PALO ALTO FIRE STATION NO.4 REPLACEMENT PROJECT

3600 MIDDLEFIELD ROAD

VIEW FROM CORNER OF MIDDLEFIELD ROAD & EAST MEADOW DRIVE

OWNER
CITY OF PALO ALTO
250 HAMILTON AVENUE FLOOR 6
PALO ALTO, CA 94301
650.329.2397

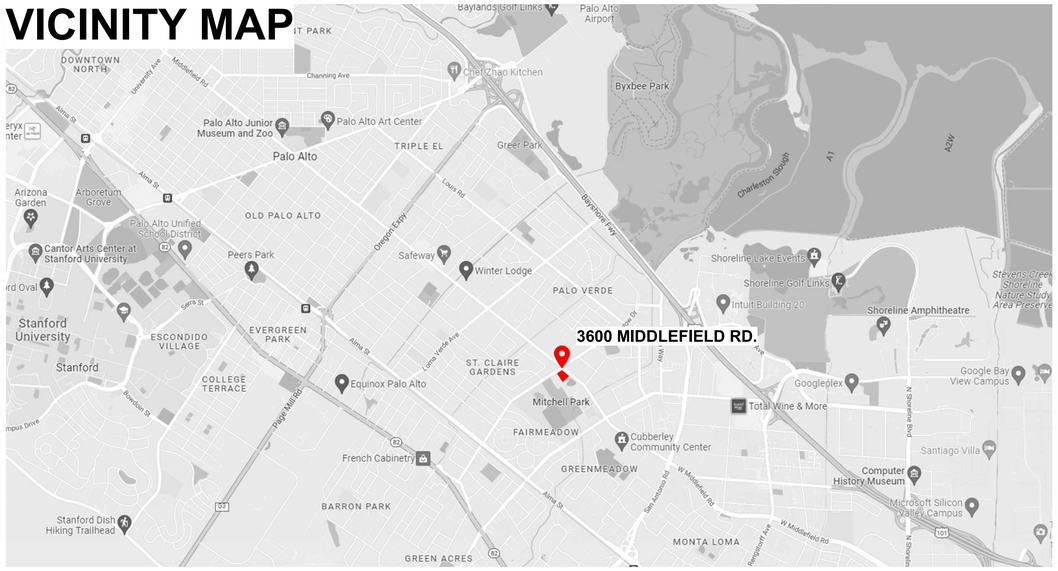
ARCHITECT
BROWN REYNOLDS WATFORD ARCHITECTS, INC.
1620 MONTGOMERY ST. SUITE 320
SAN FRANCISCO, CA 94111
415.749.2670

CIVIL ENGINEER
SANDIS
636 9TH STREET
OAKLAND, CA 94607
510.590.3421

LANDSCAPE ARCHITECT
HLA GROUP
301 UNIVERSITY AVE. SUITE 110
SACRAMENTO, CA 95825
916.447.7400

ARBORIST
MACNAIR & YATES
P.O. BOX 1150
GLEN ELLEN, CA, 95442
707.938.1822

VICINITY MAP



INDEX OF DRAWINGS (C1_3600MID_PLAN)

TOTAL SHEETS: 32

INDEX OF FILES

PLANNING APPLICATION (C1_3600MIDD_APPLY)

PROJECT DESCRIPTION (C1_3600MIDD_DOCS)

ENVIRONMENTAL ASSESSMENT (C1_3600MIDD_ENVIR)

COLOR & MATERIAL BOARD (C1_3600MIDD_MATBOARD)

ARBORIST REPORT (C1_3600MIDD_ARBORIST)

COMMUNITY OUTREACH SURVEY RESULTS (C1_3600MIDD_COMMUNITY)

JULY 27, 2023

PALO ALTO FIRE PREVENTION HAZMAT EMS FIRE DEPT

BRW ARCHITECTS

BUILDING SIGN AND NOTICE OF PROPOSED PROJECT SIGN

BUILDING SIGN AND NOTICE OF PROPOSED PROJECT SIGN

PROJECT DATA

OVERVIEW
- ADDRESS: 3600 MIDDLEFIELD ROAD, PALO ALTO, CA 94303
- PARCEL #: 132-06-012
- ZONING DISTRICT (PROJECT LOT): PF (PUBLIC FACILITIES)
- ZONING DISTRICT (ADJ. LOTS): R-1 (8000)
- FLOOD ZONE: X
- FEMA MAP PARCEL: 0036H
- SITE AREA (ENTIRE PARCEL): 82,304 SF (1.89 ACRES)
- SITE AREA (FIRE STATION): 28,490 SF (0.65 ACRES)

ALL ELECTRIC BUILDING.

SITE/AREA COVERAGE - REQUIRED
- MAX. ALLOWABLE SITE COVERAGE: 30%
- *THE REQUIREMENT FOR A MAXIMUM SITE COVERAGE OF 30% DOES NOT APPLY. SEE SECTION 118.28.060 (E) DEVELOPMENT STANDARD EXCEPTION (2) ESSENTIAL SERVICES BUILDINGS.*

SITE/AREA COVERAGE - ENTIRE PARCEL
- CURRENT SITE COVERAGE: 4,504 SF (6%)
- PROPOSED SITE COVERAGE: 9,671 SF (13%)

SITE/AREA COVERAGE - FIRE STATION
- CURRENT SITE COVERAGE: 2,916 SF (10%)
- PROPOSED SITE COVERAGE: 8,083 SF (28%)

FLOOR AREA
- ALLOWABLE FAR: 1:1 = 100%
- GROSS FLOOR AREA: 8,000 SF (NEW BUILDING)
  83 SF (TRASH ENCLOSURE)
  1,588 SF (SUBSTATION)
  9,671 SF (TOTAL)
- PROPOSED FAR: 9,671 SQ.FT/ 82,304 SF = 12%

REQUIRED MINIMUM BUILDING SETBACKS
- FRONT (MIDDLEFIELD ROAD): 24'-0"
- STREET SIDE (E. MEADOW DRIVE): 20'-0"
- REAR (SOUTH): 20'-0"
- INTERIOR SIDE (EAST): 8'-0"

PROPOSED BUILDING SETBACKS:
- FRONT (MIDDLEFIELD ROAD): 24'-0"
- STREET SIDE (E. MEADOW DRIVE): 20'-0"
- REAR (SOUTH): 20'-0"
- INTERIOR SIDE (EAST): N/A

BUILDING HEIGHT
- MAX. ALLOWABLE: 35'-0"
- PROPOSED: 25'-0"

AUTOMOBILE PARKING
- REQUIRED - AS DIRECTED BY FIRE DEPARTMENT OPERATIONS
- PUBLIC: (1) ADA VAN + (1) STANDARD
- FIRE DEPT.: (1) ADA VAN + (9) STANDARD
- TOTAL PROPOSED: (12) SPACES

EV PARKING
- (1) PUBLIC
- (1) STAFF

BIKE PARKING
- PUBLIC
- STAFF

CONSTRUCTION TYPE
- TYPE VB - SPRINKLERED

BUILDING OCCUPANCY TYPE (CHAPTER 3)
- BUSINESS (B)
- RESIDENTIAL (R-2)
- LOW HAZARD STORAGE (S-1)

BUILDING OCCUPANCY TYPE FIRE SEPARATIONS (TABLE 508.4)
B TO S-1: NS
B TO R-2: 1 HOUR

APPLICABLE BUILDING CODES

- 2022 CALIFORNIA BUILDING CODE WITH CITY OF PALO ALTO AMENDMENTS (ORD. 5564)
- 2022 CALIFORNIA MECHANICAL CODE WITH CITY OF PALO ALTO AMENDMENTS (ORD. 5565)
- 2022 CALIFORNIA PLUMBING CODE WITH CITY OF PALO ALTO AMENDMENTS (ORD. 5567)
- 2022 CALIFORNIA ELECTRICAL CODE WITH CITY OF PALO ALTO AMENDMENTS (ORD. 5568)
- 2022 CALIFORNIA FIRE CODE WITH CITY OF PALO ALTO AMENDMENTS (ORD. 5563)
- 2022 CALIFORNIA BUILDING CODE WITH CITY OF PALO ALTO AMENDMENTS (ORD. 5564)
- 2022 CALIFORNIA BUILDING CODE WITH CITY OF PALO ALTO AMENDMENTS (ORD. 5564)
- 2022 CALIFORNIA ENERGY CODE WITH CITY OF PALO ALTO AMENDMENTS (ORD. 5571)
- 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE WITH CITY OF PALO ALTO AMENDMENTS (ORD. 5570)

NUMBER OF FLOORS:	1 (WITH MEZZANINE)
CONSTRUCTION TYPE:	TYPE VB
OCCUPANCY CLASSIFICATION:	B, R-2, S-2
SPRINKLERED	YES

SITE / AREA COVERAGE TABLE

LOT SQUARE FOOTAGE:	76,276 SF (1.75 ACRES)
FIRE STATION:	28,490 SF
ELECT. SUB-STATION	47,786 SF

FIRE STATION "LOT"	EXISTING	PROPOSED
FIRE STATION	2,916 SF	8,083 SF
PAVED AREA	10,126 SF	14,245 SF
LANDSCAPE	15,448 SF	6,162 SF
BLDG COVERAGE	10%	28%

SUB-STATION	EXISTING
SUB-STATION	1,588 SF
PAVED AREA	11,016 SF
LANDSCAPE	14,585 SF
GRAVEL SURFACE	20,597 SF
BLDG COVERAGE	6%

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PALO ALTO FIRE DEPARTMENT
STATION NO.4 REPLACEMENT

3600 MIDDLEFEILD ROAD
PALO ALTO, CA 94303

A-2

PROJECT DATA TABLE

JULY 27, 2023

CONTEXTUAL ELEVATION - MIDDLEFIELD

CONTEXTUAL ELEVATION - EAST MEADOW

CONTEXTUAL AERIAL PHOTO

PHOTO TAKEN VIA DRONE: SEPTEMBER 2022

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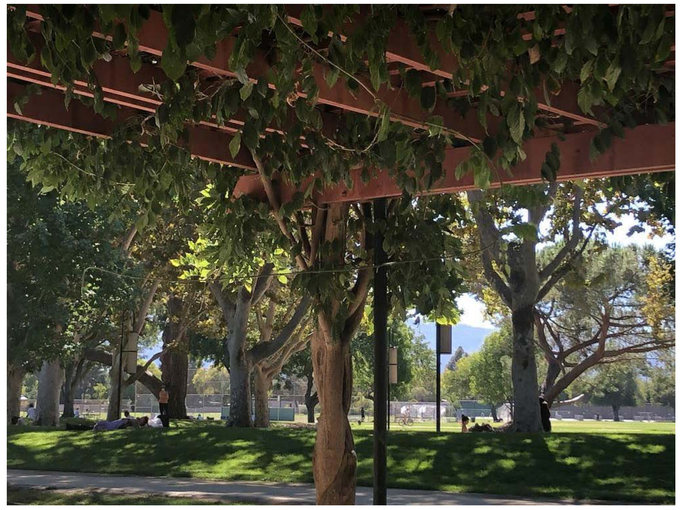
B-1

CONTEXTUAL STUDY

JUNE 30, 2023

CHURCH AND APARTMENTS



MITCHELL PARK

RESIDENTIAL CONTEXT

MITCHELL PARK

RESIDENTIAL CONTEXT

RESIDENTIAL CONTEXT

RESIDENTIAL CONTEXT

RESIDENTIAL CONTEXT

RESIDENTIAL CONTEXT

CHURCH

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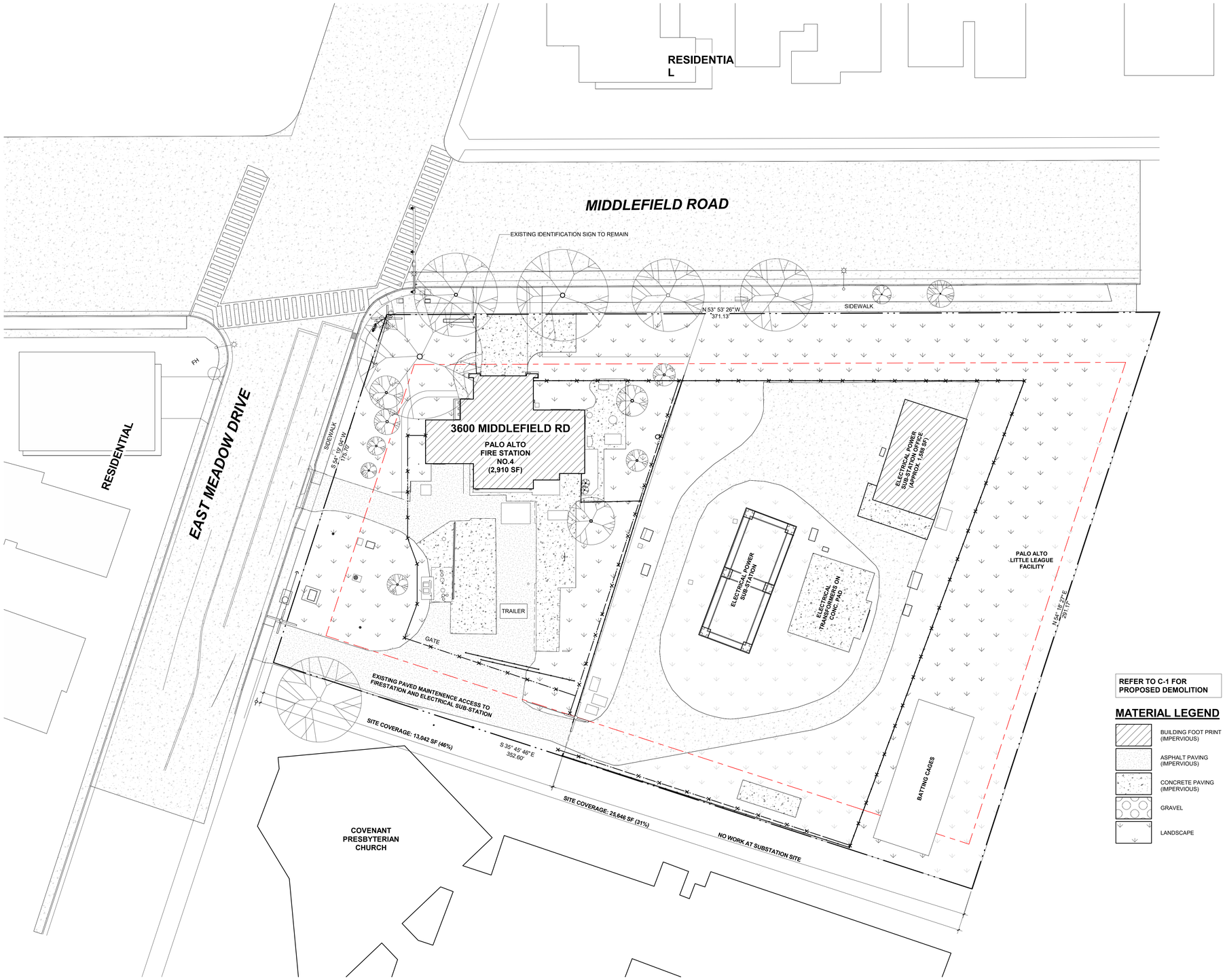
B-2

NEIGHBORHOOD CONTEXT

JUNE 30, 2023



REFER TO C-1 FOR PROPOSED DEMOLITION

MATERIAL LEGEND

- BUILDING FOOT PRINT (IMPERVIOUS)
- ASPHALT PAVING (IMPERVIOUS)
- CONCRETE PAVING (IMPERVIOUS)
- GRAVEL
- LANDSCAPE

PLAN NORT / TRUE NORT

1 EXISTING PARCEL SITE PLAN

1" = 20'-0"

0 10 20 40

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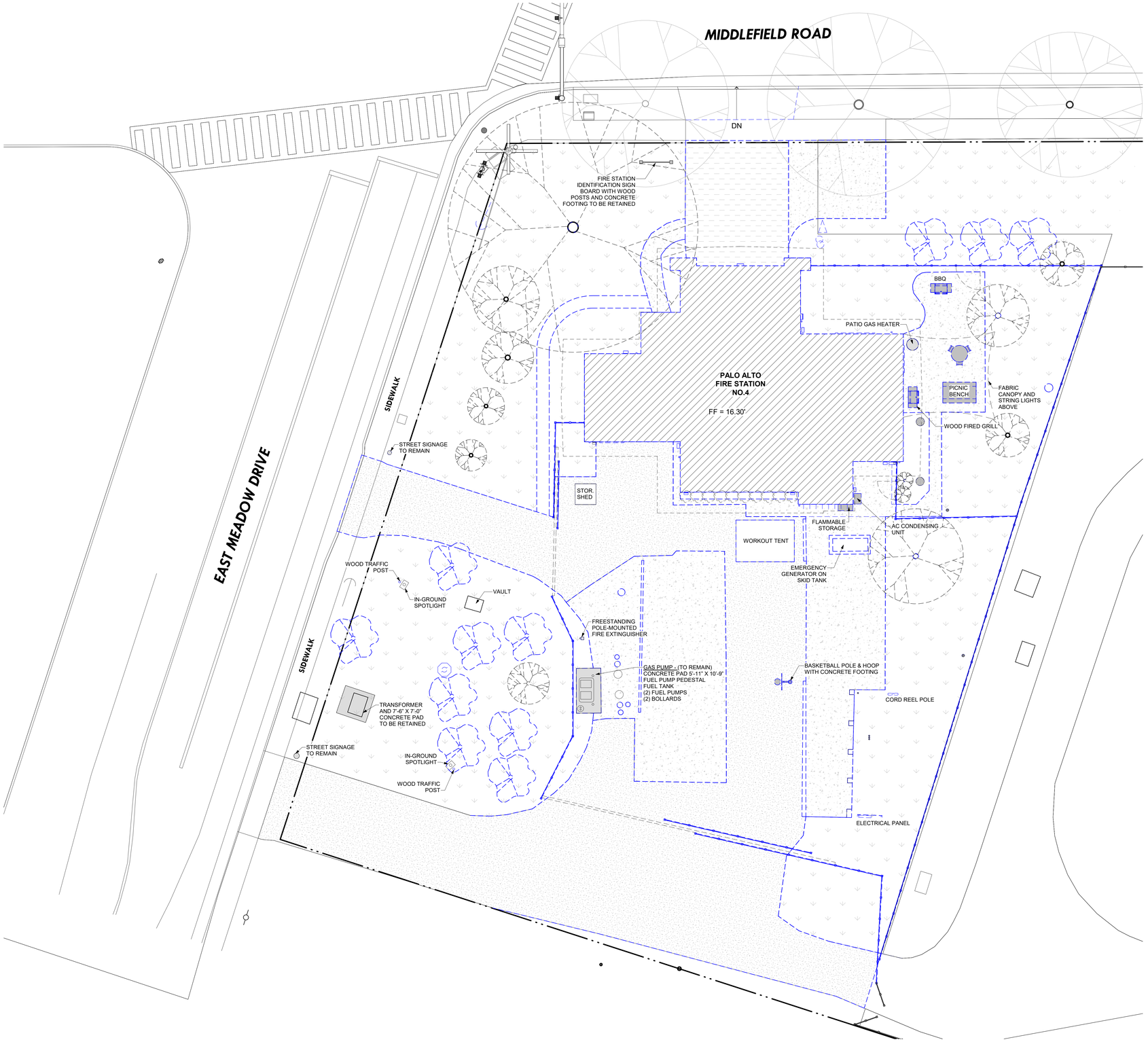
C-0

PARCEL PLAN

JUNE 30, 2023



SITE AND BUILDING DEMOLITION LEGEND

- ONE-STORY WOOD FRAMED BUILDING
- SP-1 — 4" THK. CONCRETE PAVING
- SP-6 — APRON PAVING
- SP-8 — AC PAVING
- SD-1 — SHRUBS AND GROUNDCOVER
- TREE TO BE REMOVED, REF J-2
- SHRUB TO BE REMOVED

PLAN NORTH / TRUE NORTH

1 SITE DEMOLITION PLAN

1" = 10'-0"

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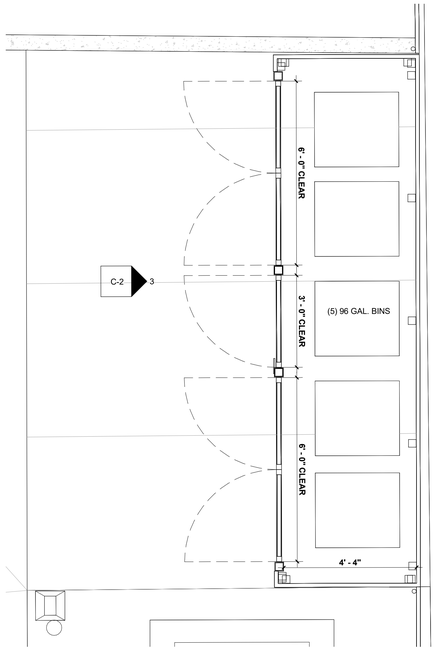
CITY OF PALO ALTO
FIRE STATION NO.4

3600 MIDDLEFIELD RD
PALO ALTO, CA 94303

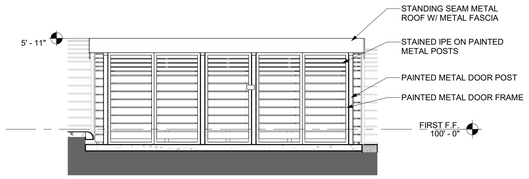
C-1

ARCHITECTURAL SITE DEMOLITION PLAN

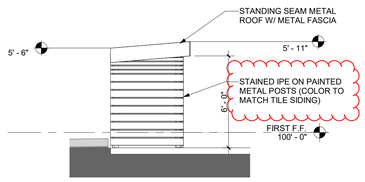
JUNE 12, 2023



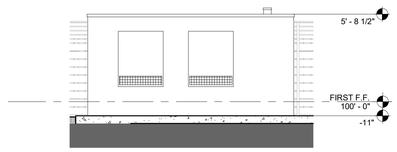
2 ENLARGED TRASH ENCLOSURE PLAN
1/2" = 1'-0"



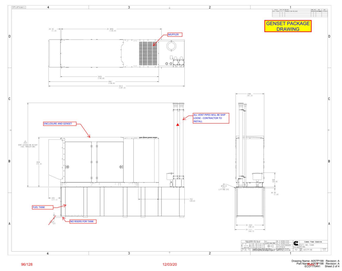
3 ELEVATION - TRASH ENCLOSURE
1/4" = 1'-0"

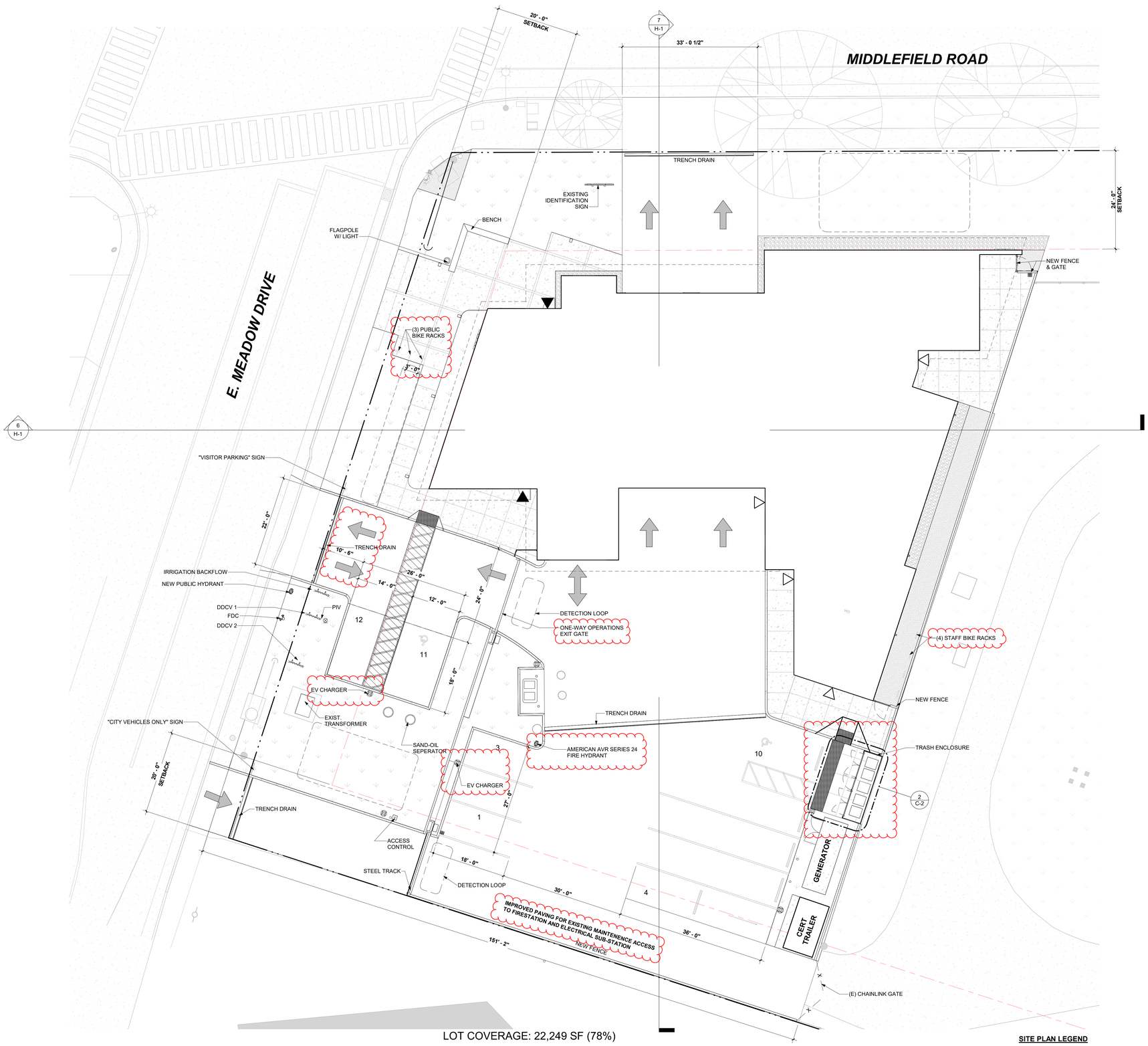


4 ELEVATION - TRASH ENCLOSURE
1/4" = 1'-0"



5 EE-GENERATOR M01
1/4" = 1'-0"





LOT COVERAGE: 22,249 SF (78%)

