3001-3017 EL CAMINO REAL

ARCHITECTURAL REVIEW BOARD -MAJOR PROJECT SUBMITTAL

PROJECT SITE

ADDRESS 3001-3017 El Camino Real

Palo Alto, CA 94306

PARCEL APN Lot 55 - 132-37-055 Lot 56 - 132-37-056

Lot 72 - 132-38-072

ZONING

LOT SIZE 49,864 SF (1.14 AC)

BUILDING TYPE (4) stories of Type VA over (1) story of Type IA

PROJECT DIRECTORY

OWNER: El Camino PA, L.P. C/O Charities Housing 1400 Parkmoor Ave., Suite 190 San Jose, CA 95126

Attn: Kathy Robinson T: 408.550.8311 E: krobinson@charitieshousing.org

E: danielsimons@dbarchitect.com

ARCHITECT: David Baker Architects 461 2nd St, Loft C-127 San Francisco, CA 94107 Attn: Daniel Simons T: 415.335.7064

CIVIL ENGINEER: Kier & Wright

3350 Scott Blvd., Bld 22 Santa Clara, CA 95054 Attn: Nektarios Matheou T: 408.727.6665 E: nmatheou@kierwright.com

PLANNING CONSULTANT: Rhoades Planning Group 2140 Shattuck Ave., Suite 705

Berkeley, CA 94704 Attn: Mark Rhoades T: 510.545.4341 E: info@rhoadesplanninggroup.com **LIGHTING CONSULTANT:**

KGM ARCHITECTURAL LIGHTINHG 270 Coral Circle, El Segundo, CA 90245

Attn: Dan Weinreber T: 310.606.8751 E: dweinreber@kgmlighting.com

LANDSCAPE CONSULTANT: Form/Work Landscape Architects

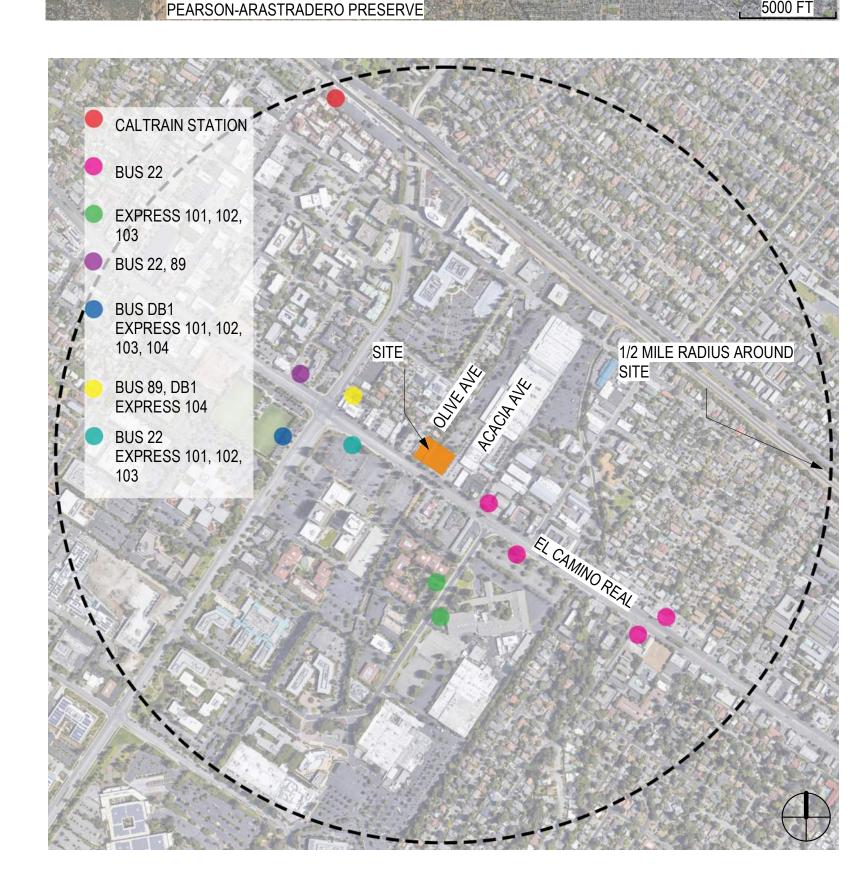
2585 University Ave San Diego, CA 92104 Attn: Michael Vail T: 619.269.4423

E: mike@formwork-la.com



VICINITY MAP

BAYLANDS NATURE PRESERVE BYXBEE PARK PALO ALTO JUNIOR MUSEUM AND



TITLE SHEET PROJECT DATA PARKING LIFT SYSTEM

SHEET INDEX

BIKE PARKING RESIDENTIAL CALGREEN CHECKLIST

ZONING COMPLIANCE ZONING DIAGRAMS - SECTIONS

CIRCULATION PLAN DIAGRAM CONCEPT SKETCHES

CODE ANALYSIS - OPEN SPACE DIAGRAM

SITE STRATEGY DIAGRAMS

GROSS FLOOR AREA DIAGRAM FIRE ACCESS DIAGRAM

LIFE SAFETY/EXIT ACCESS CODE

DIAGRAMS

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TREE PROTECTION - COVER

TREE PROTECTION - ARBORIST REPORT TREE PROTECTION - ARBORIST REPORT

T-4 TREE PROTECTION - ARBORIST REPORT TREE PROTECTION - PLAN

TREE PROTECTION - PHOTOS

TOPOGRAPHIC SURVEY

C2.0 PRELIMINARY DEMOLITION PLAN

C3.0 PRELIMINARY SITE AND UTILITIES PLAN PRELIMINARY STORM WATER QUALITY

CONCEPTUAL LANDSCAPE PLAN

CONTROL PLAN

EXISTING LANDSCAPE PLAN SUPPLEMENTAL LANDSCAPE EXHIBITS

LIGHTING PLAN - LEVEL 1

LIGHTING PLAN - LEVEL 2

EXTERIOR LIGHTING CALCULATION

LIGHT FIXTURES

LIGHT FIXTURES

SITE PLAN

FLOOR PLAN - LEVEL 1

FLOOR PLAN - LEVEL 2

FLOOR PLAN - LEVEL 3-5 ROOF PLAN

WEST (NW) ELEVATION

EAST (SE) ELEVATION

SOUTH (SW) ELEVATION

NORTH (NE) ELEVATION BUILDING SECTIONS - NORTH-SOUTH 0

BUILDING SECTIONS - NORTH-SOUTH 02

BUILDING SECTIONS - EAST-WEST 01

BUILDING SECTIONS - EAST-WEST 02 SECTION AND TYPICAL DETAILS





ZONING SETBACKS 3

PROJECT DESCRIPTION

3001-3017 El Camino Real is the result of a lot line adjustment to combine existing lots 55, 56, and a portion of 72 (see G001 for reference). The proposed Lot 55 is 49,864 square feet bounded by El Camino Real to the southwest, Olive Avenue to the northwest, and Acacia Avenue to the southeast. The project proposes using the State Density Bonus to construct a five story building with 100% affordable multi-family housing.

LOT AREA	49,864 SF (1.14 AC)
LOT COVERAGE	36,674 SF
FLOOR AREA	136,945 SF
CONSTRUCTION TYPE	(4) LEVELS TYPE V, OVER (1) LEVEL TYPE I

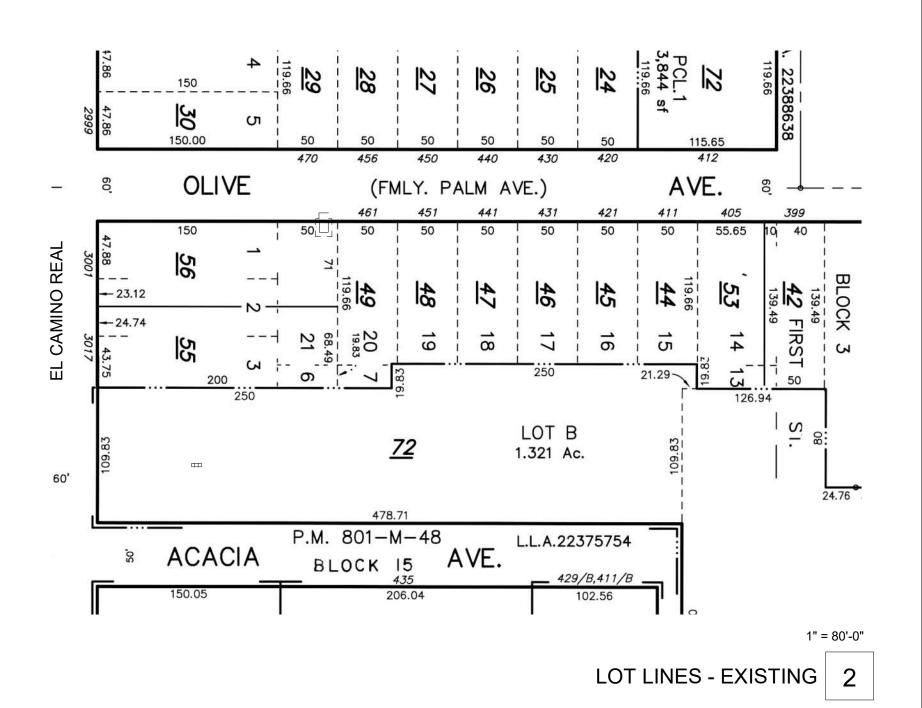
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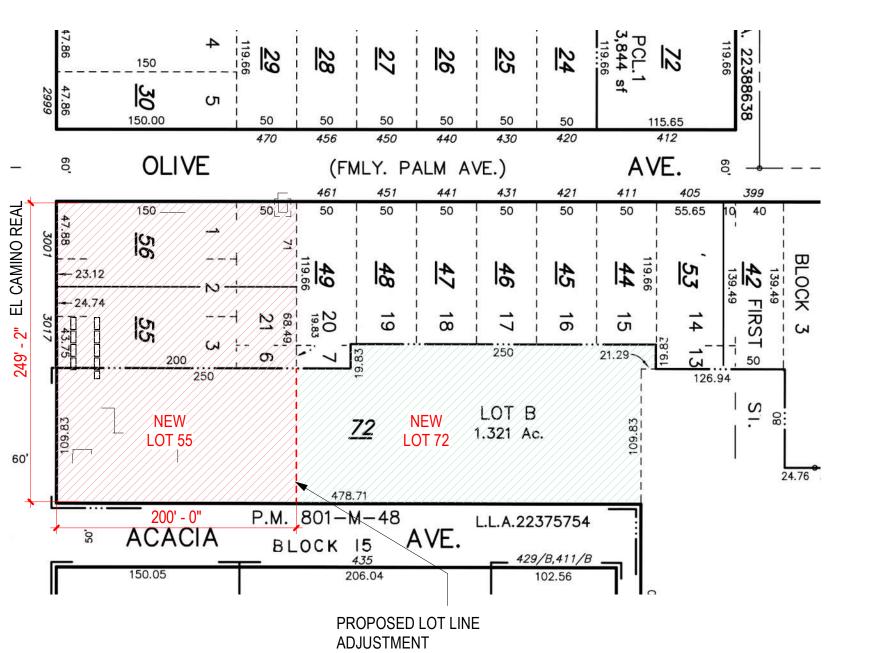
Palo Alto Municipal Code - Supp. No. 52 - 8/2021

RESIDENTIAL UNIT COUNT

UNIT TYPE	COUNT	PERCENT	SIZE	AREA
STUDIO 1 BEDROOM 2 BEDROOM 3 BEDROOM	31	16% 34% 25% 26%	14' x 24' 22' x 24' 33' x 24' 42' x 24'	336 SF 528 SF 792 SF 1008 SF
TOTAL	129			

PARKING COUNT		BICYCLE PARKING	
REQUIRED PARKING RATIO	.5	REQUIRED PARKING	129 LONG-TERM 13 SHORT-TERM
TYPE	COUNT	TYPE	COUNT
ADA (2 REG / 1 VAN) EVSE-INSTALLED PARKING LIFTS	5 (EVSE-READY) 1 97 (EVSE-READY)	LONG-TERM SHORT-TERM	138 14
TOTAL PARKING RATIO:	103 (EVSE-READY) .80	TOTAL	152





55 PROPOSES THE DEVELOPMENT OF 100% AFFORDABLE MULTI-FAMILY HOUSING USING THE STATE DENSITY BONUS.

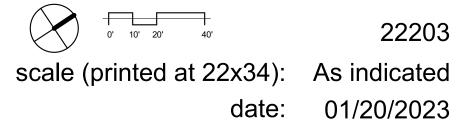
LOT LINES - PROPOSED



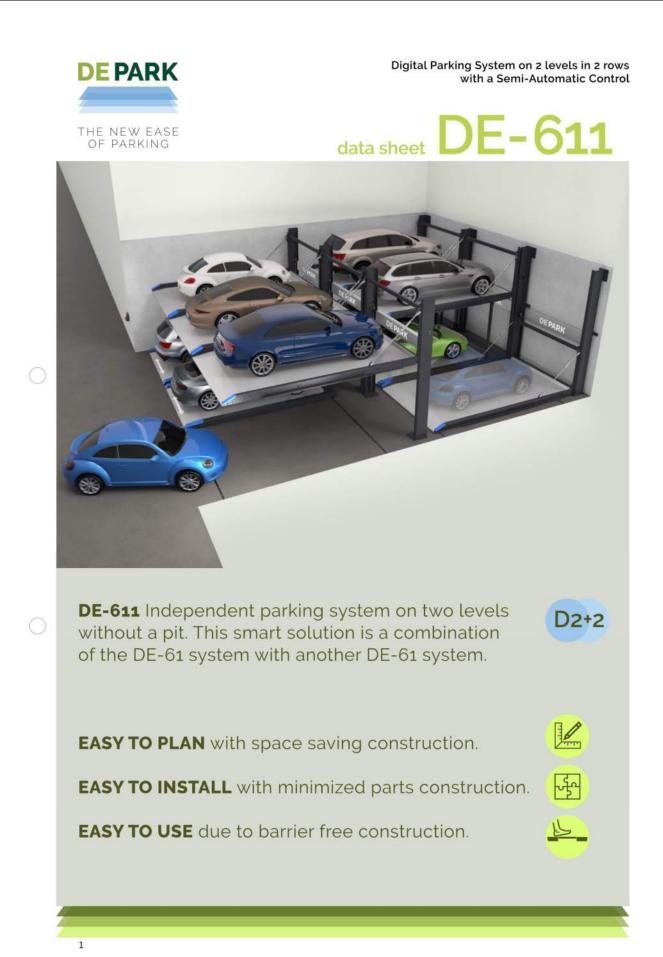


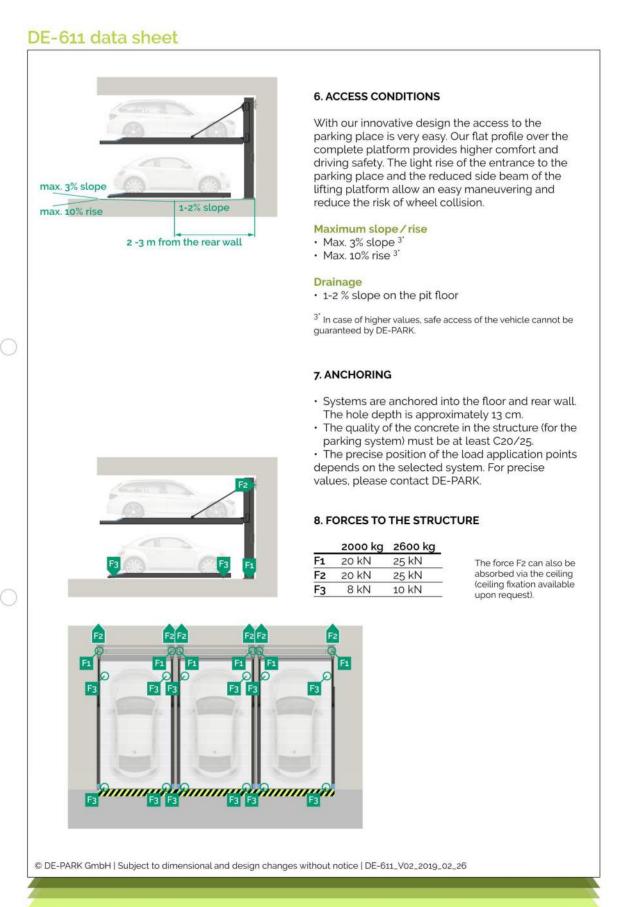


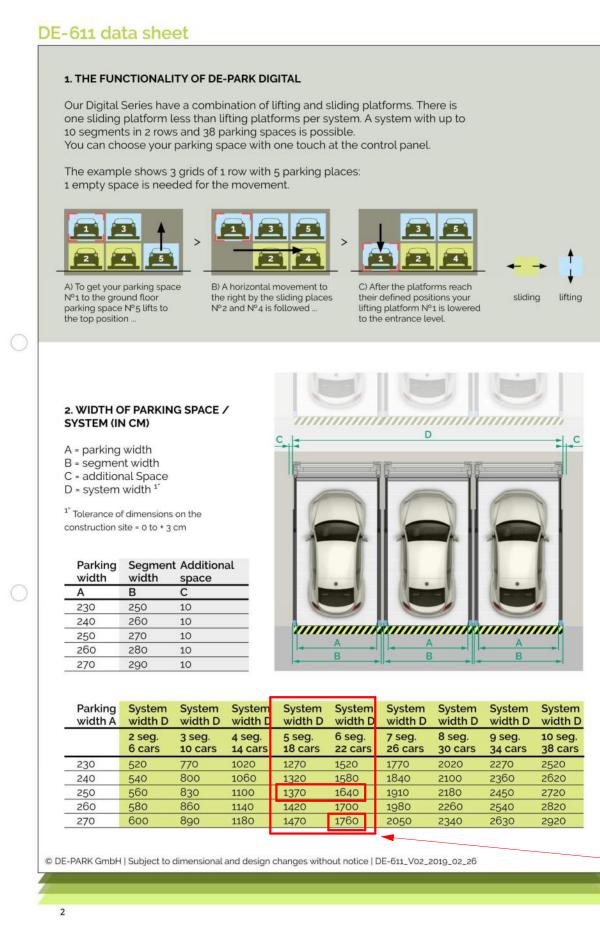


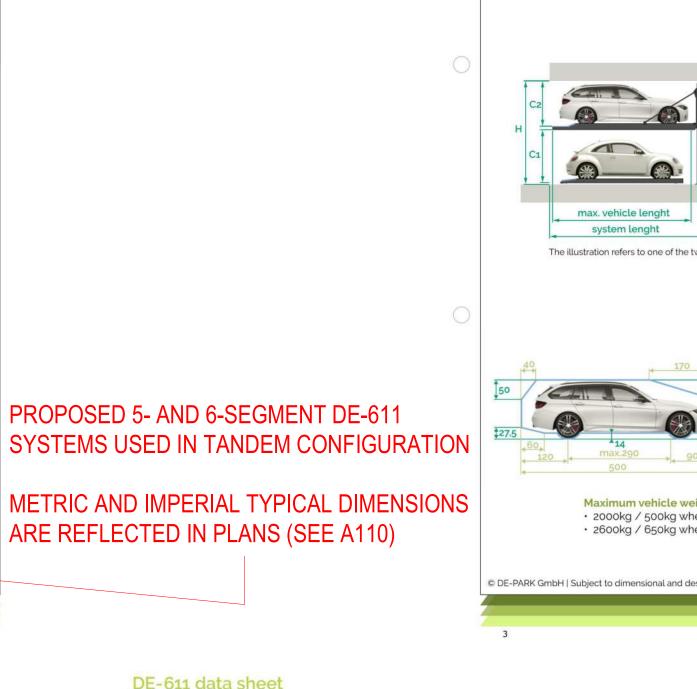


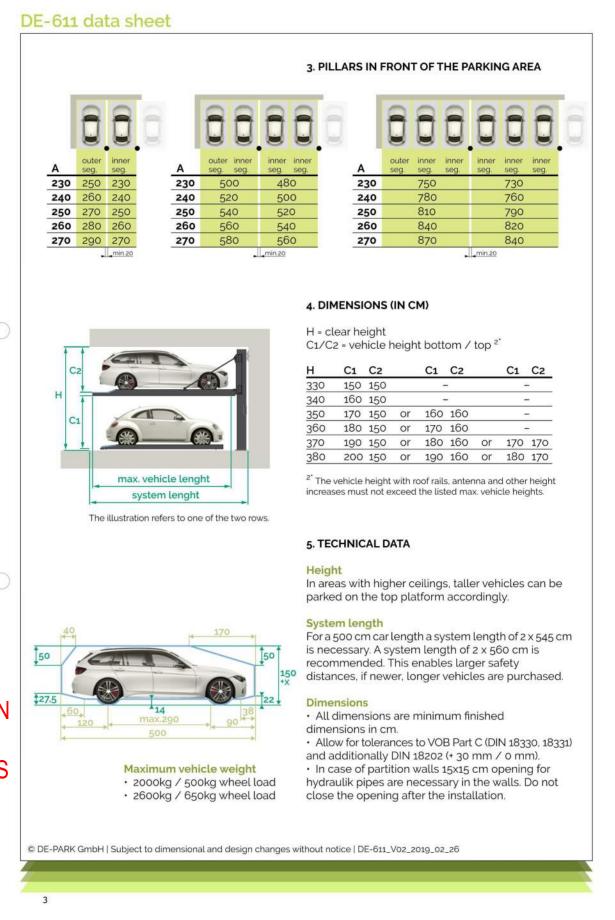
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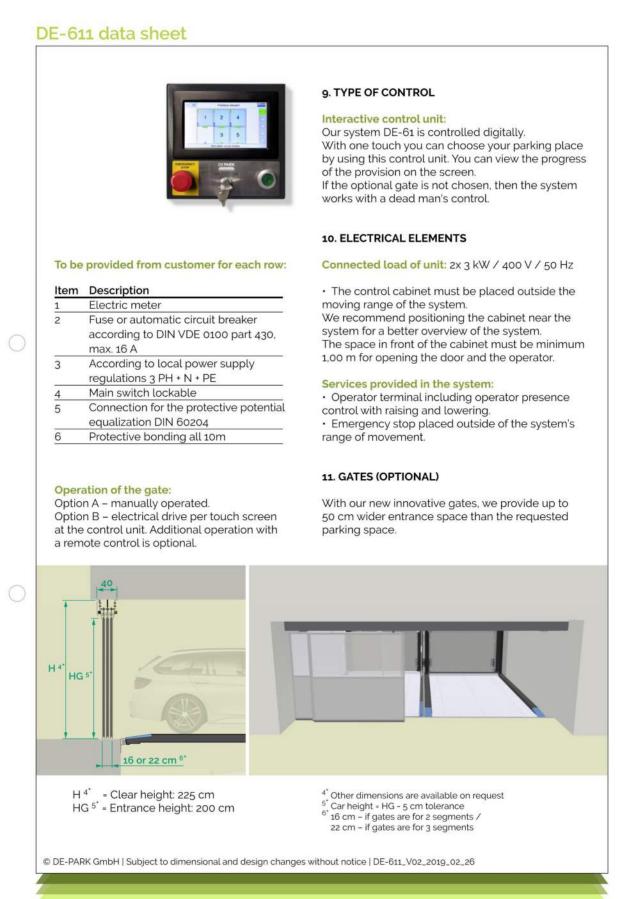


