and 2040.

As the home-based VMT per resident of the Project is below the threshold of significance for both 2015 and 2040, the Project would have a less-than-significant VMT impact.

		Home-Based VMT per Resident				
Project Location	Year	County Average	Threshold of Significance	Project-Generated		
1755 Bridgeway,	2015	15.8	13.4	10.5		
Sausalito, California	2040	15.0	12.8	11.8		

Table 3. Project-Generated Home-Rased VMT	per Resident Compared with Threshold of Significance
Table 5. Floject-denerated nome-based vivil	per resident compared with mieshold of Significance

Source: TAM, 2021; Parametrix, 2024

In addition to increased Project dwelling unit density leading to reduced VMT per resident, there are other reasons to determine that the Project would generate lower VMT per resident compared to existing residential units located throughout TAZ 800.047. The Project site is located along Bridgeway within a half mile of transit stops, the public library, downtown Sausalito with various retail and service destinations, and the City's prominent bayside open space, Dunphy Park. The remainder of the TAZ is located primarily amongst hilly topography with access provided by indirect, undulating roadways that lack pedestrian or bicycle infrastructure. In contrast, the Project site fronts formal City sidewalks and bike lanes along gentler topography, and the Project includes provision of 24 long-term, secure bicycle parking spaces; these combined factors would facilitate Project trips to be made by walking, bicycling, and public transit compared to surrounding TAZ residences.

