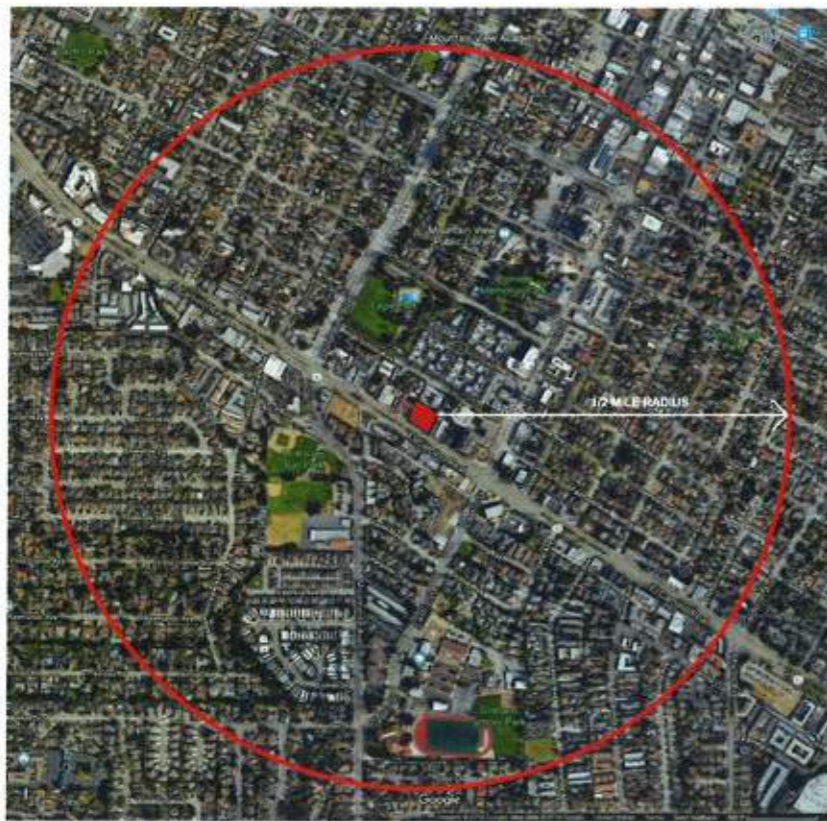


- CIVIL ENGINEER**
Luk and Associates
738 Alfred Nobel Drive
Menlo Park, CA 94027
510-724-3388
- STRUCTURAL ENGINEER**
Murphy Burr Curry, Inc.
85 Second Street, Suite 501
San Francisco, CA 94105
415-689-5322
- MEP ENGINEER**
FARD Engineers
209 Lennor Ln # 200
Walnut Creek, CA 94598
925-952-8585
- LANDSCAPE ARCHITECT**
Hill Associates
100 Oakdale Drive
Aptos, CA 95023
408-761-5184

CONTEXT MAP



PROJECT DATA

ECR Precise Plan Area: Castro/Miramonte
 APN: 158-07-019
 Lot Area: 26,531 sf
 FAR: 1.99
 Density: 117 du/acre
 Building Coverage: 28.8%
 Common Usable Open Space: 9,720 sf
 Total Parking: 28 car, 5 motorcycle spaces
 Accessible Parking: 1 space
 Bicycle Parking: 71 spaces
 Storage: 71 storage units
 Construction Type: Type VA/IA

PROJECT DESCRIPTION

950 W El Camino Real is a new 71 unit affordable housing community in Mountain View. The design follows the principles of the El Camino Real Precise Plan in the Castro/Miramonte area and supports an active street frontage through a tall first floor with plentiful storefront windows, an inviting entry area, and a community room facing El Camino Real.

Transparency from the El Camino Real frontage is provided through the secure, naturally ventilated lobby that spans across the building to the north facade, and in the resident lounges on each floor that stack above the entry. A recess in massing denotes the building entry with a vertical steel structure that features colorful accent glazing. Plantings extend from the entry landscape into the building, further emphasizing the connection between the street frontage and the open air lobby.

West of the entry, a vertical tower element extends to the roof deck where it transitions into a covered common area for residents. East of the entry, a mass with metal siding and undulating sunshades overhangs the first floor. The curved area adjacent to the entry frames a screened common deck on each residential level of the building. On the El Camino Real frontage, the fifth floor is set back with a material change to deemphasize the height of the building. Massing at the east and west facades also steps back at the upper level, and there is a wide setback from the adjacent residential property to the north. Railing alternates with solid parapets around the perimeter of the building to create variation at the roof line.

The spacious common roof deck includes a raised photovoltaic canopy on a steel structure to offset energy use. The project will pursue the LEED for Homes rating system and will include a variety of other green building features, from energy efficient HVAC systems and Energy Star appliances, to low-flow fixtures and drought tolerant planting.

PROJECT DIRECTORY SHEET INDEX

- OWNER**
Palo Alto Housing
725 Alma Street
Palo Alto, CA 94301
650-321-9709
- ARCHITECT**
Van Meter Williams Pollack
333 Bryant Street, Suite 300
San Francisco, CA 94107
415-974-5352
- CIVIL ENGINEER**
Luk and Associates
738 Alfred Nobel Drive
Hercules, CA 94547
51-724-3388
- LANDSCAPE ARCHITECT**
Hill Associates
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408-761-3184

#	SHEET NAME
SCHEMATIC DESIGN	
A0.0	2/20/18 SCHEMATIC DESIGN
A0.1	NEIGHBORHOOD CONTEXT
A1.0	ILLUSTRATIVE SITE PLAN & PROJECT DATA
A1.1	DETAILED SITE PLAN
A1.2	RENDERINGS
A2.0	FIRST FLOOR PLAN
A2.1	SECOND AND THIRD FLOOR PLANS
A2.2	FOURTH AND FIFTH FLOOR PLANS
A2.3	ROOF PLAN & TYPICAL UNIT
A3.0	EXTERIOR ELEVATIONS
A3.1	BUILDING SECTIONS
A3.2	BUILDING SECTIONS
A5.0	SCHEMATIC DETAILS
A5.1	COLORS AND MATERIALS
L-1	CONCEPTUAL LANDSCAPE PLAN
L-2	TREE DISPOSITION PLAN
L-3	TREE PROTECTION PLAN
L-4	IRRIGATION WATER USE CALCULATION
L-5	LANDSCAPE PLANTING PLAN
SV-1	SURVEY 1 OF 2
SV-2	SURVEY 2 OF 2
C-3	PRELIMINARY DEMOLITION PLAN
C-4.1	IMPROVEMENT PLAN
C-5	PRELIMINARY STORMWATER CONTROL PLAN
A6.0	SOLAR STUDY
A6.1	PHOTOMETRIC PLAN & FIXTURES
A6.2	OPEN SPACE DIAGRAM
A6.3	PLANNING & FIRE DIAGRAMS
A6.4	EXITING DIAGRAMS
A6.5	OCCUPANCY TABLE
S2.0	FIRST FLOOR PLAN
S2.1	SECOND FLOOR PLAN
S2.2	THIRD FLOOR PLAN
S2.3	FOURTH FLOOR PLAN
S2.4	FIFTH FLOOR PLAN
S2.5	ROOF PLAN
M0.1	LEGEND & NOTES
M0.2	SCHEDULES
M2.1	LEVEL 1
M2.2	LEVEL 2
M2.3	LEVEL 3
M2.6	ROOF PLAN
M4.1	UNIT PLANS
M5.1	DETAILS

#	SHEET NAME
P0.1	LEGEND AND NOTES
P0.2	SCHEDULES
P2.1	LEVEL 1
P2.2	LEVEL 2
P2.3	LEVEL 3
P2.6	ROOF PLAN
P4.1	UNIT PLANS
E0.1	NOTES & LEGENDS
E0.2	SCHEDULES
E1.1	SITE PLAN
E2.1	LEVEL 1 POWER & SIGNAL
E2.2	LEVEL 2 POWER & SIGNAL
E2.3	LEVEL 3 POWER & SIGNAL
E2.4	LEVEL 4 POWER & SIGNAL
E2.5	LEVEL 5 POWER & SIGNAL
E2.6	ROOF PLAN
E3.1	LEVEL 1 LIGHTING
E3.2	LEVEL 2 LIGHTING
E3.3	LEVEL 3 LIGHTING
E3.4	LEVEL 4 LIGHTING
E3.5	LEVEL 5 LIGHTING
E4.1	ENLARGED UNIT PLANS
E5.1	SINGLE LINE DIAGRAM
E5.2	LOW VOLTAGE RISER DIAGRAM
E5.3	FIRE ALARM RISER DIAGRAM
E6.1	LOAD CALCULATIONS

Project:
950 W EL CAMINO REAL

950 W EL CAMINO REAL
MOUNTAIN VIEW, CA 94040

Client:
PALO ALTO HOUSING
725 Alma St
Palo Alto, CA 94301
(650) 321-9709

2/20/18 SCHEMATIC DESIGN

Job# 1733
Date: 2/21/18
Scale: AS NOTED

A0.0

Bill Seaver: 20171230-940W-ECR-1733-000-04-DCR1 (Printed on 2/21/18 at 4:05 PM)

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35 Second Street, Suite 501
San Francisco, CA 94105
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MEP ENGINEER
FARD Engineers
220 Leimont Ln # 200
Woodland Creek, CA 94596
925-952-6508

LANDSCAPE ARCHITECT
Hill Associates
100 Castille Drive
Palo Alto, CA 94303
650.761.3184



6
A0.1 EL CAMINO REAL STREET ELEVATION



5
A0.1 SITE AERIAL
STREET VIEW PERSPECTIVES MARKED IN RED



4
A0.1 VIEW LOOKING WEST FROM EL CAMINO REAL



2
A0.1 VIEW LOOKING EAST FROM EL CAMINO REAL



3
A0.1 VIEW FROM REAR OF SITE



1
A0.1 VIEW LOOKING WEST FROM EL CAMINO REAL

Project:

950 W EL CAMINO REAL

950 W EL CAMINO REAL
MOUNTAIN VIEW, CA 94040

Client:

PALO ALTO HOUSING

725 Alma St
Palo Alto, CA 94301
(650) 321-8709

NEIGHBORHOOD CONTEXT

Job#: 1733

Date: 2/13/18

Scale: AS NOTED

A0.1

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FARD Engineers
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Walnut Creek, CA 94596
925-952-8505
- LANDSCAPE ARCHITECT
Hill Associates
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Albany, CA 95003
408-761-3184

- LEGEND**
- 1 (E) HYDRANT
 - 2 (N) HYDRANT
 - 3 GAS METER
 - 4 FIRE BFP
 - 5 FDC
 - 6 DOMESTIC BFP
 - 7 IRRIGATION BFP
 - 8 TRANSFORMER VAULT
 - 9 (N) BICYCLE RACKS, S.L.D.
 - 10 (E) CONC. WALL
 - 11 PERMEABLE PAVERS, S.L.D.
 - 12 STORMWATER INFILTRATION PLANTER, RAISED, S.C.D.
 - 13 SLIDING VEHICLE GATE
 - 14 PEDESTRIAN GATE
 - 15 (N) WOOD FENCE
 - 16 SEATING AREA, S.L.D.
 - 17 (E) TREE TO REMAIN
 - 18 (N) TREE, S.L.D.
 - 19 (E) STREET LIGHT
- PROPERTY LINE
 - - - SETBACKS
 - x - x - NEW FENCE
 - /// EASEMENT
 - - - BUILDING OVERHANG
 - TREE, S.L.D.
 - EV WIRED FOR FUTURE ELECTRIC VEHICULAR CHARGING STATION



Project:
950 W EL CAMINO REAL
MOUNTAIN VIEW, CA 94040

Client:
PALO ALTO HOUSING
725 Alma St
Palo Alto, CA 94301
(650) 321-9700



3 EL CAMINO REAL AERIAL



1 EL CAMINO REAL ENTRANCE

**VAN METER
WILLIAMS
POLLACK LLP**

ARCHITECTS | ENGINEERS | ENVIRONMENTAL SCIENTISTS
2200 Broadway, Suite 200, San Francisco, CA 94109 | 415.774.1000
1700 Powell Street, Suite 200, San Jose, CA 95128 | 408.950.1000

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LANDSCAPE ARCHITECT

Hill Associates
100 Oakdale Drive
Alpine, CA 92003
408.781.2184

Project:

950 W EL CAMINO REAL

950 W EL CAMINO REAL
MOUNTAIN VIEW, CA 94040

Client:

PALO ALTO HOUSING

725 Alma St
Palo Alto, CA 94301
(650) 321-9709

RENDERINGS

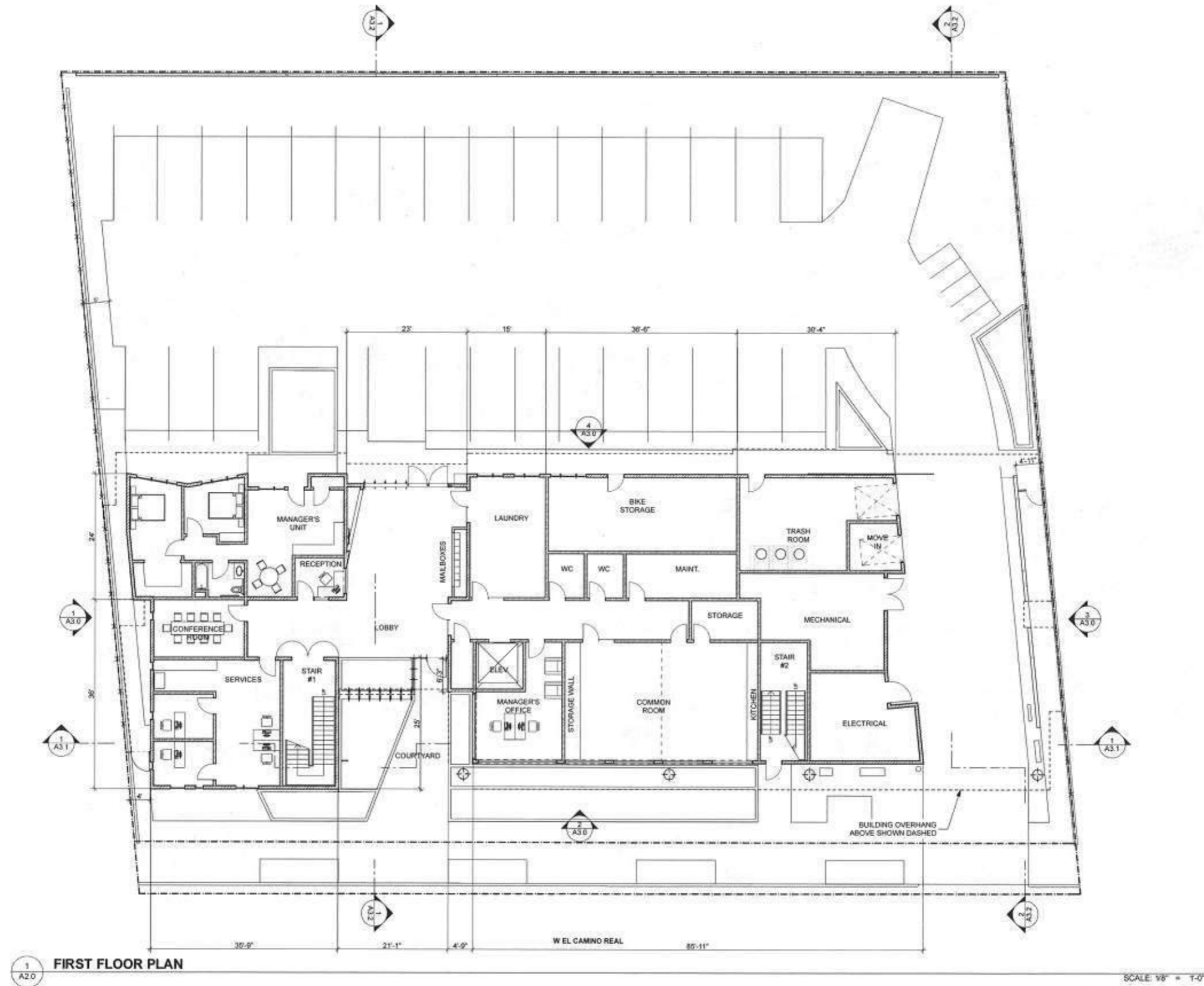
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Date: 2/13/18

Scale: AS NOTED

A1.2

- CIVIL ENGINEER
Luk and Associates
128 Almaden Road
San Jose, CA 95128
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- STRUCTURAL ENGINEER
Murphy Burr Cury, Inc.
95 Second Street, Suite 511
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- MEP ENGINEER
FARD Engineers
308 Leavenworth St # 200
Mountain View, CA 94039
925-932-5555
- LANDSCAPE ARCHITECT
Hill Associates
700 California Street
Alameda, CA 94602
415-761-3188



Project:
**950 W EL CAMINO
REAL**

950 W EL CAMINO REAL
MOUNTAIN VIEW, CA 94040

Client:
**PALO ALTO
HOUSING**

725 Alma St
Palo Alto, CA 94301
(650) 321-9709

FIRST FLOOR PLAN

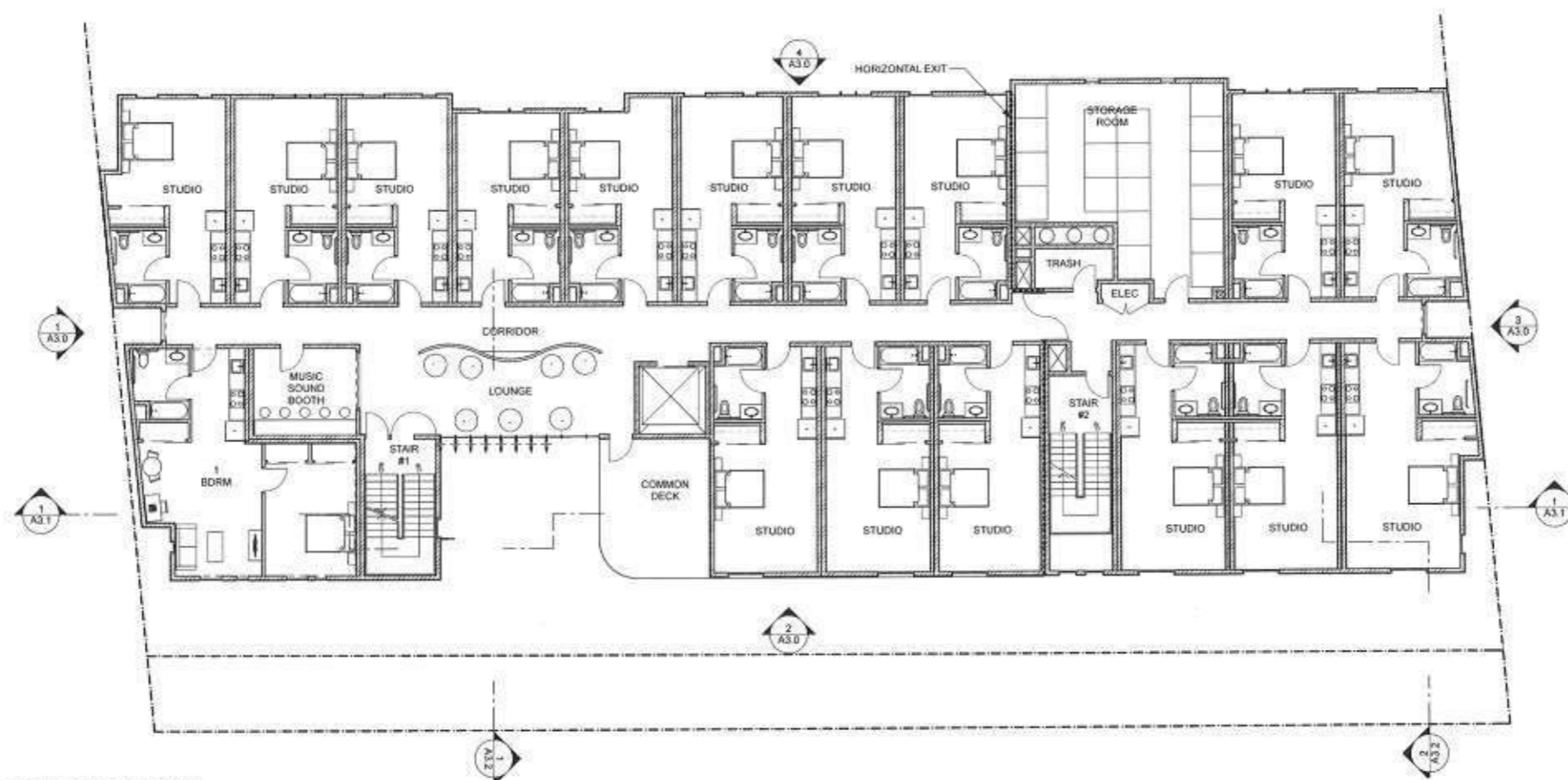
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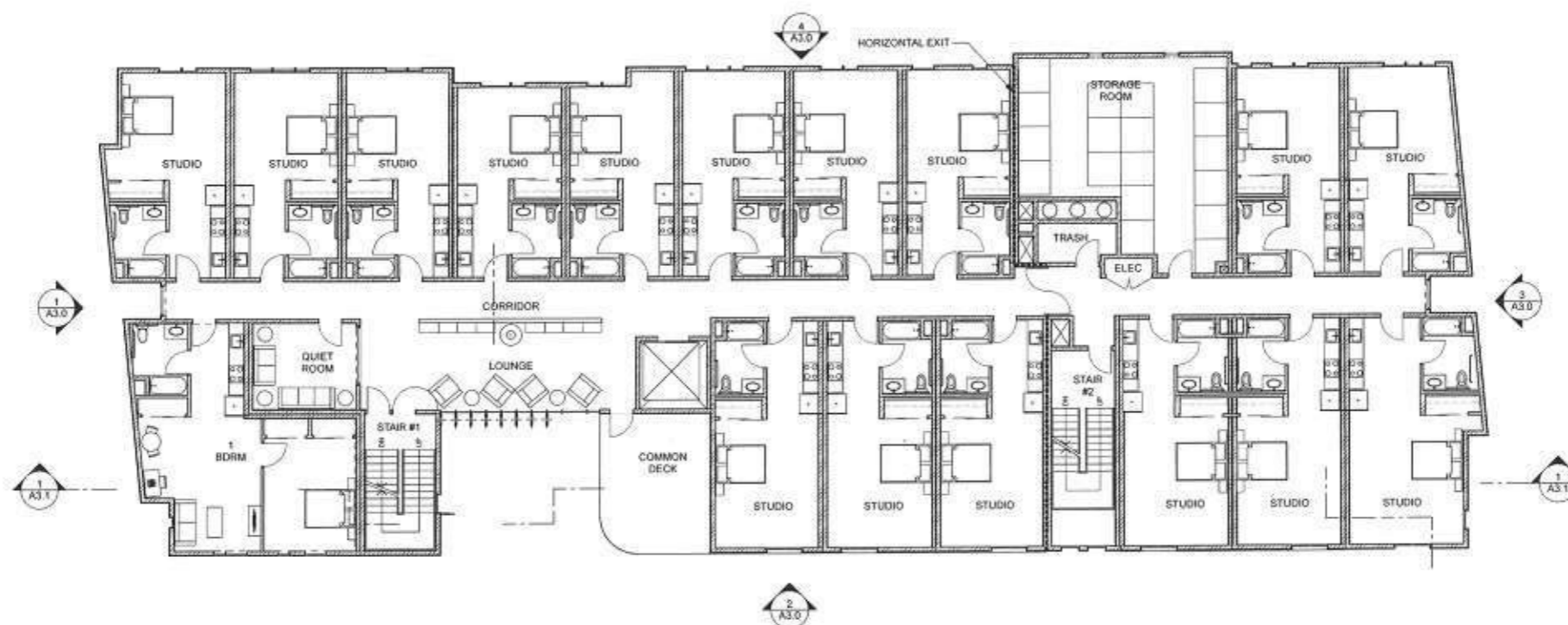


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Luk and Associates
730 Alfred Nobel Drive
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910.224.2388
- STRUCTURAL ENGINEER
Murphy Burr Curry, Inc.
65 Second Street, Suite 400
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- MEP ENGINEER
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Walnut Creek, CA 94598
925.932.5555
- LANDSCAPE ARCHITECT
Hill Associates
700 Oakdale Drive
Alhambra, CA 91803
408.761.3164



1
A2.1 **SECOND FLOOR PLAN**

SCALE: 1/8" = 1'-0"



2
A2.1 **THIRD FLOOR PLAN**

SCALE: 1/8" = 1'-0"

Project:

**950 W EL CAMINO
REAL**

950 W EL CAMINO REAL
MOUNTAIN VIEW, CA 94040

Client:

**PALO ALTO
HOUSING**

725 Alma St
Palo Alto, CA 94301
(650) 321-9709

**SECOND AND THIRD
FLOOR PLANS**

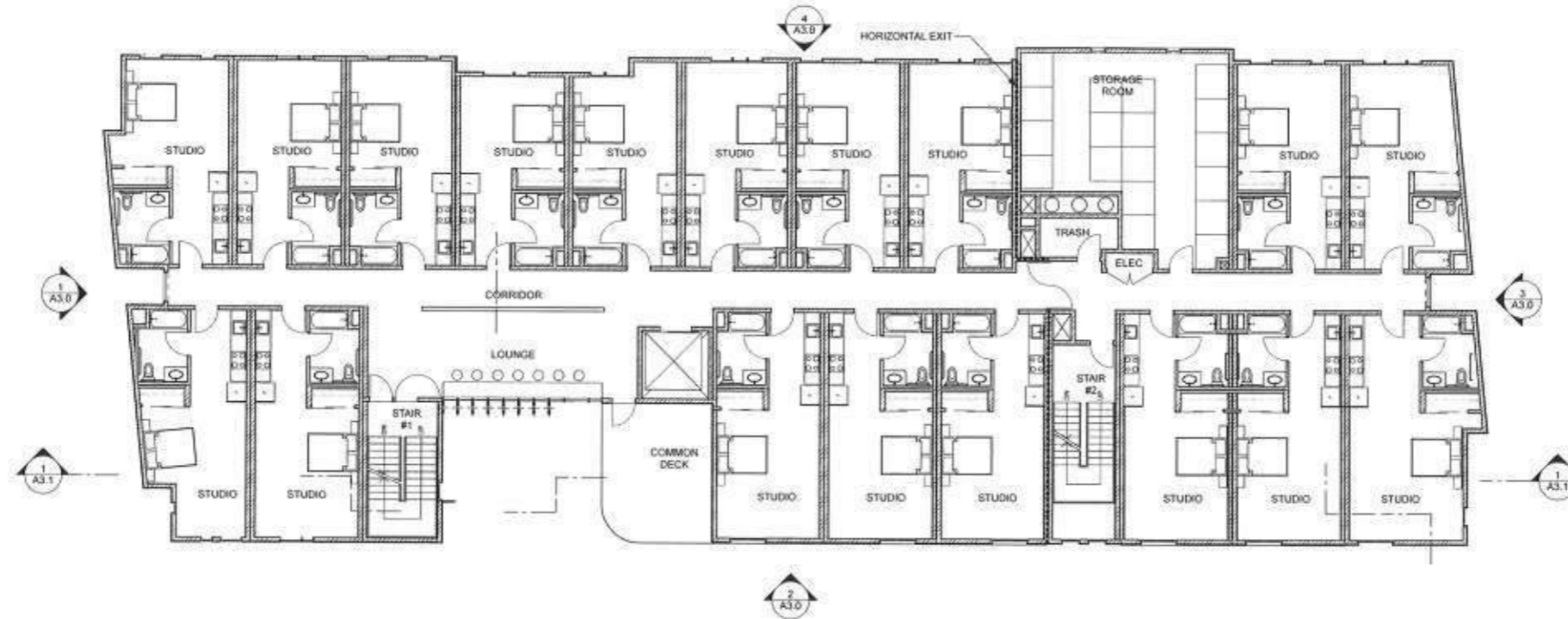
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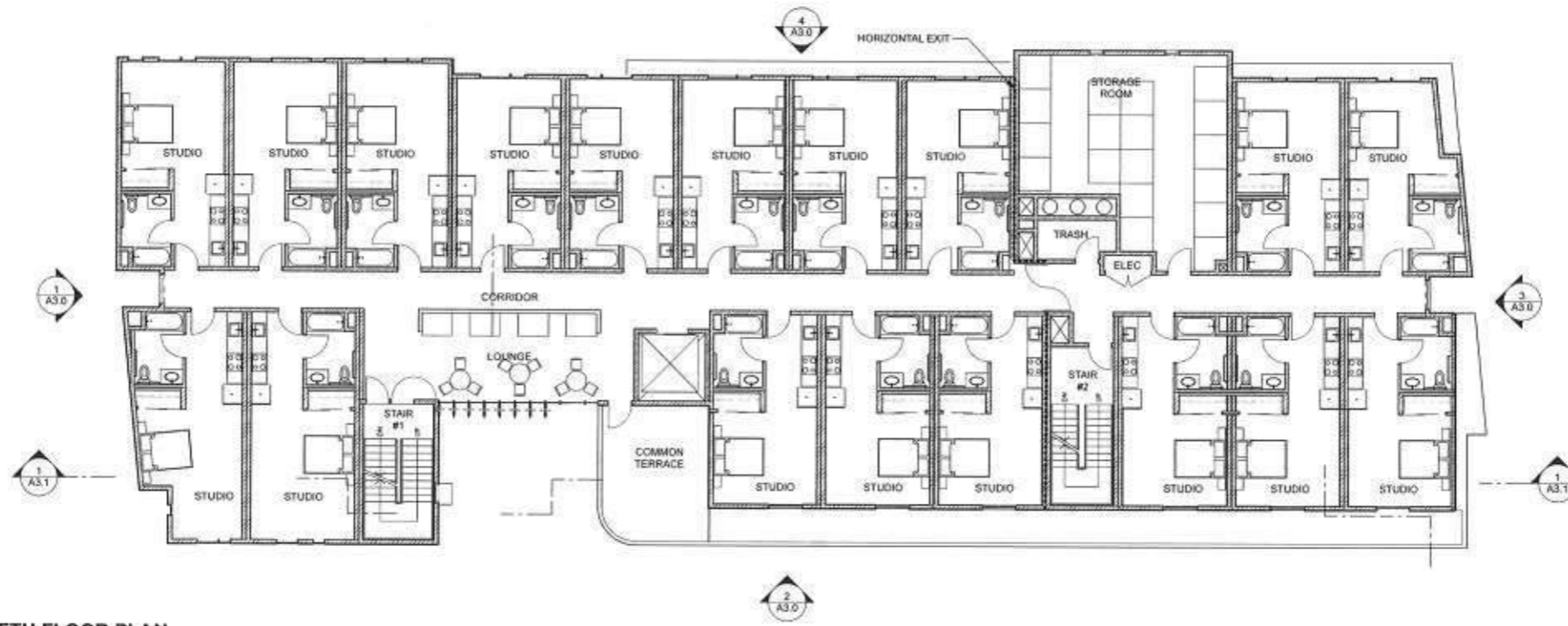


- CIVIL ENGINEER
Luk and Associates
725 Alameda Drive
Marquette, CA 94557
916-724-3389
- STRUCTURAL ENGINEER
Murphy Burr Curry, Inc.
81 Second Street, Suite 511
San Francisco, CA 94105
415-499-5222
- MEP ENGINEER
FARD Engineers
709 Leland Ln # 200
Walnut Creek, CA 94598
925-932-5555
- LANDSCAPE ARCHITECT
Hill Associates
105 Oakdale Drive
Sunnyvale, CA 95008
408-761-3184



1
A2.2 **FOURTH FLOOR PLAN**

SCALE: 1/8" = 1'-0"



2
A2.2 **FIFTH FLOOR PLAN**

SCALE: 1/8" = 1'-0"

BIM Server: 2017/12/15 10:00 AM (UTC-8) [Project] 2/13/18 at 8:00 PM

Project:
950 W EL CAMINO REAL
950 W EL CAMINO REAL
MOUNTAIN VIEW, CA 94040

Client:
PALO ALTO HOUSING
725 Alma St
Palo Alto, CA 94301
(650) 321-8709

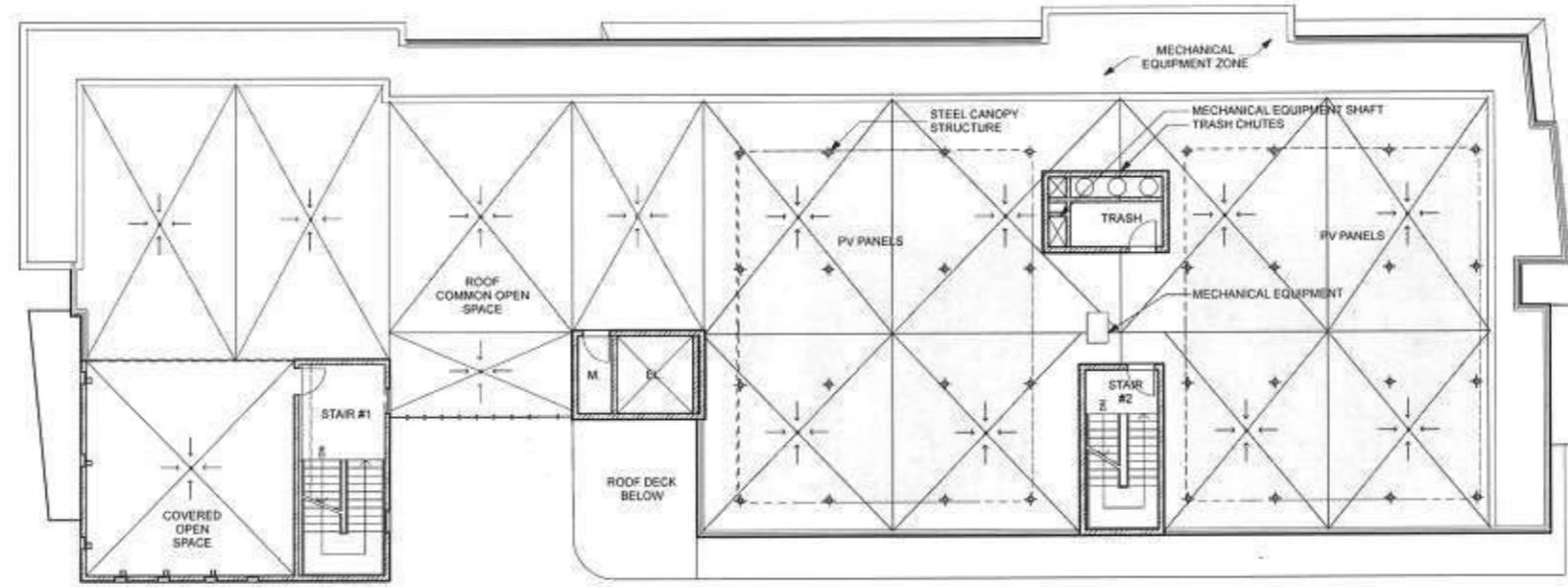
FOURTH AND FIFTH FLOOR PLANS

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Date: 2/13/18
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NOT TO SCALE IF PRINTED 11"x17"