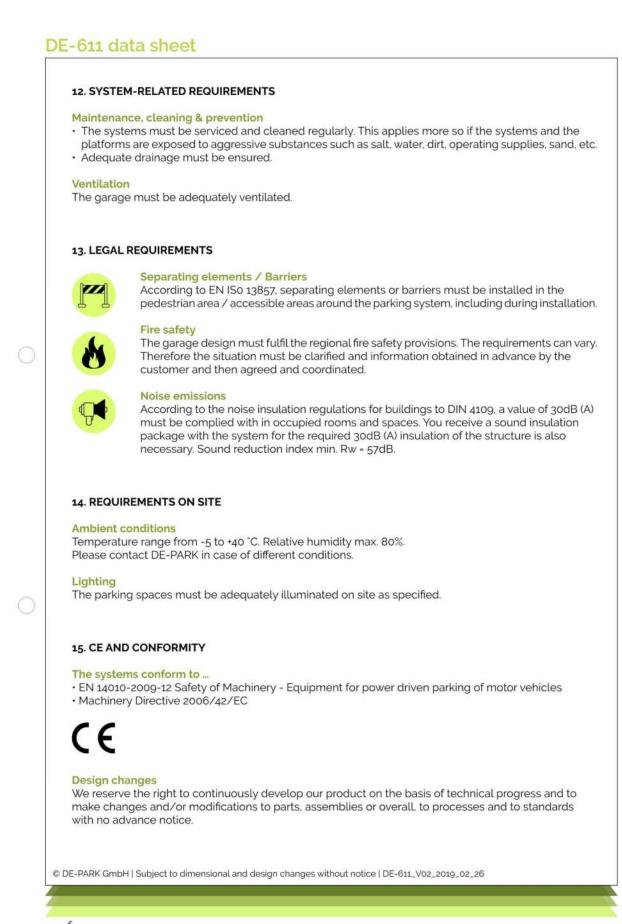


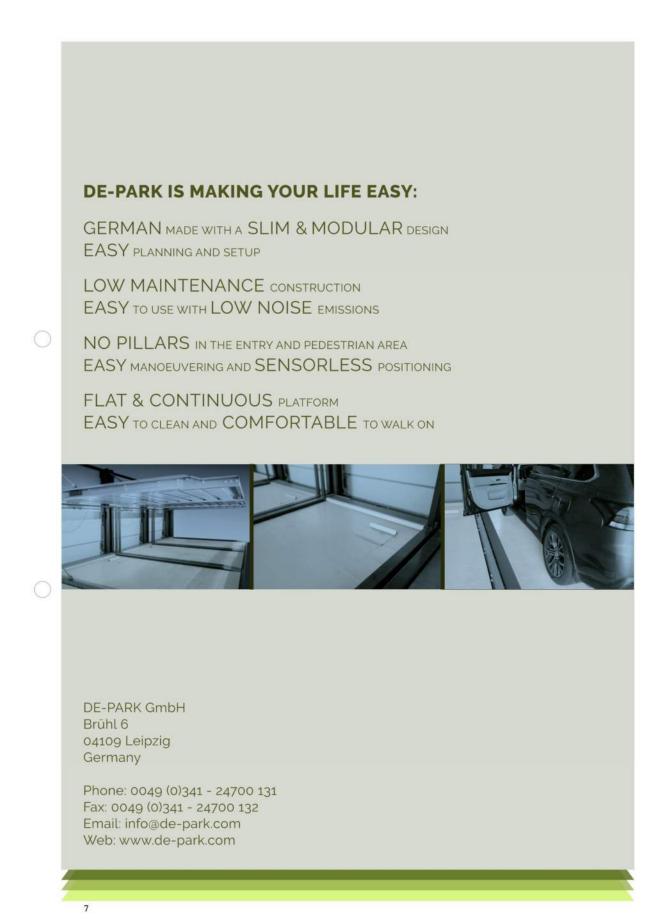






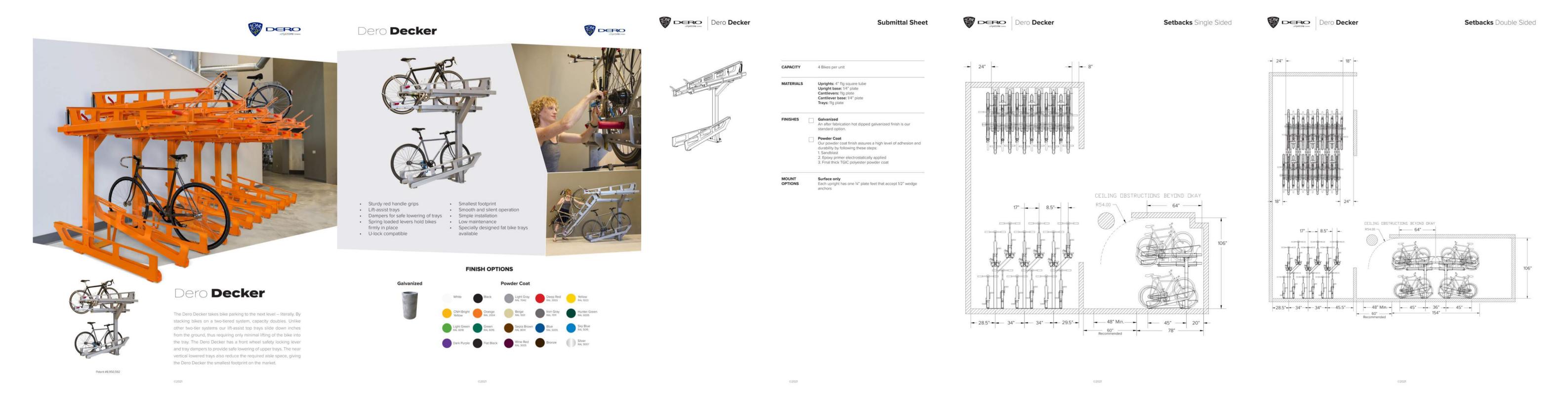


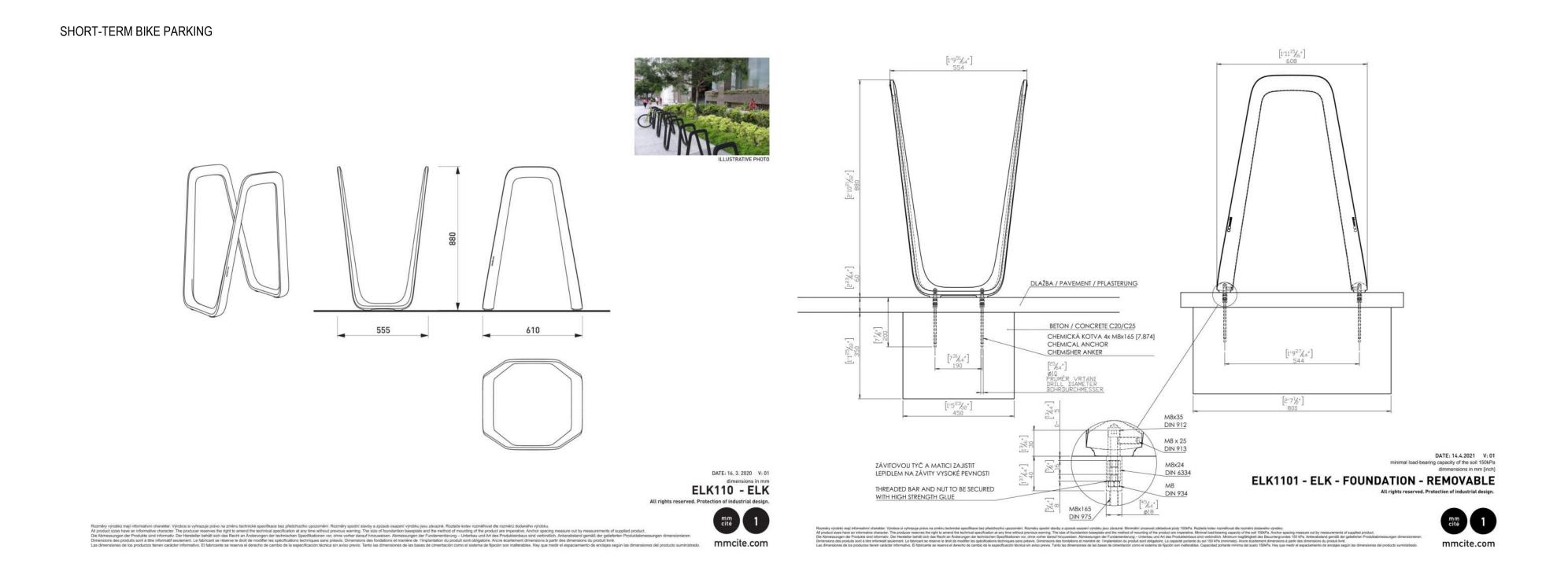


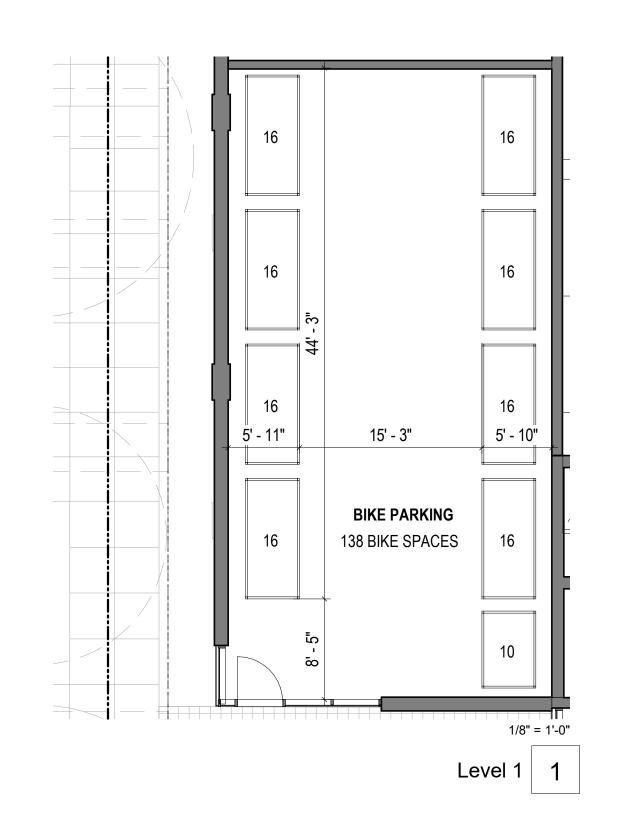










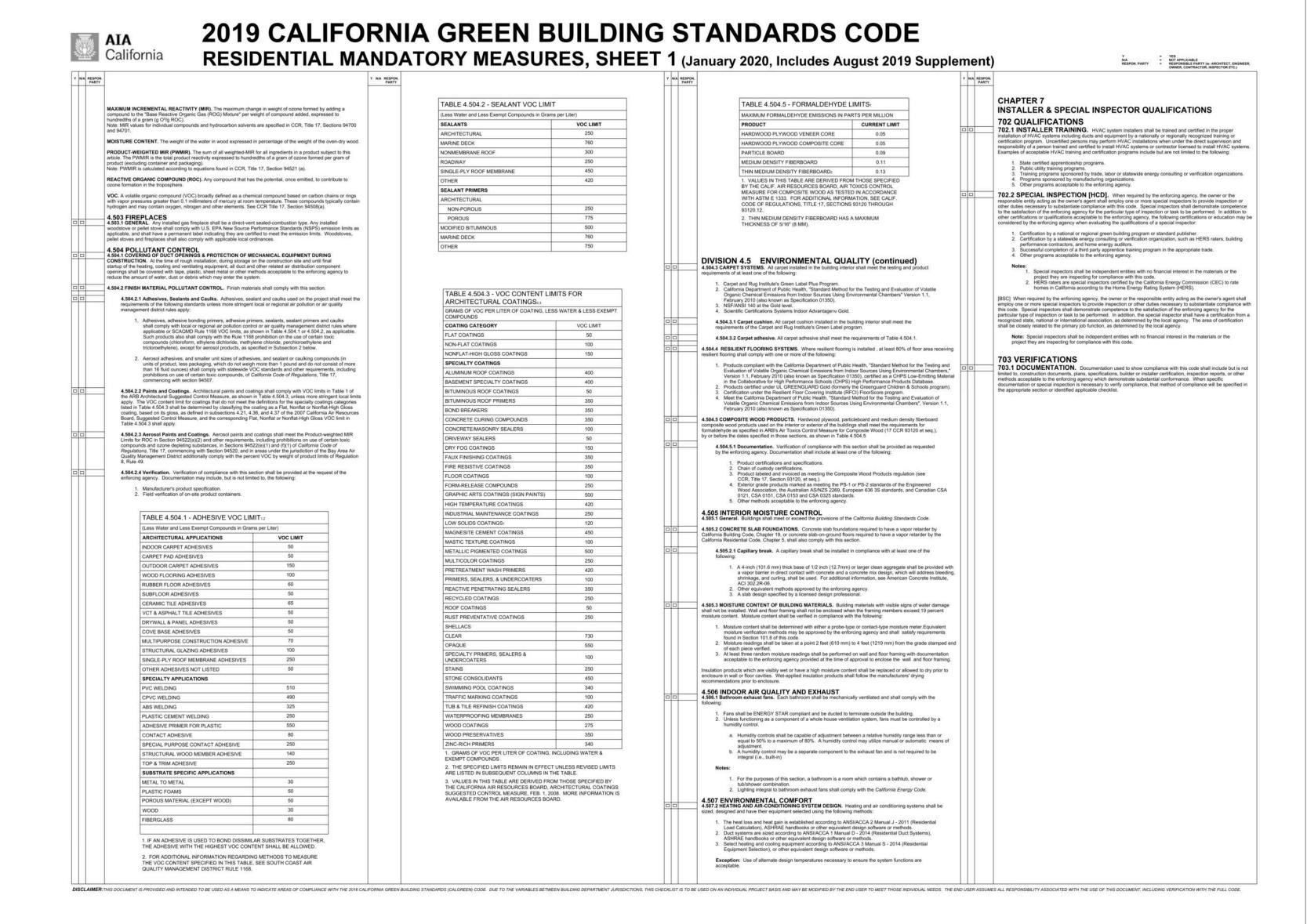






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GREEN BUILDING ECTION 301 GENERAL			DIVISION 4.4 MATERIAL CONSERVATION AND RESOU
01.1 SCOPE. Buildings shall be designed to include the green building measures specified as mandatory in the application checklists contained in this code. Voluntary green building measures are also included in the	4.106.4.2.1.1 Electric Vehicle Charging Stations (EVCS) When EV chargers are installed, EV spaces required by Section 4.106.2.2, Item 3, shall comply with at least one of the following options:	DIVISION 4.3 WATER EFFICIENCY AND CONSERVATION 4.303 INDOOR WATER USE	EFFICIENCY
application checklists and may be included in the design and construction of structures covered by this code, but are not required unless adopted by a city, county, or city and county as specified in Section 101.7. 301.1.1 Additions and alterations. [HCD] The mandatory provisions of Chapter 4 shall be applied to additions or alterations of existing residential buildings where the addition or alteration increases the	 The EV space shall be located adjacent to an accessible parking space meeting the requirements of the California Building Code, Chapter 11A, to allow use of the EV charger from the accessible parking space. The EV space shall be located on an accessible route, as defined in the California Building Code, Chapter 2, to the building. 	4.303.1 WATER CONSERVING PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the sections 4.303.1.1, 4.303.1.2, 4.303.1.3, and 4.303.4.4. Note: All noncompliant plumbing fixtures in any residential real property shall be replaced with water-conserving	4.406 ENHANCED DURABILITY AND REDUCED MAINTENANCE 4.406.1 RODENT PROOFING. Annular spaces around pipes, electric cables, conduits or other openin solehottom plates at exterior walls shall be protected against the passage of rodents by closing openings with cement mortar, concrete masonry or a similar method acceptable to the enforcing agency.
building's conditioned area, volume, or size. The requirements shall apply only to and/or within the specific area of the addition or alteration. Note: On and after January 1, 2014, residential buildings undergoing permitted alterations, additions, or improvements shall replace noncompliant plumbing fixtures with water-conserving plumbing fixtures.	Exception: Electric vehicle charging stations designed and constructed in compliance with the California Building Code, Chapter 11B, are not required to comply with Section 4.106.4.2.1.1 and Section 4.106.4.2.2, Item 3.	plumbing fixtures. Plumbing fixture replacement is required prior to issuance of a certificate of final completion, certificate of occupancy, or final permit approval by the local building department. See Civil Code Section 1101.1, et seq., for the definition of a noncompliant plumbing fixture, types of residential buildings affected and other important enactment dates.	4.408 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCL 4.408.1 CONSTRUCTION WASTE MANAGEMENT. Recycle and/or salvage for reuse a minimum of percent of the non-hazardous construction and demolition waste in accordance with either Section
Plumbing fixture replacement is required prior to issuance of a certificate of final completion, certificate of occupancy or final permit approval by the local building department. See Civil Code Section 1101.1, et see, for the definition of a noncompliant plumbing fixture, types of residential buildings affected and other important enactment dates.	Note: Electric Vehicle charging stations serving public housing are required to comply with the California Building Code, Chapter 11B. 4.106.4.2.2 Electric vehicle charging space (EV space) dimensions. The EV space shall be	4.303.1.1 Water Closets. The effective flush volume of all water closets shall not exceed 1.28 gallons per flush. Tank-type water closets shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Tank-type Tollets.	4.408.2, 4.408.3 or 4.408.4, or meet a more stringent local construction and demolition waste management ordinance. Exceptions:
D1.2 LOW-RISE AND HIGH-RISE RESIDENTIAL BUILDINGS. [HCD] The provisions of individual sections of CALGreen may apply to either low-rise residential buildings high-rise residential buildings or both. Individual sections will be designated by bangers to indicate where the section applies	designed to comply with the following: 1. The minimum length of each EV space shall be 18 feet (5486 mm). 2. The minimum width of each EV space shall be 9 feet (2743 mm). 3. One in every 25 EV spaces, but not less than one EV space, shall have an 8-foot (2438 mm).	Note: The effective flush volume of dual flush toilets is defined as the composite, average flush volume of two reduced flushes and one full flush. 4.303.1.2 Urinals. The effective flush volume of wall mounted urinals shall not exceed 0.125 gallons per flush.	Excavated soil and land-clearing debris. Alternate waste reduction methods developed by working with local agencies if diversion or recycle facilities capable of compliance with this item do not exist or are not located reasons close to the jobsite.
specifically to low-rise only (LR) or high-rise only (HR). When the section applies to both low-rise and high-rise buildings, no banner will be used.	wide minimum aisle. A 5-foot (1524 mm) wide minimum aisle shall be permitted provided the minimum width of the EV space is 12 feet (3658 mm). a. Surface slope for this EV space and the aisle shall not exceed 1 unit vertical in 48 units	The effective flush volume of all other urinals shall not exceed 0.5 gallons per flush. 4.303.1.3 Showerheads.	The enforcing agency may make exceptions to the requirements of this section when isolate jobsites are located in areas beyond the haul boundaries of the diversion facility. 4.408.2 CONSTRUCTION WASTE MANAGEMENT PLAN. Submit a construction waste management
ECTION 302 MIXED OCCUPANCY BUILDINGS 02.1 MIXED OCCUPANCY BUILDINGS. In mixed occupancy buildings, each portion of a building shall comply with the specific green building measures applicable to each specific occupancy.	horizontal (2.083 percent slope) in any direction. 4.106.4.2.3 Single EV space required. Install a listed raceway capable of accommodating a 208/240-	4.303.1.3.1 Single Showerhead. Showerheads shall have a maximum flow rate of not more than 1.8 gallons per minute at 80 psi. Showerheads shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Showerheads.	in conformance with Items 1 through 5. The construction waste management plan shall be upd necessary and shall be available during construction for examination by the enforcing agency. 1. Identify the construction and demolition waste materials to be diverted from disposal by recy
ABBREVIATION DEFINITIONS: ICD Department of Housing and Community Development	volt dedicated branch circuit. The raceway shall not be less than trade size 1 (nominal 1-inch inside diameter). The raceway shall originate at the main service or subpanel and shall terminate into a listed cabinet, box or enclosure in close proximity to the proposed location of the EV space. Construction documents shall identify the raceway termination point. The service panel and/or subpanel shall provide	4.303.1.3.2 Multiple showerheads serving one shower. When a shower is served by more than one showerhead, the combined flow rate of all the showerheads and/or other shower outlets controlled by a single valve shall not exceed 1.8 gallons per minute at 80 psi, or the shower shall be designed to only allow one shower outlet to be in operation at a time.	reuse on the project or salvage for future use or sale. 2. Specify if construction and demolition waste materials will be sorted on-site (source separa bulk mixed (single stream). 3. Identify diversion facilities where the construction and demolition waste material collected with these
ISC California Building Standards Commission SSA-SS Division of the State Architect, Structural Safety OSHPD Office of Statewide Health Planning and Development R Low Rise DI RH High Rise	capacity to install a 40-ampere minimum dedicated branch circuit and space(s) reserved to permit installation of a branch circuit overcurrent protective device. 4.106.4.2.4 Multiple EV spaces required. Construction documents shall indicate the raceway	Note: A hand-held shower shall be considered a showerhead. 4.303.1.4 Faucets.	Identify construction methods employed to reduce the amount of construction and demolitic generated. Specify that the amount of construction and demolition waste materials diverted shall be caby weight or volume, but not by both.
AA Additions and Alterations I New	termination point and proposed location of future EV spaces and EV chargers. Construction documents shall also provide information on amperage of future EVSE, raceway method(s), wiring schematics and electrical load calculations to verify that the electrical panel service capacity and electrical system, including any on-site distribution transformer(s), have sufficient capacity to simultaneously charge all EVs	4.303.1.4.1 Residential Lavatory Faucets. The maximum flow rate of residential lavatory faucets shall not exceed 1.2 gallons per minute at 60 psi. The minimum flow rate of residential lavatory faucets shall not be less than 0.8 gallons per minute at 20 psi.	4.408.3 WASTE MANAGEMENT COMPANY. Utilize a waste management company, approved by enforcing agency, which can provide verifiable documentation that the percentage of construct demolition waste material diverted from the landfill complies with Section 4.408.1.
CHAPTER 4 RESIDENTIAL MANDATORY MEASURES	at all required EV spaces at the full rated amperage of the EVSE. Plan design shall be based upon a 40-ampere minimum branch circuit. Required raceways and related components that are planned to be installed underground, enclosed, inaccessible or in concealed areas and spaces shall be installed at the time of original construction.	4.303.1.4.2 Lavatory Faucets in Common and Public Use Areas. The maximum flow rate of lavatory faucets installed in common and public use areas (outside of dwellings or sleeping units) in residential buildings shall not exceed 0.5 gallons per minute at 60 psi.	Note: The owner or contractor may make the determination if the construction and demolition materials will be diverted by a waste management company.
DIVISION 4.1 PLANNING AND DESIGN ECTION 4.102 DEFINITIONS 102.1 DEFINITIONS	4.106.4.2.5 Identification. The service panel or subpanel circuit directory shall identify the overcurrent protective device space(s) reserved for future EV charging purposes as "EV CAPABLE" in accordance with the California Electrical Code.	4.303.1.4.3 Metering Faucets. Metering faucets when installed in residential buildings shall not deliver more than 0.2 gallons per cycle. 4.303.1.4.4 Kitchen Faucets. The maximum flow rate of kitchen faucets shall not exceed 1.8 gallons per minute at 60 psi. Kitchen faucets may temporarily increase the flow above the maximum rate, but not	4.408.4 WASTE STREAM REDUCTION ALTERNATIVE [LR]. Projects that generate a total combine weight of construction and demolition waste disposed of in landfills, which do not exceed 3.4 lbs./sq.ft. of the building area shall meet the minimum 65% construction waste reduction requires Section 4.408.1
RENCH DRAIN. A trench, hole or other depressed area loosely filled with rock, gravel, fragments of brick or similar rivious material used to collect or channel drainage or runoff water.	4.106.4.3 New hotels and motels. All newly constructed hotels and motels shall provide EV spaces capable of supporting future installation of EVSE. The construction documents shall identify the location of the EV spaces.	to exceed 2.2 gallons per minute at 60 psi, and must default to a maximum flow rate of 1.8 gallons per minute at 60 psi. Note: Where complying faucets are unavailable, aerators or other means may be used to achieve	4.408.4.1 WASTE STREAM REDUCTION ALTERNATIVE. Projects that generate a total cor weight of construction and demolition waste disposed of in landfills, which do not exceed 2 por per square foot of the building area, shall meet the minimum 65% construction waste reduction requirement in Section 4.408.1
ATTLES. Wattles are used to reduce sediment in runoff. Wattles are often constructed of natural plant materials sch as hay, straw or similar material shaped in the form of tubes and placed on a downflow slope. Wattles are also led for perimeter and inlet controls.	Notes: Construction documents are intended to demonstrate the project's capability and capacity or facilitating future EV charging.	reduction. 4.303.2 STANDARDS FOR PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures and fittings shall be installed in accordance with the California Plumbing Code, and shall meet the applicable standards referenced in Table 1701.1 of the California Plumbing Code.	4.408.5 DOCUMENTATION. Documentation shall be provided to the enforcing agency which demor compliance with Section 4.408.2, items 1 through 5, Section 4.408.3 or Section 4.408.4. Notes:
.106 SITE DEVELOPMENT 106.1 GENERAL. Preservation and use of available natural resources shall be accomplished through evaluation and careful planning to minimize negative effects on the site and adjacent areas. Preservation of slopes, management of storm water drainage and erosion controls shall comply with this section.	 There is no requirement for EV spaces to be constructed or available until EV chargers are installed for use. 4.106.4.3.1 Number of required EV spaces. The number of required EV spaces shall be based 	NOTE: THIS TABLE COMPILES THE DATA IN SECTION 4.303.1, AND	Sample forms found in "A Guide to the California Green Building Standards Code (Residential)" located at www.hcd.ca.gov/CALGreen.html may be used to assist in documenting compliance with this section.
106.2 STORM WATER DRAINAGE AND RETENTION DURING CONSTRUCTION. Projects which disturb less than one acre of soil and are not part of a larger common plan of development which in total disturbs one acre or more, shall manage storm water drainage during construction. In order to manage storm water drainage	on the total number of parking spaces provided for all types of parking facilities in accordance with Table 4.106.4.3.1. Calculations for the required number of EV spaces shall be rounded up to the nearest whole number.	IS INCLUDED AS A CONVENIENCE FOR THE USER. TABLE - MAXIMUM FIXTURE WATER USE	Mixed construction and demolition debris (C & D) processors can be located at the C Department of Resources Recycling and Recovery (CalRecycle). 4.410 BUILDING MAINTENANCE AND OPERATION
during construction, one or more of the following measures shall be implemented to prevent flooding of adjacent property, prevent erosion and retain soil runoff on the site. 1. Retention basins of sufficient size shall be utilized to retain storm water on the site.	TABLE 4.106.4.3.1 TOTAL NUMBER OF PARKING NUMBER OF REQUIRED EV SPACES	FIXTURE TYPE FLOW RATE SHOWER HEADS (RESIDENTIAL) 1.8 GMP @ 80 PSI	4.410.1 OPERATION AND MAINTENANCE MANUAL. At the time of final inspection, a manual, cor disc, web-based reference or other media acceptable to the enforcing agency which includes a following shall be placed in the building:
Where storm water is conveyed to a public drainage system, collection point, gutter or similar disposal method, water shall be filtered by use of a barrier system, wattle or other method approved by the enforcing agency. Compliance with a lawfully enacted storm water management ordinance.	0-9 0	LAVATORY FAUCETS MAX. 1.2 GPM @ 60 PSI (RESIDENTIAL) MIN. 0.8 GPM @ 20 PSI	Directions to the owner or occupant that the manual shall remain with the building throughc life cycle of the structure. Operation and maintenance instructions for the following: a. Equipment and appliances, including water-saving devices and systems, HVAC syst photovoltic systems, electric vehicle chargers, water-heating systems and other ma
Note: Refer to the State Water Resources Control Board for projects which disturb one acre or more of soil, or are part of a larger common plan of development which in total disturbs one acre or more of soil. (Website: https://www.waterboards.ca.gov/water_issues/programs/stormwater/construction.html)	10-25 1 26-50 2	COMMON & PUBLIC USE AREAS KITCHEN FAUCETS METERING FAUCETS 0.5 GPM @ 60 PSI METERING FAUCETS 0.2 GAL/CYCLE	appliances and equipment. b. Roof and yard drainage, including gutters and downspouts. c. Space conditioning systems, including condensers and air filters. d. Landscape frigation systems.
106.3 GRADING AND PAVING. Construction plans shall indicate how the site grading or drainage system will manage all surface water flows to keep water from entering buildings. Examples of methods to manage surface water include, but are not limited to, the following:	51-75 4 76-100 5 101-150 7	WATER CLOSET 1.28 GAL/FLUSH URINALS 0.125 GAL/FLUSH	e. Water reuse systems. Information from local utility, water and waste recovery providers on methods to further recresource consumption, including recycle programs and locations. Public transportation and/or carpool options available in the area. Educational material on the positive impacts of an interior relative humidity between 30-60
Swales Water collection and disposal systems French drains Water retention gardens	151-200 10 201 and over 6 percent of total	4.304 OUTDOOR WATER USE	and what methods an occupant may use to maintain the arm elative humidity level in that rang 6. Information about water-conserving landscape and irrigation design and controllers which water. 7. Instructions for maintaining gutters and downspouts and the importance of diverting water
Other water measures which keep surface water away from buildings and aid in groundwater recharge. Exception: Additions and alterations not altering the drainage path.	4.106.4.3.2 Electric vehicle charging space (EV space) dimensions. The EV spaces shall be designed to comply with the following:	4,394.1 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS. Residential developments shall comply with a local water efficient landscape ordinance or the current California Department of Water Resources' Model Water Efficient Landscape Ordinance (MWELO), whichever is more stringent. NOTES:	feet away from the foundation. 8. Information on required routine maintenance measures, including, but not limited to, caulki painting, grading around the building, etc. 9. Information about state solar energy and incentive programs available.
106.4 Electric vehicle (EV) charging for new construction. New construction shall comply with Sections 4.106.4.1, 4.106.4.2, or 4.106.4.3 to facilitate future installation and use of EV chargers. Electric vehicle supply equipment (EVSE) shall be installed in accordance with the California Electrical Code, Article 625.	The minimum length of each EV space shall be 18 feet (5486mm). The minimum width of each EV space shall be 9 feet (2743mm) 4.106.4.3.3 Single EV space required. When a single EV space is required, the EV space shall be designed in accordance with Section 4.106.4.2.3.	The Model Water Efficient Landscape Ordinance (MWELO) is located in the California Code Regulations, Title 23, Chapter 2.7, Division 2. MWELO and supporting documents, including water budget calculator, are available at: https://www.water.ca.gov/	10. A copy of all special inspections verifications required by the enforcing agency or this code 4.410.2 RECYCLING BY OCCUPANTS. Where 5 or more multifamily dwelling units are constructed building site, provide readily accessible area(s) that serves all buildings on the site and are identified depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum)
1. On a case-by-case basis, where the local enforcing agency has determined EV charging and infrastructure are not feasible based upon one or more of the following conditions: 1.1 Where there is no commercial power supply.	4.106.4.3.4 Multiple EV spaces required. When multiple EV spaces are required, the EV spaces shall be designed in accordance with Section 4.106.4.2.4.		corrugated cardboard, glass, plastics, organic waster, and metals, or meet a lawfully enacted local re ordinance, if more restrictive. Exception: Rurai jurisdictions that meet and apply for the exemption in Public Resources Cod
1.2 Where there is evidence substantiating that meeting the requirements will alter the local utility infrastructure design requirements on the utility side of the meter so a increase the utility side cost to the homeowner or the developer by more than \$400.00 per dwelling unit. 2. Accessory Dwelling Units (ADU) and Junior Accessory Dwelling Units (JADU) without additional	4.106.4.3.5 Identification. The service panels or sub-panels shall be identified in accordance with Section 4.106.4.2.5. 4.106.4.3.6 Accessible EV spaces. In addition to the requirements in Section 4.106.4.3, EV spaces for hotels/motels and all EVSE, when installed, shall comply with the accessibility provisions for the EV charging		42649.82 (a)(2)(A) et seq. are note required to comply with the organic waste por this section.
parking facilities. 4.106.4.1 New one- and two-family dwellings and townhouses with attached private garages. For each dwelling unit, install a listed raceway to accommodate a dedicated 208/240-volt branch circuit. The raceway	stations in the California Building Code, Chapter 11B.		DIVISION 4.5 ENVIRONMENTAL QUALITY
shall not be less than trade size 1 (nominal 1-inch inside diameter). The raceway shall originate at the main service or subpanel and shall terminate into a listed cabinet, box or other enclosure in close proximity to the proposed location of an EV charger. Raceways are required to be continuous at enclosed, inaccessible or concealed areas and spaces. The service panel and/or subpanel shall provide capacity to install a 40-ampere minimum dedicated branch circuit and space(s) reserved to permit installation of a branch circuit overcurrent	DIVISION 4.2 ENERGY EFFICIENCY 4.201 GENERAL 4.201.1 SCOPE. For the purposes of mandatory energy efficiency standards in this code, the California Energy Commission will continue to adopt mandatory standards.		SECTION 4.501 GENERAL 4.501.1 Scope The provisions of this chapter shall outline means of reducing the quality of air contaminants that are irritating and/or harmful to the comfort and well being of a building's installers, occupants and neighbor SECTION 4.502 DEFINITIONS
protective device. 4.106.4.1.1 Identification. The service panel or subpanel circuit directory shall identify the overcurrent protective device space(s) reserved for future EV charging as "EV CAPABLE". The raceway termination location shall be permanently and visibly market as "EV CAPABLE".			5.102.1 DEFINITIONS The following terms are defined in Chapter 2 (and are included here for reference) AGRIFIBER PRODUCTS. Agrifiber products include wheatboard, strawboard, panel substrates and
4.106.4.2 New multifamily dwellings, if residential parking is available, ten (10) percent of the total number of parking spaces on a building site, provided for all types of parking facilities, shall be electric vehicle charging spaces (EV spaces) capable of supporting future EVSE. Calculations for the required number of EV spaces shall be rounded up to the nearest whole number.			cores, not including furniture, flutures and equipment (FF&E) not considered base building elements. COMPOSITE WOOD PRODUCTS. Composite wood products include hardwood plywood, particlebo medium density fiberboard. "Composite wood products" does not include hardboard, structural plywo structural panets, structural composite lumber, oriented strand board, glued laminated timber, prefabb wood I-joisto or finger-jointed lumber, all as specified in California Code of regulations (CCR), title 17
Notes: 1. Construction documents are intended to demonstrate the project's capability and capacity for facilitating future EV charging. 2. There is no requirement for EV spaces to be constructed or available until EV chargers are installed			wood i-joists or iniger-jointed lumber, all as specified in California Code or regulations (CCR), title 17, 93120.1. DIRECT-VENT APPLIANCE. A fuel-burning appliance with a sealed combustion system that draws a combustion from the outside atmosphere and discharges all flue gases to the outside atmosphere.
for use.	E III		I III I







ZONING SUMMARY

If the project provides 80% or more units to lower income households and up to 20% of units to moderate-income households, be developered not incomelved an expension of 35 feet sections of 35 feet sections of 35 feet sections of 35 feet sections of 35 feet standard, or 35 feet within 50 mile of a major transit stop, unlimited developer four incomblee or concessions. In addition, if the development is within 1½ mile of a major transit stop, unlimited developer four incomblee or concessions. In addition, if the development standards. Prior Area Ratio mouted exceed 0.6:1 limit and is proposed at 2.7. Four Area Ratio would exceed 0.6:1 limit and is proposed at 2.7. Four Area Ratio would exceed 0.6:1 limit and is proposed at 2.7. Four Area Ratio would exceed 0.6:1 limit and is proposed at 2.7. Four Area Ratio would exceed 0.6:1 limit and is proposed at 2.7. Four Area Ratio would exceed 0.6:1 limit and is proposed at 2.7. Four Area Ratio would exceed 0.6:1 limit and is proposed at 2.7. Four Area Ratio would exceed 0.6:1 limit and is proposed at 2.7. Four Area Ratio would exceed 0.6:1 limit and is proposed at 2.7. Four Area Ratio would exceed 0.6:1 limit and is proposed at 2.7. Four Area Ratio would exceed 0.6:1 limit and is proposed at 2.7. Four Area Ratio would exceed 0.6:1 limit and is proposed at 2.7. Four Area Ratio would exceed 0.6:1 limit and is proposed at 2.7. Four Area Ratio would exceed 0.6:1 limit and is proposed at 2.7. Four Area Ratio would exceed 0.6:1 limit and is proposed at 2.7. Four Area Ratio would exceed 0.6:1 limit and is proposed at 2.7. Four Area Ratio would exceed 0.6:1 limit and is proposed at 2.7. Four Area Ratio would exceed 0.6:1 limit and is proposed at 2.7. Four Area Ratio would exceed 0.6:1 limit and is proposed at 2.7. Four Area Ratio would exceed 0.6:1 limit and is proposed at 2.7. Four Area Ratio would exceed 0.6:1 limit and is proposed at 2.7. Four Area Ratio would exceed 0.6:1 limit and is proposed at 2.7. Four Area Ratio would exceed 0.6:1 limit and is propo	ITEM	REQUIREMENT	PROPOSED	STATUS	SECTION
the development may increase its otherwise allowed height by three stories or 33 feet and the jurisdiction must grant the developer for increnitives or concessions. In addition, if the development is within ½ mile of a major framet stop, unfinited of ensight yeal allowed within the boulding envelopes. Foot Area Ratio (FAR) Foot Area Ratio would exceed 0.5:1 limit and is proceed at 2.5. Concession/ 15 feet allowed within the boulding envelopes. Foot (Olive): 0.10 ft to create 12 sidewalk Rear (Acacai): 10 ft for residential portion interior Side Yard if abunding residential district. 10 ft Street Side Yard 5 ft Study (15 ft St.050), 10 ft St.050 f	Zoning	CS - Service Commercial	Multiple-family Residential	Complying	PAMC § 18.16(d)
stakeds Front (Olivei): 0-10 ft to create 12 sidewalk Front (Olivei): 0	Density Bonus	the development may increase its otherwise allowed height by three stories or 33 feet and the jurisdiction must grant the developer four incentives or concessions. In addition, if the development is within ½ mile of a major transit stop, unlimited density is allowed within the building envelope.		Complying	Gov. Code § 65915(b)(1)(G)
Rear (Acada), 10 ft for residential portion inforf Side Yard if abutting residential district. 10 ft Size Side Yard: 5 ft activating Size Size Size Size Size Size Size Size	Floor Area Ratio (FAR)	Floor Area Ratio maximum of 0.6:1 from residential development standards.	Floor Area Ratio would exceed 0.6:1 limit and is proposed at 2.7:	Concession/	18.16.060(b), Gov. Code §
Sale Coverage Maximum site coverage 50% Complying with all permissible encroachments. Complying 60% Complying	Setbacks	Rear (Acacia): 10 ft for residential portion Interior Side Yard if abutting residential district: 10 ft		Concession/	PAMC § 18.16.060 Table 4
trocalements freplaces, and similar architectural features (excluding flat or continuous walls or enclosures of interior space) may extend up to 3' into the front and rear setbacks and up to 3' into interior side setbacks to 4' into the front and rear setbacks and up to 3' into interior side setbacks to 4' into the front and rear setbacks and up to 3' into interior side setbacks to 4' into the front and rear setbacks and up to 3' into interior side setbacks to 4' into the front and rear setbacks and up to 3' into interior side setbacks Aximum site coverage 50% Aximum site coverage 60% Aximum site cover	Build-to-Lines		Complying with build-to-line requirements.	Complying	PAMC § 18.16.060 Table 4
Maximum site coverage 50% Maximum site coverage Froject proposes 74% site coverage. Project proposes 74% site coverage. Project product of 23 minum site coverage 50% Maximum site coverage 50% Maximum site coverage 50% Maximum site coverage 50% Maximum site coverage. Project proposes 24% site coverage. Project product of 23 minum site coverage 50% Maximum site coverage 50% Maximum site coverage. Project proposes 24% Site coverage. On the coverage 50% Maximum site coverage. Project proposes 24% Site coverage. On the coverage 50% Maximum site coverage. Project proposes 24% Site coverage. On the coverage 50% Maximum site coverage 50% Maximum site coverage. Project only servations of 23 minum site coverage 50% Maximum site coverage 50% Maxim	Permitted Setback Encroachments	fireplaces, and similar architectural features (excluding flat or continuous walls or enclosures of interior space) may extend up	Complying with all permissible encroachments.	Complying	PAMC § 18.16.060 Table 4
30%. Complying PAMC § 18.16.060 Table 4 sable Open Space able Open Space 150 sf / unit 50 feet standard, or 35 feet within 50 feet of abutting residential district. Density bonus allows for 3 stories 33 feet increase to these heights, resulting in maximum height of 83 feet standard and 68 feet within 50 feet of residential district. 20 aylight Plane for lot lines 30 butting one or more residential ming districts 16 a development includes at least 20 percent low-income units for housing developments, is located within one-half mile of a major transit stop, and the residents of the development, then, upon the request of the development, inclusive of parking for persons with a disability and guests, that exceeds 0.5 spaces per bufform. Project proposes .82 parking ratio, exceeding .5 density bonus minimum. 30%. Complying PexMC § 18.16.060 Table 4 20%. Code § 65915(d)(2)(D) Poject does not encroach into 45-degree plane. Complying Posity Bonus Complying using Density Bonus. Project does not encroach into 45-degree plane. Complying Posity Bonus Project does not encroach into 45-degree plane. Complying Posity Bonus Complying Posity Bonus Project does not encroach into 45-degree plane. Complying Posity Bonus Complying Posity Bonus Project does not encroach into 45-degree plane. Complying Posity Bonus Complying Project proposes .82 parking ratio, exceeding .5 density bonus minimum.	Site Coverage	Maximum site coverage 50%		Concession/	Gov. Code § 65915(d)(1)
sable Open Space 150 sf / unit 150 sf / unit 150 sf / unit 150 set standard, or 35 feet within 50 feet of abutting residential district. Density bonus allows for 3 stories 33 feet increase to these heights, resulting in maximum height of 83 feet standard and 68 feet within 50 feet of residential district. 250 feet standard, or 35 feet within 50 feet of abutting residential district. Density bonus allows for 3 stories 33 feet increase to these heights, resulting in maximum height of 83 feet standard and 68 feet within 50 feet of residential district. 250 applight Plane for lot lines putting one or more residential and slope shall be identical to those of the most restrictive residential zoning district abutting the lot lines of 45 degree plane measure from 10 FT above rear and side lot lines for sites abutting R-1 250 applight Plane height and slope shall be identical to those of the most restrictive residential zoning district abutting the lot lines of 45 degree plane measure from 10 FT above rear and side lot lines for sites abutting R-1 250 applight Plane height and slope shall be identical to those of the most restrictive residential zoning district abutting the lot lines of a degree plane measure from 10 FT above rear and side lot lines for sites abutting R-1 250 applight Plane height and slope shall be identical to those of the most restrictive residential zoning district abutting the lot lines of a degree plane measure from 10 FT above rear and side lot lines for sites abutting R-1 250 applight Plane height and slope shall be identical to those of the most restrictive residential district. 250 applight Plane height and slope shall be identical to those of the most restrictive residential district. 250 applies the plane height and slope shall be identical to those of the most restrictive residential district. 250 applies the plane height and slope shall be identical to those of the most restrictive residential abutting the lot lines. 250 applies the plane height and slope shall be identical t	Landscape/Open Space	30%		Complying	PAMC § 18.16.060 Table 4
50 feet standard, or 35 feet within 50 feet of abutting residential district. Density bonus allows for 3 stories 33 feet increase to these heights, resulting in maximum height of 83 feet standard and 68 feet within 50 feet of residential district. Daylight Plane for lot lines putting one or more residential ming districts Daylight plane height and slope shall be identical to those of the most restrictive residential zoning district abutting the lot line. 45 degree plane measure from 10 FT above rear and side lot lines for sites abutting R-1 If a development includes at least 20 percent low-income units for housing developments, is located within one-half mile of a major transit stop, and the residents of the developer, a city, county, or city and county shall not impose a vehicular parking ratio, inclusive of parking for persons with a disability and guests, that exceeds 0.5 spaces per bedroom. Solve the feet within 50 feet of residential district. Daylight plane height and slope shall be identical to those of the most restrictive residential district. Daylight plane height and slope shall be identical to those of the most restrictive residential district. Daylight plane height and slope shall be identical to those of the most restrictive residential district. Daylight plane height and slope shall be identical to those of the most restrictive residential district. Daylight plane height and slope shall be identical to those of the most restrictive residential district. Daylight plane height and slope shall be identical to those of the most restrictive residential district. Daylight plane height and slope shall be identical to those of the most restrictive residential district. Daylight plane height and slope shall be identical to those of the most restrictive residential district. Daylight plane height and slope shall be identical to those of the most restrictive residential district. Daylight plane height and slope shall be identical to those of the most restrictive residential district. Daylight	Usable Open Space	150 sf / unit		Concession/	Gov. Code § 65915(d)(1)
45 degree plane measure from 10 FT above rear and side lot lines for sites abutting R-1 Project does not encroach into 45-degree plane. Complying PAMC § 18.16.060 Table 4 If a development includes at least 20 percent low-income units for housing developments, is located within one-half mile of a major transit stop, and the residents of the development have unobstructed access to the major transit stop from the development, then, upon the request of the development, inclusive of parking for persons with a disability and guests, that exceeds 0.5 spaces per unit. If a development includes at least 40 percent moderate-income units for housing developments, is located within one-half mile of a major transit stop, as defined in subdivision (b) of Section 21155 of the Public Resources Code, and the residents of the development have unobstructed access to the major transit stop from the development have unobstructed access to the major transit stop from the development have unobstructed access to the major transit stop from the development have unobstructed access to the major transit stop from the development have unobstructed access to the major transit stop from the development have unobstructed access to the major transit stop from the development have unobstructed access to the major transit stop from the development have unobstructed access to the major transit stop from the development have unobstructed access to the major transit stop from the development have unobstructed access to the major transit stop from the development have unobstructed access to the major transit stop from the development have unobstructed access to the major transit stop from the development have unobstructed access to the major transit stop from the development have unobstructed access to the major transit stop from the development have unobstructed access to the major transit stop from the development have unobstructed access to the major transit stop from the development have unobstructed access to the major transit stop from the	Building Height		(83'). Project only requesting 9' over current 50' height standard		Gov. Code § 65915(d)(2)(D)
major transit stop, and the residents of the development have unobstructed access to the major transit stop from the development, then, upon the request of the developer, a city, county, or city and county shall not impose a vehicular parking ratio, inclusive of parking for persons with a disability and guests, that exceeds 0.5 spaces per unit. If a development includes at least 40 percent moderate-income units for housing developments, is located within one-half mile of a major transit stop, as defined in subdivision (b) of Section 21155 of the Public Resources Code, and the residents of the development have unobstructed access to the major transit stop from the development have unobstructed access to the major transit stop from the development have unobstructed access to the major transit stop, as defined in subdivision (b) of Section 21155 of the Public Resources Code, and the residents of the development have unobstructed access to the major transit stop, as defined in subdivision (b) of Section 21155 of the Public Resources Code, and the residents of the development includes at least 40 percent moderate-income units for housing developments, is located within one-half mile of a major transit stop, as defined in subdivision (b) of Section 21155 of the Public Resources Code, and the residents of the development have unobstructed access to the major transit stop, as defined in subdivision (b) of Section 21155 of the Public Resources Code, and the residents of the development have unobstructed access to the major transit stop, as defined in subdivision (b) of Section 21155 of the Public Resources Code, and the residents of the development have unobstructed access to the major transit stop, as development includes at least 40 percent moderate-income units for housing development, inclusive of parking of a major transit stop, as development includes at least 40 percent moderate-income units for housing development, inclusive of parking of a major transit stop, as development includes at least 40 percent moderate	Daylight Plane for lot lines abutting one or more residential zoning districts		Project does not encroach into 45-degree plane.	Complying	PAMC § 18.16.060 Table 4
	Multi-family Parking	major transit stop, and the residents of the development have unobstructed access to the major transit stop from the development, then, upon the request of the developer, a city, county, or city and county shall not impose a vehicular parking ratio, inclusive of parking for persons with a disability and guests, that exceeds 0.5 spaces per unit. If a development includes at least 40 percent moderate-income units for housing developments, is located within one-half mile of a major transit stop, as defined in subdivision (b) of Section 21155 of the Public Resources Code, and the residents of the development have unobstructed access to the major transit stop from the development, then, upon the request of the developer, a city, county, or city and county shall not impose a vehicular parking ratio, inclusive of parking for persons with a disability and guests, that		under Density	Gov. Code § 65915(p)(2)(A)
	Bike Parking			Complying	PAMC § 18.52.040(c) Table 1

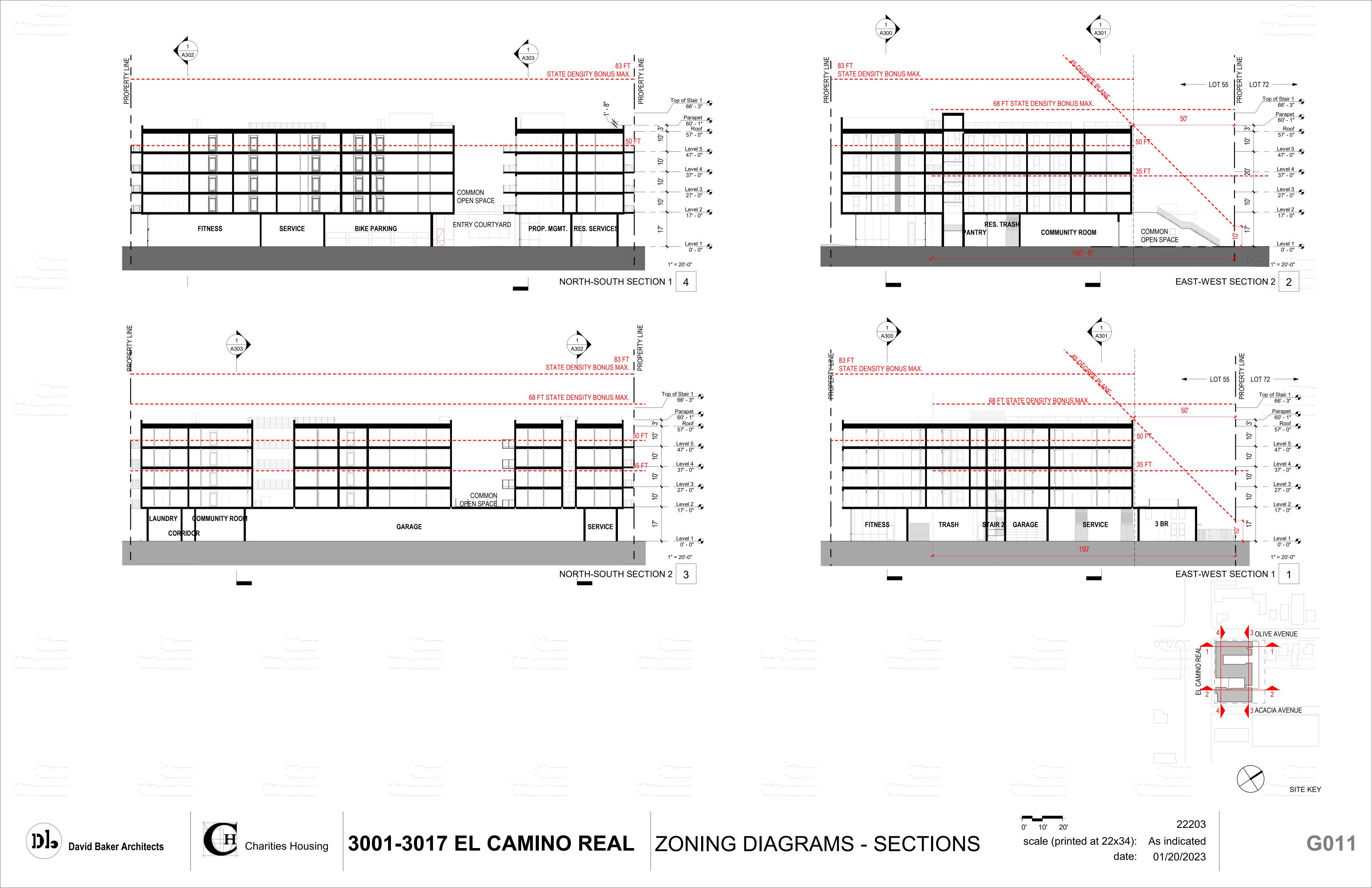


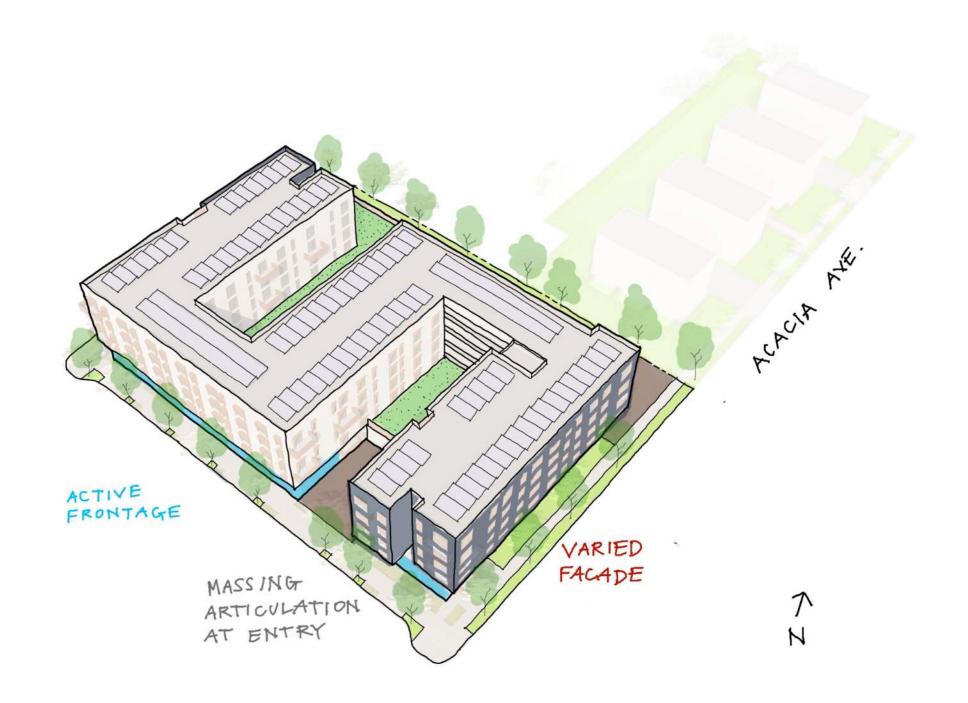


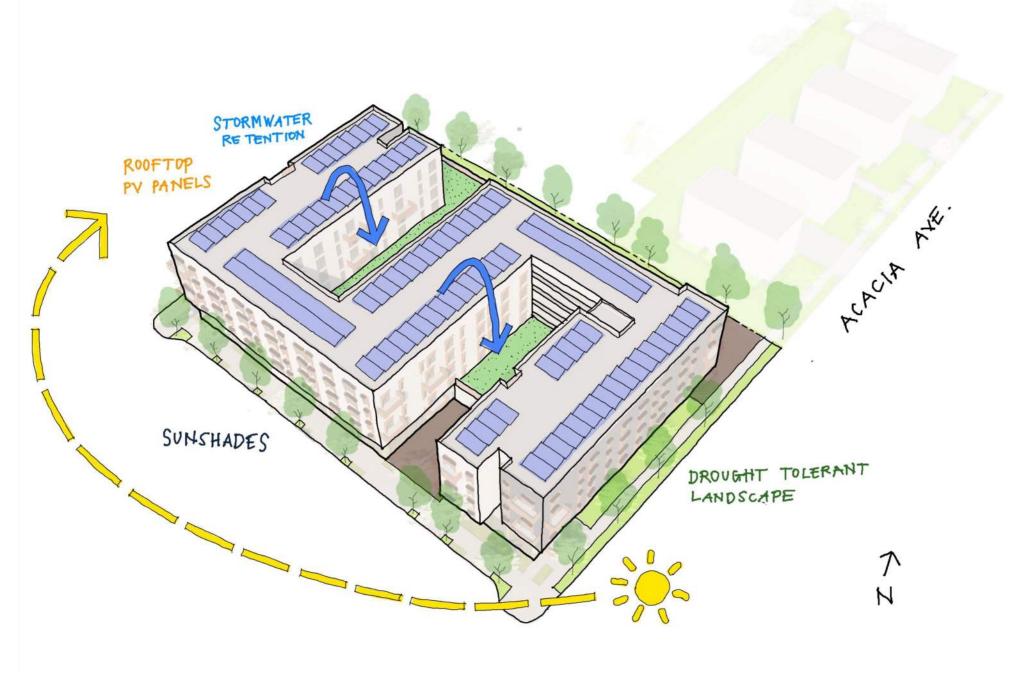
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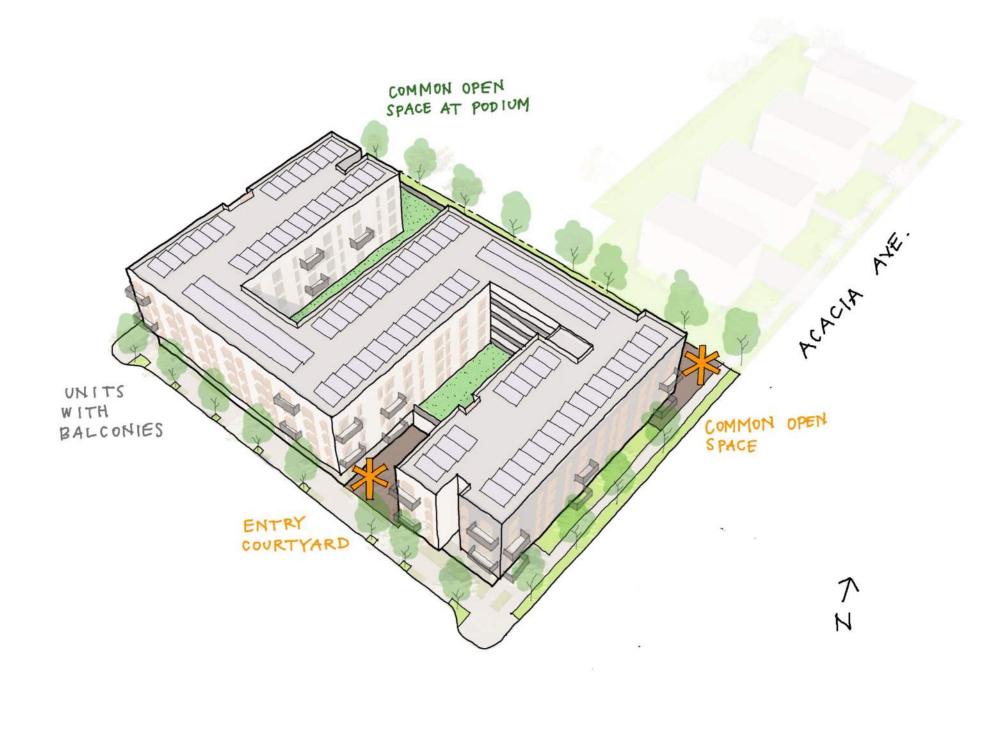
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MASSING AND PUBLIC INTERFACE