PLAN NORT
TRUE NORT

1 SITE PLAN
1" = 10'-0"

SITE PLAN LEGEND

- ACCESSIBLE PUBLIC ENTRANCE
- ACCESSIBLE ACCESS
- X — NEW CHAINLINK FENCE

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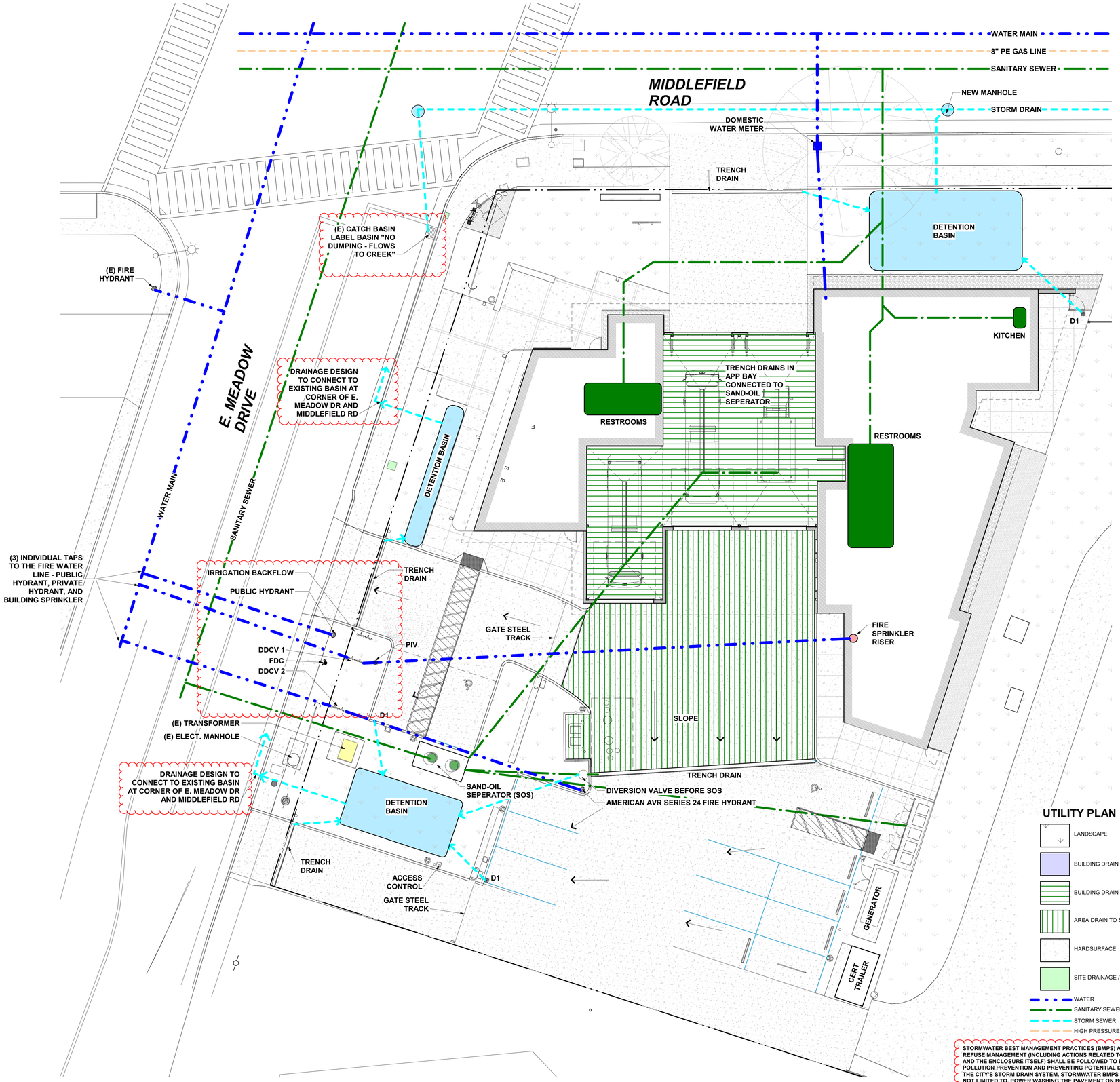
PALO ALTO, CA 94303

C-2

SITE PLAN

JULY 27, 2023



1 SITE UTILITY & DRAINAGE PLAN

1" = 10'-0"

UTILITY PLAN LEGEND

- LANDSCAPE
- BUILDING DRAIN TO SAN. SEWER
- BUILDING DRAIN TO SOS
- AREA DRAIN TO SOS
- HARDSURFACE
- SITE DRAINAGE / BIO-RETENTION
- WATER
- SANITARY SEWER
- STORM SEWER
- HIGH PRESSURE GAS LINE

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.

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PALO ALTO FIRE DEPARTMENT STATION NO.4 REPLACEMENT

3600 MIDDLEFEILD ROAD
PALO ALTO, CA 94303

C-3

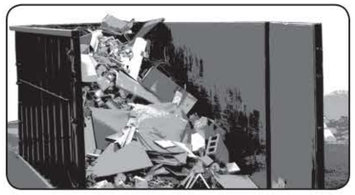
UTILITY & DRAINAGE PLAN

JULY 27, 2023

POLLUTION PREVENTION — IT'S PART OF THE PLAN

Construction projects are required to implement year-round stormwater BMPs, as they apply to your project.

Runoff from streets and other paved areas is a major source of pollution to San Francisco Bay. Construction activities can directly affect the health of the Bay unless contractors and crews plan ahead to keep construction dirt, debris, and other pollutants out of storm drains and local creeks. Following these guidelines will ensure your compliance with City of Palo Alto Ordinance requirements.






MATERIALS & WASTE MANAGEMENT

Non-Hazardous Materials

- ☐ Berm and cover stockpiles of sand, dirt or other construction material with tarps when rain is forecast or when they are not in use.
- ☐ Use (but don't overuse) reclaimed water for dust control.
- ☐ Ensure dust control water doesn't leave site or discharge to storm drains.

Hazardous Materials

- ☐ Label all hazardous materials and hazardous wastes (such as pesticides, paints, thinners, solvents, fuel, oil, and antifreeze) in accordance with city, county, state and federal regulations.
- ☐ Store hazardous materials and wastes in water tight containers, store in appropriate secondary containment, and cover them at the end of every work day or during wet weather or when rain is forecast.
- ☐ Follow manufacturer's application instructions for hazardous materials and do not use more than necessary. Do not apply chemicals outdoors when rain is forecast within 24 hours.
- ☐ Arrange for appropriate disposal of all hazardous wastes.

Waste Management

- ☐ Cover and maintain dumpsters. Check frequently for leaks. Place dumpsters under roofs or cover with tarps or plastic sheeting secured around the outside of the dumpster. A plastic liner is recommended to prevent leaks. Never clean out a dumpster by hosing it down on the construction site.
- ☐ Place portable toilets away from storm drains. Make sure they are in good working order. Check frequently for leaks.
- ☐ Dispose of all wastes and demolition debris properly. Recycle materials and wastes that can be recycled, including solvents, water-based paints, vehicle fluids, broken asphalt and concrete, wood, and cleared vegetation.
- ☐ Dispose of liquid residues from paints, thinners, solvents, glues, and cleaning fluids as hazardous waste.
- ☐ Keep site clear of litter (e.g. lunch items, cigarette butts).
- ☐ Prevent litter from uncovered loads by covering loads that are being transported to and from site.

Construction Entrances and Perimeter

- ☐ Establish and maintain effective perimeter controls and stabilize all construction entrances and exits to sufficiently control erosion and sediment discharges from site and tracking off site.
- ☐ Sweep or vacuum any street tracking immediately and secure sediment source to prevent further tracking. Never hose down streets to clean up tracking.

EQUIPMENT MANAGEMENT & SPILL CONTROL

Maintenance and Parking

- ☐ Designate an area of the construction site, well away from streams or storm drain inlets and fitted with appropriate BMPs, for auto and equipment parking, and storage.
- ☐ Perform major maintenance, repair jobs, and vehicle and equipment washing off site.
- ☐ If refueling or vehicle maintenance must be done onsite, work in a bermed area away from storm drains and over a drip pan or drop cloths big enough to collect fluids. Recycle or dispose of fluids as hazardous waste.
- ☐ If vehicle or equipment cleaning must be done onsite, clean with water only in a bermed area that will not allow rinse water to run into gutters, streets, storm drains, or surface waters.
- ☐ Do not clean vehicle or equipment onsite using soaps, solvents, degreasers, or steam cleaning equipment, and do not use diesel oil to lubricate equipment or parts onsite.

Spill Prevention and Control

- ☐ Keep spill cleanup materials (e.g., rags, absorbents and cat litter) available at the construction site at all times.
- ☐ Maintain all vehicles and heavy equipment. Inspect frequently for and repair leaks. Use drip pans to catch leaks until repairs are made.
- ☐ Clean up leaks, drips and other spills immediately and dispose of cleanup materials properly.
- ☐ Use dry cleanup methods whenever possible (absorbent materials, cat litter and/or rags).
- ☐ Sweep up spilled dry materials immediately. Never attempt to "wash them away" with water, or bury them.
- ☐ Clean up spills on dirt areas by digging up and properly disposing of contaminated soil.
- ☐ Report any hazardous materials spills immediately! Call City of Palo Alto Communications, **(650) 329-2413**. If the spill poses a significant hazard to human health and safety, property or the environment, you must report it to the State Office of Emergency Services. **(800) 852-7550 (24 hours).**

EARTHMOVING

Grading and Earthwork

- ☐ Schedule grading and excavation work during dry weather.
- ☐ Stabilize all denuded areas, install and maintain temporary erosion controls (such as erosion control fabric or bonded fiber matrix) until vegetation is established.
- ☐ Remove existing vegetation only when absolutely necessary, plant temporary vegetation for erosion control on slopes or where construction is not immediately planned.
- ☐ Prevent sediment from migrating offsite and protect storm drain inlets, drainage courses and streams by installing and maintaining appropriate BMPs (e.g., silt fences, gravel bags, fiber rolls, temporary swales, etc.).
- ☐ Keep excavated soil on site and transfer it to dump trucks on site, not in the streets.

Contaminated Soils

- ☐ If any of the following conditions are observed, test for contamination and contact the Regional Water Quality Control Board:
  - Unusual soil conditions, discoloration, or odor.
  - Abandoned underground tanks.
  - Abandoned wells.
  - Buried barrels, debris, or trash.
- ☐ If the above conditions are observed, document any signs of potential contamination and clearly mark them so they are not distrurbed by construction activities.

Landscaping

- ☐ Protect stockpiled landscaping materials from wind and rain by storing them under tarps all year-round.
- ☐ Stack bagged material on pallets and under cover.
- ☐ Discontinue application of any erodible landscape material within 2 days before a forecast rain event or during wet weather.

CONCRETE MANAGEMENT & DEWATERING

Concrete Management

- ☐ Store both dry and wet materials under cover, protected from rainfall and runoff and away from storm drains or waterways. Store materials off the ground, on pallets. Protect dry materials from wind.
- ☐ Wash down exposed aggregate concrete only when the wash water can (1) flow onto a dirt area; (2) drain onto a bermed surface from which it can be pumped and disposed of properly; or (3) block any storm drain inlets and vacuum washwater from the gutter. If possible, sweep first.
- ☐ Wash out concrete equipment/trucks offsite or in a designated washout area, where the water will fl ow into a temporary waste pit, and make sure wash water does not leach into the underlying soil. (See CASQA Construction BMP Handbook for properly designed concrete washouts.)

Dewatering

- ☐ Reuse water for dust control, irrigation or another on-site purpose to the greatest extent possible.
- ☐ Be sure to obtain a Permit for Construction in the Public Street from Public Works Engineering before discharging water to a street, gutter, or storm drain. Call the Regional Water Quality Control Plant (RWQCP) at **(650) 329-2598** for an inspection prior to commencing discharge. Use filtration or diversion through a basin, tank, or sediment trap as required by the approved dewatering plan. Dewatering is not permitted from October to April.
- ☐ In areas of known contamination, testing is required prior to reuse or discharge of groundwater. Consult with the City inspector to determine what testing to do and to interpret results. Contaminated groundwater must be treated or hauled off-site for proper disposal.

PAVING/ASPHALT WORK

Paving

- ☐ Avoid paving and seal coating in wet weather or when rain is forecast, to prevent materials that have not cured from contacting stormwater runoff.
- ☐ Cover storm drain inlets and manholes when applying seal coat, slurry seal, fog seal, or similar materials.
- ☐ Collect and recycle or appropriately dispose of excess abrasive gravel or sand. Do NOT sweep or wash it into gutters.

Sawcutting & Asphalt/Concrete Removal

- ☐ Protect storm drain inlets during saw cutting.
- ☐ If saw cut slurry enters a catch basin, clean it up immediately.
- ☐ Shovel or vacuum saw cut slurry deposits and remove from the site. When making saw cuts, use as little water as possible. Sweep up, and properly dispose of all residues.

PAINTING & PAINT REMOVAL

Painting Cleanup and Removal

- ☐ Never clean brushes or rinse paint containers into a street, gutter, storm drain, or stream.
- ☐ For water-based paints, paint out brushes to the extent possible, and rinse into a drain that goes to the sanitary sewer. Never pour paint down a storm drain.
- ☐ For oil-based paints, paint out brushes to the extent possible and clean with thinner or solvent in a proper container. Filter and reuse thinners and solvents. Dispose of excess liquids as hazardous waste.
- ☐ Sweep up or collect paint chips and dust from non-hazardous dry stripping and sand blasting into plastic drop cloths and dispose of as trash.
- ☐ Chemical paint stripping residue and chips and dust from marine paints or paints containing lead, mercury, or tributyltin must be disposed of as hazardous waste. Lead based paint removal requires a state certified contractor.


STORM DRAIN POLLUTERS MAY BE LIABLE FOR FINES OF UP TO $10,000 PER DAY!

250 Hamilton Avenue
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cityofpaloalto.org

CITY OF PALO ALTO

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PALO ALTO FIRE DEPARTMENT
STATION NO.4 REPLACEMENT

3600 MIDDLEFEILD ROAD
PALO ALTO, CA 94303

C-4

POLLUTION PREVENTION PLAN

JUNE 30, 2023

BENCHMARK

THE ELEVATION REFERENCE FOR THIS SURVEY IS A SANTA CLARA VALLEY WATER DISTRICT BENCHMARK. BENCHMARK ID BM072, DESCRIBED AS BRASS DISK ON TOP AND CENTER OF SOUTHWEST HEADWALL AT MIDDLEFIELD ROAD AND BARRON CREEK. CITY OF PALO ALTO.

ELEV.=19.80 FEET (NAVD 88 DATUM)

UNDERGROUND UTILITY NOTE

THE TYPES, LOCATIONS, SIZES AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS TOPOGRAPHIC SURVEY ARE APPROXIMATE AND WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS AND DEPTHS OF SUCH UNDERGROUND UTILITIES. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES. HOWEVER, THE ENGINEER CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION OF SUCH UNDERGROUND UTILITIES WHICH MAY BE ENCOUNTERED, BUT WHICH ARE NOT SHOWN ON THIS SURVEY.

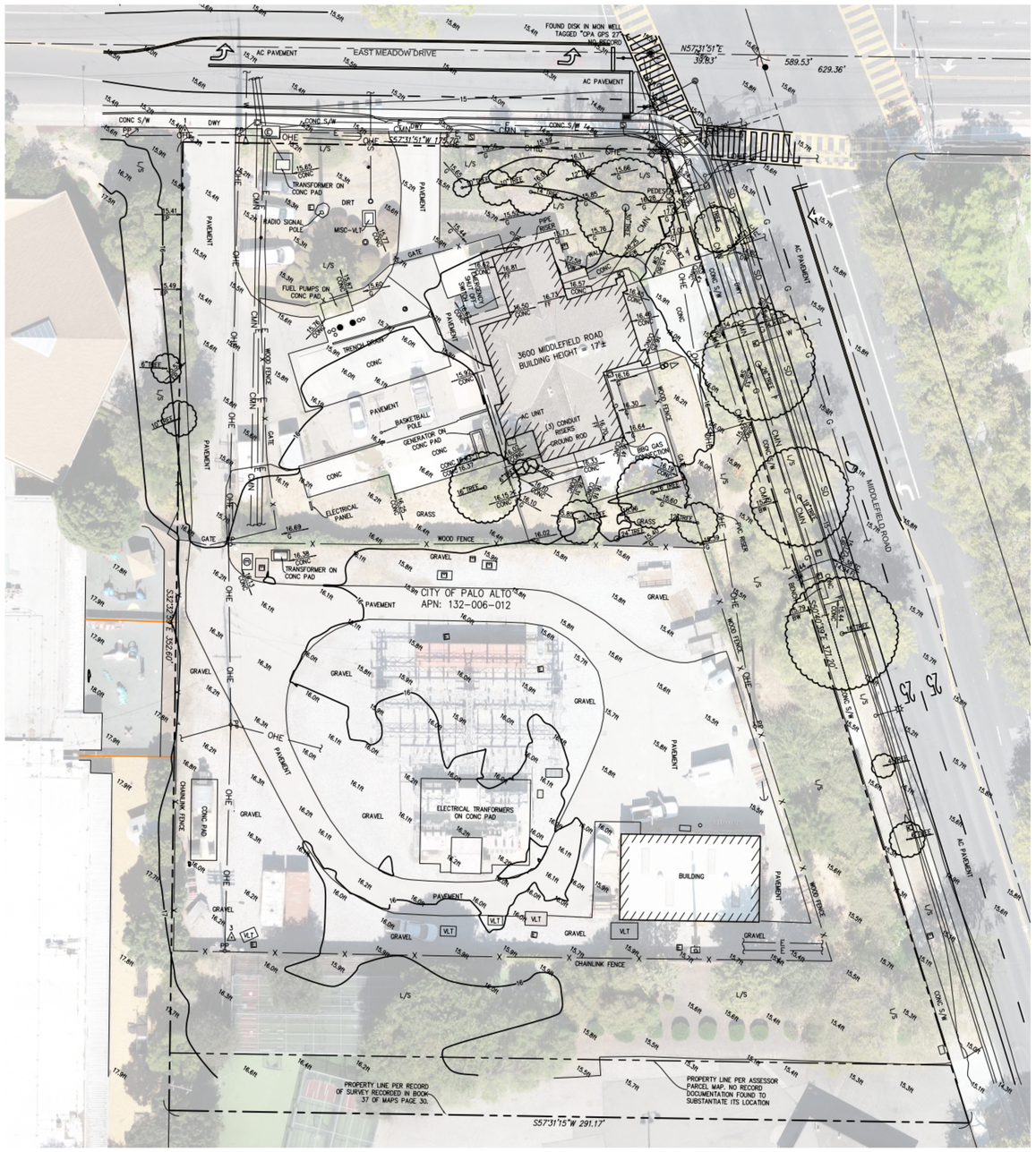
SURVEY NOTES

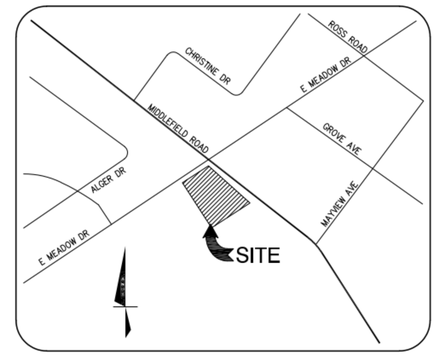
1. ALL DISTANCES AND DIMENSIONS ARE SHOWN IN FEET AND DECIMALS THEREOF.
2. DATES OF FIELD SURVEY: 09/06/2022, 09/07/2022.
3. THE PARCEL LINES SHOWN HEREON ARE BASED UPON RECORD INFORMATION AS SHOWN ON THE RECORD OF SURVEY MAP FILED IN BOOK 37 OF MAPS, PAGE 30, SANTA CLARA COUNTY RECORDS. EXISTING EASEMENTS AFFECTING THE PROPERTY, IF ANY, ARE NOT SHOWN HEREON. PLOTTING OF EXISTING EASEMENTS REQUIRES THE BENEFIT OF A PRELIMINARY TITLE REPORT.
4. HORIZONTAL CONTROL WAS BASED ON A GPS SURVEY USING GNSS RTK METHODS CONNECTED TO THE LEICA SMARTNET REAL TIME NETWORK TIED INTO CALIFORNIA STATE PLANE COORDINATES NAD83, EPOCH.

LEGEND

ALL DISTANCES AND DIMENSIONS ARE SHOWN IN FEET AND DECIMALS THEREOF.

- BUILDING FACE
- BUILDING OVERHANG
- EDGE OF PAVEMENT
- CURB & GUTTER LINE
- 95 / 94 — CONTOURS
- X — FENCE LINE, TYPE / HEIGHT AS INDICATED
- SD — STORM DRAIN LINE
- SS — SANITARY SEWER LINE
- W — WATER LINE
- G — NATURAL GAS LINE
- E — UNDERGROUND ELECTRIC LINE
- CMN — COMMUNICATION LINE
- OHE — OVERHEAD LINES
- LOT LINE
- BOUNDARY LINE
- CENTERLINE
- TIE LINE
- TRAFFIC SIGNAL ON POLE
- STORM DRAIN MANHOLE
- DRAIN INLET ON CURB
- SANITARY SEWER CLEANOUT
- WATER METER / BOX
- BACKFLOW PREVENTOR
- GAS METER
- C — COMMUNICATIONS VAULT / PULLBOX
- E — ELECTRIC MANHOLE
- E — ELECTRIC VAULT / PULLBOX
- PP — POWER POLE
- GUY WIRE ANCHOR
- TRAFFIC SIGNAL WITH ELECTROLIER
- STREET LIGHT PULLBOX
- MISCELLANEOUS CLEANOUT
- SIGN
- BOLLARD
- SPOT ELEVATION
- TREE WITH DRIPLINE, SIZE AS INDICATED





VICINITY MAP
N.T.S.