- CIVIL ENGINEER
LJA and Associates
725 Alhambra Drive
Palo Alto, CA 94301
650-724-3399
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FARD Engineers
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Walnut Creek, CA 94596
925-932-5505
- LANDSCAPE ARCHITECT
Hill Associates
100 California Drive
Aptos, CA 95003
408-761-2168



1 ROOF FLOOR PLAN
A2.3

SCALE: 1/8" = 1'-0"



3 TYPICAL UNIT PLAN
A2.3

SCALE: 1/4" = 1'-0"

NOTE: THIS DRAWING IS
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HALF SCALE IF PRINTED 15"x21",
NOT TO SCALE IF PRINTED 11"x17"



Project:
950 W EL CAMINO REAL

950 W EL CAMINO REAL
MOUNTAIN VIEW, CA 94040

Client:
PALO ALTO HOUSING

725 Alhambra St
Palo Alto, CA 94301
(650) 321-0709

ROOF PLAN & TYPICAL UNIT

Job#: 1735
Date: 2/12/18
Scale: AS NOTED

A2.3

COLORS

- A KM 4571 [COBBLESTONE STREET]
- B KM 5824 [WINTER'S PARK]
- C KM 4924 [THUNDERSTRUCK]

MATERIALS

- | | | |
|------------------------------|--------------------|-----------------|
| 1 CEMENT PANEL | 7 STEEL FINIS | 13 ALUMINUM SU |
| 2 CEMENT PLASTER | 8 COLORED GLAZING | 14 RAILING |
| 3 STANDING SEAM | 9 WOOD SLATS | 15 RAISED CMU F |
| 4 PERFORATED STANDING SEAM | 10 VEHICLE GATE | 16 CONCRETE |
| 5 ALUMINUM WINDOW | 11 BUILDING COLUMN | |
| 6 ALUMINUM STOREFRONT SYSTEM | 12 PV CANOPY | |

**VAN METER
WILLIAMS
POLLACK LLP**

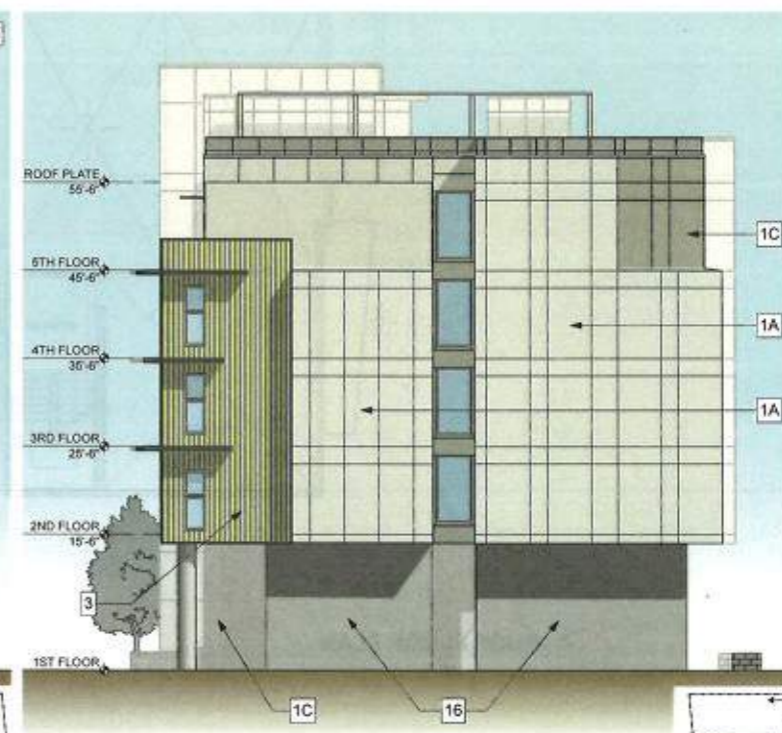
ADDRESS | PHONE | FAX | WEBSITE | EMAIL
22 First Street, Suite 200, San Francisco, CA 94103 | 415.774.4000
17 Market Street, Suite 200, San Francisco | 415.774.4000

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San Francisco, CA 94102
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FARD Engineers
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Oakland, CA 94612
925-830-0985
- LANDSCAPE ARCHITECT
Hill Associates
100 Oakdale Drive
Alamo, CA 94501
415-761-1184



4 NORTH ELEVATION
A3.0

SCALE: 1/8" = 1'-0"



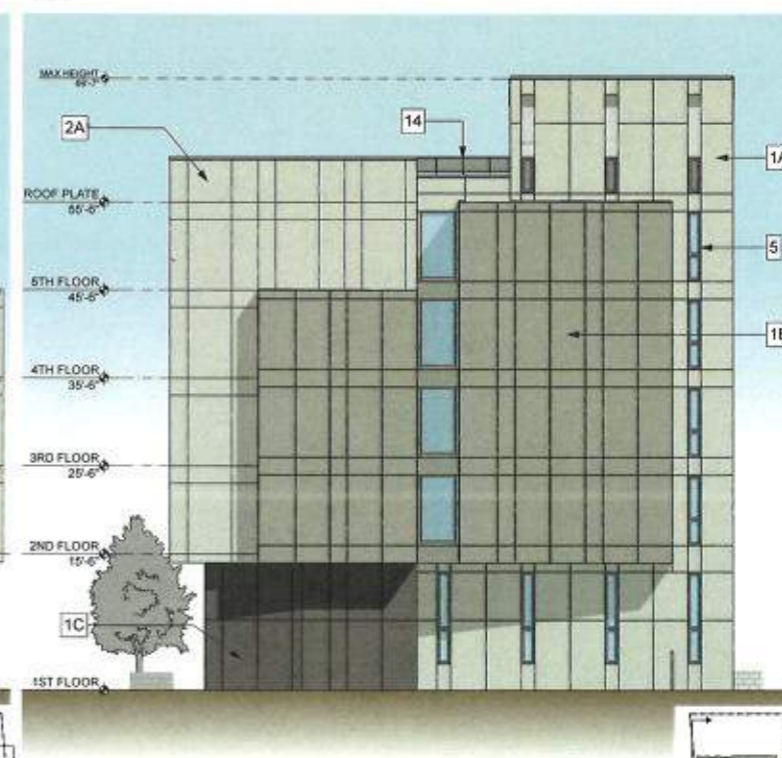
3 EAST ELEVATION
A3.0

SCALE: 1/8" = 1'-0"



2 SOUTH ELEVATION
A3.0

SCALE: 1/8" = 1'-0"



1 WEST ELEVATION
A3.0

SCALE: 1/8" = 1'-0"

Project:
950 W EL CAMINO REAL

950 W EL CAMINO REAL
MOUNTAIN VIEW, CA 94040

Client:
PALO ALTO HOUSING

725 Alma St
Palo Alto, CA 94301
(650) 321-9709

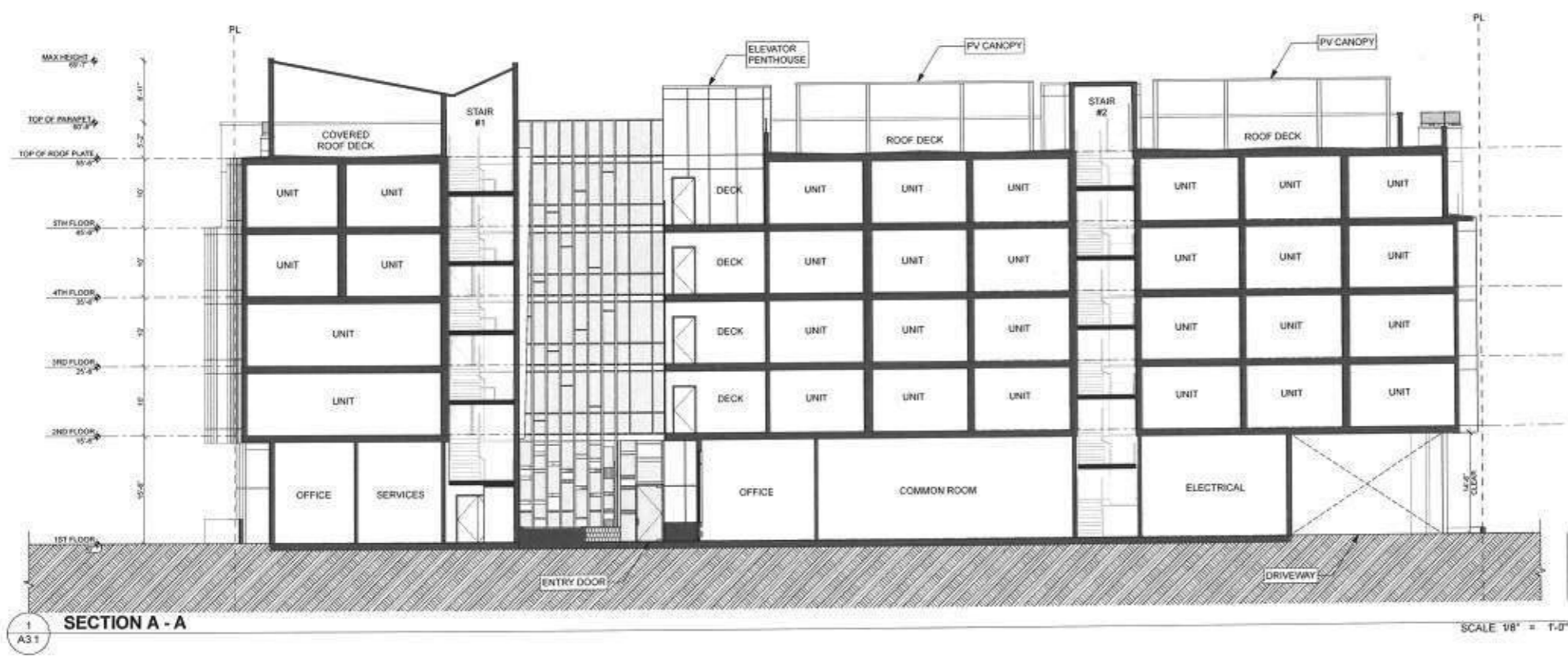
EXTERIOR ELEVATIONS

Job#: 1733
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 Lutz and Associates
 730 Alfred Street Drive
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- STRUCTURAL ENGINEER**
 Murphy Burr Curry, Inc.
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 San Francisco, CA 94105
 415.669.5322
- MEP ENGINEER**
 FARD Engineers
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 Walnut Creek, CA 94596
 925.932.5555
- LANDSCAPE ARCHITECT**
 Hill Associates
 100 Oakdale Drive
 Alhambra, CA 91803
 626.761.2184



Project:

950 W EL CAMINO REAL

950 W EL CAMINO REAL
MOUNTAIN VIEW, CA 94040

Client:

PALO ALTO HOUSING

728 Alma St
Palo Alto, CA 94301
(650) 321-9709

BUILDING SECTIONS

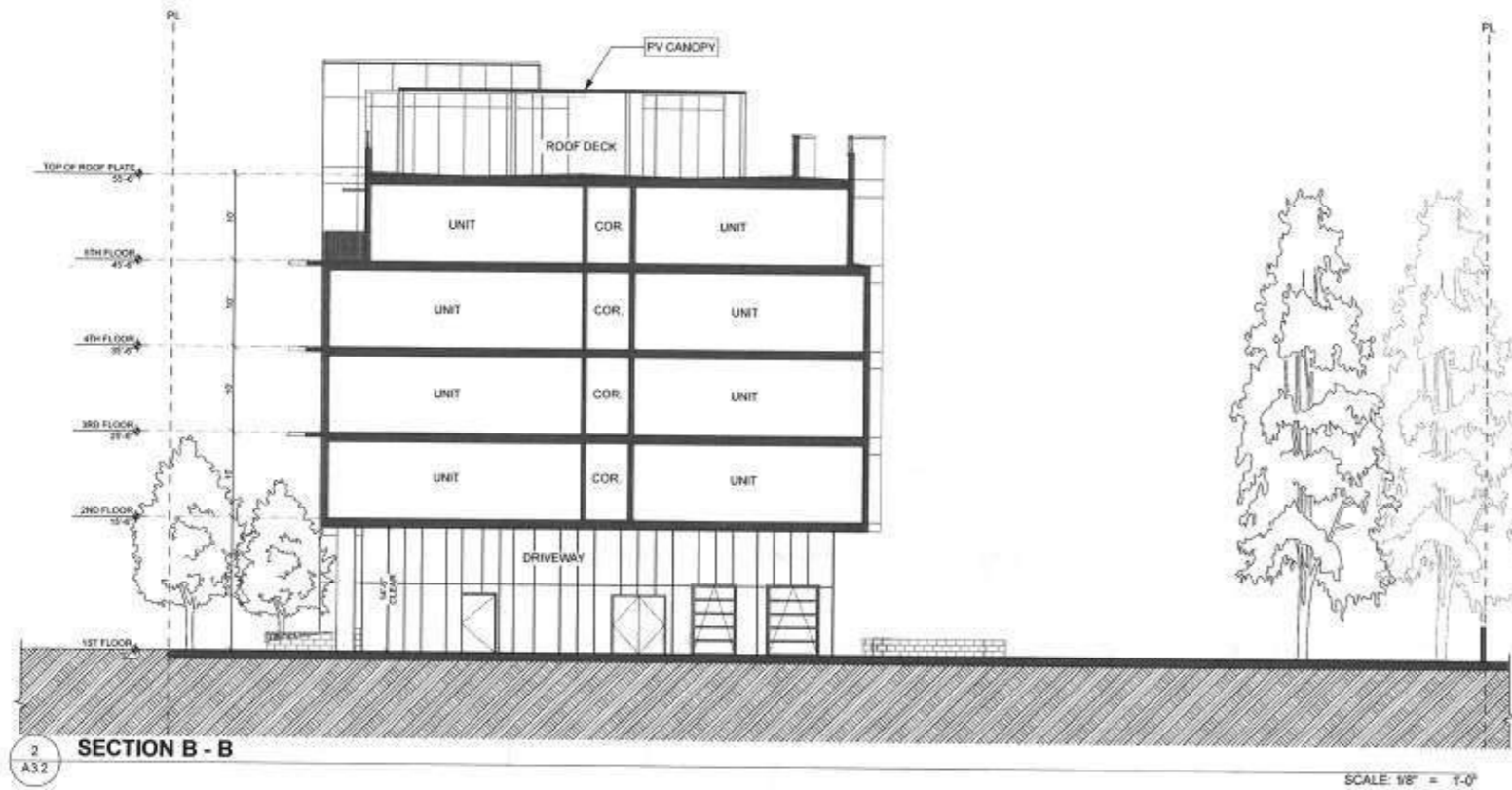
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A3.1

- CIVIL ENGINEER
Luk and Associates
738 Alfred Nobel Drive
Menlo Park, CA 94041
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FARD Engineers
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Hill Associates
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Alhambra, CA 91803
408.781.3184

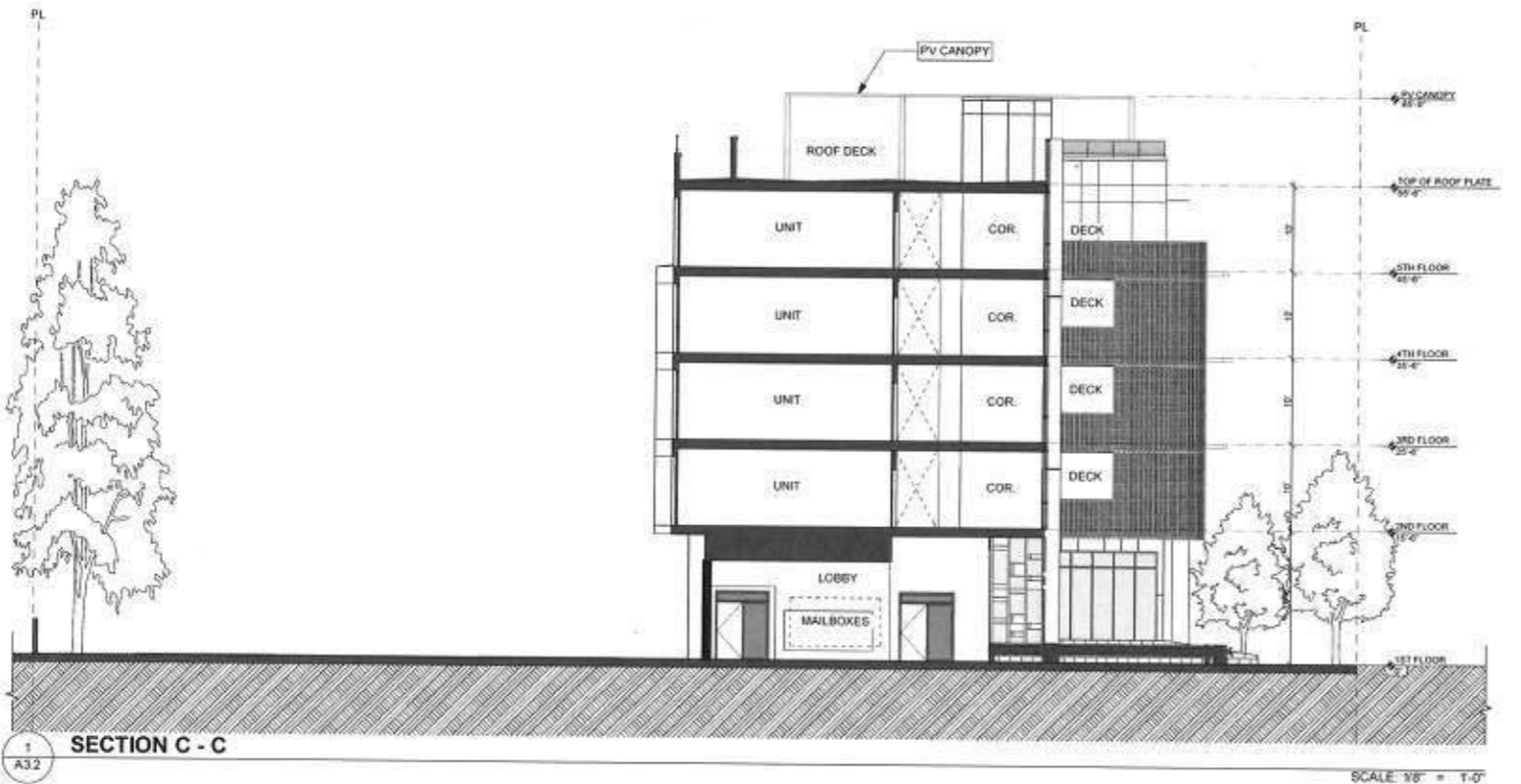


KEY MAP



2 SECTION B - B
A3.2

SCALE: 1/8" = 1'-0"



1 SECTION C - C
A3.2

SCALE: 1/8" = 1'-0"



KEY MAP



Project:

950 W EL CAMINO REAL

950 W EL CAMINO REAL
MOUNTAIN VIEW, CA 94040

Client:

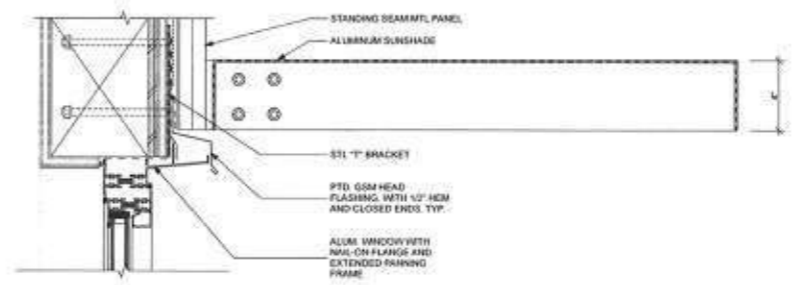
PALO ALTO HOUSING

725 Alma St
Palo Alto, CA 94301
(650) 321-9700

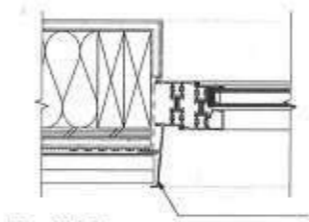
BUILDING SECTIONS

Job#: 1733
Date: 2/13/18
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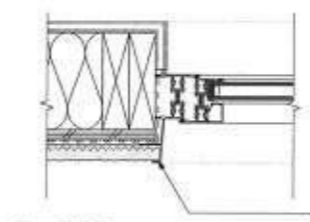
- CIVIL ENGINEER
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738 Alameda Drive
Menlo Park, CA 94025
650.724.3369
- STRUCTURAL ENGINEER
Murphy Barr Curry, Inc.
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- MEP ENGINEER
FARD Engineers
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Walnut Creek, CA 94598
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- LANDSCAPE ARCHITECT
Hill Associates
130 Caliente Drive
Aptos, CA 95003
408.761.3284



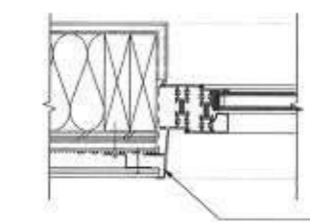
7 HORIZONTAL SUNSHADE AT WINDOW HEAD
 AS.0 3" = 1'-0"



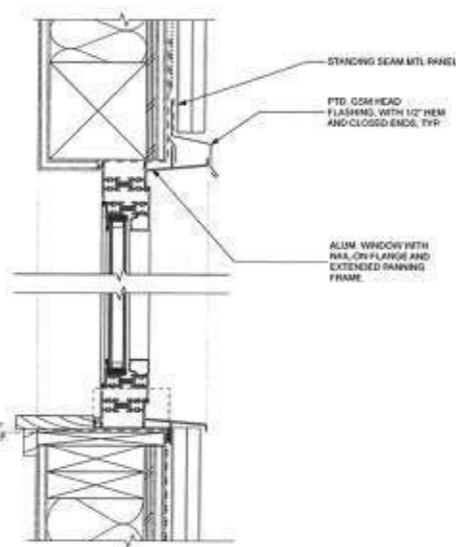
B. JAMB
 TUCK FINISH WITHIN ALUM WINDOW FRAMING FRAME



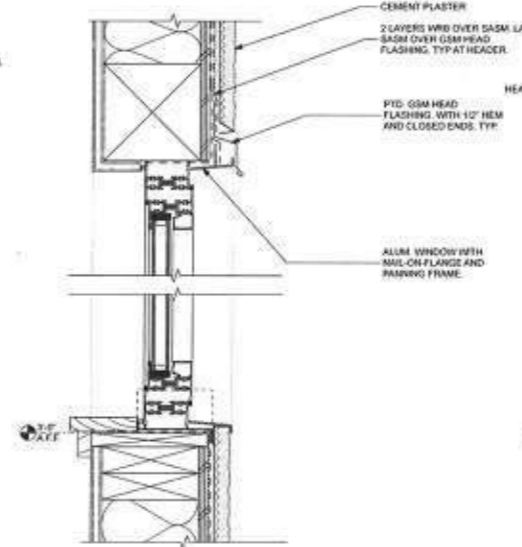
B. JAMB
 TUCK FINISH WITHIN ALUM WINDOW FRAMING FRAME



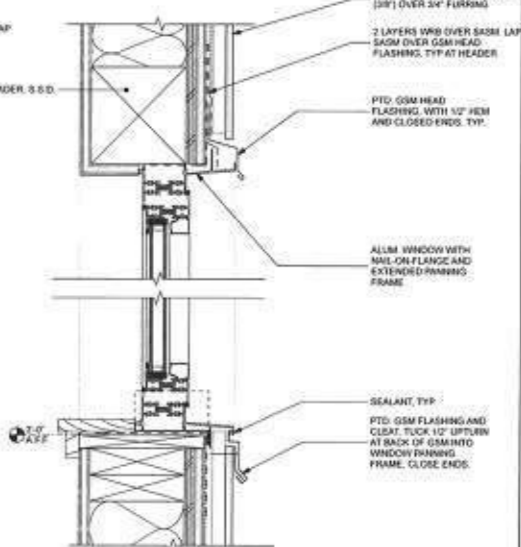
B. JAMB
 TUCK FINISH WITHIN ALUM WINDOW FRAMING FRAME
 PROVIDE SEALANT AT FINISH TO WINDOW FRAME JOINT



9 HEAD/SILL @ STANDING SEAM
 AS.0 3" = 1'-0"



8 HEAD/SILL @ CEMENT PLASTER
 AS.0 3" = 1'-0"



1 HEAD/SILL @ FIBER CEMENT PANEL
 AS.0 3" = 1'-0"



Project:
950 W EL CAMINO REAL
 950 W EL CAMINO REAL
 MOUNTAIN VIEW, CA 94040

Client:
PALO ALTO HOUSING
 725 Alma St
 Palo Alto, CA 94301
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SCHEMATIC DETAILS

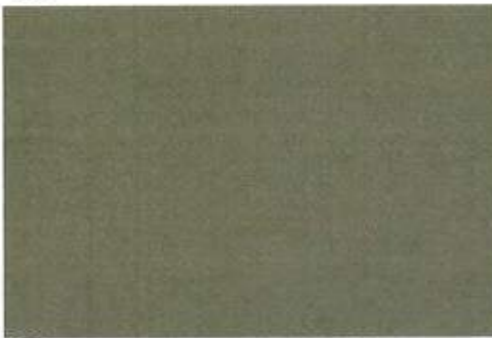
Job#: 1733
 Date: 2/13/18
 Scale: AS NOTED

A5.0

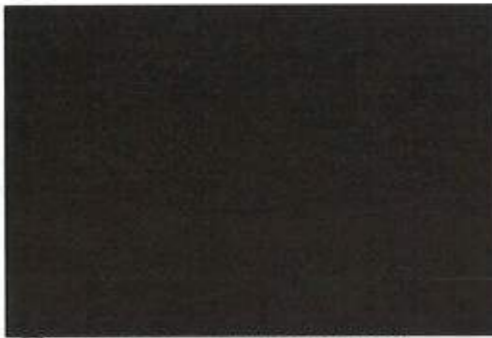
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14 A5.1 COLOR A - COBBLESTONE STREET



9 A5.1 COLOR B - WINTER'S PARK



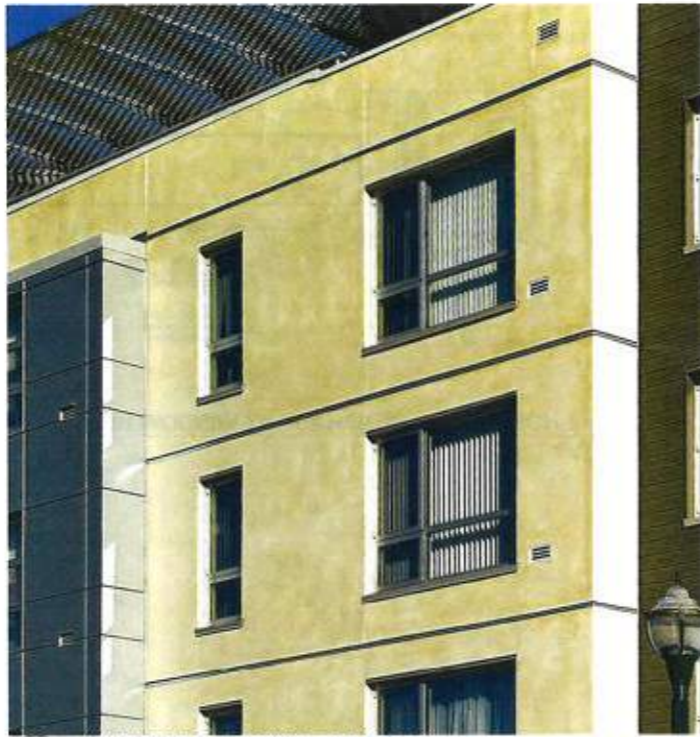
10 A5.1 COLOR C - THUNDERSTRUCK



11 A5.1 COLOR D - CHAMPAGNE



10 A5.1 PANELIZED MURAL



9 A5.1 EXTERIOR PLASTER - COLOR A



8 A5.1 FIBER CEMENT PANELS - COLORS A, B, AND C



7 A5.1 CMU PLANTERS



11 A5.1 STANDING SEAM SIDING - COLOR D



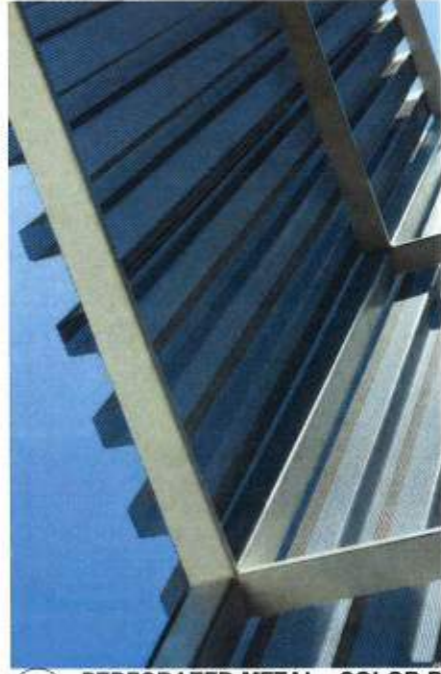
10 A5.1 SUNSHADES AND ACCENT METAL - COLOR C



4 A5.1 ALUMINUM STOREFRONT



3 A5.1 ALUMINUM CASEMENT WINDOWS



2 A5.1 PERFORATED METAL - COLOR D



1 A5.1 COLORED GLASS

VAN METER WILLIAMS POLLACK LLP

ARCHITECTS | INTERIORS | ENVIRONMENTAL DESIGN | PLANNING | HISTORIC PRESERVATION

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STRUCTURAL ENGINEER
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LANDSCAPE ARCHITECT
Hill Associates
100 California Drive
Agua, CA 95003
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Project:

950 W EL CAMINO REAL
REAL

950 W EL CAMINO REAL
MOUNTAIN VIEW, CA 94040

Client:

PALO ALTO
HOUSING

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Palo Alto, CA 94301
(650) 321-9709

COLORS AND MATERIALS

Job#: 1733

Date: 2/13/16

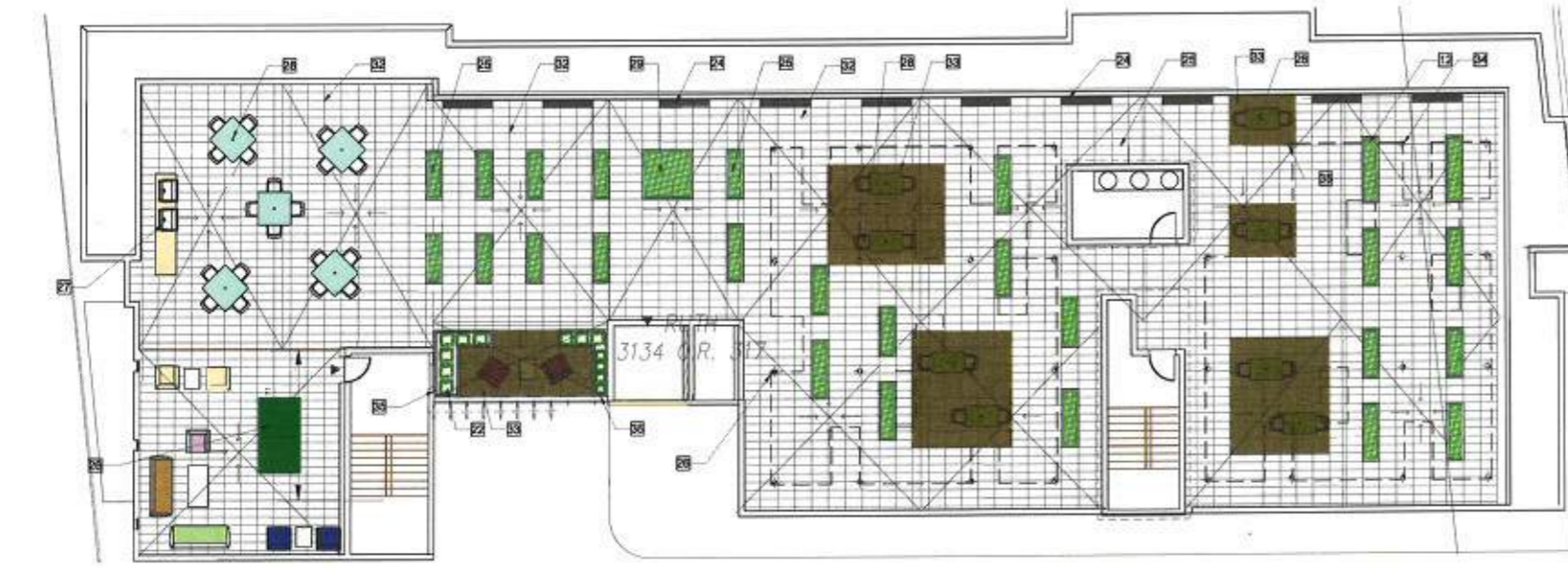
Scale: AS NOTED

A5.1

- CIVIL ENGINEER**
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1. CONCEPTUAL LANDSCAPE PLAN
 SCALE: 1" = 10'



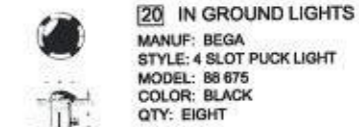
2. CONCEPTUAL ROOF GARDEN PLAN
 SCALE: 1/4" = 1'-0"