SUSTAINABILITY

OPEN SPACE

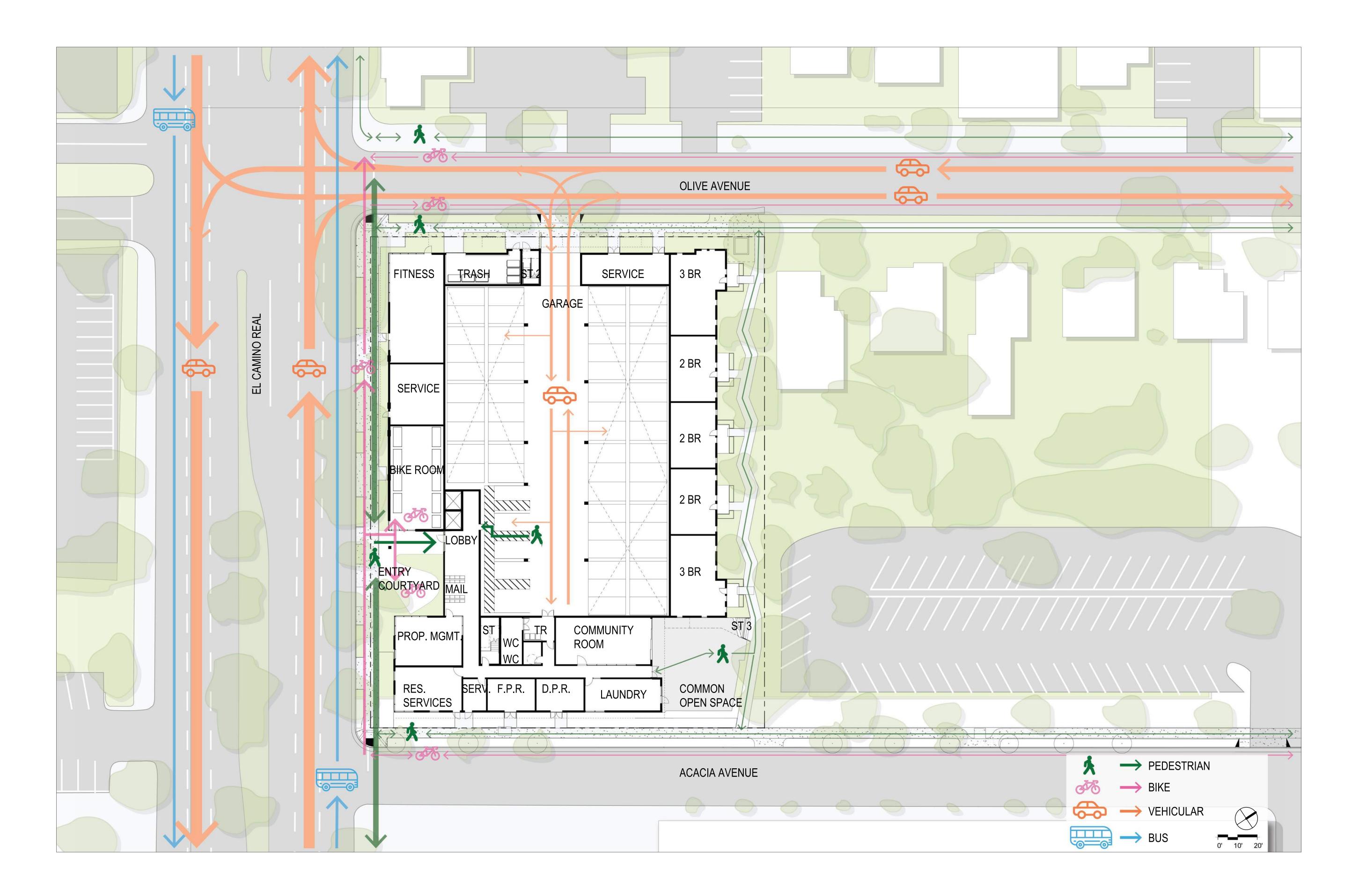




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22203



PEDESTRIAN MEWS - LOOKING EAST



NORTHWEST CORNER - GARAGE ENTRY AND PEDESTRIAN MEWS AT GROUND FLOOR UNITS



ENTRY COURTYARD AT EL CAMINO REAL

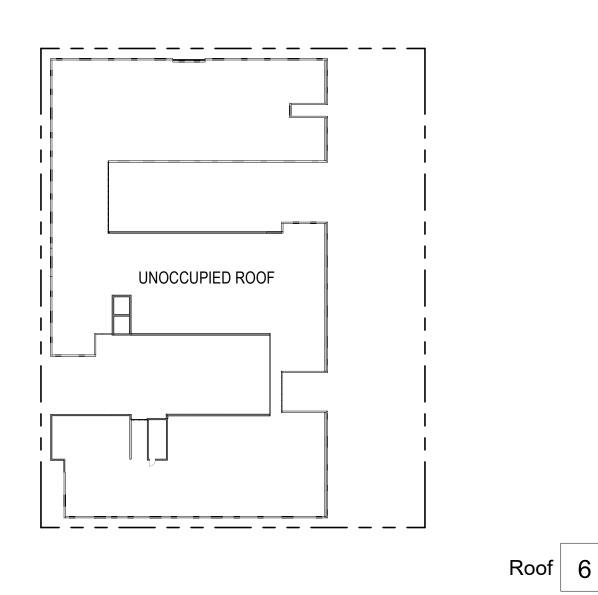


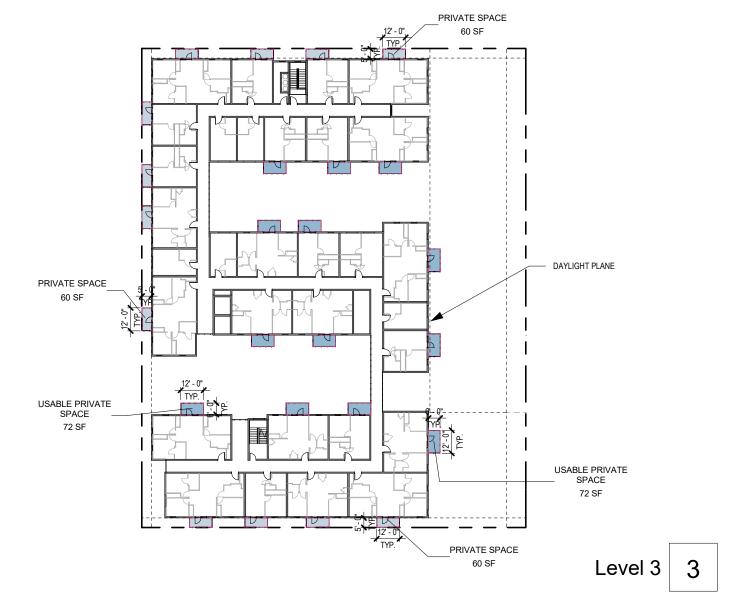
SOUTHEAST CORNER - BUILDING ENTRY AND EL CAMINO REAL FRONTAGE

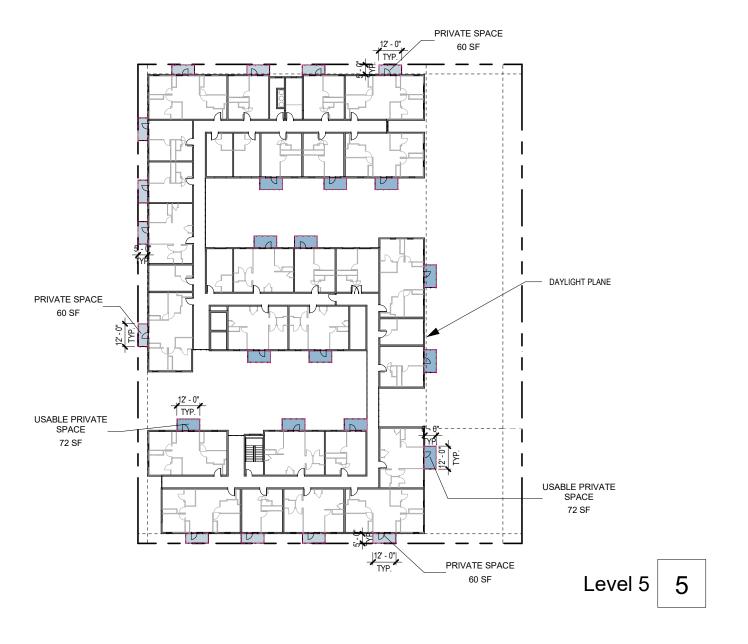


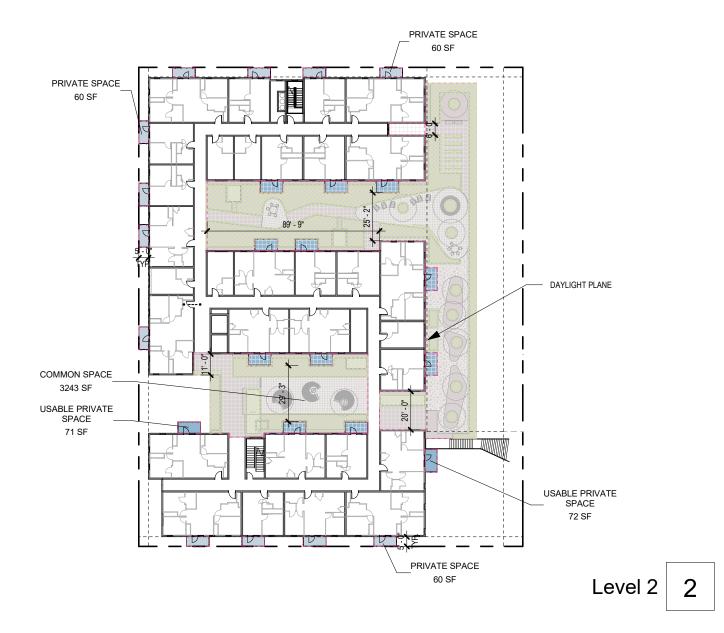


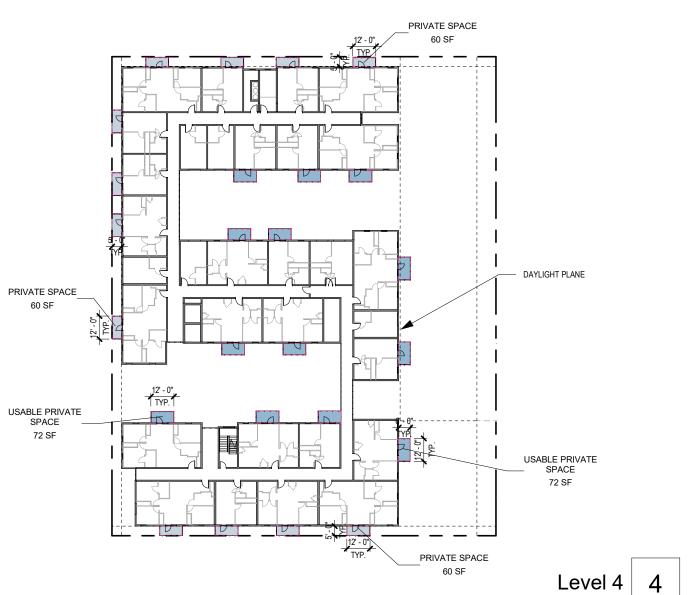
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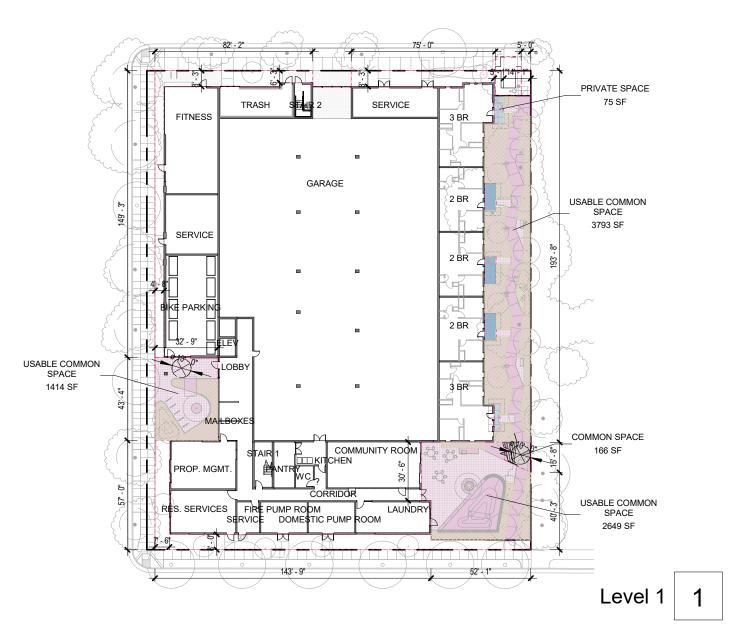












MINIMUM LANDSCAPE/OPEN SPACE COVERAGE

PER PALO ALTO MUNICIPAL CODE CHAPTER 18.16.060 DEVELOPMENT STANDARDS, TABLE 4, 30% MINIMUM LANDSCAPE/OPEN SPACE COVERAGE REQUIRED.

USABLE OPEN SPACE (PRIVATE AND/OR COMMON)

PER PALO ALTO MUNICIPAL CODE CHAPTER 18.16.060 DEVELOPMENT STANDARDS, TABLE 4, 150 SQ FT PER UNIT USABLE OPEN SPACE REQUIRED.

OCCUPANCY	GROSS FLOOR AREA	OCCUPANCY	GROSS FLOOR AREA
Level 1		Level 2	·
COMMON SPACE	166 SF	COMMON SPACE	12,149 SF
USABLE COMMON SPACE	7,856 SF		12,149 SF
	8,022 SF	30% OF 12,149 SF = 3,6	44 SF

30% OF 8,022 SF = 2,406 SF

LANDSCAPE 3,355 SF - COMPLIES

LANDSCAPE 5,707 SF - **COMPLIES**

REQUIRED USABLE OPEN SPACE:

(1) MAY BE ANY COMBINATION OF PRIVATE AND COMMON OPEN SPACES; (2) DOES NOT NEED TO BE LOCATED ON THE GROUND (BUT ROOFTOP GARDENS ARE NOT INCLUDED AS OPEN SPACE EXCEPT AS PROVIDED BELOW);

(3) MINIMUM PRIVATE OPEN SPACE DIMENSION SIX FEET; AND (4) MINIMUM COMMON OPEN SPACE DIMENSION TWELVE FEET.

PODIUM OPEN SPACE IS NOT CONSIDERED USABLE BECAUSE IT IS NOT ON LEVEL 3 OR ABOVE PER 18.40.230. 60% OF PODIUM OPEN SPACE AS ROOF GARDEN WOULD BE 6,222 SF

FOR CN AND CS SITES ON EL CAMINO REAL AND CC(2) SITES THAT DO NOT ABUT A SINGLE- OR TWO-FAMILY RESIDENTIAL USE OR ZONING DISTRICT, ROOFTOP GARDENS MAY QUALIFY AS USABLE OPEN SPACE AND MAY COUNT AS UP TO 60% OF THE REQUIRED USABLE OPEN SPACE FOR THE RESIDENTIAL COMPONENT OF A PROJECT. IN ORDER TO QUALIFY AS USABLE OPEN SPACE, THE ROOFTOP GARDEN SHALL MEET THE REQUIREMENTS SET FORTH IN SECTION 18.40.230.

18.40.230 ROOFTOP GARDENS

(B) THE ROOFTOP GARDEN SHALL BE LOCATED ON THE THIRD OR HIGHER STORY.

MINIMUM LANDSCAPE/OPEN SPACE COVERAGE

OCCUPANCY	GROSS FLOOR AREA
COMMON SPACE	12,316 SF
PRIVATE SPACE	3,003 SF
USABLE COMMON SPACE	7,856 SF
USABLE PRIVATE SPACE	4,018 SF
	27,193 SF

LOT AREA = 49,864 SF (1.14 AC)

30% of 49,864 = 14,959.2 PROJECT COMPLIES.

USABLE OPEN SPACE (PRIVATE AND/OR COMMON)

OCCUPANCY	GROSS FLOOR AREA
USABLE COMMON SPACE	7,856 SF
USABLE PRIVATE SPACE	4,018 SF
	11,874 SF

11,874/129 UNITS = 92 SF/UNIT PROVIDED

129 UNITS X 150 SF/UNIT = 19,350 SF USABLE OPEN SPACE REQUIRED PROJECT DOES NOT COMPLY.

OPEN SPACE DIAGRAM LEGEND

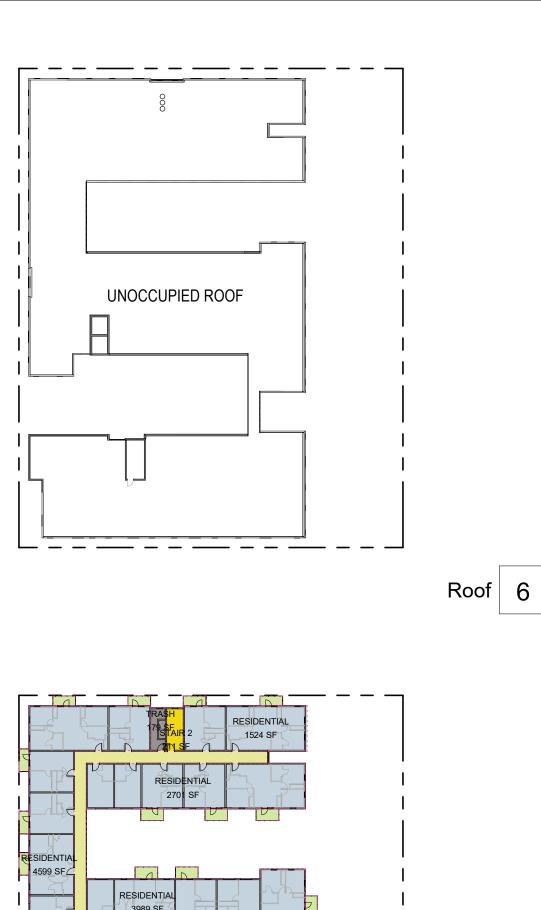


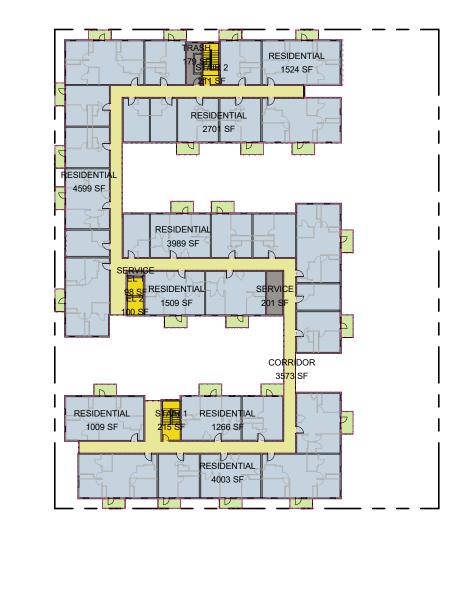
AREA BOUNDARY LINE

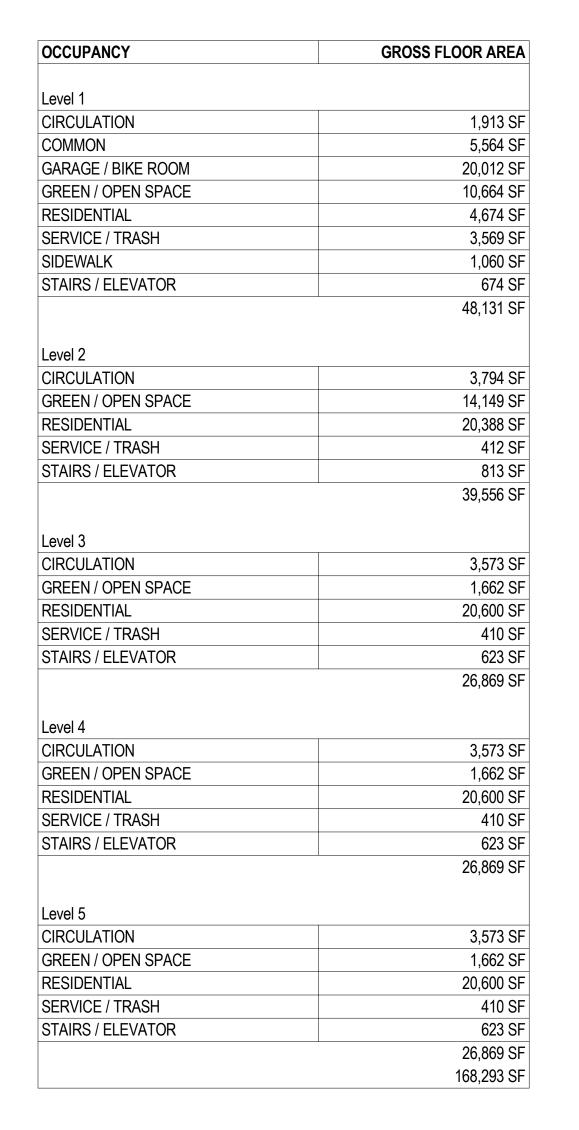
DOES NOT COMPLY WITH OPEN SPACE REQUIREMENTS

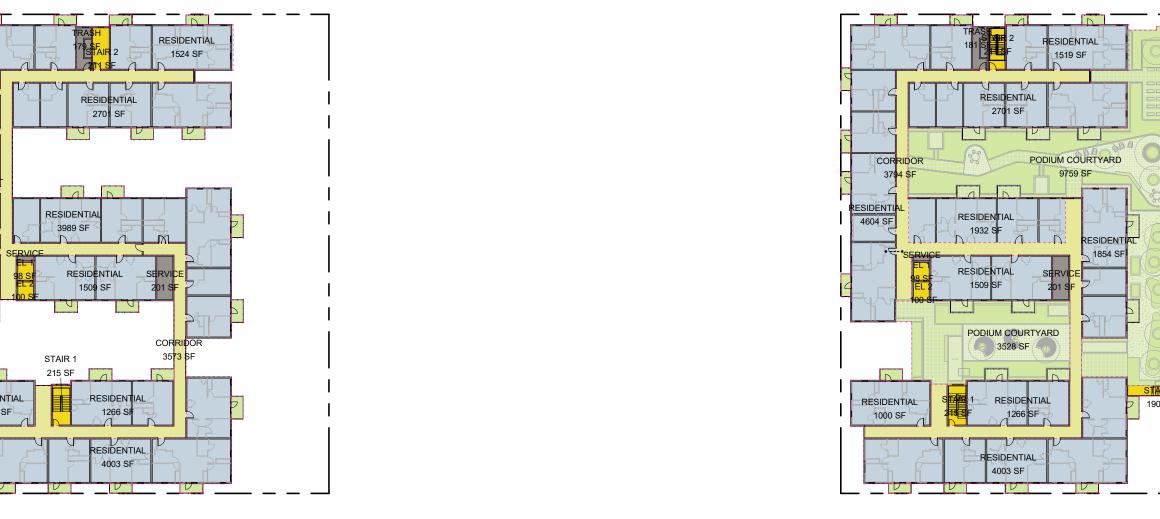


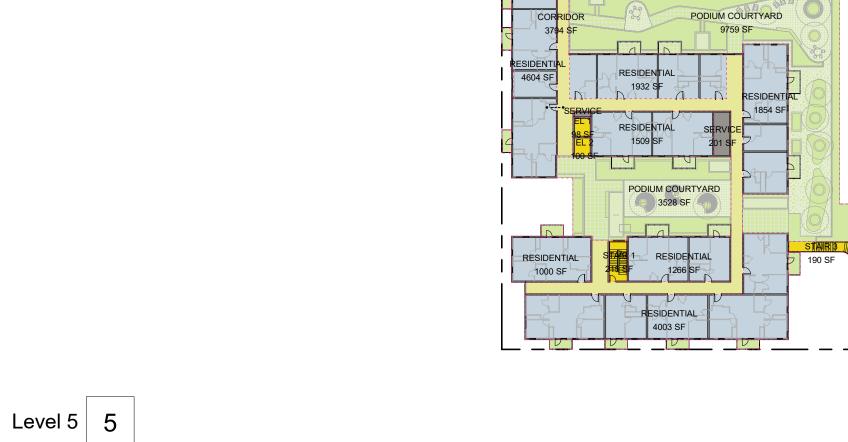




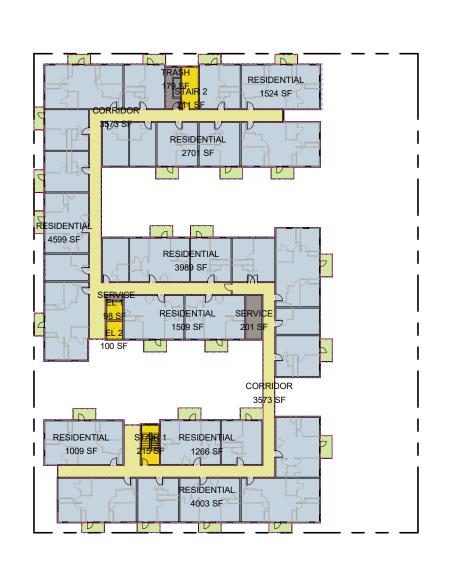












Level 1 1

Level 2

Level 4



CIRCULATION

COMMERCIAL

RESIDENTIAL

SIDEWALK

SERVICE / TRASH

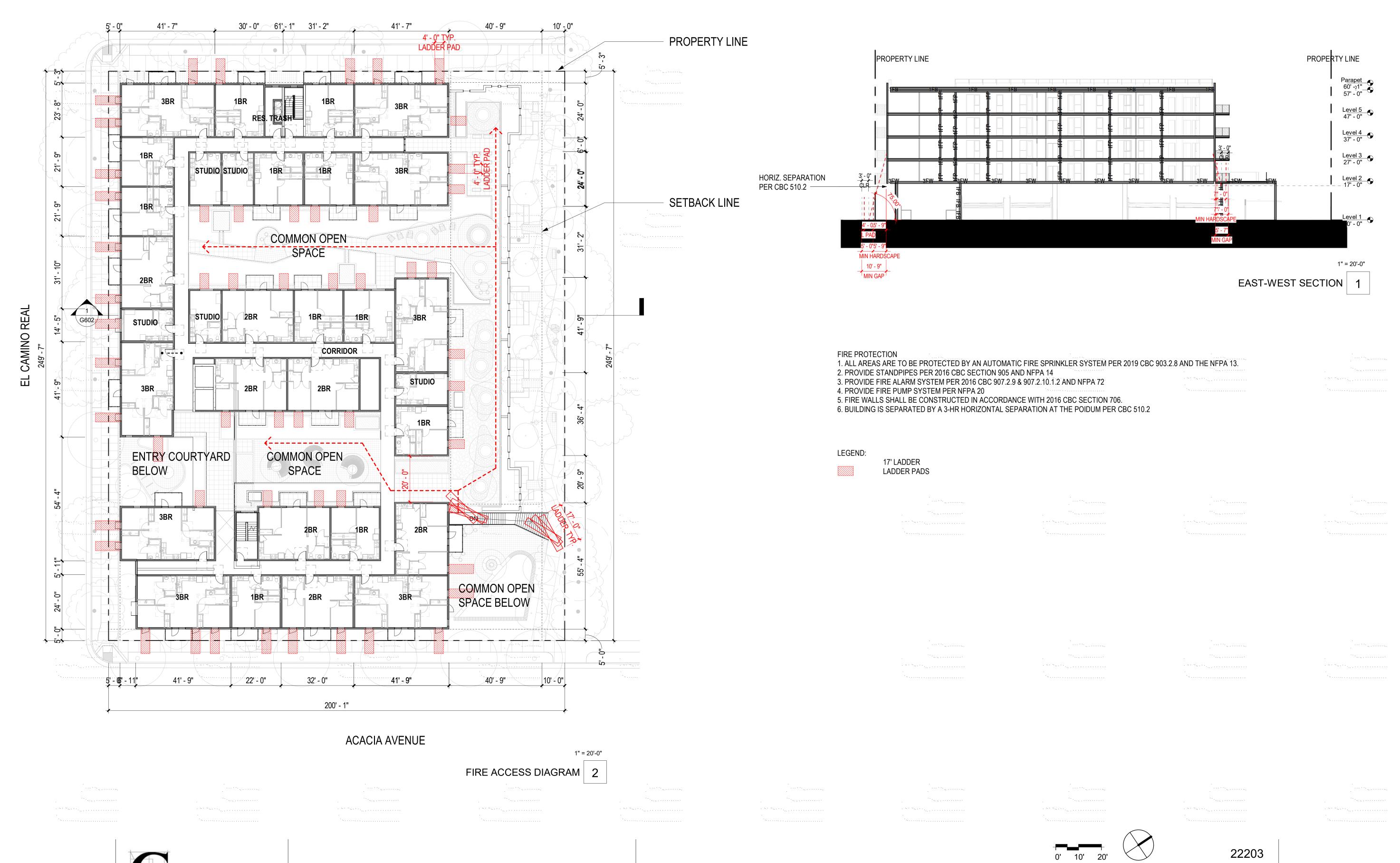
STAIRS / ELEVATOR

AREA BOUNDARY LINE

GARAGE / BIKE ROOM

GREEN / OPEN SPACE

COMMON



FOR CORRIDORS: 44" MIN PROVIDED PER TABLE 1020.2 - @ 0.15"

FOR DOORS: 32" MIN CLEAR REQUIRED PER 1010.1.1 - 34" CLR PROVIDED TYP. = @ 0.15" FOR STAIRS: 44" MIN CLEAR REQUIRED PER 1011.2 - 34" CLR PROVIDED TYP. = @ 0.2"

TWO ACCESSIBLE MEANS OF EGRESS IS PROVIDED. PER CBC 2022 SEC 1009.2.1 EXCEPTION 1, WHERE THE BUILDING IS PROVIDED WITH A HORIZONTAL EXIT THE ELEVATOR DOES NOT REQUIRED TO BE PART OF THE ACCESSIBLE MEAN OF

4 STORIES OF TYPE V/A OVER ONE LEVEL OF TYPE I/A

BUILDING IS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM INSTALLED IN ACCORDANCE WITH 903.3.1.1

Per CBC 2022 table 504.4, type V/A buildings of R-2 occupancy are allowed to have 4 stories. The building is equipped throughout with an automatic sprinkler system withouht increasing height and area.