SURVEY CONTROL TABLE

Point #	Elevation	Northing	Easting	Description
1	15.29	1980838.64	6092628.88	MAG NAIL/SHINER
2	15.94	1980851.89	6092849.30	CUT X
3	16.00	1980602.50	6092804.80	60 D

0' 10' 20' 40'
1 INCH = 20 FT

ABBREVIATIONS

BFP	– BACKFLOW PREVENTOR
BLDC	– BUILDING CORNER
BLDL	– BUILDING LINE
BW	– BACK OF WALK
CLF	– CHAIN LINK FENCE
COM–PB	– COMMUNICATIONS PULLBOX
CONC	– CONCRETE
DWY	– DRIVEWAY
EP	– EDGE OF PAVEMENT
EPB	– ELECTRICAL PULLBOX
FF	– FINISHED FLOOR
FL	– FLOW LINE
G	– GROUND
GM	– GAS METER
GRATE	– DRAIN INLET GRATE
GUY	– GUY WIRE ANCHOR
LIP	– LIP OF GUTTER
L\S	– LANDSCAPING
MISC–CO	– MISCELLANEOUS CLEANOUT
MISC–VLT	– MISCELLANEOUS VAULT
PNL	– ELECTRIC PANEL
PP	– POWER POLE
SDMH	– STORM DRAIN MANHOLE
SSCO	– SANITARY SEWER CLEANOUT
STPB	– STREET LIGHT PULLBOX
SW	– SIDEWALK
TC	– TOP OF CURB
TC@CB	– TOP OF CURB AT CATCH BASIN
TOW	– TOP OF WALL
TRAF–S	– TRAFFIC SIGNAL POLE
TRANS	– TRANSFORMER
WF	– WOOD FENCE
WM	– WATER METER

SANDIS

build.of sandis.net

DATE: 09/26/2022
SCALE: 1"=20'
PROJECT No.: 620097

No.	REVISION	DATE	BY

3600 MIDDLEFIELD ROAD
PALO ALTO CALIFORNIA

TOPOGRAPHIC SURVEY

SHEET 1 OF 1 SHEETS

File: O:\2022\222062 Palo Alto Station 4\03 Design Correspondence\02 Consultant Correspondence\Sandis – Civil\09 26 22 Topo Survey Revised\620097 – 3600 Middlefield Road Fire Station.dwg Date: May 03, 2023 – 3:56 PM

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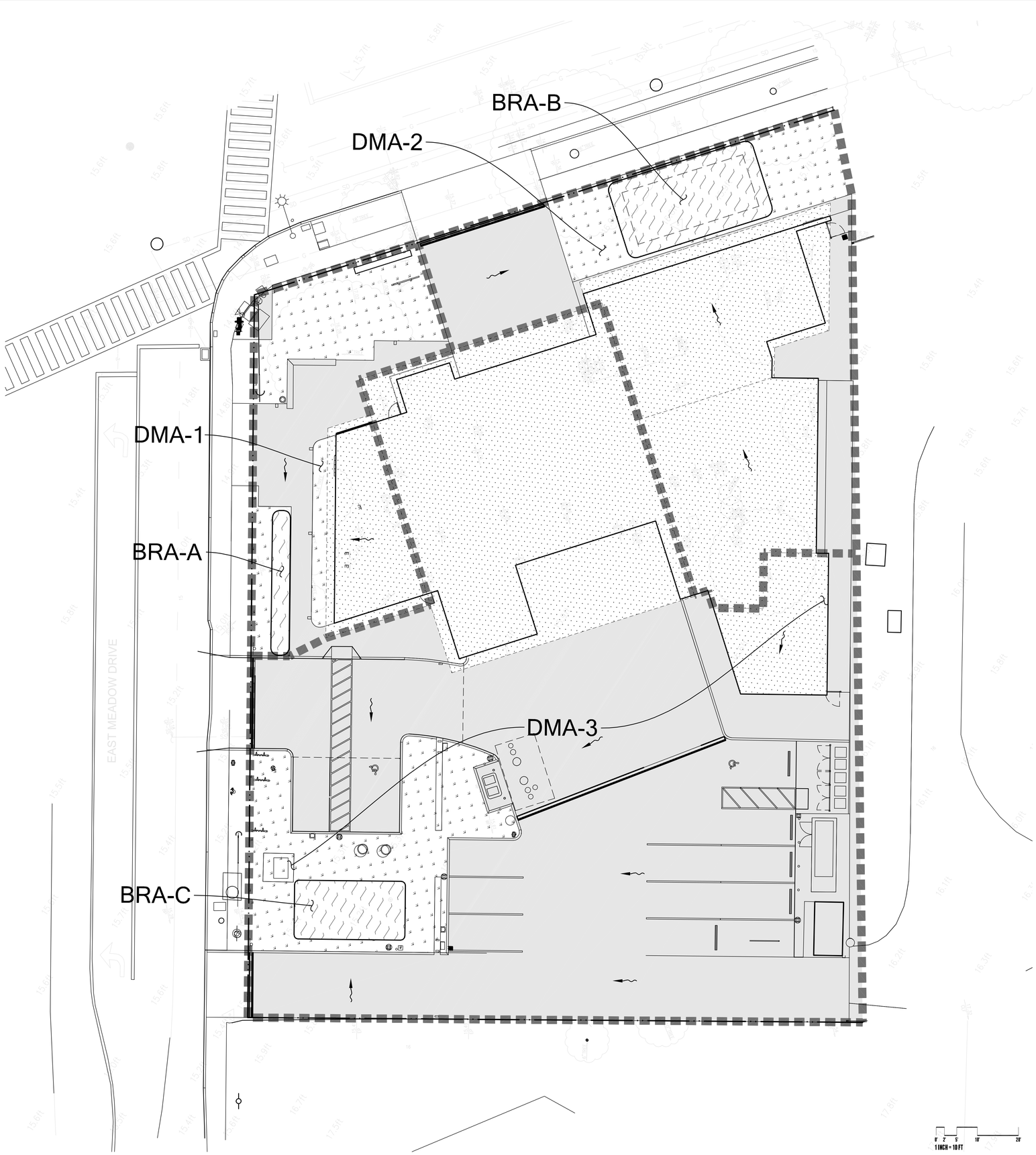
PALO ALTO, CA 94303

C-5
TOPO SURVEY
JULY 27, 2023



SANDIS

STORMWATER MANAGEMENT PLAN LEGEND

- PROPOSED PERVIOUS AREA
- PROPOSED IMPERVIOUS AREA
- PROPOSED IMPERVIOUS ROOF AREA
- BIO-RETENTION AREA
- DRAINAGE AREA BOUNDARY
- FLOW LINE
- FLOW DIRECTION

HYDROMODIFICATION NOTE:

THE PROJECT IS EXEMPT FROM HYDROMODIFICATION REQUIREMENTS PER THE SANTA CLARA C.3 TECHNICAL GUIDANCE DOCUMENT. THE PROJECT IS EXEMPT FROM HYDROMODIFICATION DUE TO THE WATER SHED DRAINING INTO A HARDENED CHANNEL.

STORMWATER MANAGEMENT NOTES:

1. THIS PLAN PRESENTS METHODS AND CALCULATIONS FOR COMPLYING WITH THE REQUIREMENTS OF PROVISION C.3 OF THE MUNICIPAL REGIONAL STORMWATER PERMIT IN ACCORDANCE WITH THE SANTA CLARA COUNTY PROGRAM AND THE CITY OF PALO ALTO REQUIREMENTS.
2. THE FOLLOWING TREATMENT MEASURES ARE PROPOSED TO REGULATE THE QUALITY OF STORM WATER LEAVING THE SITE
   - 2.1. BIO-RETENTION AREA – RUNOFF IN THIS AREA IS DIRECTED TO A BIO-RETENTION PLANTER/AREA FOR FILTRATION, INFILTRATION AND EVAPOTRANSPIRATION PRIOR TO EXITING THE SITE. PLANTING AND SOIL REQUIREMENTS APPLY, SEE DETAIL

C.3 STORMWATER TREATMENT MEASURES

DRAINAGE AREA	TOTAL AREA		IMPERVIOUS AREA		PERVIOUS AREA		PERCENT IMPERVIOUS	RUNOFF COEFFICIENT, C	RAINFALL INTENSITY, I** (IN/HR)	Q (CFS)	TREATMENT AREA REQUIRED (SF)***	SIZING METHOD	TREATMENT CONTROL METHOD*	TREATMENT PROVIDED (SF)	ADEQUATE SIZING (YES/NO)
	SF	AC.	SF	AC.	SF	AC.									
1	3358	0.077	1894	0.043	1464	0.034	56%	0.55	0.2	0.008	95	COMBO	BRA-A	153	YES
2	6838	0.157	5350	0.123	1488	0.034	78%	0.73	0.2	0.02	268	COMBO	BRA-B	405	YES
3	19081	0.438	16998	0.390	2083	0.048	89%	0.81	0.2	0.07	383	VOLUME	BRA-C****	383	YES

NOTES:
*BRA = BIORETENTION AREA, SRA = SELF-RETAINING AREA, SC = SILVA CELL, STA = SELF-TREATING AREA, FTP = FLOW-THROUGH PLANTER, GR = GREEN ROOF, PP = PERVIOUS PAVERS/PAVEMENT
**I=0.2 IN/HR BASED ON GUIDANCE FROM SCVURPPP TECHNICAL GUIDANCE HANDBOOK
***SIZED AT 5% OF IMPERVIOUS AREA AS A CONSERVATIVE ESTIMATE
****THIS TREATMENT AREA IS SIZED USING A VOLUME BASED CALCULATION PER ADOPTED CASQA STORMWATER BMP HANDBOOK APPROACH WITH AN ABOVE GROUND PONDING DEPTH OF 12" AND A 4'

SCHEMATIC DESIGN - ARB REVIEW

BRW ARCHITECTS

DATE JANUARY 31, 2023
DRAWN BY DL
CHECKED BY RS
BRW PROJECT NUMBER 222062.00

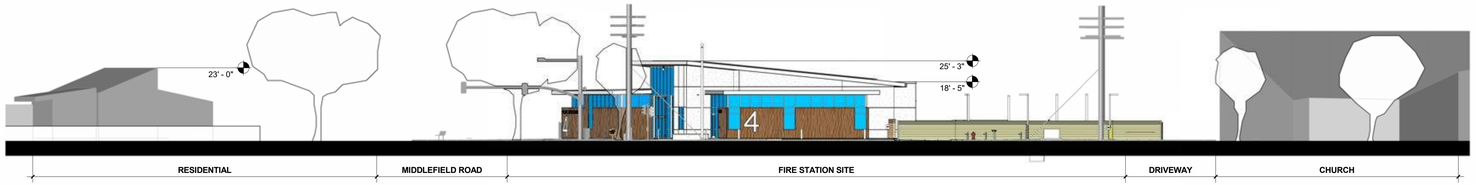
PALO ALTO FIRE STATION 4 REPLACEMENT

3600 MIDDLEFEILD ROAD
PALO ALTO, CA 94303

NO.	REVISION	DATE

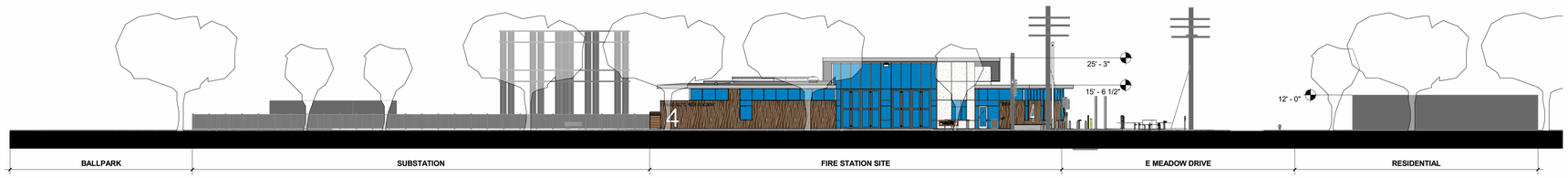
C-6

STORM WATER MANAGEMENT PLAN



1 STREETSCAPE ELEVATION - ALONG EAST MEADOW DRIVE

1" = 20'-0"



2 STREETSCAPE ELEVATION - ALONG MIDDLEFIELD ROAD

1" = 20'-0"

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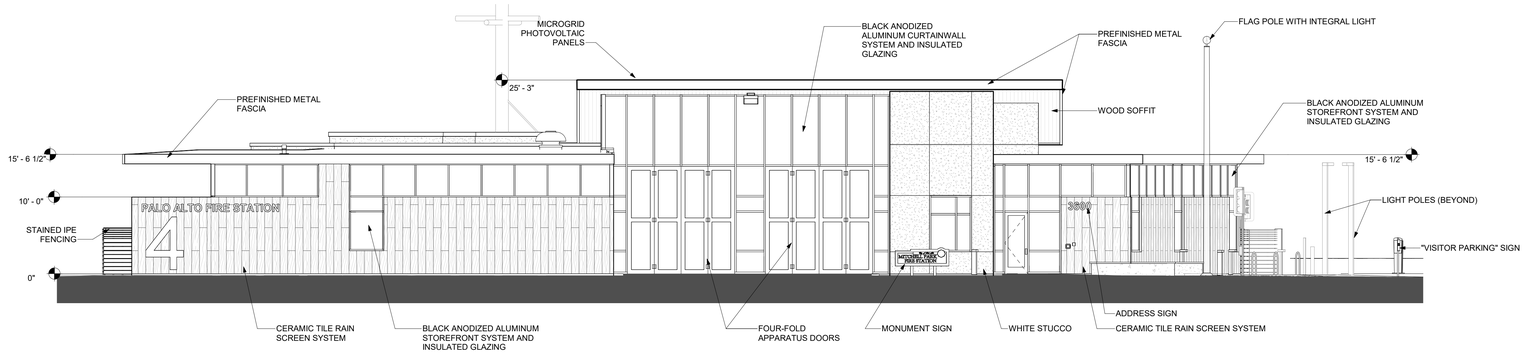
D-1

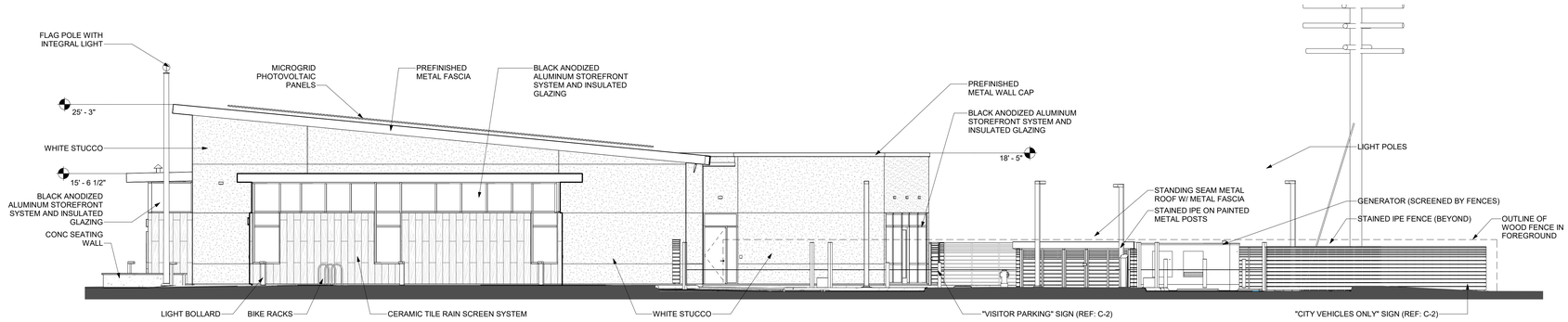
STREETSCAPE
RENDERING

JUNE 30, 2023



1 EXTERIOR ELEVATION (NORTH)

1/8" = 1'-0"

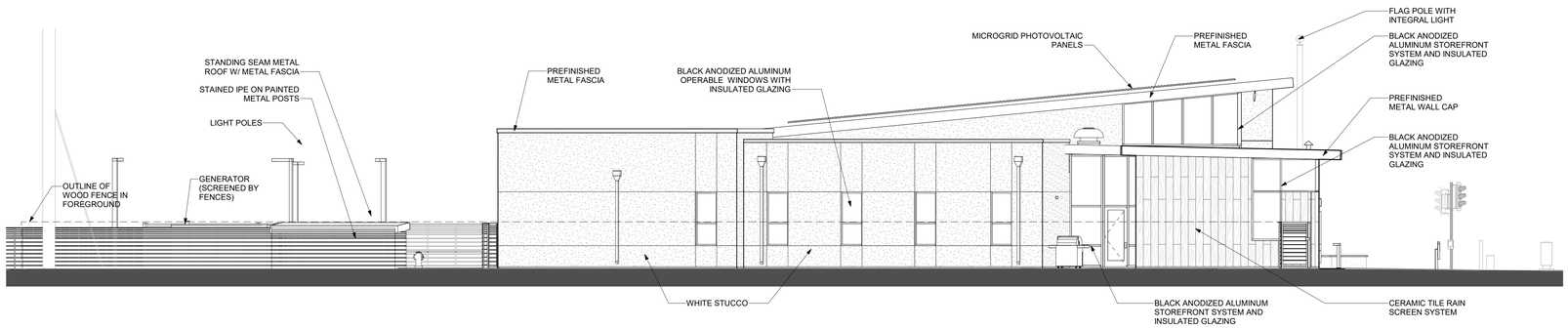


2 EXTERIOR ELEVATION (WEST)

1/8" = 1'-0"

3 EXTERIOR ELEVATION (SOUTH)

1/8" = 1'-0"



4 EXTERIOR ELEVATION (EAST)

1/8" = 1'-0"

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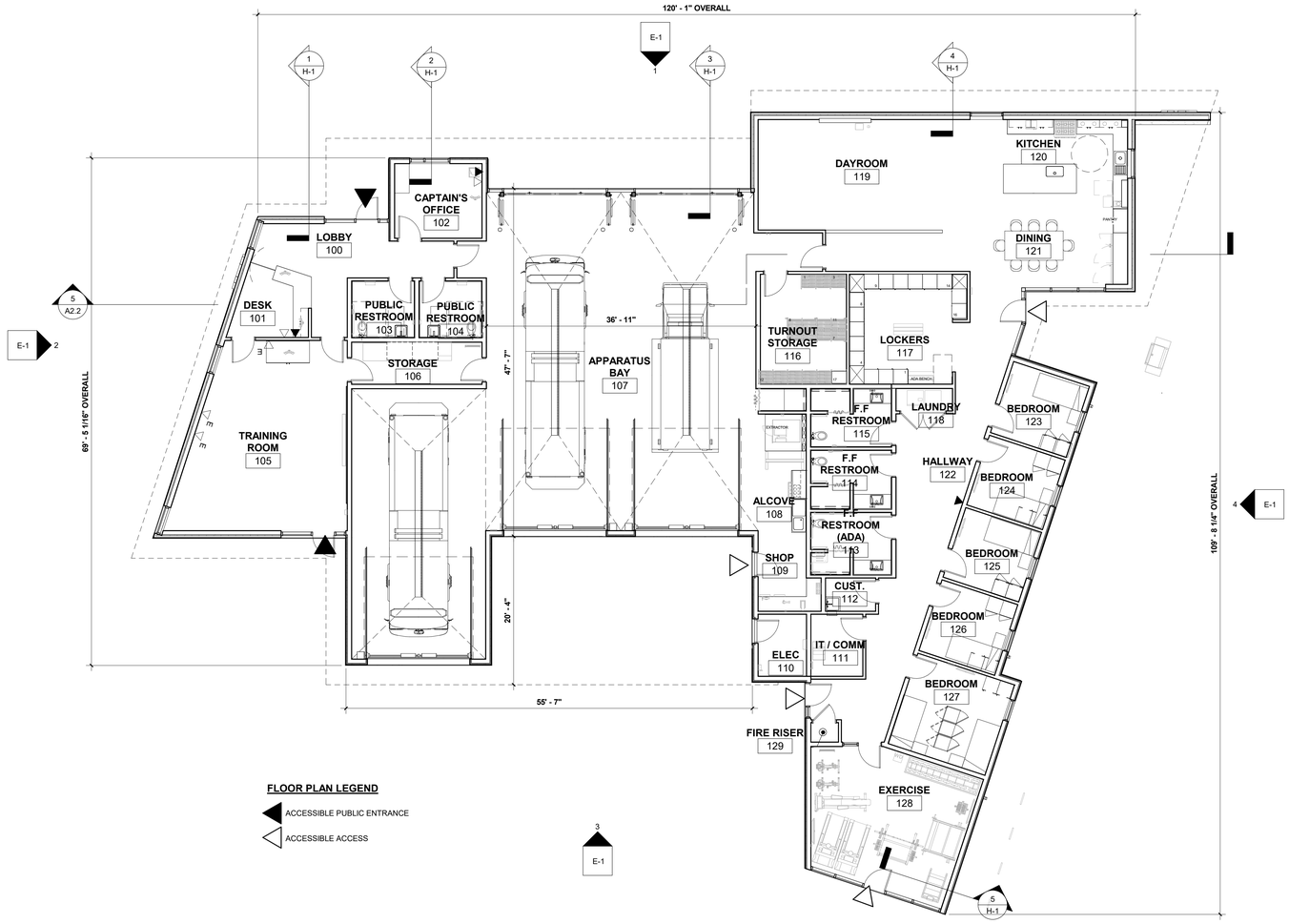
E-1

BUILDING ELEVATIONS

JUNE 30, 2023



PLAN NORT

1 FLOOR PLAN

1/8" = 1'-0"

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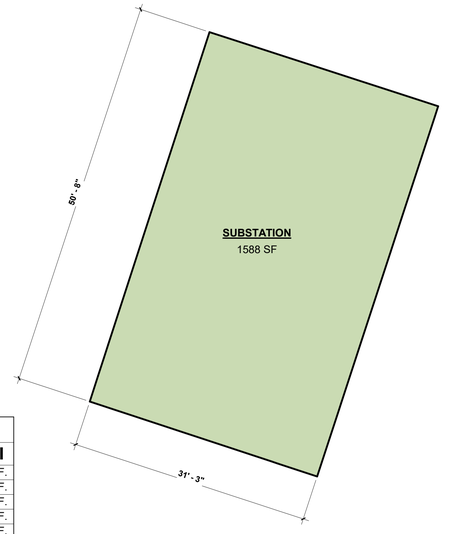
F-1

FLOOR PLAN

JULY 27, 2023



FAR SCHEDULE			
PROPOSED F.S.	**Calculation**	**Area**	**Level**
Area 1	1/2 (8'-10" x 27'-6")	123 SF	FIRST F.F.
Area 2	5'-3" x 27'-6"	145 SF	FIRST F.F.
Area 3	1/2 (5'-3" x 16'-6")	43 SF	FIRST F.F.
Area 4	12'-2" x 44'-0"	535 SF	FIRST F.F.
Area 5	19'-11" x 61'-4"	1220 SF	FIRST F.F.
Area 6	13'-6" x 8'-0"	110 SF	FIRST F.F.
Area 7	36'-3" x 47'-7"	1700 SF	FIRST F.F.
Area 8	52'-4" x 24'-6"	1283 SF	FIRST F.F.
Area 9	15'-7" x 53'-5"	833 SF	FIRST F.F.
Area 10	11'-8" x 17'-9"	208 SF	FIRST F.F.
Area 11	1/2 (11'-8" x 35'-8")	208 SF	FIRST F.F.
Area 12	1/2 (8'-4" x 25'-6")	107 SF	FIRST F.F.
Area 13	20'-2" x 33'-6"	676 SF	FIRST F.F.
Area 14	17'-4" x 42'-0"	721 SF	FIRST F.F.
Area 15	9'-2" x 2'-9"	25 SF	FIRST F.F.
Area 16	10'-1" x 4'-5"	44 SF	FIRST F.F.
Area 17	1/2 (0'-11" x 2'-9")	1 SF	FIRST F.F.
Area 18	1/2 (5'-5" x 1'-9")	5 SF	FIRST F.F.
Area 19	1/2 (3'-6" x 10'-8")	19 SF	FIRST F.F.
		8005 SF	
TRASH	4'-9" x 17'-5"	83 SF	FIRST F.F.
		83 SF	
SUBSTATION	31'-3" x 50'-8"	1588 SF	FIRST F.F.
		1588 SF	
TOTAL AREA:		9676 SF	

ALL DIMENSIONS ARE TO THE EXTERIOR FINISH FACE OF BUILDING.