2. LEGEND

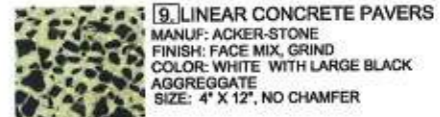
- 1 PERMEABLE PAVERS WITH A THREE YEAR AGED SOLAR REFLECTANCE INDEX OF .28
- 2 EXISTING TREE TO BE PRESERVED AND PROTECTED
- 3 PROPERTY LINE
- 4 SMALL SCALE FLOWERING ACCENT TREE
- 5 BIKE RACK FOR GUESTS - 8 SPACES
- 6 EXISTING TREE TO BE REMOVED - SEE TREE DISPOSITION PLAN
- 7 SHRUB AND GROUND COVER AREA
- 8 BIORETENTION PLANTER-S.A.D.
- 9 LINEAR CONCRETE PAVERS
- 10 NATURAL GRAY CONCRETE
- 11 LITTER RECEPT.
- 12 COLORED CONCRETE PAVING
- 13 BUILDING COLUMN
- 14 FLOWERING VINE ON FENCE
- 15 BARK MULCH LAYER UNDER EXISTING TREES
- 16 LARGE SCALE SHADE TREE
- 17 CITY STREET TREE
- 18 DECOMPOSED GRANITE PAVING
- 19 PUBLIC SIDEWALK
- 20 IN GROUND LIGHT
- 21 BACKFLOW/UTILITIES
- 22 EVERGREEN HEDGE
- 23 EVERGREEN SCREEN SHRUBS
- 24 BENCH WITH BACKREST
- 25 GARDEN PLANTER
- 26 PING PONG TABLE
- 27 BARBECUE
- 28 DINING TABLES AND CHAIRS
- 29 LARGE GARDEN PLANTER
- 30 POTS WITH BOLD FOLIAGE
- 31 SMOOTH GRANITE BOULDERS
- 32 PEDESTAL PAVERS
- 33 WOOD DECKING
- 34 PV CELL SUPPORT COLUMN
- 35 RAISED PLANTER



3. TREE TYPES



4. LANDSCAPE LIGHTING TYPE



5. PAVING TYPES - SITE

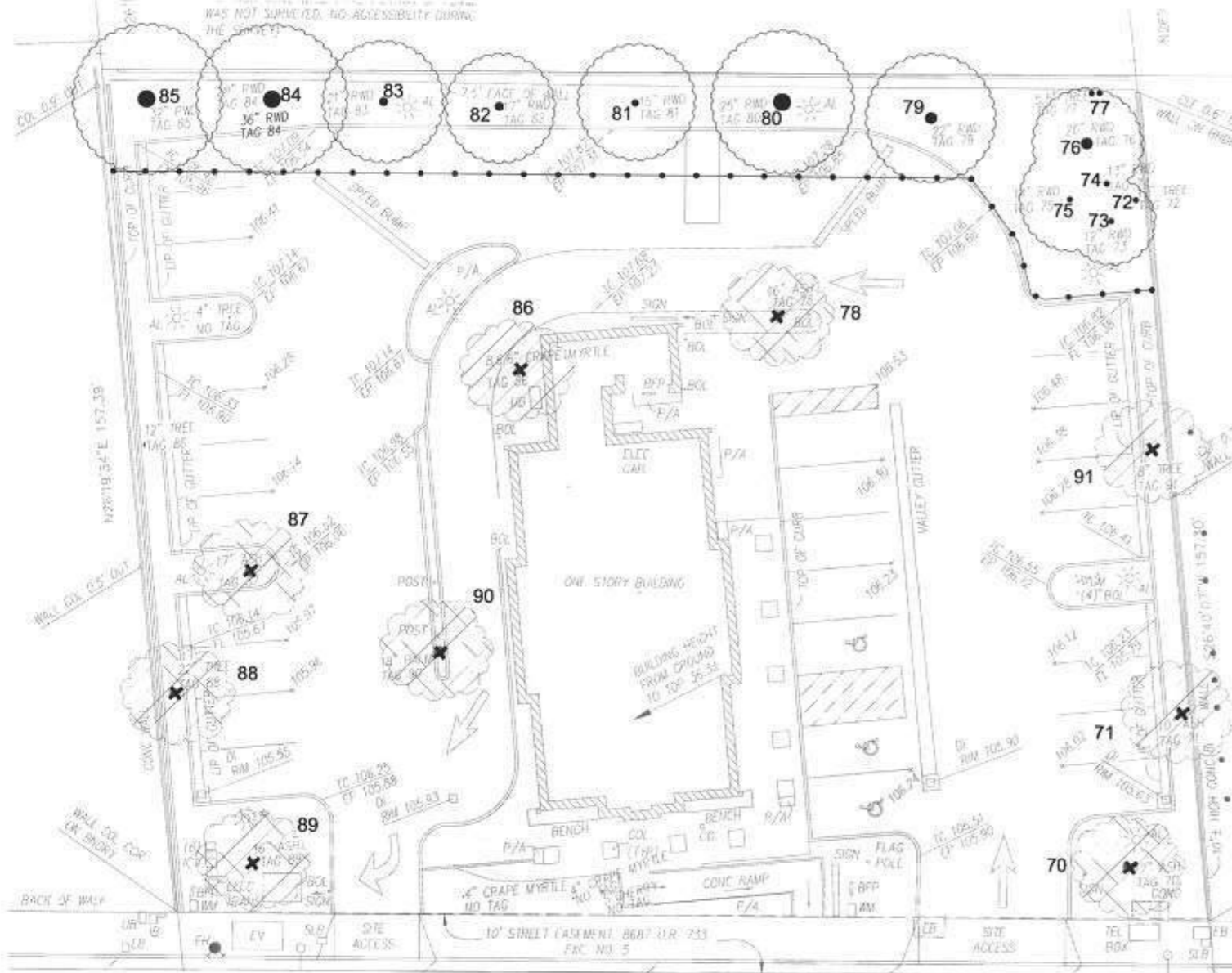


6. PAVING TYPES - ROOF



7. SITE FURNISHINGS

Project:
950 W EL CAMINO REAL
 950 W EL CAMINO REAL
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 Client:
PALO ALTO HOUSING
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CONCEPTUAL LANDSCAPE PLAN



1. TREE SURVEY PLAN

SCALE: 1" = 10'

TREE REMOVAL NOTES

1. THE LOCATION OF ALL SERVICE LINES SUCH AS WATER SUPPLY, SEWER, ELECTRICITY, TELEPHONES, CABLE, GAS, STORM DRAIN LINES, ETC. SHALL BE ASCERTAINED BEFORE TREE REMOVAL WORK IS STARTED. WHERE SUCH LINES WILL BE AFFECTED BY TREE REMOVAL, OR WHERE TREE REMOVAL MACHINERY WILL BE WORKING NEARBY, LINES SHOULD BE CAREFULLY SEALED OFF, PROTECTED OR DIVERTED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO TAKE NECESSARY PRECAUTIONARY ACTIONS.
2. REMOVE ONLY THOSE TREES INDICATED ON THIS PLAN TO BE REMOVED. TREE TRUNK DIAMETERS ARE NOTED ON PLAN. TREES INDICATED TO BE REMOVED SHALL HAVE THE ROOT SYSTEMS AND STUMP REMOVED.
3. EXCAVATIONS FROM REMOVAL OF TREE ROOT SYSTEMS SHALL BE CLEANED OF LOOSE SOIL AND ANY POTENTIALLY DELETERIOUS MATERIAL AND BACKFILLED WITH COMPACTED ENGINEERED FILL PER THE GEOTECH REPORT.
4. REFER TO SHEET L-3 FOR TREE PROTECTION FENCING NOTES, ARBORIST TREE PRESERVATION REQUIREMENTS AND TREE PROTECTION DETAILS.

SYMBOL LEGEND

- 70 (circle with X) NON HERITAGE TREE TO BE REMOVED
NUMBER CORRESPONDS TO ARBORIST TREE TAG
- 70 (circle with X and diagonal lines) HERITAGE TREE TO BE REMOVED
NUMBER CORRESPONDS TO ARBORIST TREE TAG
NAME HERITAGE TREES TO BE REMOVED
- 70 (circle) HERITAGE TREE TO BE PRESERVED
NUMBER CORRESPONDS TO ARBORIST TREE TAG

TREE REMOVAL SCHEDULE

TREE TAG NUMBER	BOTANICAL NAME	COMMON NAME	DIAMETER	PRESERVE/REMOVE	STATUS	SUITABILITY FOR PRESERVATION
70	FRAXINUS OXYRAYWOODII	RAYWOOD ASH	1'-8"	REMOVE	HERITAGE	LOW
71	FRAXINUS OXYRAYWOODII	RAYWOOD ASH	8'-0"	REMOVE	NONE	LOW
72	ACACIA MELANOCORYMBOS	BLACKWOOD ACACIA	1'-0"	PRESERVE	HERITAGE	LOW
73	SEQUOIA SEMPERVIRENS	COAST REDWOOD	7'-4"	PRESERVE	HERITAGE	HIGH
74	SEQUOIA SEMPERVIRENS	COAST REDWOOD	1'-1"	PRESERVE	HERITAGE	HIGH
75	SEQUOIA SEMPERVIRENS	COAST REDWOOD	1'-0"	PRESERVE	HERITAGE	HIGH
76	SEQUOIA SEMPERVIRENS	COAST REDWOOD	1'-0"	PRESERVE	HERITAGE	HIGH
77	FRAXINUS CAROLINIANA	CAROLINA LAUREL CHERRY	8'-0"	PRESERVE	NONE	LOW
78	FRAXINUS OXYRAYWOODII	RAYWOOD ASH	1'-4"	REMOVE	HERITAGE	LOW
79	SEQUOIA SEMPERVIRENS	COAST REDWOOD	1'-10"	PRESERVE	HERITAGE	HIGH
80	SEQUOIA SEMPERVIRENS	COAST REDWOOD	2'-1"	PRESERVE	HERITAGE	MODERATE
81	SEQUOIA SEMPERVIRENS	COAST REDWOOD	1'-3"	PRESERVE	HERITAGE	MODERATE
82	SEQUOIA SEMPERVIRENS	COAST REDWOOD	1'-4"	PRESERVE	HERITAGE	MODERATE
83	SEQUOIA SEMPERVIRENS	COAST REDWOOD	2'-4"	PRESERVE	HERITAGE	MODERATE
84	SEQUOIA SEMPERVIRENS	COAST REDWOOD	2'-4"	PRESERVE	HERITAGE	MODERATE
85	SEQUOIA SEMPERVIRENS	COAST REDWOOD	2'-4"	PRESERVE	HERITAGE	MODERATE
86	SEQUOIA SEMPERVIRENS	COAST REDWOOD	2'-4"	PRESERVE	HERITAGE	MODERATE
87	FRAXINUS OXYRAYWOODII	RAYWOOD ASH	1'-8"	REMOVE	HERITAGE	LOW
88	FRAXINUS OXYRAYWOODII	RAYWOOD ASH	1'-10"	REMOVE	HERITAGE	LOW
89	FRAXINUS OXYRAYWOODII	RAYWOOD ASH	1'-4"	REMOVE	HERITAGE	WITHIN BLDG
90	WASHINGTONIA ROBUSTA	MEXICAN FAN PALM	1'-4"	REMOVE	HERITAGE	WITHIN BLDG
91	FRAXINUS OXYRAYWOODII	RAYWOOD ASH	8"	REMOVE	NONE	LOW
92	FRAXINUS CAROLINIANA	CAROLINA LAUREL CHERRY	8'-8"	PRESERVE	OFF SITE	MODERATE
93	FRAXINUS CAROLINIANA	CAROLINA LAUREL CHERRY	8'-4"	PRESERVE	OFF SITE	MODERATE
94	FRAXINUS CAROLINIANA	CAROLINA LAUREL CHERRY	8'-4"	PRESERVE	OFF SITE	MODERATE
95	FRAXINUS CAROLINIANA	CAROLINA LAUREL CHERRY	8'-0"	PRESERVE	OFF SITE	MODERATE
96	FRAXINUS CAROLINIANA	CAROLINA LAUREL CHERRY	9'-0"	PRESERVE	OFF SITE	MODERATE
97	FRAXINUS CAROLINIANA	CAROLINA LAUREL CHERRY	9'-4"	PRESERVE	OFF SITE	MODERATE
98	FRAXINUS CAROLINIANA	CAROLINA LAUREL CHERRY	8'-4"	PRESERVE	OFF SITE	MODERATE
99	OLEA	OLIVE	8'-12"	PRESERVE	OFF SITE	MODERATE
100	FICUS	FIG	8'-0"	PRESERVE	OFF SITE	LOW
TOTAL TREES REMOVED: 9						
TOTAL HERITAGE TREES REMOVED: 6						

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Project:
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950 W EL CAMINO REAL
MOUNTAIN VIEW, CA 94040

Client:
PALO ALTO HOUSING

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TREE DISPOSITION PLAN

Job#: 1733
Scale: AS NOTED

The goal of tree preservation is not merely tree survival during development but maintenance of tree health and beauty for many years. Trees retained on sites that are either subject to extensive injury during construction or are inadequately maintained become a liability rather than an asset. The response of individual trees will depend on the amount of excavation and grading, the care with which demolition is undertaken, and the construction methods. Coordinating any construction activity inside the TREE PROTECTION ZONE can minimize these impacts.

The following recommendations will help reduce impacts to trees from development and maintain and improve their health and vitality through the clearing, grading and construction phases.

Design recommendations

- All plans affecting trees shall be reviewed by the Consulting Arborist with regard to tree impacts. These include, but are not limited to, demolition plans, grading and utility plans, landscape and irrigation plans.
- A TREE PROTECTION ZONE must be established for trees to be preserved, in which no disturbance is permitted. TREE PROTECTION ZONES shall be identified for trees to be preserved by the Consulting Arborist once project plans have been finalized. No grading, excavation, construction or storage of materials shall occur within that zone.
 - For design purposes, the TREE PROTECTION ZONES for coast redwoods shall be the existing planter area for trees #73-76; and the TPZ for #79-85 shall be a rectangle that extends the length of the property line and whose width encloses the drip lines.
- Underground services including utilities, sub-drains, water or sewer shall be routed around the TREE PROTECTION ZONE. Where encroachment cannot be avoided, special construction techniques such as hand digging or tunneling under roots shall be employed where necessary to minimize root injury.
- No underground services including utilities, sub-drains, water or sewer shall be placed in the TREE PROTECTION ZONE.
- Tree Preservation Notes, prepared by the Consulting Arborist, should be included on all plans.
- Do not lime within 25' of any tree. Lime is toxic to tree roots.
- Any herbicides placed under paving materials must be safe for use around trees and labeled for that use.
- Irrigation systems must be designed so that no trenching will occur not within the TREE PROTECTION ZONE.

Pre-construction treatments and recommendations

- The construction superintendent shall meet with the Consulting Arborist before beginning work to discuss work procedures and tree protection.
- Fence all trees to be retained to completely enclose the TREE PROTECTION ZONE prior to demolition, grubbing or grading. Fences shall be 6 ft. chain link or equivalent as approved by Consulting Arborist. Fences are to remain until all grading and construction is completed.
- Pruning trees to provide construction and access clearance may be required. Off-site trees will likely require some amount of pruning to provide a construction clearance.
- Prune trees to be preserved to clean the crown and to provide clearance. All pruning shall be done by a State of California Licensed Tree Contractor (C81/D48). All pruning shall be done by Certified Arborist or Certified Tree Worker in accordance with the Best Management Practices for Pruning (International Society of Arboriculture, 2002) and adhere to the most recent editions of the American National Standard for Tree Care Operations (Z133.1) and Pruning (A300).
- All tree work shall comply with the Migratory Bird Treaty Act as well as California Fish and Wildlife code 3503-3513 to not disturb nesting birds. To the extent feasible tree pruning and removal should be scheduled outside of the breeding season. Breeding bird surveys should be conducted prior to tree work. Qualified biologists should be involved in establishing work buffers for active nests.

Recommendations for tree protection during construction

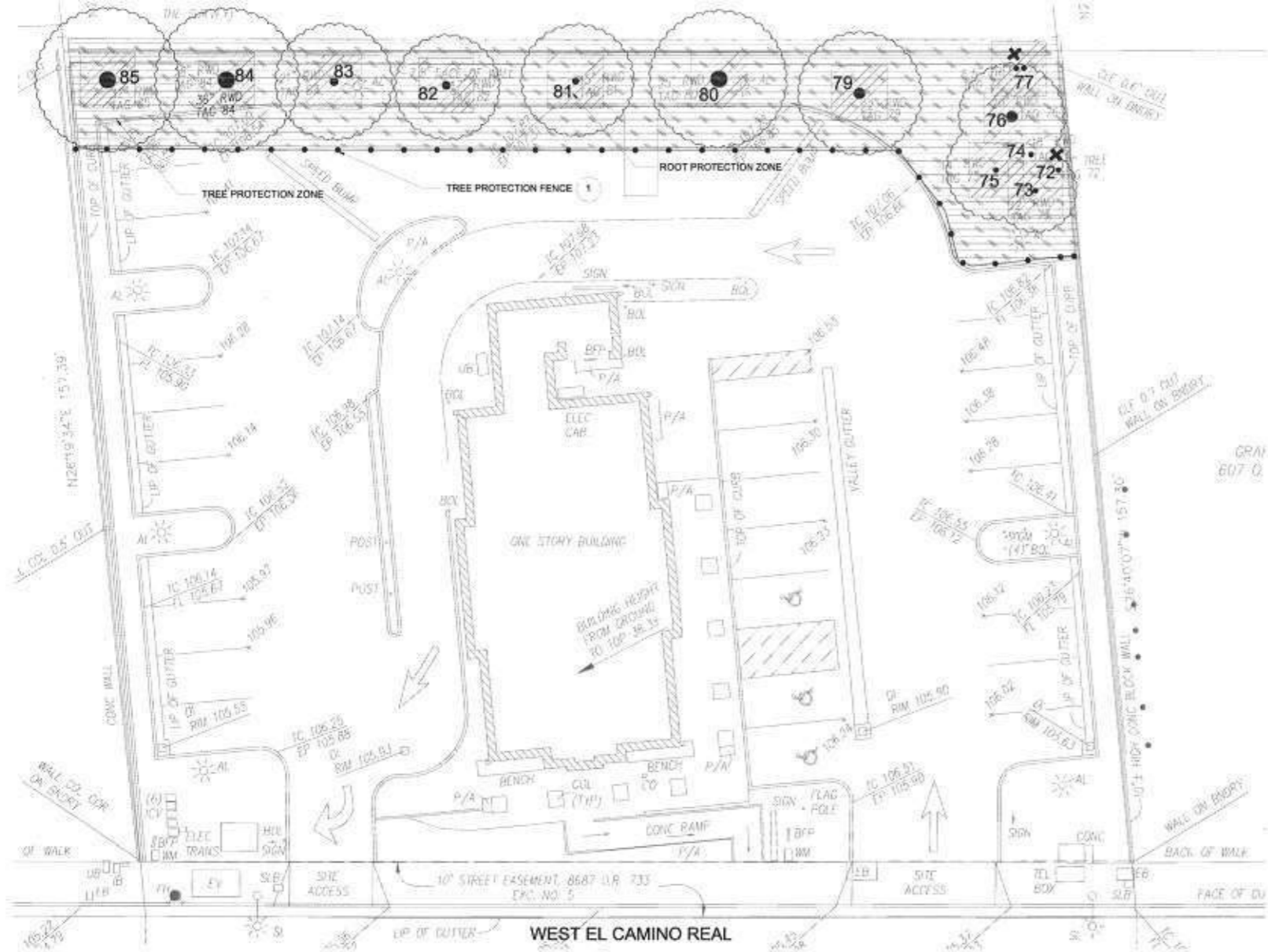
- Prior to beginning work, the contractors working in the vicinity of trees to be preserved are required to meet with the Consulting Arborist at the site to review all work procedures access routes, storage areas and tree protection measures.
- All contractors shall conduct operations in a manner that will prevent damage to trees to be preserved.
- No grading, construction, demolition or other work shall occur within the TREE PROTECTION ZONE. Any modifications must be approved and monitored by the Consulting Arborist.
- Fences have been erected to protect trees to be preserved. Fences define a specific TREE PROTECTION ZONE for each tree or group of trees. Fences are to remain until all site work has been completed. Fences may not be relocated or removed without permission of the Consultant.
- Construction trailers, traffic and storage areas must remain outside fenced areas at all times.
- Prior to grading, pad preparation, excavation for foundations/footings/walls, trenching, trees may require root pruning outside the TREE PROTECTION ZONE. Any root pruning required for construction purposes shall receive the prior approval of, and be supervised by, the Consulting Arborist.
- If injury should occur to any tree during construction, it should be evaluated as soon as possible by the Consulting Arborist so that appropriate treatments can be applied.
- No excess soil, chemicals, debris, equipment or other materials shall be dumped or stored within the TREE PROTECTION ZONE.
- Any additional tree pruning needed for clearance during construction must be performed by a Certified Arborist and not by construction personnel.

Maintenance of impacted trees

Preserved trees will experience a physical environment different from that pre-development. As a result, tree health and structural stability should be monitored. Occasional pruning, fertilization, mulch, pest management, replanting and irrigation may be required. In addition, provisions for monitoring both tree health and structural stability following construction must be made a priority. As trees age, the likelihood of failure of branches or entire trees increases; therefore, annual inspection for hazard potential is recommended.



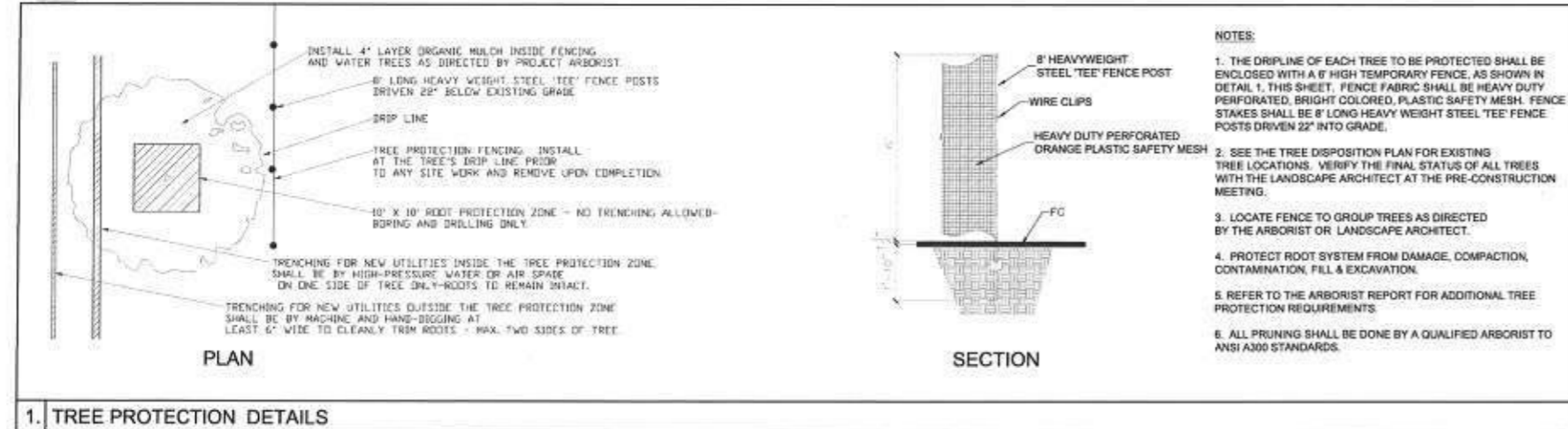
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1. TREE PROTECTION PLAN
SCALE: 1" = 10'

SYMBOL LEGEND

- 70 ● TREE TO BE PRESERVED AND PROTECTED NUMBER CORRESPONDS ARBORIST TREE TAG
- ▨ TREE PROTECTION ZONE REFER TO ARBORIST REPORT, THIS SHEET.
- TREE PROTECTION FENCE (1)
- ▨ TREE ROOT PROTECTION ZONE - SEE DETAIL 1, THIS SHEET



1. TREE PROTECTION DETAILS

Project:
950 W EL CAMINO REAL

950 W EL CAMINO REAL
MOUNTAIN VIEW, CA 94040

Client:
PALO ALTO HOUSING

725 Alma St
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TREE PROTECTION PLAN

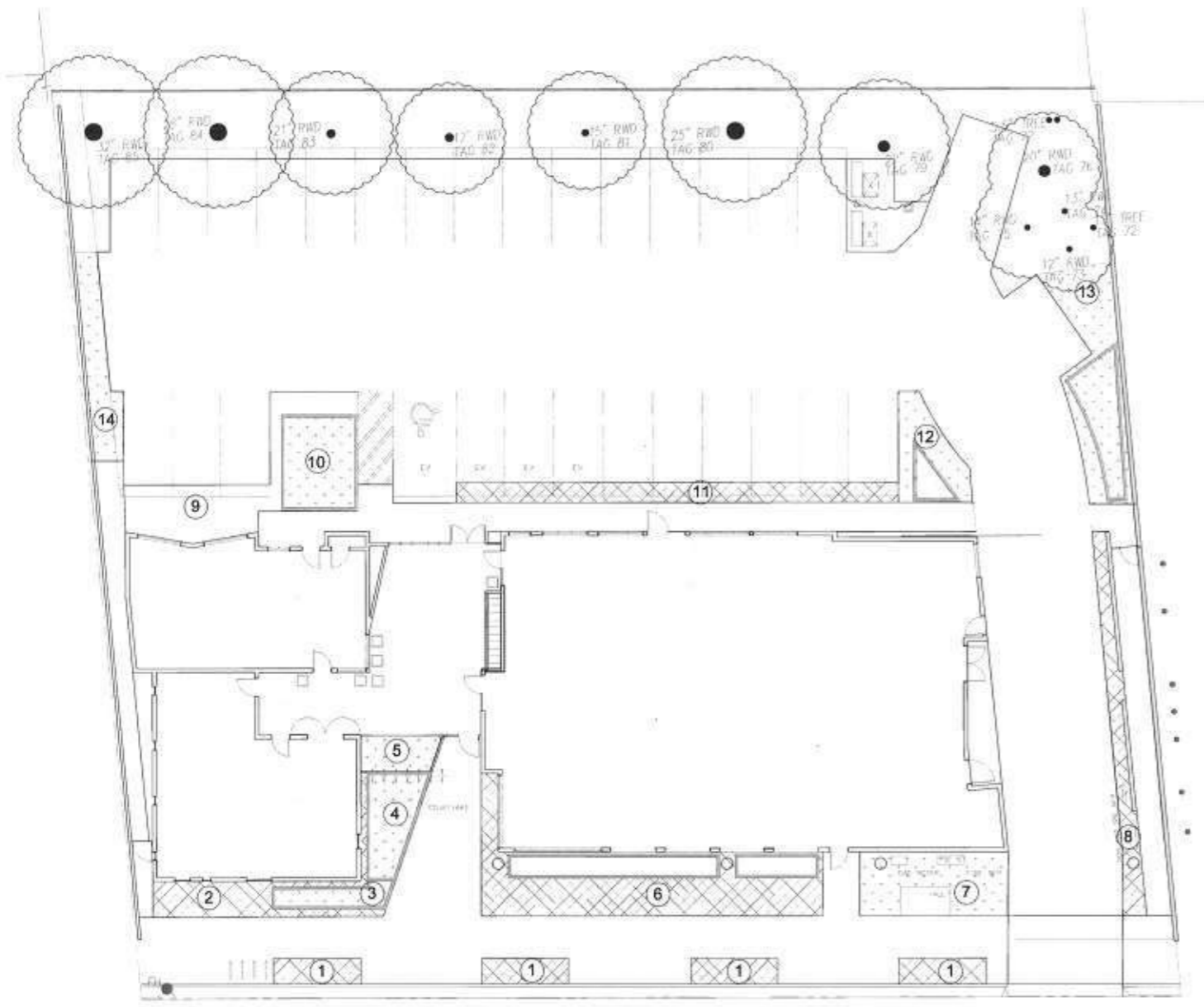
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Scale: AS NOTED
L-3

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1. IRRIGATION ZONE PLAN

LEGEND

- LOW WATER USE PLANTED AREA - SUB SURFACE DRIP AND BUBBLERS
- MODERATE WATER USE PLANTED AREA - SUB SURFACE DRIP AND BUBBLERS
- EXISTING TREE TO BE PRESERVED

SUMMARY OF HYDROZONE AREA INFORMATION

SUM OF LOW WATER USE AREAS	1,378
SUM OF MODERATE WATER USE AREAS	1,795
SUM OF ALL LANDSCAPE AREAS	3,129

TABLE A-2 INPUT VALUES FOR THE MAWA CALCULATION

ET ₀	CONVERSION FACTOR	LANDSCAPE AREA	SPECIAL LANDSCAPE AREA	ETAF	MAXIMUM APPLIED WATER ALLOWANCE
4.9	62	3129	0	0.45	275.39

TABLE A-1 HYDROZONE AREA INFORMATION

HYDROZONE	PLANT WATER USE TYPE	HYDROZONE AREA
1	MODERATE	268
2	MODERATE	182
3	LOW	60
4	LOW	129
5	LOW	81
6	MODERATE	462
7	LOW	231
8	MODERATE	182
9	MODERATE	393
10	LOW	187
11	MODERATE	264
12	LOW	171
13	LOW	360
14	LOW	160
TOTAL S		3129

TABLE B-1 PLANT FACTOR AND IRRIGATION INFORMATION

HYDROZONE	PLANT WATER USE TYPE	IRRIGATION TYPE	PLANT FACTOR	HYDROZONE AREA	PF X HA	IRRIGATION EFFICIENCY	PF X HA / IE	ESTIMATED TOTAL WATER USE OF XHA / IE X 26.66
1	MODERATE	TREE BUBBLERS	0.5	268	134	0.85	155.4	448.4
2	MODERATE	SUB SURFACE DRIP	0.5	182	91	0.85	107.2	285.1
3	LOW	SUB SURFACE DRIP	0.3	60	18	0.85	21.2	56.4
4	LOW	SUB SURFACE DRIP	0.3	129	38.7	0.85	45.5	122.4
5	LOW	SUB SURFACE DRIP	0.3	81	24.3	0.85	28.6	74.7
6	MODERATE	SUB SURFACE DRIP	0.5	462	231	0.85	271.8	703
7	LOW	SUB SURFACE DRIP	0.3	231	69.3	0.85	81.5	214.9
8	MODERATE	SUB SURFACE DRIP	0.5	182	91	0.85	107.2	285.1
9	MODERATE	SUB SURFACE DRIP	0.5	393	196.5	0.85	231.2	607.5
10	LOW	SUB SURFACE DRIP	0.3	187	56.1	0.85	66.0	174.3
11	MODERATE	SUB SURFACE DRIP	0.5	264	132	0.85	155.4	414.6
12	LOW	SUB SURFACE DRIP	0.3	171	51.3	0.85	60.3	158.5
13	LOW	SUB SURFACE DRIP	0.3	360	108	0.85	127.1	335.7
14	LOW	SUB SURFACE DRIP	0.3	160	48	0.85	56.9	147.9
TOTAL S				3,129			1,954.6	5,046

2. IRRIGATION WATER USE CALCULATIONS

NOTE: REFER TO PLANT LIST, SHEET L-5 FOR PLANT MATERIALS WUCOLS RATINGS ETWU DOES NOT EXCEED MAXIMUM ALLOWED

Project:

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950 W EL CAMINO REAL MOUNTAIN VIEW, CA 94040

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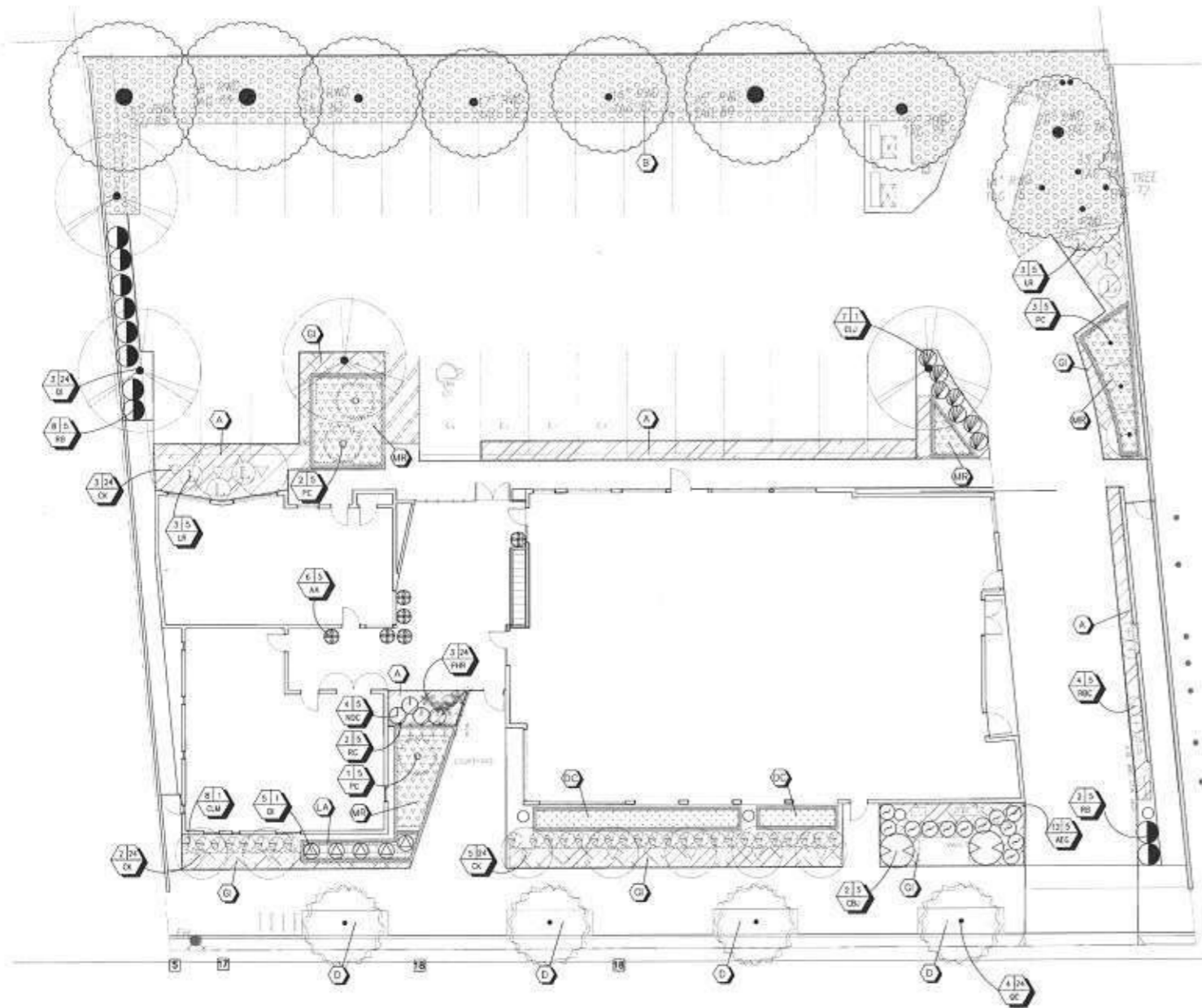
IRRIGATION WATER USE CALCULATIONS

Job#: 1733

Scale: AS NOTED

L-4

10/10/2018



1. LANDSCAPE PLANTING PLAN
SCALE: 1" = 10'

PLANT PALETTE

TREES	SYMBOL	KEY	BOTANIC NAME	COMMON NAME	SIZE	HEIGHT AND SPREAD WHEN PLANTED	NOTES/SPACING	QUANTITY	WUCOLS WATER USE
	OK		CORNUS ROSEA	REDUSA DOGWOOD	24" DBH	8'-10' X 4'-0"	DOUBLE STAGE	10	MOD
	OC		QUERCUS COONINA	SCARLET OAK	24" DBH	8'-10' X 4'-0"	DOUBLE STAGE	4	LOW
	OD		QUERCUS LAE	HOLLY OAK	24" DBH	10'-12' X 4'-0"	DOUBLE STAGE	4	LOW

SHRUBS AND VINES	SYMBOL	KEY	BOTANIC NAME	COMMON NAME	SIZE	HEIGHT AND SPREAD WHEN PLANTED	NOTES/SPACING	QUANTITY	WUCOLS WATER USE
	AE		AMELIA REGINA	FLORIDA YEW	5 GAL	18" X 18"		12	MOD
	CLJ		CALLISTEMO CHRYSAEUM	DAWNY BOTTLEBRUSH	5 GAL	18" X 18"		7	LOW
	CEJ		CELANOTHUS BLUE JEAN	CELANOTHUS VAR. BLUE JEAN	5 GAL	17" X 17"		1	LOW
	CMJ		CESTRUM COCAEACENSIS	N.C.C.	1 GAL	12" X 12"		30	LOW
	EX		EXCOECAGIA	N.C.C.	1 GAL	12" X 12"		8	LOW
	LCR		LEUCOPHYLLON	CHINESE FRAGRANT FLOWER	5 GAL	12" X 12"		6	LOW
	NDG		NEOLYDIA	HEAVY BARKWOOD	5 GAL	12" X 12"		4	LOW
	PKR		PHYLLISIA	PINK WINTER CURRENT	24" BOX	36" X 36"		3	LOW
	RR		ROSA	ROSA	12" X 12"			18	LOW
	RSC		RUBUS	RUBUS	5 GAL	12" X 12"		4	LOW
	RC		ROSA	ROSA	5 GAL	MIN. 20" 18" SPACING PER PLANT		2	LOW

PERENNIALS AND SUCCULENTS	SYMBOL	KEY	BOTANIC NAME	COMMON NAME	SIZE	HEIGHT AND SPREAD WHEN PLANTED	NOTES/SPACING	QUANTITY	WUCOLS WATER USE
	AA		AGAVE ATTENUATA	FORTAL AGAVE	15 GAL	24" X 24"		8	LOW

GROUND COVER	SYMBOL	KEY	BOTANIC NAME	COMMON NAME	SIZE	HEIGHT AND SPREAD WHEN PLANTED	NOTES/SPACING	QUANTITY	WUCOLS WATER USE
	K		ASARUM CALIFORNIA	CALIFORNIA GINGER	1 GAL	12" X 12"	24" OC TRIANGULAR	823 S.F.	MOD
	DI		DIANTHUS	CARNEY DIANTHUS	3" POTS	8" X 8"	1" OC TRIANGULAR	784 S.F.	LOW
	IM		IMPATIENS	IMPATIENS	1 GAL	12" X 12"	24" OC TRIANGULAR	38 S.F.	LOW
	B			4" LAYER OF BARK MULCH BENEATH TREES TO BE PRESERVED				2880 S.F.	
	D			3" LAYER OF DECOMPOSED GRANITE				24 S.F.	