ALLOWABLE BUILDING AREA

 $A_a = [A_t + (NS \times I_t)] \times S_a$

Aa = Allowable Area

At = Tabular allowable area factor in accordance with Table 506.2

NS = Tabular allowable area factor in accordance with Table 506.2 for a nonsprinklered building **If** = Area factor increase due to frontage

Sa = Multiplier (per 506.2.3 equals 2)

F = Building perimeter that fronts on a public way or open space having a width of 20 feet or more

P = Perimeter of entire building (feet)

W = (Width: weighted average) = Calculated width of public way or open space (feet) $= (L1 \times w1 + L2 \times w2 + L3 \times w3...)/F$

AREA 1

7,600 SF PER FLOOR 30,400 SF TOTAL BLDG AREA TYPE V

ALLOWABLE AREA PER STORY 19,200 SF TOTAL ALLOWABLE AREA 76,800 SF: COMPLIES

17,400 SF PER FLOOR PER AREA 69,600 SF TOTAL BLDG AREA TYPE V

ALLOWABLE AREA PER STORY 19,200 SF TOTAL ALLOWABLE AREA 81,600 SF: **COMPLIES** **ALLOWABLE BUILDING AREA 1**

At = SM (without height increase) = 36,000 SF (SPRINKLERS USED WITHOUT HEIGHT INCREASE)

Ns = 12,000 SF

 $I_r = [F/P - 0.25] W/30$

F = 144'+56'+52'+144' = 396' (ALL THE FRONTAGES HAVE A WIDTH OF AT LEAST 30')

P = 144'+56'+98'+32'+54'+38'+62'+52'+58 = 594' W = [(120*30)+(24*20)+(56*30)] / 396' = 15'

 $I_f = [F/P - 0.25] \times W/30 = ((396' / 594') - 0.25) \times (15' / 30) = 0.208 \sim 0.2 \text{ (rounded down)}$

 $A_a = [A_t + (NS \times I_f)] \times S_a$

 $A_a = [36,000 + (12,000 \times 0.2)] \times 2 = 76,800 \text{ SF}$

A = TOTAL TYPE V/A AREA SHALL NOT EXCEED 76,800 SF

EVERY SINGLE STORY OF TYPE V SHALL NOT EXCEED 19,200 SF

ALLOWABLE BUILDING AREA 2

At = SM (without height increase) = 36,000 SF (SPRINKLERS USED WITHOUT HEIGHT INCREASE)

Ns = 12,000 SF

 $I_r = [F/P - 0.25] W/30$

OLIVE AVENUE

F = 144'+78'+36'+54'+144'+155'+114'+114' = 839' (ALL THE FRONTAGES HAVE A WIDTH OF AT LEAST 30')

TRANSFORMER

PROPERTY LINE

P = 144'+78'+36'+54'+144'+155'+114'+114'+11'+19'+5' = 874'

W = [(120*30)+(24*20)+(78*30)+(36*30)+(54*20)+(114*30)+(114*30)] / 839' = 19' $I = [F/P - 0.25] \times W/30 = ((835' / 874') - 0.25) \times (19' / 30) = 0.44 \sim 0.4 \text{ (rounded down)}$

 $A_a = [A_t + (NS \times I_t)] \times S_a$

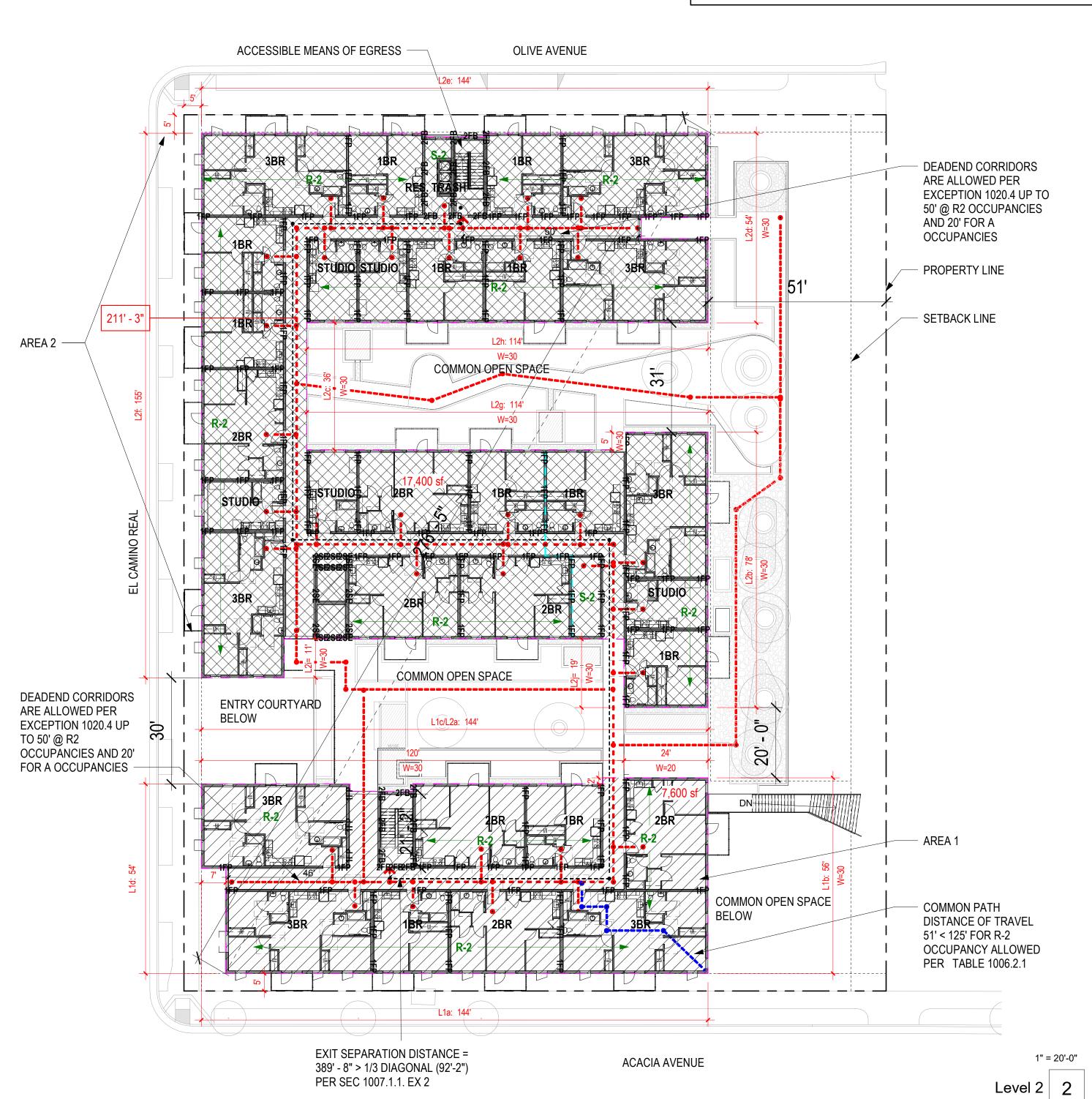
 $A_a = [36,000 + (12,000 \times 0.4)] \times 2 = 81,600 \text{ SF}$

CONCRETE

ACCESSIBLE WALK

A = TOTAL TYPE V/A AREA SHALL NOT EXCEED 81,600 SF

EVERY SINGLE STORY OF TYPE V SHALL NOT EXCEED 19,200 SF



SETBACK LINE SERVICE 3 BR **•** - - - - - • **FITNESS** PARKING LIFTS PARKING LIFTS (18 SPACES) (18 SPACES) 2 LEVELS 2 LEVELS COMPACT COMPACT THIS LIFT SYSTEM THIS LIFT SYSTEM EVSE-READY EVSE-READY 2 BR 750 SF 98 2-HIGH PUZZLE LIFT\$ SERVICE +5 ADA +1 EVSE **S-2** PARKING LIFTS\ PARKING LIFTS (18 SPACES) (22 SPACES) 2 LEVELS 2 LEVELS THIS LIFT SYSTEM THIS LIFT SYSTEM EVSE-READY EVSE-READY BIKE PARKING 2FB PFBFBFB **PROPERTY LINE** 138 BIKE SPACES SETBACK LINE EVSE-INSTALLED **EVSE-READY** PARKING LIFTS **OCCUPANCY SEPARATIONS** ENTRY COURTYARD COMPACT **BUILDING OVERHEAD** OCCUPANCIES ON TYPE I LEVELS ARE THIS LIFT SYSTEM NONSEPARATED PER CBC 508.3 EVSE-READY PARKING GARAGE TO BE SEPARATED PER CBC 406.4.6 IN ACCORDANCE COMMUNITY ST. = 17:-70" WITH SECTION 508.1. CODE ANALYSIS DIAGRAM LEGEND ROOM A-3 PROP. MGMT. OPEN SPACE 1FP 1FP 1FP 2FP 2FP 2FP 2 HR SHAFT ENCLOSUR 2SE 2SE 2SE FIRE PUMP ROOM DOMESTIC PUMF 1 HR EXTERIOR WALL **RES. SERVICES** • ACCESSIBLE ROUTE AND EXIT PATH COMMON PATH OF TRAVE R-2 DCCUPANCY ACACIA AVENUE 1" = 20'-0" DISTANCE = 26' - 0" > 1/3 OF TRAVEL 30' < 75' FOR A DIAGONAL PER SEC OCCUPANCY ALLOWED PER LIFE SAFETY/EXIT ACCESS 22203 scale (printed at 22x34) 1" = 20'-0"





Charities Housing 3001-3017 EL CAMINO REAL

CODE DIAGRAMS

G603

01/20/2023



1. LOOKING EAST FROM EL CAMINO REAL TOWARDS AT WEST SIDE OF SITE



2. LOOKING NORTH FROM EL CAMINO REAL AT SOUTH SIDE OF SITE



3. LOOKING NORTHWEST FROM ACACIA AVE AT SOUTHEAST SIDE OF SITE 02/2022



4. LOOKING WEST FROM ACACIA AVE AT EAST SIDE OF SITE



5. LOOKING SOUTH FROM OLIVE AVE AT NORTH SIDE OF SITE 01/2020



6. VIEW OF OLIVE AVENUE NORTH 03/2022



7. VIEW OF EL CAMINO REAL & ACACIA AVENUE WEST 03/2022



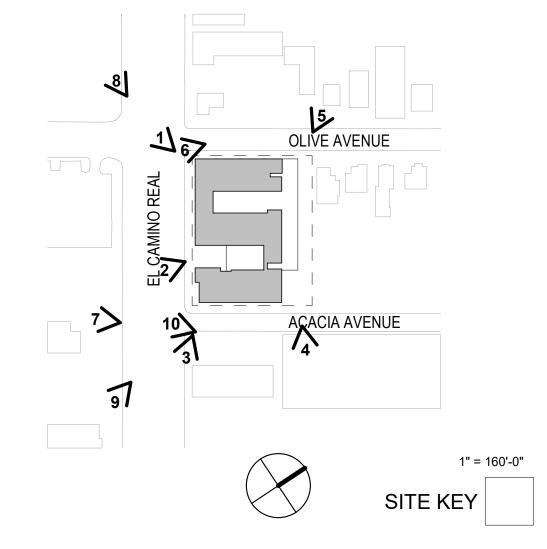
8. VIEW OF EL CAMINO REAL EAST 03/2022



9. 7. VIEW OF EL CAMINO REAL & ACACIA AVENUE SOUTH 03/2022

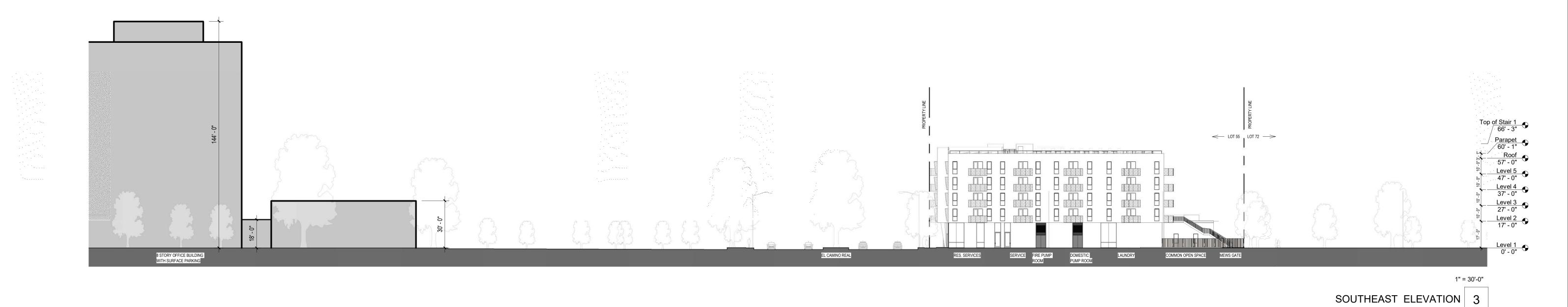


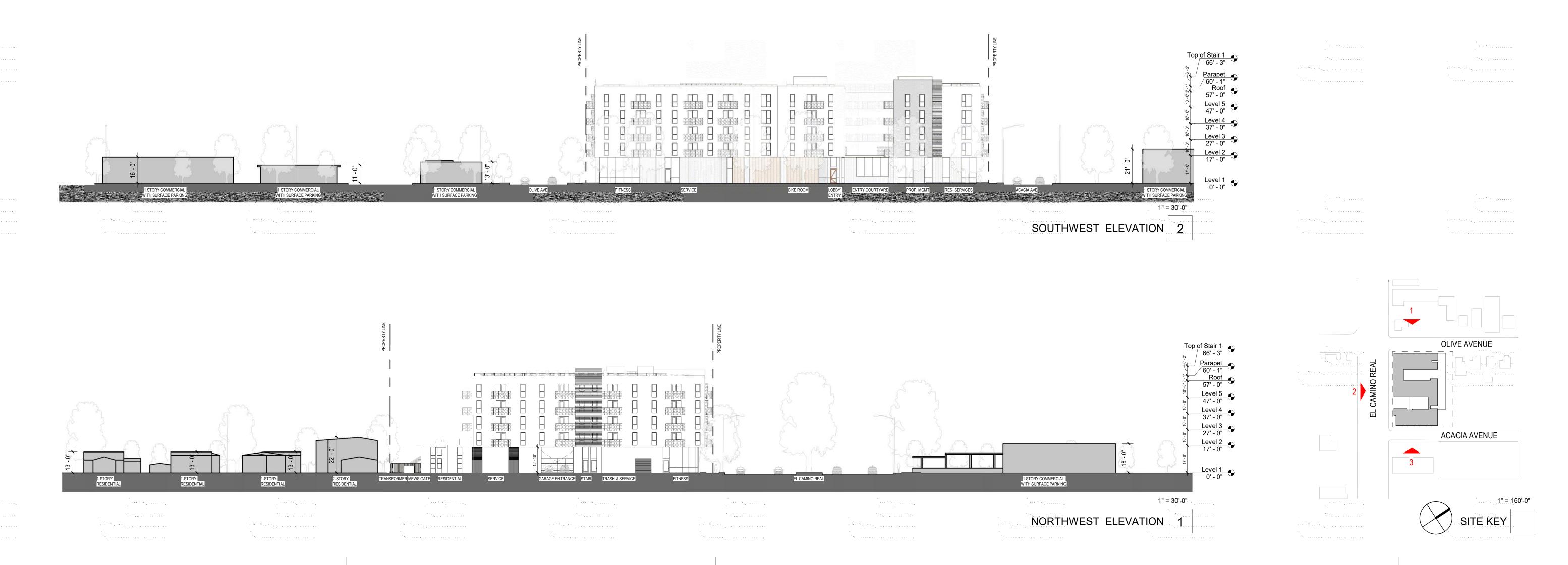
10. VIEW OF ACACIA AVENUE NORTH 05/2022

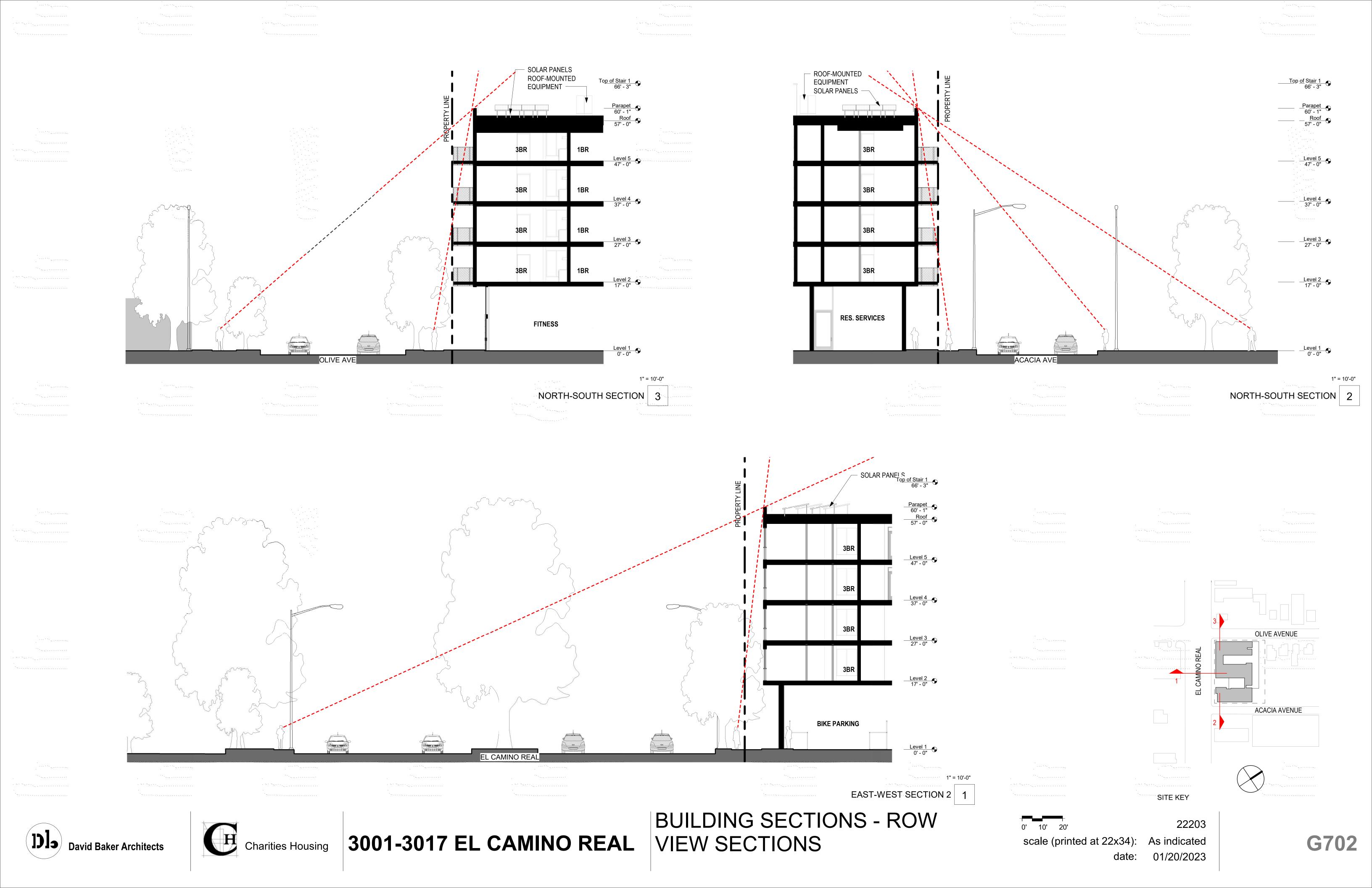










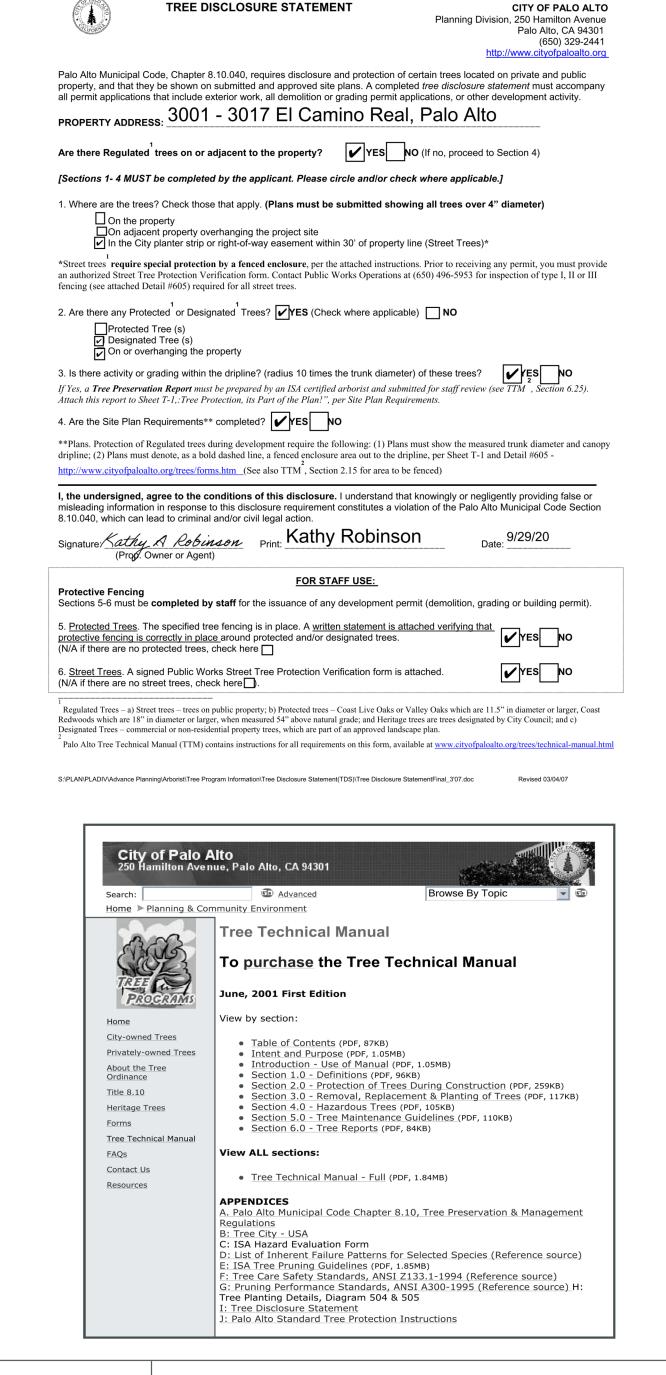


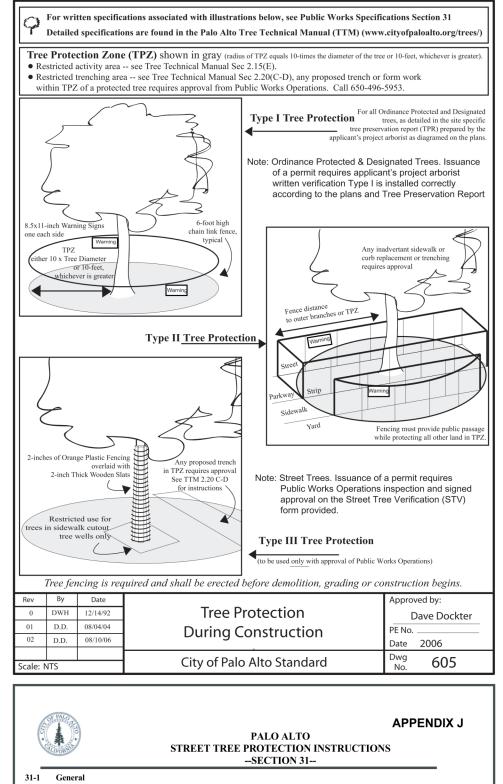
City of Palo Alto

Tree Protection - It's Part of the Plan!

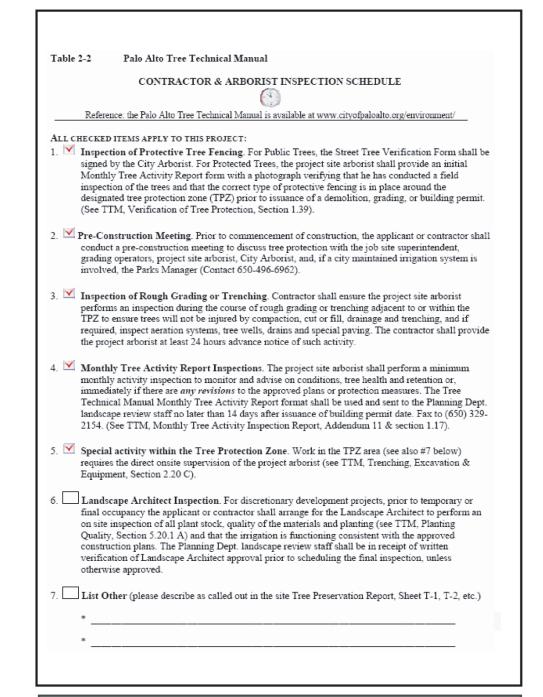
Make sure your crews and subs do the job right!

Fenced enclosures around trees are essential to protect them by keeping the foliage canopy and branching structure clear from contact by equipment, materials and activities, preserving roots and soil conditions in an intact and non-compacted state, and identifying the Tree Protection Zone (TPZ) in which no soil disturbance is permitted and activities are restricted, unless otherwise approved. An approved tree protection report must be added to this sheet when project activity occurs within the TPZ of a regulated tree. For detailed information on Palo Alto's regulated trees and protection during development, review the City Tree Technical Manual (TTM) found at www.cityofpaloalto.org/trees/.

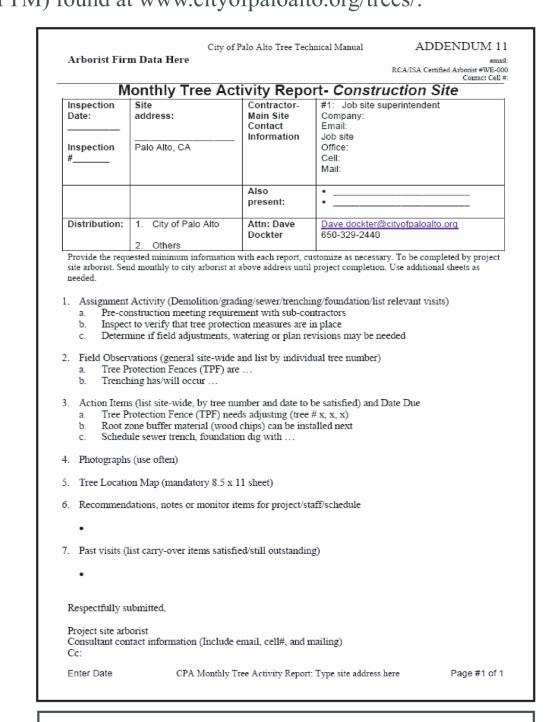




scale: N15	City of Fallo Alto Staffdard	No.	005
PAGE	PALO ALTO STREET TREE PROTECTION INSTRUCTIONSECTION 31	APPEI NS	NDIX J
31-1 Genera			_
a. b.	Tree protection has three primary functions, 1) to keep the foliage canopy and b from contact by equipment, materials and activities; 2) to preserve roots and soil con non-compacted state and 3) to identify the Tree Protection Zone (TPZ) in which permitted and activities are restricted, unless otherwise approved. The Tree Protection Zone (TPZ) is a restricted area around the base of the tree with the diameter of the tree's trunk or ten feet; whichever is greater, enclosed by fencing.	nditions in an n no soil dist	intact and urbance is
31-2 Refere a. b.	nce Documents Detail 605 – Illustration of situations described below. Tree Technical Manual (TTM) Forms (http://www.cityofpaloalto.org/trees/) 1. Trenching Restriction Zones (TTM, Section 2.20(C)) 2. Arborist Reporting Protocol (TTM, Section 6.30) 3. Site Plan Requirements (TTM, Section 6.35) 4. Tree Disclosure Statement (TTM, Appendix J) Street Tree Verification (STV) Form (http://www.cityofpaloalto.org/trees/forms)		
21.2 E	4		
31-3 Execut a.	Type I Tree Protection: The fence shall enclose the entire TPZ of the tree(s) to be pr life of the construction project. In some parking areas, if fencing is located on paving be demolished, then the posts may be supported by an appropriate grade level concret	or concrete th	at will not
b.	Public Works Operations. Type II Tree Protection: For trees situated within a planting strip, only the planting the TPZ shall be enclosed with the required chain link protective fencing in order to k		
c.	street open for public use. Type III Tree Protection: To be used only with approval of Public Works Operation tree well or sidewalk planter pit, shall be wrapped with 2-inches of orange plastic fence the first branch and overlaid with 2-inch thick wooden slats bound securely (slats shall into the bark). During installation of the plastic fencing, caution shall be used to avoid branches. Major limbs may also require plastic fencing as directed by the City Arbori	cing from the ll not be allow d damaging a	ground to red to dig
d.	Size, type and area to be fenced. All trees to be preserved shall be protected with sit link fences. Fences are to be mounted on two-inch diameter galvanized iron posts, dr a depth of at least 2-feet at no more than 10-foot spacing. Fencing shall extend to the a specifically approved on the STV Form.	x (6') foot hig	ground to
e.	'Warning' signs. A warning sign shall be weather proof and prominently displayed of intervals. The sign shall be minimum 8.5-inches x 11-inches and clearly state in half "WARNING - Tree Protection Zone - This fence shall not be removed and is subject PAMC Section 8.10.110."	inch tall letter	rs:
f.	Duration. Tree fencing shall be erected before demolition; grading or construction be place until final inspection of the project, except for work specifically allowed in the disturbance in the TPZ requires approval by the project arborist or City Arborist (in the Street Trees). Excavations within the public right of way require a Street Work Permi	TPZ. Work on the case of work	r soil k around
g.	During construction		
	 All neighbors' trees that overhang the project site shall be protected from impact c The applicant shall be responsible for the repair or replacement plus penalty of ar that are damaged during the course of construction, pursuant to Section 8.04.070 Municipal Code. The following tree preservation measures apply to all trees to be retained: No storage of material, topsoil, vehicles or equipment shall be permitted The ground under and around the tree canopy area shall not be altered. Trees to be retained shall be irrigated, aerated and maintained as necessare. 	ny publicly ov of the Palo A	PZ.
	END OF SECTION to 2004 Standard Drawings and Specifications ification of Protection, PWE, Section 31 Revised 0	8/06	



PORT	City of Palo Al Tree Department Public Works Operations PO Box 10250 Palo Alto, CA 650/496-5953 FAX: 650/85: treeprotection@CityofPaloA	A 94303 2-9289	Verification of Street Tree Protection	1
			rm. Mail or FAX this form along with signed Tree ks Tree Staff will inspect and notify applicant.	
APPLICATION	DATE:			
ADDRESS/LOG TREES TO BE	CATION OF STREET PROTECTED:			
APPLICANT'S	NAME:			
APPLICANT'S	ADDRESS:			
APPLICANT'S & FAX NUMBE				
This section to I	be filled out by City Tree Sta	aff		
address(es)	Trees at the above are adequately		YES NO*	
protected. 1 used is:	he type of protection		* If NO, go to #2 below	
Inspected by	r:			
Date of Inspe	ection:			
address are protected. I modification	Trees at the above PNOT adequately The following as are required: We the required as were communicated cant.			
Subsequent Ins	pection			
Street trees at a to be adequatel	above address were found y protected:	* If	YES $\hfill \square$ NO* $\hfill \square$ NO, indicate in "Notes" below the disposition of case.	
Inpsected by:				
Date of Inspec	tion:			
site, condition a installed. Also i	y street trees by species, nd type of tree protection note if pictures were k of sheet if necessary.			
Return approv		demolition o	or building permit issuance.	5/



---WARNING---**Tree Protection Zone**

This fencing shall not be removed without City Arborist approval (650-496-5953)

Removal without permission is subject to a \$500 fine per day*

*Palo Alto Municipal Code Section 8.10.110 City of Palo Alto Tree Protection Instructions are located at http://www.city.palo-alto.ca.us/trees/technical-manual.html

SPECIAL INSPECTIONS	PLANNING DEPARTMENT
TREE PROTECTION INSPECTIONS MA	NDATORY
PAMC 8.10 PROTECTED TREES. CONTRACTOR SHALL ENSURE PROJECT REQUIRED TREE INSPECTION AND SITE MONITORING. PROVIDE WRITTING PRORTS TO THE PLANNING DEPARTMENT LANDSCAPE REVIEW STAFF BUILDING PERMIT ISSUANCE.	EN MONTHLY TREE ACTIVITY
BUILDING PERMIT DATE:	
DATE OF 1 ST TREE ACTIVITY REPORT:	
CITY STAFF:	
REPORTING DETAILS OF THE MONTHLY TREE ACTIVITY REPORT SHALL VERIFY THAT ALL TREE PROTECTION MEASURES ARE IMPLIMENTED AN ACTIVITY, SCHEDULED OR UNSCHEDULED, WITHIN A TREE PROTECTI IS SUBJECT TO VIOLATION OF PAMC 8.10.080. REFERENCE: PALO SECTION 2.00 AND ADDENDUM 11.	ND WILL INCLUDE ALL CONTRACTOR ON ROOT ZONE. NON-COMPLIANCE

Apply Tree Protection Report on sheet(s) T-2

Use addtional "T" sheets as needed

Project

] –]



All other tree-related reports shall be added to the space provided on this sheet (adding as needed) Include this sheet(s) on Project Sheet Index or Legend Page. A copy of T-1 can be downloaded at

Special Tree Protection Instruction Sheet City of Palo Alto



T-1

http://www.cityofpaloalto.org/civica/filebank/blobdload.asp?BlobID=6460

22203

City of Palo Alto Tree Protection - It's Part of the Plan!

Make sure your crews and subs do the job right!

Fenced enclosures around trees are essential to protect them by keeping the foliage canopy and branching structure clear from contact by equipment, materials and activities, preserving roots and soil conditions in an intact and non-compacted state, and identifying the Tree Protection Zone (TPZ) in which no soil disturbance is permitted and activities are restricted, unless otherwise approved. An appoved tree protection report must be added to this sheet when project activity occurs within the TPZ of a regulated tree. For detailed information on Palo Alto's regulated trees and protection during development, review the City Tree Technical Manual (TTM) found at www.cityofpaloalto.org/trees/.

ARBOR RESOURCES professional consulting arborists and tree care	David L. Babby, Registered Consulting Arborist® September 23, 2022	David L. Babby, Registered Consulting Arborist® September 23, 2022	David L. Babby, Registered Consulting Arborist [®] September 23, 2022
	TABLE OF CONTENTS	1.0 INTRODUCTION	2.0 TREE COUNT AND COMPOSITION
	SECTION TITLE PAGE	Charities Housing is planning to construct a five story building containing 120 multi-family.	There is a control of 10 against a series and investigation of the series of the serie
TREE PROTECTION REPORT	1.0 INTRODUCTION 1	Charities Housing is planning to construct a five-story building containing 129 multi-family housing units at 3001 and 3017 El Camino Real, Palo Alto (22PLN-00229). The project site	Twenty-five (25) trees of 10 various species were inventoried for this report. They are sequentially numbered and tagged as #1-15, 18, 21-25, 33 and 54-56, and the table below
		consists of two vacant buildings and a parking lot, and is bordered by El Camino Real to the	identifies their common names, assigned numbers, counts and overall percentages.
	2.0 TREE COUNT AND COMPOSITION 2	south, Acacia Avenue to the east, and Olive Avenue to the west. As part of their planning	
	3.0 REGULATED TREES 4	submittal to the City of Palo Alto (CPA), Charities Housing has retained me to prepare this	Table 1 - Tree Count and Composition
2004 9 2047 EL CAMINO DEAL	4.0 SUITABILITY FOR TREE PRESERVATION 5	Tree Protection Report, and specific tasks assigned to execute are as follows (this report serves to update my prior 3/18/22 report prepared for this project):	% OF
3001 & 3017 EL CAMINO REAL	5.0 PROPOSED TREE DISPOSITION 6	 Visit the site on 3/9/22, 3/11/22, 3/12/22 and 9/16/22 to identify 25 trees which have 	NAME TREE NUMBER(S) COUNT TOTAL
PALO ALTO, CA	5.1 Tree Disposition Summary	trunks located within or adjacent to the work area. These trees account for those	Aleppo pine 25 1 4%
(22PLN-00229)	5.3 Retention of Protected Trees	within the property, overhanging from neighboring properties, and along adjoining	Aristocrat callery pear 10-12, 14 & 18 5 20%
(ZZF LIN-00ZZ9)	6.0 TREE PROTECTION MEASURES 9	 street frontages up to 30 feet from the property boundary. Determine each tree's trunk diameter pursuant to the City's <i>Tree Technical Manual</i>¹ 	Canary Island date palm 56 1 4%
	6.1 Design Guidelines	and the Guide for Plant Appraisal, 10th Edition;2 diameters are rounded to the	900 (201 •)000 (20 / 200 (2) • (200 (2))
	6.2 Before Demolition, Grading and Construction	nearest inch, and those listed with >one diameter are formed by multiple trunks.	London plane tree 1 thru 9 9 36%
Cultural to a	7.0 ASSUMPTIONS AND LIMITING CONDITIONS 17	 Obtain photos; see Exhibit C (#33 & 54-56 on 9/16/22, all others in March 2022). 	Pepper tree 13 1 4%
Submitted to:		 Estimate each tree's height and average canopy spread (rounded to the nearest fifth). Ascertain each tree's health, structural integrity and form, and assign an overall 	Purple Robe locust 15 1 4%
Charities Housing		condition percent (100%=best, 0%=worst) and description (e.g. good, fair, poor or dead).	Queen palm 54 & 55 2 8%
1400 Parkmoor Avenue, Suite 190 San Jose, CA 95126	TABLE	 Rate each tree's suitability for preservation (e.g. high, moderate or low). 	
3411303C, CA 33120	TABLE TITLE	 Utilize the numbering pattern established (by others) on the topo survey, and plot these numbers gate the site man in Exhibit P (here man is a corp. of the Topographic 	Silver dollar gum 21, 22 & 24 3 12%
	1 TREE COUNT AND COMPOSITION 2	those numbers onto the site map in Exhibit B (base map is a copy of the <i>Topographic & Boundary Survey</i> prepared by Kier & Wright, dated May 2018).	Tree-of-Heaven 23 1 4%
B	2 TREE DISPOSITION TABLE	 Affix round metal tags with corresponding, engraved numbers onto accessible trees 	Trident maple 33 1 4%
Prepared by:		(includes all but inaccessible trunks of #54 thru 56).	(20 17 17 17 17 17 17 17 17 17 17 17 17 17
David L. Babby	3 CPA TREE REPLACEMENT STANDARD	 Identify which are defined by the PAMC as protected and/or street trees. Provides the 7/7/23 Frighter Lands are Plant (L002) represent the form/oracle. 	Total 25 100%
Registered Consulting Arborist [®] #399 Board-Certified Master Arborist [®] #WE-4001B	· · · · · · · · · · · · · · · · · · ·	 Review the 7/7/22 Existing Landscape Plan (L002), prepared by form/work landscape architecture, to ascertain the proposed tree disposition and replacements. 	
bouru-certijieu iviaster Arborist #WE-4001B	EXHIBITS	 Provide design guidelines and protection measures to help avoid or mitigate potential 	Specific information regarding each tree is presented within the table in Exhibit A. The
	EXHIBIT TITLE	impacts to retained trees, as well as conform with City requirements.	trees' assigned numbers and approximate locations can be viewed on the site map in
	A TREE INVENTORY TABLE (fave shoots)	 Prepare a written report presenting the above information, and submit via email as a 	Exhibit B, and photographs are presented in Exhibit C.
	A TREE INVENTORY TABLE (four sheets)	PDF document.	As illustrated in Table 1, the most frequently encountered species is London plane tree (at
Prior: March 18. 2022	B SITE MAP (one sheet)	 Available for viewing at www.cityofpaloalto.org/civica/filebank/blobdload.asp?BlobID=6436. Authored by the Council of Tree & Landscape Appraisers, and published by the International Society of 	36%), followed by Aristocrat pear (at 20%) and silver dollar gum (at 12%). All 25 trees
Current: September 23, 2022	C PHOTOGRAPHS (four sheets)	Arboriculture (ISA).	are considered ornamental and not native to the local geographical region.
o. box 25295, san mateo, california 94402 • email: arborresources@comcast.net ffice: 650.654.3351 • cell: 650.274.3656 • licensed contractor #796763		3001 & 3017 El Camino Real, Palo Alto Page 1 of 17 Charities Housing	3001 & 3017 El Camino Real, Palo Alto Page 2 of 17 Charities Housing
avid L. Babby, Registered Consulting Arborist® September 23, 2022			
	David L. Babby, Registered Consulting Arborist® September 23, 2022	David L. Babby, Registered Consulting Arborist September 23, 2022	David L. Babby, Registered Consulting Arborist [®] September 23, 2022
leven (11) trees are located within the public right-of-way and regulated by the CPA as	David L. Babby, Registered Consulting Arborist September 23, 2022 3.0 REGULATED TREES	David L. Babby, Registered Consulting Arborist® September 23, 2022 4.0 SUITABILITY FOR TREE PRESERVATION	5.0 PROPOSED TREE DISPOSITION
leven (11) trees are located within the public right-of-way and regulated by the CPA as reet trees (see Section 3.0 for additional information); they include #1-9, 15 and 33. Trees		4.0 SUITABILITY FOR TREE PRESERVATION	5.0 PROPOSED TREE DISPOSITION
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All other tree-related reports shall be added to the space provided on this sheet (adding as needed) Include this sheet(s) on Project Sheet Index or Legend Page. A copy of T-1 can be downloaded at http://www.cityofpaloalto.org/civica/filebank/blobdload.asp?BlobID=6460

Special Tree Protection Instruction Sheet City of Palo Alto



TREE PROTECTION - ARBORIST REPORT

Project

City of Palo Alto Tree Protection - It's Part of the Plan!

Make sure your crews and subs do the job right!

Fenced enclosures around trees are essential to protect them by keeping the foliage canopy and branching structure clear from contact by equipment, materials and activities, preserving roots and soil conditions in an intact and non-compacted state, and identifying the Tree Protection Zone (TPZ) in which no soil disturbance is permitted and activities are restricted, unless otherwise approved. An approved tree protection report must be added to this sheet when project activity occurs within the TPZ of a regulated tree.

For detailed information on Palo Alto's regulated trees and protection during development, review the City Tree Technical Manual (TTM) found at www.cityofpaloalto.org/trees/.