PLAN NORT

1 FAR DIAGRAM

1/8" = 1'-0"

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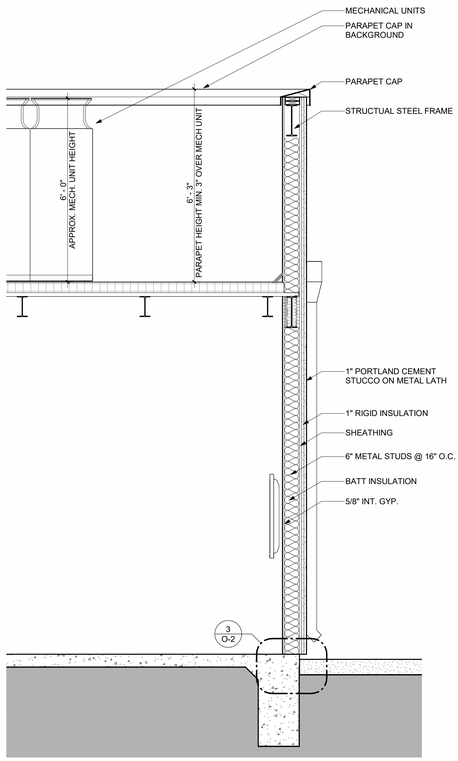
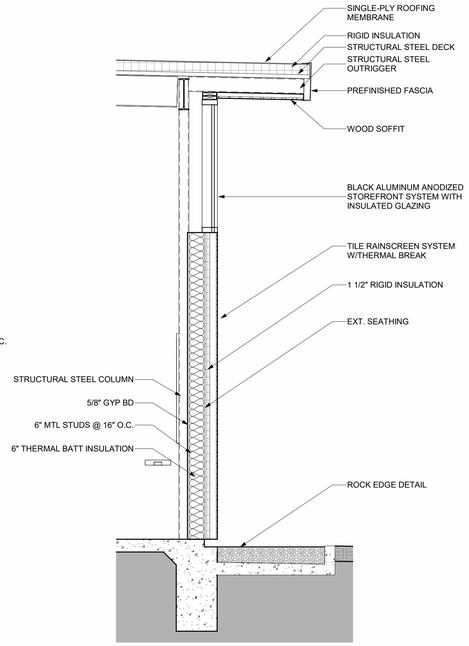
G-1

FAR DIAGRAM

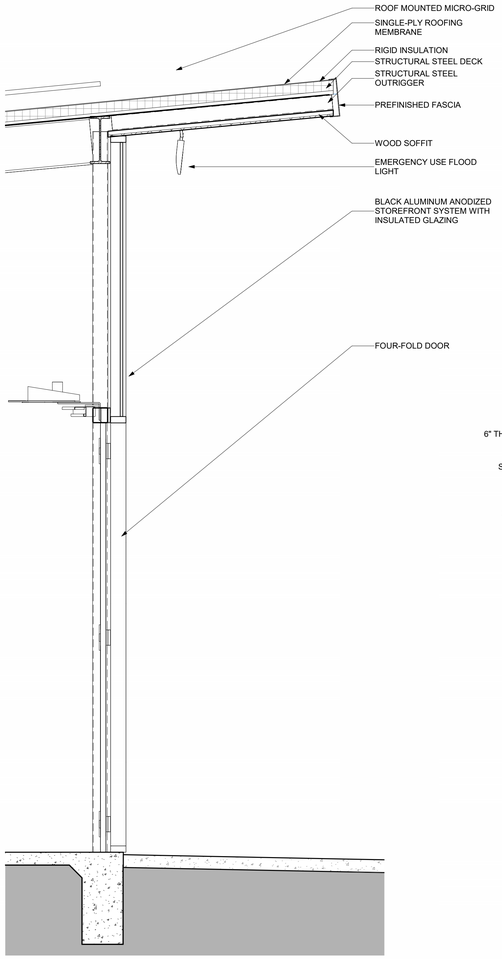
JULY 27, 2023



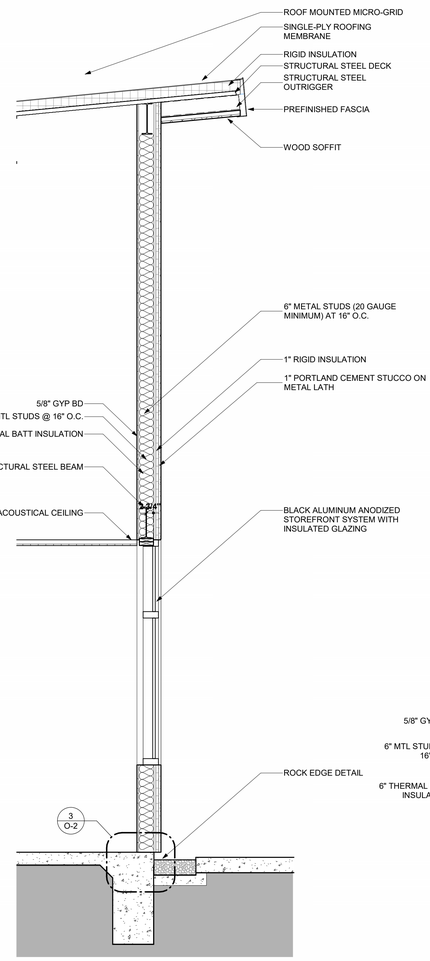
5 SC-WALL SECTION PARAPET
1/2" = 1'-0"



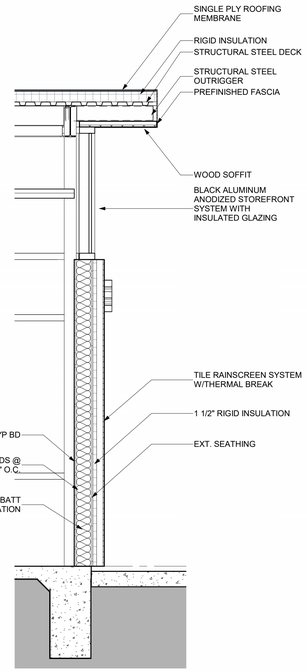
4 WALL SECTION
1/2" = 1'-0"



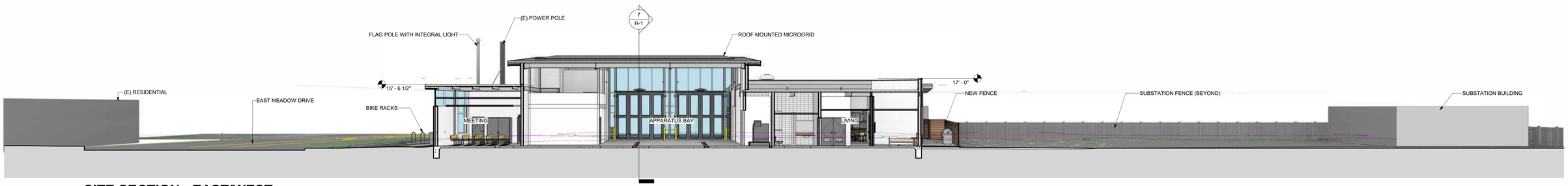
3 WALL SECTION
1/2" = 1'-0"



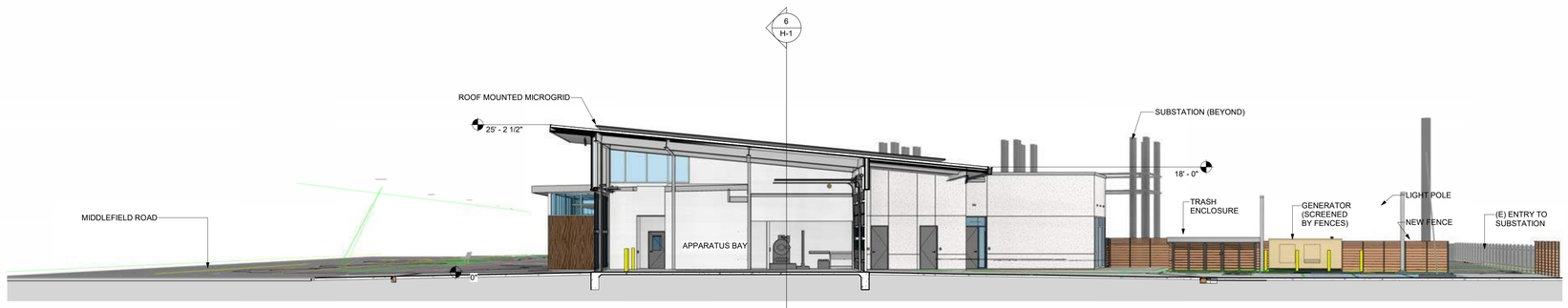
2 WALL SECTION
1/2" = 1'-0"



1 WALL SECTION
1/2" = 1'-0"



6 SITE SECTION - EAST/WEST
1" = 10'-0"



7 SITE SECTION - NORTH/SOUTH
1" = 10'-0"

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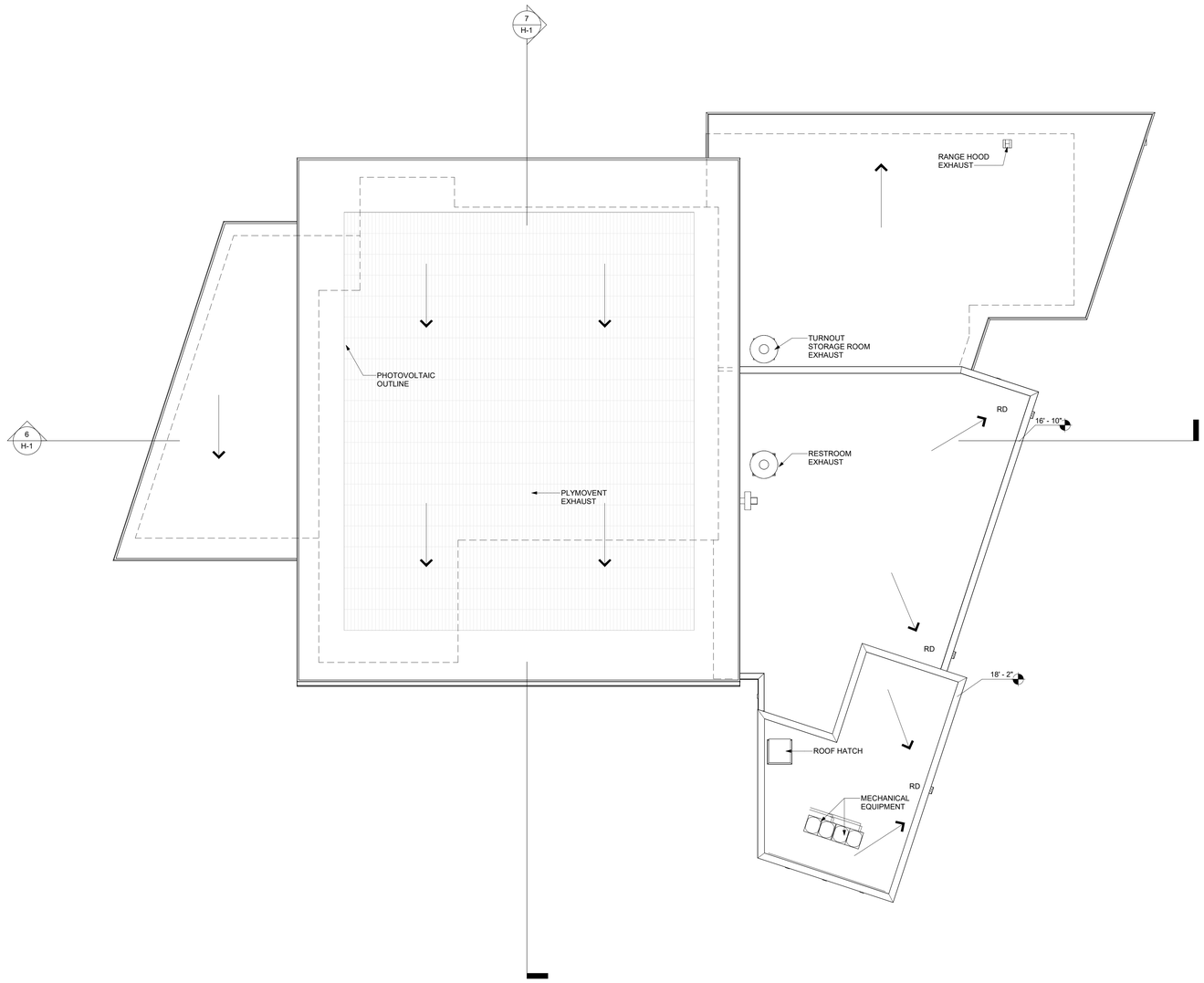
H-1

WALL SECTIONS

JUNE 30, 2023



PLAN NORT

1 ROOF PLAN

1/8" = 1'-0"

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I-1

ROOF PLAN

JULY 27, 2023

Irrigation System Note

- Irrigation system shall utilize domestic water supply and shall comply with the current City and State Model Water Efficient Landscape Ordinance (MWELO). Full construction documents with the required documentation including water efficient landscape worksheet, specific irrigation equipment, scheduling, soil analysis notes, etc. shall be provided for City review and approval prior to construction. Irrigation system shall be privately maintained and operated.

Proposed Plant Legend

Symbol	Botanical Name	Common Name	Size	H x W	Remarks	Wat. Use	Origins	Habitat Forming	Drought Tolerant	Quantity
Street, Accent & Specimen Trees										
ACE	Acer circinatum	Vine Maple	24" Box	25' h x 25' w	-	M	CA Native	All Pollinators	N	6
ACM	Acer macrophyllum	Bigleaf Maple	24" Box	40' h x 40' w	-	M	CA Native	Insects & Birds	N	-
ARB	Arbutus 'Marina'	Strawberry Tree	24" Box	20' h x 20' w	-	L	Mediterranean	-	Y	2
CER	Cercis occidentalis	Western Redbud	24" box	15' h x 15' w	-	VL	CA Native	All Pollinators	Y	7
COR	Cornus 'Eddies White Wonder'	Pacific Dogwood	24" box	20' h x 15' w	-	M	North America	-	N	1
HET	Heteromeles arbutifolia	Toyon	24" Box	10' h x 10' w	-	L	CA Native	All Pollinators	Y	4
LAU	Laurus nobilis 'Saratoga'	Bay Laurel	24" Box	25' h x 20' w	-	L	Mediterranean	-	Y	4
MAG	Magnolia stellata 'Royal Star'	Star Magnolia	24" Box	12' h x 10' w	-	M	Japan	-	N	4
PLA	Platanus racemosa	California Sycamore	24" Box	40' h x 30' w	-	M	CA Native	Butterflies	Y	4
QUA	Quercus agrifolia	Coast Live Oak	24" Box	45' h x 30' w	-	VL	CA Native	All Pollinators	Y	6
QUI	Quercus ilex	Holly Oak	24" Box	40' h x 40' w	-	L	Mediterranean	-	Y	-
QUS	Quercus suber	Cork Oak	24" Box	40' h x 40' w	-	L	Mediterranean	-	Y	1
Shrubs										
AM	Achillea x 'Moonshine'	Yarrow	5 gallon	2' h x 2' w	-	L	CA Native	All Pollinators	Y	48
AB	Agave 'Blue Flame'	Agave	5 gallon	2' h x 3' w	-	VL	North America	-	Y	4
BG	Bouteloua gracilis	Blue Grama Grass	5 gallon	2' h x 2.5' w	-	L	CA Native	Insects & Birds	Y	48
CT	Carex tumulicola	Berkeley Sedge	1 gallon	1' h x 2' w	-	L	CA Native	Butterflies & Moths	Y	38
CM	Ceanothus maritimus 'Valley Violet'	California Mountain Lilac	5 gallon	2' h x 3' w	-	L	CA Native	Insects & Birds	Y	14
EW	Erigeron 'Wayne Roderick'	Seaside Daisy	1 gallon	1' h x 2' w	-	M	CA Native	All Pollinators	Y	36
EG	Eriogonum grande var. rubescens	Red Buckwheat	5 gallon	1' h x 3' w	-	L	CA Native	Insects & Birds	Y	10
HR	Heuchera 'Rosada'	Hybrid Coral Bell	1 gallon	2' h x 2' w	-	M	CA Native	Butterflies & Moths	N	11
LG	Lavandula x ginginsii 'Goodwin Creek'	English Lavender	5 gallon	2' h x 3' w	-	L	North America	-	Y	16
LL	Leonotis leonurus	Lion's Tail	5 gallon	4' h x 4' w	-	L	South Africa	-	Y	17
LB	Lomandra 'Breeze'	Dwarf Mat Rush	5 gallon	2' h x 3' w	-	L	Australia	-	Y	21
RS	Ribes sanguineum	Pink Flowered Currant	5 gallon	5' h x 5' w	-	L	CA Native	Insects & Birds	Y	20
SJ	Spiraea japonica 'Painted Lady'	Double Play Painted Lady Spirea	5 gallon	3' h x 3' w	-	M	Japan	-	Y	14
TF	Teucrium fruticans 'Azureum'	Bush Germander	5 gallon	3' h x 4' w	-	L	Mediterranean	-	Y	20
Groundcover										
B	Baccharis pilularis 'Pigeon Point'	Pigeon Point Dwarf Coyote Brush	1 gallon	1.5' h x 6' w	72" o.c. spacing	L	CA Native	All Pollinators	Y	30
E	Epilobium 'Select Mattole'	California Fuchsia	1 gallon	1' h x 3' w	36" o.c. spacing	L	CA Native	Hummingbirds	Y	52
R	Rosa 'Meistentmil'	Lemon Drift Rose	2 gallon	1.5' h x 2.5' w	24" o.c. spacing	L	North America	-	Y	20
W	Westringia fruticosa 'Mundi'	Low Coast Rosemary	1 gallon	2' h x 6' w	72" o.c. spacing	L	Australia	-	Y	24
Bioretention										
S	Biofiltration Sod	Biofiltration Sod by Delta Bluegrass Co.				H	-	-	-	-

Note: Proposed shrub and tree legend are subject to change. Some trees noted in this legend may not be use. Legend is provided to show design intent. Final tree and shrub selection to be made during construction document phase. Final planting design shall follow all native plant and drought tolerant requirements.

Project Elements Legend

1. Existing 5' concrete sidewalk, curb, and gutter per Architect's Plans, typ.
2. Concrete paving per Architect's plans, typ.
3. Asphalt paving per Architect's plans, typ.
4. Existing utilities per Architect's Plans, typ.
5. Existing street tree to remain, typ of 4 trees.
6. Site visibility triangle, typ.
7. Adjacent Electrical Utilities Yard.
8. Parking lot with accessible spaces per Architect's Plans, typ.
9. Entry plaza with enhanced paving and seatwalls.
10. Bike rack, typ.
11. Decorative landscape boulders repurposed from site, typ.
12. Bioretention basin with approved planting media per standards. Sized per Civil Engineer's plans.
13. New Site trees intended for mitigation of removed trees, typ.
14. Multi-stem Native Oak Specimen Tree with Accent Lighting.
15. Vertical accent shrub, typ.
16. Planting area, typ.
17. Decomposed granite paving.
18. Utility clearance zone, typ. No trees shall be planted within the overhead utility clearance zone.
19. Flag pole with light mounted on Concrete pad.
20. Fire Station Sign, per Architect's plans.

0' 10' 20' 30'
Scale 1"=10'-0"

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PALO ALTO FIRE STATION NO.4 REPLACEMENT
3600 MIDDLEFEILD ROAD
PALO ALTO, CA 94303

J-1
LANDSCAPE PLAN

JUNE 27, 2023

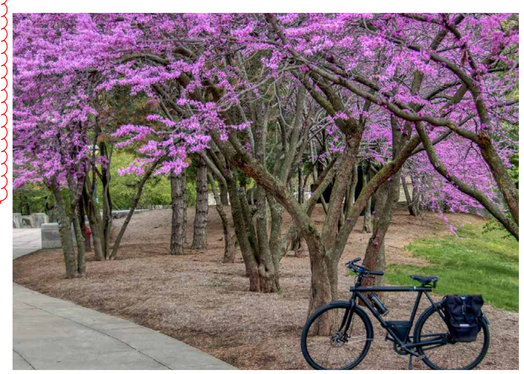
Proposed Plant Legend

Symbol	Botanical Name	Common Name	Size	H x W	Remarks	Wat. Use	Origins	Habitat Forming	Drought Tolerant	Quantity
Street, Accent & Specimen Trees										
ACE	Acer circinatum	Vine Maple	24" Box	25' h x 25' w	-	M	CA Native	All Pollinators	N	6
ACM	Acer macrophyllum	Bigleaf Maple	24" Box	40' h x 40' w	-	M	CA Native	Insects & Birds	N	-
ARB	Arbutus 'Marina'	Strawberry Tree	24" Box	20' h x 20' w	-	L	Mediterranean	-	Y	2
CER	Cercis occidentalis	Western Redbud	24" box	15' h x 15' w	-	VL	CA Native	All Pollinators	Y	7
COR	Cornus 'Eddies White Wonder'	Pacific Dogwood	24" box	20' h x 15' w	-	M	North America	-	N	1
HET	Heteromeles arbutifolia	Toyon	24" Box	10' h x 10' w	-	L	CA Native	All Pollinators	Y	4
LAU	Laurus nobilis 'Saratoga'	Bay Laurel	24" Box	25' h x 20' w	-	L	Mediterranean	-	Y	4
MAG	Magnolia stellata 'Royal Star'	Star Magnolia	24" Box	12' h x 10' w	-	M	Japan	-	N	4
PLA	Platanus racemosa	California Sycamore	24" Box	40' h x 30' w	-	M	CA Native	Butterflies	Y	4
QUA	Quercus agrifolia	Coast Live Oak	24" Box	45' h x 30' w	-	VL	CA Native	All Pollinators	Y	6
QUI	Quercus ilex	Holly Oak	24" Box	40' h x 40' w	-	L	Mediterranean	-	Y	-
QUS	Quercus suber	Cork Oak	24" Box	40' h x 40' w	-	L	Mediterranean	-	Y	1
Shrubs										
AM	Achillea x 'Moonshine'	Yarrow	5 gallon	2' h x 2' w	-	L	CA Native	All Pollinators	Y	48
AB	Agave 'Blue Flame'	Agave	5 gallon	2' h x 3' w	-	VL	North America	-	Y	4
BG	Bouteloua gracilis	Blue Grama Grass	5 gallon	2' h x 2.5' w	-	L	CA Native	Insects & Birds	Y	48
CT	Carex tumulicola	Berkeley Sedge	1 gallon	1' h x 2' w	-	L	CA Native	Butterflies & Moths	Y	38
CM	Ceanothus maritimus 'Valley Violet'	California Mountain Lilac	5 gallon	2' h x 3' w	-	L	CA Native	Insects & Birds	Y	14
EW	Erigeron 'Wayne Roderick'	Seaside Daisy	1 gallon	1' h x 2' w	-	M	CA Native	All Pollinators	Y	36
EG	Eriogonum grande var. rubescens	Red Buckwheat	5 gallon	1' h x 3' w	-	L	CA Native	Insects & Birds	Y	10
HR	Heuchera 'Rosada'	Hybrid Coral Bell	1 gallon	2' h x 2' w	-	M	CA Native	Butterflies & Moths	N	11
LG	Lavandula x ginginsii 'Goodwin Creek'	English Lavender	5 gallon	2' h x 3' w	-	L	North America	-	Y	16
LL	Leonotis leonurus	Lion's Tail	5 gallon	4' h x 4' w	-	L	South Africa	-	Y	17
LB	Lomandra 'Breeze'	Dwarf Mat Rush	5 gallon	2' h x 3' w	-	L	Australia	-	Y	21
RS	Ribes sanguineum	Pink Flowered Currant	5 gallon	5' h x 5' w	-	L	CA Native	Insects & Birds	Y	20
SJ	Spiraea japonica 'Painted Lady'	Double Play Painted Lady Spirea	5 gallon	3' h x 3' w	-	M	Japan	-	Y	14
TF	Teucrium fruticans 'Azureum'	Bush Germander	5 gallon	3' h x 4' w	-	L	Mediterranean	-	Y	20
Groundcover										
B	Baccharis pilularis 'Pigeon Point'	Pigeon Point Dwarf Coyote Brush	1 gallon	1.5' h x 6' w	72" o.c. spacing	L	CA Native	All Pollinators	Y	30
E	Epilobium 'Select Mattole'	California Fuchsia	1 gallon	1' h x 3' w	36" o.c. spacing	L	CA Native	Hummingbirds	Y	52
R	Rosa 'Meistentmil'	Lemon Drift Rose	2 gallon	1.5' h x 2.5' w	24" o.c. spacing	L	North America	-	Y	20
W	Westringia fruticosa 'Mundi'	Low Coast Rosemary	1 gallon	2' h x 6' w	72" o.c. spacing	L	Australia	-	Y	24
Bioretention										
S	Biofiltration Sod	Biofiltration Sod by Delta Bluegrass Co.				H	-	-	-	-

Note: Proposed shrub and tree legend are subject to change. Some trees noted in this legend may not be use. Legend is provided to show design intent. Final tree and shrub selection to be made during construction document phase. Final planting design shall follow all native plant and drought tolerant requirements.

Precedent Imagery

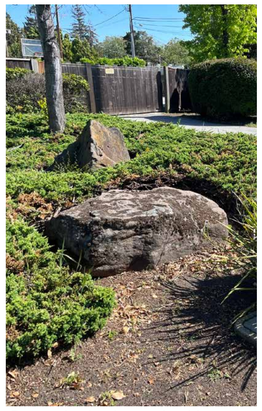
Bioretention with biofiltration sod



Mitigation native tree grove

Native and low water use plantings

Cast in place seatwall with wood bench topper



Decorative landscape boulder repurposed from site

Planting - Groundcover

Baccharis pilularis ‘Pigeon Point’ / Dwarf Coyote Brush

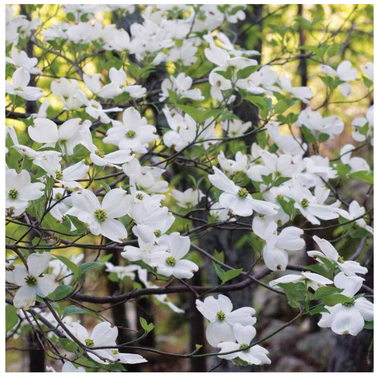
Epilobium ‘Select Mattole’ / California Fuchsia

Westringia fruticosa ‘Mundi’ / Low Coast Rosemary

Planting - Trees and Shrubs

Acer circinatum / Vine Maple

Arbutus ‘Marina’ / Strawberry Tree



Cornus nuttallii / Pacific Dogwood

Quecus agrifolia / Coast Live Oak

Achilea x ‘Moonshine’ / Yarrow

Agave ‘Blue Flame’ / Agave

Carex tumulicola / Berkeley Sedge

Ceanothus ‘Valley Violet’ / California Mountain Lilac

Erigeron ‘Wayne Roderick’ / S easide Daisy

Heuchera ‘Rosada’ / Hybrid Coral Bell

Leonotis leonurus / Lion’s Tail

Ribes sanguineum / Pink Flower Currant

Teucrium fruticans ‘Azureum’ / Bush Germander

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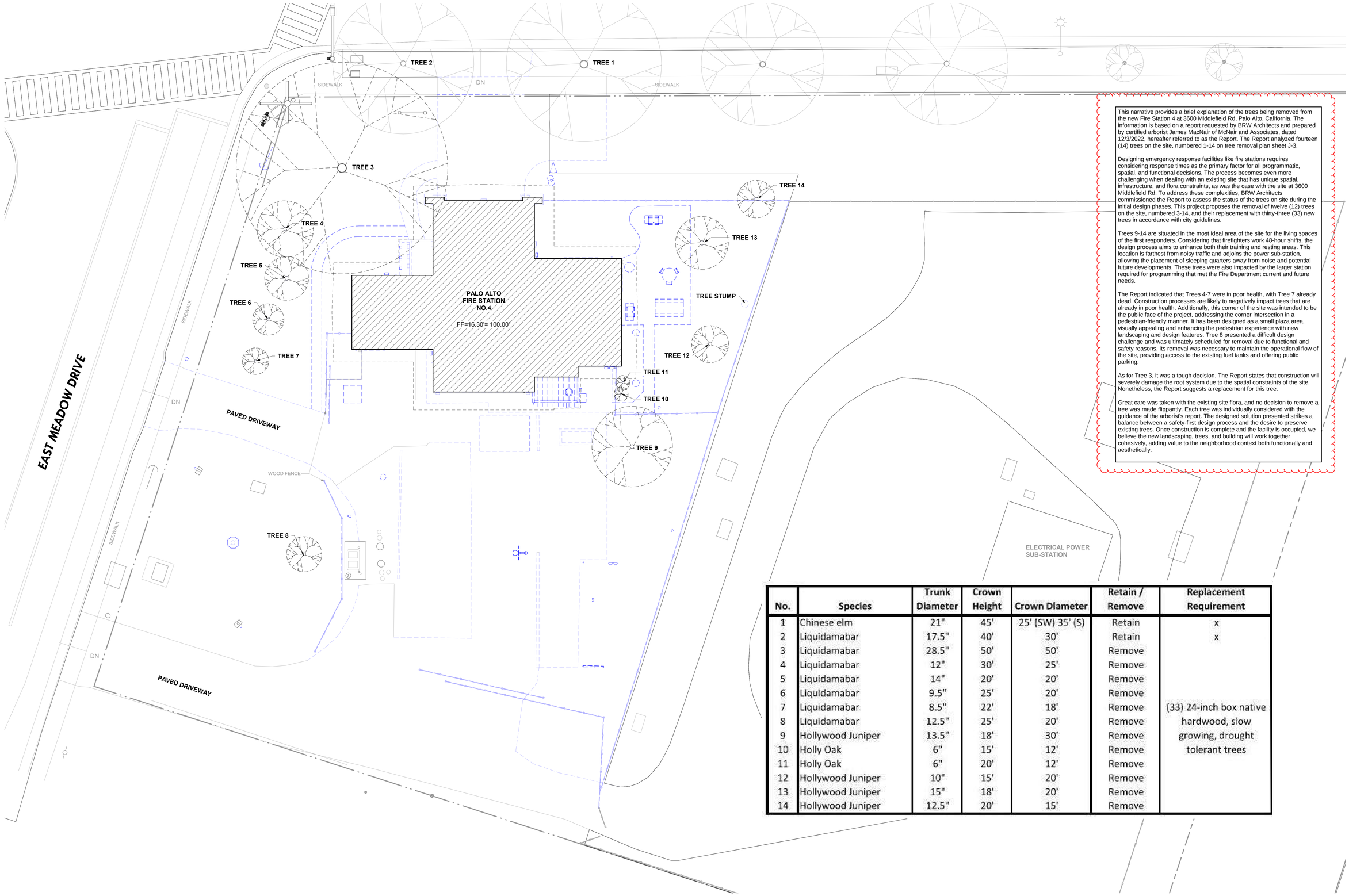
PALO ALTO FIRE STATION NO.4 REPLACEMENT

3600 MIDDLEFIELD ROAD
PALO ALTO, CA 94303

J-2

PLANTING LEGENDS, NOTES, AND PHOTOS

JUNE 27, 2023



This narrative provides a brief explanation of the trees being removed from the new Fire Station 4 at 3600 Middlefield Rd, Palo Alto, California. The information is based on a report requested by BRW Architects and prepared by certified arborist James MacNair of McNair and Associates, dated 12/3/2022, hereafter referred to as the Report. The Report analyzed fourteen (14) trees on the site, numbered 1-14 on tree removal plan sheet J-3.