BIORETENTION AREA PLANTS	SYMBOL	KEY	BOTANIC NAME	COMMON NAME	SIZE	HEIGHT AND SPREAD WHEN PLANTED	NOTES/SPACING	QUANTITY	WUCOLS WATER USE
	MA		MARANTA	ORANGE MARANTA	1 GAL	12" X 12"	24" OC TRIANGULAR	488 S.F.	LOW
	FC		PHYSCOPHUS	WHEATGRASS	5 GAL	12" X 12"		3	LOW

GRASSES	SYMBOL	KEY	BOTANIC NAME	COMMON NAME	SIZE	HEIGHT AND SPREAD WHEN PLANTED	NOTES/SPACING	QUANTITY	WUCOLS WATER USE
	DC		DESCHAMPSIA	TURFED WHEATGRASS	1 GAL	12" X 12"	24" OC TRIANGULAR	128 S.F.	LOW

INDICATES EXTENT OF STRUCTURAL SOIL AT NEW STREET TREES - SEE DETAIL X SHEET 1-B

PLANTING NOTES

- REFER TO SPECIFICATIONS FOR MATERIAL AND WORKMANSHIP REQUIREMENTS, SOIL AMENDMENTS, INSPECTION SCHEDULES AND GENERAL CONDITIONS.
- THE LANDSCAPE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AT THE SITE PRIOR TO THE START OF ANY WORK. REPORT ANY DISCREPANCIES TO THE LANDSCAPE ARCHITECT IMMEDIATELY.
- ALL PLANTED AREAS WILL BE WATERED WITH A FULLY AUTOMATIC DRIP IRRIGATION SYSTEM.
- THE FINAL LOCATION OF ALL TREES AND SHRUBS SHALL BE ADJUSTED IN THE FIELD BY THE LANDSCAPE ARCHITECT TO ACCOMMODATE EXISTING SITE CONDITIONS. CONTACT THE LANDSCAPE ARCHITECT 48 HOURS PRIOR TO PLANT LAYOUT FOR APPROVAL.
- ALL PLANTED AREAS, EXCEPT BIORETENTION AREAS SHALL RECEIVE A 4" LAYER FIR OR REDWOOD BARK CHIPS APPLIED AFTER THE COMPLETION OF PLANTING OPERATIONS. "PRD-CHIP" WITH COLORANT OR APPROVED EQUIVALENT. SUBMIT SAMPLE TO LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO PLACING BARK MULCH. REJECTED MATERIAL WILL BE REMOVED FROM THE SITE AT THE EXPENSE OF THE CONTRACTOR. BIORETENTION AREAS SHALL RECEIVE A 3" LAYER OF COMPOSTED, NON-FLOATABLE ORGANIC MULCH ONLY (NO BARK MULCH) IN AREAS BETWEEN PLANTINGS AND SIDE SLOPES.
- ALL SHRUBS SHALL BE PLANTED 1" ABOVE FINISH GRADE TO ALLOW FOR SETTLEMENT.
- ALL LANDSCAPING, IRRIGATION AND MAINTENANCE OF SAME SHALL CONFORM TO THE CITY OF MOUNTAIN VIEW LANDSCAPE GUIDELINES.



- CIVIL ENGINEER**
Luk and Associates
738 Alfred Nobel Drive
Menlo Park, CA 94027
650-724-3388
- STRUCTURAL ENGINEER**
Murphy Burr Cury, Inc.
85 Serrano Street, Suite 911
San Francisco, CA 94105
415-489-0222
- MEP ENGINEER**
FARD Engineers
305 Linnwood Ln. # 202
Walnut Creek, CA 94598
925-832-5555
- LANDSCAPE ARCHITECT**
Hill Associates
190 Oxnard Drive
Agree, CA 95003
408-781-3181



Project:
950 W EL CAMINO REAL
950 W EL CAMINO REAL
MOUNTAIN VIEW, CA 94040
Client:
PALO ALTO HOUSING
725 Alma St
Palo Alto, CA 94301
(650) 321-9709
LANDSCAPE PLANTING PLAN

REFERENCED TITLE INSURANCE POLICY

TITLE COMPANY: OLD REPUBLIC TITLE COMPANY
 275 BATTERY STREET, SUITE 1550
 SAN FRANCISCO, CA 94111

REPORT NO.: 0227019838-MH

REPORT DATE: AUGUST 16, 2017

ESCROW OFFICER: MARTHA MAKAGARA

TITLE VESTED IN: RAKESH KUMAR AND PREMLA KUMAR, TRUSTEES
 OF RAKESH KUMAR AND PREMLA KUMAR
 REVOCABLE FAMILY TRUST U/D/T DATED
 FEBRUARY 15, 2012

NATURE OF TITLE: FEE

MAP NOTES

PROPERTY ADDRESS: 950 WEST EL CAMINO REAL, MOUNTAIN VIEW,
 CA 94040

ASSESSOR'S PARCEL NO.: 158-07-019

FLOOD ZONE DESIGNATION: ZONE X
 AREAS DETERMINED TO BE OUTSIDE THE 0.2%
 ANNUAL CHANCE FLOODPLAIN FOR INSURANCE
 RATE MAP (FRM), NO. 060800000H, COMMUNITY
 NO. 060347 (CITY OF MOUNTAIN VIEW), PANEL
 SUFFIX H, EFFECTIVE DATE MAY 16, 2009 FROM
 FEDERAL EMERGENCY MANAGEMENT AGENCY
 (FEMA)

LAND AREA: 0.648 ACRES

LAND USE: COMMERCIAL

ZONING: MS - INDUSTRIAL AND SERVICE

PARKING COUNT: STANDARD: 24 SPACES
 DISABLED: 3 SPACES
 TOTAL: 27 SPACES

SURVEY NOTES

EXTERIOR DIMENSIONS OF THE BUILDING WAS TAKEN ALONG THE EXTERIOR
 FOOTPRINT OF BUILDING ENVELOPE AT GROUND LEVEL.

BUILDING SQUARE FOOTAGE WAS CALCULATED BASED ON THE EXTERIOR
 FOOTPRINT OF BUILDING ENVELOPE AT GROUND LEVEL.

THERE ARE NO OBSERVED EVIDENCE OF CURRENT EARTH MOVING WORK, BUILDING
 CONSTRUCTION OR BUILDING ADDITIONS ON THE DAY OF FIELD SURVEY.

THERE ARE NO PROPOSED CHANGES IN STREET RIGHT OF WAY LINES AFFECTING
 THE PROPERTY.

THERE IS NO OBSERVED EVIDENCE OF RECENT STREET OR SIDEWALK
 CONSTRUCTION OR REPAIRS AFFECTING THE PROPERTY ON THE DAY OF FIELD
 SURVEY.

THERE WAS NO OBSERVED EVIDENCE OF WETLAND DELINEATION MARKERS ON SITE.

PROPERTY DESCRIPTION

THE LAND REFERRED TO IN THIS REPORT IS SITUATED IN THE COUNTY OF SANTA
 CLARA, CITY OF MOUNTAIN VIEW, STATE OF CALIFORNIA, AND IS DESCRIBED AS
 FOLLOWS:

BEGINNING AT A POINT ON THE NORTHEASTERLY LINE OF STATE HIGHWAY SAN
 FRANCISCO AND SAN JOSE ROAD AS IT NOW EXISTS AND WHERE SAID
 NORTHEASTERLY LINE IS INTERSECTED BY THE WESTERLY LINE OF THE PARCEL OF
 LAND CONVEYED BY DOROTHY GRAHAM, ALSO KNOWN AS DOROTHY B. GRAHAM TO
 EMANUEL JUDE BY DEED DATED MARCH 17, 1932 AND RECORDED MARCH 18, 1932
 IN BOOK 807 OF OFFICIAL RECORDS, PAGE 161, SAID POINT ALSO BEING DISTANT
 NORTH-WESTERLY ALONG SAID LINE NORTH 88° 32' WEST 475 FEET FROM THE
 ORIGINAL WESTERLY LINE OF CASTRO STREET; THENCE NORTHEASTERLY AND ALONG
 THE WESTERLY LINE OF LAND CONVEYED TO SAID EMANUEL JUDE AND ALONG THE
 WESTERLY LINE OF LAND CONVEYED BY DOROTHY B. GRAHAM, A WIDOW TO JOHN
 JUDE, DEED RECORDED DECEMBER 17, 1931 IN BOOK 501 OF OFFICIAL RECORDS,
 PAGE 301, NORTH 29° 00' EAST 107.30 FEET TO A POINT THAT IS DISTANT
 THEREON SOUTH 29° 43' 30" WEST 2.70 FEET FROM THE SOUTHEASTERLY CORNER
 OF LAND CONVEYED BY VALLEY TITLE COMPANY OF SANTA CLARA COUNTY, TO A
 CORPORATION TO HOWARD RUTH, JR., ET UX, BY DEED RECORDED APRIL 5, 1955 IN
 BOOK 3154 OF OFFICIAL RECORDS, PAGE 313; THENCE PARALLEL WITH THE
 SOUTHWESTERLY LINE OF SAID RUTH PARCEL OF LAND NORTH 58° 23' WEST TO A
 POINT ON THE SOUTHWESTERLY PROLONGATION OF THE NORTHEASTERLY LINE OF
 SAID RUTH PARCEL OF LAND; THENCE ALONG SAID SOUTHWESTERLY PROLONGATION
 SOUTH 281° 04' WEST 157.5 FEET MORE OR LESS TO A POINT ON THE
 NORTHEASTERLY LINE OF SAID SAN FRANCISCO AND SAN JOSE ROAD; THENCE
 ALONG SAID LAST NAMED LINE SOUTH 58° 23' EAST 180.96 FEET, MORE OR LESS
 TO THE POINT OF BEGINNING AND BEING A PORTION OF THE RANCHO PASTORA DE
 LAS BORREGAS.

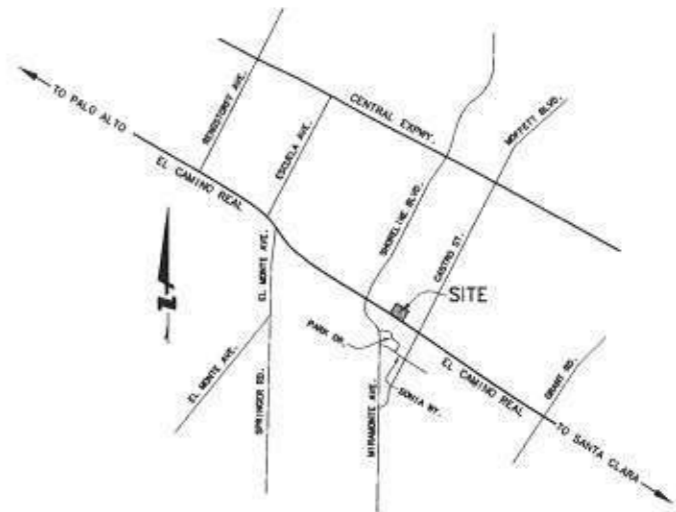
EXCEPTIONS TO COVERAGE

- Taxes and assessments, general and special, for the fiscal year 2017-2018,
 a fee, but not yet due or payable.
NOT A SURVEY ITEM.
- Taxes and assessments, general and special, for the fiscal year 2016-2017,
 as follows:
 Assessor's Parcel No. : 158-07-019
 Bill No. : 158-07-019-00
 Code No. : 005-000
 1st installment : \$9,557.22 Marked Paid
 2nd installment : \$9,557.22 Marked Paid
 Land Value : \$1,414,172.00
 Imp. Value : \$163,170.00
NOT A SURVEY ITEM.
- The list of supplemental taxes, if any, imposed pursuant to the provisions of
 Section 75, et seq., of the Revenue and Taxation Code of the State of
 California.
NOT A SURVEY ITEM.
- Rights of the public, County and/or City, in and to that portion of said land
 lying within the lines of El Camino Real.
**SOUTHWESTERLY PORTION OF PROPERTY HAS A 10 FOOT WIDE CITY OF
 MOUNTAIN VIEW EASEMENT FOR STREET PURPOSES, AS SHOWN ON SURVEY.**
- An easement affecting that portion of said land and for the purposes stated
 herein and incidental purposes as provided in the following:
 Instrument : Street Easement
 Granted To : City of Mountain View
 For : Use as a Street and for the purpose of laying,
 installing, maintaining, repairing, protecting and
 replacing sanitary sewers, water mains, storm
 drains, gas mains, poles, overhead and
 underground electrical and telephone wires,
 structures and other municipal uses.
 Dated : September 24, 1969
 Recorded : September 30, 1969 in Book 887 of Official
 Records, Page 735 under Recorder's Serial
 Number 3693273
 Affects : Front 10 feet
PLOTTED, AS SHOWN ON SURVEY.
- Matters as contained or referred to in an instrument.
 Enclosed : Agreement
 Executed By : City of Mountain View and Verne D. Freeman
 Dated : February 24, 1970
 Recorded : February 26, 1970 in Book 8836 of Official
 Records, Page 480 under Recorder's Serial
 Number 3765721
 Which Among : Terms and Conditions as contained therein
 Other Things :
 Provided :
 Returned to : P.O. Box 10, Mountain View, CA 94042
 Address : Reference is hereby made to said document for full particulars.
NOT A SURVEY ITEM.
- An unrecorded lease upon the terms, covenants, and conditions contained or
 referred to therein.
 Lessor : United Express Logistics, LLC, an Oregon limited
 liability company.
 Lessee : United Express Foods, Inc., an Oregon corporation
 Disclosed by : Memorandum of Lease
 Dated : November 18, 1999
 Recorded : November 24, 1999 in Official Records under
 Recorder's Serial Number 1506892
 Return to Address : 3636 North Central Avenue, Suite 250, Phoenix,
 AZ 85012
 NOTE: The present ownership of said leasehold or leaseholds and other matters
 affecting the interest of the lessee or lessors are not shown herein.
NOT A SURVEY ITEM.
- Deed of Trust to secure an indebtedness of the amount stated below and any
 other amounts payable under the terms thereof.
 Amount : \$2,485,000.00
 Trustor/Borrower : Kumar Management, Corporation
 Trustee : UFF Incorporated, a Washington corporation
 Beneficiary/Lender : County Bank
 Dated : August 25, 2008
 Recorded : August 29, 2008 in Official Records under
 Recorder's Serial Number 19976582
 Loan No. : 7706327929
 Returned to : San Jose #29, P.O. Box 3859, Merced, CA 95344
 In Connection therewith, said trustors executed an Assignment of Rents.
 Dated : August 25, 2008
 Recorded : August 29, 2008 in Official Records under
 Recorder's Serial Number 19976583
 Returned to Address : San Jose #29, P.O. Box 3859, Merced, CA 95344
 Hazardous Substances Certificate and Indemnity Agreement, pertaining to said
 Deed of Trust executed by Kumar Management, Corporation.
 Dated : August 25, 2008
 Recorded : August 29, 2008 in Official Records under
 Recorder's Serial Number 19976584
NOT A SURVEY ITEM.
- An unrecorded lease upon the terms, covenants, and conditions contained or
 referred to therein.
 Lessor : Crazy Creek Chagahly, Inc.
 Disclosed by : Notice of Non-Responsibility
 Dated : October 6, 2010
 Recorded : October 15, 2010 in Official Records under
 Recorder's Serial Number 20915136
 NOTE: The present ownership of said leasehold or leaseholds and other matters
 affecting the interest of the lessee or lessors are not shown herein.
NOT A SURVEY ITEM.
- Deed of Trust to secure an indebtedness of the amount stated below and any
 other amounts payable under the terms thereof.
 Amount : \$1,228,500.00
 Trustor/Borrower : Rakesh Kumar and Premila Kumar, Trustees of
 Rakesh Kumar and
 Premila Kumar Revocable Family Trust U/D/T
 Trustee : Chicago Title Company
 Beneficiary/Lender : Umpqua Bank
 Dated : March 6, 2012
 Recorded : March 27, 2012 in Official Records under
 Recorder's Serial Number 21599910
 Modification/amendment of the terms of said Deed of Trust, by an instrument
 Entitled : Modification of Deed of Trust
 Executed By : Rakesh Kumar and Premila Kumar, Trustees of
 Rakesh Kumar and Premila Kumar Revocable
 Family Trust U/D/T dated February 15, 2012 and
 Umpqua Bank
 Dated : December 10, 2012
 Recorded : December 17, 2012 in Official Records under
 Recorder's Serial Number 2206231
 Modification/amendment of the terms of said Deed of Trust, by an instrument
 Entitled : Modification of Deed of Trust
 Executed By : Rakesh Kumar and Premila Kumar, Trustees of
 Rakesh Kumar and Premila Kumar Revocable
 Family Trust U/D/T dated February 15, 2012 and
 Umpqua Bank
 Dated : April 8, 2015
 Recorded : April 21, 2015 in Official Records under Recorder's
 Serial Number 22823521
 Hazardous Substances Certificate and Indemnity Agreement, pertaining to said
 Deed of Trust executed by Rakesh Kumar and Premila Kumar, Trustees of
 Rakesh Kumar and Premila Kumar Revocable Family Trust U/D/T, dated February
 15, 2012 and Umpqua Bank.
 Dated : March 6, 2012
 Recorded : March 27, 2012 in Official Records under
 Recorder's Serial Number 21599911
NOT A SURVEY ITEM.

EXCEPTIONS TO COVERAGE (CONTINUED)

- A financing statement given as additional security for the payment of the
 indebtedness secured by the Deed of Trust.
 Show As : UCC Financing Statement
 Debtor : The Rakesh Kumar and Premila Kumar Revocable
 Family Trust
 Secured Party : Umpqua Bank
 Recorded : March 27, 2012 in Official Records under
 Recorder's Serial Number 21599912
NOT A SURVEY ITEM.
- Terms and conditions contained in the Rakesh Kumar and Premila Kumar
 Revocable Family Trust U/D/T dated February 15, 2012 as disclosed by Grant
 Deed.
 Dated : February 14, 2012
 Recorded : March 27, 2012 in Official Records under
 Recorder's Serial Number 21599910
 The requirement that:
 A Certification of Trust be furnished in accordance with Probate Code Section
 18100.5; and if the acting trustee is a successor trustee the additional
 requirement the Company is provided a complete copy of the trust, with all
 amendments and any intervening trustee is no longer acting in that capacity by
 providing copies of resignation letters, etc.
 The Company reserves the right to make additional exceptions and/or
 requirements upon review of the above.
NOT A SURVEY ITEM.
- Any facts, rights, interests, or claims that are not shown by the Public Records
 but that could be ascertained by an inspection of the land or that may be
 asserted by persons in possession of the Land.
NOT A SURVEY ITEM.
- The requirement that this Company be provided with an opportunity to inspect
 the land (the Company reserves the right to make additional exceptions and/or
 requirements upon completion of its inspection).
NOT A SURVEY ITEM.
- The requirement that this Company be provided with a suitable Owner's
 Declaration (Form ODT 174). The Company reserves the right to make additional
 exceptions and/or requirements upon review of the Owner's Declaration.
NOT A SURVEY ITEM.
- Any unrecorded and subsisting leases.
NOT A SURVEY ITEM.
- The effect of instruments, proceedings, liens, decrees or other matters which do
 not specifically describe said land but which, if any do exist, may affect the
 title or impose liens or encumbrances thereon. The name search necessary to
 ascertain the existence of such matters has not been completed and, in order
 to do so, we require a signed Statement of Identity form or on behalf of
 Rakesh Kumar.
NOT A SURVEY ITEM.

BOLD LETTERING RESPONSE IN THE EXCEPTIONS ARE THE SURVEYOR'S COMMENT.



VICINITY MAP
 NOT TO SCALE

ALTA/NPS LAND TITLE SURVEY
950 W. EL CAMINO REAL
MOUNTAIN VIEW, CA 94040

1725 AVENUE STREET
 SUITE 400
 SAN JOSE, CA 95128
 408-463-9700



CALIFORNIA

SANTA CLARA COUNTY

MOUNTAIN VIEW

SURVEYOR'S CERTIFICATE
 PALO ALTO HOLDING CORPORATION AND
 OLD REPUBLIC TITLE COMPANY

THIS IS TO CERTIFY THAT THIS MAP OR PLAN AND THE SURVEY ON WHICH IT IS
 BASED WERE MADE IN ACCORDANCE WITH THE 2016 MINIMUM STANDARD DETAIL
 REQUIREMENTS FOR ALTA/NPS LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND
 ADOPTED BY ALTA AND NPS, AND INCLUDES ITEMS 1, 2, 3, 4, 6(a), 6(b), 7(a),
 7(b)(1), 7(c), 8, 9, 10, 12, 14, 16, 17, 18 AND 20 OF TABLE A THEREOF. THE
 FIELDWORK WAS COMPLETED ON SEPTEMBER 21, 2017.

John Korozyan
 JOHN KOROZYAN
 P.L.S. NO. 8883
 JKOROZYAN@BKF.COM
 NOVEMBER 13, 2017
 DATED



Drawn	Checked	Reviewed
Scale	Scale	Scale
North Arrow	North Arrow	North Arrow
Survey Date	Survey Date	Survey Date
Drawn	Checked	Reviewed
Scale	Scale	Scale

S. SHORELINE BLVD.
(FORMERLY BAILEY AVE.)

ELEVATION BENCHMARK
CITY OF MOUNTAIN VIEW BENCHMARK IV-24
BRASS DISK STAMPED "IV-24" SET IN THE TOP OF CURB AT THE
NORTHWESTERLY CORNER OF CASTRO STREET AND EL CAMINO
REAL APPROXIMATELY 100 FEET WEST OF THE WESTERLY R/W OF
CASTRO STREET
ELEVATION = 104.751 FEET BASED ON NORTH AMERICAN VERTICAL
DATUM OF 1988 (NAVD88).

BASIS OF BEARINGS
THE BEARING N26°28'20"E OF THE MONUMENT LINE OF CASTRO STREET,
BETWEEN FOUND MONUMENTS, AS SHOWN ON THAT CERTAIN PARCEL
MAP, FILED FOR RECORD OCTOBER 29, 2013 IN BOOK 857 OF MAPS AT
PAGES 46 THROUGH 48 INCLUSIVE, RECORDS OF SANTA CLARA COUNTY,
CALIFORNIA.

- LEGEND**
- APN ASSESSOR'S PARCEL NUMBER
 - ASV ANTI-SIPHON VALVE
 - BLDG BUILDING
 - BNRY BOUNDARY
 - BOL BOLLARDS
 - CB CATCH BASIN
 - CR CAST IRON PIPE
 - CLF CHAIN LINK FENCE
 - COL COLUMN
 - COMM COMMUNICATION
 - CONC CONCRETE
 - CSJ CITY OF SAN JOSE
 - CATV CABLE TV
 - DI DRAIN INLET
 - EB ELECTRIC BOX
 - EP EDGE OF PAVEMENT
 - EV ELECTRIC VALVE
 - FF FINISHED FLOOR
 - FH FIRE HYDRANT
 - GV GAS VALVE
 - HB HOSE BOX
 - HCR HANDICAP RAMP
 - ICV IRRIGATION CONTROL VALVE
 - MAN MANHOLE
 - MON MONUMENT
 - PA PLANTER AREA
 - PC&E PACED GAS & ELECTRIC PIPE
 - PCP REINFORCED CONCRETE PIPE
 - SDCB STORM DRAIN CATCH BASIN
 - SLB STREET LIGHT BOX
 - SDMB STORM DRAIN MANHOLE
 - SDCO SANITARY SEWER CLEAN OUT
 - SDMW SANITARY SEWER MANHOLE
 - TEL TELEPHONE
 - TRAF TRANSFORMER
 - TSP TRAFFIC SIGNAL BOX
 - UB UTILITY BOX
 - UTL UTILITY
 - WB WATER BOX
 - WM WATER METER
 - WV WATER VALVE
 - ES EASEMENT
 - PM PARCEL MAPS
 - EXC. NO. EXCEPTION NUMBER
 - IN INSIDE SUBJECT BOUNDARY
 - OU OUTSIDE SUBJECT BOUNDARY
- FOUND MONUMENTS AS NOTED ON MAP
- RECORD DATA 607 O.R. 161
 - RECORD DATA 3154 O.R. 317
 - RECORD DATA 591 O.R. 551
 - RECORD DATA DOC. 21599903 (TITLE REPORT PARCEL)
 - RECORD DATA 111 M 31
 - RECORD DATA 140 M 17
 - RECORD DATA 557 M 4
 - RECORD DATA 703 M 16-17



17000 17TH STREET
SUITE 100
SAN JOSE, CA 95131
408-443-3100
408-443-3100

BKF
Boundary/Survey/Planning

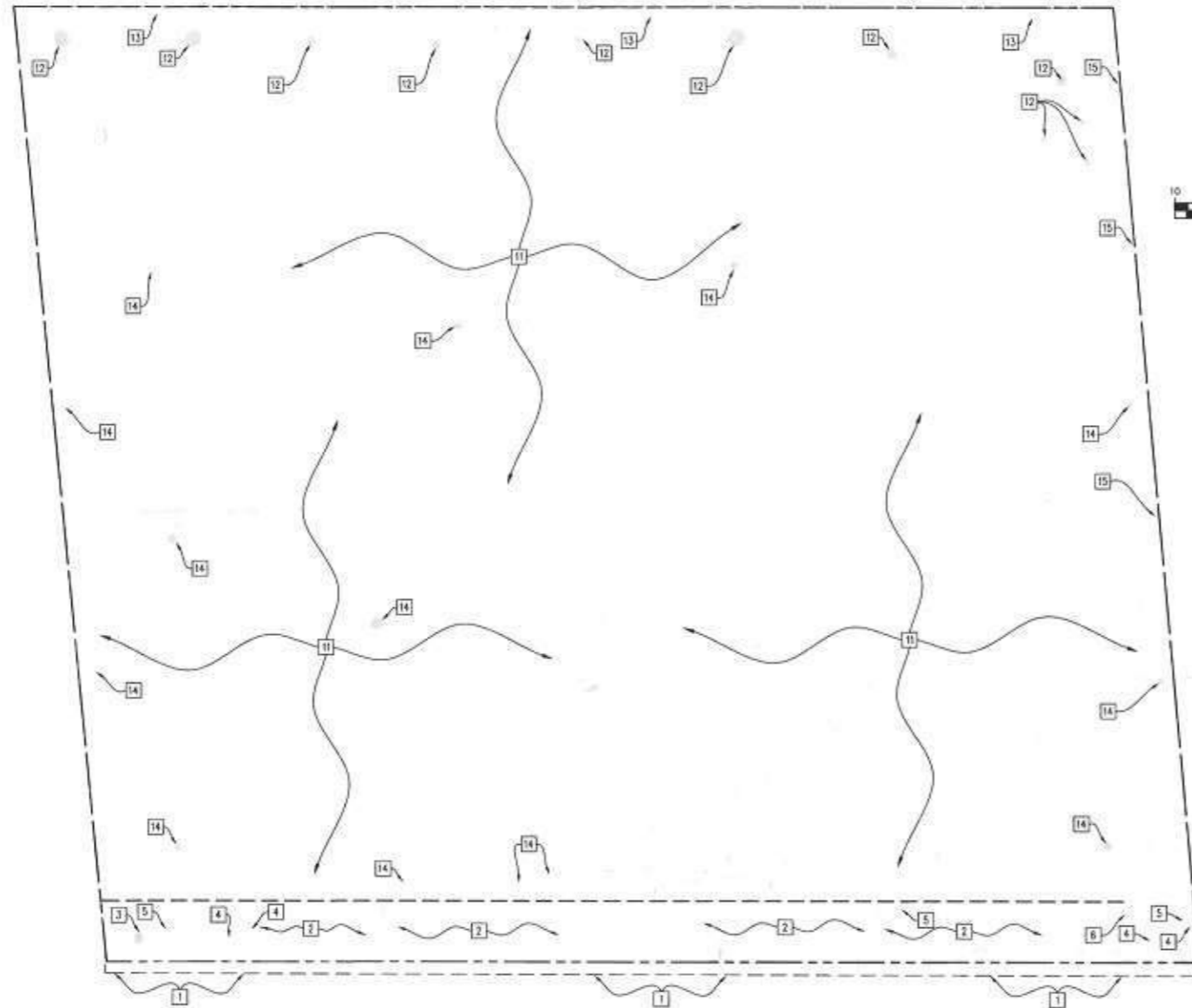
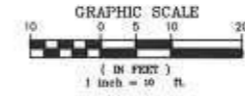
CALIFORNIA

ALTA/NSPS LAND TITLE SURVEY
950 W. EL CAMINO REAL
MOUNTAIN VIEW, CA 94040
SANTA CLARA COUNTY

MOUNTAIN VIEW

DATE	11-13-2017
SCALE	AS SHOWN
DRAWN BY	JANIS JAY
PERFORMED BY	JANIS JAY
APPROVED BY	[Signature]
JOB NO.	20170204
DRAWING NUMBER	2

RUTH
3134 O.R. 317



VANDANA HOSPITALITY
DOC. NO. 19402199

GRAHAM
607 O.R. 161

EL CAMINO REAL

DEMOLITION NOTES (OFFSITE):

1. LIMIT OF IMPROVEMENT. CONTRACTOR SHALL CONFORM TO EXISTING GRADE AND PROVIDE SMOOTH TRANSITION. CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS TO REMAIN AND REPAIR ANY DAMAGED IMPROVEMENTS DUE TO THE CONSTRUCTION ACTIVITY BEYOND THE LIMIT OF WORK. CONTRACTOR SHALL CONFORM TO EXISTING GRADE AND PROVIDE SMOOTH TRANSITION. CONTRACTOR SHALL INSTALL TEMPORARY SCREENED FENCE AROUND THE WORK AREA PRIOR TO BEGINNING WORK.
2. SAW CUT & EXISTING AC PAVEMENT AND REMOVE EXISTING ASPHALT CONCRETE, CONCRETE BASE, SIDEWALK, DRIVEWAY, CURB AND GUTTER FOR CONSTRUCTION OF NEW IMPROVEMENTS. REFER TO GRADING PLAN FOR MORE INFORMATION. REPAIR ANY DAMAGED IMPROVEMENTS WITHIN THE PUBLIC RIGHT OF WAY PER CITY OF MOUNTAIN VIEW REQUIREMENTS.
3. EXISTING FIRE HYDRANT TO REMAIN. CONTRACTOR TO EXERCISE EXTREME CAUTION DURING CONSTRUCTION IN ORDER NOT TO DAMAGE EXISTING FIRE HYDRANT. IF DAMAGED, CONTRACTOR SHALL PAY FOR EXPENSES. CONTRACTOR SHALL ADJUST THEM TO MATCH FINAL GRADE AND PROTECT THEM DURING THE ENTIRE CONSTRUCTION PERIOD.
4. EXISTING STREET LIGHT AND STREET LIGHT BOX AND ASSOCIATED UNDERGROUND LINES TO REMAIN. CONTRACTOR SHALL ADJUST THEM TO MATCH FINAL GRADE AND PROTECT THEM DURING THE ENTIRE CONSTRUCTION PERIOD.
5. EXISTING ELECTRICAL BOX AND HIGH VOLTAGE ASSOCIATED UNDERGROUND LINES TO REMAIN. CONTRACTOR SHALL ADJUST THEM TO MATCH FINAL GRADE AND PROTECT THEM DURING THE ENTIRE CONSTRUCTION PERIOD.
6. EXISTING TELEPHONE BOX AND UNDERGROUND TELEPHONE LINES TO REMAIN. CONTRACTOR SHALL ADJUST THEM TO MATCH FINAL GRADE AND PROTECT THEM DURING THE ENTIRE CONSTRUCTION PERIOD.