	David L. Babby, Registered Consulting Arborist® September 23, 2022	David L. Babby, Registered Consulting Arborist® September 23, 2022	David L. Babby, Registered Consulting Arborist® September 23,
Table 2 continued:	Should available future planting space be insufficient to reasonably accommodate this	6.0 TREE PROTECTION MEASURES	4. Add the following onto a tree disposition plan or tree protection plan (or equivale
oce and respect to the control of th	amount, alternative sizes can be applied and are specified within the last column of Table	0.0 TREE PROTECTION WEASURES	notes listed in item #3; for trees proposed for removal, place an "X" across t
TREE DIAM CAN REPLACEMENTS	3-1. Depositing an in-lieu fee into the CPA's Forestry Fund might also serve to mitigate		trunks; and identify the Tree Protection Zones (TPZs).
# NAME RETAIN RMV (in.) (ft.) (for removals)	any difference.	Recommendations presented within this section serve as measures to help mitigate or avoid impacts to trees being retained. They should be incorporated into the project plans;	
18 Aristocrat callery pear X 16 35 four of 24" box size		carefully followed throughout demolition, construction and landscaping; and are subject to	5. For purposes of identifying potential impacts and any possible mitigation meas
21 Silver dollar gum X - 12 20 N/A	Table 3 - CPA Tree Replacement Standard	revision upon reviewing future project plans. I (hereinafter, "project arborist") should be	the CPA requires all design changes occurring near retained trees are reviewed by
22 Silver dollar gum X - 17 35 N/A		consulted in the event any cannot be feasibly implemented. Please note, unless otherwise	project arborist prior to resubmitting plans.
23 Tree-of-Heaven - X 11,8,7,6 30 four of 24" box size	TABLE 3-1 Tree Canopy - Replacement Standard	stated, all referenced distances from trunks are intended to be from the closest edge, face	6. Abandon any underground portions of existing and unused lines, pipes and manh
24 Silver dollar gum X - 10 30 N/A 25 Aleppo pine X - 16 30 N/A	COLUMN 1 COLUMN 2 COLUMN 3 Canopy of the Replacement Removed Tree (Aug dist arons the canopy*)	of, their outermost perimeter.	etc. within a TPZ to avoid causing root loss/damage (prescribe they are cut of existing soil grade versus being dug up). Add this provision onto the demolition p
33 Trident maple X - 2 10 N/A	4'-9' Two 24' Box Size One 36" Box Size	6.1 Design Guidelines	
54 Queen palm X - ~10 35 N/A	10"-27" Three 24" Box Size Two 36" Box Size	1. Consider each Tree Protection Zone (TPZ) as follows, the linear distances of which	7. Route underground utilities and services beyond TPZs. Where this is not feasi
55 Queen palm X - ~10 35 N/A Canary Island date X - 25 25 N/A	28"-40" Four 24" Box Size Two 48" Box Size 40"-56" Six 24" Box Size Two 36" Box & Two 36" Box Size	project in all directions from the trunk: where within existing planters, a minimum	consider the following alternative trenching or installation methods (listed in ord
56 Carrary Island date		distance of 10 times the trunk diameter, and where beyond planters, a minimum	least to most impactful): directionally bore by at least 4 feet below grade, to using a pneumatic air device (e.g. an AirSpade [®]), or manually dig with a shovel
EGEND	Two 24" Box 5 Two 36" Box 4 Two 48" Box Size	distance of 5 times the trunk diameter. The TPZ is the area where the following	no jackhammer); these assume pipe bursting, an optimal method, does not app
LEGEND RMV = Remove DIAM = Diameter (trunk)	so+	activities, and not necessarily limited to, should be avoided: trenching, soil scraping, compaction, mass and finish-grading, overexcavation, subexcavation, tilling, ripping,	this project. For boring, establish access pits and above-ground infrastructure
CAN = Canopy spread (average)		swales, bioswales, storm drains, dissipaters, equipment cleaning, removal of	splice boxes, meters and vaults) beyond TPZs.
n. = inches ft. = feet		underground utilities and vaults, altering existing water/drainage flows, stockpiling	
CPA = City of Palo Alto	5.3 Retained Trees	and dumping of materials, and equipment and vehicle operation. Where an impact	8. Ensure specifications by the geotechnical, soils and structural engineers do
	The 18 trees proposed for retention include #1-9, 15, 21-24, 33 and 54-56. These account	encroaches slightly within a setback, it can be reviewed on a case-by-case basis by	require compaction, overexcavation, subexcavation or fill within a TPZ. Sho
2 Proposed Removals and Mitigation	for all existing street trees aligning El Camino Real and Olive Avenue, the small street tree	the project arborist to determine appropriate mitigation measures.	utilized to achieve these setbacks, if applicable (such as a pile driver or drill
he seven trees proposed for removal, namely #10-14, 18 and 23, align the northern	maple beyond the site and along Acacia Avenue, and all offsite trees on the adjoining		shall not be used where significant damage to a tree's canopy would occur; this
oundary and directly conflict with site grading, drainage, and the future pathway	northern parking lot and residential property. Recommendations to help achieve sufficient	2. Per City requirements, incorporate this report into the project plan set, following the	be determined on a case-by-case basis.
roviding pedestrian access from Olive Avenue to Acacia Avenue. Of these, #13 (pepper	protection are presented within the next section of this report.	CPA T-1 sheet, and copy onto T-2, T-3, etc. until its entirety is shown (and in a	9. Any new walkway or sidewalk proposed on existing unpaved ground within a
ee) is considered in overall fair condition, whereas all others are found to be in overall	Programme and many openion of this relative	manner which all report text can be clearly read on the plan sheets).	should be designed and built entirely above existing soil grade and surface roots
oor condition.		3. On all architectural, civil, landscape and electrical site-related plans, show the trunk	a no-dig design), including for base material, edging and forms. Also, d
he minimum mitigation for these removals is listed within Table 2, and combined, they		locations, trunk diameters (circles to scale), and assigned numbers of all inventoried	compaction of soil shall be avoided (levels comparable to foot-tamping
otal 27 trees of 24-inch box size pursuant to Table 3-1 of the CPA Tree Technical		trees (see site map in Exhibit B). Also, add notes instructing that contractors comply	acceptable), and soil fill used to bevel the top of walk to existing grade should
fanual; a copy is shown on Table 3 (next page).		with recommendations presented in this report and on Sheet T-1, and to contact the	exceed 18 to 24 inches from a walk's edge, not be compacted, nor placed closer
The basis of Table 3-1's replacement sizes and amounts considers the growth of one 24-inch box size tree		project arborist prior to permitted work being performed within a TPZ.	5 feet from a tree's trunk. Tensar [®] BX Geogrid (www.tensarcorp.com) is a mat which can help address these limited excavation and compaction requirements.
at a rate equivalent to 9 feet of canopy spread over the course of 10 years.			
2001 & 3017 El Camino Real, Palo Alto Page 7 of 17 harities Housing	3001 & 3017 El Camino Real, Palo Alto Page 8 of 17 Charities Housing	3001 & 3017 El Camino Real, Palo Alto Page 9 of 17 Charities Housing	3001 & 3017 El Camino Real, Palo Alto Charities Housing Page 10
10 For any rataining or landcome well within a TPZ utilize a pier and above grade	company (D.49), and performed to professional industry standards. Only if	10 The section of the	24 A man and be 65 a hall be invested when 6 and a second be invested as
10. For any retaining or landscape wall within a TPZ, utilize a pier and above-grade beam system, establish the beam spanning between footings to be above-grade (i.e. a	company (D-49), and performed to professional industry standards. Only if necessary to stand upright, they should be double-staked (no cross-brace) with	19. The project arborist must also regularly inspect the project site as outlined on page 2- 14 of the <i>Tree Technical Manual</i> (Section 2.30 Inspection Schedule), and verify	24. A root zone buffer shall be installed where fencing cannot be installed to encurpaved ground within a TPZ. It shall consist of a 6- to 12-inch layer of coarse were also as a few shall consist of a few shall be installed to encurpave a few shall be installed where fencing cannot be installed to encurpate the few shall be installed where fencing cannot be installed to encurpate the few shall be installed where fencing cannot be installed to encurpate the feature of the feature
no-dig design except for footings), and avoid fill and compaction between footings.	rubber tree ties or equivalent, and the support stakes cut below the first main	conformance to tree protection measures. Inspections shall occur at least once per	chips mentioned above, and spread over unpaved ground and surface roots; a
	and the company of th	month and continue through final inspection, and additional site visits are necessary	timps into the control of the contro
	lateral branch. All nursery stakes shall be removed. Root crowns of new trees	month and continue through final hispection, and additional site visits are necessary	contractor's discretion, sheets of plywood could be laid on top and tied together
11. Design any new bioswales, storm drains and swales well-beyond TPZs.	lateral branch. All nursery stakes shall be removed. Root crowns of new trees shall be visible and absent of encircling roots.	to observe/advise regarding tree care and/or services. A summary of pertinent	contractor's discretion, sheets of plywood could be laid on top and tied together more level, steadier walking surface. Alternative buffers can also be reviewed.
		TO A TO SERVICE OF THE SERVICE OF TH	U.C. P. CARTON BOOK AND A STATE OF CONTROL OF THE STATE O
12. All electrical routes should be designed and represented on the electrical site plan to	shall be visible and absent of encircling roots.	to observe/advise regarding tree care and/or services. A summary of pertinent observations and recommendations shall coincide with each inspection.	more level, steadier walking surface. Alternative buffers can also be reviewed. 25. Prior to grading and utility installation, review the staked locations with the pr
	shall be visible and absent of encircling roots. f. Irrigation and lighting features (e.g. main line, laterals, valve boxes, wiring and controllers) should not require trenching inside TPZs, including header/lateral lines. In the event this is not feasible, they may require being installed in a radial	to observe/advise regarding tree care and/or services. A summary of pertinent observations and recommendations shall coincide with each inspection. 20. Avoid interrupting any existing irrigation. In the event interruption does occur,	more level, steadier walking surface. Alternative buffers can also be reviewed. 25. Prior to grading and utility installation, review the staked locations with the prarborist where within or near a TPZ. Also, identify the precise locations of w
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Avoid prescribing tilling, ripping, surface scraping or compaction within TPZs. b. Irrigation should not strike within 12 inches from trunks of existing trees, nor applied against trunks of new trees. c. Plant material be installed no closer than 12 to 24 inches from tree trunks. d. If applicable, any new street tree(s) should be designed to be at least 10 feet from an existing or new utility (per CPA guidelines). e. All new trees should be installed, including necessary irrigation, by an 	shall be visible and absent of encircling roots. f. Irrigation and lighting features (e.g. main line, laterals, valve boxes, wiring and controllers) should not require trenching inside TPZs, including header/lateral lines. In the event this is not feasible, they may require being installed in a radial direction to, and terminate a specific distance from, a trunk (versus crossing past it). In certain instances, a pneumatic air device may be needed to avoid root damage, and any Netafim tubing placed on grade. g. Irrigation for new trees should be supplied through an automatic timer, separate from other plant material, and supplied by one to two bubblers (minimum two for a 48-inch box). The bubblers should be placed and staked on the rootball's surface (not against a trunk, in a sleeve or on mulch), at around 1/2 to 1/3 the distance between the trunk and rootball edge. Additionally, an 8-inch tall circular berm formed by soil should established around a rootball's perimeter, and a 3-inch layer of mulch spread over their tops, kept 1-inch from the trunks' bases. h. Ground cover beneath canopies of existing trees should be comprised of a 3-inch layer of coarse wood chips or other high-quality mulch (gorilla hair, rock, stone, gravel, black plastic or other synthetic ground cover should be avoided). Mulch should kept off the trees' trunks or visible root collars. i. Bender board or other edging material proposed beneath the canopies should be established on top of existing soil grade (such as by using vertical stakes). 6.2 Before Demolition, Grading and Construction 18. Several weeks prior to mobilizing equipment, conduct a site meeting between the general contractor, applicable subcontractors, and project arborist for the purpose of reviewing tree fencing and locations, removals, pruning, mulch placement, supplemental water, trench routes, routes of access, staging, and other items and	to observe/advise regarding tree care and/or services. A summary of pertinent observations and recommendations shall coincide with each inspection. 20. Avoid interrupting any existing irrigation. In the event interruption does occur, supplemental with potable water, and discuss the methodology, frequency and amount with the project arborist beforehand. 21. Install tree protection prior to mobilizing equipment to the site. For offsite trees, construction fencing along or inside the property line can also serve as sufficient tree protection. For street trees #7-9, 15 and 33 (#15 and/or 33 may not need fencing due to their location), install Type II Protection to enclose the entire planter strip within their TPZs; this consists of 5- to 6-foot tall chain link mounted onto 2-inch diameter steel posts driven into the ground up against adjacent sidewalks and curbs. For street trees #1 thru 6, utilize Modified Type III Protection (aka trunk wrap), which consists of wrapping a single straw wattle horizontally around the trunk at roughly 10 feet high and another around its base (loosely); placing boards (2"x4") vertically around the outside, from ground to 10 feet high; then wrapping orange-plastic fencing around the boards two to three times and tying together. All protection shall remain in place until otherwise instructed by the project arborist, and Sheet T-1 for additional information. 22. Affix warning signs every 10± feet of fencing near trees, and one onto the trunk wrap of each street tree #1 thru 6. The signs shall be at least 8-½ by 11 inches in size, and refer to Sheet T-1 for a CPA template.	more level, steadier walking surface. Alternative buffers can also be reviewed. 25. Prior to grading and utility installation, review the staked locations with the pre arborist where within or near a TPZ. Also, identify the precise locations of w underground utilities within TPZs will be capped (i.e. where being abandoned). 26. All pruning shall be performed under direction of the project arborist, conducte accordance with the most recent ANSI A300 standards, and performed by California licensed tree-service contractor (D-49) with an ISA certified arborist supervisory role. Note that for pine #25, the section of canopy overhanging the requires pruning prior to demolition. 27. For tree #33, determine if its rootball is stable (through gently pushing and pulling the trunk), and if so, manually remove the wooden support stake and ties. 28. Fertilization may benefit a tree's health, vigor and appearance. If applied, howe soil samples should first be obtained to identify the pH levels and nutrient levels proper fertilization program can be established. I further recommend any fertilization performed under the direction and supervision of a certified arborist, an accordance with the most recent ANSI A300 Fertilization standards. 6.3 During Demolition, Grading and Construction 29. Where within the assigned TPZs, all work must performed under the presence of direct supervision by the project arborist; by foot-traffic only without the trave operation of heavy equipment, including small tractors; and any approved excava manually conducted using hand tools only (no jackhammers) and/or utilizing pneumatic air device operated by a tree service.

T-3



All other tree-related reports shall be added to the space provided on this sheet (adding as needed) Include this sheet(s) on Project Sheet Index or Legend Page.

A copy of T-1 can be downloaded at http://www.cityofpaloalto.org/civica/filebank/blobdload.asp?BlobID=6460

Special Tree Protection Instruction Sheet City of Palo Alto



T-3

TREE PROTECTION - ARBORIST REPORT

Project

City of Palo Alto Tree Protection - It's Part of the Plan!

Make sure your crews and subs do the job right!

Fenced enclosures around trees are essential to protect them by keeping the foliage canopy and branching structure clear from contact by equipment, materials and activities, preserving roots and soil conditions in an intact and non-compacted state, and identifying the Tree Protection Zone (TPZ) in which no soil disturbance is permitted and activities are restricted, unless otherwise approved. An appoved tree protection report must be added to this sheet when project activity occurs within the TPZ of a regulated tree. For detailed information on Palo Alto's regulated trees and protection during development, review the City Tree Technical Manual (TTM) found at www.cityofpaloalto.org/trees/.

David L. Babby, Registered Consulting Arborist® September 23, 2022	David L. Babby, Registered Consulting Arborist® September 23, 2022	David L. Babby, Registered Consulting Arborist [®] September 23, 2022	David L. Babby, Registered Consulting Arborist [®] September 23, 2022
31. Take great care in removing the existing chain link fencing to avoid damaging adjacent trunks and branches.	moist by burlap until the dug area is backfilled. Roots encountered with diameters less than the 2-inch threshold can be cleanly severed at a 90° angle to the direction of	7.0 ASSUMPTIONS AND LIMITING CONDITIONS	
adjacent dunks and branches.	root growth.	All information presented basely covers only the inventoried trace listed in Eulibit A and	
32. Great care is needed during demolition and construction to avoid excavating into the		 All information presented herein covers only the inventoried trees listed in Exhibit A, and reflects their size, condition, and areas viewed from the project site, adjoining streets and 	
ground and disturbing roots within TPZs, and equipment shall not travel over newly	37. All electrical and irrigation routes shall be staked, reviewed and approved by the	sidewalks on 3/9/22, 3/11/22, 3/12/22 and 9/15/22. I hold no opinion towards other trees on or surrounding the project area.	
exposed ground/roots during the process. Additionally, equipment and truck	project arborist prior to trenching occurring within a TPZ.		
operators must also be aware of existing trees (both along the street and onsite) to		 The documented condition and suitability ratings of dormant trees are subject to change once they can be observed following their annual regrowth of leaves. 	
avoid damaging limbs, branches and trunks, as well as the scorching of foliage.	38. Avoid using tree trunks as winch supports for moving or lifting heavy loads, or for	 Observations were performed visually from the ground without probing, coring, dissecting or 	
Contact the project arborist well in advance of a potential conflict (wrap protection	tying rope, cables, chains, signs or other items around.	excavating.	EXHIBIT A:
around limbs may be necessary before potential damage occurs).		 I cannot provide a guarantee or warranty, expressed or implied, that deficiencies or problems of 	
	39. Dust accumulating on trunks and canopies during dry weather periods may need to	any trees or property in question may not arise in the future.	TREE INVENTORY TABLE
33. For trees impacted by root loss, apply potable water to unpaved ground beneath their	be periodically washed away (e.g. every three to four months).	 No assurance can be offered that if all my recommendations and precautionary measures 	(four sheets)
canopies every 2 to 3 weeks or as determined by the project arborist. Further review and discussion regarding the methodology, frequency and amounts can be provided	40. Where beneath canopies, avoid disposing harmful products (such as cement, paint,	(verbal or in writing) are accepted and followed, that the desired results may be achieved.	(lour sneets)
closer to construction (species and location dependent). Various application methods	chemicals, oil and gasoline) anywhere on site that allows drainage within or near	 I cannot guarantee or be responsible for the accuracy of information provided by others. 	
include automatic irrigation, periodically flooding the planter areas at a slow	TPZs; do not wash any equipment; and avoid applying herbicides (if applied, they	 I assume no responsibility for the means and methods used by any person or company implementing the recommendations provided in this report. 	
discharge rate, using soaker hoses, or through deep-root injection. Note that should	should be labeled for safe use near trees). Do not apply lime w/in 50 ft from a trunk.		
dewatering of the site be required, supplement water for all trees will become	should be tabled for safe and needs). Be not apply time with the near a manufacture of the safe and the safe	 The information provided herein represents my opinion. Accordingly, my fee is in no way contingent upon the reporting of a specified finding, conclusion or value. 	
necessary (not just for those impacted).		 Numbers shown on the site map in Exhibit B are solely intended to represent a tree's roughly 	
necessary (not just to those impacted).		approximate location and should not be construed as surveyed points.	
34. Digging for bollards or fence posts within a TPZ shall be manually performed using a		 This report is proprietary to me and may not be copied or reproduced in whole or part without 	
shovel or post-hole digger. For any root encountered during the process with a		prior written consent. It has been prepared for the sole and exclusive use of the parties to who	
diameter ≥2 inches, shift the hole over by 12 inches and repeat the process.		submitted for the purpose of contracting services provided by David L. Babby.	
		 If any part of this report or copy thereof be lost or altered, the entire evaluation shall be invalid. 	
35. Spoils generated during demolition, excavation and trenching must not be piled or			
spread over unpaved ground within a TPZ. If necessary, temporarily pile on existing			
pavement, plywood or a tarp.		h . W	
36 Any authorized disging within a TDZ should retain and protect roots angulatered		Prepared By: Date: September 23, 2022	
36. Any authorized digging within a TPZ should retain and protect roots encountered with diameters of ≥2 inches. Once exposed, cover with wet burlap and keep		David L. Babby	
continually moist until they can be assessed by the project arborist. If authorized by		Registered Consulting Arborist® #399	
the project arborist and/or CPA arborist for cutting, cleanly severe at 90° to the angle		Board-Certified Master Arborist® #WE-4001B CA Licensed Tree Service Contractor #796763 (C61/D49)	
of root growth against the cut line using sharp tools (e.g. loppers or handsaw), and			
then immediately after, the cut end shall be either buried with soil or kept continually			
3001 & 3017 El Camino Real, Palo Alto Page 15 of 17 Charities Housing	3001 & 3017 El Camino Real, Palo Alto Page 16 of 17 Charities Housing	3001 & 3017 El Camino Real, Palo Alto Page 17 of 17 Charities Housing	3001 & 3017 El Camino Real, Palo Alto Charities Housing
ARBOR RESOURCES	ARBOR RESOURCES	ARBOR RESOURCES	ARBOR RESOURCES
ARBOR RESOURCES professional consulting arborists and tree care	ARBOR RESOURCES professional consulting arborists and tree care	ARBOR RESOURCES professional consulting arborists and tree care	ARBOR RESOURCES professional consulting arborists and tree care
TREE INVENTORY TABLE	TREE INVENTORY TABLE	TREE INVENTORY TABLE	TREE INVENTORY TABLE
TREE INVENTORY TABLE SIZE CONDITION Canoph Spread (ft.) Size Condition (Good/Fair/Poor/Dead) Froposed for Removal (For N) (Yor N) Condon plane tree (Nor N)	TREE INVENTORY TABLE SIZE CONDITION Canopy Spread (ft.) Sutability for Preservation (High/Moderate/Low) (Hogh/Moderate/Low) (Yor N) From No. TREE NAME Condon plane tree (Yor N) Formula percentage (Yor N) Formula percentage (Yor N) Formula percentage (Yor N) Formula percentage (High N) Formula percentage (Yor N) Formula perce	TREE INVENTORY TABLE SIZE CONDITION SIZE CONDITION (100%=Best, 0%=Worst) A proposed for Removal (Y or N) Purple Robe locust (Y or N)	TREE INVENTORY TABLE SIZE CONDITION SIZE CONDITION (1000%= Best, 0%=Worst) Suitability for Preservation (High/Moderate/Low) Protected Tree (Yor N) Trident maple (Yor N) (Yor N) Protected Tree (Yor N) Trident maple (Yor N) Trident maple (Yor N) And
TREE INVENTORY TABLE SIZE CONDITION SIZE CONDITION Companies and tree care (i) Coood/Fair/Poor/Dead for Removal Description Coord Fair High N N Y Comments: Has outgrown its 5' long by 2.8' wide planter. Adjacent curb is cracked and raised. Base abuts a narrow 2.5' wide sidewalk, which has been raised in past. London plane tree (London p	TREE INVENTORY TABLE Canopy Spread (ft.) Canopy Spread (ft.) Canopy Spread (ft.) Canopy Spread (ft.)	TREE INVENTORY TABLE SIZE CONDITION SIZE CONDITION TREE/ TAG NO. TREE NAME Purple Robe locust (No L N) Purple Robe (No L N) Pu	TREE INVENTORY TABLE SIZE CONDITION SIZE CONDITION (i) John Spread (ft) Shark Door (high High Moderate No.
TREE INVENTORY TABLE SIZE CONDITION (10) (10) Comments: Has outgrown its 5' long by 2.8' wide planter. Adjacent curb is cracked and raised, and base abuts a narrow 2.5' wide sidewalk. Large crack in sidewalk. Dead branch suspended in its TREE NAME TREE INVENTORY TABLE REGULATED REGULATED	TREE INVENTORY TABLE SIZE CONDITION (i)	TREE INVENTORY TABLE SIZE CONDITION (i)	TREE INVENTORY TABLE SIZE CONDITION SIZE CONDITION (it)
TREE INVENTORY TABLE SIZE CONDITION SIZE CONDITION ('('u) Good/Lain Good/Lair Goo	TREE INVENTORY TABLE SIZE CONDITION (it)	TREE INVENTORY TABLE SIZE CONDITION (i)	TREE INVENTORY TABLE SIZE CONDITION SIZE CONDITION (i)
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TREE INVENTORY TABLE SIZE CONDITION (i) Jay 100 Jay	TREE INVENTORY TABLE SIZE	TREE INVENTORY TABLE SIZE CONDITION TREGULATED TREE TO TREE TO TREE TO TREE TO TREE TO TREE TREE TAG TREE TREE TREE TAG TREE TR	TREE INVENTORY TABLE SIZE CONDITION (u) Page 1/2 Page 1
TREE INVENTORY TABLE SIZE CONDITION (a) 1	TREE INVENTORY TABLE SIZE	TREE INVENTORY TABLE SIZE	TREE INVENTORY TABLE SIZE CONDITION SIZE CONDITION (i) 1
TREE INVENTORY TABLE SIZE CONDITION (i) Jayan (No.)	TREE INVENTORY TABLE SIZE	TREE INVENTORY TABLE SIZE CONDITION	TREE INVENTORY TABLE SIZE CONDITION SIZE CONDITION (u) 12
TREE INVENTORY TABLE SIZE CONDITION (B) (B) (B) (B) (B) (B) (B) (B	TREE INVENTORY TABLE SIZE CONDITION	TREE INVENTORY TABLE SIZE	TREE INVENTORY TABLE SIZE CONDITION Comments: Added to map, its trunk being 23' from PL. Has a mostly one-sided canopy due to pass pruning. Single stake bound to trunk. Multiple leaders emerge from trunk at 4' high. Comments: Offsite. Trunk inaccessible, and is not visible behind fence. Has a dead frond hanging bottom of canopy. Canary Island date palm (Phoenix canariensis) ~25 25 35 80% Good High N N

Project

T-4



All other tree-related reports shall be added to the space provided on this sheet (adding as needed) Include this sheet(s) on Project Sheet Index or Legend Page. A copy of T-1 can be downloaded at http://www.cityofpaloalto.org/civica/filebank/blobdload.asp?BlobID=6460

Special Tree Protection Instruction Sheet City of Palo Alto



TREE PROTECTION - ARBORIST REPORT

3001 & 3017 El Camino Real, Palo Alto

LEGEND SEE SHEET 2 **ABBREVIATIONS** PROPERTY LINE ASPHALTIC CONCRETE ADJACENT PROPERTY LINE AREA DRAIN PORMER LOT LINES and the same and BUILDING CENTERLINE ____ BOTTOM OF RAMP DASEMENT BUILDING LINE BOTTOM OF STEP BUILDING OVERHANG FOUND MONUMENT AS NOTED FOUND IRON PIPE OR AS NOTED CLEAN OUT TO GRADE STREET LIGHT DIGHT ON UTILITY POCE. CONCRETE PIPE TRANSPORMER FIRE HYDRAMI EDGE OF NAVEMENT STORM DRAIN MANHOLE MANHOLE ELECTRIC VAULT CLEAN OUT EDGE OF WALK GAS MITTER: FINISH FLOOR FLOW LINE UTILITY POLE WITH GUY FENCE CATCH BASIN / IDRAPH INLET FACE OF WALL VICINITY MAP WATER METER CROUND PIRE DEPARTMENT CONNECTION. CAS VALVE BACK FLOW PREVENTER INVEST ELEVATION POST INDICATOR VALVE LANDSCAPE UTILITY BOX (SIZE VARIES) LIF OF GUTTER MONITORING WELL PAVIDMENT POLYVINYL CHLORIDE AUTOMATIC SPRINKLER RISER P.O.E. PUBLIC UTILITY EASEMENT RECORD INFORMATION RIM RIM ELEVATION SANITARY SEWER SUB STREET LIGHT BOX STORM DRAIN SSMH SANITARY SEWER MANHOLE WATER UNDERGROUND ELECTRIC OVERHEAD CABLE TELEVISION Trees #1-15, 18, 21-25, 33 & 54-56 CURR & GUTTER. Street trees: #1-9, 15 & 33 PENCE RETAINING WALL KIER & WRIGHT CIVIL ENGINEERS & SURV CONCRETE WALL Onsite trees: #10-14, 18 & 23 NOTES Offsite trees: #21, 22, 24, 25 & 54-56 All distances shown hereon are in feet and decimals thereof. This survey was prepared from information furnished in a Preliminary Title Report, prepared by First American Title Insurance Company, dated November 10, 2010, Onler No. NCS-459721-5C and a Preliminary Title Report, prepared by First American Title Insurance Company, dated June 45, 4013, Order No. NCS-597927-5C, amended updated July 1, 2013, No habitry is assumed for matters of record not stated in said Preliminary Title Reports that may affect the boundary lines, exceptions, or examinents affecting the LINE TABLE: 3. The types, locations, sizes and/or depths of existing underground utilities as shown on this topographic LINE BEARING DISTANCE survey were obtained from sources of varying reliability. The contractor is cautioned that only actual LI N 73'57'07' W 19:72' (IRBI)(7) excavation will reveal the types, extent, sizes, focations and depths of such underground utilities. (A resisonable effort has lieen made to locate and delineate all unknown underground utilities.) However, the engineer can assume no responsibility for the completeness or accuracy of its defineation of such L2 5.73/57/07/E 31.20/ underground utilities which may be encountered, but which are not shown on these drawings. 4. Benchmark: FD brass disk cal, div. of Hwy #L-116 if life pole, #324 opposite 3255 B carrino Real Ely of Hizmen st. Elevation: 34.42' (NGVD-29 Datum) A.P.N.: 182-37-055 6 132-37-056, 132-32-037, 132-32-042, 132-32-041, 132-37-054, 132-37-057, 132-38-043, 132-38-059 (See Parcel Enhibit below) Basis of Bearings:
 The bearing of North 16/03/00" East taken on the centerline of Acada Avenue as shown on that certain Parcel Map filed for record on May 10, 2006 in Book 801 of Maps at Pages 48 & 49, Sonta Clara County Records was:
 REFERENCES 3001 BL CAVINO REAL taken as the Basis of all Bearings shown hereon. TRACE MAP (Nº M 47) RECORD OF SURVEY (6 M 17) PARCEL MAP (407 M 47) The subject property is shown on the Federal Emergency Management Agency Flood Insurance Rate Map, Community Panel Number 060348 0017 H, dated May 18, 2009, as being located in Flood Zone 'X'; PARCEL MAP (801 M 48-49) 461 OUVE AVE GRANT DISED (DOC. NO. 11442168) TRACT MAP ("L" M 12) Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 floor. O GRANT DIED (DOC. NO. 13284066) or with draininge areas less than 1 square mile; and areas of protected levers from 1% aristud chance flood. 1 O 100 00 10 E Corner Record Note:
 The developer and/or contractor shall be responsible for the preparation and filing of pre-construction and post-construction comer records for any monuments or property corners shown hereon that may be destroyed during improvements to the subject property as defined in Section 877100 of the Postessional Land Surveyors Act.

David L. Babby, Registered Consulting Arborist® David L. Babby, Registered Consulting Arborist® David L. Babby, Registered Consulting Arborist® September 23, 2022 September 23, 2022

EXHIBIT C:

PHOTOGRAPHS

(four sheets)

Photo Index

Page C-1: Trees #1 thru 7

Page C-3: Trees #15, 18, 22 thru 25

Page C-2: Trees #8 thru 14

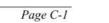
Page C-4: Trees #54 thru 56



3001 & 3017 El Camino Real, Palo Alto Charities Housing













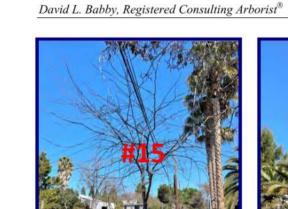


3001 & 3017 El Camino Real, Palo Alto Charities Housing

Page C-2

September 23, 2022

3001 & 3017 El Camino Real, Palo Alto Charities Housing









3001 & 3017 El Camino Real, Palo Alto Charities Housing







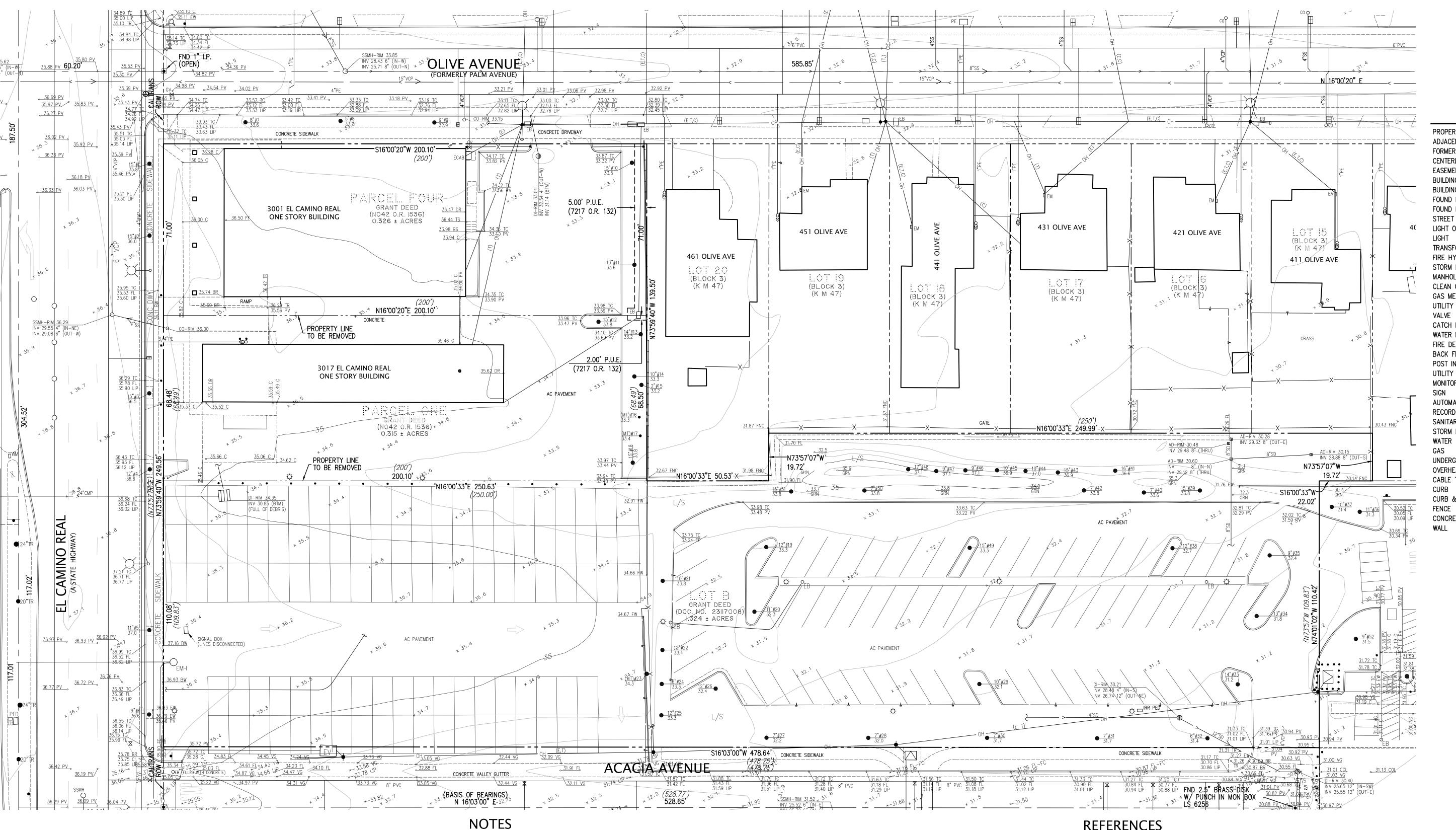


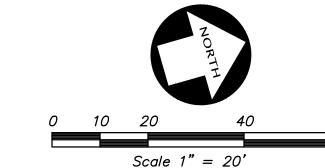


3001 & 3017 El Camino Real, Palo Alto Charities Housing

22203

Page C-3





LEGEND

PROPERTY LINE ADJACENT PROPERTY LINE FORMER LOT LINES CENTERLINE **EASEMENT** BUILDING LINE BUILDING OVERHANG FOUND MONUMENT AS NOTED FOUND IRON PIPE OR AS NOTED STREET LIGHT LIGHT ON UTILITY POLE **TRANSFORMER** FIRE HYDRANT STORM DRAIN MANHOLE MANHOLE CLEAN OUT GAS METER UTILITY POLE WITH GUY CATCH BASIN / DRAIN INLET WATER METER FIRE DEPARTMENT CONNECTION BACK FLOW PREVENTER POST INDICATOR VALVE UTILITY BOX (SIZE VARIES) MONITORING WELL AUTOMATIC SPRINKLER RISER RECORD INFORMATION SANITARY SEWER STORM DRAIN UNDERGROUND ELECTF **OVERHEAD** CABLE TELEVISION CURB & GUTTER CONCRETE

ABBREVIATIONS

ASPHALTIC CONCRETE AREA DRAIN BUILDING BOTTOM OF RAMP BOTTOM BOTTOM OF STEP BACK OF WALK CONCRETE CO CLEAN OUT TO GRADE COLUMN CP CONCRETE PIPE COPPER DROP INLET DOOR EDGE OF PAVEMENT ELECTRIC VAULT EDGE OF WALK FINISH FLOOR FLOW LINE FENCE FACE OF WALL GROUND GAS VALVE INVERT ELEVATION LANDSCAPE

LIP OF GUTTER PAVEMENT

POLYVINYL CHLORIDE PUBLIC UTILITY EASEMENT RIM ELEVATION STREET LIGHT BOX SANITARY SEWER MANHOLE

TOP OF CURB TOP OF RAMP

TOP OF SLAB

VALLEY GUTTER

TOPOGRAPHIC SURVEY

REFERENCES

② RECORD OF SURVEY (6 M 17)

4 PARCEL MAP (801 M 48-49)

⑤ GRANT DEED (DOC. NO. 11442160)

⑦ GRANT DEED (DOC. NO. 13284066)

3 PARCEL MAP (407 M 47)

1 TRACT MAP ("K" M 47)

6 TRACT MAP ("L" M 12)

A10128-10 **AS NOTED**

01/20/2023

C1.0



EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS

TOPOGRAPHIC SURVEY WERE OBTAINED FROM SOURCES

OF VARYING RELIABILITY. THE CONTRACTOR IS

DEPTHS OF SUCH UNDERGROUND UTILITIES. (A

HOWEVER, THE ENGINEER CAN ASSUME NO

SHOWN ON THESE DRAWINGS.

CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL

REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS AND

DELINEATE ALL UNKNOWN UNDERGROUND UTILITIES.)

REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND

RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY

OF ITS DELINEATION OF SUCH UNDERGROUND UTILITIES

WHICH MAY BE ENCOUNTERED, BUT WHICH ARE NOT

4. BENCHMARK: FD BRASS DISK CAL. DIV. OF HWY

5. A.P.N.: 132–37–055, 132–37–056 & 132–38–072

ELEVATION: 34.42' (NGVD-29 DATUM)

REAL E'LY OF HANSEN ST.

6. BASIS OF BEARINGS:

#L-116 @ LITE POLE, #324 OPPOSITE 3255 EL CAMINO

THE BEARING OF NORTH 16°03'00" EAST TAKEN ON THE

CENTERLINE OF ACACIA AVENUE AS SHOWN ON THAT

CERTAIN PARCEL MAP FILED FOR RECORD ON MAY 30,

SANTA CLARA COUNTY RECORDS WAS TAKEN AS THE

2006 IN BOOK 801 OF MAPS AT PAGES 48 & 49,

BASIS OF ALL BEARINGS SHOWN HEREON.

1. ALL DISTANCES SHOWN HEREON ARE IN FEET AND

2. THIS SURVEY WAS PREPARED FROM INFORMATION

JUNE 15, 2018, ORDER NO. NCS-597927-M-SC,

FOR MATTERS OF RECORD NOT STATED IN SAID

BOUNDARY LINES, EXCEPTIONS, OR EASEMENTS

3. THE TYPES, LOCATIONS, SIZES AND/OR DEPTHS OF

UPDATED JUNE 15, 2018. NO LIABILITY IS ASSUMED

PRELIMINARY TITLE REPORTS THAT MAY AFFECT THE

David Baker Architects

FURNISHED IN A PRELIMINARY TITLE REPORT, PREPARED

BY FIRST AMERICAN TITLE INSURANCE COMPANY, DATED

DECIMALS THEREOF.