Designing emergency response facilities like fire stations requires considering response times as the primary factor for all programmatic, spatial, and functional decisions. The process becomes even more challenging when dealing with an existing site that has unique spatial, infrastructure, and flora constraints, as was the case with the site at 3600 Middlefield Rd. To address these complexities, BRW Architects commissioned the Report to assess the status of the trees on site during the initial design phases. This project proposes the removal of twelve (12) trees on the site, numbered 3-14, and their replacement with thirty-three (33) new trees in accordance with city guidelines.

Trees 9-14 are situated in the most ideal area of the site for the living spaces of the first responders. Considering that firefighters work 48-hour shifts, the design process aims to enhance both their training and resting areas. This location is farthest from noisy traffic and adjoins the power sub-station, allowing the placement of sleeping quarters away from noise and potential future developments. These trees were also impacted by the larger station required for programming that met the Fire Department current and future needs.

The Report indicated that Trees 4-7 were in poor health, with Tree 7 already dead. Construction processes are likely to negatively impact trees that are already in poor health. Additionally, this corner of the site was intended to be the public face of the project, addressing the corner intersection in a pedestrian-friendly manner. It has been designed as a small plaza area, visually appealing and enhancing the pedestrian experience with new landscaping and design features. Tree 8 presented a difficult design challenge and was ultimately scheduled for removal due to functional and safety reasons. Its removal was necessary to maintain the operational flow of the site, providing access to the existing fuel tanks and offering public parking.

As for Tree 3, it was a tough decision. The Report states that construction will severely damage the root system due to the spatial constraints of the site. Nonetheless, the Report suggests a replacement for this tree.

Great care was taken with the existing site flora, and no decision to remove a tree was made flippantly. Each tree was individually considered with the guidance of the arborist's report. The designed solution presented strikes a balance between a safety-first design process and the desire to preserve existing trees. Once construction is complete and the facility is occupied, we believe the new landscaping, trees, and building will work together cohesively, adding value to the neighborhood context both functionally and aesthetically.

No.	Species	Trunk Diameter	Crown Height	Crown Diameter	Retain / Remove	Replacement Requirement
1	Chinese elm	21"	45'	25' (SW) 35' (S)	Retain	x
2	Liquidamabar	17.5"	40'	30'	Retain	x
3	Liquidamabar	28.5"	50'	50'	Remove	
4	Liquidamabar	12"	30'	25'	Remove	
5	Liquidamabar	14"	20'	20'	Remove	
6	Liquidamabar	9.5"	25'	20'	Remove	
7	Liquidamabar	8.5"	22'	18'	Remove	(33) 24-inch box native hardwood, slow growing, drought tolerant trees
8	Liquidamabar	12.5"	25'	20'	Remove	
9	Hollywood Juniper	13.5"	18'	30'	Remove	
10	Holly Oak	6"	15'	12'	Remove	
11	Holly Oak	6"	20'	12'	Remove	
12	Hollywood Juniper	10"	15'	20'	Remove	
13	Hollywood Juniper	15"	18'	20'	Remove	
14	Hollywood Juniper	12.5"	20'	15'	Remove	

PLAN NORTH TRUE NORTH

1 TREE REMOVAL PLAN
1" = 10'-0"

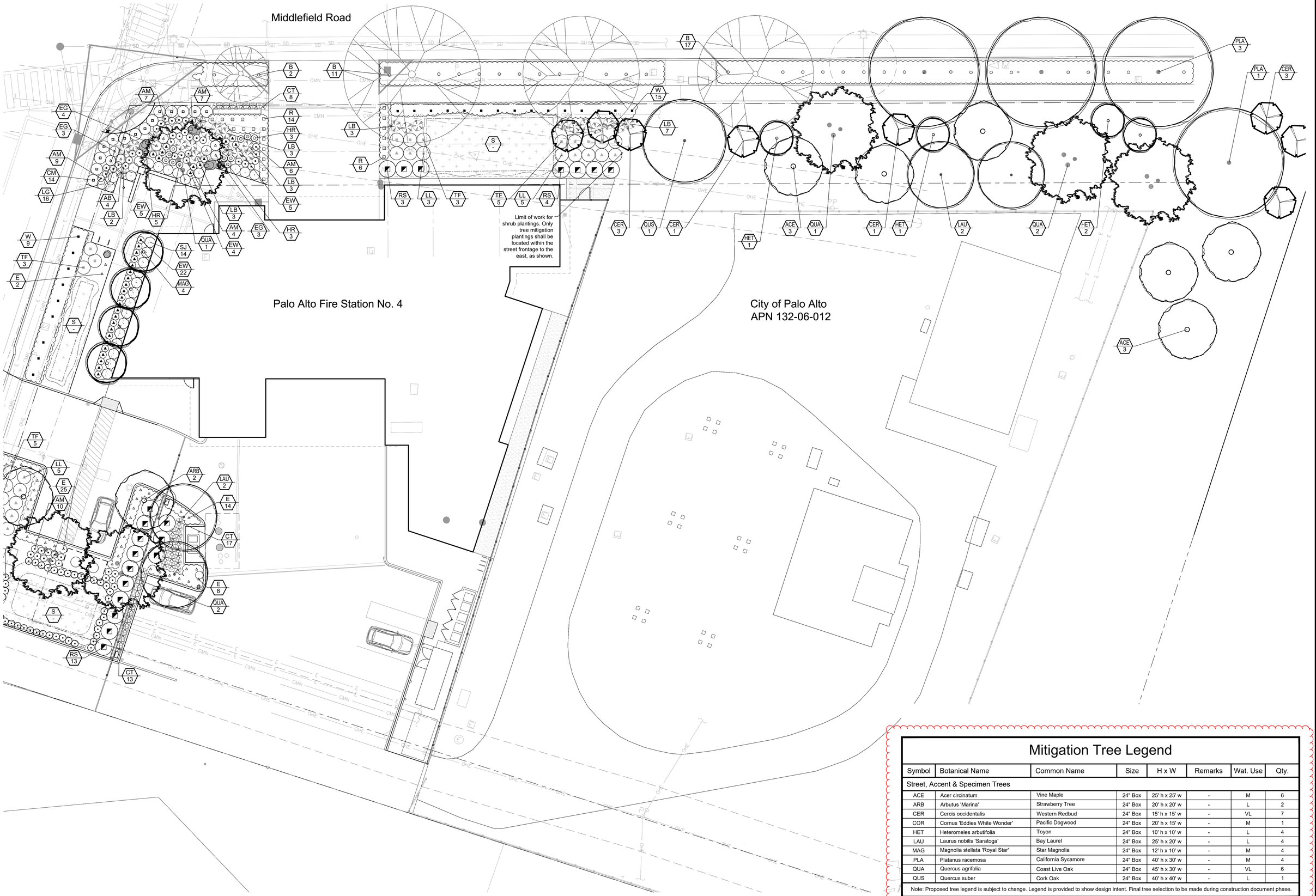
BROWN REYNOLDS WATFORD ARCHITECTS
1620 MONTGOMERY
SUITE 320
SAN FRANCISCO, CA 94111
415.749.2670
WWW.BRWARCH.COM

CITY OF PALO ALTO
FIRE STATION NO.4

3600 MIDDLEFIELD RD
PALO ALTO, CA 94303

J-3
TREE REMOVAL PLAN

JUNE 12, 2023



Mitigation Tree Legend

Symbol	Botanical Name	Common Name	Size	H x W	Remarks	Wat. Use	Qty.
Street, Accent & Specimen Trees							
ACE	Acer circinatum	Vine Maple	24" Box	25' h x 25' w	-	M	6
ARB	Arbutus 'Marina'	Strawberry Tree	24" Box	20' h x 20' w	-	L	2
CER	Cercis occidentalis	Western Redbud	24" Box	15' h x 15' w	-	VL	7
COR	Cornus 'Eddies White Wonder'	Pacific Dogwood	24" Box	20' h x 15' w	-	M	1
HET	Heteromeles arbutifolia	Toyon	24" Box	10' h x 10' w	-	L	4
LAU	Laurus nobilis 'Saratoga'	Bay Laurel	24" Box	25' h x 20' w	-	L	4
MAG	Magnolia stellata 'Royal Star'	Star Magnolia	24" Box	12' h x 10' w	-	M	4
PLA	Platanus racemosa	California Sycamore	24" Box	40' h x 30' w	-	M	4
QUA	Quercus agrifolia	Coast Live Oak	24" Box	45' h x 30' w	-	VL	6
QUS	Quercus suber	Cork Oak	24" Box	40' h x 40' w	-	L	1

Note: Proposed tree legend is subject to change. Legend is provided to show design intent. Final tree selection to be made during construction document phase.

0' 10' 20' 30'
Scale 1"=10'-0"
46623

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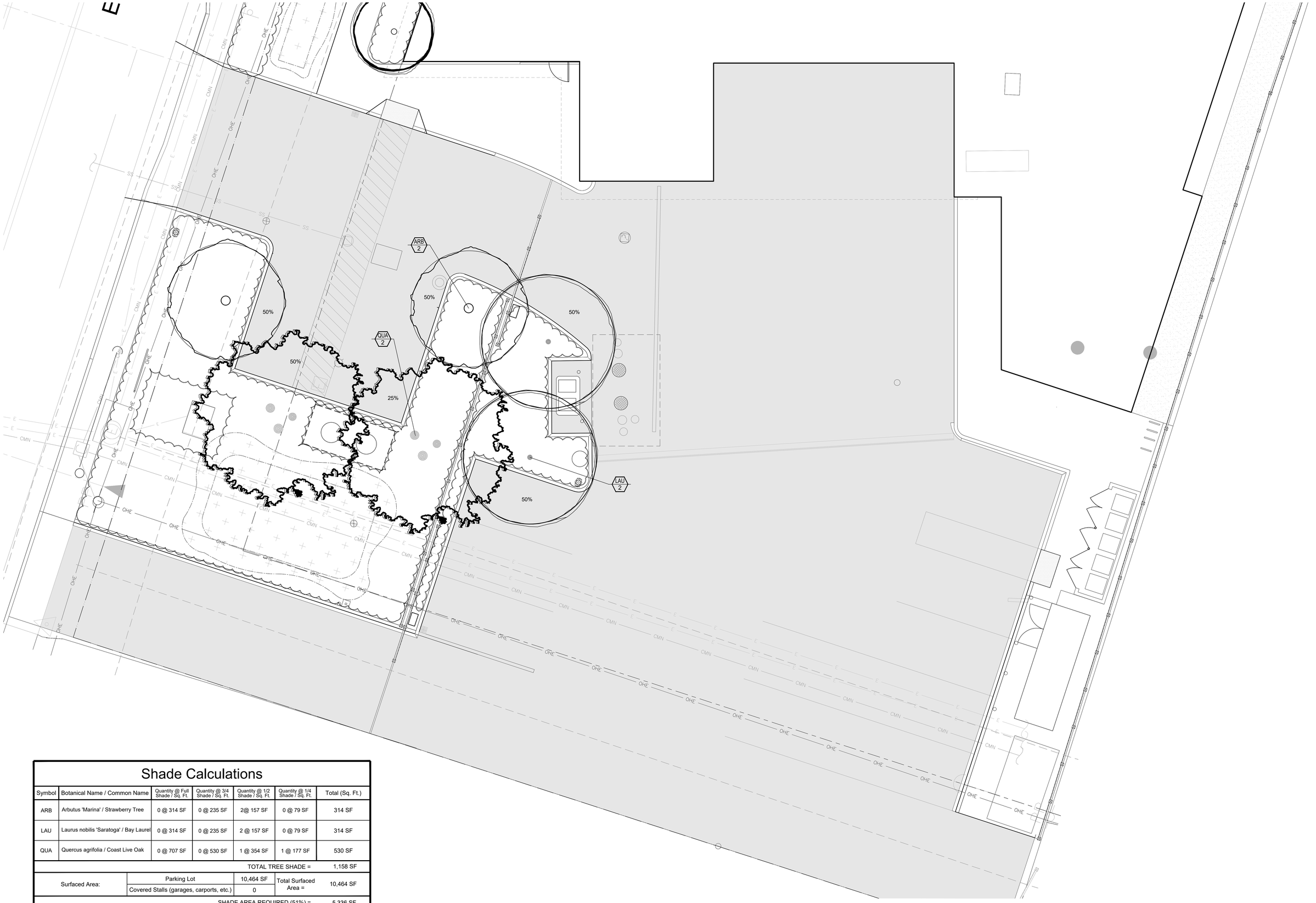
PALO ALTO FIRE STATION NO.4 REPLACEMENT

3600 MIDDLEFIELD ROAD
PALO ALTO, CA 94303

J-4

TREE MITIGATION PLAN

JUNE 27, 2023



Shade Calculations

Symbol	Botanical Name / Common Name	Quantity @ Full Shade / Sq. Ft.	Quantity @ 3/4 Shade / Sq. Ft.	Quantity @ 1/2 Shade / Sq. Ft.	Quantity @ 1/4 Shade / Sq. Ft.	Total (Sq. Ft.)
ARB	Arbutus 'Marina' / Strawberry Tree	0 @ 314 SF	0 @ 235 SF	2@ 157 SF	0 @ 79 SF	314 SF
LAU	Laurus nobilis 'Saratoga' / Bay Laurel	0 @ 314 SF	0 @ 235 SF	2 @ 157 SF	0 @ 79 SF	314 SF
QUA	Quercus agrifolia / Coast Live Oak	0 @ 707 SF	0 @ 530 SF	1 @ 354 SF	1 @ 177 SF	530 SF
					TOTAL TREE SHADE =	1,158 SF
Surfaced Area:	Parking Lot			10,464 SF	Total Surfaced Area =	10,464 SF
	Covered Stalls (garages, carports, etc.)			0		
					SHADE AREA REQUIRED (51%) =	5,336 SF
					TOTAL SHADE PROVIDED =	1,158 SF
					PERCENT SHADE =	11%

0' 5' 10' 15'
Scale 1"=5'-0"

46623

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PALO ALTO, CA 94303

J-5

PARKING LOT SHADE CALCULATION PLAN

JULY 27, 2023

Tree Images:

Tree #1, a Chinese elm.

The area where the planter will be reduced to allow for widening of the driveway (see site plan). Note sidewalk repair that likely removed roots causing displacement.

Tree #2, a liquidambar. No significant impact expected from driveway work.

Trunk seam from old wound.

Sidewalk repair near tree #2.

Tree #3, a mature liquidambar, that is subject to the most construction impact. The arrows indicate the scaffold limbs subject to significant pruning for clearance for the building expansion.

The closely spaced, multiple limb attachments with inclusions. Mature liquidambars are prone to sudden limb failure.

The dense surface rooting typical of this species.

Surface roots extend 30 feet from the base of the tree. This area will be excavated for the new building foundation.

Tree #4, a liquidambar in poor condition.

Tree #5, a liquidambar in poor condition.

Tree #6, a liquidambar in poor condition.

Tree #7, a liquidambar that is dead.

Tree #8, a liquidambar in good condition.

Tree #9, a Hollywood juniper in moderate condition.

Trees #10 and #11, two small holly oaks in fair condition.

Tree #12, a Hollywood juniper in poor to fair condition.

Tree #13, a Hollywood juniper in poor to fair condition. The trunk diameter qualifies the tree as protected status.

Tree #14, a Hollywood juniper in fair condition

Palo Alto Fire Station No. 4- Tree Data Matrix
Tree Evaluation and Construction Impact Assessment

Health and Structural Rating Key: 3.0 = moderate or better condition
2.5 = marginal to moderate
2.0 = marginal condition
1.5 = poor to marginal condition
1.0 = poor condition

Suitability for Preservation Ratings: **Good**: Trees in good health and structural condition with high potential for longevity.
Moderate: Trees in fair health and/or with structural defects that can be abated with treatment.
Fair: Trees in marginal health or structural condition that could possibly be mitigated or improved.
Poor: Trees in poor health and/or structural condition that probably cannot be effectively abated.

Tree #	Species	Trunk Diameter @ 54" (inches)	# of Trunks	Crown Height	Crown Diameter	Health Rating	Structural Rating	Comments/Observations	Suitability for Preservation (Based Upon Condition)	Protected Tree Status	Tree Protection Zone (Radius in Feet)	Construction Impact Assessment
1	Chinese elm (*Ulmus parvifolia*)	21"	1	45'±	25' (SW) 35' (S)	3.0	3.0	Mature tree with symmetrical crown form and open scaffold limb structure. No significant structural defects observed. Vigor and foliage density are normal. History of sidewalk repairs. Live water line nearby and adjacent to high voltage electrical distribution lines. Tree has been side-pruned for electrical line clearance.	Good	Protected	23'	Limited root impact possible at north end of planter due expansion of the driveway. Root pruning procedures required. Root barrier installation recommended.
2	liquidambar (*Liquidambar styraciflua*)	17.5"	1	40'±	30'±	3.0	2.5	Mature tree with upright crown form. Trunk seam present on northwest side of tree at 5' to 7' above grade. vigor and foliage density are normal. History of sidewalk repairs. Adjacent to high voltage electrical distribution lines. Tree has been pruned for electrical line clearance.	Moderate	Protected	20'	Possible minor root impacts at south end of planter at driveway. Root pruning procedures required. Root barrier installation recommended.

Tree #	Species	Trunk Diameter @ 54" (inches)	# of Trunks	Crown Height	Crown Diameter	Health Rating	Structural Rating	Comments/Observations	Suitability for Preservation (Based Upon Condition)	Protected Tree Status	Tree Protection Zone (Radius in Feet)	Construction Impact Assessment
3	liquidambar	28.5" at 48" = d.	1	45'-50'±	50' (26' towards building)	2.5	2.0	Mature tree with symmetrical crown form. Closely spaced, multiple limb attachments from at 5' to 8' with some included attachments. Dense surface rooting extended 30' towards existing building. Vigor and foliage density are moderate with sporadic branch dieback occurring.	Fair	Protected	30'	Significant root pruning and clearance pruning required. Refer to discussion in report (page 2).
4	liquidambar	12"	1	30'±	25'±	1.0	2.5	Narrow crown form with co-dominant trunks forming at 6'. Significant branch dieback on northwest side and mid-crown.	Poor	No	N/A	Located within future construction limits. Removal required.
5	liquidambar	14"	1	20'±	20'±	1.0	1.0	Previously topped tree with closely spaced, multiple limb attachments forming at 5'. Extensive crown dieback.	Poor	No	N/A	Located within future construction limits. Removal required.
6	liquidambar	9.5"	1	25'±	20'±	1.5	2.0	Small tree with significant trunk dieback and sporadic limb dieback.	Poor	No	N/A	Located within future construction limits. Removal required.
7	liquidambar	8.5"	1	22'±	18'±	1.0	1.0	Tree is dead, or mostly dead.	Poor	No	N/A	Located within future construction limits. Removal required.
8	liquidambar	12.5"	1	25'±	20'±	2.5	3.0	Semi-mature tree with single trunk structure. Limited upper crown branch dieback occurring. Vigor and foliage density are moderate.	Good	No	N/A	Located near underground tank. Removal required.
9	Hollywood juniper (*Juniperus chinensis 'Torulosa'*	13.5" (tree)	1	18'±	30'±	2.5	3.0	Mature tree/shrub with no significant structural defects. Limited branch dieback occurring.	Moderate	No	N/A	Located within future construction limits. Removal required.
10	holly oak (*Quercus ilex*)	6"	1	15'±	12'±	2.5	2.5	Small tree growing next to tree #11. Asymmetrical crown form extending to the northwest. Foliage has severe sooty mold.	Fair	No	N/A	Located within future construction limits. Removal required.
11	holly oak	6"	1	20'±	12'±	2.5	2.5	upright crown form with no significant structural defects. Aphid infestation and sooty mold.	Fair	No	N/A	Located within future construction limits. Removal required.
12	Hollywood juniper	10"	1	15'±	20'±	2.0	2.5	Horizontal crown from extending to the northwest. Significant branch dieback occurring.	Poor to Fair	No	N/A	Located within future construction limits. Removal required.

Tree #	Species	Trunk Diameter @ 54" (inches)	# of Trunks	Crown Height	Crown Diameter	Health Rating	Structural Rating	Comments/Observations	Suitability for Preservation (Based Upon Condition)	Protected Tree Status	Tree Protection Zone (Radius in Feet)	Construction Impact Assessment
13	Hollywood juniper	15"	1	18'±	20'±	2.0	3.0	Normal crown form for the species. Significant branch and twig dieback occurring.	Poor to Fair	Protected	N/A	Located within future construction limits. Removal required.
14	Hollywood juniper	12.5"	1	20'±	15'±	2.5	3.0	Normal crown form for the species. Moderately low vigor and foliage density. Branch and twig dieback occurring.	Fair	No	N/A	Located within future construction limits. Removal required.

REFER TO FULL ARBORIST REPORT DATED 10/20/2022 FOR MORE INFORMATION. 12/3/22

BROWN REYNOLDS WATFORD ARCHITECTS
1620 MONTGOMERY
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SAN FRANCISCO, CA 94111
415.749.2670
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PALO ALTO FIRE DEPARTMENT
STATION NO.4 REPLACEMENT

3600 MIDDLEFEILD ROAD
PALO ALTO, CA 94303

K-1

ARBORIST REPORT

JUNE 30, 2023

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/.

TREE DISCLOSURE STATEMENT

CITY OF PALO ALTO
Planning Division, 250 Hamilton Avenue
Palo Alto, CA 94301
(650) 329-2441
http://www.cityofpaloalto.org

Palo Alto Municipal Code, Chapter 8.10.040, requires disclosure and protection of certain trees located on private and public property, and that they be shown on approved site plans. A completed disclosure statement must accompany all building permit applications that include exterior work, all demolition or grading permit applications, or other development activity.

PROPERTY ADDRESS: _____

Are there Regulated † trees on or adjacent to the property? ☐ **YES** ☐ **NO** (If no, proceed to Section 4)

[Sections 1- 4 MUST be completed by the applicant. Please circle and/or check where applicable.]

1. Where are the trees? Check those that apply. **(Plans must be submitted showing over 4" diameter trees)**
   - ☐ On the property
   - ☐ On adjacent property overhanging the project site
   - ☐ In the City planter strip or right-of-way easement within 30' of property line (Street Trees)*

*Street trees† **require special protection by a fenced enclosure**, per the attached instructions. Prior to receiving any permit, you must provide an authorized Street Tree Protection Verification form by calling Public Works Operations at 493-5953 for inspection of required type I, II or III fencing (see attached Detail #605).

2. Are there any Protected † or Designated † Trees? ☐ **YES** (Check where applicable) ☐ **NO**
   - ☐ Protected Tree (s)
   - ☐ Designated Tree (s)
   - ☐ On or overhanging the property

3. Is there activity or grading within the dripline? (radius 10 times the trunk diameter) of these trees? ☐ **YES** ☐ **NO**
*If Yes, a **Tree Preservation Report** must be prepared by an ISA certified arborist and submitted for staff review (see TTM , Section 6.25). Attach this report to Sheet T-1, "Tree Protection, its Part of the Plan!", per Site Plan Requirements.*

4. Are the Site Plan Requirements** completed? ☐ **YES** ☐ **NO**

**Protection of Regulated trees during development require the following: (1) Plans must show the measured trunk diameter and canopy dripline; (2) Plans must denote, as a bold dashed line, a fenced enclosure area out to the dripline, per Sheet T-1 and Detail #605 - http://www.cityofpaloalto.org/trees/forms.htm (See also TTM , Section 2.15 for area to be fenced)

I, the undersigned, agree to the conditions of this disclosure. I understand that knowingly or negligently providing false or misleading information in response to this disclosure requirement constitutes a violation of the Palo Alto Municipal Code Section 8.10.040, which can lead to criminal and/or civil legal action.