DEMOLITION NOTES (ONSITE):

11. THE CONTRACTOR SHALL PERFORM ALL CLEARING, DEMOLITION, REMOVAL OF OBSTRUCTIONS AND SITE PREPARATIONS NECESSARY FOR THE PROPER EXECUTION OF ALL WORK SHOWN ON THE PLANS AND AS DESCRIBED WITHIN THE SPECIFICATIONS FOR NEW IMPROVEMENTS. CLEAR SITE OF ALL OBSTRUCTIONS, INCLUDING EXISTING BUILDING, CONCRETE WALKS, STEPS, ASPHALT PAVEMENT, BURIED FOUNDATIONS, SLABS, UTILITY LINES, LIGHT POLE, VEGETATION AND DEBRIS. CLEAR HOLES RESULTING FROM REMOVAL OF UNDERGROUND OBSTRUCTIONS EXTENDING BELOW FINISH GRADE. BACKFILL TO SUBGRADE WITH MATERIAL CONFORMING TO THE GEOTECHNICAL REPORT REQUIREMENTS, AND COMPACT TO 95% COMPACTION. CONTRACTOR SHALL COORDINATE WITH THE EXISTING UTILITY OWNERS TO PERFORM THEIR WORK TO SHUT OFF EXISTING UTILITIES AND COORDINATE THEIR WORK SO AS NOT TO DELAY THE SCHEDULE OF THE CONTRACTOR. REFER TO PROJECT SPECIFICATIONS FOR MORE DETAILS.
12. EXISTING TREES TO REMAIN AND SHALL BE PROTECTED BY ORANGE TEMPORARY CONSTRUCTION FENCING OR AN APPROVED FENCING. FENCING SHALL NOT BE CLOSER THAN 5' FROM OUTSIDE EDGE OF TRUNK - PREFERRED DISTANCE IS IF MINIMUM - TO DELINEATE TREE PROTECTION ROOT DISTANCE. NO DEMOLITION SHALL BEGIN UNTIL FENCING IS IN PLACE. CONTRACTOR SHALL PROTECT EXISTING TREE AND IRRIGATION SYSTEM DURING THE CONSTRUCTION PERIOD AND PROVIDE IRRIGATION WATER. NO EXCAVATION SHALL OCCUR WITHIN FENCING WITHOUT ARBORIST SUPERVISION.
13. EXISTING CONCRETE WALL TO REMAIN. CONTRACTOR SHALL PROTECT THROUGHOUT ENTIRE CONSTRUCTION PROCESS.
14. REMOVE EXISTING TREES AND ENTIRE ROOT SYSTEM PER LANDSCAPING PLANS. BACKFILL IN ACCORDANCE WITH GEOTECHNICAL REPORTS AND EARTHWORK SPECIFICATIONS.
15. REMOVE EXISTING CONCRETE WALL, FENCE, POST AND THEIR FOOTING. CONTRACTOR SHALL COORDINATE WITH ADJACENT FOR REMOVAL AND PROVIDE LETTER NOTIFYING ADJACENT AND OUTLINE FENCE FOR REMOVAL. OWNER SHALL OBTAIN ANY REQUIRED PERMISSION FROM ADJACENT PROPERTY OWNER PRIOR TO CONTRACTOR MOBILIZATION FOR THE REMOVAL OF THE WALL AND FENCE THAT IS REQUIRED IN THIS NOTE.
16. REMOVE EXISTING CONCRETE CURB ALONG WESTERN PROPERTY LINE. CONTRACTOR SHALL COORDINATE WITH ADJACENT AS NEEDED TO REMOVE CURB AND PROTECT ADJACENT WALL ON ADJACENT'S PROPERTY. OWNER SHALL OBTAIN ANY REQUIRED PERMISSION FROM ADJACENT PROPERTY OWNER PRIOR TO CONTRACTOR MOBILIZATION FOR THE REMOVAL OF THE CURB THAT IS REQUIRED IN THIS NOTE.

TREE PROTECTION NOTES

- A) PRIOR TO DEMOLITION OF THE EXISTING STRUCTURES, THE CONTRACTOR SHALL CONTACT THE CONSULTING ARBORIST TO BE ON SITE AT THE START OF DEMOLITION.
- B) PRIOR TO ANY GRADING OR CONSTRUCTION, THE CONTRACTOR SHALL SET UP A TREE PROTECTION ZONE.
- C) TREE PROTECTION FENCING SHALL BE 6-FT HIGH FIXED POST CHAIN LINK PER CITY REQUIREMENTS, AND INSPECTED BY THE CITY ARBORIST PRIOR TO ANY WORK.
- D) ALL EQUIPMENT TRACKS SHALL REMAIN OUTSIDE OF THE DRIP LINE AND AVOID CONTACT WITH ANY PART OF ANY PROTECTED TREE.
- E) TREES TO BE SAVED SHALL BE FLAGGED AND MARKED PRIOR TO ANY CLEARING OR STRIPPING WORK. PROTECTIVE FENCING, WHERE REQUIRED BY THE CITY, SHALL BE INSTALLED PRIOR TO COMMENCING ANY GRADING. LOCATIONS OF FENCING SHALL BE DETERMINED IN THE FIELD BY THE CITY.
- F) NO ADDITIONAL TREE REMOVAL OTHER THAN ALREADY APPROVED SHALL OCCUR ON SITE UNTIL A TREE REMOVAL PERMIT HAS BEEN OBTAINED FROM THE CITY ARBORIST.
- G) THE CONTRACTOR SHALL APPLY A 6-INCH LAYER OF MULCH FROM TREE CHIPPINGS OVER THE SOILS SURFACE IN THE TREE PROTECTION ZONE. THIS SHALL BE DONE WITH THE SUPERVISION OF THE CONSULTING ARBORIST.
- H) ALL PROTECTED TREES SHALL BE IRRIGATED DURING CONSTRUCTION PER THE RECOMMENDATION OF THE CONSULTING ARBORIST.
- I) NO STOCKPILING, TRENCHING FOR UTILITIES OR DRAINAGE, GRADING, OR SOIL COMPACTING SHALL BE ALLOWED WITHIN THE TREE PROTECTION ZONE.
- J) ALL SOLVENTS, FUELS AND CONSTRUCTION DEBRIS SHALL BE KEPT OUTSIDE OF THE TREE PROTECTION ZONE.
- K) ALL PRUNING NEEDS SHALL BE DISCUSSED WITH THE CONSULTING ARBORIST FIRST, AND PERFORMED BY ISA CERTIFIED TREE WORKERS OR ARBORISTS.
- L) ALL FOOT TRAFFIC SHALL BE KEPT OUTSIDE OF THE TREE PROTECTION ZONE. IF IT BECOMES NECESSARY TO ACCESS THE TREE PROTECTION ZONE AREA FOR WORK ACCESS SUCH AS SCAFFOLD WORK, ETC. THE CONSULTING ARBORIST SHALL BE NOTIFIED.
- M) THE INSTALLATION OF THE 6-INCH LAYER OF WOOD CHIPS SHALL BE A MINIMUM REQUIREMENT TO PREVENT COMPACTION IF ENTERING THE TREE PROTECTION ZONE.
- N) AN ARBORIST SHALL BE CALLED ON THE SITE PRIOR TO ANY EXCAVATION WITHIN THE DRIPLINE OF ANY PROTECTED TREE.
- O) THE DEVELOPER SHALL MAINTAIN ALL PROTECTION FENCING IN AN UPRIGHT, STURDY MANNER AT THE PRESCRIBED LOCATIONS THROUGHOUT THE ENTIRE CONSTRUCTION PHASE.
- P) ALL TRENCHING AND/OR POST DRIVING WITHIN THE DRIPLINE OF PROTECTED TREES SHALL BE DONE WITH MAN-POWERED TOOLS.
- Q) REFER TO ARBORIST'S REPORT PREPARED BY BARRIE D. COATE & ASSOCIATES DATED OCTOBER 21, 2010 FOR TREE PROTECTION PLAN AND MEASURES.

LEGEND

--- LIMIT OF IMPROVEMENT. CONTRACTOR SHALL PROTECT EXISTING SITE FEATURES OUTSIDE THE IMPROVEMENT LIMIT AND MATCH EXISTING ELEVATION TO PROVIDE SMOOTH TRANSITION AND POSITIVE DRAINAGE PATTERN. PROTECT ALL UNDERGROUND UTILITY LINES AND PIPES IN THE LIMIT OF IMPROVEMENTS, UNLESS OTHERWISE SPECIFIED ON THIS PLAN.

**VAN METER
WILLIAMS
POLLACK LP**

22000 Van Meter Drive, Suite 200, San Francisco, CA 94134
Tel: 415-774-3388 Fax: 415-774-3389

- CIVIL ENGINEER**
Luk and Associates
728 Alameda Drive
Fremont, CA 94557
510-724-3388
- STRUCTURAL ENGINEER**
Murphy Ben Cery
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San Francisco, CA 94102
415-558-5322
- MEP ENGINEER**
Fard Engineers
301 Levent Lane, Suite 200
Walnut Creek, CA 94598
925-932-9539
- LANDSCAPE ARCHITECT**
Hill Associates
100 Cascade Drive
Aptos, CA 95023
408-761-9144

Stamp:

REV	REVISION	DATE

Project:
950 W EL CAMINO REAL
950 W EL CAMINO REAL
MOUNTAIN VIEW, CA 94040

Client:
PALO ALTO HOUSING
725 ALMA STREET
PALO ALTO, CA 94301
650-321-9708

Title:
PRELIMINARY DEMOLITION PLAN
Job#: 17155A10
Scale: 1" = 10'
Date: FEBRUARY, 2018
File#: DEMO-17155A10.dwg
Drawn By: D.A.D.
Checked By: J.L.J.C.
Sheet#:

C-3



SNAP SHOT BY VIEWPORT

- CIVIL ENGINEER**
Luk and Associates
 735 Almaden Avenue
 San Jose, CA 95128
 408-933-3388
- STRUCTURAL ENGINEER**
Murphy Barr Garry
 65 Second Street, Suite 4010
 San Francisco, CA 94105
 415-669-5322
- MEP ENGINEER**
Ford Engineers
 301 Lathrop Lane, Suite 200
 Walnut Creek, CA 94598
 925-932-0920
- LANDSCAPE ARCHITECT**
Hill Associates
 130 Cascade Drive
 Aliso, CA 92003
 656-781-3184

Stamp:

REV	REVISION	DATE

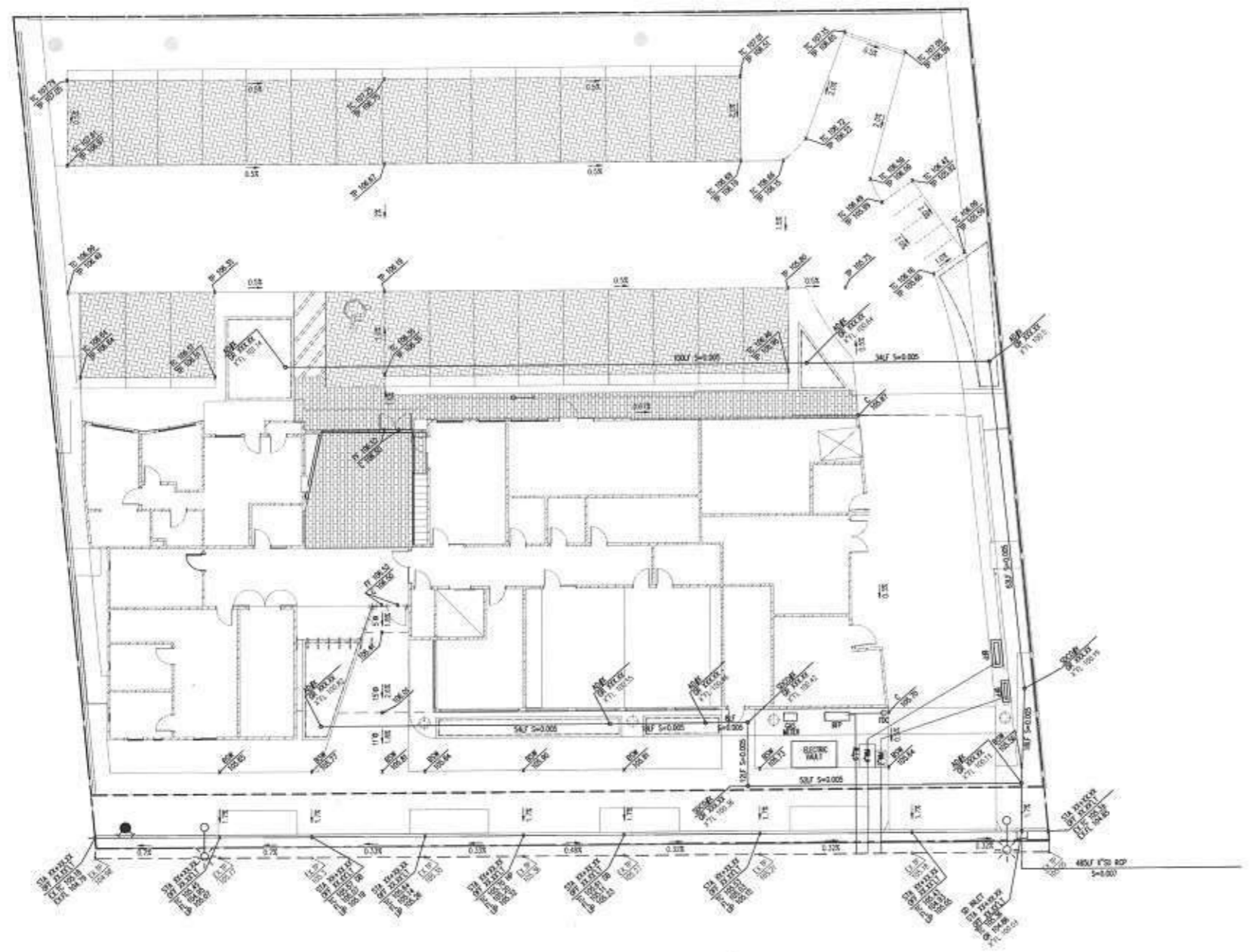
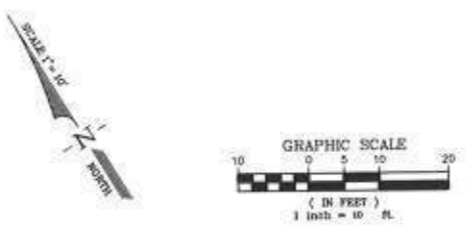
Project:
950 W EL CAMINO REAL
 950 W EL CAMINO REAL
 MOUNTAIN VIEW, CA 94040

Client:
PALO ALTO HOUSING
 725 ALMA STREET
 PALO ALTO, CA 94301
 650-321-8709

Title:
IMPROVEMENT PLAN

Job#: 17155A10
Scale: 1" = 10'
Date: JANUARY, 2018
File#: MASTER-P-17155A.dwg
Drawn By: D.A.D.
Checked By: J.L. J.J.C.
Sheet#:

C-4.1



EL CAMINO REAL

XREF: SURVEYOR, SITE, ROOF

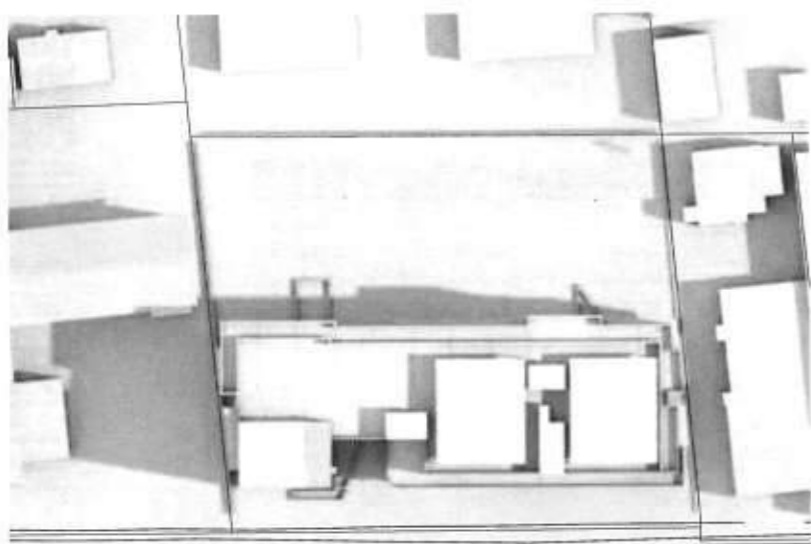
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CIVIL ENGINEER
Luk and Associates
720 Alamo Street
Menlo Park, CA 94025
650-724-3388

STRUCTURAL ENGINEER
Murphy Burt Curry, Inc.
85 Second Street, Suite 101
San Francisco, CA 94105
415-689-5322

MEP ENGINEER
FARD Engineers
300 Leavenworth St # 200
Walnut Creek, CA 94598
925-952-5595

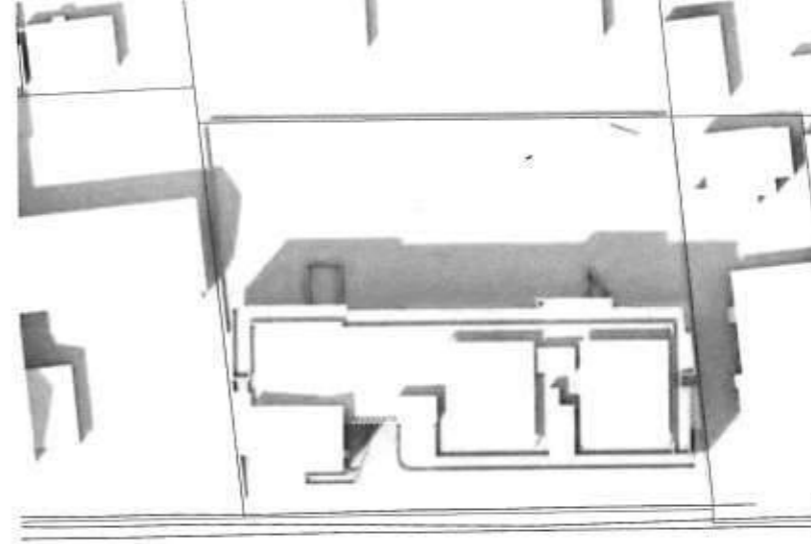
LANDSCAPE ARCHITECT
Hill Associates
100 Oakdale Drive
Aptos, CA 95021
408-751-3184



9 SUMMER SOLSTICE 9AM



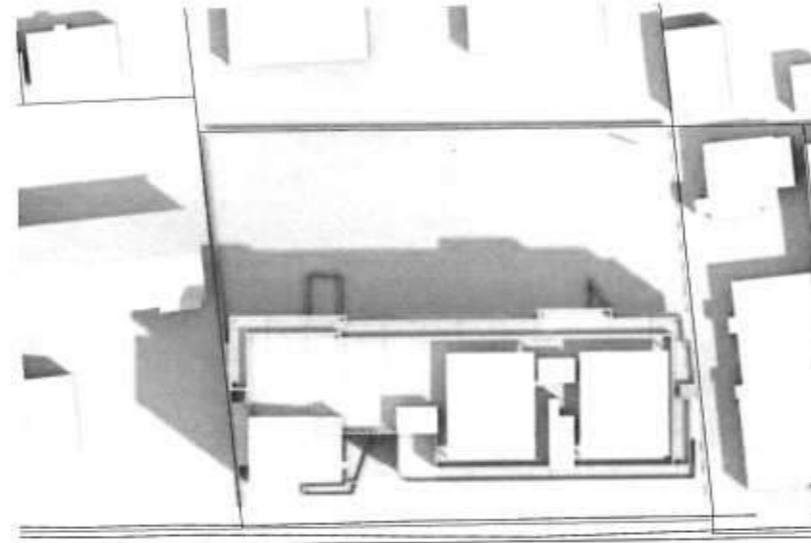
8 SUMMER SOLSTICE 12PM



7 SUMMER SOLSTICE 3PM



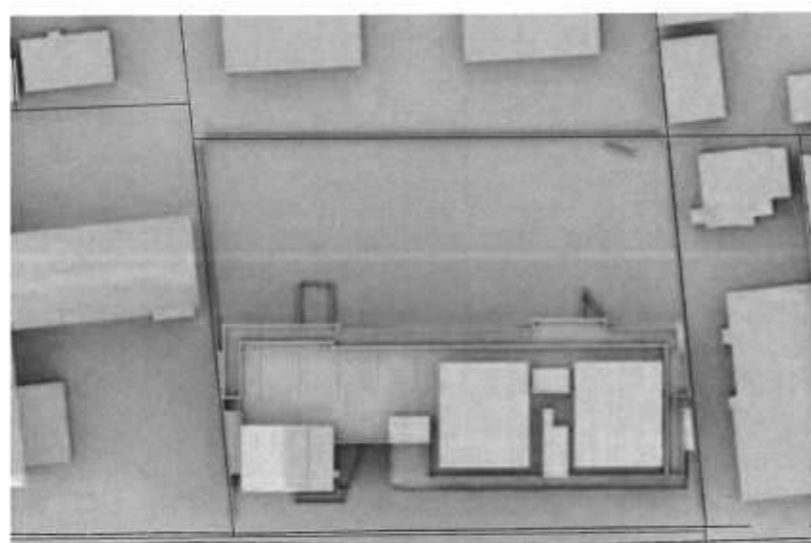
6 EQUINOX 9AM



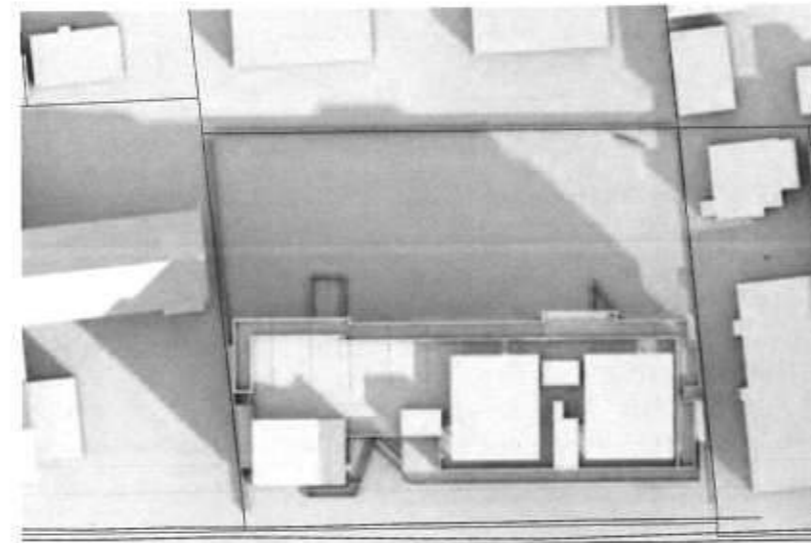
5 EQUINOX 12PM



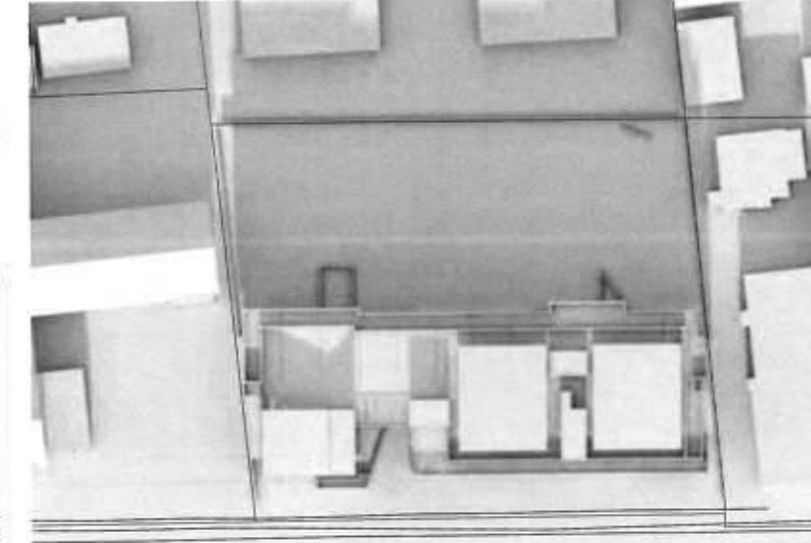
4 EQUINOX 3PM



3 WINTER SOLSTICE 9AM



2 WINTER SOLSTICE 12PM



1 WINTER SOLSTICE 3PM

Project:

950 W EL CAMINO REAL

950 W EL CAMINO REAL
MOUNTAIN VIEW, CA 94040

Client:

PALO ALTO HOUSING

725 Alamo St
Palo Alto, CA 94301
(650) 321-0709

SOLAR STUDY

Job#: 1733

Date: 2/13/18

Scale: AS NOTED

A6.0



4
A6.1 **EXTERIOR SCONCE**
TECH LIGHTING PITCH



5
A6.1 **PARKING AREA POLE**
SELUX AVANZA 450

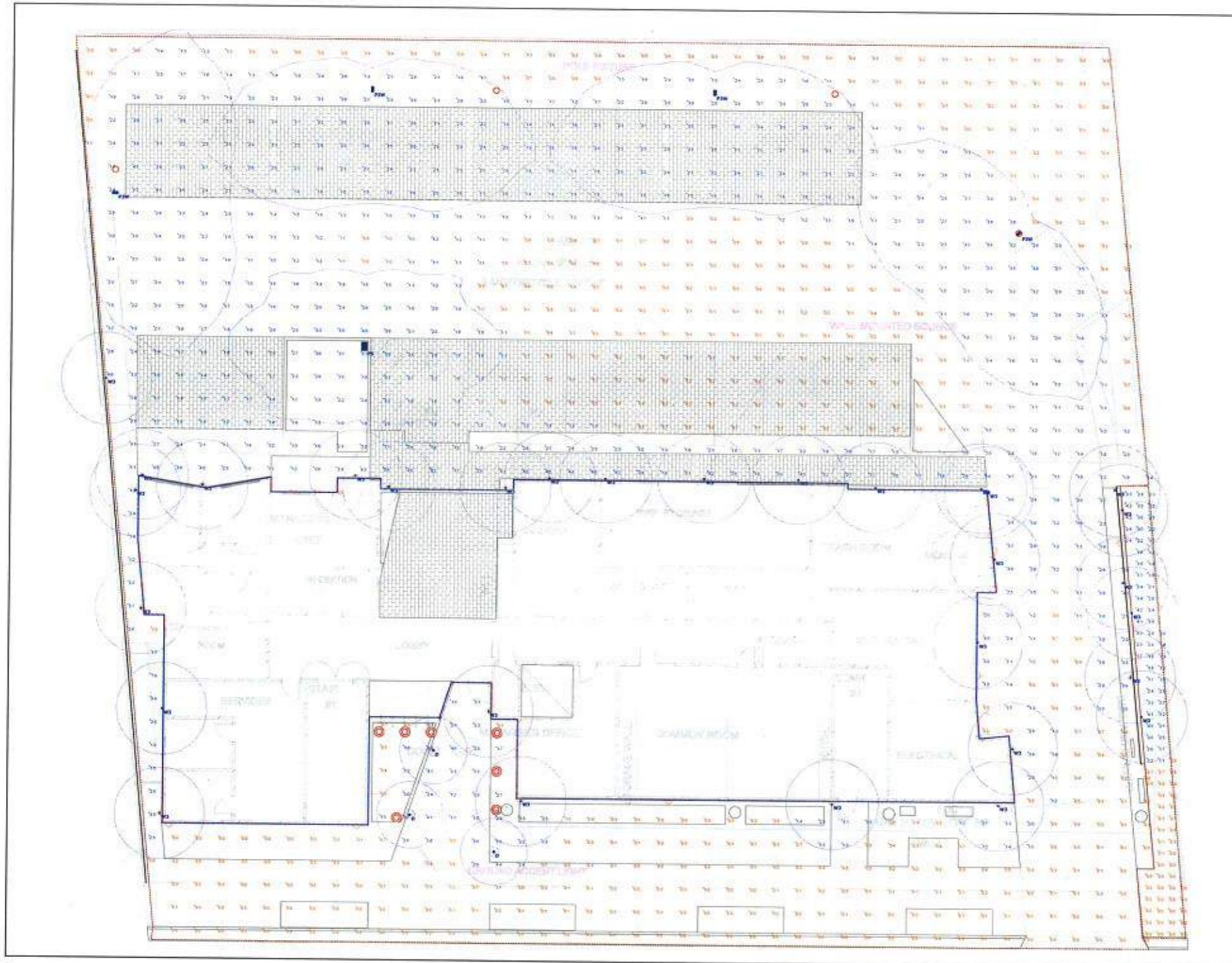


3
A6.1 **ENTRY BOLLARD**
ERCO CASTOR



2
A6.1 **GROUND ACCENT**
BEGA IN-GRADE

Symbol	Code	QTY	Quantity	Description	Notes	Product	Quantity	Unit Price	LP	Material
W 2	W 2	38	38	PROOFSPOT16-05430	LED Wall-Fount Luminaire	LED	1	\$21,045	0.80	24.2
P 2 W	P 2 W	4	4	AVA-SL-IP-1105-8-30-40-120-EX-10K-AD-8-ACF	AVANZA 450 w/ IP 105		2	4274	0.80	54
P 2 E	P 2 E	1	1	AVA-SL-IP-1105-15-40-120-EX-10K-42-2	AVANZA 450 w/ IP 105		1	4305	0.80	54
E	E	2	2	1028000-100	Cylind Bollard luminaire	LED 10W warm white	1	422	0.80	23



1
A6.1 **SITE PHOTOMETRIC PLAN**

SCALE: 1/8" = 1'-0"

- CIVIL ENGINEER
Luk and Associates
730 Almaden Drive
Menlo Park, CA 94025
650-724-3369
- STRUCTURAL ENGINEER
Murphy Bart Curry, Inc.
45 Second Street, Suite 501
San Francisco, CA 94105
415-669-5322
- MEP ENGINEER
FARD Engineers
308 Leavitt Loop # 200
Menlo Park, CA 94025
650-322-9555
- LANDSCAPE ARCHITECT
Hill Associates
100 Oakwood Drive
Aptos, CA 95025
408-781-0184

Project:
950 W EL CAMINO REAL
REAL

950 W EL CAMINO REAL
MOUNTAIN VIEW, CA 94040

Client:
PALO ALTO HOUSING

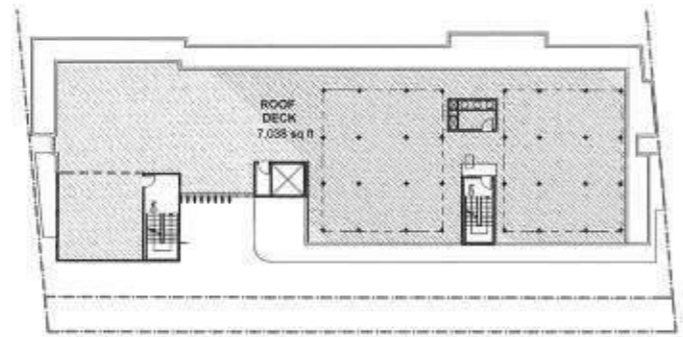
725 Alma St
Palo Alto, CA 94301
(650) 321-9700

PHOTOMETRIC PLAN &
FIXTURES

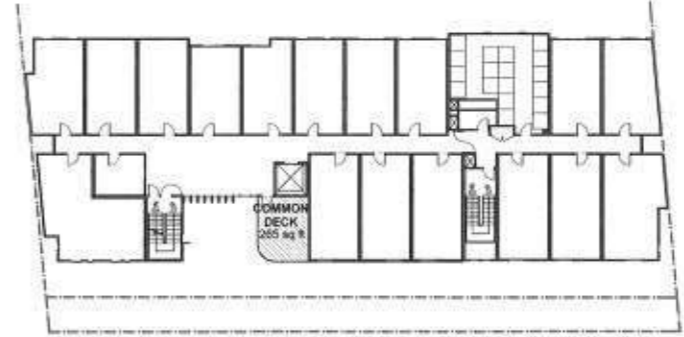
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Date: 2/13/18
Scale: AS NOTED

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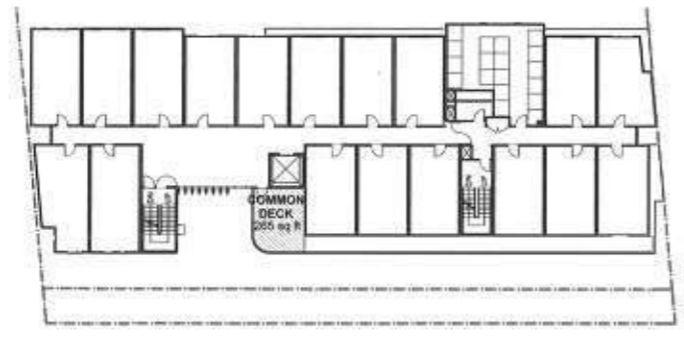
- CIVIL ENGINEER
Lik and Associates
738 Alfred Nobel Drive
Menlo Park, CA 94027
650-724-3388
- STRUCTURAL ENGINEER
Murphy Burr Curry, Inc.
85 Second Street, Suite 400
San Francisco, CA 94105
415-499-8322
- MEP ENGINEER
FARD Engineers
308 Lerman Ln # 200
Walnut Creek, CA 94598
925-932-5525
- LANDSCAPE ARCHITECT
Hill Associates
100 Oakdale Drive
Athens, CA 95021
408-761-3184



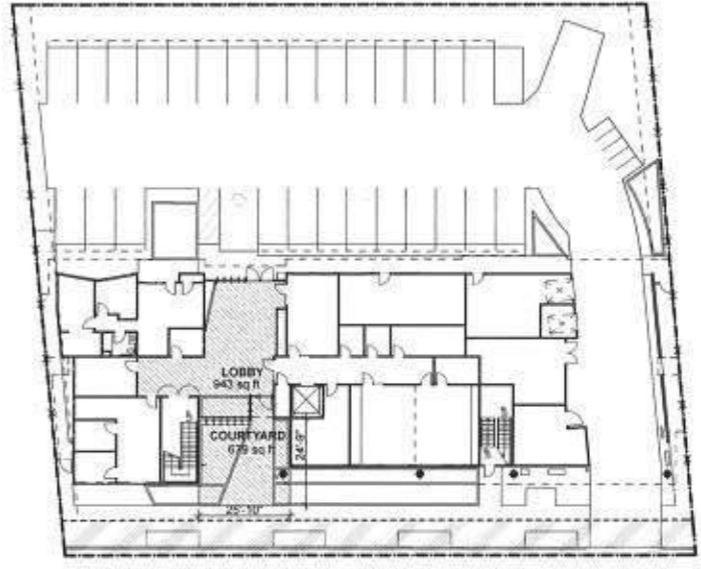
7 ROOF USABLE OPEN SPACE SCALE: 1" = 20'