AFFECTING THE PROPERTY.



7. CORNER RECORD NOTE:

LAND SURVEYORS ACT.

THE DEVELOPER AND/OR CONTRACTOR SHALL BE

RECORDS FOR ANY MONUMENTS OR PROPERTY

RESPONSIBLE FOR THE PREPARATION AND FILING OF

CORNERS SHOWN HEREON THAT MAY BE DESTROYED

DEFINED IN SECTION 8771(B) OF THE PROFESSIONAL

PRE-CONSTRUCTION AND POST-CONSTRUCTION CORNER

DURING IMPROVEMENTS TO THE SUBJECT PROPERTY AS

Santa Clara, California 95054

7. FLOOD ZONE NOTE:

ZONE "X";

FLOOD ZONE "X";

THE SUBJECT PROPERTY IS SHOWN ON THE FEDERAL

EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE

RATE MAP, COMMUNITY PANEL NUMBER 060348 0017

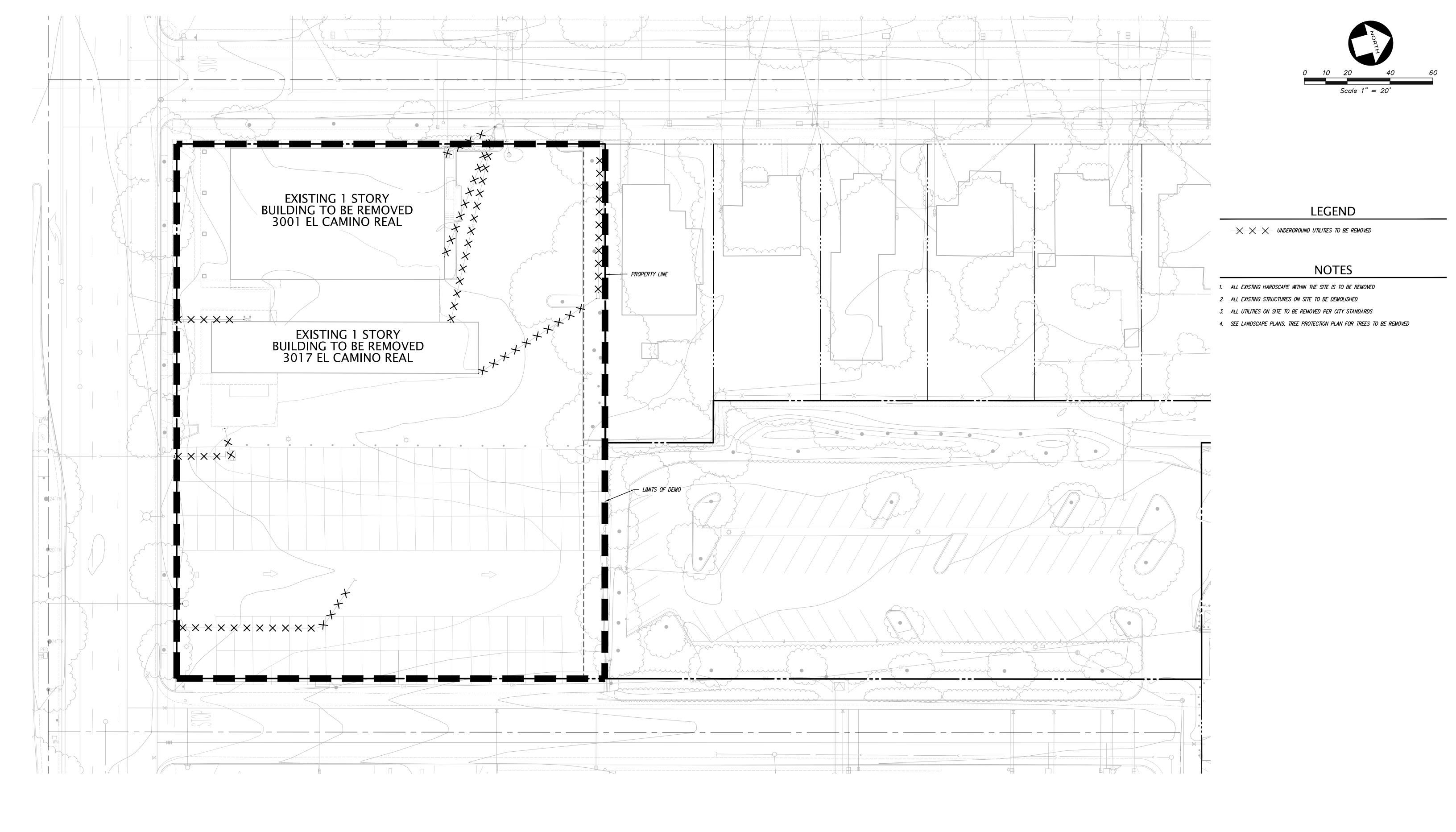
H, DATED MAY 18, 2009, AS BEING LOCATED IN FLOOD

AREAS OF 0.2% ANNUAL CHANCE FLOOD; AREAS OF 1%

ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS OF

THAN 1 SQUARE MILE; AND AREAS OF PROTECTED

LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS

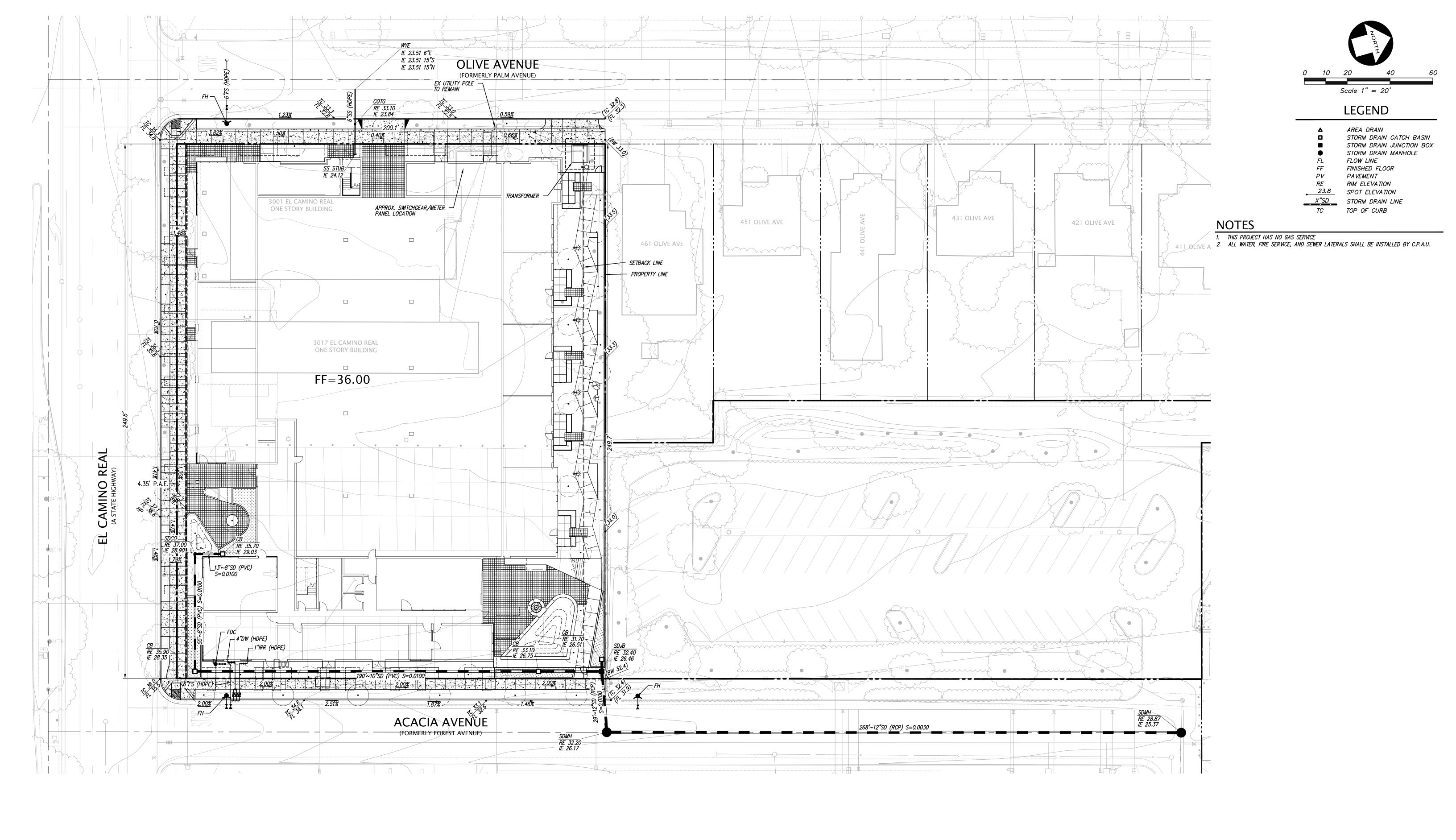










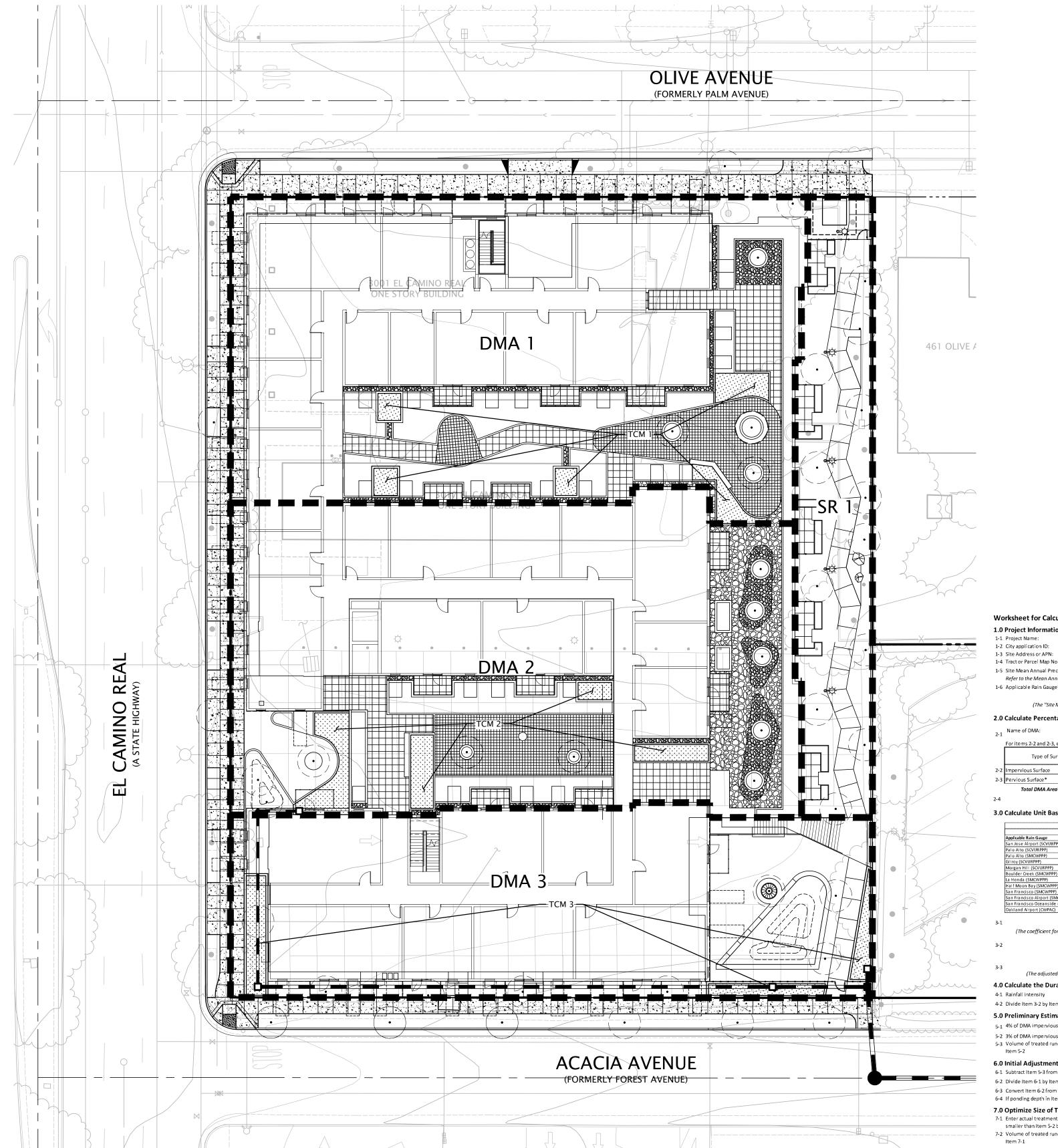












BIOTREATMENT SUMMARY TABLE

AREA	ТСМ	TREATMENT TYPE	TOTAL AREA (SQ. FT.)	TREATMENT AREA REQ. (SQ. FT.)	TREATMENT AREA PROVIDED (SQ. FT.)	PONDING DEPTH (IN.)		
*DMA 1	1	BIOTREATMENT POND	17,000	417	443	6		
*DMA 2	2	BIOTREATMENT POND	16,959	464	614	6		
*DMA 3	3	BIOTREATMENT POND	11,576	275	481	6		

*BIOTREATMENT SIZING BASED ON COMBINATION FLOW-VOLUME METHOD

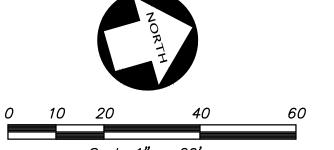
SELF-RETAINING SUMMARY TABLE

AREA	TREATMENT TYPE	TOTAL AREA (SQ. FT.)	IMPERVIOUS AREA (SQ. FT.)	PERVIOUS AREA (SQ. FT.)	PONDING DEPTH (IN.)
SR 1	SELF-RETAINING AREA**	4,428	2,031	2,397	3

**MAXIMUM RATIO OF IMPERVIOUS:PERVIOUS AREA FOR SELF-RETAINING AREAS IS 2:1

STORMWATER CONTROL NOTES

- STORMWATER BEST MANAGEMENT PRACTICES (BMPS) ASSOCIATED WITH REFUSE MANAGEMENT (INCLUDING ACTIONS RELATED TO REFUSE PICK-UP AND THE ENCLOSURE ITSELF) SHALL BE FOLLOWED TO ENSURE POLLUTION PREVENTION AND PREVENTING POTENTIAL DISCHARGES TO THE CITY'S STORM DRAIN SYSTEM. STORMWATER BMPS INCLUDE, BUT ARE NOT LIMITED TO, POWER WASHING THE PAVEMENT ON BOTH THE PRIVATE PROPERTY AND IN THE RIGHT-OF-WAY AND SIDEWALK A MINIMUM OF ONCE PER YEAR BEFORE THE WET SEASON BEGINS ON OCTOBER 1ST; UTILIZING A POWER WASHING CONTRACTOR THAT IS A RECOGNIZED SURFACE CLEANER BY THEBAY AREA STORMWATER MANAGEMENT AGENCIES ASSOCIATION (BASMAA); DISPOSING OF WASH WATER ACCORDING TO THE RECOGNIZED SURFACE CLEANER CERTIFICATION REQUIREMENTS; AND REMOVING ANY POTENTIAL TRASH BUILD-UP ON A REGULAR BASIS.
- 2. FOR ALL C.3 FEATURES, VENDOR SPECIFICATIONS REGARDING INSTALLATION AND MAINTENANCE SHOULD BE FOLLOWED AND PROVIDED TO CITY STAFF. COPIES MUST BE SUBMITTED TO PAM BOYLE RODRIGUEZ AT PAMELA.BOYLERODRIGUEZ@CITYOFPALOALTO.ORG
- 3. STAFF FROM STORMWATER PROGRAM (WATERSHED PROTECTION DIVISION) MAY BE PRESENT DURING INSTALLATION OF STORMWATER TREATMENT MEASURES. CONTACT PAM BOYLE RODRIGUEZ, STORMWATER PROGRAM MANAGER, AT (650) 329-2421 BEFORE INSTALLATION.



LEGEND

TRIBUTARY AREA LIMITS LANDSCAPE AREA

IMPERVIOUS ROOFTOP DRAINING TO BIO-SWALE IMPERVIOUS PAVEMENT DRAINING TO BIO-SWALE

BIO-RETENTION TREATMENT AREA CONCRETE AREA

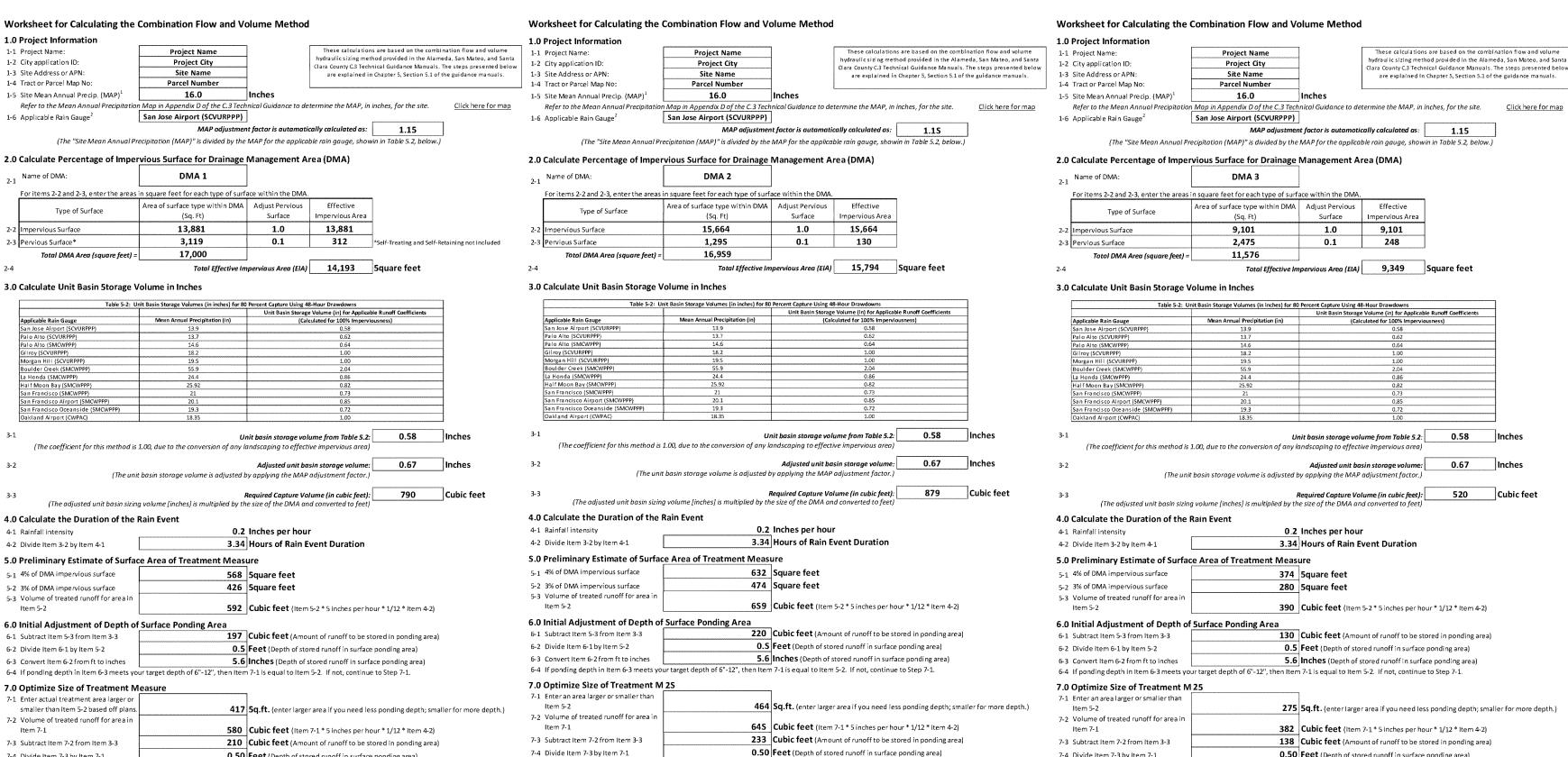
DRAINAGE MANAGEMENT AREA

These calculations are based on the combination flow and volume hydraulic sizing method provided in the Alameda, San Mateo, and Santa

ra County C.3 Technical Guidance Manuals. The steps presented bel

are explained in Chapter 5, Section 5.1 of the guidance manuals

TREATMENT CONTROL MEASURE







7-6 then 11" will be the max ponding depth (slopes >1% will increase the ponding depth by 0.2 inches).

3350 Scott Boulevard, Building 22 Santa Clara, California 95054

7-4 Divide Item 7-3 by Item 7-1

7-5 Convert Item 7-4 from feet to inch

0.50 Feet (Depth of stored runoff in surface ponding area)

If the ponding depth in Item 7-5 meets target, stop here. If not, repeat Steps 7-1 through 7-5 until you obtain target depth. If the slope of the drainage area > 1

6.0 Inches (Depth of stored runoff in surface ponding area)

6.0 Inches (Depth of stored runoff in surface ponding area)

If the ponding depth in Item 7-5 meets target, stop here. If not, repeat Steps 7-1 through 7-5 until you obtain target depth. If the slope of the drainage area > 1%,

7-4 Divide Item 7-3 by Item 7-1

7-5 Convert Item 7-4 from feet to inches

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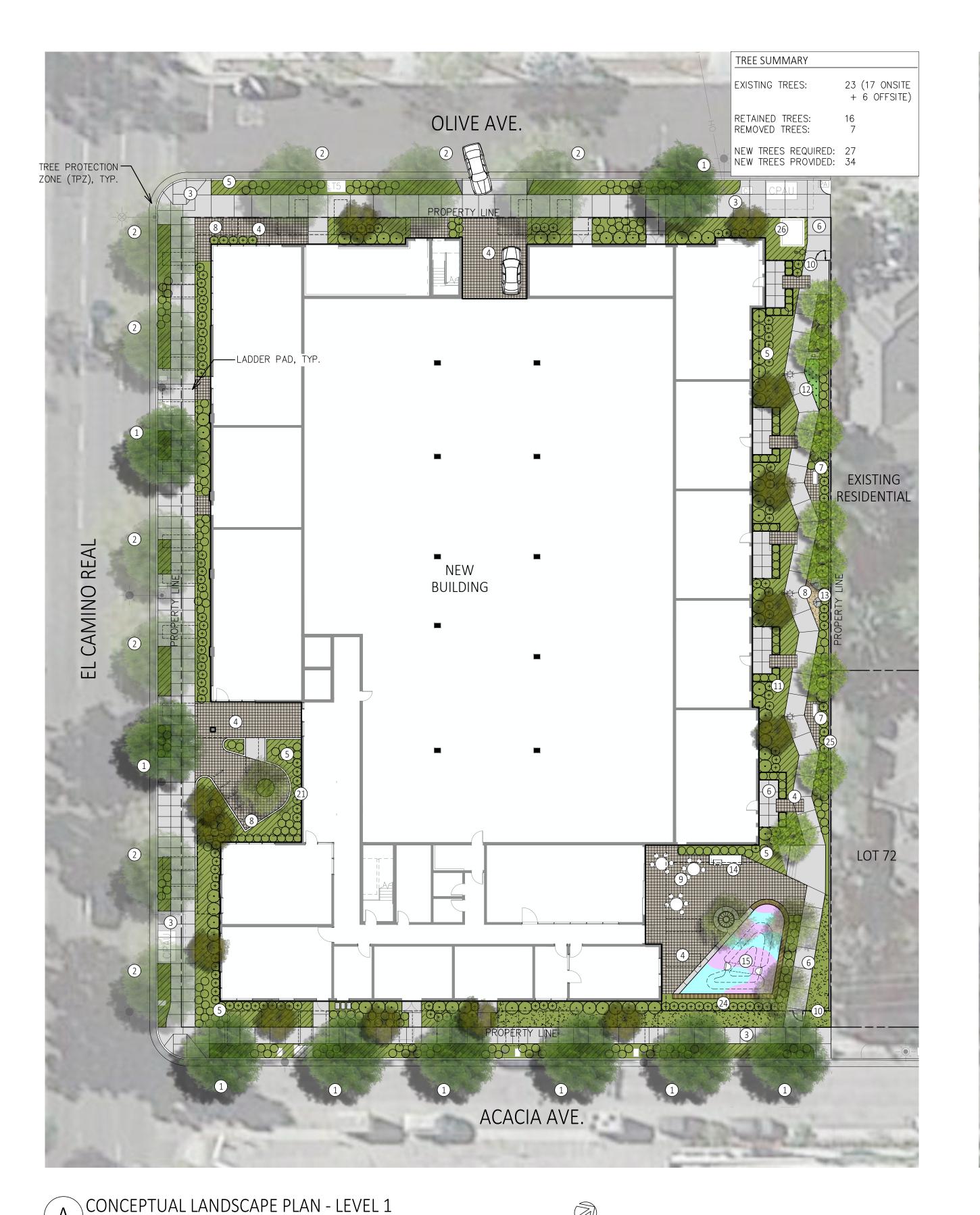
0.50 Feet (Depth of stored runoff in surface ponding area)

If the ponding depth in Item 7-5 meets target, stop here. If not, repeat Steps 7-1 through 7-5 until you obtain target depth. If the slope of the drainage area > 1%,

6.0 Inches (Depth of stored runoff in surface ponding area)

7-6 then 11" will be the max ponding depth (slopes >1% will increase the ponding depth by 0.2 inches)

7-5 Convert Item 7-4 from feet to inch











- 1 NEW STREET TREE, TYP.
- ② EXISTING TREE, TYP. SEE LO02.
- 3 NEW CONCRETE CITY SIDEWALK.
- 4 ENHANCED PAVING: MULTI-COLORED. 5 WATER-WISE LANDSCAPING. SEE PLANT LEGEND ON LO03.
- 6 CONCRETE PAVING.
- 7 DECORATIVE BENCH.
- 8 DECORATIVE BICYCLE RACKS (7 RACKS = 14 SHORT-TERM PARKING).
- (9) PICNIC TABLE AND BENCHES.
- 10 DECORATIVE METAL FENCE. MAX. 6 FT. HEIGHT.
- 11) RAISED METAL PLANTERS AT LEVEL 1 UNIT PATIOS.
- 12) PET-RELIEF AREA.
- (13) LANDSCAPE BOULDERS.
- 14) BBQ COUNTER.
- 15) BERMED PLAY AREA WITH TUNNEL.
- (16) RESIDENT GARDEN AREA.
- (17) RESIDENT SEATING AREA.
- (18) RAISED CONCRETE PLANTER WITH BUILT-IN SEATWALL WITH WOOD
- (19) DECORATIVE LARGE FORMAT ROOF BALLAST PATTERNS.
- (20) RAISED STORMWATER PLANTERS AT PODIUM.
- 21) VERTICAL HANGING GREENERY FROM PLANTER ABOVE.
- 22 DECORATIVE WOOD SEATING WITH SHADE TREE OR TABLE.
- 23) PAVING AT PODIUM.
- (24) SEATWALL WITH WOOD SLATS.
- 25) SOLID PERIMETER FENCE: MAX. 6 FT. HEIGHT.
- 26 TRANSFORMER.

LANDSCAPE DESIGN INTENT

THE LANDSCAPE DESIGN IS INTENDED TO PROVIDE AN ATTRACTIVE AND RESPONSIBLE LIVING ENVIRONMENT FOR THE PROJECT RESIDENTS; AN AESTHETICALLY-PLEASING PLACE TO CALL HOME THAT BOTH THE RESIDENTS AND NEIGHBORS CAN TAKE PRIDE IN

THE LANDSCAPE DESIGN PROVIDES MULTIPLE OUTDOOR SPACES FOR RESIDENTS TO ENJOY. AREAS FOR BOTH PASSIVE AND ACTIVE RECREATION, RELAXATION, AND SOCIALIZATION TAKE ADVANTAGE OF OPENINGS CREATED BY THE BUILDING FORMS.

REPEATING FORMS AND GEOMETRIES PROVIDE A COMMON/COHESIVE LANGUAGE AS ONE MOVES FROM LEVEL-TO-LEVEL AND COURTYARD-TO -COURTYARD WHILE THE UTILIZATION OF WATER-FRIENDLY PLANTINGS WITH VARYING FORMS AND HUES PROVIDES THE VISUAL AND TEXTURAL INTEREST AT A PEDESTRIAN SCALE.

WATER-USE STATEMENT

PROJECT SHALL COMPLY WITH ALL LOCAL AND STATE WATER CODES, INCLUDING AB 1881 (MWELO). IRRIGATION SYSTEM WILL UTILIZE LOW-VOLUME APPLICATIONS METHODS AND EFFICIENT WEATHER-BASED CONTROL TECHNOLOGIES. PLANT SELECTIONS SHALL REFLECT WATER-SAVING GOALS AND BE GROUPED IN SIMILAR HYDROZONES.

BAY-FRIENDLY GUIDELINES (HTTP://RESCAPECA.ORG): - DO NOT USE CHEMICALS FERTILIZERS, PESTICIDES, HERBICIDES OR COMMERCIAL SOIL AMENDMENT. USE ORGANIC MATERIALS REVIEW INSTITUTE (OMRI) MATERIALS AND COMPOST. - AVOID COMPACTING SOIL IN AREAS THAT WILL BE UNPAVED.

FOR GUIDANCE REFER TO THE BAY-FRIENDLY LANDSCAPE GUIDELINES:

HTTP://WWW.STOPWASTE.ORG/RESOURCE/BROCHURES/ BAY-FRIENDLY-LANDSCAPE-GUIDELINES-SUSTAINABLE-PRACTICES-LANDSCAPE-PROFESSIONAL

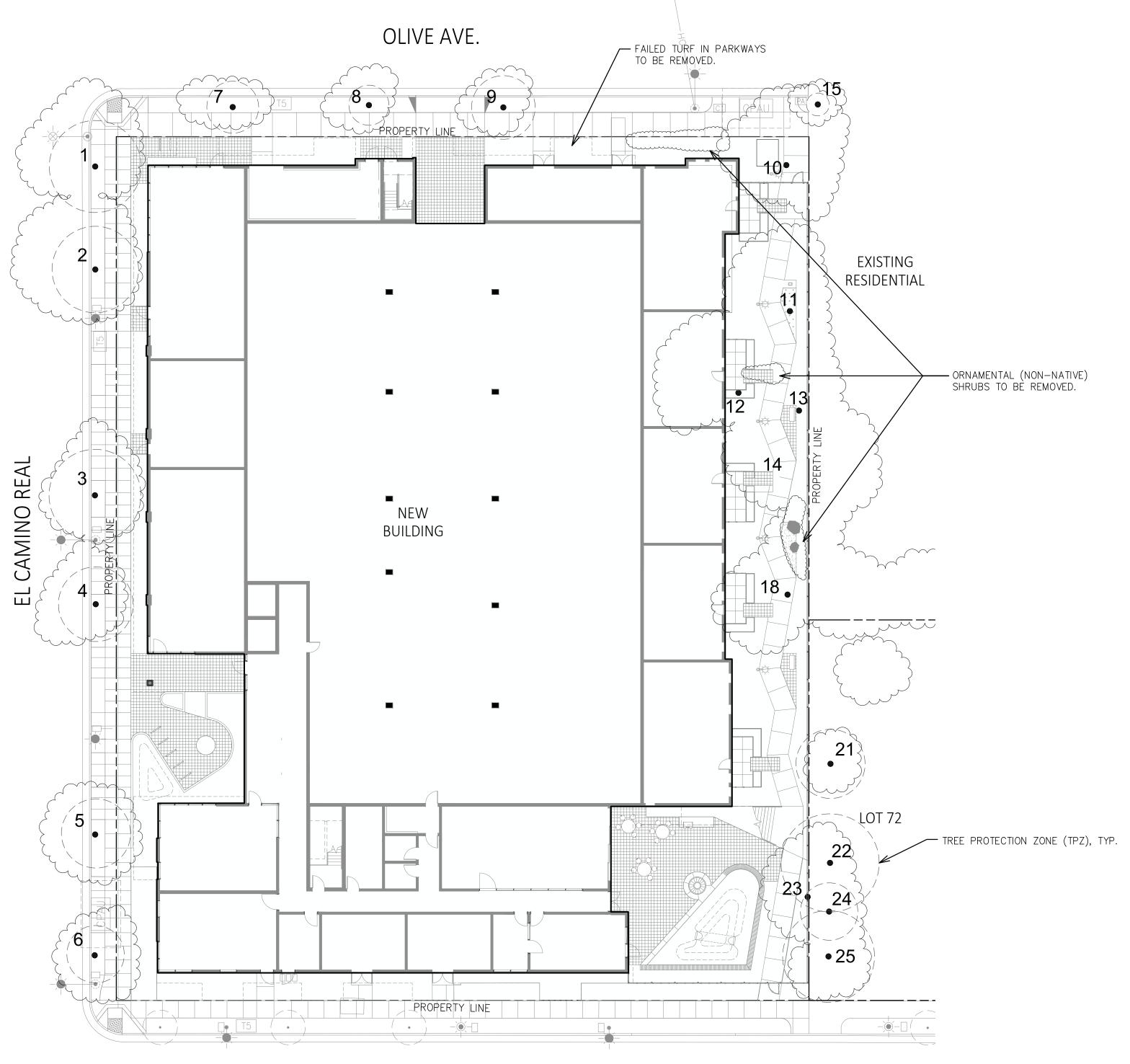
AVOID COMPACTING SOIL IN AREAS THAT WILL BE UNPAVED.

FOR EXISTING TREE PLAN, SEE SHEET L002.



LANDSCAPE ARCHITECTURE





EXISTING TREE LEGEND

#	REMOVE?	SPECIES				
1	NO	LONDON PLANE TREE (PLATANUS X HISPANICA)				
2	NO	LONDON PLANE TREE (PLATANUS X HISPANICA)				
3	NO	LONDON PLANE TREE (PLATANUS X HISPANICA)				
4	NO	LONDON PLANE TREE (PLATANUS X HISPANICA)				
5	NO	LONDON PLANE TREE (PLATANUS X HISPANICA)				
6	NO	LONDON PLANE TREE (PLATANUS X HISPANICA)				
7	NO	LONDON PLANE TREE (PLATANUS X HISPANICA)				
8	NO	LONDON PLANE TREE (PLATANUS X HISPANICA)				
9	NO	LONDON PLANE TREE (PLATANUS X HISPANICA)				
10	YES	ARISTOCRAT CALLERY PEAR (PYRUS C. 'ARISTOCRAT')				
11	YES	ARISTOCRAT CALLERY PEAR (PYRUS C. 'ARISTOCRAT')				
12	YES	ARISTOCRAT CALLERY PEAR (PYRUS C. 'ARISTOCRAT')				
13	YES	PEPPER TREE (SCHINUS MOLLE)				
14	YES	ARISTOCRAT CALLERY PEAR (PYRUS C. 'ARISTOCRAT')				
18	YES	ARISTOCRAT CALLERY PEAR (PYRUS C. 'ARISTOCRAT')				
23	YES	TREE-OF-HEAVEN (AILANTHUS ALTISSIMA)				
15, 21	1, 22, 24, 25	EXISTING, OFFSITE, TO REMAIN. INCLUDED DUE TO PROXIMITY TO PROPOSED DEVELOPMENT.				
EXISTING	XISTING TREE NOTES					

1) PLAN IS BASED ON TREE REPORT PREPARED BY DAVID L. BABBY CONSULTING ARBORIST (PREPARED MARCH 18, 2022). SEE SHEETS T-1 THROUGH T-5.

2) TREE NUMBERING REFLECTS & MATCHES NUMERICAL IDENTIFICATION SYSTEM USED IN THE REPORT REFERENCED ABOVE. 3) REFER TO TREE REPORT FOR DETAILED REVIEW AND ANALYSIS OF EXISTING TREES.

FOR TREE RETAIN/REPLACEMENT SUMMARY, SEE SHEET LO01.

ACACIA AVE.