Signature: _____ Print: _____ Date: _____
(Prop. Owner or Agent)

FOR STAFF USE:

Protective Fencing
Sections 5-6 must be **completed by staff** for the issuance of any development permit (demolition, grading or building permit).

5. Protected Trees. The specified tree fencing is in place. A written statement is attached verifying that protective fencing is correctly in place around protected and/or designated trees. (N/A if there are no protected trees, check here ☐) ☐ YES ☐ NO

6. Street Trees. A signed Public Works Street Tree Protection Verification form is attached. (N/A if there are no street trees, check here ☐) ☐ YES ☐ NO

† Regulated Trees – a) Street trees – trees on public property; b) Protected trees – Coast Live Oaks or Valley Oaks which are 11.5" in diameter or larger, Coast Redwoods which are 18" in diameter or larger, when measured 54" above natural grade; and Heritage trees are trees designated by City Council; and c) Designated Trees – commercial or non-residential property trees, which are part of an approved landscape plan.

Palo Alto Tree Technical Manual (TTM) contains instructions for all requirements on this form, available at http://www.cityofpaloalto.org/planning-community/tree_technical-manual.html

S:\Plan\Pladv\Arborist\Tree Protection Info\Tree Disclosure Statement Revised 08/06

City of Palo Alto
250 Hamilton Avenue, Palo Alto, CA 94301
Search: Advanced Browse By Topic
Home > Planning & Community Environment

Tree Technical Manual

To purchase the Tree Technical Manual

June, 2001 First Edition

View by section:

- Table of Contents (PDF, 87KB)
- Intent and Purpose (PDF, 1.05MB)
- Introduction - Use of Manual (PDF, 1.05MB)
- Section 1.0 - Definitions (PDF, 96KB)
- Section 2.0 - Protection of Trees During Construction (PDF, 259KB)
- Section 3.0 - Removal, Replacement & Planting of Trees (PDF, 117KB)
- Section 4.0 - Hazardous Trees (PDF, 105KB)
- Section 5.0 - Tree Maintenance Guidelines (PDF, 110KB)
- Section 6.0 - Tree Reports (PDF, 84KB)

View ALL sections:

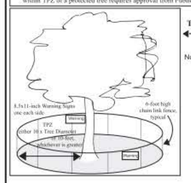
- Tree Technical Manual - Full (PDF, 1.84MB)

Home
City-owned Trees
Privately-owned Trees
About the Tree Ordinance
Title 8.10
Heritage Trees
Forms
Tree Technical Manual
FAQs
Contact Us
Resources

APPENDICES
A: Palo Alto Municipal Code Chapter 8.10, Tree Preservation & Management Regulations
B: Tree City - USA
C: ISA Hazard Evaluation Form
D: List of Inherent Failure Patterns for Selected Species (Reference source)
E: ISA Tree Pruning Guidelines (PDF, 1.85MB)
F: Tree Care Safety Standards, ANSI Z133.1-1994 (Reference source)
G: Pruning Performance Standards, ANSI A300-1995 (Reference source) H: Tree Planting Details, Diagram 504 & 505
I: Tree Disclosure Statement
J: Palo Alto Standard Tree Protection Instructions

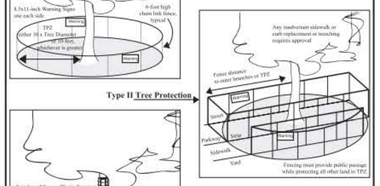
For written specifications associated with illustrations below, see Public Works Specifications Section 31
Detailed specifications are found in the Palo Alto Tree Technical Manual (TTM) (www.cityofpaloalto.org/trees/)

Tree Protection Zone (TPZ) shown in gray (radius of TPZ equals 10-times the diameter of the tree or 10-feet, whichever is greater).
- Restricted activity area – see Tree Technical Manual Sec 2.15(E).
- Restricted trenching area – see Tree Technical Manual Sec 2.20(C-D), any proposed trench or form work within TPZ of a protected tree requires approval from Public Works Operations. Call 650-496-5953.



Type I Tree Protection — For all Ordinance Protected and Designated trees, as detailed in the site specific tree preservation report (TPR) prepared by the applicant's project arborist as diagramed on the plans.

Note: Ordinance Protected & Designated Trees. Issuance of a permit requires applicant's project arborist written verification Type I is installed correctly according to the plans and Tree Preservation Report



Note: Street Trees. Issuance of a permit requires Public Works Operations inspection and signed approval on the Street Tree Verification (STV) form provided.

Type III Tree Protection (to be used only with approval of Public Works Operations)

Tree fencing is required and shall be erected before demolition, grading or construction begins.

Rev	By	Date
0	DWH	12/14/92
01	D.D.	08/04/04
02	D.D.	08/10/06

Tree Protection During Construction
City of Palo Alto Standard

Approved by: Dave Dockter
PE No.
Date: 2006
Dwg No.: 605
Scale: NTS

APPENDIX J

PALO ALTO
STREET TREE PROTECTION INSTRUCTIONS
--SECTION 31--

31-1 General
- **a. Tree protection has three primary functions.** 1) to keep the foliage canopy and branching structure clear from contact by equipment, materials and activities; 2) to preserve roots and soil conditions in an intact and non-compacted state and 3) to identify the Tree Protection Zone (TPZ) in which no soil disturbance is permitted and activities are restricted, unless otherwise approved.
- **b. The Tree Protection Zone (TPZ)** is a restricted area around the base of the tree with a radius of ten-times the diameter of the tree's trunk or ten feet; whichever is greater, enclosed by fencing.

31-2 Reference Documents
- **a. Detail 605** - Illustration of situations described below.
- **b. 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 6.10)
  4. Tree Disclosure Statement (TTM, Appendix J)
- **c. Street Tree Verification (STV) Form** (http://www.cityofpaloalto.org/trees/forms)

31-3 Execution
- **a. Type I Tree Protection:** The fence shall enclose the entire TPZ of the tree(s) to be protected throughout the life of the construction project. In some parking areas, if fencing is located on paving or concrete that will not be demolished, then the posts may be supported by an appropriate grade level concrete base, if approved by Public Works Operations.
- **b. Type II Tree Protection:** For trees situated within a planting strip, only the planting strip and yard side of the TPZ shall be enclosed with the required chain link protective fencing in order to keep the sidewalk and street open for public use.
- **c. Type III Tree Protection:** To be used only with approval of Public Works Operations. Trees situated in a tree well or sidewalk planter pit, shall be wrapped with 2-inches of orange plastic fencing from the ground to the first branch and overlaid with 2-inch thick wooden slats bound securely (slats shall not be allowed to dig into the bark). During installation of the plastic fencing, caution shall be used to avoid damaging any branches. Major limbs may also require plastic fencing as directed by the City Arborist.
- **d. Size, type and area to be fenced.** All trees to be preserved shall be protected with six (6') foot high chain link fences. Fences are to be mounted on two-inch diameter galvanized iron posts, driven into the ground to a depth of at least 2-feet at no more than 10-foot spacing. Fencing shall extend to the outer branching, unless specifically approved on the STV Form.
- **e. 'Warning' signs**. A warning sign shall be weather proof and prominently displayed on each fence at 20-foot intervals. The sign shall be minimum 8.5-inches x 11-inches and clearly state in half inch tall letters: "WARNING - Tree Protection Zone - This fence shall not be removed and is subject to a fine according to PAMC Section 8.10.110."
- **f. Duration**. Tree fencing shall be erected before demolition; grading or construction begins and remain in place until final inspection of the project, except for work specifically allowed in the TPZ. Work or soil disturbance in the TPZ requires approval by the project arborist or City Arborist (in the case of work around Street Trees). Excavations within the public right of way require a Street Work Permit from Public Works.
- **g. During construction**
  1. All neighbors' trees that overhang the project site shall be protected from impact of any kind.
  2. The applicant shall be responsible for the repair or replacement plus penalty of any publicly owned trees that are damaged during the course of construction, pursuant to Section 8.04.070 of the Palo Alto Municipal Code.
  3. The following tree preservation measures apply to all trees to be retained:
     - a. No storage of material, topsoil, vehicles or equipment shall be permitted within the TPZ.
     - b. The ground under and around the tree canopy area shall not be altered.
     - c. Trees to be retained shall be irrigated, aerated and maintained as necessary to ensure survival.

END OF SECTION

City of Palo Alto 2004 Standard Drawings and Specifications
Street Tree Verification of Protection, PWE, Section 31 Revised 08/06

Table 2-2 Palo Alto Tree Technical Manual

CONTRACTOR & ARBORIST INSPECTION SCHEDULE

Reference: the Palo Alto Tree Technical Manual is available at www.cityofpaloalto.org/gov/resources/

ALL CHECKED ITEMS APPLY TO THIS PROJECT:

1. ☑ **Inspection of Protective Tree Fencing**. For Public Trees, the Street Tree Verification Form shall be signed by the City Arborist. For Protected Trees, the project site arborist shall provide an initial Monthly Tree Activity Report form with a photograph verifying that he has conducted a field inspection of the trees and that the correct type of protective fencing is in place around the designated tree protection zone (TPZ) prior to issuance of a demolition, grading, or building permit (See TTM, Verification of Tree Protection, Section 1.39).
2. ☑ **Pre-Construction Meeting**. Prior to commencement of construction, the applicant or contractor shall conduct a pre-construction meeting to discuss tree protection with the job site superintendent, grading operators, project site arborist, City Arborist, and, if a city maintained irrigation system is involved, the Parks Manager (Contact 650-496-6962).
3. ☑ **Inspection of Rough Grading or Trenching**. Contractor shall ensure the project site arborist performs an inspection during the course of rough grading or trenching adjacent to or within the TPZ to ensure trees will not be injured by compaction, cut or fill, drainage and trenching, and if required, inspect sterition systems, tree wells, drains and special paving. The contractor shall provide the project arborist at least 24 hours advance notice of such activity.
4. ☑ **Monthly Tree Activity Report Inspections**. The project site arborist shall perform a minimum monthly activity inspection to monitor and advise on conditions, tree health and retention or, immediately if these are *any revisions* to the approved plans or protection measures. The Tree Technical Manual Monthly Tree Activity Report format shall be used and sent to the Planning Dept. landscape review staff no later than 14 days after issuance of building permit date. Fax to (650) 329-2154. (See TTM, Monthly Tree Activity Inspection Report, Addendum 11 & section 1.17).
5. ☑ **Special activity within the Tree Protection Zone**. Work in the TPZ area (see also #7 below) requires the direct onsite supervision of the project arborist (see TTM, Trenching, Excavation & Equipment, Section 2.20 C).
6. ☐ **Landscape Architect Inspection**. For discretionary development projects, prior to temporary or final occupancy the applicant or contractor shall arrange for the Landscape Architect to perform an on site inspection of all plant stock, quality of the materials and planting (see TTM, Planting Quality, Section 5.20.1 A) and that the irrigation is functioning consistent with the approved construction plans. The Planning Dept. landscape review staff shall be in receipt of written verification of Landscape Architect approval prior to scheduling the final inspection, unless otherwise approved.
7. ☐ **List Other** (please describe as called out in the site Tree Preservation Report, Sheet T-1, T-2, etc.)
   - *: _____
   - *: _____

City of Palo Alto
Tree Department
Public Works Operations
PO Box 10250 Palo Alto, CA 94303
650/496-5953 FAX: 650/852-9289
treeprotection@CityofPaloAlto.org

Verification of Street Tree Protection

Applicant Instructions: Complete upper portion of this form. Mail or FAX this form along with signed Tree Disclosure Statement to Public Works Dept. Public Works Tree Staff will inspect and notify applicant.

APPLICATION DATE:	
ADDRESS/LOCATION OF STREET TREES TO BE PROTECTED:	
APPLICANT'S NAME:	
APPLICANT'S ADDRESS:	
APPLICANT'S TELEPHONE & FAX NUMBERS:	

This section to be filled out by City Tree Staff

1. The Street Trees at the above address(es) are adequately protected. The type of protection used is:	YES ☐ NO* ☐ * If NO, go to #2 below
Inspected by:	
Date of Inspection:	
2. The Street Trees at the above address are **NOT** adequately protected. The following modifications are required: Indicate how the required modifications were communicated to the applicant.	

Subsequent Inspection

Street trees at above address were found to be adequately protected:	YES ☐ NO* ☐ * If NO, indicate in "Notes" below the disposition of case.
Inspected by:	
Date of Inspection:	
Notes: List City street trees by species, site, condition and type of tree protection installed. Also note if pictures were taken. Use back of sheet if necessary.	

Return approved sheet to Applicant for demolition or building permit issuance.

S:\PWO\OPS\Tree\DESS\ TreeProtect 5/7/08

City of Palo Alto Tree Technical Manual ADDENDUM 11

Arborist Firm Data Here ISA#: ISA Certified Arborist #WE-000 Contact Cell #

Monthly Tree Activity Report- *Construction Site*

Inspection Date: _____ **Inspection #** _____	**Site address:** Palo Alto, CA	**Contractor-Main Site Contact Information**	#1. Job site superintendent Company: Email: Job site Office: Cell: Mail:
		Also present:	• _____ • _____
Distribution:	1. City of Palo Alto 2. Others	**Attn: Dave Dockter**	Dave.dockter@cityofpaloalto.org 650-329-2440

Provide the requested arborist information with each report, customize as necessary. To be completed by project site arborist. Send monthly to city arborist at above address until project completion. Use additional sheets as needed.

1. Assignment Activity (Demolition/grading/sewer/trenching/foundation/list relevant visits)
   a. Pre-construction meeting requirement with sub-contractors
   b. Inspect to verify that tree protection measures are in place
   c. Determine if field adjustments, watering or plan revisions may be needed
2. Field Observations (general site-wide and list by individual tree number)
   a. Tree Protection Fences (TPF) are …
   b. Trenching has/will occur …
3. Action Items (list site-wide, by tree number and date to be satisfied) and Date Due
   a. Tree Protection Fence (TPF) needs adjusting (tree # x, x, x)
   b. Root zone baffle material (wood chips) can be installed next
   c. Schedule sewer trench, foundation dig with …
4. Photographs (use often)
5. Tree Location Map (mandatory 8.5 x 11 sheet)
6. Recommendations, notes or monitor items for project/staff/schedule
   •
7. Past visits (list carry-over items satisfied/still outstanding)
   •

Respectfully submitted,

Project site arborist
Consultant contact information (Include email, cell#, and mailing)
Cc:

Enter Date: CPA Monthly Tree Activity Report: Type site address here Page #1 of 1

---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 MANDATORY

PAMC 8.10 PROTECTED TREES. CONTRACTOR SHALL ENSURE PROJECT SITE ARBORIST IS PERFORMING REQUIRED TREE INSPECTION AND SITE MONITORING. PROVIDE WRITTEN MONTHLY TREE ACTIVITY REPORTS TO THE PLANNING DEPARTMENT LANDSCAPE REVIEW STAFF BEGINNING 14 DAYS AFTER BUILDING PERMIT ISSUANCE.

BUILDING PERMIT DATE: _____

DATE OF 1ST TREE ACTIVITY REPORT: _____

CITY STAFF: _____

REPORTING DETAILS OF THE MONTHLY TREE ACTIVITY REPORT SHALL CONFORM TO SHEET T-1 FORMAT. VERIFY THAT ALL TREE PROTECTION MEASURES ARE IMPLIMENTED AND WILL INCLUDE ALL CONTRACTOR ACTIVITY, SCHEDULED OR UNSCHEDULED, WITHIN A TREE PROTECTION ROOT ZONE. NON-COMPLIANCE IS SUBJECT TO VIOLATION OF PAMC 8.10.080. REFERENCE: PALO ALTO TREE TECHNICAL MANUAL SECTION 2.00 AND ADDENDUM 11.

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

Use addtional "T" sheets as needed

Project Data

T-1

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-1

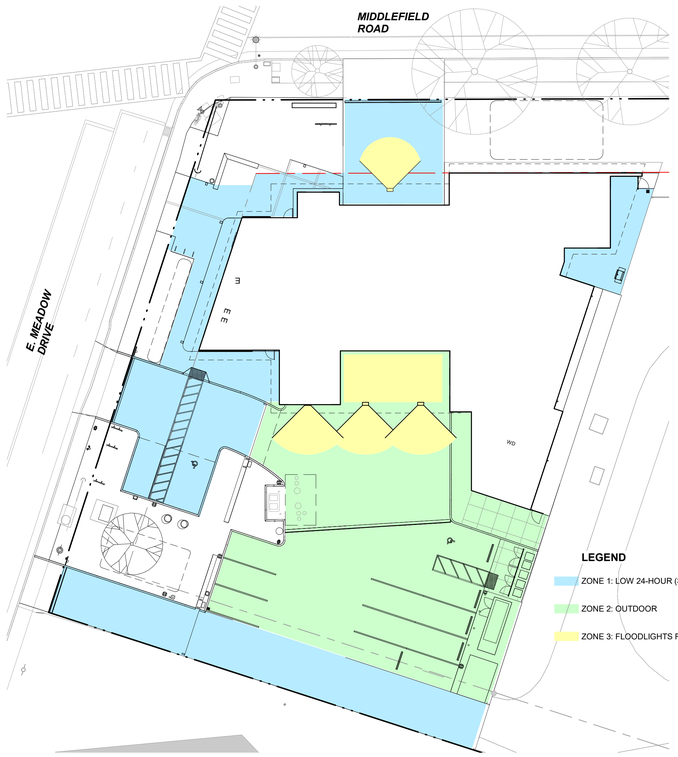
BROWN REYNOLDS WATFORD ARCHITECTS
1620 MONTGOMERY
SUITE 320
SAN FRANCISCO, CA 94111
415.749.2670
WWW.BRWARCH.COM

PALO ALTO FIRE DEPARTMENT
STATION NO.4 REPLACEMENT
3600 MIDDLEFEILD ROAD
PALO ALTO, CA 94303

K-2

SPECIAL TREE PROTECTION INSTRUCTION SHEET

JUNE 30, 2023



2 OUTDOOR LIGHTING APPROACH DIAGRAM

1" = 20'-0"

PLAN NORT TRUE NORT

1 SITE LIGHTING PLAN

1" = 10'-0"

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SUITE 320
SAN FRANCISCO, CA 94111
415.749.2670
WWW.BRWARCH.COM

PALO ALTO FIRE DEPARTMENT STATION NO.4 REPLACEMENT

3600 MIDDLEFEILD ROAD
PALO ALTO, CA 94303

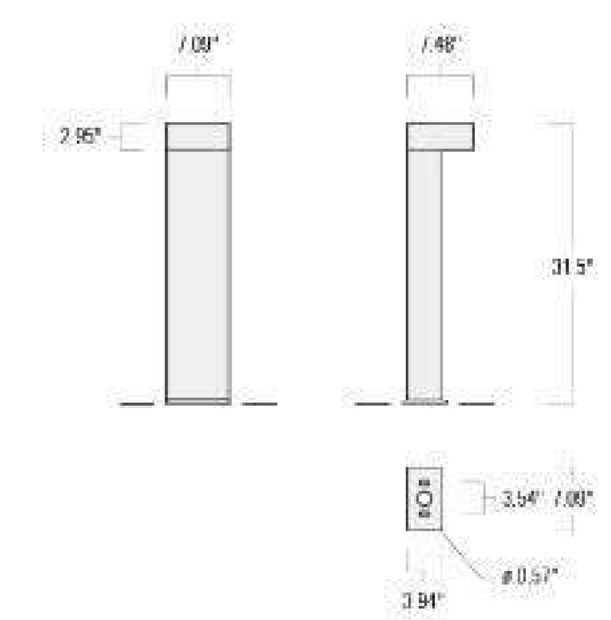
L-1

LIGHTING PLAN

JUNE 30, 2023

LB - LIGHT BOLLARD

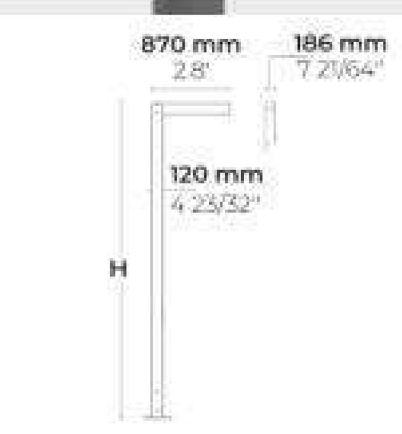
PSY414 LED
Bollards and Pathway Luminaires
1/5

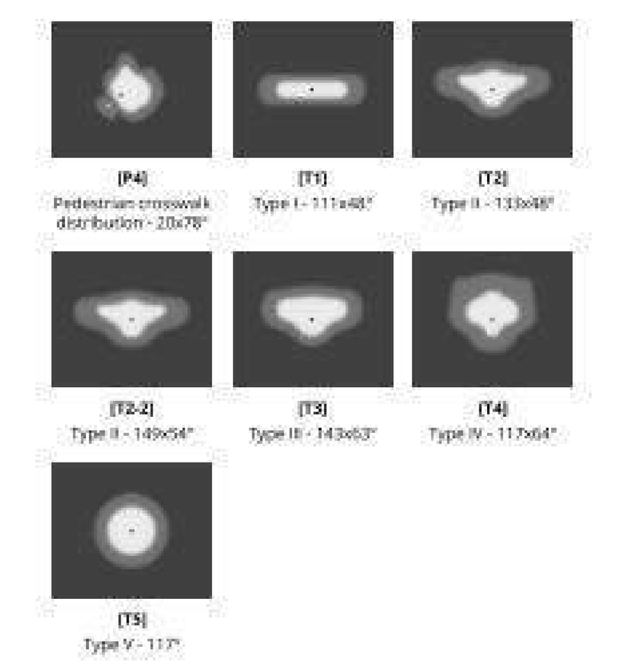


Description
IP66. Class I. IK10. Marine-grade, all aluminum construction. Pole section features galvanized steel reinforcement core. 5CE superior corrosion protection including PCS hardware. Silicone CCG® Controlled Compression Gasket. Polycarbonate main lens. CAD-optimized optics for superior illumination and glare control. Integral driver. OLC® One LED Concept. Factory-installed LED circuit board. 0-10V Dimming comes standard with luminaire. Pre-wired post complete with 10kV surge protector in cable connection box. Specify product with 7 Digit product code – Finish Color. Accessories, such as mounting, optical, and electrical, must be specified separately. Example: XXX-XXXX-9004 (Black) + XXX-XXXX (Accessory 1)

PL - POST LIGHT

DOMINO AFX 1 Module
LP4034.861-US





Configurations

Light distribution	[P4] 20x78°, [T1] 111x48°, [T2] 133x48°, [T2-2] 149x54°, [T3] 143x63°, [T4] 117x64°, [T5] 117°
Delivered lumens flux	1975 - 4540 lm
Rated input power	18 - 35 W
Color temperature	2700 K CRI 80, 3000 K CRI 80, 4000 K CRI 70, 4000 K CRI 80
BUG rating	B1-U0-G1, B1-U0-G0, B2-U0-G1, B0-U0-G0, B2-U0-G0
Lifetime L90 (hour)	>102, 000
Lifetime L80 (hour)	>102, 000

Options

Control	On/Off, 0-10V
Input voltage	120-277V 50/60Hz
Product colors	
Height	15'-0" CUSTOM HEIGHT (Please specify)

Extras

Connectivity	7 Pin NEMA socket
Light output	Constant light output
Consult the factory	Motion sensor
Luminaire body options	Double powder coating

Technical information

Mounting	Surface mountable
Housing	Corrosion resistant, marine grade aluminum housing
Finishing	Chromate conversion pretreatment followed by electrostatic powder coating
Fasteners	Stainless steel (AISI 304 / EN 1.4301 grade)
Gasket	Liquid silicone
Lens / Reflector	PMMA lens with high optical efficiency
Glass / Diffusor	Tempered safety glass
Impact protection	IK08
Ingress protection	IP66
Insulation class	Class I
Weight	81.86 lbs (10'), 93.08 lbs (13')
LED module	High power LEDs on metal-core PCB
Driver	Internal LED driver
Driver surge protection	10/6 kV
Power factor	> 0.95
Through wiring	Single power cord entry
Operating temperature	-40...50°C
Power cord	20' of outdoor use rated flexible power cord
Pole detail	Poles are supplied with flange plate. Flange cover and anchorage can be ordered separately. Embedded base is optional

FLOODLIGHTS

Project		Catalog #		Type	
Prepared by		Notes		Date	

McGraw-Edison
GFLD Galleon II Floodlight

Floodlight Luminaire

Product Features

Light ARchitect™

Interactive Menu
- Ordering Information page 2
- Product Specifications page 2
- Mounting Details page 3
- Optical Distributions page 6
- Energy and Performance Data page 7
- Control Options page 14

Product Certifications

3G VIB
IP66
5 YEAR

Quick Facts
- Lumen packages range from 1,261 - 36,393 (18W - 368W)
- 8 NEMA Type flood distributions
- Efficacy up to 126 lumens per watt