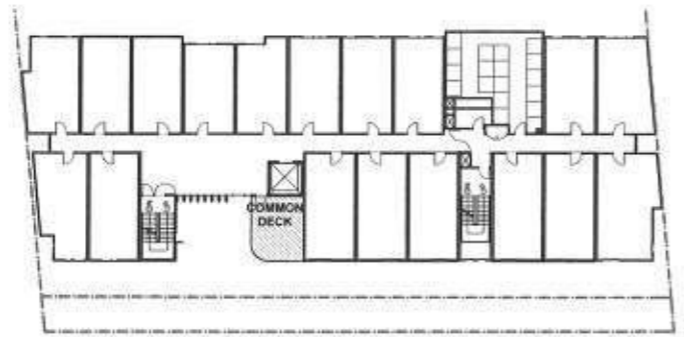
3 SECOND FLOOR USABLE OPEN SPACE SCALE: 1" = 20'



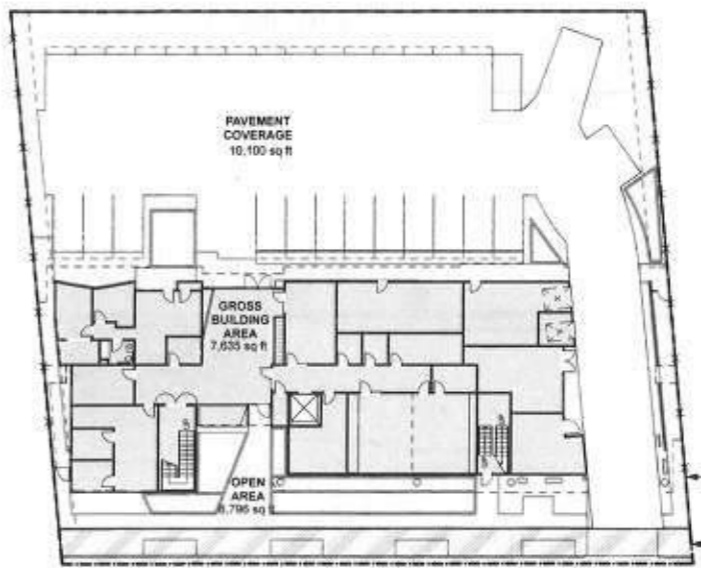
6 FIFTH FLOOR USABLE OPEN SPACE SCALE: 1" = 20'



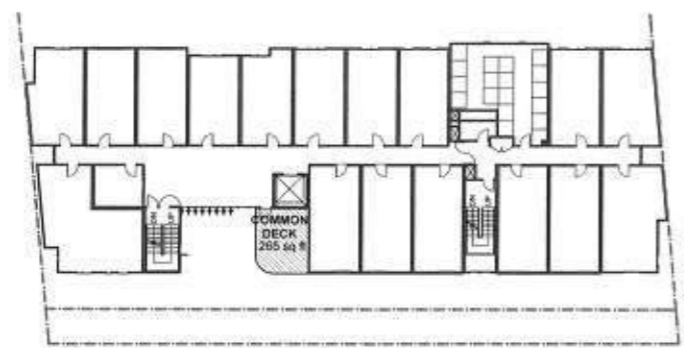
2 GROUND FLOOR USABLE OPEN SPACE SCALE: 1" = 20'



5 FOURTH FLOOR USABLE OPEN SPACE SCALE: 1" = 20'



1 GROUND FLOOR OPEN AREA SCALE: 1" = 20'



4 THIRD FLOOR USABLE OPEN SPACE SCALE: 1" = 20'

Project:
950 W EL CAMINO REAL
MOUNTAIN VIEW, CA 94040

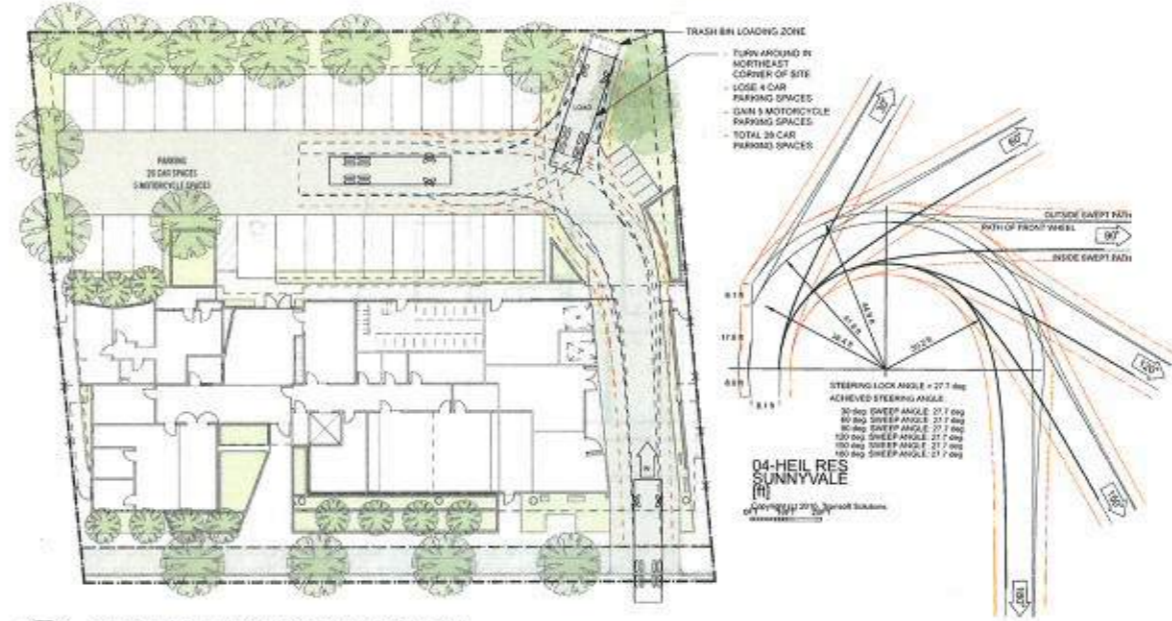
Client:
PALO ALTO HOUSING
725 Alma St
Palo Alto, CA 94301
(650) 321-9709

OPEN SPACE DIAGRAMS

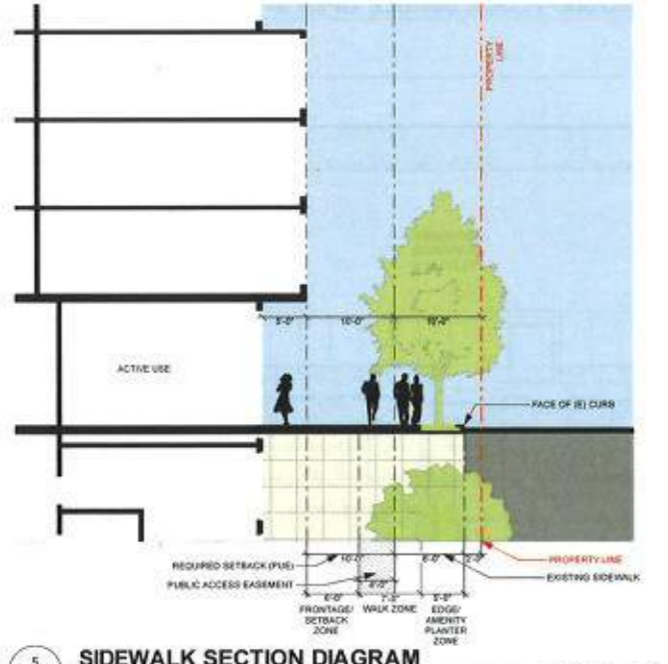
Job#: 1733
Date: 2/13/18
Scale: AS NOTED

8441 Bayview Ave #100, Redwood City, CA 94061-4201 | Phone: (650) 370-7818 | Fax: (650) 370-7819

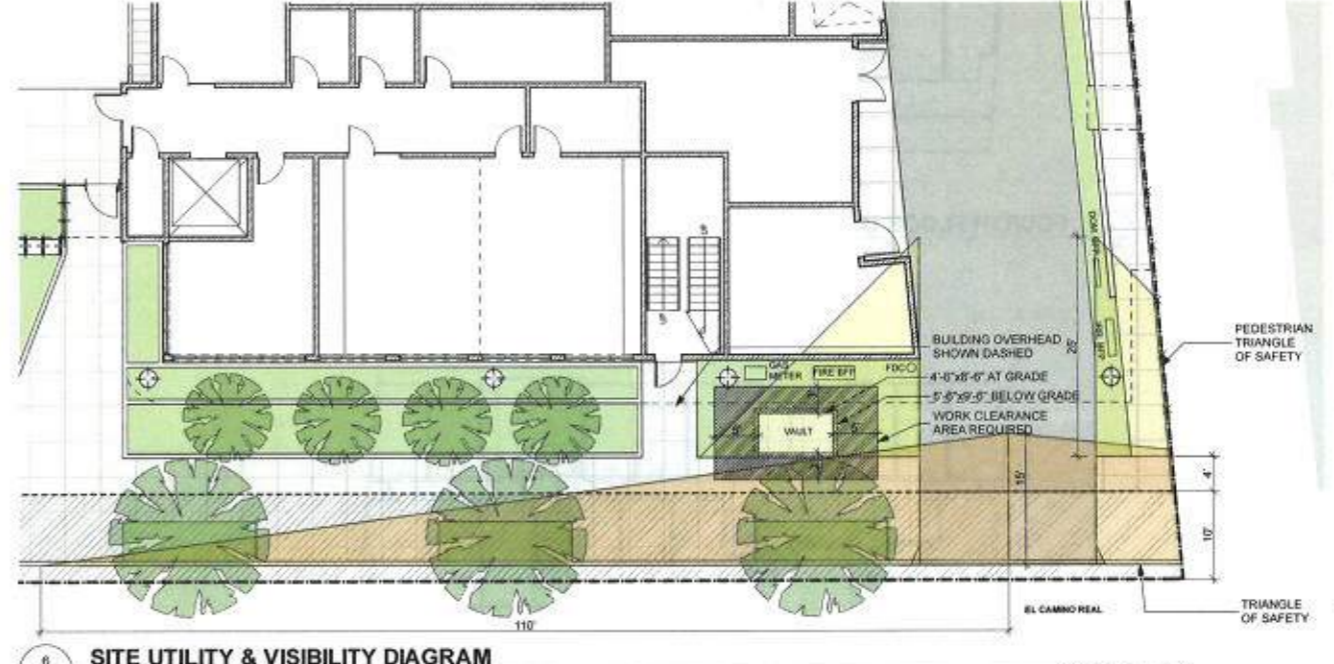
- CIVIL ENGINEER
Luk and Associates
720 Alameda Avenue
Berkeley, CA 94707
510-724-3388
- STRUCTURAL ENGINEER
Murphy Bur Cury, Inc.
85 Second Street, Suite 501
San Francisco, CA 94105
415-668-9322
- MEP ENGINEER
FARD Engineers
300 Lanyon Ln # 200
Walnut Creek, CA 94598
925-932-9885
- LANDSCAPE ARCHITECT
Hill Associates
100 Glendale Drive
Alhambra, CA 91803
626-781-3181



1 A6.3 TRASH TRUCK ACCESS DIAGRAM SCALE: 1" = 20'



5 A6.3 SIDEWALK SECTION DIAGRAM SCALE: 1" = 20'



6 A6.3 SITE UTILITY & VISIBILITY DIAGRAM SCALE: 1/8" = 1'-0"

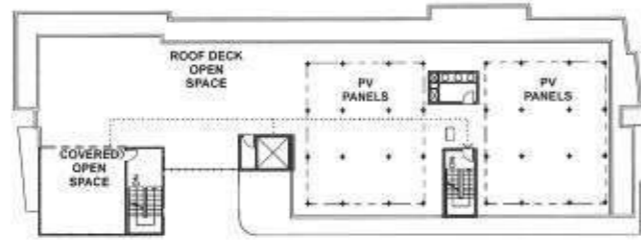
Project:
 950 W EL CAMINO REAL

Client:
 PALO ALTO HOUSING

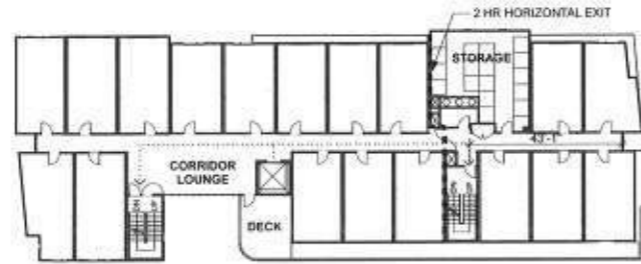
Planning & Fire Diagrams

Job# 1733
 Date: 2/13/18
 Scale: AS NOTED
A6.3

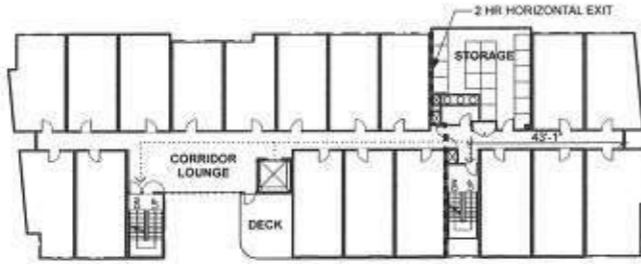
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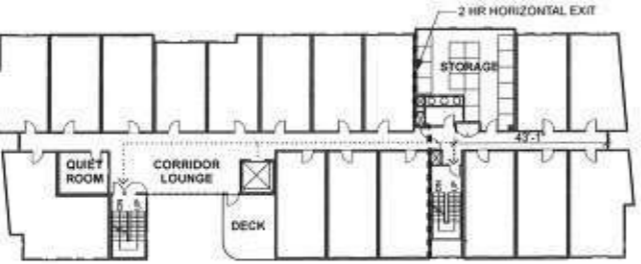
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A6.4 **FIFTH FLOOR EXITING DIAGRAM** SCALE: 1" = 20'



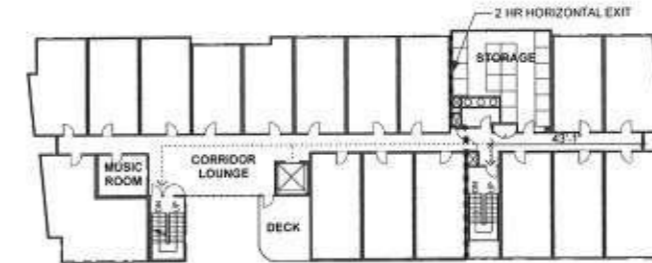
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A6.4 **FIFTH FLOOR EXITING DIAGRAM** SCALE: 1" = 20'



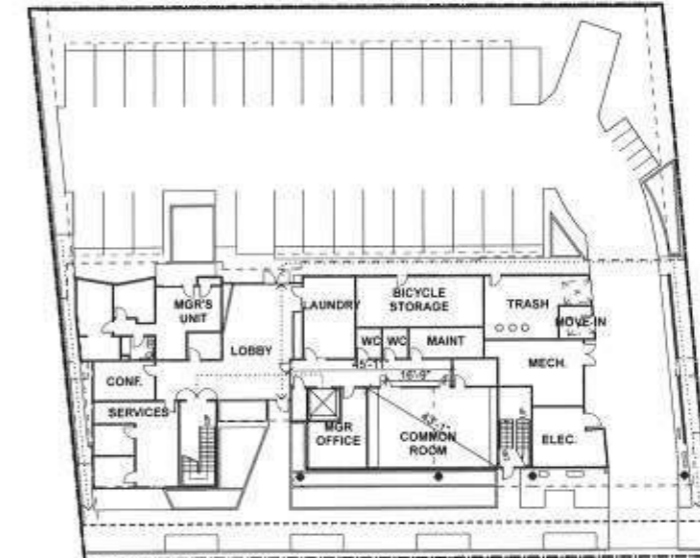
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A6.4 **FOURTH FLOOR EXITING DIAGRAM** SCALE: 1" = 20'



3
A6.4 **THIRD FLOOR EXITING DIAGRAM** SCALE: 1" = 20'



2
A6.4 **SECOND FLOOR EXITING DIAGRAM** SCALE: 1" = 20'



1
A6.4 **GROUND FLOOR EXITING DIAGRAM** SCALE: 1" = 20'

- **CIVIL ENGINEER**
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732 Alhambra Drive
Menlo Park, CA 94027
650-724-2388
- **STRUCTURAL ENGINEER**
Murphy Burr Curry, Inc.
85 Second Street, Suite 501
San Francisco, CA 94102
415-689-5522
- **MEP ENGINEER**
FARD Engineers
399 Lanyon Ln # 200
Menlo Park, CA 94028
650-932-0500
- **LANDSCAPE ARCHITECT**
Hill Associates
160 Oakdale Drive
Aptos, CA 95023
408-781-5184

Project:
950 W EL CAMINO REAL
950 W EL CAMINO REAL
MOUNTAIN VIEW, CA 94040
Client:
PALO ALTO HOUSING
725 Alma St
Palo Alto, CA 94301
(650) 321-0709

EXITING DIAGRAMS

Job#: 1733
Date: 2/13/16
Scale: AS NOTED

BAA Studio: 2014-10-01; 10/13/16 10:13:16 AM; 10/13/16 10:13:16 AM; 10/13/16 10:13:16 AM

CIVIL ENGINEER
Luk and Associates
738 Alfred Nobel Drive
Menlo Park, CA 94025
650.724.0388

STRUCTURAL ENGINEER
Murphy Burr Curry, Inc.
85 Second Street, Suite 501
San Francisco, CA 94105
415.668.5322

MEP ENGINEER
FARD Engineers
308 Larkin Ln # 200
Redwood City, CA 94061
650.932.5555

LANDSCAPE ARCHITECT
Hill Associates
730 California Drive
Aptos, CA 95021
408.761.3454

OCCUPANCY CLASSIFICATION & EXITING

FLOOR / ROOM DESIGNATION	OCCUPANCY GROUP (CBC Chapter 10)	LOAD FACTOR (CBC Table 1004.1.2)	FLOOR AREA (Gross Area per CBC 1002)	OCCUPANT LOAD (Floor area / load factor)	MAX LOAD FOR EXIT (CBC Table 1005.3)	EGRESS INCHES (CBC 1005.3)		EXITS REQUIRED FROM SPACE
						STARBUK	OTHER	
LEVEL ONE SERVICES	B	100	650 sf	7.0	49	2	1	1
LEVEL ONE CONFERENCE ROOM	B	100	201 sf	3.0	49	1	1	1
LEVEL ONE MANAGERS OFFICE	B	100	312 sf	4.0	49	1	1	1
LEVEL ONE RECEPTION	B	100	88 sf	1.0	49	0	1	1
LEVEL ONE COMMON ROOM	A-3	15	895 sf	58.0	49	17	12	2
LEVEL ONE COMMON STORAGE	R-2 ACCESSORY	300	104 sf	1.0	10	0	1	1
LEVEL ONE MANAGERS UNIT	R-2	200	840 sf	5.0	10	2	1	1
LEVEL ONE LAUNDRY	R-2 ACCESSORY	300	394 sf	2.0	10	1	1	1
LEVEL ONE RESTROOM	R-2 ACCESSORY	300	88 sf	1.0	10	0	1	1
LEVEL ONE RESTROOM	R-2 ACCESSORY	300	88 sf	1.0	10	0	1	1
LEVEL ONE STORAGE CLOSET	R-2 ACCESSORY	300	47 sf	1.0	10	0	1	1
LEVEL ONE MAINTENANCE	U	300	199 sf	1.0	49	0	1	1
LEVEL ONE BKE STORAGE	U	300	524 sf	2.0	49	1	1	1
LEVEL ONE MOVE-IN	U	300	105 sf	1.0	49	0	1	1
LEVEL ONE TRASH	U	300	455 sf	2.0	49	1	1	1
LEVEL ONE MECHANICAL	U	300	421 sf	2.0	49	1	1	1
LEVEL ONE ELECTRICAL	U	300	335 sf	2.0	49	1	1	1
LEVEL ONE EGRESS COMPONENTS	R-2	200	1,830 sf	-	-	-	-	-
TOTAL			7,424 sf					
TOTAL FLOOR ACCESSORY OCCUPANCY SF 10% MAX PER CBC 508.2.1 			651 sf	PERCENT OF FLOOR AREA:		8.77%		
LEVEL TWO RESIDENTIAL	R-2	200	7,286 sf	37.0	10	12	8	2
LEVEL TWO MUSIC ROOM	B*	100	181 sf	2.0	49	1	1	1
LEVEL TWO STORAGE	R-2 ACCESSORY	300	715 sf	3.0	10	1	1	1
LEVEL TWO TRASH	U	300	89 sf	1.0	49	0	1	1
LEVEL TWO ROOF DECK	A-3	15	265 sf	18.0	49	5	4	1
LEVEL TWO EGRESS COMPONENTS	R-2	200	2,087 sf	-	-	-	-	-
TOTAL (excludes roof decks)			10,358 sf					
TOTAL FLOOR ACCESSORY OCCUPANCY SF 10% MAX PER CBC 508.2.1 			715 sf	PERCENT OF FLOOR AREA:		6.90%		
LEVEL THREE RESIDENTIAL	R-2	200	7,286 sf	37.0	10	12	8	2
LEVEL THREE QUIET ROOM	B*	100	181 sf	2.0	49	1	1	1
LEVEL THREE STORAGE	R-2 ACCESSORY	300	715 sf	3.0	10	1	1	1
LEVEL THREE TRASH	U	300	89 sf	1.0	49	1	1	1
LEVEL THREE ROOF DECK	A-3	15	265 sf	18.0	49	6	4	1
LEVEL THREE EGRESS COMPONENTS	R-2	200	2,087 sf	-	-	-	-	-
TOTAL (excludes roof decks)			10,358 sf					
TOTAL FLOOR R-2 ACCESSORY OCCUPANCY SF 10% MAX PER CBC 508.2.1 			715 sf	PERCENT OF FLOOR AREA:		6.90%		
LEVEL FOUR RESIDENTIAL	R-2	200	7,487 sf	38.0	10	12	8	2
LEVEL FOUR STORAGE	R-2 ACCESSORY	300	715 sf	3.0	49	1	1	1
LEVEL FOUR TRASH	U	300	89 sf	1.0	10	1	1	1
LEVEL FOUR ROOF DECK	A-3	15	265 sf	18.0	10	6	4	1
LEVEL FOUR EGRESS COMPONENTS	R-2	200	2,087 sf	-	-	-	-	-
TOTAL (excludes roof decks)			10,358 sf					
TOTAL FLOOR R-2 ACCESSORY OCCUPANCY SF 10% MAX PER CBC 508.2.1 			715 sf	PERCENT OF FLOOR AREA:		6.90%		
LEVEL FIVE RESIDENTIAL	R-2	200	6,777 sf	34.0	10	11	7	2
LEVEL FIVE STORAGE	R-2 ACCESSORY	300	715 sf	3.0	10	1	1	1
LEVEL FIVE TRASH	U	300	89 sf	1.0	49	1	1	1
LEVEL FIVE ROOF TERRACE	A-3	15	265 sf	18.0	49	5	4	1
ROOF DECK	A-3		7,039 sf					
LEVEL FIVE EGRESS COMPONENTS	R-2	200	2,027 sf	-	-	-	-	-
TOTAL (excludes roof decks)			9,906 sf	58.0				
TOTAL FLOOR R-2 ACCESSORY OCCUPANCY SF 10% MAX PER CBC 508.2.1 			715 sf	PERCENT OF FLOOR AREA:		7.44%		
TOTAL BUILDING (GROSS) AREA (PER CBC 1902)			48,106 sf					
* Small Assembly Space occupancy classified per CBC 305.1.2								

Project:

**950 W EL CAMINO
REAL**

950 W EL CAMINO REAL
MOUNTAIN VIEW, CA 94040

Client:

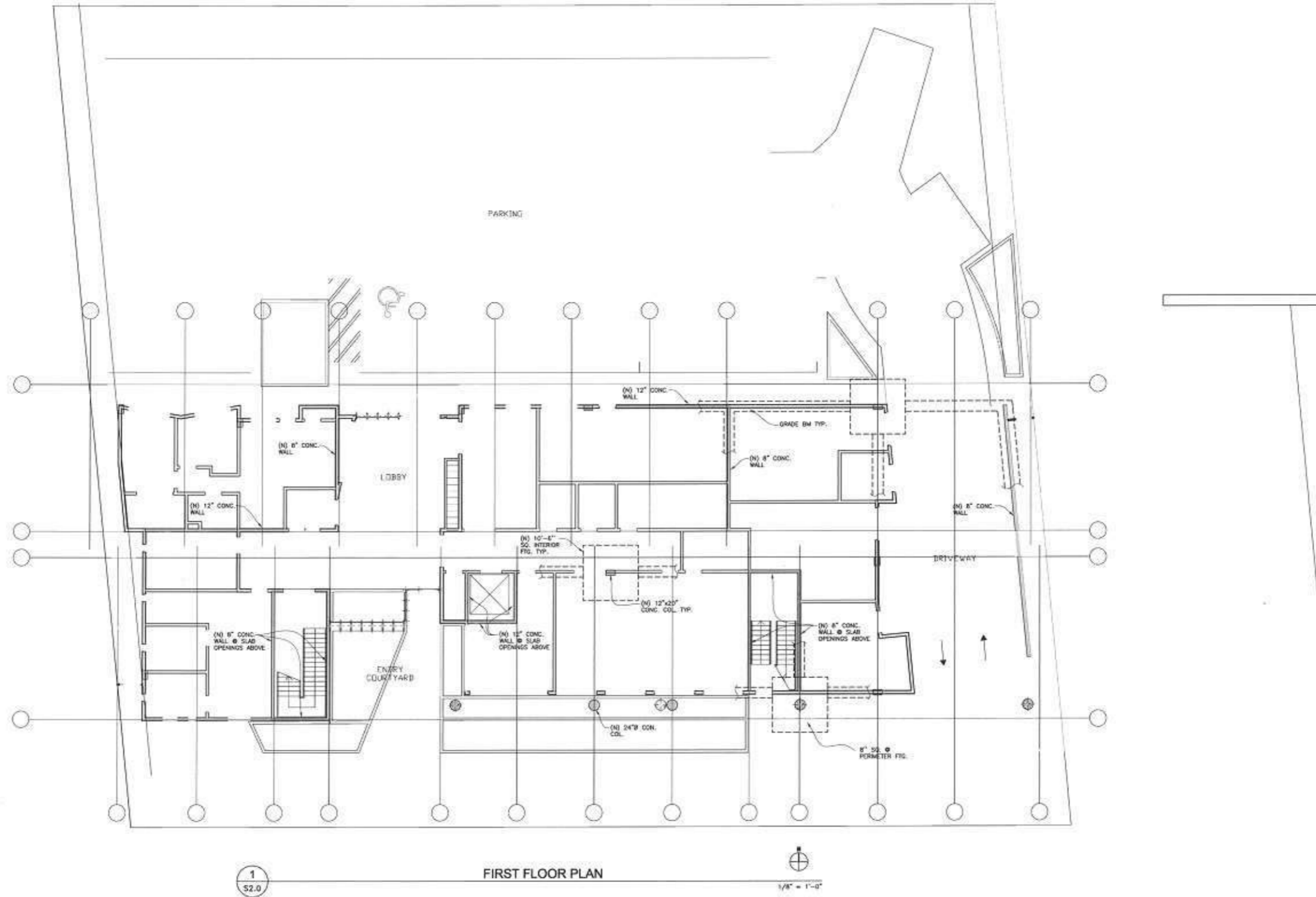
**PALO ALTO
HOUSING**

725 Alma St
Palo Alto, CA 94301
(650) 321-9709

OCCUPANCY TABLE

Job#: 1733
Date: 2/13/18
Scale: AS NOTED

A6.5



ID	NAME	DATE
100N.60		2-23-18

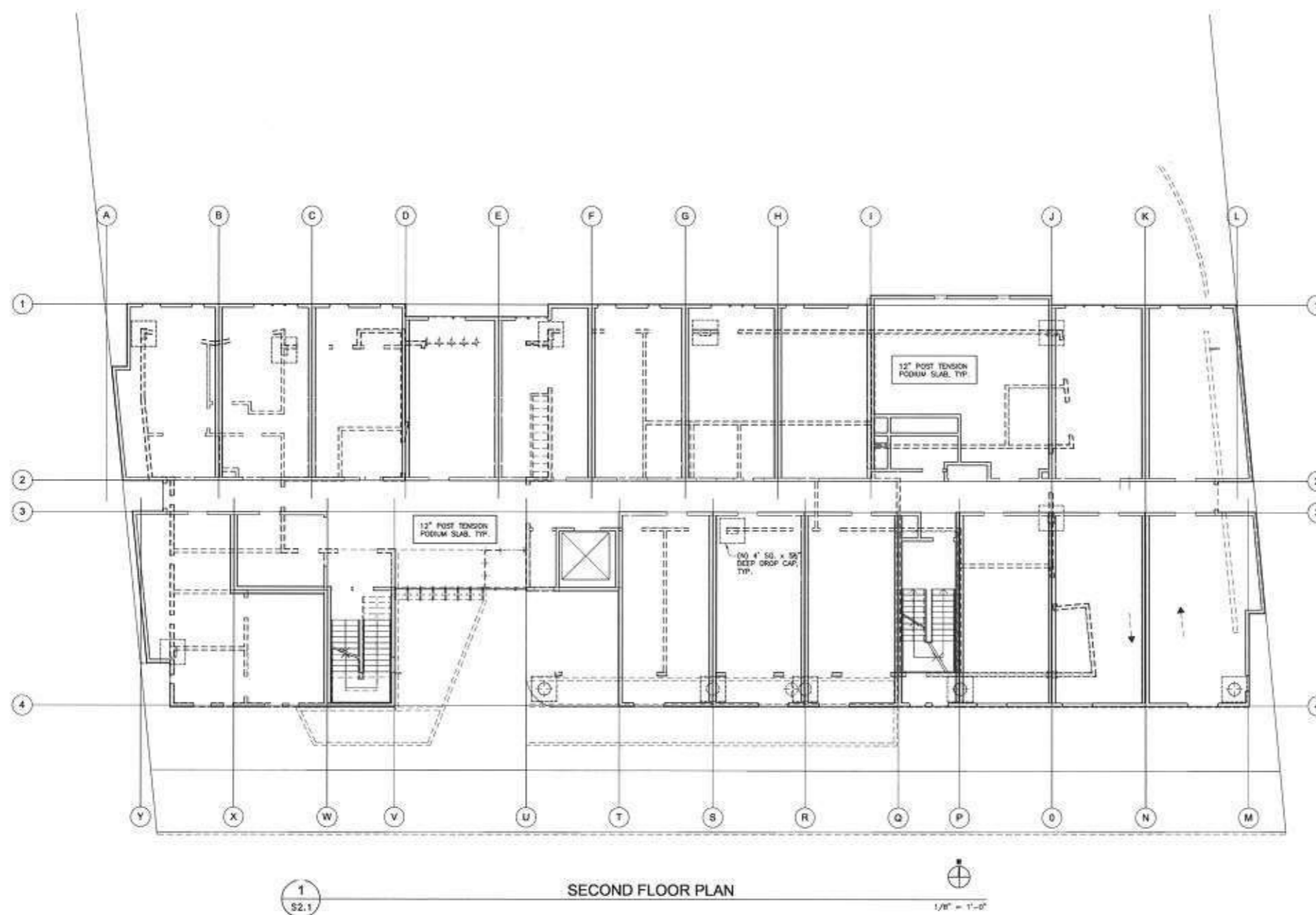
Project:
950 W EL CAMINO REAL

950 W EL CAMINO REAL
MOUNTAIN VIEW, CA 94040

PALO ALTO HOUSING
725 Alma St
Palo Alto, CA 94301
(650) 321-9709

FIRST FLOOR PLAN

Job#: 217-365
Scale: AS NOTED **S2.0**
Date: 02-05-18



ID	NAME	DATE
	100% NO	2-20-18

Project:
950 W EL CAMINO REAL

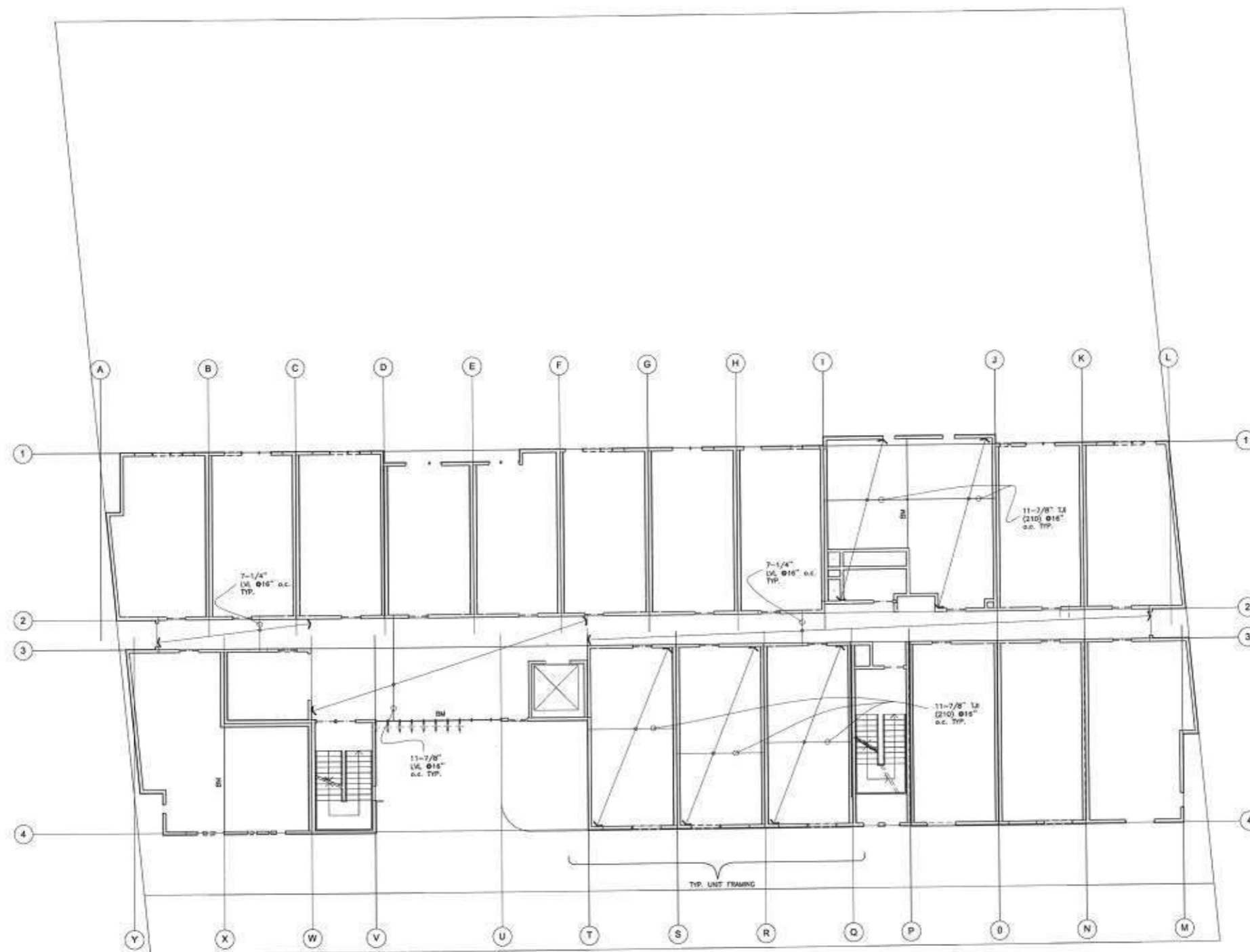
950 W EL CAMINO REAL
MOUNTAIN VIEW, CA 94040