DECORATIVE WOOD SEATING WITH SHADE TREE OR TABLE



DECORATIVE BICYCLE RACK



ENHANCED PAVING: MULTI-COLORED



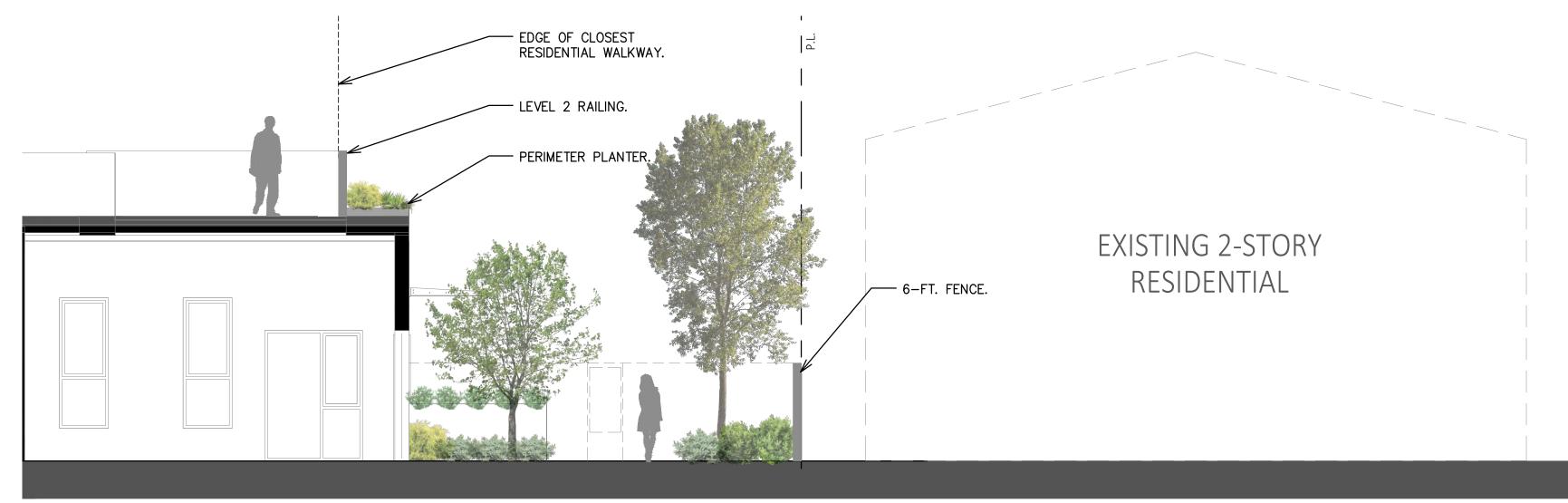
PICNIC TABLES AND BENCHES



BERMED PLAY AREA WITH TUNNEL



DECORATIVE LARGE FORMAT ROOF BALLAST PATTERNS

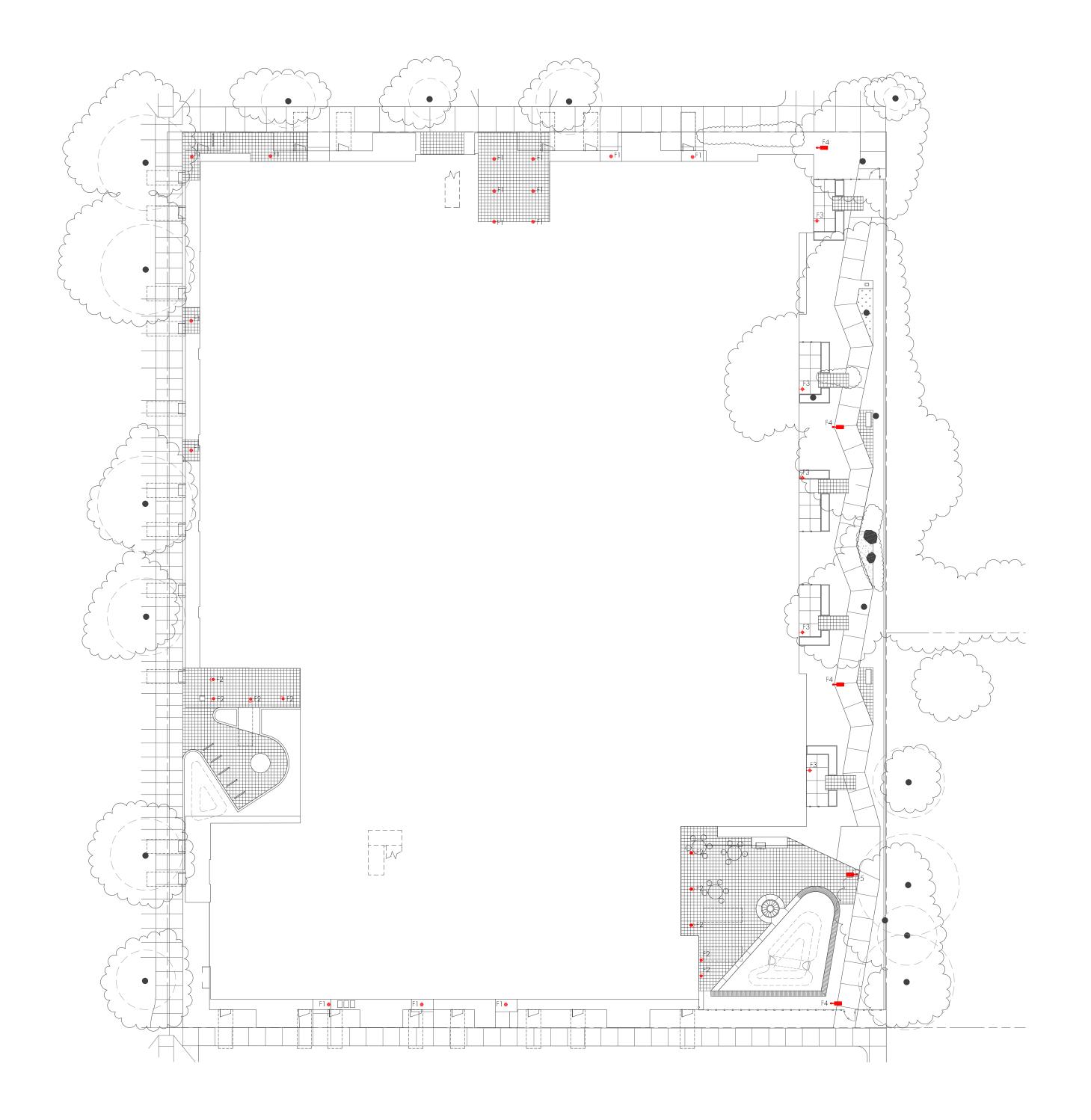


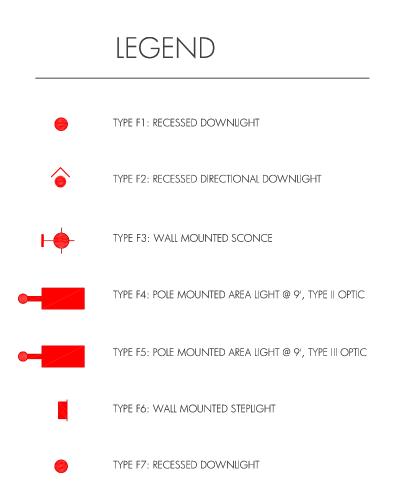
LEVEL 2: CROSS-SECTION SCALE: 3/16" = 1'-0"





SYMBOL	BOTANICAL NAME (COMMON NAME)	MIN.	SIZE	WUCOLS
STREET TREE:	PLATANUS SPP. (LONDON PLANE) TO MATCH EXISTING	36"	вох	MOD
	TO MATCH EXISTING			
COURTYARD A	ACCENT TREES (SUCH AS): CHIONANTHUS RETUSUS	36 "	вох	MOD
	(CHINESE FRINGE TREE)			
	X CHITALPA TASHKENTENSIS 'PINK DAWN' (PINK DAWN CHITALPA)	36″	BOX	LOW
	ZELKOVA SERRATA 'JFS-KW1' (CITY SPRITE ZELKOVA)	36"	BOX	MOD
SMALL ACCEN	NT TREES (SUCH AS):			
	CERCIS CHINENSIS 'AVONDALE' (AVONDALE REDBUD)	24"	BOX	MOD
	LEPTOSPERMUM S. 'PETERSONII' (LEMON SCENTED TEA TREE)	24"	BOX	LOW
	CERCIS CANADENSIS 'TEXAS WHITE' (EASTERN REDBUD)	24"	вох	MOD
EVERGREEN P	PROPERTY LINE TREE (SUCH AS):			
	LYONOTHAMNUS F. SSP. ASPLENIFOLIUS (FERN-LEAF CATALINA IRONWOOD)	24"	BOX	LOW
	TRISTANIOPSIS LAURINA	24"	BOX	MOD
	(WATER GUM) LAURUS NOBILIS 'HUBBARD'	24"	вох	LOW
DROUGHT-TOI	(BAY LAUREL) LERANT PLANTING (SUCH AS):			
	WOODY SHRUBS (SUCH AS):			
	RHAMNUS C. 'EVE CASE'	5	GAL	LOW
	(DWF COFFEEBERRY) WESTRINGIA FRUITICOSA	5	GAL	LOW
	(COAST ROSEMARY)			
(+)	SMALLER ACCENT SHRUBS (SUCH AS): GALVEZIA SPECIOSA 'FIRECRACKER'	5	GAL	LOW
	(FIRECRACKER SNAPDRAGON)			
	YUCCA FILAMENTOSA 'COLOR GUARD' (COLOR GUARD YUCCA)		GAL	LOW
	ALOE 'SAFARI SUNSET' (ALOE SAFARI SUNSET)	5	GAL	LOW
	ACACIA COGNATA 'COUSIN ITT' (LITTLE RIVER WATTLE)	5	GAL	LOW
	PERENNIALS/ORNAMENTAL GRASSES (SUCH	AS):		
	DIANELLA TASMANICA (FLAX LILY)	1	GAL	MOD
	ASPARAGUS D. 'MYERS'	1	GAL	MOD
	(MYER'S FERN) POLYSTICHUM MUNITUM	5	GAL	MOD
	(WESTERN SWORD FERN) HEUCHERA 'WENDY'	1	GAL	MOD
	(WENDY CORAL BELLS) AEONIUM 'MINT SAUCER'		GAL	LOW
	(GREEN AEONIUM)			
	ACANTHUS SPINOSUS (BEAR'S BREECH)	5	GAL	MOD
	LOMANDRA C. 'LITTLE CON' (SMALL MAT RUSH)	1	GAL	LOW
	FESTUCA RUBRA 'MOLATE' (MOLATE RED FESCUE)	1	GAL	LOW
	,			
	GROUNDCOVERS (SUCH AS): DYMONDIA MARGARETAE	1	GAL	LOW
	(SILVER CARPET) ROSEMARINUS OFFICINALIS	1	GAL	LOW
	(PROSTRATE ROSEMARY) MYOPORUM 'PUTAH CREEK'	1	CAL	LOW
	(CREEPING MYOPORUM)		GAL	LOW
	ERIGERION KARVINSKIANUS (MEXICAN DAISY)	1	GAL	LOW
STORMWATER	TREATMENT PLANTINGS (SUCH AS):			
5 215	CAREX PANSA (DUNE SEDGE)	1 G		MOD
	CAREX DIVULSA (BERKELEY SEDGE)	1 G	AL	LOW
	JUNCUS PATENS (CALIFORNIA GREY RUSH)	1 G	AL	LOW
	CHONDROPETALUM TECTORUM	1 G	AL	LOW
VINES (SUCH	(SMALL CAPE RUSH)			
AUAFO (OOCU	BIGNONIA CAPREOLATA	15 (^ A I	MOD
	(CROSS VINE)	15	JAL	MOD



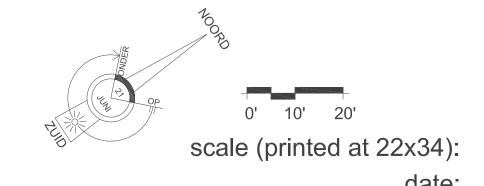


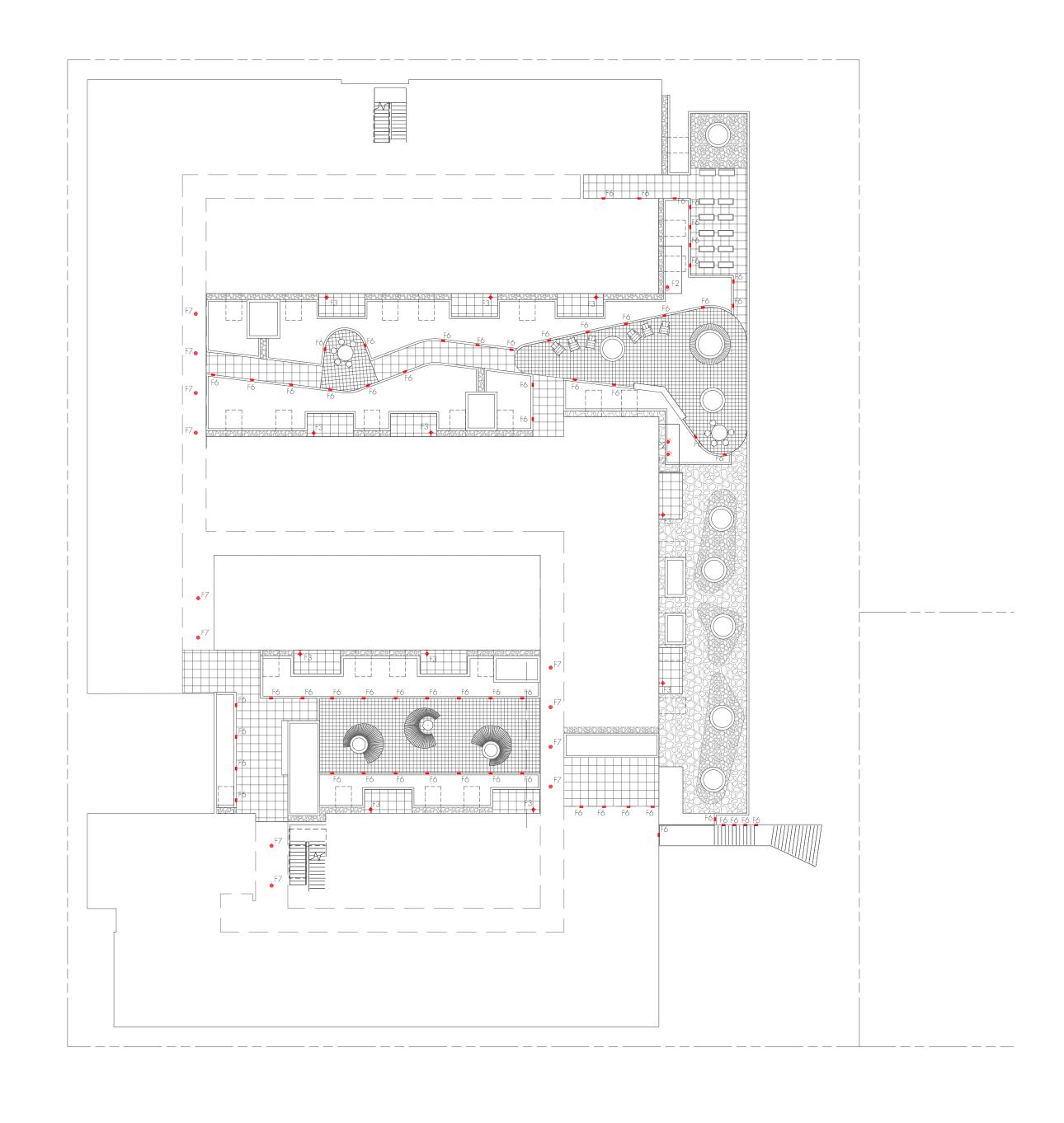


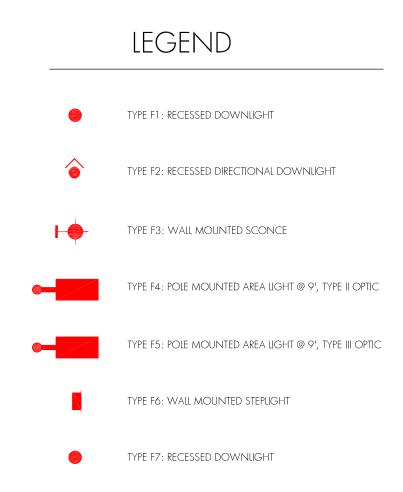










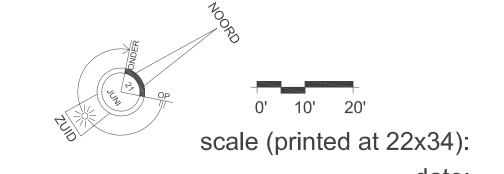


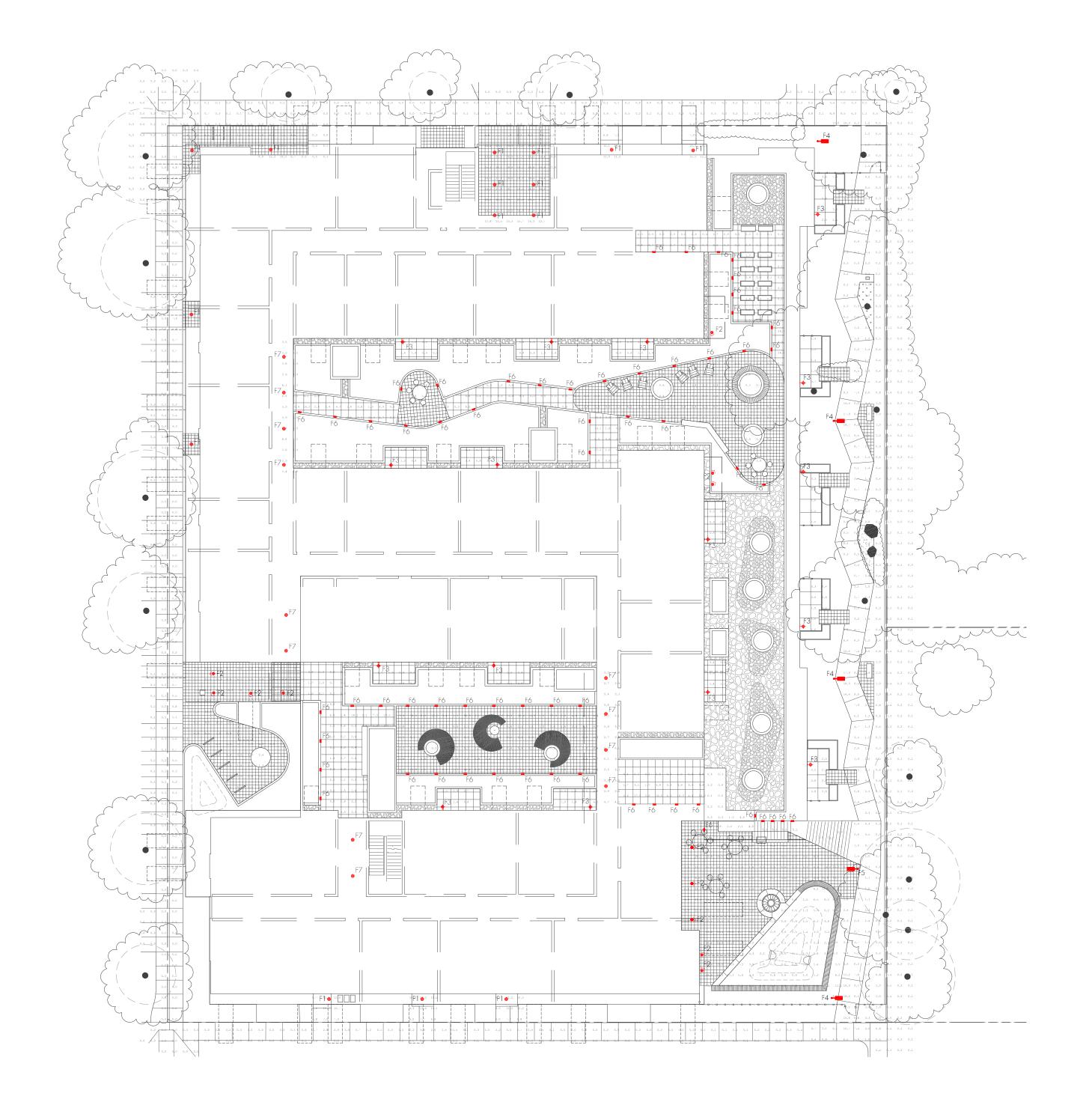








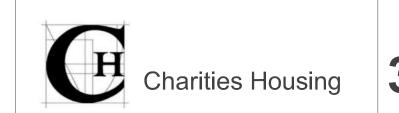




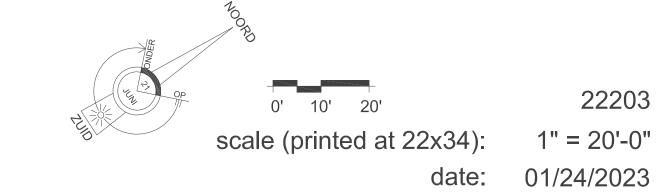










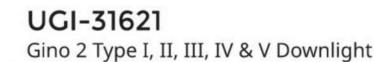


22203





TYPE F2







Surge Suppression

improve paint adherence.

and baked at 200 Deg C.

Stainless steel.

moisture.

glass tinge.

Optics & LED

original flux)

with all fixtures.

BUG Rating B0 - U0 - G0

Finishing

Standard 10kv surge suppressor provided

All Ligman products go through an extensive

UV Stabilized 4.9Mil thick powder coat paint

This process ensures that Ligman products

can withstand harsh environments.

Hardware Provided Hardware is Marine grade 316

apped holes are infused with a special anti

seize compound designed to prevent seizure

of threaded connections, due to electrolysis from heat, corrosive atmospheres and

Provided with tempered, impact resistant

Precise optic design provides exceptional

light control and precise distribution of light.

L80 /B10 at 50,000 hours (This means that at least 90% of the LED still achieve 80% of their

crystal clear low iron glass ensuring no green

Crystal Clear Low Iron Glass Lens

Lumen - Maintenance Life

Rated for use in natatoriums.

Anti Seize Screw Holes

finishing process that includes fettling to

Façade-mounted building and area lighting range. Sleek, compact and expansive luminaire family with lighting packages and optics to address any need.

mounted luminaires with options of upward or downward light distributions. Ideally suited to 8 step degrease and phosphate process that illuminate the wall and surfaces in front of wall and efficiency LED's. The Gino is suitable for indoor and outdoor applications and provides a clean, visually appealing solution for small, unobtrusive wall mounted luminaires.

> This luminaire is available in 2 different sizes and in combinations of down, up or up/down light distributions. The Gino 1 and Gino 2 have a decorative spike option for added lighting effects. The Gino 1 and 2 mounts over a 3" octagonal junction box, a 4" j-box cover plate is available upon request. Clear lens standard.



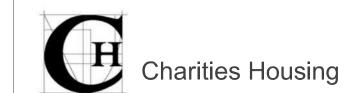


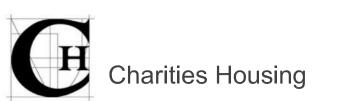


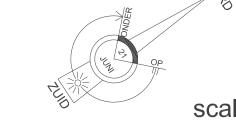
TYPE F3



TYPE F1







Light Linear PT 8 Single Head Streetlight

5w LED

93 Lumens

PA - 0.50

m:

Ø 3.5"x6"∠

TECHNOLOGY

hybrid distributions for precise lighting requirements.

Type IV

to interchange, mix & rotate optics to provide specific light distributions for optimized spacing and uniformity.

eight 52.4 lbs







Less than 0.1% copper content - Marine Grade 6060 extruded & LM6 Aluminum High Pressure die casting provides excellent lines and excellent heat dissipation.

8 step degrease and phosphate process that light distribution requirements. includes deoxidizing and etching as well as a zinc and nickel phosphate process before product painting.

Memory Retentive -Silicon Gasket rovided with special injection molded "fit for the factory for more information. purpose" long life high temperature memory retentive silicon gaskets. Maintains the gaskets exact profile and seal over years of use and compression.

Thermal management LM6 Aluminum is used for its excellent mechanical strength and thermal dissipation properties in low and high ambient emperatures. The superior thermal heat sink design by Ligman used in conjunction with the driver, controls thermals below critical temperature range to ensure maximum luminous flux output, as well as providing long LED service life and ensuring less than 10% lumen depreciation at 50,000

Surge Suppression Standard 10kv surge suppressor provided with all fixtures.

BUG Rating

All Ligman products go through an extensive finishing process that includes fettling to improve paint adherence.

UV Stabilized 4.9Mil thick powder coat paint and baked at 200 Deg C. This process ensures that Ligman products can withstand harsh environments. Ligman's micro Variable Optical System provides the ability Rated for use in natatoriums.

> Provided Hardware is Marine grade 316 Stainless steel.

Anti Seize Screw Holes Tapped holes are infused with a special anti eize compound designed to prevent seizure of threaded connections, due to electrolysis from heat, corrosive atmospheres and

Crystal Clear Low Iron Glass Lens Provided with tempered, impact resistant crystal clear low iron glass ensuring no green The variable optic system allows for the designer to create glass tinge.

> Optics & LED Precise optic design provides exceptional light control and precise distribution of light.

Lumen - Maintenance Life L80 /B10 at 50,000 hours (This means that at least 90% of the LED still achieve 80% of their original flux)

Public realm contemporary column family. Stylish but technically precise area lighting solutions as part of a

large flexible family. Light Linear PT is an elegant minimalistic lighting column that is suitable for both modern and classic architecture. Ideal for mechanical strength, clean detailed product creating visual guidance with exceptional visual comfort. The dual sealed optical chamber with integrated heat sinks houses a range of field interchangeable optically controlled LED's, providing Type II, III, IV & V distribution, as well as variations of this for precise

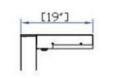
> An example of this, is using a combination of Type II and Type IV distribution optics inside the same fixture. This product range is available in 54w, 80w, 106w & 152w options, as a single & double head styles. Customer specific wattages can be provided, contact

This luminaire complies to Dark Sky requirements. The sleek and minimalistic shape provides distinctive lighting effects by night and decorative urban effect during the day. Suitable for use in pedestrian precincts, building surrounds, shopping centers, squares, parks and parking lots.

This product range is complemented with high performance optics in the bollard and wall mounted luminaires, to provide a consistent range of design aesthetics for the project. See website or more information. Poles can be provided with GFCI boxes positioned to specific heights specified by the customer. A flat low profile hand hole cover with vandal resistant screws is provided for easy installation.

Internal house side shields are available as an option. Available with a selection of integral electronic drivers and dimming electronic drivers as well as a provision to install wireless lighting controls to integrate with building management systems, as well as pole mounted occupancy sensors (contact the factory for more information] Easy access to the luminaire for maintenance. (WATT-ADJ) This luminaire is provided with a programmable driver so that specific wattage requirements can be achieved. These settings are done at the factory during assembly. (See

ditional Options (Consult Factory For Pricing)











URA-40581 Rado 5 Recessed

Ligman LIGHTING USA

Sturdy classic wall-recessed pathway and stair

applications. The recessed LED eliminates all discomfort

A range of rectangular and square wall recessed

tion where it is needed and minimizing light spill.

This luminaire is provided with a powdercoated high

pressure die-cast aluminum back box and can be pre

shipped to the jobsite for concrete pour or masonry

This fixture is suitable for lighting footpaths, stairs,

The Rado range has a matching bollard offering to

complement the recessed product. See bollard section on

All Ligman fixtures can be manufactured using a special

fixture can be installed in natatoriums as well as environ-

ments with high concentrations of chlorine or salt and

rated process please specify NAT in options.

Memory Retentive -Silicon Gasket
Provided with special injection molded "fit for purpose" long life
glare as light is directed to the ground providing illumina-

applications.

squares and entrances.

the Ligman website.

luminaire. Simple pleasing aesthetic and sturdy

Aluminum Casting
Less than 0.1% copper content - Marine Grade 6060 extruded & construction, perfect for retrofit applications LM6 Aluminum High Pressure die casting provides excellent mechanical strength, clean detailed product lines and excellent with its multiple sizes offered.

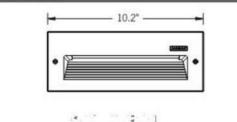
igh temperature memory retentive silicon gaskets. Maintains

he gaskets exact profile and seal over years of use and

Surge Suppression
Standard 10kv surge suppressor provided with all fixtures.

B step degrease and phosphate process that includes deoxidizing and etching as well as a zinc and nickel phosphate process before product painting.

A large of rectangular and square wants seems for luminaires, with an indirect optical system, offering high vandal resistance. Suitable for indoor or outdoor applications. The recessed LED eliminates all discomfort 11w LED 319 Lumens • 17w LED 447 Lumens IP65 • Suitable For Wet Locations LM6 Aluminum is used for its excellent mechanical strength and thermal dissipation properties in low and high ambient temperatures. The superior thermal heat sink design by Ligman used in conjunction with the driver, controls thermals below critical temperature range to ensure maximum luminous flux output, as well as providing long LED service life and ensuring less than 10% lumen depredation at 50,000 hours. Weight 3 lbs



Einishing
All Ligman products go through an extensive finishing process that includes fettling to improve paint adherence.

All Ligman products go through an extensive finishing process that ensures the fixture can be installed in natatoriums as well as environment. Deg C. This process ensures that Ligran products can withstand harsh environments. Rated for use in natatoriums. Inspired by Nature Finishes

The Inspired by nature Finishing is a unique system of decorative powder coating. Our metal decoration process can easily transform the appearance of metal or aluminum product into a wood grain finish.

his patented technology enables the simulation of wood grain, and even marble or granite linish through the use of decorative The wood grain finish is so realistic that it's almost indistinguishable from real wood, even from a close visual ispection. The system of coating permeates the entire hickness of the coat and as a result, the coating cannot be emoved by normal rubbing, chipping, or scratching.

a specially formulated polyurethane powder. This powder provides protection against wear, abrasion, impact and

he component is then wrapped with a sheet of non-poror

of any sort. There are over 300 combinations of designs currently in use. Wood grains can be made with different colors, designs, etc. Our powder coatings are certified for indoor and outdoor applications and are backed by a comprehensive warranty. These coatings rise to the highest conceivable standard of nerformance excellence and design innovation.

Resistance to salt-acid room, accelerated aging Boiling water, lime and condensed water resistant
 Anti-Graffiti, Anti-Slip, Anti-Microbial, Anti-Scratch

Anti Seize Screw Holes
Tapped holes are infused with a special anti seize compound
designed to prevent seizure of threaded connections, due to
electrolysis from heat, corrosive atmospheres and moisture. rystal Clear Low Iron Glass Lens ded with tempered, impact resistant crystal clear low iron lass ensuring no green glass tinge.

Optics & LED
Precise optic design provides exceptional light control and precise distribution of light. LED CRI > 80

power no greater than 15 nanometers.

CITY OF FLAGSTAFF & TURTLE FRIENDLY COMPLIAN

<u>Hardware</u> Provided Hardware is Marine grade 316 Stainless steel.

Narrow-Spectrum Amber LEDs Peak wavelength between 585 & 595 nanometers and a full width of 50%

TYPE F6 TYPE F4/F5

TYPE F7

for most 4" junction box

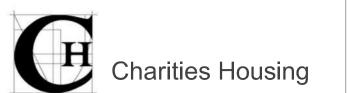


RBS7	10	CTS	2	w
Series	Lumens	Color Temperature	Voltage	Finish
857 - 7" Builder Plus LED Surface Luminaire	10 - 1000 im	CTS - Color temperature shift (2700K, 3000K, 3500K)	2 - 277V (0-10V Dimming)	W - White

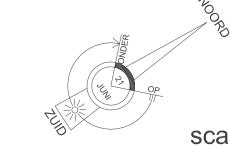
			_
RAYON	www.rayonlighting.com	tel: 323.446.2626	
RA UN	info@rayonlighting.com	fax:323.446.2606	

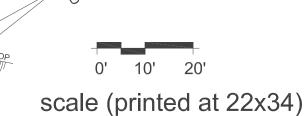
Specification and product availability subject to change without notice

07/20









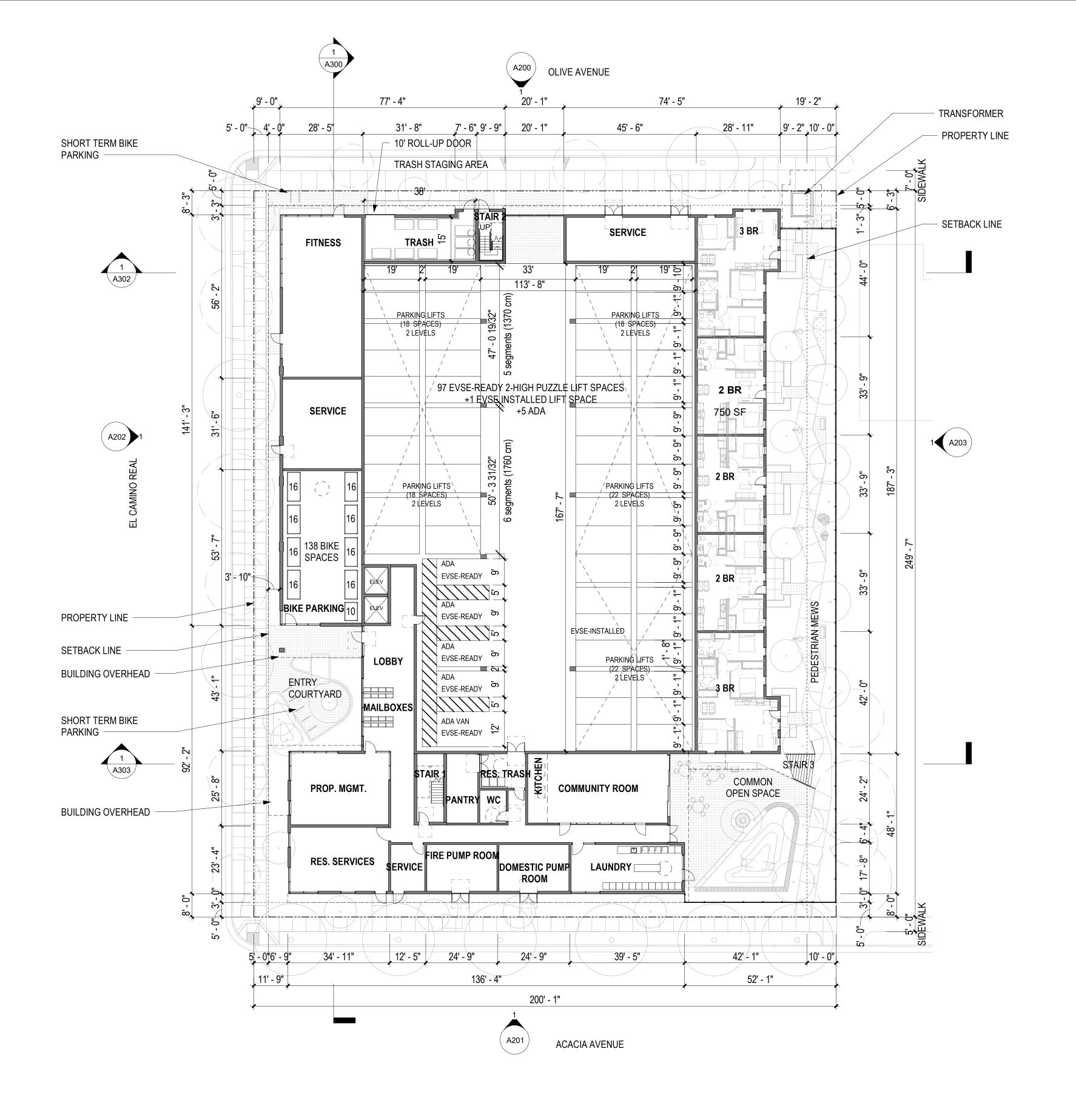
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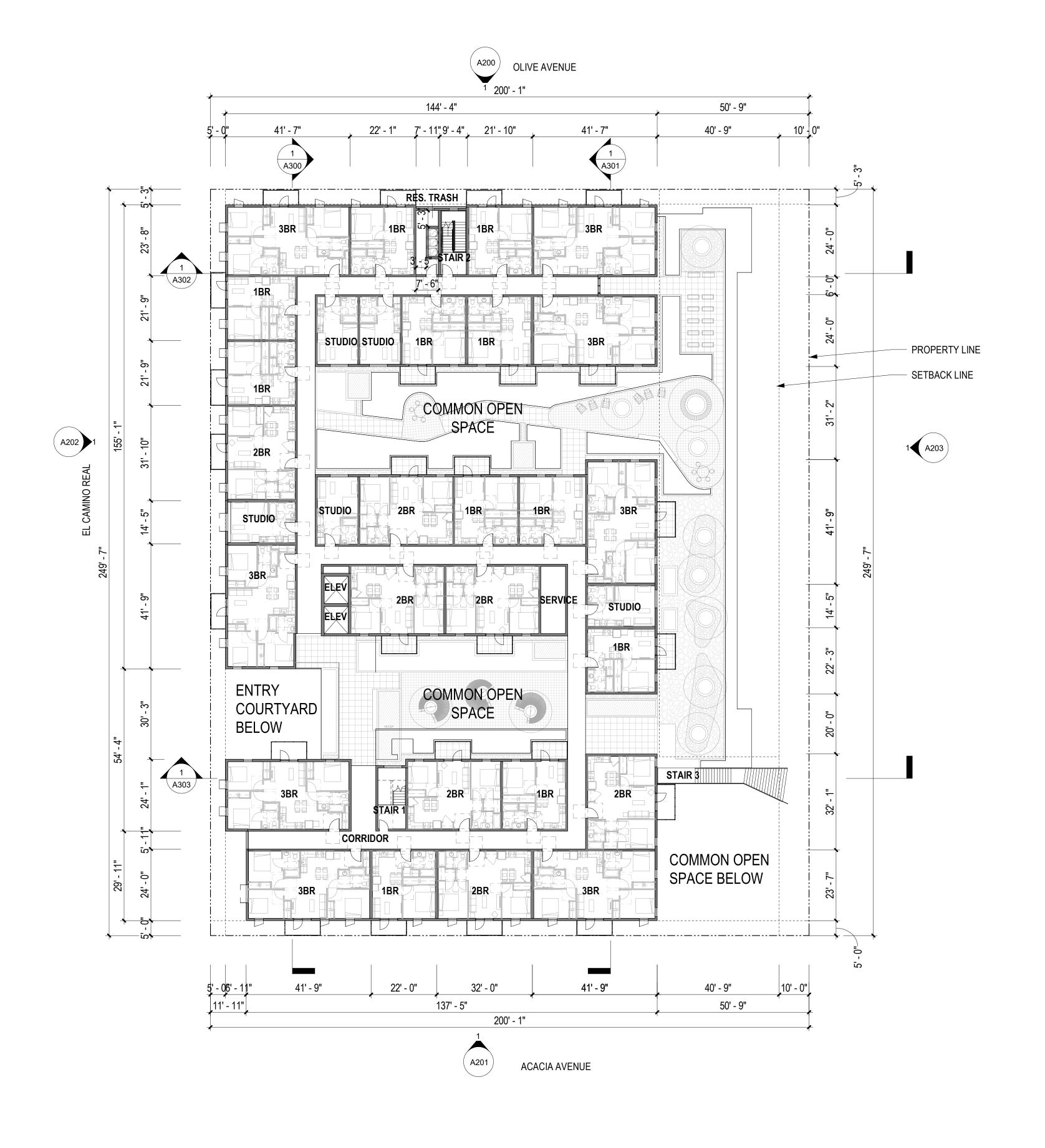


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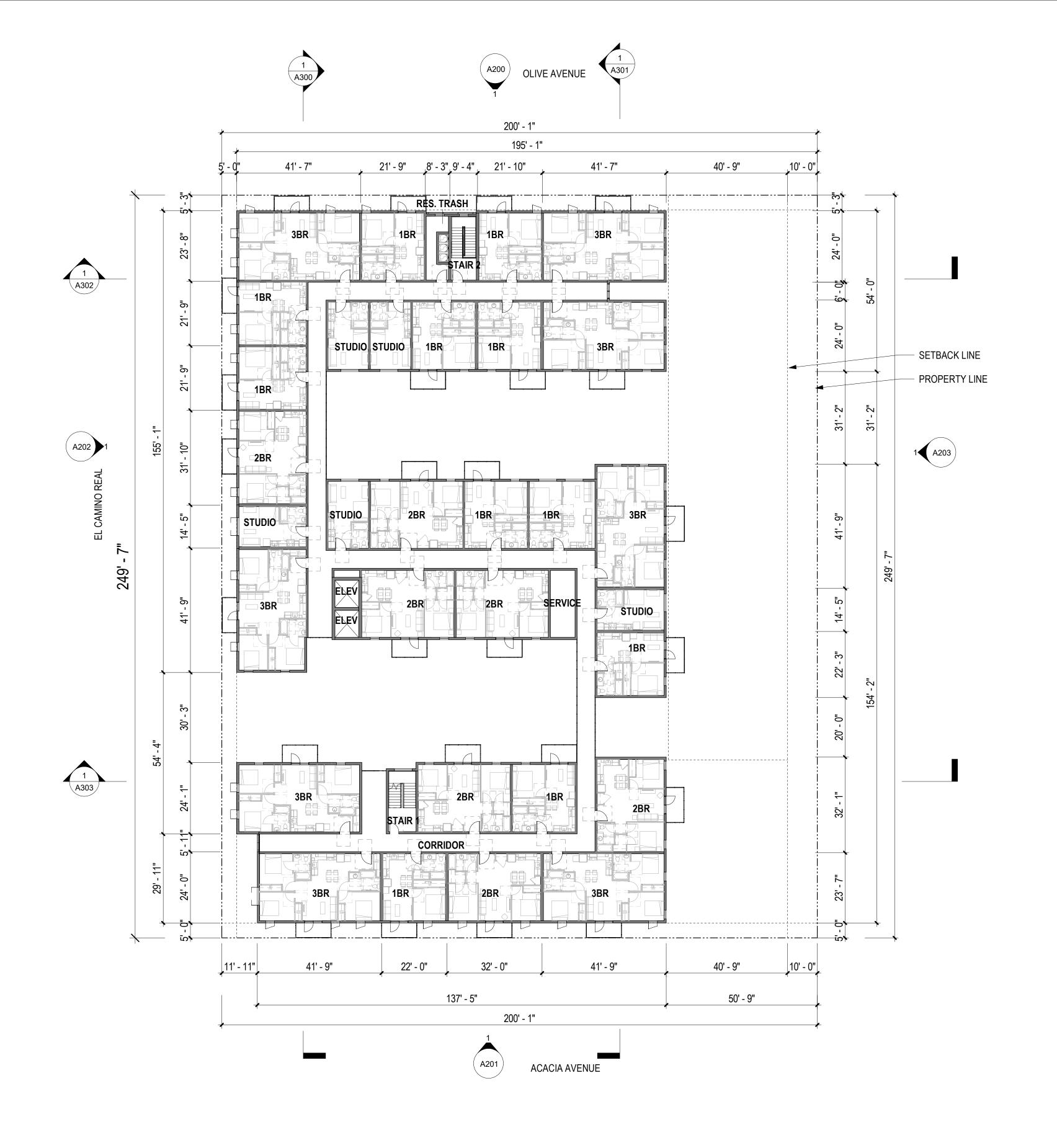