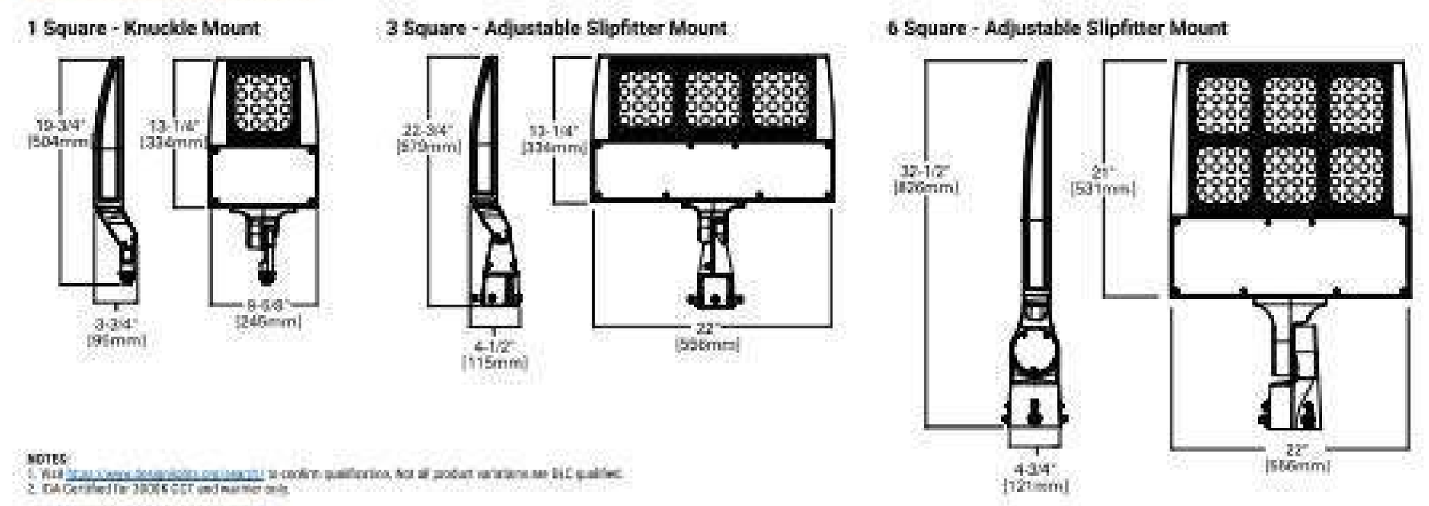
Connected Systems
- WaveLinx Lite
- WaveLinx

Dimensional Details

1 Square - Knuckle Mount

3 Square - Adjustable Slipfitter Mount

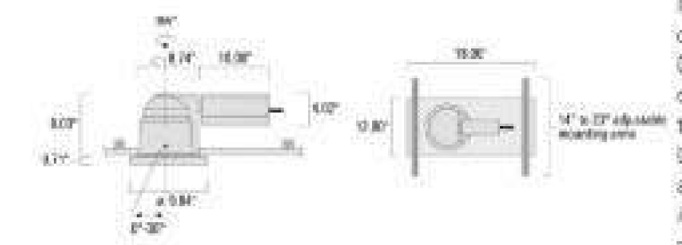
6 Square - Adjustable Slipfitter Mount



COOPER Lighting Solutions

C - SOFFIT LIGHTS

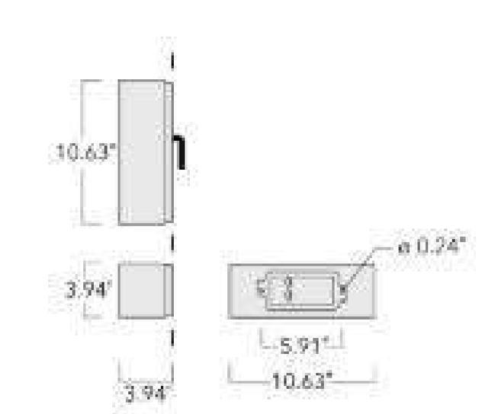
DOC240-GB LED
Ceiling Luminaires
1/7



Description
IP66. Class I. IK07. Marine-grade, die-cast aluminum alloy. 5CE superior corrosion protection including PCS hardware. Silicone CCG® Controlled Compression Gasket. Safety glass lens, hinged. Two cable entries. CAD-optimized optics for superior illumination and glare control. Integral driver in thermally separated compartment. OLC® One LED Concept. Factory-installed LED circuit board. Frame with safety catch. Gimbal mounted, 0-30° tiltable and 355° rotatable. Suitable for installation in non-insulated ceiling. A pre-installation blockout, proud or flush, is available and recommended for mounting in concrete ceilings; to be ordered separately. Specify product with 7 Digit product code – Finish Color. Accessories, such as mounting, optical, and electrical, must be specified separately. Example: XXX-XXXX-9004 (Black) + XXX-XXXX (Accessory 1)

WP - WALL SCONCE

RLS420 LED
Surface Mounted Wall Luminaires
1/5



Description
Surface-mounted wall or ceiling luminaire. ADA (American Disabilities Act) Compliant. IP66. Class I. IK08. Marine-grade, die-cast aluminum alloy. 5CE superior corrosion protection including PCS hardware. Silicone CCG® Controlled Compression Gasket. Safety glass lens. CAD-optimized optics for superior illumination and glare control. Integral driver. OLC® One LED Concept. Advanced thermal management protects LEDs while optimizing lumens output. 0-10V Dimming comes standard with luminaire. Luminaire is factory-sealed and does not need to be opened during installation. Luminaire can be mounted for up or down lighting. Suitable for installation on ceiling or wall over 4" recessed junction box. Specify product with 7 Digit product code – Finish Color. Accessories, such as mounting, optical, and electrical, must be specified separately. Example: XXX-XXXX-9004 (Black) + XXX-XXXX (Accessory 1)

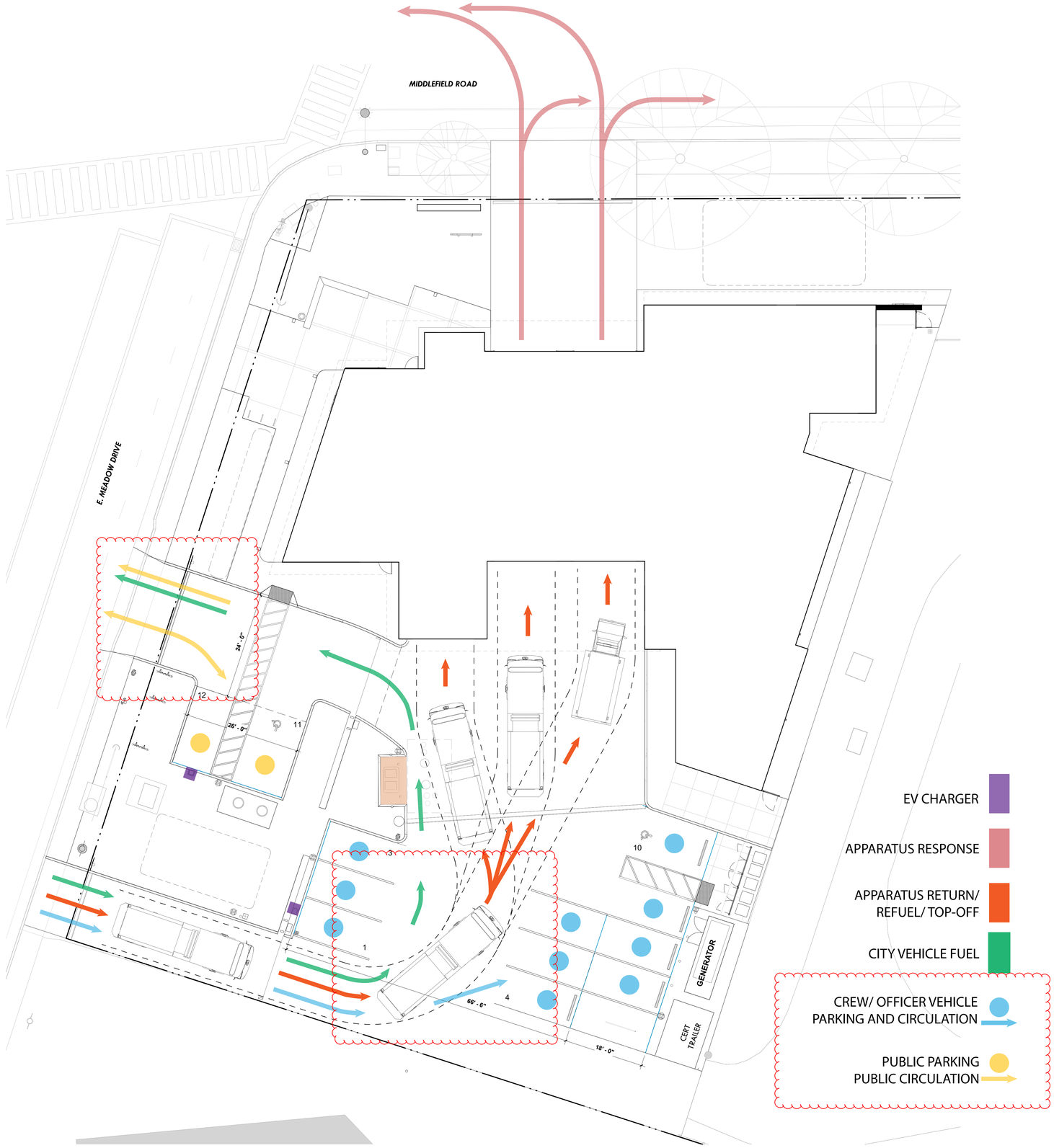
BROWN REYNOLDS WATFORD ARCHITECTS
1620 MONTGOMERY
SUITE 320
SAN FRANCISCO, CA 94111
415-749-2670
WWW.BRWARCH.COM

PALO ALTO FIRE DEPARTMENT STATION NO.4 REPLACEMENT
3600 MIDDLEFEILD ROAD
PALO ALTO, CA 94303

L-2

LIGHTING CUT SHEETS

JUNE 30, 2023



PLAN NORTH TRUE NORTH

1 PARKING LAYOUT AND CIRCULATION PLAN

1" = 10'-0"

BROWN REYNOLDS WATFORD ARCHITECTS
1620 MONTGOMERY
SUITE 320
SAN FRANCISCO, CA 94111
415.749.2670
WWW.BRWARCH.COM

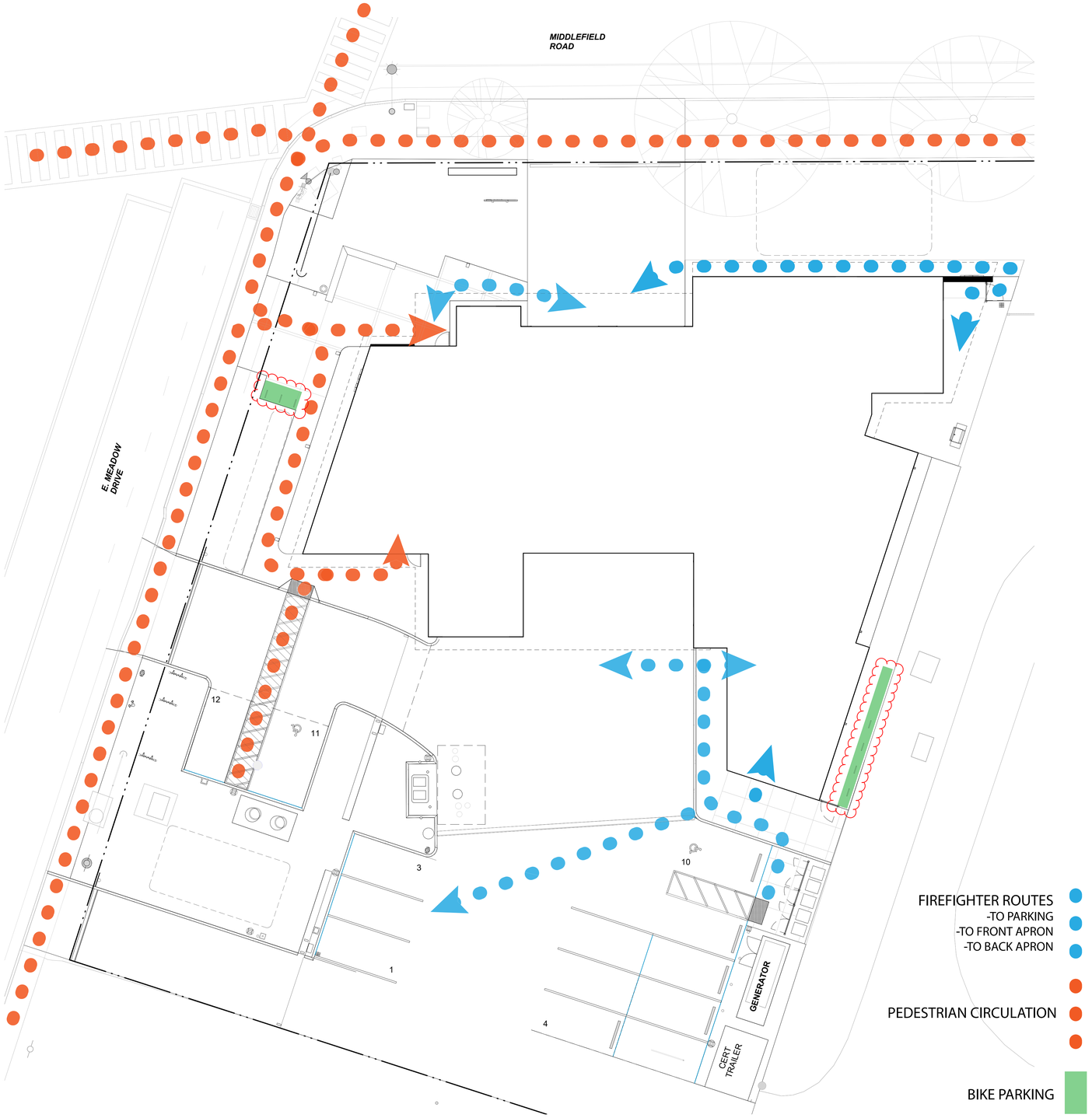
PALO ALTO FIRE DEPARTMENT
STATION NO.4 REPLACEMENT

3600 MIDDLEFEILD ROAD
PALO ALTO, CA 94303

M-1

PARKING LOT LAYOUT & CIRCULATION

JUNE 30, 2023



PLAN NORT

TRUE NORT

1 SITE PEDESTRIAN / BICYCLE CIRCULATION PLAN

1" = 10'-0"

BROWN REYNOLDS WATFORD
ARCHITECTS
1620 MONTGOMERY
SUITE 320
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415.749.2670
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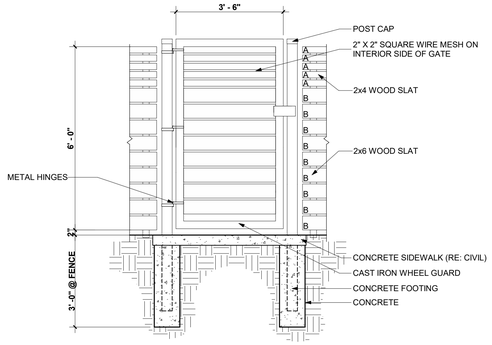
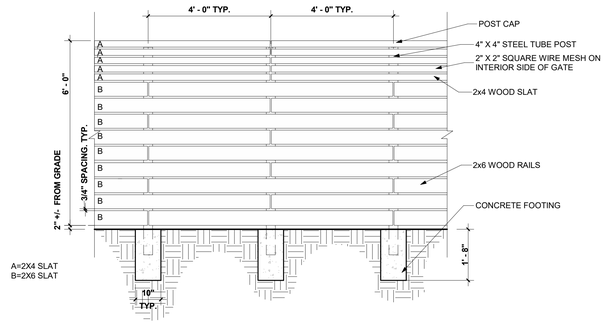
N-1

PEDESTRIAN / BICYCLE CIRCULATION

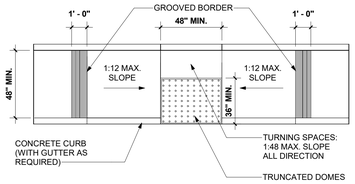
JUNE 30, 2023



4 WOOD PEDESTRIAN GATE DETAIL
1/2" = 1'-0"

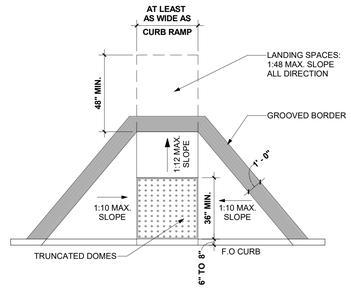


3 WOOD FENCE ELEVATION
1/2" = 1'-0"



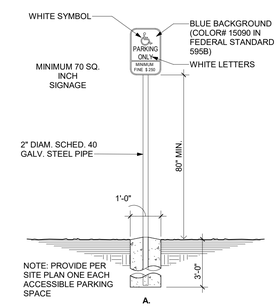
1. **PARALLEL CURB RAMPS:** THE RUNNING SLOPE OF THE CURB RAMP SEGMENTS SHALL BE IN-LINE WITH THE DIRECTION OF SIDEWALK TRAVEL. RAMP RUNS SHALL HAVE A RUNNING SLOPE NOT STEEPER THAN 1:12. **(PER CBC 11B-406.3.1)** AND A TURNING SPACE 48 INCHES MIN. BY 48 INCHES MIN. SHALL BE PROVIDED AT THE BOTTOM OF THE CURB RAMP. THE SLOPE OF THE TURNING SPACE IN ALL DIRECTIONS SHALL BE 1:48 MAX. **(PER CBC 11B-406.3.2)**
2. **PER CBC 1112A.8 BORDER:** CALL CURB RAMPS SHALL HAVE A GROOVED BORDER 12 INCHES WIDE AT THE LEVEL SURFACE OF THE SIDEWALK ALONG THE TOP AND EACH SIDE APPROXIMATELY 3/4" INCH ON CENTER.
3. **PER CBC 11B-705.1.2.2 CURB RAMPS:** DETECTABLE WARNINGS AT CURB RAMPS SHALL EXTEND 36 INCHES IN THE DIRECTION OF TRAVEL. DETECTABLE WARNINGS SHALL EXTEND THE FULL WIDTH OF THE RAMP RUN EXCLUDING ANY FLARED SIDES.

2 CURB RAMP - PARALLEL DETAIL
1/4" = 1'-0"

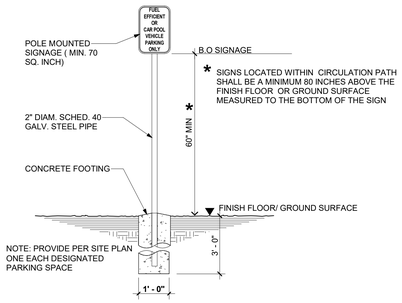


1. **PERPENDICULAR CURB RAMPS:** RAMP RUNS SHALL HAVE RUNNING SLOPE NOT STEEPER THAN 1:12. **(PER CBC 11B-406.2.1)** AND WHERE PROVIDED, CURB RAMP FLARES SHALL NOT BE STEEPER THAN 1:10. **(PER CBC 11B-406.2.2**)
2. **PER CBC 11B-406.5.2 WIDTH:** THE CLEAR WIDTH OF CURB RAMP RUNS (EXCLUDING ANY FLARED SIDES), BLENDED TRANSITIONS, AND TURNING SPACES SHALL BE 48 INCHES MINIMUM.
3. **PER CBC 11B-406.5.3 LANDINGS:** THE LANDING CLEAR LENGTH SHALL BE 48 INCHES MINIMUM. THE LANDING CLEAR WIDTH SHALL BE AT LEAST AS WIDE AS THE CURB RAMP, EXCLUDING ANY FLARED SIDES, OR THE BLENDED TRANSITION LEADING TO THE LANDING. THE SLOPE OF THE LANDING IN ALL DIRECTIONS SHALL BE 1:48 MAXIMUM.
4. **PER CBC 11B-405.5.11 GROOVED BORDER:** CURB RAMPS SHALL HAVE A GROOVED BORDER 12 INCHES WIDE ALONG THE TOP OF THE CURB RAMP AT THE LEVEL SURFACE OF THE TOP LANDING AND AT THE OUTSIDE EDGES OF THE FLARED SIDES.
5. **PER CBC 11B-705.1.2.2 CURB RAMPS:** DETECTABLE WARNINGS AT CURB RAMPS SHALL EXTEND 36 INCHES IN THE DIRECTION OF TRAVEL. DETECTABLE WARNINGS SHALL EXTEND THE FULL WITH OF THE RAMP RUN EXCLUDING ANY FLARED SIDES.

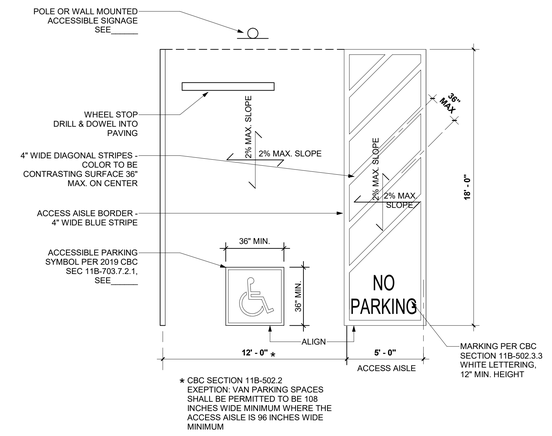
1 CURB RAMP - PERPENDICULAR DETAIL
1/4" = 1'-0"



7 DISABLED PARKING SIGNAGE
1/2" = 1'-0"

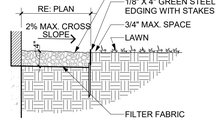


6 ACCESSIBLE EV PARKING SIGNAGE
1/2" = 1'-0"

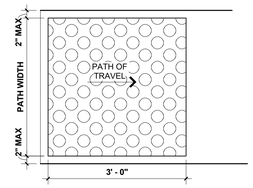


5 VAN ACCESSIBLE PARKING STALL
1/4" = 1'-0"

EXISTING MONUMENT SIGN TO BE REUSED.



10 MOW STRIP DETAIL
3/4" = 1'-0"



PER CBC SECTION 11B-705.1.2.2 CURB RAMPS: DETECTABLE WARNINGS AT CURB RAMPS SHALL EXTEND 36 INCHES (914 MM) IN THE DIRECTION OF TRAVEL. DETECTABLE WARNINGS SHALL EXTEND THE FULL WIDTH OF THE RAMP RUN LESS 2 INCHES (51 MM) MAXIMUM ON EACH SIDE, EXCLUDING ANY FLARED SIDES. DETECTABLE WARNINGS SHALL BE LOCATED SO THE EDGE NEAREST THE CURB IS 6 INCHES (152 MM) MINIMUM AND 8 INCHES (203 MM) MAXIMUM FROM THE LINE AT THE FACE OF THE CURB MARKING THE TRANSITION BETWEEN THE CURB AND THE GUTTER, STREET OR HIGHWAY.

EXCEPTION: ON PARALLEL CURB RAMPS, DETECTABLE WARNINGS SHALL BE PLACED ON THE TURNING SPACE AT THE FLUSH TRANSITION BETWEEN THE STREET AND SIDEWALK. DETECTABLE WARNINGS SHALL EXTEND THE FULL WIDTH OF THE TURNING SPACE AT THE FLUSH TRANSITION BETWEEN THE STREET AND THE SIDEWALK LESS 2 INCHES (51 MM) MAXIMUM ON EACH SIDE.