Client:
PALO ALTO HOUSING
725 Alma St
Palo Alto, CA 94301
(650) 321-9709

SECOND FLOOR PLAN

Job#: 217-363
Scale: AS NOTED
Date: 02-06-18

S2.1



1
S2.2

THIRD FLOOR PLAN



ID	NAME	DATE
100%	SO	2-20-18

Project:
950 W EL CAMINO REAL

950 W EL CAMINO REAL
MOUNTAIN VIEW, CA 94040

Client:
PALO ALTO HOUSING

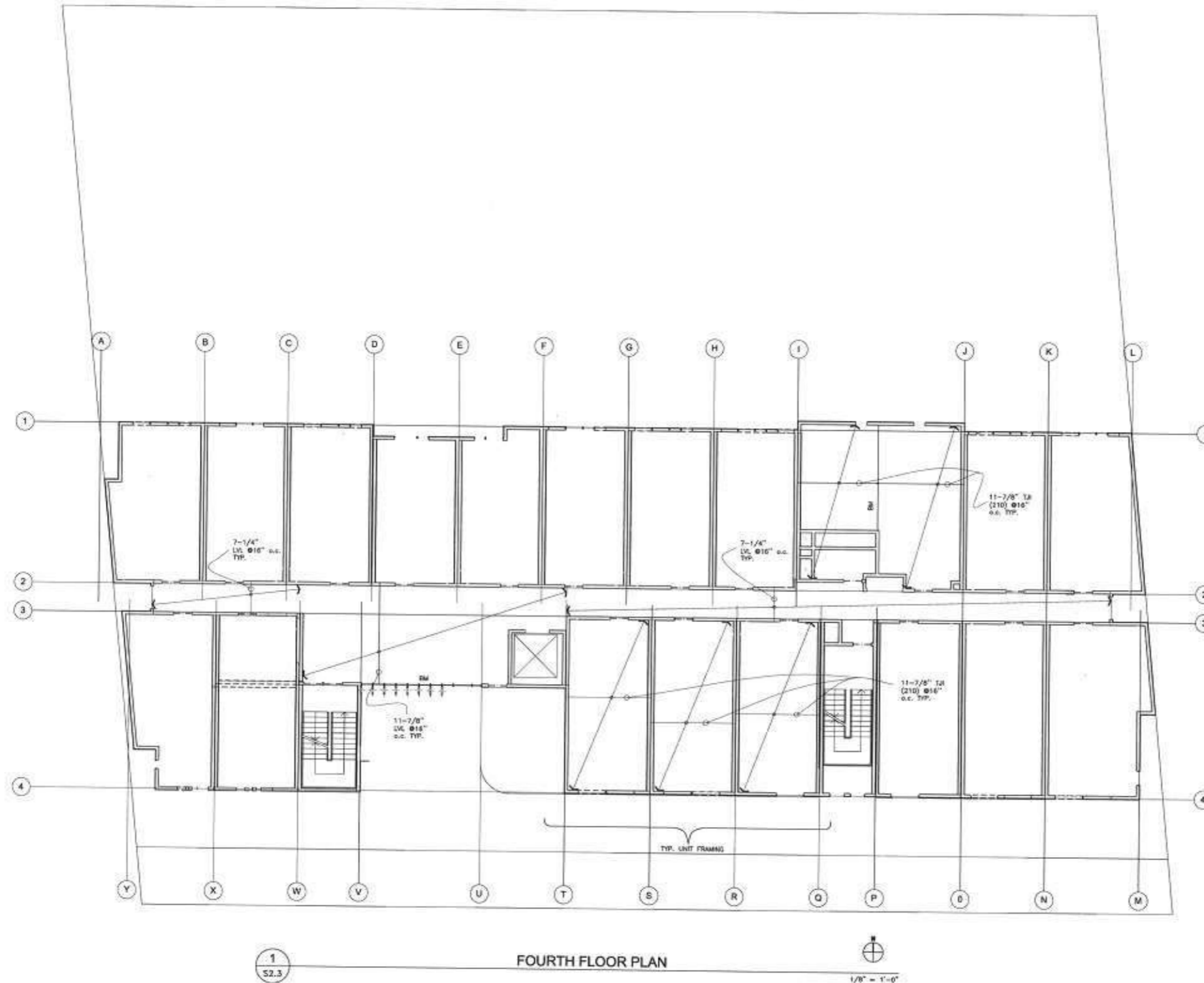
725 Alma St
Palo Alto, CA 94301
(650) 321-9709

THIRD FLOOR PLAN

Job#: 217-363
Scale: AS NOTED
Date: 02-06-18

S2.2

STRUCTURAL ENGINEER
Murphy Burr Curry, Inc.
85 Second Street, Suite 501
San Francisco, CA 94102
415-546-0431



ID	NAME	DATE
100%	SD	2-23-18

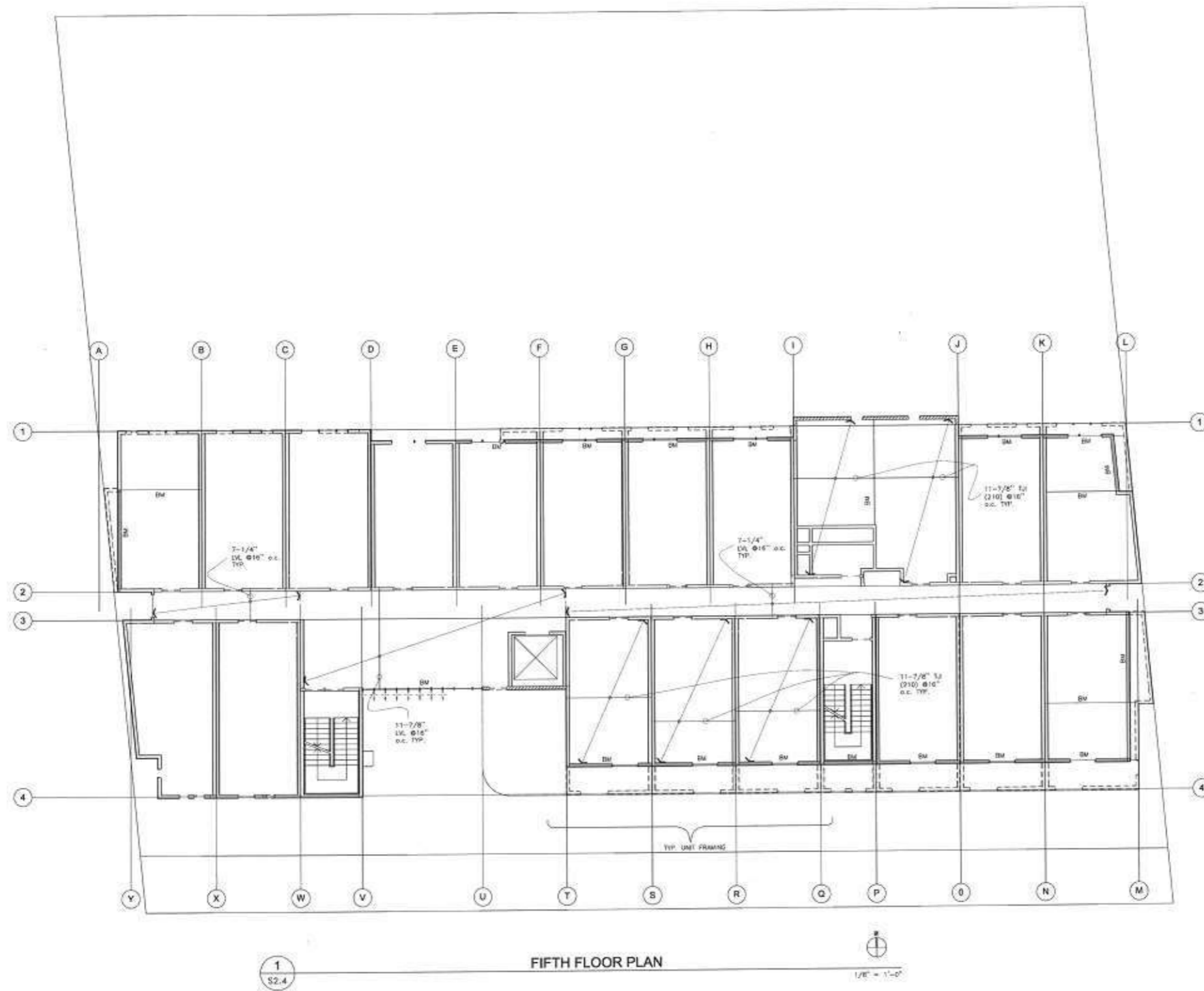
Project:
950 W EL CAMINO REAL

950 W EL CAMINO REAL
MOUNTAIN VIEW, CA 94040

Client:
PALO ALTO HOUSING
725 Alma St.
Palo Alto, CA 94301
(650) 321-9709

FOURTH FLOOR PLAN

STRUCTURAL ENGINEER
Murphy Barr Curry, Inc.
60 Second Street, Suite 901
San Francisco, CA 94102
415-545-0431



ID	NAME	DATE
100%	SD	2-20-18

Project:
950 W EL CAMINO REAL

900 W EL CAMINO REAL
MOUNTAIN VIEW, CA 94040
Client:

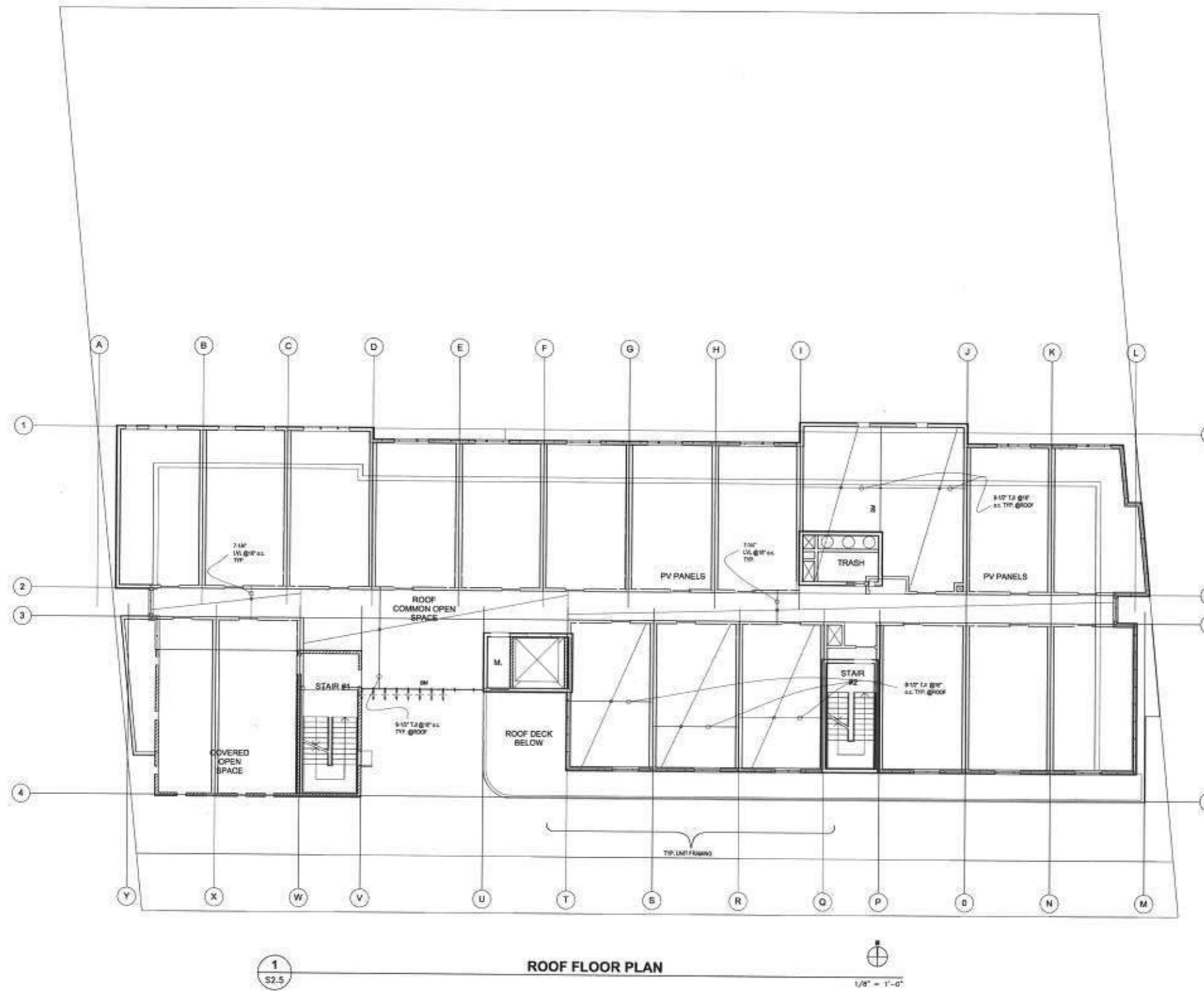
PALO ALTO HOUSING

725 Alma St
Palo Alto, CA 94301
(650) 321-9709

FIFTH FLOOR PLAN

Job#: 217-363
Scale: AS NOTED **S2.4**
Date: 02-06-18

STRUCTURAL ENGINEER
Murphy Burt Curry, Inc.
85 Second Street, Suite 201
San Francisco, CA 94105
415-546-0431



ID	NAME	DATE
100%	SD	2-25-18

Project:
950 W EL CAMINO REAL

950 W EL CAMINO REAL
MOUNTAIN VIEW, CA 94040

Client:

PALO ALTO HOUSING

725 Alma St
Palo Alto, CA 94301
(650) 321-9709

Job#: 217-363
Scale: AS NOTED
Date: 02-06-18

MECHANICAL SYMBOLS	
SYMBOL	DESCRIPTION
	DUCTWORK
	LINED DUCTWORK
	DUCTWORK BREAK
	GROSS SECTION OF SUPPLY DUCT OR CEILING SUPPLY DIFFUSER
	GROSS SECTION OF RETURN DUCT OR CEILING RETURN GRILLE
	GROSS SECTION OF EXHAUST DUCT OR CEILING EXHAUST GRILLE
	DUCT RISE
	FLEXIBLE DUCTWORK
	AIR TERMINAL INDICATING FLOW DIRECTION, TYPE, SIZE AND CFM
	CONCENTRIC SQUARE TO ROUND TRANSITION
	MANUAL VOLUME DAMPER
	MOTORIZED DAMPER
	COMBINATION FIRE/SMOKE DAMPER
	FIRE DAMPER
	SMOKE DAMPER
	DUCT SMOKE DETECTION
	INTAKE OR EXHAUST
	AIRFLOW DIRECTION
	CEILING EXHAUST FAN
	ACCESS PANEL
	TEMPERATURE SENSOR (SPACE)
	THERMOSTAT (44R-AFT)
	CARBON MONOXIDE SENSOR
	CARBON DIOXIDE SENSOR
	SWITCH
	AIRFLOW MONITORING STATION
	CONDENSATE DRAIN

NOTE: THIS IS A STANDARD LIST OF COMMONLY USED DUCTWORK SYMBOLS. SOME OF THE SYMBOLS SHOWN ABOVE MAY NOT HAVE BEEN USED IN THE DRAWING PACKAGE.

GENERAL SYMBOLS	
SYMBOL	DESCRIPTION
	SHEET NOTE
	EQUIPMENT CALLOUT
	DETAIL REFERENCE: DETAIL CALLOUT SHEET CALLOUT
	SECTION CALLOUT
	POINT OF CONNECTION
	REVISION TAG

ABBREVIATIONS																																																																																																																									
ABC ABOVE CEILING	ABV ABOVE	AC ACCESS PANEL	ACC AIR CONDITIONING UNIT	AFD ABOVE FINISHED FLOOR	AFG ABOVE FINISHED GRADE	AHU AIR HANDLING UNIT	ARCH ARCHITECTURAL	BL BELOW	BF BELOW FINISHED FLOOR	BCG BELOW FINISHED GRADE	BHP BRAKE HORSEPOWER	B.D.G. BUILDING	BDG BOTTOM OF DUCT	BTU BRITISH THERMAL UNIT	BTU HOUR BTU HOUR	BTD BACK DRAFT DAMPER	BC BELOW CEILING	CC COOLING COIL	CLG CEILING	CFM AIRFLOW RATE - CUBIC FEET PER MINUTE	CHWR CHILLED WATER RETURN	CHWS CHILLED WATER SUPPLY	CONI CONTRACTOR	CONTR CONTRACTOR	CWR CONDENSER WATER RETURN	CWS CONDENSER WATER SUPPLY	D DROP	DB DRY BULB	DEG DEGREES	DL DOOR LEVER	DA DAMPER	DN DOWN	DRY RENT DRAWING	CWG CONDENSER WATER SUPPLY	E EXISTING	EAT ENTERING AIR TEMPERATURE	EDB EMERGING DRY BULB	EEER ENERGY EFFICIENCY RATIO	EF EXHAUST FAN	EL ELEVATION	ELEC ELECTRIC/ELECTRICAL EQUIPMENT	EAP EXTERNAL STATIC PRESSURE	EMB EMERGING WET BULB	EXH EXHAUST	T DEGREES FAHRENHEIT	FC FLEXIBLE CONNECTION	FFE FINISHED FLOOR ELEVATION	FLA FULL LOAD AMPS	FL FLOOR	FPM FEET PER MINUTE	FT FOOT	GA GAUGE	CPM GALLONS PER MINUTE	HC HEATING COIL	HP HORSEPOWER	HT HEIGHT	HIC HEATING	HVAC HEATING VENTILATION AND AIR CONDITIONING	HWR HEATING HOT WATER RETURN	HWS HEATING HOT WATER SUPPLY	IE INVERT ELEVATION IN FINISHED WALL	KE KITCHEN EXHAUST	KV KILOVOLT	LAT LEADING AIR TEMPERATURE	LBS POUNDS	LWT LEADING WATER TEMPERATURE	LVR LOWER	MAX MAXIMUM	MTH THOUSAND BTUH	MCA MAXIMUM CURRENT AMPS	MCC MOTOR CONTROL CENTER	MCH MECHANICAL	MFR MANUFACTURER	MIN MINIMUM	MOP MAXIMUM OVER CURRENT PROTECTION	MVD MOUNTED	MVQ MANUAL VOLUME DAMPER	N NEW	NC NORMALLY CLOSED	NO NORMALLY OPEN	NTS NOT TO SCALE	OA OUTSIDE AIR	PC PREHEAT COIL	PD PRESSURE DROP	PH PHASE	PLNG PLUMBING	PRV PRESSURE REDUCING VALVE	PSI POUNDS PER SQUARE INCH	POC POINT OF CONNECTION	REF REFRIGERATION	REQ REQUIRED	RET RETURN	RM ROOM	RFM REVOLUTIONS PER MINUTE	SAC SEE ARCHITECTURAL DRAWINGS	SA SUPPLY AIR	SEER SEASONAL ENERGY EFFICIENCY RATIO	SENS SENSIBLE	SP STATIC PRESSURE	SPEC SPECIFICATION	SS STAINLESS STEEL	SSD SEE STRUCTURAL DRAWINGS	STD STANDARD	STRUC STRUCTURAL	SA SUPPLY AIR SYMBOL	TAP TEMPERATURE AND PRESSURE	TC TIME CLOCK	TE TOILET EXHAUST	TEMP TEMPERATURE	TOP TOP OF DUCT	TYP TYPICAL	UG UNDERGROUND	UL UNDERWRITERS LABORATORIES	UNL UNLESS OTHERWISE NOTED	UDR UNDER DUCT	V VOLTS	VD VOLUME DAMPER	W WITH	W/O WITHOUT	WT WEIGHT	WB WET BULB

NOTE: THIS IS A STANDARD LIST OF COMMONLY USED ABBREVIATIONS. SOME OF THE ABBREVIATIONS SHOWN ABOVE MAY NOT HAVE BEEN USED IN THE DRAWING PACKAGE.

GENERAL NOTES:

- HEATING, VENTILATING AND AIR CONDITIONING SYSTEMS SHALL COMPLY WITH 2016 CALIFORNIA MECHANICAL CODE, 2016 CALIFORNIA TITLE 24 2016 CALIFORNIA GREEN BUILDING STANDARDS CODE, CITY ORDINANCE AND OTHER APPLICABLE CODES.
- DUCT LINING MATERIAL (DRAWING/CONTRACT DUCT LINER MATERIAL) SHALL HAVE A MOULD-HUMIDITY-AND-EROSION RESISTANT SURFACE THAT MEETS THE REQUIREMENTS OF U.L. 181 C.M.C. 604.0.
- FACTORY MADE AIR DUCTS SHALL BE CLASS 0 OR CLASS 1, U.L. 181, C.M.C. 602.3. ALL AIR DUCTS PENETRATING SEPARATION WALL, RATED WALLS, CEILING BETWEEN GARAGE AND LIVING AREA, RATED CEILING SHALL BE OF GA GALVANIZED SHEET METAL.
- INSULATION APPLIED TO THE EXTERIOR SURFACE OF DUCTS LOCATED IN BUILDING SHALL HAVE A FLAME SPREAD OF NOT MORE THAN 25 AND A SMOKE DEVELOPED RATING OF NOT MORE THAN 50 WHEN TESTED AS A COMPOSITE INSTALLATION INCLUDING INSULATION, FACING MATERIALS, TAPES AND ADHESIVES AS NORMALLY APPLIED.
- DUCT SHALL BE SUPPORTED PER THE MINIMUM REQUIREMENT OF SMACNA HVAC CONSTRUCTION STANDARDS AND SHALL BE BRACED AND DUCTED TO PREVENT LATERAL OR HORIZONTAL SWING. THE USE OF LATERAL OR HORIZONTAL SCISSOR RESTRAINT SUBELEMENTS PER "SMACNA" IS ALSO APPLICABLE.
- PROVIDE INSTALLATION INSTRUCTIONS FOR ALL LISTED EQUIPMENT FOR FIELD INSPECTOR AT TIME OF INSPECTION. CMC 303.1.
- ALL MECHANICAL EQUIPMENT SHALL BE ANCHORED OR STRAPPED TO STRUCTURE TO RESIST EARTHQUAKE MOTION. (PER CMC, SECTION 304.3)
- DUCT CONSTRUCTION, DUCT AND PLENUM CONSTRUCTION SHALL BE IN ACCORDANCE WITH CMC CHAPTER 6 & SMACNA HVAC CONSTRUCTION STANDARDS.
- ALL PIPING AND DUCTWORK SHALL BE INSULATED CONSISTENT WITH THE REQUIREMENTS OF CALIFORNIA TITLE 24.
- KITCHEN EXHAUST DUCT SHALL BE GALVANIZED STEEL OR ALUMINUM WITH SMOOTH INTERIOR SURFACES, MINIMUM 30 GAUGE STEEL OR 26 GAUGE ALUMINUM. DUCTS SHALL NOT BE CONNECTED OR INSTALLED WITH SHEET METAL SCREWS OR OTHER FASTENERS WHICH WILL OBSTRUCT THE FLOW.
- KITCHEN HOOD EXHAUST DUCT SHALL BE GALVANIZED STEEL WITH MINIMUM 26 GAUGE THICKNESS. DUCTS SHALL NOT BE CONNECTED OR INSTALLED WITH SHEET METAL SCREWS.
- FLEXIBLE DUCTWORK SHALL BE J.P. GENFLEX, OR EQUAL, INSULATED FLEXIBLE DUCT RATED TO APPROXIMATELY 2" OPERATING PRESSURE FOR DIFFUSERS. FLEXIBLE DUCT SHALL COMPLY WITH UL-181 STANDARDS. USE WITH MANUFACTURER'S APPROVED BAND AND TAPE MATERIALS ONLY. SUPPORT FLEXIBLE DUCT AT 4 FEET INTERVALS. DUCT HANGERS SHALL BE A MINIMUM OF 1-1/2" INCH WIDE, OTHERWISE PROVIDE SHEET METAL SADDLE TO COVER ONE-HALF OF DUCT CROSS-SECTION. PROVIDE SHEET METAL SLEEVE AT WALL AND FLOOR PENETRATION. PROVIDE ACoustic FLEXIBLE AIR DUCT WHERE NOTED.
- PROVIDE AIR BALANCE FOR ALL AIR HANDLING SYSTEMS. SUBMIT AIR BALANCE REPORT. PROVIDE OUTSIDE AIR FLOW TEST & BALANCE FOR ONE OUT OF SEVEN FOR EACH TYPE OF UNIT.
- PROVIDE OPERATION AND MAINTENANCE MANUAL FOR THE BUILDING OCCUPANT OR OWNER PER CALIFORNIA GREEN CODE, CMC 4.410.
- CLEANING AT THE TIME OF ROUGH INSTALLATION OR DURING STORAGE, DUCT COMPONENTS AND PLENUM OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEET METAL, OR OTHER METHOD THAT WILL REDUCE THE AMOUNT OF DUST OR DEBRIS WHICH MAY COLLECT IN THE SYSTEM PRIOR TO FINAL PER CMC 4.504.3.
- ADHESIVE, SEALANTS, AND CAULKING SHALL BE COMPLIANT WITH VOC OR OTHER TOXIC COMPOUND LIMITS. CMC 4.504.4.1.
- INDOOR AIR QUALITY PER CMC 4.506.1, OUTSIDE AIR DELIVERY IN ACCORDANCE WITH 1-24, CMC 4.506.2, DEMAND CONTROL PER 1-24.
- ENVIRONMENTAL COMFORT SYSTEM DESIGN CMC 5.507.
- FILTERS, AIR FILTERS SHALL COMPLY WITH CMC, CMC SECTION 4.504.5.3.
- PROVIDE SMART THERMOSTAT FOR HVAC SYSTEM, HONEYWELL PRESTIGE 3-0 OR EQUAL.
- ECONOMIZER FAULT DETECTION AND DIAGNOSTICS APPLY TO AIR COOLED UNITARY EQUIPMENT EQUIPPED WITH ECONOMIZER WITH 4 1/2 TON CAPACITY & LARGER. PROVIDE SENSOR & DEVICES PER 1-24, 1.20.2(1).
- INSULATE REFRIGERANT PIPING WITH MINIMUM 1/2" THICK R-4.2 INSULATION. PROVIDE INSULATION PROTECTION FOR OUTDOOR PIPING. ADD I-FLEX GUARD REFRIGERANT SUCTION LINE VAPOR RETARDANT.
- HEATING AND AIR-CONDITIONING SYSTEM DESIGN CMC 4.507.2. DUCT SYSTEMS ARE SIZED, DESIGNED, AND EQUIPMENT IS SELECTED USING THE FOLLOWING METHODS:
 - HEAT LOSS AND HEAT GAIN VALUES DESIGNED ACCORDING TO ENERGY-PRO SOFTWARE APPROVED BY DOE AND STATE OF CALIFORNIA WHICH IS EQUIPMENT TO ANSI/ACCA 2 MANUAL J-2004
 - SIZE DUCT SYSTEMS ACCORDING TO ASHRAE STANDARD HANDBOOK OF FUNDAMENTALS WHICH IS EQUIPMENT TO ANSI/ACCA 1 MANUAL D-2005.
 - SELECT HEATING AND COOLING EQUIPMENT ACCORDING TO SPACE LOAD CALCULATIONS WHICH IS EQUIPMENT TO ANSI/ACCA 3 MANUAL S-2004.
- INSTALLER TRAINING, CMC 702.1. HVAC SYSTEM INSTALLERS ARE TRAINED AND CERTIFIED IN THE PROPER INSTALLATION OF HVAC SYSTEMS. HVAC SYSTEM INSTALLERS SHALL BE TRAINED AND CERTIFIED IN THE PROPER INSTALLATION OF HVAC SYSTEMS AND EQUIPMENT BY A RECOGNIZED TRAINING OR CERTIFICATION PROGRAM. EXAMPLES OF ACCEPTABLE HVAC TRAINING AND CERTIFICATION PROGRAMS INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING:
 - STATE CERTIFIED APPRENTICESHIP PROGRAMS
 - PUBLIC UTILITY TRAINING PROGRAMS
 - TRAINING PROGRAMS SPONSORED BY TRADE, LABOR OR STATEWIDE ENERGY CONSULTING OR VERIFICATION ORGANIZATIONS
 - PROGRAMS SPONSORED BY MANUFACTURING ORGANIZATIONS
 - OTHER PROGRAMS ACCEPTABLE TO THE ENFORCING AGENCY.



CIVIL ENGINEER
Luk and Associates
730 Arredondo Drive
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415-726-3268

STRUCTURAL ENGINEER
Murphy Burr Curry, Inc.
85 Second Street, Suite 501
San Francisco, CA 94105
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MEP ENGINEER
FARD Engineers
209 Lennon Ln # 200
Walnut Creek, CA 94596
925-932-9505

LANDSCAPE ARCHITECT
Hill Associates
100 Cascade Drive
Alamo, CA 94501
408-761-3184



ID	DATE	NAME
	12-22-17	PRELIMINARY DRAWING
	02-13-18	100% GO

Project:
950 W EL CAMINO REAL
REAL

850 W EL CAMINO REAL
MOUNTAIN VIEW, CA 94040

Client:
PALO ALTO HOUSING

725 Alma St
Palo Alto, CA 94301
(650) 321-0709

LEGEND AND NOTES
MECHANICAL

Job# 1778
Scale: AS NOTED

M0.1

FAN SCHEDULE														
TAG	MANUFACTURER MODEL	TYPE	DRIVE	SERVICE	FAN			MOTOR (HP)	VOLTS	VIBRATION ISOLATION	CONTROLS	WEIGHT (LBS)	SOUND (DONES)	REMARKS
					CFM	ESP	HP							
ET-1	PANASONIC FV-05-11K1 PLUS FV-VS15K1 SPEED MODULE	CEILING	DIRECT	UNIT BATHS	40-80	0.25	-	11 WATTS	120/1	NEOPRENE PAD	CONTINUOUS	15	0.4	NOTES #1,2
ET-2	PANASONIC OR FV-0510V51	CEILING	DIRECT	SINGLE TOILET	75	0.25	-	22 WATTS	120/1	NEOPRENE PAD	LIGHT SWITCH	15	1.0	NOTES #1
ET-3	COOK CPV	UTILITY	BELT	FRESH ROOM EXHAUST	740	0.5	-	-	120/1	SPRING ISOLATORS	CONTINUOUS	-	-	NOTES #7
ET-4	COOK GC	CEILING	DIRECT	CORRIDOR EXHAUST	80	0.25	-	-	120/1	NEOPRENE PAD	CONTINUOUS	-	-	NOTES #4
ET-4	COOK GC	CEILING	DIRECT	CORRIDOR EXHAUST	150	0.25	-	-	120/1	NEOPRENE PAD	CONTINUOUS	-	-	NOTES #4
SF-1	AIR RING CFAM	INLINE	DIRECT	UNIT O.A. FAN	60-120	0.25	-	30 WATTS	120/1	NEOPRENE PAD	CONTINUOUS	20	-	NOTES #6, APT UNITS
SF-2	COOK SOKSFB	INLINE	BELT	CORRIDOR SUPPLY	1050	0.75	1121	0.5	120/1	SPRING ISOLATORS	CONTINUOUS	150	6/464	NOTES #3
SF-3	COOK CPV	UTILITY	BELT	TRASH ROOM SUPPLY	200	0.5	-	-	120/1	SPRING ISOLATORS	CONTINUOUS	-	-	NOTES #7

- NOTES:
- ENERGY STAR CERTIFIED. COMPLETE WITH BACKDRAFT DAMPER AND GRILLE.
 - PROVIDE WITH MULTI-SPEED WITH TIME DELAY AND MOTION SENSOR FOR CONTINUOUS OPERATION AT LOW SPEED. PROVIDE DEDICATED CIRCUIT WITH LABEL TO READ: NO FAULTS SHALL NOT TURN OFF WHILE THE UNIT IS OCCUPIED.
 - PROVIDE WITH BACKDRAFT DAMPER, MERV 8 FILTER, AND SPEED CONTROLLER.
 - PROVIDE WITH BACKDRAFT DAMPER.
 - NOT USED.
 - OUTSIDE AIR SUPPLY FAN WITH FILTER HOUSING AND MERV-8 AIR FILTER. PROVIDE SPEED CONTROLLER TO BALANCE AIR FLOW PER UNIT VENTILATION REQUIREMENT. FAN TO RUN 24/7. PROVIDE OVERVOLT SWITCH IN CLOSET WITH LABEL TO READ "FAN SHALL NOT TURN OFF WHILE UNIT IS OCCUPIED".
 - FULY WELDED STEEL CONSTRUCTION. PROVIDE WITH ISOLATION PAWS, SPRING ISOLATORS, AND MOTOR COVER.