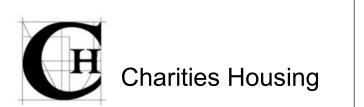




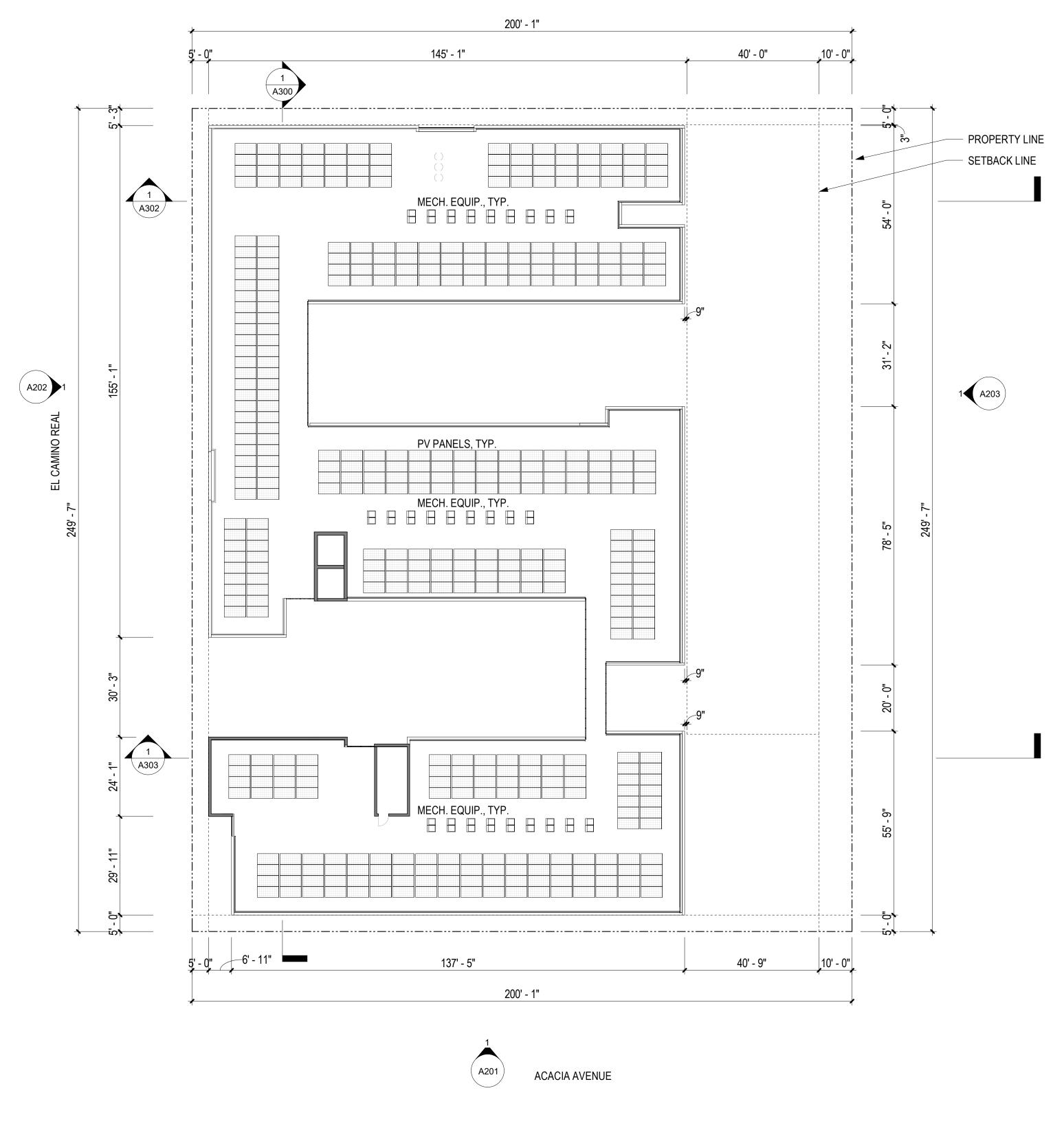
















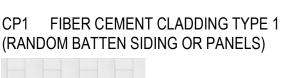




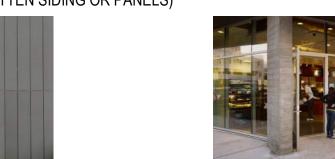
C-1 CONCRETE











CP2 FIBER CEMENT CLADDING TYPE 2 GL-1 STOREFRONT GLAZING MT1 METAL RAILING



MT2 METAL RAILING PERFORATED



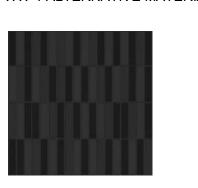
MT2 METAL SUNSHADE



WD-1 WOOD SIDING



WW-1 ALTERNATIVE MATERIAL















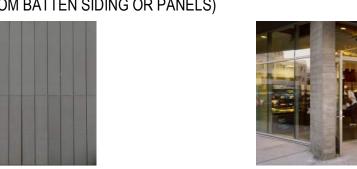
C-1 CONCRETE



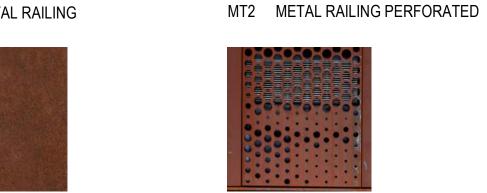








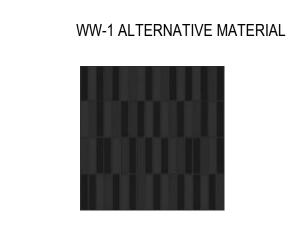
















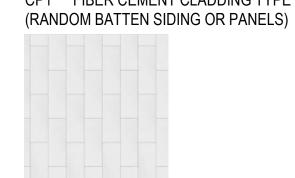


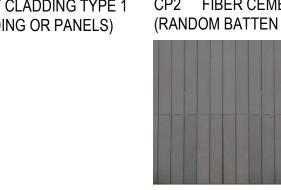


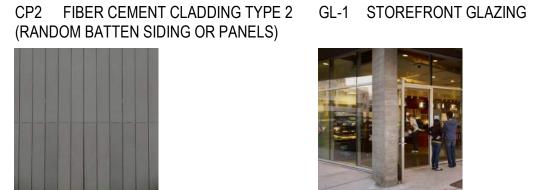


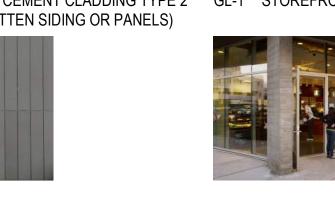




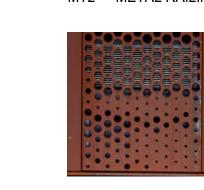






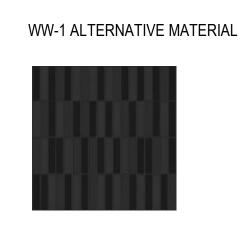


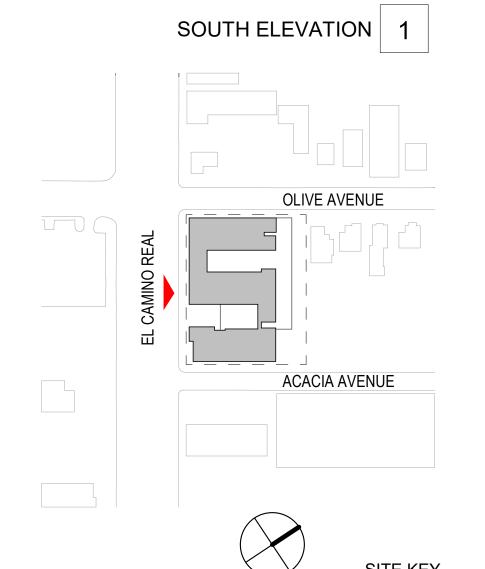












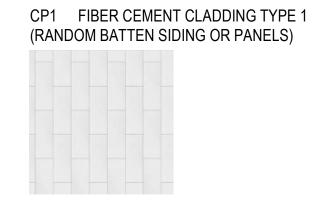


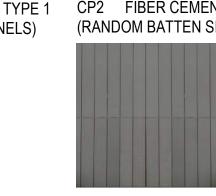




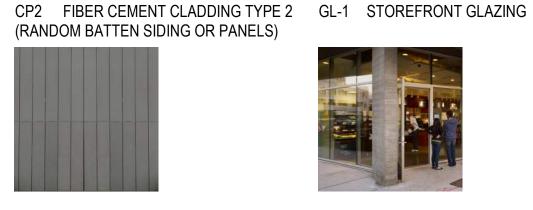










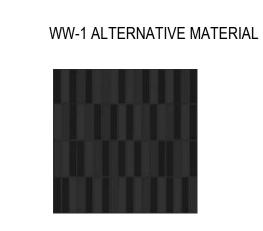


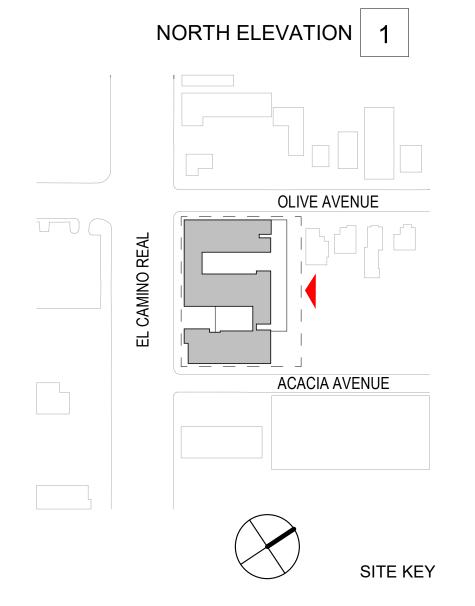






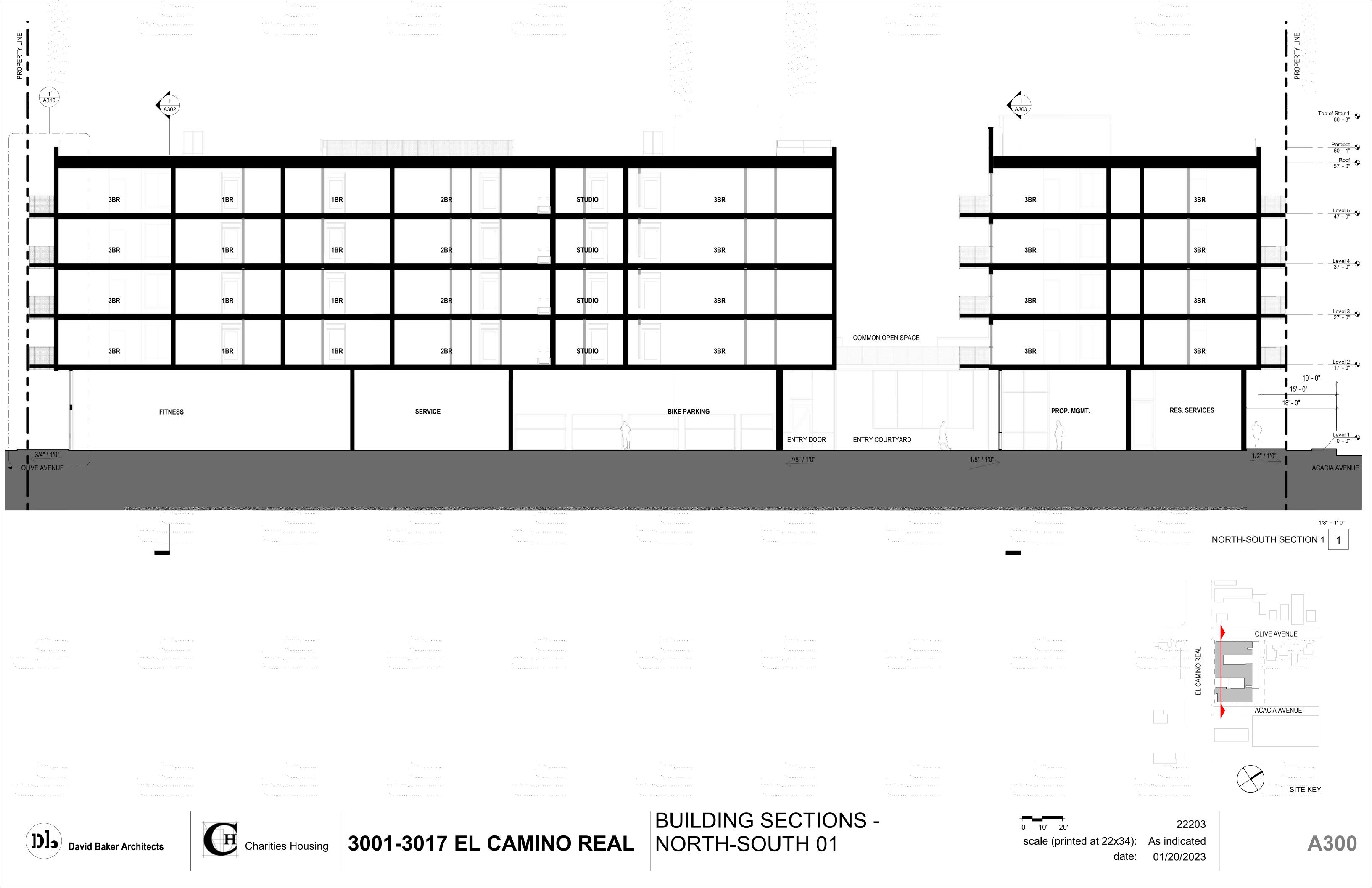


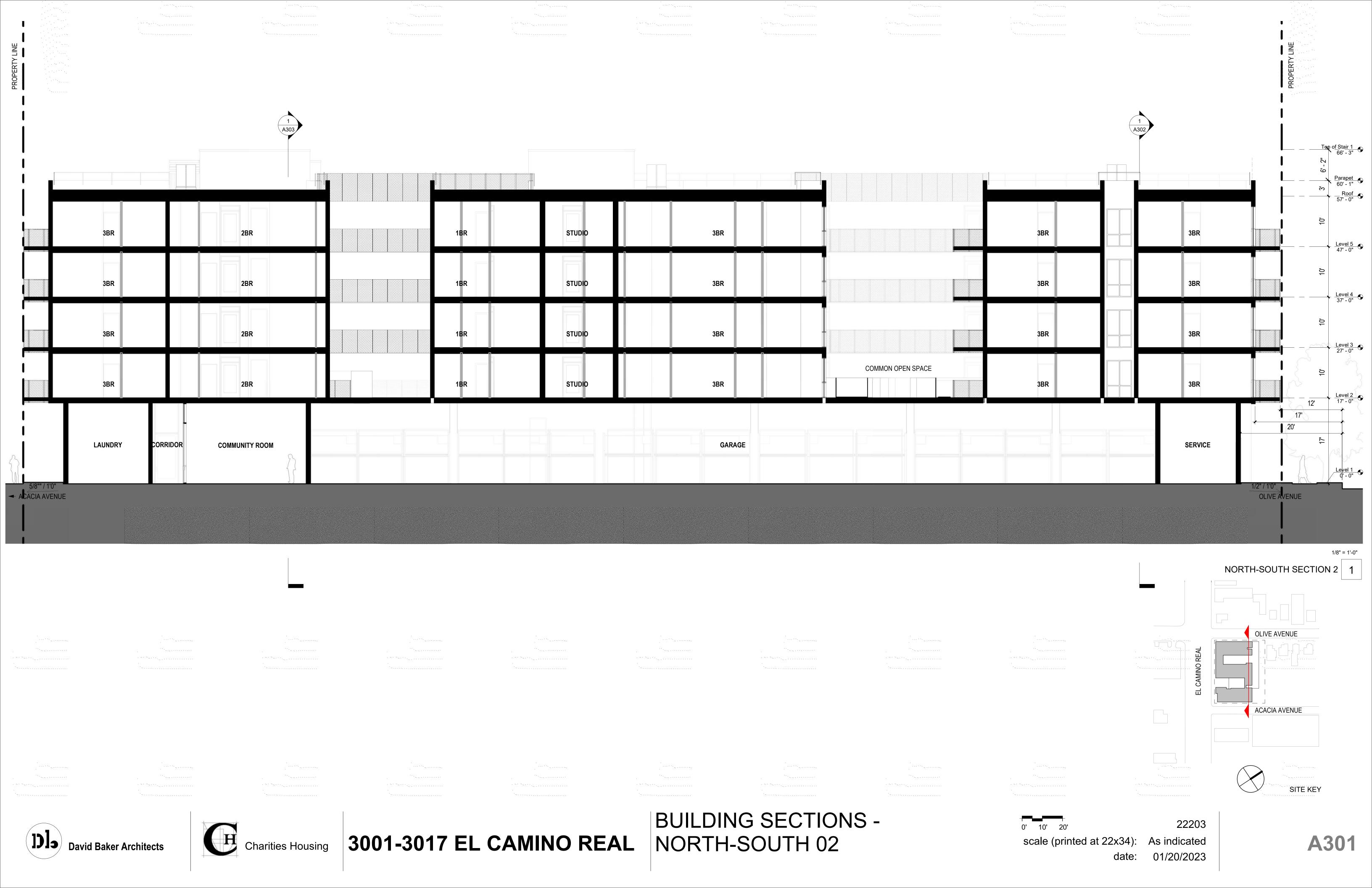


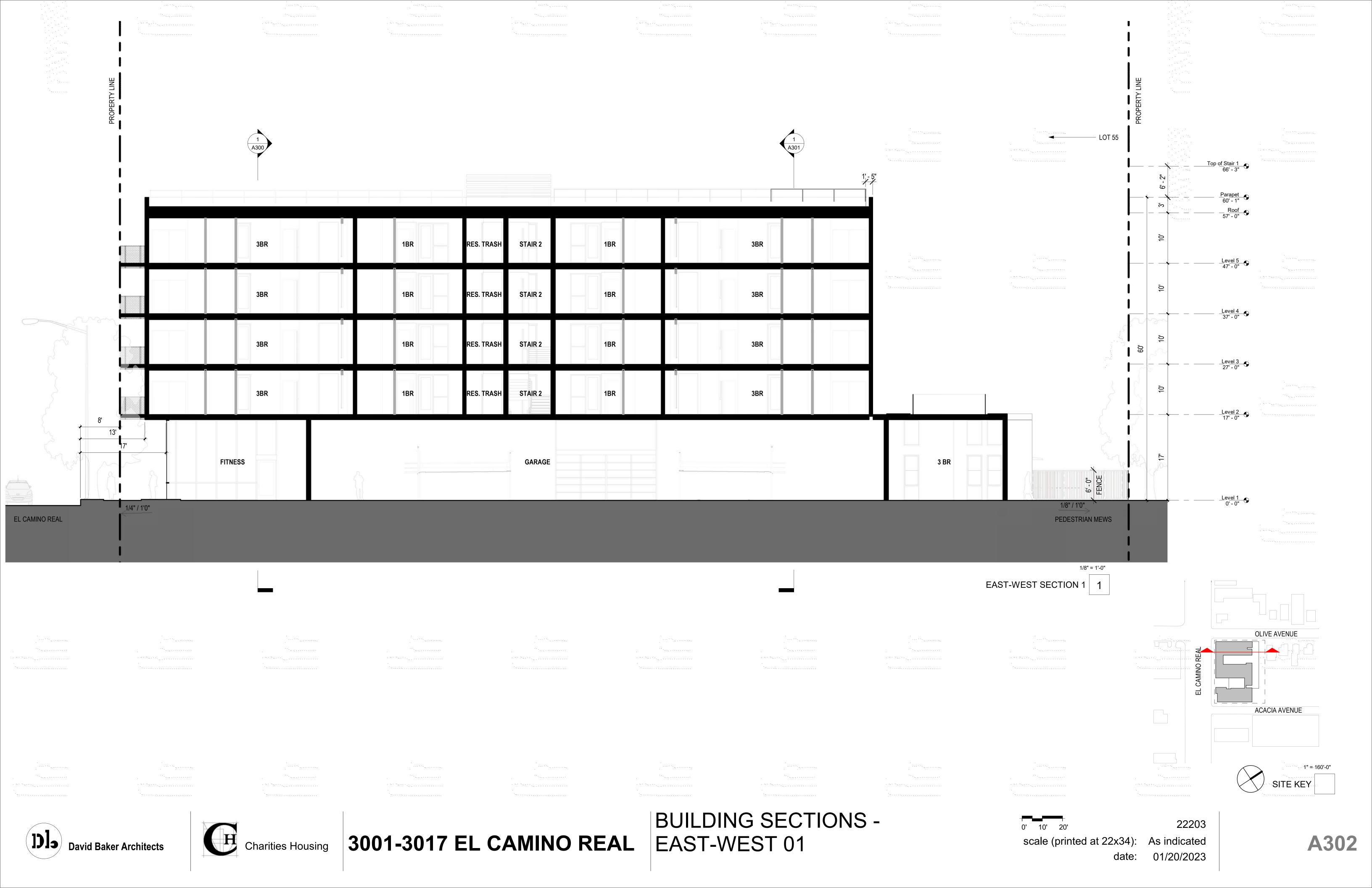


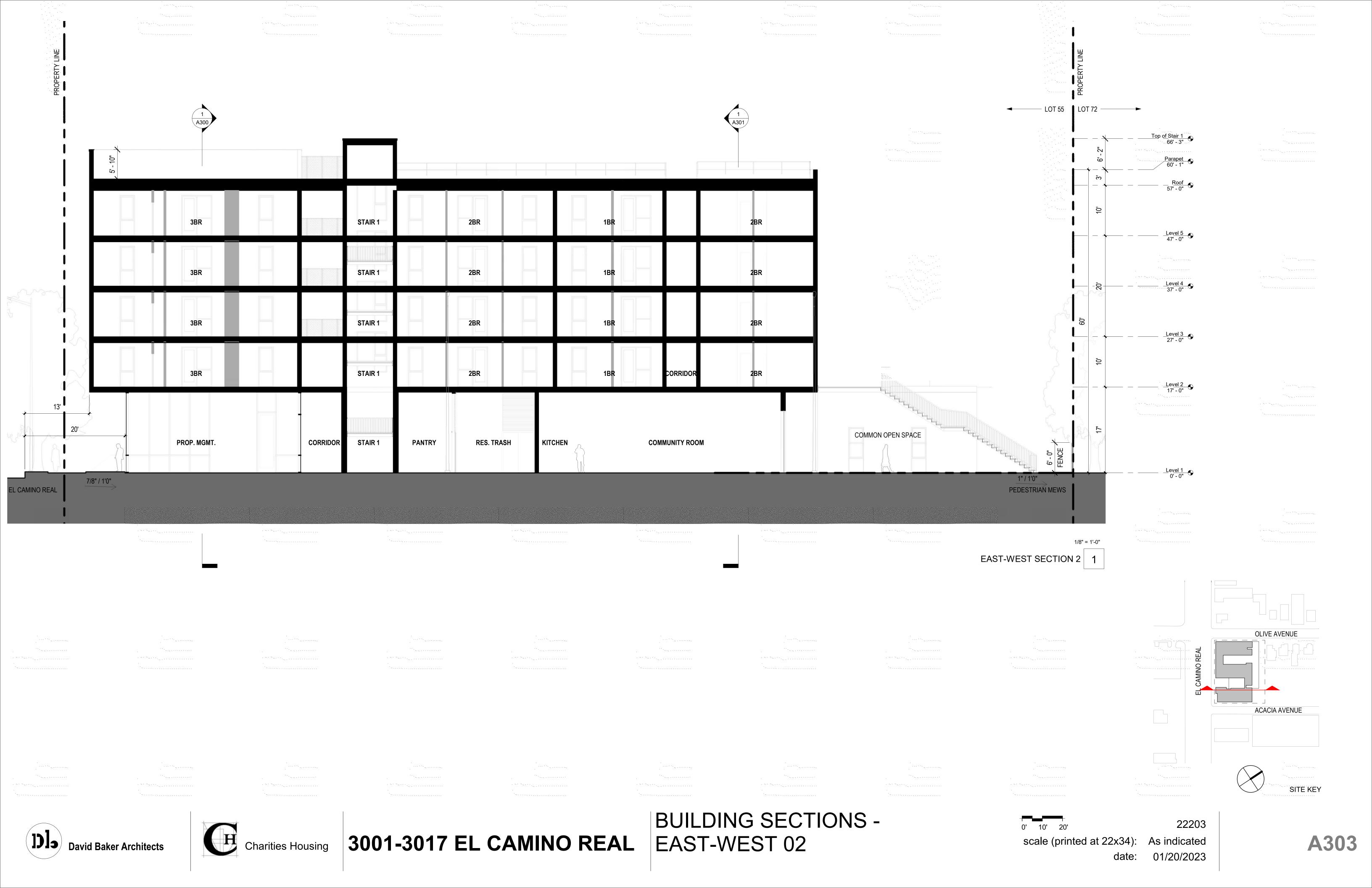


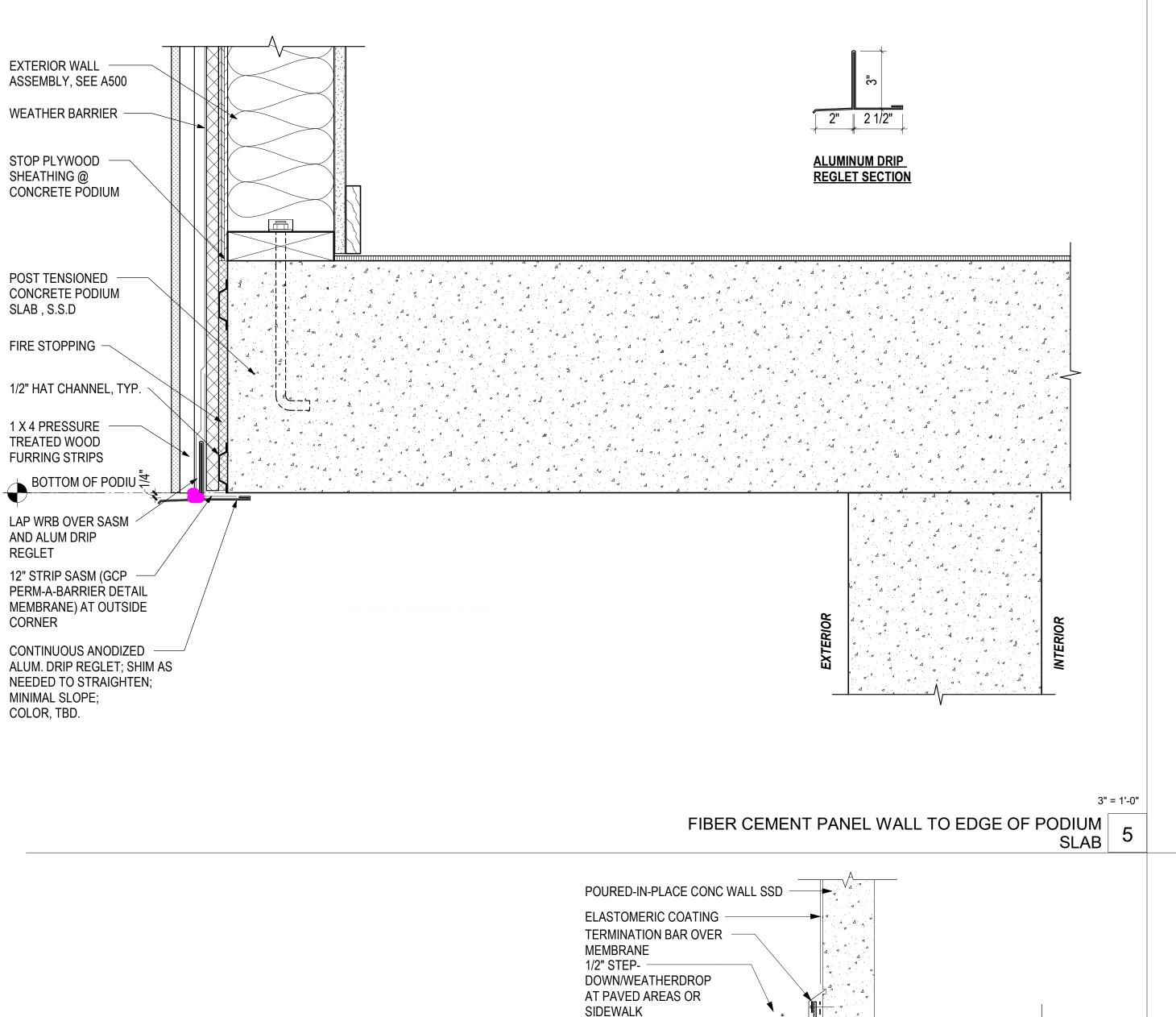












TOP OF WALK
SIMILAR DETAIL @

PRE-APPLIED WP

MAT SLAB, SSD

15 MIL VAPOR BARRIER

CONDITIONED SPACES.

WHERE OCCURS AT

6" MIN COMPACTED

GEOTECH REPORT

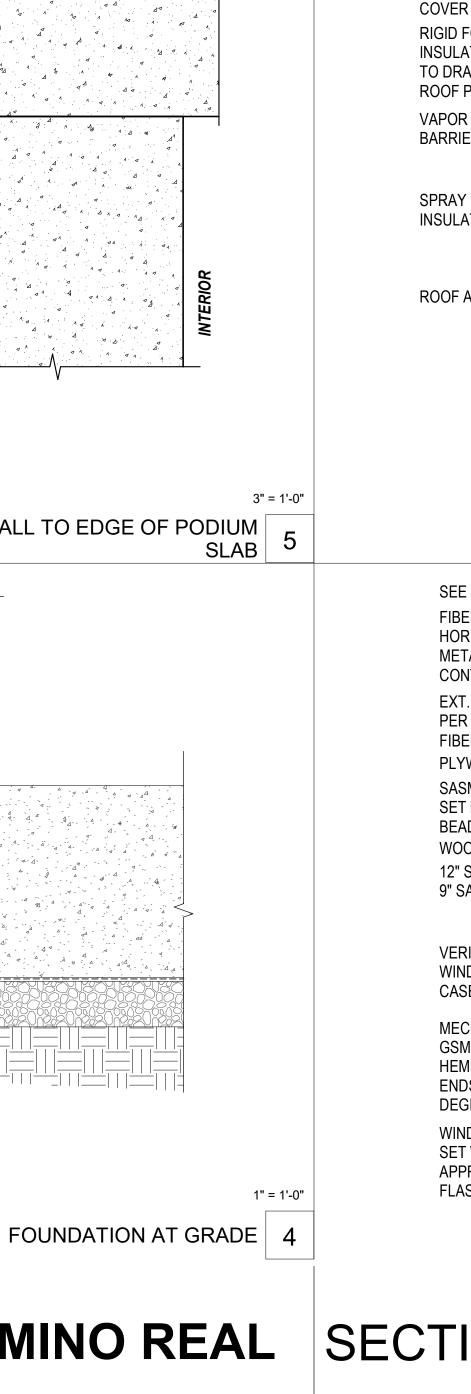
CAPILLARY BREAK SEE

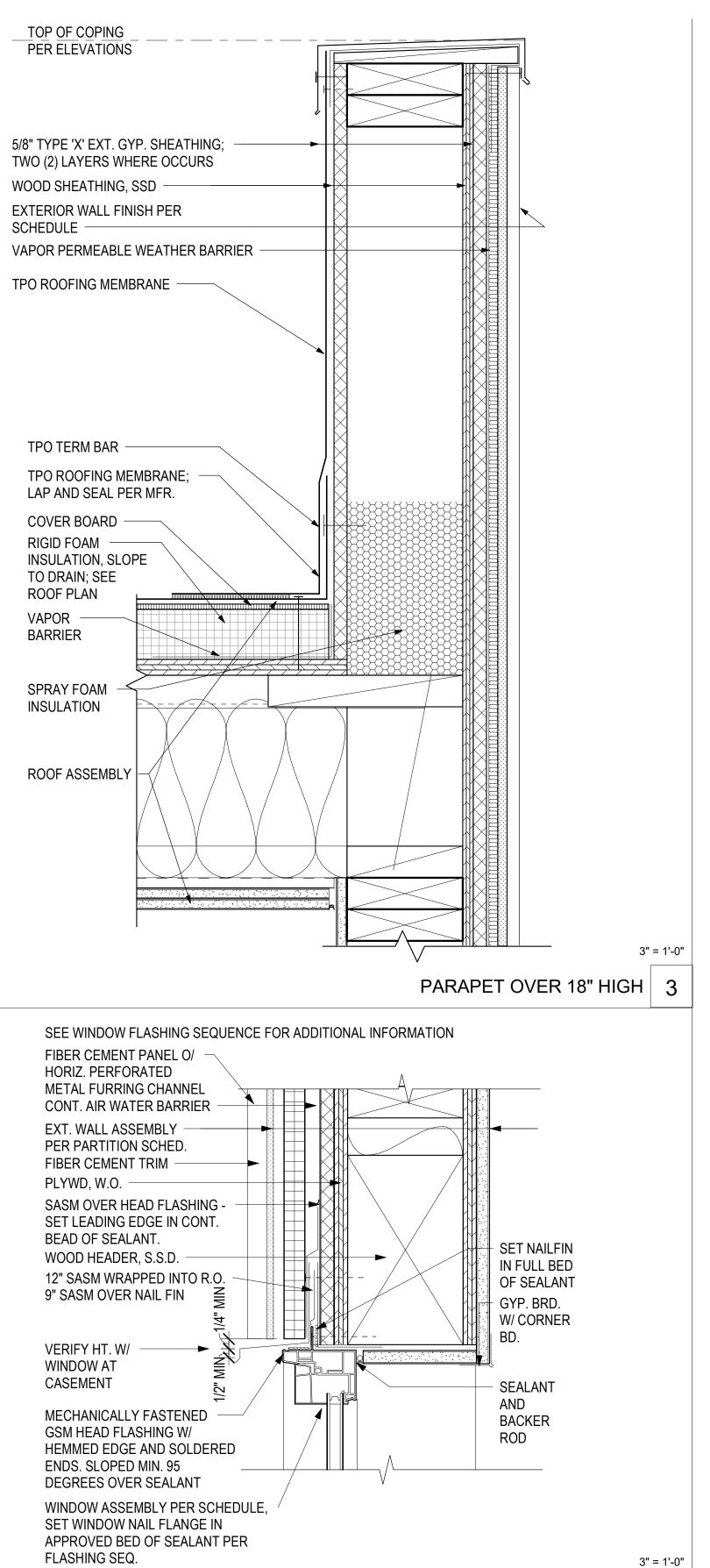
WRAP UP 4" MIN

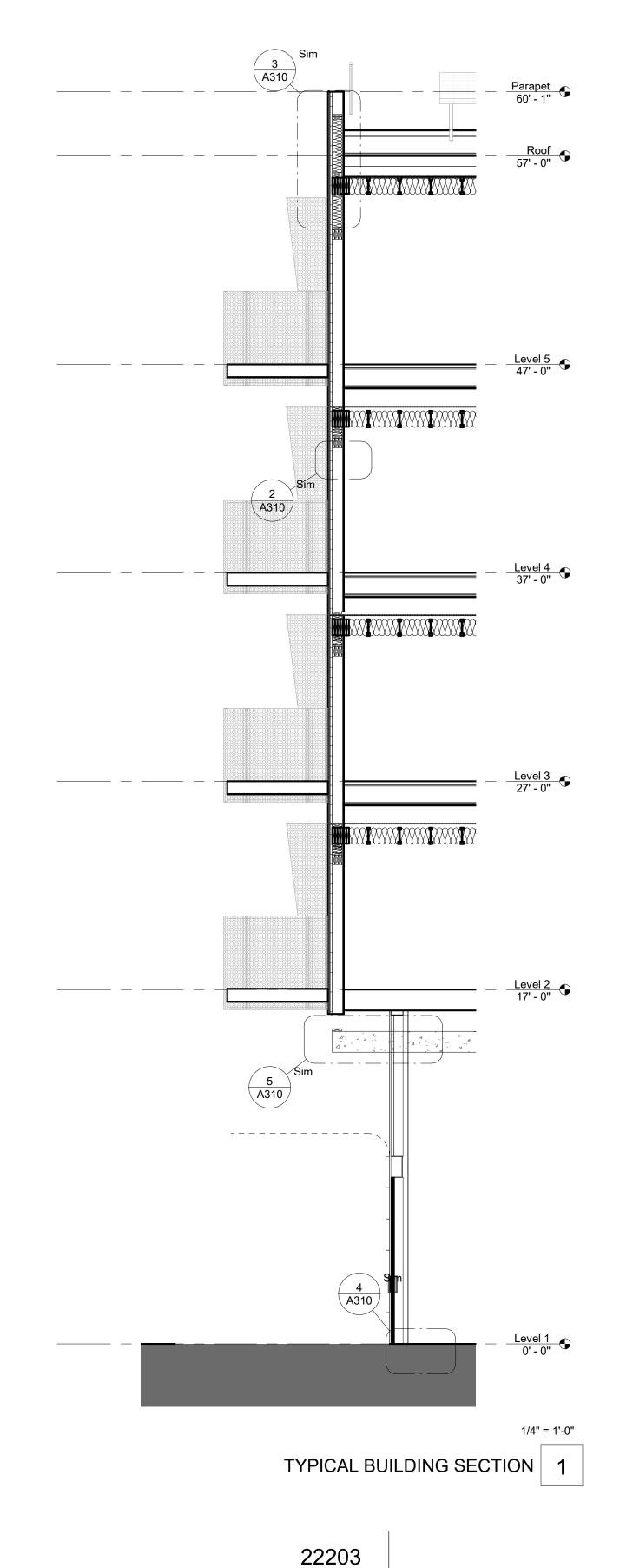
AGGREGATE

MEMBRANE

TOP OF SOIL/GRAVEL











WINDOW - HEAD AT FIBER CEMENT | 2