9 DETECTABLE SURFACE
3/4" = 1'-0"

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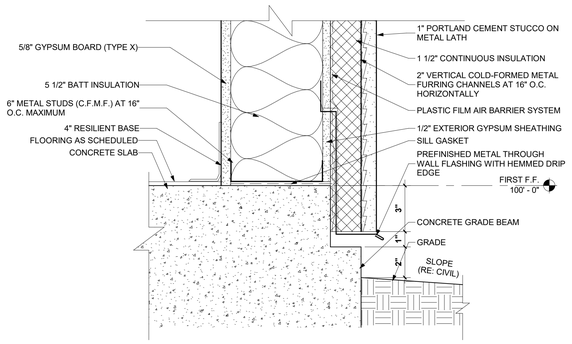
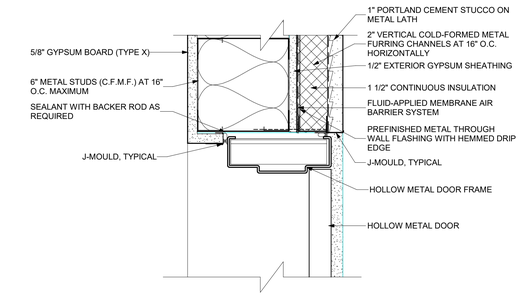
O-1

SCHEMATIC DETAILS - SITE

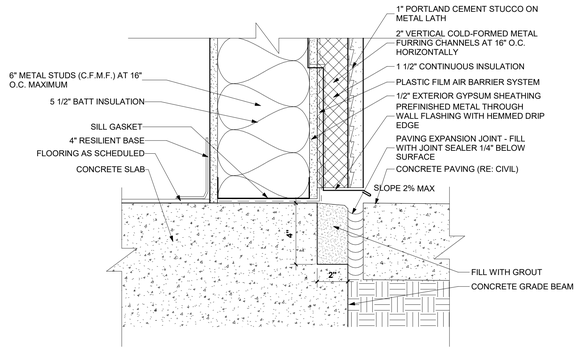
JUNE 30, 2023



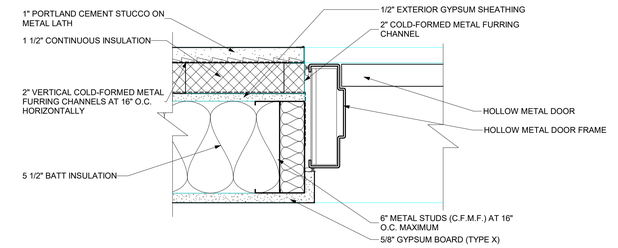
3 SECTION DETAIL
3" = 1'-0"



1 DOOR HEAD DETAIL
3" = 1'-0"

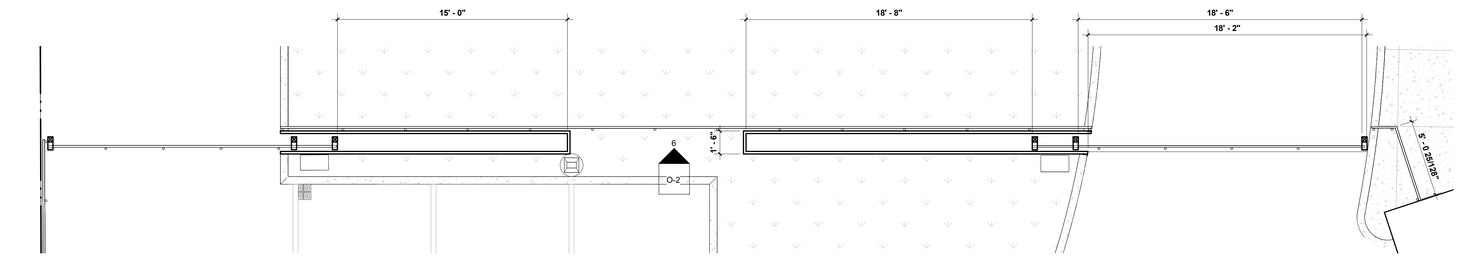


4 SECTION DETAIL
3" = 1'-0"

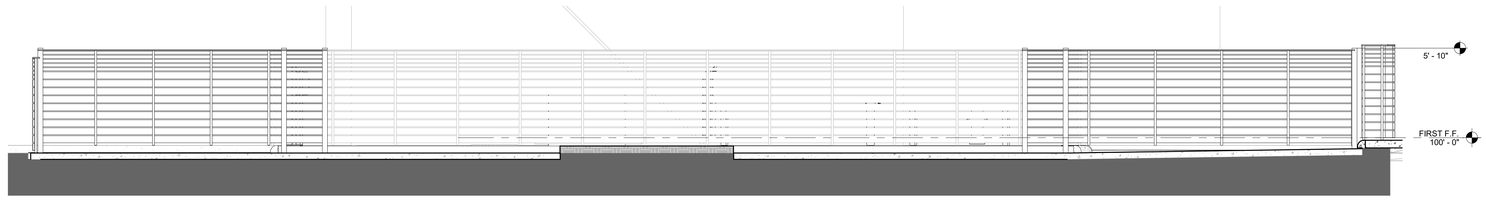


2 DOOR JAMB DETAIL
3" = 1'-0"

REFER TO SHEET H-1 FOR 1/2" = 1'-0" DETAILS OF ROOF, PARAPETS, FASCIA, AND RAINSCREEN.



5 SITE PLAN
1/4" = 1'-0"



6 EE-GATE DETAIL
1/4" = 1'-0"

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O-2

SCHEMATIC DETAILS - BUILDING

JULY 27, 2023

						Compliance Path Verification							
						Plan Check		Rough GB Inspection IVR # 152		Final Inspection IVR # 153			
5.1 Planning and Design		**Code Section**	**Y**	**N**	**Plan Sheet, Spec or Attachment Reference**	CORR	INITIAL	CORR	INITIAL	Part 1 CORR	Part 1 INITIAL	Part 2 CORR	Part 2 INITIAL
Mandatory	Mandatory	Stormwater pollution prevention for projects that disturb < 1 acre of land	PAMC 16.14.290/ 5.106.1	X									
Mandatory	Mandatory	Stormwater pollution prevention for projects that disturb 1 or more acres of land	PAMC 16.14.290/ 5.106.2		NOT APPLICABLE								
Mandatory	Mandatory	Local storm water pollution prevention	PAMC 16.14.290/ 5.106.1	X									
Mandatory	Mandatory	Best management practices (BMP's)	5.106.1.2	X									
Mandatory	Mandatory	Short term bicycle parking	5.106.4.1.1	X									
Mandatory	Mandatory	Long term bicycle parking	5.106.4.1.2	X									
Tier 2 Mand.	Tier 2 Mand.	Designated parking - 50% of Parking Capacity	A5.106.5.1.2										
Tier 2 Mand.	Tier 2 Mand.	Electric Vehicle (EV) Charging for Non-Residential Structures (EVSE) with 10-20 spaces shall provide 20% EV Capable or EVSE-Ready and 20% Level 2 EVSE Installed. (Buildings w/ more than 20 spaces shall provide 15% EV Capable or EVSE-Ready and 15% EVSE Installed)	PAMC 16.14.430/ A5.106.5.3					See EVSE Checklist					
Mandatory	Mandatory	Light pollution reduction	PAMC 16.14.295/5.106.8	X									
Mandatory	Mandatory	Grading and paving (exception for additions and alterations not altering the drainage path)	5.106.10	X				PW					
Tier 2 Mand.	Tier 2 Mand.	Cool roof for reduction of heat island effect	PAMC 16.18.070 & 16.14.080/ A5.106.11.2										
Tier 2 Mand.	Tier 2 Mand.	All-Electric Building/Site (New buildings and substantial remodels)	PAMC 16.14.300 Section 5.106.13										
Electives	Electives	Community connectivity	A5.103.1										
Electives	Electives	Brownfield or greyfield site redevelopment or infill area development	A5.103.2										
Electives	Electives	Reduce development footprint and optimize open space	A5.104.1										
Electives	Electives	Existing building structure (75%)	A5.105.1.1										
Electives	Electives	Existing non-structure elements (50%)	A5.105.1.2										
Electives	Electives	Salvage	A5.105.1.3										
Electives	Electives	Storm water design	A5.106.2										
Electives	Electives	Low impact development (LID)	A5.106.3										
Electives	Electives	Greyfield or infill site	A5.106.3.2										
Electives	Electives	Changing rooms	A5.106.4.3										
Electives	Electives	Parking capacity	A5.106.6										
Electives	Electives	Reduce parking capacity	A5.106.6.1										
Electives	Electives	Exterior wall shading: Fenestration- East and west walls	A5.106.7.1.1										
Electives	Electives	Exterior wall shading: Fenestration- South walls	A5.106.7.1.2										
Electives	Electives	Exterior wall shading: Opaque wall areas	A5.106.7.2										
Electives	Electives	Heat island effect: Hardscape alternatives and cool roof reduction	A5.106.11										
5.3 Water Efficiency and Conservation													
Mandatory	Mandatory	Meters, separate submeters or metering devices installed as follows:	5.303.1	X									
Mandatory	Mandatory	New buildings or additions in excess of 50,000 square feet	5.303.1.1		NOT APPLICABLE								
Mandatory	Mandatory	Excess consumption (Submeters for additions that consume over 1,000 gal/ day)	5.303.1.2		NOT APPLICABLE								
Tier 2 Mand.	Tier 2 Mand.	Water Reduction- 20% savings over the "water use baseline" Table A5.303.2.3.1	A5.303.2.3.2	X									
Mandatory	Mandatory	Indoor Water Use: Water closets (shall not exceed 1.28 gallons per flush)	5.303.3.1	X									
Mandatory	Mandatory	Indoor Water Use: Wall-mounted urinals (0.125gpf)	5.303.3.2.1		NOT APPLICABLE								
Mandatory	Mandatory	Indoor Water Use: Floor-mounted urinals (0.5 gpf)	5.303.3.2.2		NOT APPLICABLE								
Mandatory	Mandatory	Indoor Water Use: Single showerhead (1.8 gpm at 80 psi)	5.303.3.3.1	X									
Mandatory	Mandatory	Indoor Water Use: Multiple showerheads serving one shower (flow rate of 1.8 gpm at 80 psi)	5.303.3.3.2		NOT APPLICABLE								
Mandatory	Mandatory	Indoor Water Use: Nonresidential lavatory faucets (0.5 gpm at 60 psi)	5.303.3.4.1	X									
Mandatory	Mandatory	Indoor Water Use: Kitchen faucets (1.8 gpm at 60 psi)	5.303.3.4.2	X									
Mandatory	Mandatory	Indoor Water Use: Wash fountains (1.8 gpm at 60 psi)	5.303.3.4.3		NOT APPLICABLE								
Mandatory	Mandatory	Indoor Water Use: Metering faucets (0.2 gallons/ cycle)	5.303.3.4.4	X									
Mandatory	Mandatory	Indoor Water Use: Metering faucets for wash fountains (0.2 gallons/ cycle)	5.303.3.4.5		NOT APPLICABLE								
Mandatory	Mandatory	Commercial kitchen equipment	5.303.4		NOT APPLICABLE								
Mandatory	Mandatory	Food waste disposers	5.303.4.1	X									
Mandatory	Mandatory	Indoor water use: Areas of addition or alteration *[AA]*	5.303.5		NOT APPLICABLE								
Mandatory	Mandatory	Dual plumbing (locally amended)	PAMC 16.12.035/	X									
Mandatory	Mandatory	Indoor Water Use: Standards for plumbing fixtures and fittings (2022 California Plumbing Code)	5.303.6	X									
Mandatory	Mandatory	Outdoor potable water use in landscape areas (MWELO)	5.304.1	X									
Mandatory	Mandatory	Recycled water supply systems	PAMC 16.12.030/	X									
Mandatory	Mandatory	Cooling Tower Water Use (locally amended)	PAMC 16.14.350 Section 5.307		NOT APPLICABLE								
Mandatory	Mandatory	Invasive species prohibited	PAMC 16.14.330 Section 5.304.2	X									
Mandatory	Mandatory	Non-residential enhanced water budget required when use > 1,000 gal/day	PAMC 16.14.340 Section 5.306		NOT APPLICABLE								
Electives	Electives	Indoor water use: 25% reduction	A5.303.2.3.1	6									
Electives	Electives	Nonpotable water systems for indoor water use	A5.303.2.3.4										
Electives	Electives	Appliances and fixtures for commercial application	A5.303.3										
Electives	Electives	Nonwater supplied urinals	A5.303.4.1										
Electives	Electives	Outdoor Water Use: Restoration of areas disturbed by construction	A5.304.6										
Electives	Electives	Outdoor Water Use: Previously developed sites: restore or protect 50 % of site area	A5.304.7										
Electives	Electives	Outdoor Water Use: Graywater irrigation system	A5.304.8										
Electives	Electives	Nonpotable water systems	A5.305.7										
Electives	Electives	Irrigation system: Recycled water	A5.305.2										
5.4 Material Conservation and Resource Efficiency													
Tier 2 Mand.	Tier 2 Mand.	Recycled content: 15%	A5.405.4	X									
Mandatory	Mandatory	Weather protection	5.407.1					See Foundation inspection checklist.					
Mandatory	Mandatory	Moisture control: Sprinklers	5.407.2.1										
Mandatory	Mandatory	Moisture control: Entries + Openings	5.407.2.2										
Mandatory	Mandatory	Moisture control: Exterior door protection	5.407.2.2.1										
Mandatory	Mandatory	Moisture control: Flashing	5.407.2.2.2										
Mandatory	Mandatory	Construction waste management	5.408.1										
Mandatory	Mandatory	Construction waste management plan	5.408.1.1										
Mandatory	Mandatory	Waste management company	5.408.1.2										
Mandatory	Mandatory	Waste stream reduction alternative	5.408.1.3										
Mandatory	Mandatory	Documentation: Construction waste management plan, waste management company, waste stream reduction alternative	5.408.1.4										
Mandatory	Mandatory	Excavated soil and land clearing debris (100% reuse or recycle)	5.408.3										
Tier 2 Mand.	Tier 2 Mand.	Enhanced construction waste reduction 80% diversion rate for projects exceeding $25,000 in value; 65% diversion rate for projects less than $25,000)	PAMC 16.14.410/ A5.408.3.1.1					See www.greenhalosystems.com					
Mandatory	Mandatory	Recycling by occupants (with exceptions)	5.410.1	X									
Mandatory	Mandatory	Commissioning (≥ 10,000 SF) *[N]*	5.410.2		NOT APPLICABLE								
Mandatory	Mandatory	Commissioning plan *[N]*	5.410.2.3	X									
Mandatory	Mandatory	Functional performance testing *[N]*	5.410.2.4	X									
Mandatory	Mandatory	ENERGY STAR Portfolio Manager profile setup (for projects exceeding $100,000 in value)	PAMC 16.14.360 / 5.410.4.6	X									
Mandatory	Mandatory	Performance Review- For projects over 10,000 SF	PAMC 16.14.370 / 5.410.4.7		NOT APPLICABLE								
Mandatory	Mandatory	Performance Review (For sites > 1 acre)	PAMC 16.14.380/ 5.410.4.8		NOT APPLICABLE								
Mandatory	Mandatory	Documentation and Training: Systems manual	5.410.2.5.1	X									
Mandatory	Mandatory	Documentation and Training: Systems operations training *[N]*	5.410.2.5.2	X									
Mandatory	Mandatory	Commissioning report *[N]*	5.410.2.6	X									
Mandatory	Mandatory	Testing and adjusting for new buildings < 10,000 SF or new systems that serve additions or alterations *[N]* *[AA]*	5.410.4	X									
Mandatory	Mandatory	Testing and adjusting for systems: Renewable energy, landscape irrigation, and water reuse	5.410.4.2	X									
Mandatory	Mandatory	Testing and adjusting: Procedures	5.410.4.3	X									
Mandatory	Mandatory	Testing and adjusting: HVAC balancing	5.410.4.3.1	X									
Mandatory	Mandatory	Testing, adjusting and balancing: Reporting for HVAC balancing	5.410.4.4	X									
Mandatory	Mandatory	Operation and maintenance (O&M) manual	5.410.4.5	X									
Mandatory	Mandatory	Performance reviews- Water (sites > 1 acre)	PAMC 16.14.380/ Sect.5.410.4.8		NOT APPLICABLE								
Mandatory	Mandatory	Inspection and reports (new buildings / additions and alterations < 10,000 SF) *[AA]* + *[N]*	5.410.4.5.1	X									

						Compliance Path Verification							
						Plan Check		Rough GB Inspection IVR # 152		Final Inspection IVR # 153			
5.4 Material Conservation and Resource Efficiency, continued		**Code Section**	**Y**	**N**	**Plan Sheet, Spec or Attachment Reference**	CORR	INITIAL	CORR	INITIAL	Part 1 CORR	Part 1 INITIAL	Part 2 CORR	Part 2 INITIAL
Electives (choose 3)	Electives	Wood Framing: Structural or fire-resistance integrity	A5.404.1.1										
	Electives	Wood Framing: Framing specifications	A5.404.1.2										
	Electives	Regional materials	A5.405.1										
	Electives	Bio-based materials: Rapidly renewable materials	A5.405.2.2										
	Electives	Reused materials	A5.405.3										
	Electives	Cement and concrete: Cement	A5.405.5.1										
	Electives	Cement and concrete: Concrete	A5.405.5.2										
	Electives	Additional means of compliance- Cement: Alternative fuels	A5.405.5.3.1.1										
	Electives	Additional means of compliance- Cement: Alternative power	A5.405.5.3.1.2										
	Electives	Additional means of compliance- Concrete: Alternative energy	A5.405.5.3.2.1										
	Electives	Additional means of compliance- Concrete: Recycled aggregate	A5.405.5.3.2.2										
	Electives	Additional means of compliance- Concrete: Mixing water	A5.405.5.3.2.3										
	Electives	Additional means of compliance- Concrete: High strength concrete	A5.405.5.3.2.4										
	Electives	Choice of materials: Service life	A5.406.1.1										
	Electives	Choice of materials: Reduced maintenance	A5.406.1.2										
	Electives	Choice of materials: Recyclability	A5.406.1.3										
	Electives	Life Cycle Assessment shall be ISO 14044 compliant	A5.406.1										
	Electives	Whole building life cycle assessment	A5.409.2										
	Electives	Materials and system assemblies	A5.409.3										
	Electives	Substitution of prescriptive standards	A5.409.4										
5.5 Environmental Quality													
Mandatory	Mandatory	Fireplaces	5.503.1		NOT APPLICABLE								
	Mandatory	Temporary ventilation (MERV 8)	5.504.1	X									
	Mandatory	Covering of duct openings and protection of mechanical equipment during construction	5.504.3	X									
	Mandatory	Adhesives, sealants and caulks: Comply with VOC limits (Table 5.504.4.1 and 5.504.4.2 for VOC	5.504.4.1	X									
	Mandatory	Paints and Coatings: Comply with VOC Limits (Table 5.504.4.3)	5.504.4.3	X									
	Mandatory	Aerosol paints and coatings	5.504.4.3.1	X									
	Mandatory	Verification, for paints and coatings	5.504.4.3.2	X									
	Mandatory	Carpet systems: Carpet cushion	5.504.4.4.1	X									
	Mandatory	Carpet systems: Carpet adhesive (Table 5.504.4.1 for VOC limits)	5.504.4.4.2	X									
	Mandatory	Composite wood products: Formaldehyde limits (Table 5.504.4.5)	5.504.4.5	X									
	Mandatory	Composite wood products: Documentation	5.504.4.5.3	X									
	Mandatory	Verification of compliance, for resilient flooring systems	5.504.4.6.1	X									
	Tier 2 Mand.	Resilient flooring system; 100%	PAMC 16.18.070 & 16.14.080/ A5.504.4.7										
	Tier 2 Mand.	Thermal insulation: No added formaldehyde	PAMC 16.18.070 & 16.14.080/ A5.504.4.8.1										
	Mandatory	Environmental tobacco smoke (ETS) control	5.504.7	X									
	Mandatory	Outside air delivery (For Indoor Air Quality)	5.506.1	X									
	Mandatory	Carbon dioxide (CO2) monitoring (For Indoor Air Quality)	5.506.2	X									
	Mandatory	Indoor Air Quality Management Plan	PAMC 16.14.390/	X									
	Mandatory	Acoustical control (STC Values per ASTM E90 and ASTM E413)	5.507.4	X									
	Mandatory	Exterior noise transmission, prescriptive method (with exceptions)	5.507.4.1	X									
	Mandatory	Noise exposure where noise contours are not readily available	5.507.4.1.1	X									
	Mandatory	Exterior noise transmission, performance method	5.507.4.2	X									
	Mandatory	Site features	5.507.4.2.1	X									
	Mandatory	Documentation of compliance	5.507.4.2.2	X									
	Mandatory	Interior sound transmission (with note)	5.507.4.3	X									
	Mandatory	Ozone depletion and greenhouse gas reductions	5.508.1	X									
	Mandatory	Chlorofluorocarbons (CFC's)	5.508.1.1	X									
	Mandatory	Halons	5.508.1.2		NOT APPLICABLE								
	Mandatory	Supermarket refrigerant leak reduction	5.508.2		NOT APPLICABLE								
	Mandatory	Refrigerant piping	5.508.2.1		NOT APPLICABLE								
	Mandatory	Refrigerant piping valves	5.508.2.2		NOT APPLICABLE								
	Mandatory	Refrigerant piping access valves	5.508.2.2.2		NOT APPLICABLE								
	Mandatory	Refrigerated service case	5.508.2.3		NOT APPLICABLE								
	Mandatory	Refrigerant receivers	5.508.2.4		NOT APPLICABLE								
	Mandatory	Pressure testing	5.508.2.5		NOT APPLICABLE								
	Mandatory	Evacuation (after pressure testing)	5.508.2.6		NOT APPLICABLE								
	Electives	Indoor air quality (IAQ) during constructions: Temporary ventilation	A5.504.1.1										
	Electives	Indoor air quality (IAQ) during constructions: Additional IAQ measures	A5.504.1.2										
	Electives	IAQ postconstruction	A5.504.2										
	Electives	IAQ testing	A5.504.2.1										
	Electives	Maximum levels of contaminants	A5.504.2.1.1										
	Electives	Test protocols	A5.504.2.1.2										
	Electives	Noncomplying building areas	A5.504.2.1.3										
	Electives	Acoustical ceiling and wall panels	A5.504.4.9										
	Electives	Hazardous particulates and chemical pollutants	A5.504.5										
	Electives	Entryway systems (to control pollutants)	A5.504.5.1										
	Electives	Isolation of pollutant sources (to control pollutants)	A5.504.5.2										
	Electives	Lighting and thermal comfort controls: Single occupant spaces- Lighting and Thermal Comfort	A5.507.1.1.1/A5.507.1.2										
	Electives	Lighting and thermal comfort controls: Multi-occupant spaces	A5.507.1.2										
	Electives	Daylight: Toplighting and sidelighting	A5.507.2										
	Electives	Views: Direct line of sigs to outdoors: interior office spaces	A5.507.3.1										
	Electives	Views- Multi-occupant spaces	A5.507.3.2										
	Electives	Hydro-chlorofluorcarbons (HCFCs) (for HVAC and refrigeration equipment)	A5.508.1.3										
	Electives	Hydro-fluorocarbons (HFCs) (for HVAC, refrigeration and fire suppression equipment)	A5.508.1.4										
Required Additional Electives (Choose 3 additional Electives from any category)			**A5.601.3.1**										
Tier 2 Mand.	Tier 2 Mand.		A5.601.3.4										
Tier 2 Mand.	Tier 2 Mand.		A5.601.3.4										
Tier 2 Mand.	Tier 2 Mand.		A5.601.3.4										

Legend:

Y - Yes; the measure is in the scope of work
N - No; the measure is not in the scope of work
PAMC - Palo Alto Municipal Code; locally amended
[N] - New Construction
[MF] - Multi-family dwellings
[AA] - Additions and alterations
[HR] - High-rise building

The Green Building Survey is a required project submittal. The survey can be found at the following link. The online survey shall be completed and a Green Building Survey Report will be sent in an email. Include a copy of the survey report on a separate page in this plan set. Please indicate the reference page here _____.

The ENERGY STAR Portfolio Manager profile is a required project submittal and can be created at the following link. The Portfolio Manager profile shall be opened and a screenshot shall be included on a separate page in this plan set. Please indicate the reference page here _____.

For more information on energy benchmarking, please visit City of Palo Alto Utilities "Benchmarking Your Building" webpage here.

CITY STAMPS ONLY

Special Inspector Acknowledgement

The project will be verified by a COMMERCIAL GREEN BUILDING SPECIAL INSPECTOR

I have reviewed the project plans and specifications, and they are in conformance with the CALGreen mandatory and elective measures claimed. I have reviewed and understand the after-construction requirements below.

Signature (Green Building Special Inspector)

Print Name

Phone or Email

Date

SECTION TO BE COMPLETED AFTER CONSTRUCTION

In order to schedule a final building inspection with the Building Department, follow the procedures below.

☐ Schedule a two-part Final Green Building Inspection with the City Green Building Personnel in accordance with the Palo Alto Non-Residential Green Building Inspection Guideline.

☐ At Part 1 of the Final Green Building Inspection prepare all submittals and supporting documentation for the items identified with an "X" under the "Y" column of this sheet in accordance with the Green Building Inspection Guideline.

☐ At Part 2 of the Final Green Building Inspection prepare for a field inspection for the items identified with an "X" under the "Y" column of this sheet in accordance with the Green Building Inspection Guideline.

I certify that:

☐ There have been no alterations that have impacted the energy report for the project, unless the new report is provided.

☐ All mandatory CALGreen measures and required electives noted in the checklist have been implemented, unless a new checklist is provided along with support for alternative electives claimed.

Within six months (6) from the date of final inspection I will provide the City with the project's Commissioning Report (only required for new projects over 10,000 SF) and execute compliance with landscaping measures, unless completed at the time of final inspection.

Signature (Green Building Special Inspector)
Sign only after project is complete

Print Name

Date

Project Address: 3600 Middlefield Road

2022 NONRESIDENTIAL CHECKLIST - CALGREEN MANDATORY + TIER 2

PALO ALTO FIRE DEPARTMENT
STATION NO.4 REPLACEMENT

3600 MIDDLEFEILD ROAD
PALO ALTO, CA 94303

BROWN REYNOLDS WATFORD
ARCHITECTS
1620 MONTGOMERY
SUITE 320
SAN FRANCISCO, CA 94111
415.749.2670
WWW.BRWARCH.COM

2022 NONRESIDENTIAL GREEN BUILDING APPLICATION **CALGREEN MANDATORY + TIER 2**

Version 01/23

Application: This plan sheet is for nonresidential new construction or additions of 1,000 SF or greater (PAMC 16.14.080).

CITY OF PALO ALTO

Title 24, Part 11, California Green Building Code (CALGreen) https://www.dgs.ca.gov/BSC/CALGreen
City of Palo Alto Development Center Green Building Requirements https://www.cityofpaloalto.org/Departments/Planning-Development-Services/Development-Services/Green-Building/Compliance
City of Palo Alto Green Building Ordinance 5570 (PAMC 16.14 Amendments) https://codelibrary.amlegal.com/codes/paloalto/latest/paloalto_ca/0-0-0-72369

GB-1
MANDATORY
+TIER 2

P-1

GB-1 GREEN BUILDING CHECKLIST

JUNE 30, 2023

FROM MIDDLEFIELD RD

FROM EAST MEADOW

FROM MIDDLEFIELD RD

FROM EAST MEADOW

AERIAL

BROWN REYNOLDS WATFORD
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1620 MONTGOMERY
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Q-1

EXTERIOR
RENDERINGS

JUNE 30, 2023