DX FAN COIL SCHEDULE																				
TAG	MANUFACTURER MODEL	TYPE	RIVAL CAPACITY (TONS)	FRICTION			COOLING			HEATING			ELECTRICAL			VIBRATION ISOLATION	CONTROLS	WEIGHT (LBS)	O&A (CFM)	REMARKS
				CFM	ESP	BHP	TOTAL (MBH)	SEER (EER)	HEAT PUMP (MBH)	ELEC (KWH)	MCA	MOCP	VOLTS							
FC-1	DAIKIN	DUCTLESS	3.0	-	-	-	-	75/43	-	-	-	-	-	-	NEOPRENE ISOLATORS	THERMOSTAT	-	-	NOTES #1,2,3 APT. UNITS	
FC-2	DAIKIN MULTIZONE	DUCTLESS	1.5	-	-	-	-	75/43	-	-	-	-	-	NEOPRENE ISOLATORS	THERMOSTAT	-	-	NOTES #1,2,3 APT. UNITS		
FC-3	DAIKIN MULTIZONE	DUCTLESS	3.0	-	-	-	-	75/43	-	-	-	-	-	NEOPRENE ISOLATORS	THERMOSTAT	-	-	NOTES #1,2,3 APT. UNITS		

- NOTES:
- PROVIDE UNIT COMPLETE WITH EC MOTOR, FACTORY INSTALLED 3V, INSULATED ENCLOSURE, SOLID ADDRESS PANEL, HEAT PUMP KIT, ENCLOSURE "CAP KIT" FOR ABOVE CEILING INSTALLATION CONDENSATE OVERFLOW SWITCH.
 - PROVIDE WITH 7-DAY PROGRAMMABLE THERMOSTAT WITH TIME DELAY RELAY, WIRELESS CONNECTIVITY - TITLE-24 COMPLIANT. THERMOSTAT NEST SMART THERMOSTAT.
 - PROVIDE UNIT WITH FACTORY INSTALLED, SINGLE CIRCUIT ELECTRIC HEATER.

HEAT PUMP SCHEDULE															
TAG	MANUFACTURER MODEL	SERVISE	RIVAL CAPACITY (TONS)	COOLING			HEATING			ELECTRICAL			VIBRATION ISOLATION	WEIGHT (LBS)	REMARKS
				TOTAL (MBH)	EER (EER)	SEER (EER)	TOTAL (MBH)	EER (EER)	COE (EER)	MCA	MOCP	VOLTS			
HP-1	DAIKIN	FC-1	-	-	-	-	-	-	-	-	-	208/1	SPRING ISOLATOR	-	NOTES #2
HP-2	DAIKIN	FC-2	-	-	-	-	-	-	-	-	-	208/1	SPRING ISOLATOR	-	NOTES #2
HP-3	DAIKIN	FC-2	-	-	-	-	-	-	-	-	-	208/1	SPRING ISOLATOR	-	NOTES #2

- NOTES:
- PROVIDE UNIT WITH CRANKCASE HEATER, START ASSET, LIQUID LINE SOLENOID VALVE AND LONG LINE APPLICATION KIT.
 - INDOOR UNITS RECEIVE POWER FROM OUTDOOR UNITS THROUGH FIELD SUPPLIED INTERCONNECTED WIRING.

DX FAN COIL SCHEDULE																				
TAG	MANUFACTURER MODEL	TYPE	RIVAL CAPACITY (TONS)	FRICTION			COOLING			HEATING			ELECTRICAL			VIBRATION ISOLATION	CONTROLS	WEIGHT (LBS)	O&A (CFM)	REMARKS
				CFM	ESP	BHP	TOTAL (MBH)	SEER (EER)	HEAT PUMP (MBH)	ELEC (KWH)	MCA	MOCP	VOLTS							
CFE-1	CARRIER 40MA0318B--E	DUCTLESS HI-WALL	1.5	423	-	0.76 AMP	16/14.4	80/43	-	-	-	1	SEL CU	208/1	-	THERMOSTAT	30	-	NOTES #1 ELEV MACHINE ROOM	

- NOTES:
- PROVIDE UNIT WITH WIRE, WALL-MOUNTED PROGRAMMABLE CONTROLLER AND MFC-CONDENSATE PUMP. UNIT POWERED FROM OUTDOOR UNIT.

CONDENSING UNIT SCHEDULE															
TAG	MANUFACTURER MODEL	SERVICE	RIVAL CAPACITY (TONS)	COOLING			HEATING			ELECTRICAL			VIBRATION ISOLATION	WEIGHT (LBS)	REMARKS
				TOTAL (MBH)	EER (EER)	SEER (EER)	TOTAL (MBH)	EER (EER)	COE (EER)	MCA	MOCP	VOLTS			
CU-1	CARRIER 30MA0318B--3	CFD-1 ELEV. MACH RM	1.5	18	93	20 SEER	18	25	208/1	NEOPRENE PAD	120	120	120	NOTES #1	

- NOTES:
- INVERTER COMPRESSOR, OUTDOOR UNIT POWERS INDOOR UNIT.

MAKE-UP AIR UNIT SCHEDULE															
TAG	MANUFACTURER MODEL	FRICTION			HEATING			ELECTRICAL			VIBRATION ISOLATION	CONTROLS	WEIGHT (LBS)	REMARKS	
		CFM	ESP	MOTOR (HP)	HP (EER)	DEPT (EER)	EXH (EER)	ELEC (KWH)	MCA	MOCP					VOLTS
AHU-1	BEZAR RMH-175	3000	1.0	2	175	145.75	2	31/72	0.75	15	208/3	2750	EX	1000	NOTES: 1, 2, 3, 4 100% O.A.

- NOTES:
- PROVIDE UNIT WITH MERV-8 FILTER, GAS CONTROL ELECTRONIC MODULATION W/SOFT SENS & OVRD STAT, DISCONNECT SWITCH WEATHER +000, THERMOSTAT-7DAY PROGRAMMABLE, LOCKING THERMOSTAT COVER, HINGED ACCESS DOORS.
 - PROVIDE VIBRATION ISOLATOR WITH 2" STATIC DEFLECTION.
 - SMOKE DETECTORS ARE REQUIRED INSTALLED BY MECHANICAL. PROVIDED AND WIRING BY ELECTRICAL. INTERLOCK WIRING FROM SMOKE DETECTION TO UNIT BY ELECTRICAL.
 - PROVIDE WEATHER RAIN SHIELD FOR EXPOSED DUCT SMOKE DETECTOR.

AIR TERMINAL SCHEDULE					
TAG	MANUFACTURER MODEL	GRID DAMPER	FRAME	DESCRIPTION	NOTES
CD WSA	SHOEMAKER 950	YES	SURFACE	ALUMINUM ADJUSTABLE REGISTER WITH AIRFOIL BLADES	#1,2
FD	SHOEMAKER 935-FG-1	NO	SURFACE	STEEL, 45°, IRREGULARLY WELDED TIGED HORIZONTAL BLADES, 3" FILTER WITH TOP HINGE AND LATCH SYSTEM	#1,2,3
CD1	TITUS TDC	NO	#4	STEEL, LOUVERED CEILING DIFFUSER WITH REMOVABLE CORE. PROVIDE FILTER PANEL FOR T-BAR CEILING	#1,2
CFR TG R2	TITUS 50F	NO	LAY-IN/ SURFACE	ALUMINUM EGGRATIC GRILLE WITH 1/2"X1/2"X1" DEEP CORE. PROVIDE WITH FILTER PANEL FOR T-BAR CEILING	#1,2
WSR1	TITUS 300RS	YES	EXPOSED DUCT	STEEL DOUBLE DEFLECTION SUPPLY GRILLE WITH 3/4" BLADE SPACING. FRONT BLADES PARALLEL TO SHORT DIMENSION	#1,2
CR2 WRG1	TITUS 350RL	YES	EXPOSED DUCT	STEEL RETURN GRILLE, 35° DEFLECTION. BLADES PARALLEL TO LONG DIMENSION	#1,2

- NOTES:
- SIZE SHOWN ON PLAN IN NECK DIMENSIONS. PROVIDE DUCT ADAPTER AS REQUIRED. WHITE FINISH.
 - PROVIDE SQUARE TO ROUND ADAPTER AS REQUIRED.
 - PROVIDE 3 SETS OF FILTERS, ONE AT INSTALLATION, ONE DURING CONSTRUCTION, AND ONE AT TURN OVER.
 - PROVIDE VOLUME DAMPER IN BRANCH DUCT.

MISC EQUIPMENT SCHEDULE			
TAG	ITEM	MANUFACTURER MODEL	REMARKS
FSD	RECTANGULAR FIRE/SMOKE DAMPER	RUSKIN FSD 36	1-1/2 HOUR VERTICAL OR HORIZONTAL COMBUSTION FIRE SMOKE DAMPER WITH ELECTRIC FUSE LINK, ACTUATOR, TEST SWITCH, FACTORY SLEEVE, DUCT SMOKE DETECTOR BY ELECTRICAL.
FSD	ROUND FIRE/SMOKE DAMPER	RUSKIN FSD25	1-1/2 HOUR VERTICAL OR HORIZONTAL COMBUSTION FIRE SMOKE DAMPER WITH ELECTRIC FUSE LINK, ACTUATOR, FACTORY SLEEVE, DUCT SMOKE DETECTOR BY ELECTRICAL.
FSD	GRILLE ACCESS FIRE/SMOKE DAMPER	RUSKIN FSD60PA-BL	1-1/2 HOUR GRILLE ACCESS COMBINATION FIRE/SMOKE DAMPER WITH ELECTRIC FUSE LINK, ACTUATOR, FACTORY SLEEVE, 3-POSITION ACTUATOR FOR AIRFLOW BALANCING, DUCT SMOKE DETECTOR BY ELECTRICAL.



CIVIL ENGINEER
Luk and Associates
738 Almond Drive
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510.724.3388

STRUCTURAL ENGINEER
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San Francisco, CA 94105
415.669.5322

MEP ENGINEER
FARD Engineers
309 Lennon Lane # 200
Walnut Creek, CA 94598
925.932.5555

LANDSCAPE ARCHITECT
Hill Associates
100 Oakdale Drive
Ayala, CA 94503
408.761.3164



ID	DATE	NAME
	12-22-13	PRELIMINARY DRAWING
	02-13-16	100% SD

Project:
950 W EL CAMINO REAL

950 W EL CAMINO REAL
MOUNTAIN VIEW, CA 94040

Client:

PALO ALTO HOUSING

725 Alma St
Palo Alto, CA 94301
(650) 321-9709

SCHEDULES
MECHANICAL

Job#: 1779

Scale: AS NOTED

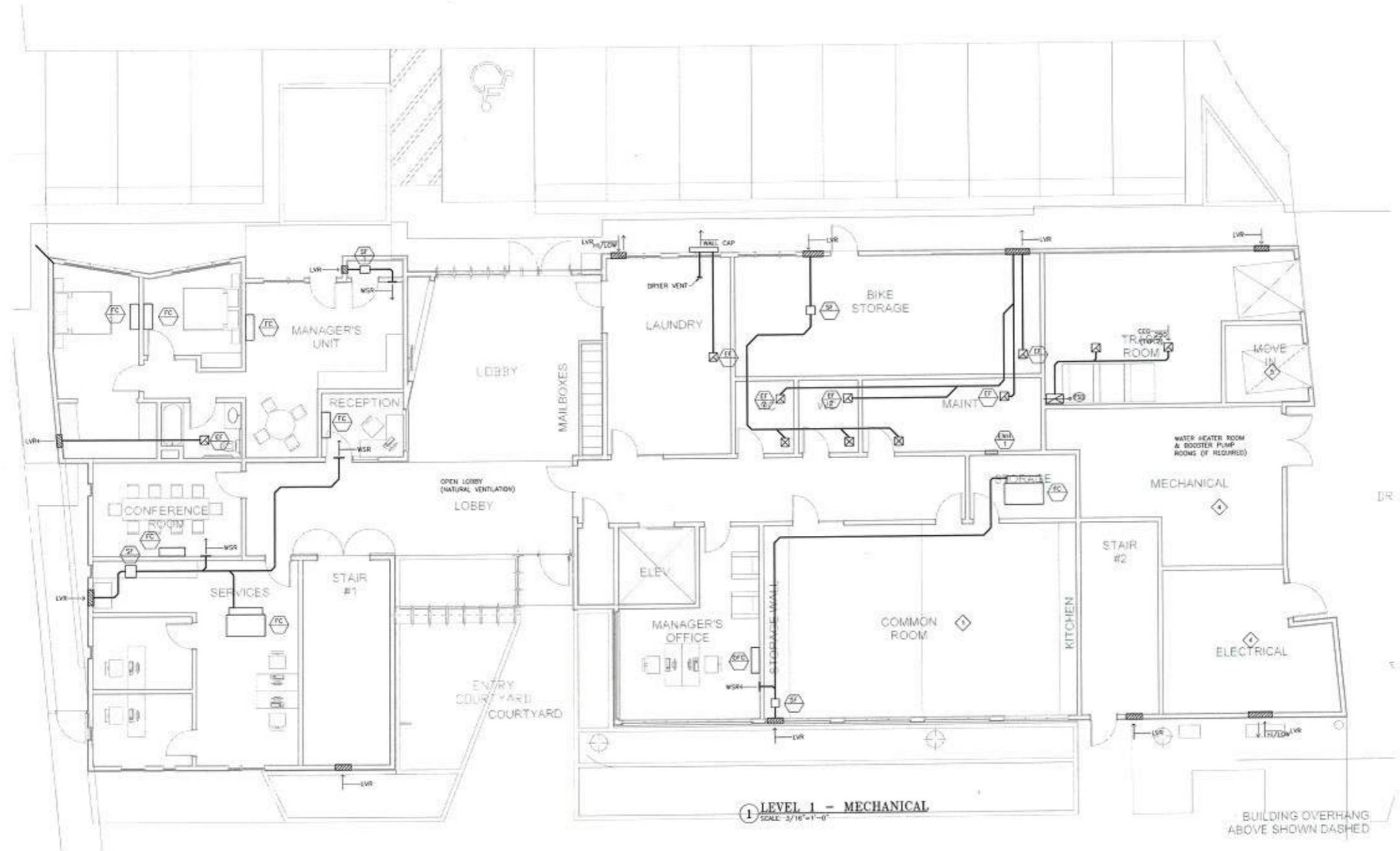
M0.2

SHEET NOTES:

- 1 PROVIDE SPLIT SYSTEM HEAT PUMP, MITSUBISHI PEAQ/PLU2 SYSTEM, CONDENSED FAN COIL UNIT, DUCT DISTRIBUTION AND TRIM. PROVIDE VENTILATION OUTSIDE SUPPLY AIR FAN AND TRIM.
- 2 PROVIDE DUCTLESS SPLIT HEAT PUMP AND VENTILATION (VENTILATION MAY BE SUPPLIED BY ADJACENT SPACE DUCTED SYSTEM).
- 3 PROVIDE MECHANICAL VENTILATION AND MAKE UP AIR.
- 4 PROVIDE GRAVITY HIGH LOW WALL LOUVERS.
- 5 PRE-MANUFACTURED WARM ROOM PACKAGE UNIT, MORLAKE OR EQUAL, TEMPERATURE CONTROL ROOM, MAINTAIN ROOM TEMPERATURE OF 125 DEGREE OR HIGHER, 206V/1PHASE 20AMP.



- CIVIL ENGINEER
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730 Silver Hill Drive
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916-724-3388
- STRUCTURAL ENGINEER
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San Francisco, CA 94105
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925-932-5505
- LANDSCAPE ARCHITECT
Hill Associates
100 Cascade Drive
Aptos, CA 95027
408-761-3184



LEVEL 1 - MECHANICAL
SCALE: 3/16"=1'-0"

BUILDING OVERHANG ABOVE SHOWN DASHED

ID	DATE	NAME
	12-22-11	PRELIMINARY DRAWING
	02-13-12	100% SD

Project:
950 W EL CAMINO REAL
MOUNTAIN VIEW, CA 94040

Client:
PALO ALTO HOUSING
725 Alma St
Palo Alto, CA 94301
(855) 321-9709

**LEVEL 1
MECHANICAL**

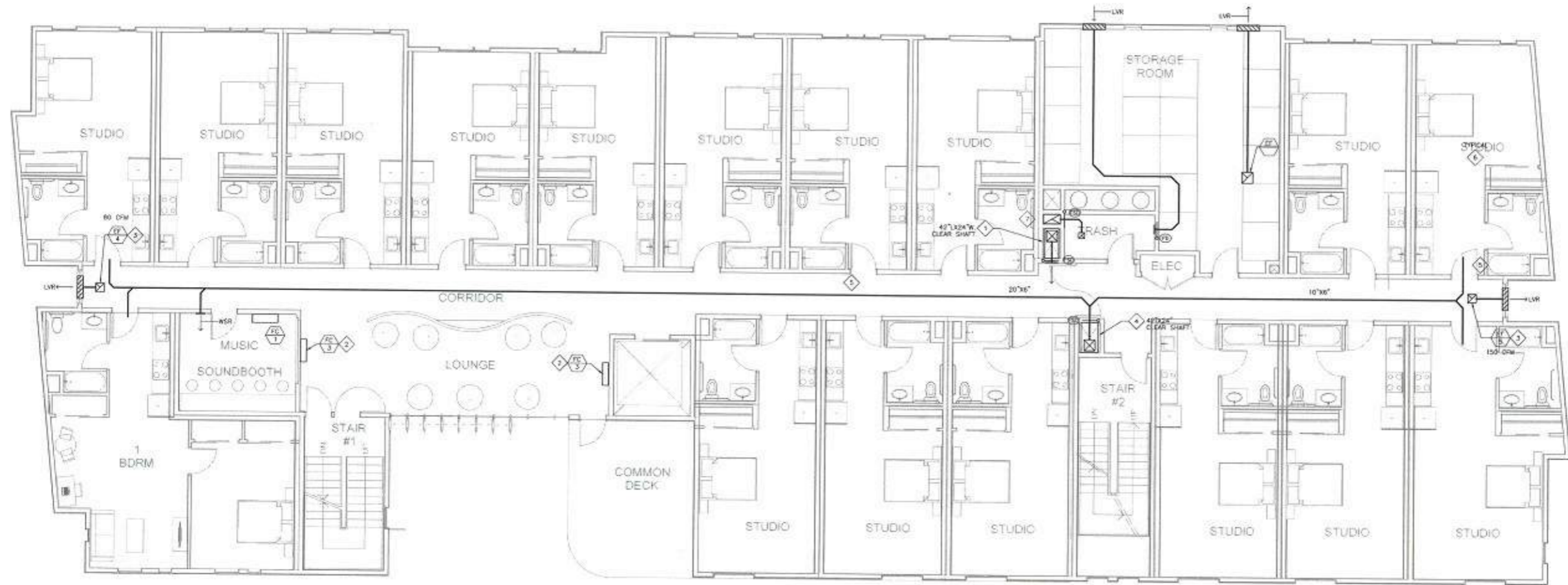
Job# 1779
Scale: AS NOTED
M2.1

SHEET NOTES:

- 1 CORRIDOR VENTILATION DUCT RISER TO SERVE EACH FLOOR. UP TO ROOF TOP OUTSIDE AIR SUPPLY FAN. PROVIDE FIRE/SMOKE DAMPER @ WALL REGISTER @ EACH FLOOR.
- 2 PROVIDE SPLIT SYSTEM VRF SYSTEM WITH SINGLE HEAT RECOVERY UNIT ON ROOF TO SERVE DUCTLESS WALL FAN COIL UNITS ON EACH FLOOR.
- 3 CEILING EXHAUST FAN IN DROP CEILING.
- 4 APARTMENT UNIT VENTILATION DUCT RISER UP TO ROOF TOP AIR HANDLING UNIT WITH GAS FIRED HEATING TO TEMPER OUTSIDE AIR.
- 5 MINIMUM 20GA SHEET METAL DUCT PROVIDE FIRE STOP AT PENETRATION INTO EACH UNIT. TYPICAL.
- 6 PROVIDE SPLIT SYSTEM HEAT PUMP DUCTLESS WALL MOUNTED FAN COIL. HEAT PUMP LOCATED ON ROOF OR ON GRADE WHERE FEASIBLE.
- 7 TRASH ROOM VENTILATION EXHAUST & MAKE UP AIR SHAFT.

- CIVIL ENGINEER
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650-724-3388
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San Francisco, CA 94105
415-699-5322
- MEP ENGINEER
FARD Engineers
309 Lennon Lane # 200
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925-932-9305
- LANDSCAPE ARCHITECT
Hill Associates
100 Decade Drive
Aliso Viejo, CA 92603
949-761-5384

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www.fard.com • 925 932-9305
309 Lennon Lane
Suite 200
Walnut Creek, CA 94598



1 LEVEL 2 - MECHANICAL (HVAC FLOORS 3,4,5 IS SIMILAR)
SCALE: 3/16"=1'-0"

NOTE:
HVAC WORK FOR 3RD, 4TH & 5TH FLOOR IS SIMILAR

DATE	NAME
12-22-17	PRELIMINARY DRAWING
02-13-18	100% SD

Project:

950 W EL CAMINO REAL

950 W EL CAMINO REAL
MOUNTAIN VIEW, CA 94040

Client:

PALO ALTO HOUSING

725 Alma St
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(650) 321-0709

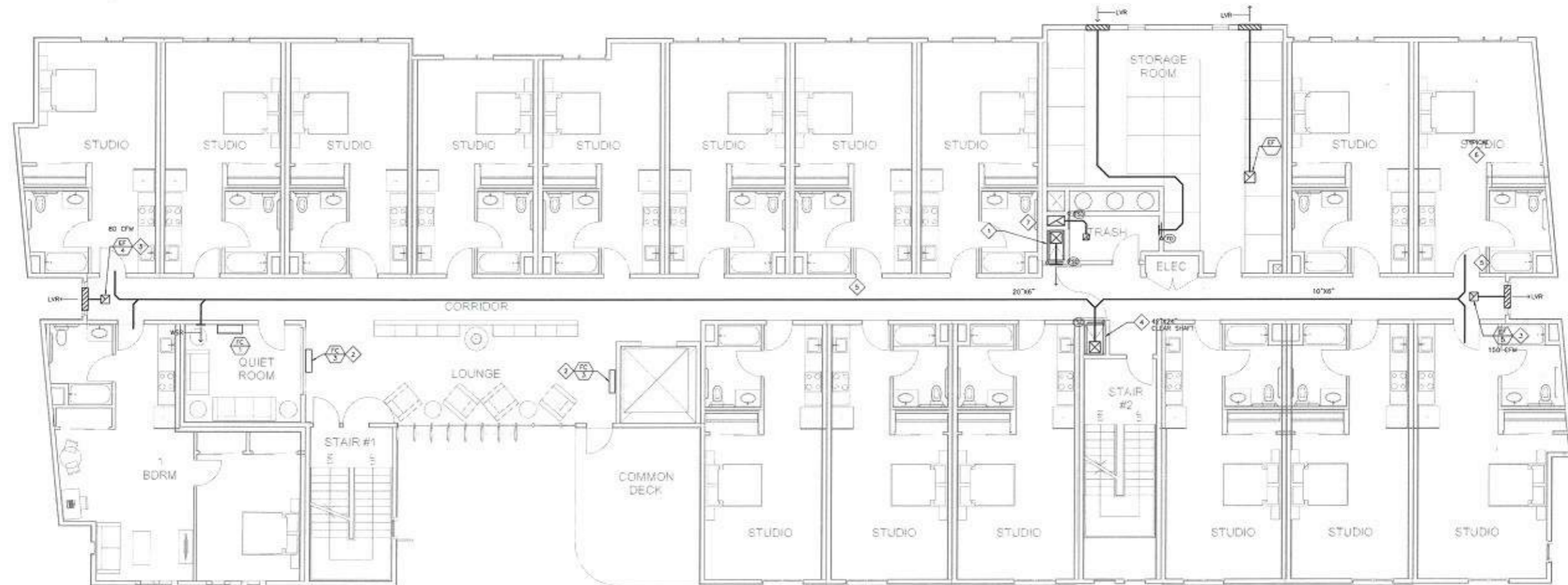
**LEVEL 2
MECHANICAL**

Job# 1779
Scale: AS NOTED

M2.2

- CIVIL ENGINEER
Luk and Associates
738 Alfred Nobel Drive
Berkeley, CA 94547
510-726-0388
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FARD Engineers
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925-832-5505
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Albany, CA 94021
405-751-3164

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① LEVEL 3 - MECHANICAL
SCALE: 3/16"=1'-0"
NOTE:
[DWG WORK FOR 4TH, & 5TH FLOOR IS
SIMILAR]

ID	DATE	NAME
	12-22-17	PRELIMINARY DRAWING
	02-13-18	100% SD

Project
950 W EL CAMINO
REAL

950 W EL CAMINO REAL
MOUNTAIN VIEW, CA 94040

Client
PALO ALTO
HOUSING

725 Alma St
Palo Alto, CA 94301
(650) 321-9709

**LEVEL 3
MECHANICAL**

Job#: 1779
Scale: AS NOTED

M2.3

SHEET NOTES:

- 1 APARTMENT UNITS VENTILATION AIR HANDLING UNIT WITH GAS FIRED HEATER
- 2 CORRIDOR VENTILATION SUPPLY FAN
- 3 APARTMENT UNIT HEAT PUMP SAMPLE LAY-OUT IS SHOWN FOR REFERENCE

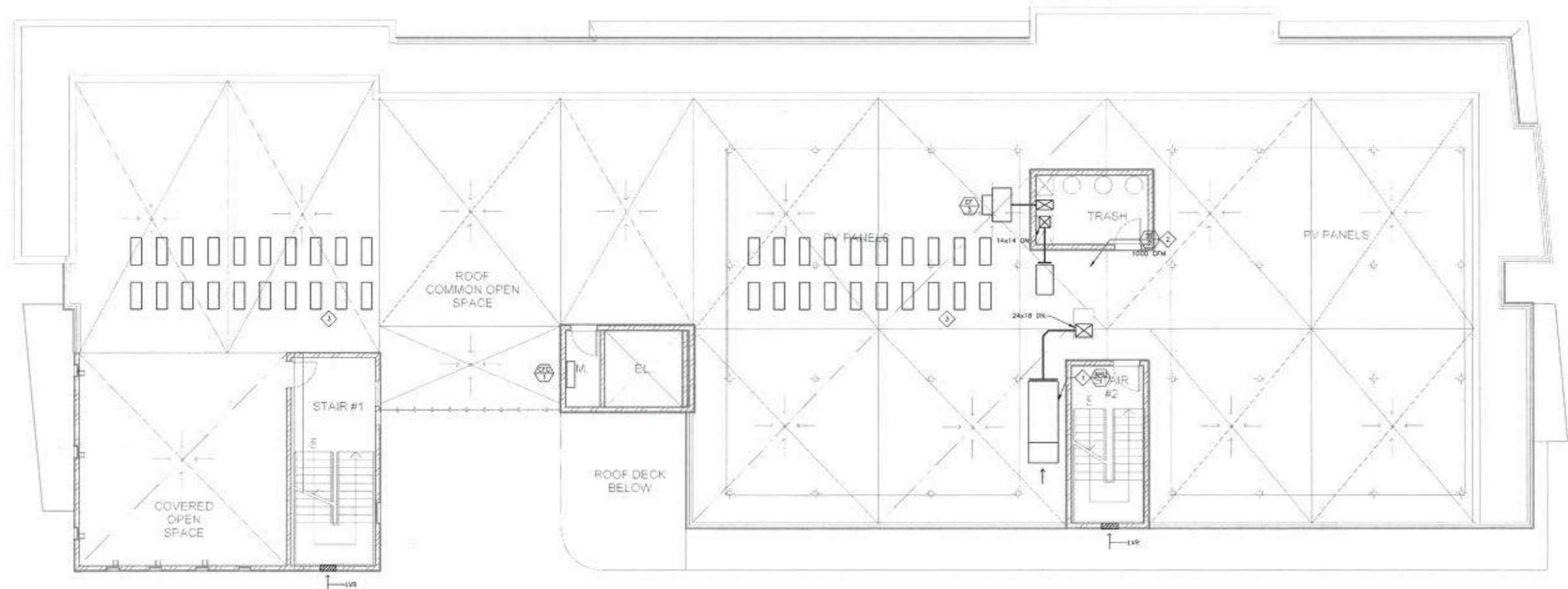
**VAN METER
WILLIAMS
POLLACK**

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1 ROOF PLAN - MECHANICAL
SCALE: 3/16"=1'-0"

ID	DATE	NAME
	12-22-17	PRELIMINARY DRAWING
	06-13-18	100% SD

Project:

950 W EL CAMINO REAL

950 W EL CAMINO REAL
MOUNTAIN VIEW, CA 94040

Client:

PALO ALTO HOUSING

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ROOF PLAN
MECHANICAL

Job#: 1779
Scale: AS NOTED

M2.6

CIVIL ENGINEER
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650-321-9709

STRUCTURAL ENGINEER
Murphy Burr Curry, Inc.
85 Second Street, Suite 501
San Francisco, CA 94105
415-668-9322

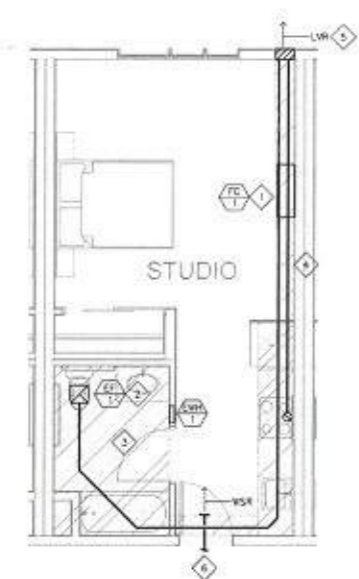
MEP ENGINEER
FARD Engineers
309 Lennon Lane # 200
Walnut Creek, CA 94598
925-932-5505

LANDSCAPE ARCHITECT
Hill Associates
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Agree, CA 94003
408-751-3184

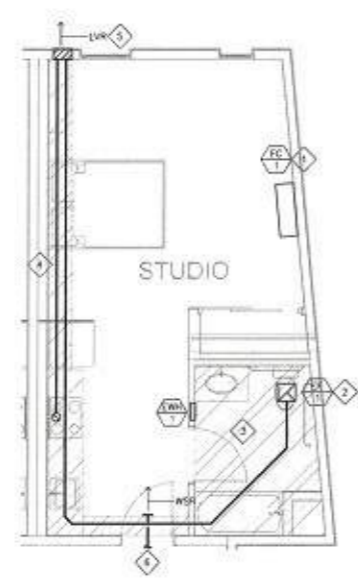
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SHEET NOTES:

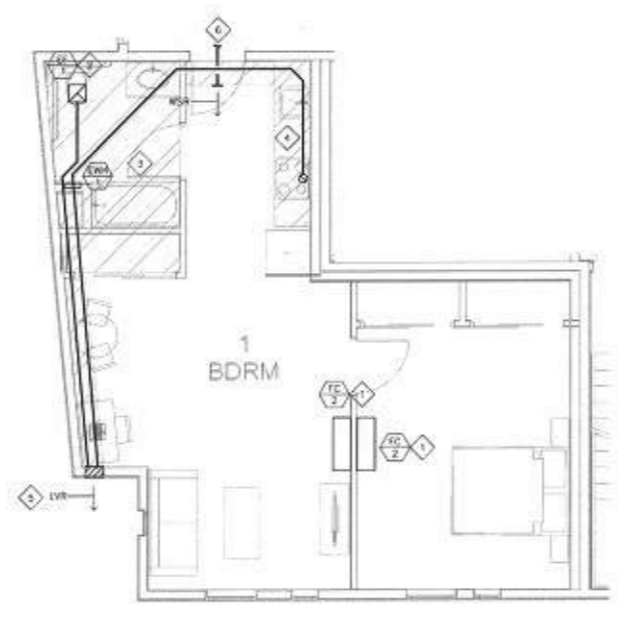
- 1 DUCTLESS, WALL MOUNTED SPLIT SYSTEM HEAT PUMP, MITSUBISHI OR EQUIV. R2000 REFRIGERANT LINE SETS TO HEAT PUMPS ON ROOM.
- 2 EXHAUST FAN IN DROPPED CEILING.
- 3 DUCTWORK IN DROP SOFFIT/CEILING.
- 4 26 GA KITCHEN EXHAUST DUCT.
- 5 EXHAUST VENT LOUVER LOCATED MINIMUM 3'-0" FROM OPERABLE WINDOWS, DOORS AND INTAKES TO BUILDING. WHERE MULTIPLE VENTS ARE LOCATED ADJACENT TO ONE ANOTHER, PROVIDE ONE COMMON VENT CAP, SEE DETAILS FOR VENT CAP.
- 6 VENTILATION AIR FROM CORRIDOR SUPPLY DUCT. SET FLOOR PLANS FOR CONTINUATION.



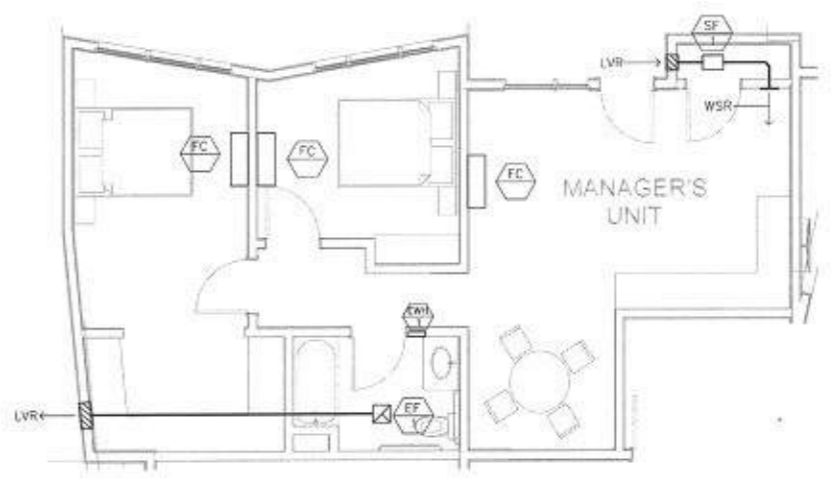
1 STUDIO
SCALE: 1/4"=1'-0"



2 STUDIO
SCALE: 1/4"=1'-0"



3 1-BR
SCALE: 1/4"=1'-0"



4 MANAGER'S UNIT
SCALE: 1/4"=1'-0"

ID	DATE	NAME
	12-22-11	PRELIMINARY DRAWING
	02-13-12	100% CD

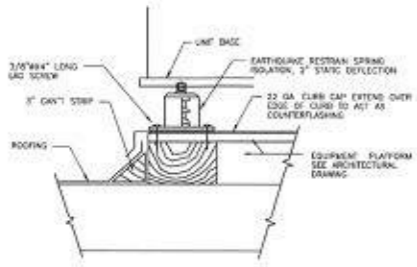
Project
950 W EL CAMINO REAL
REAL

950 W EL CAMINO REAL
MOUNTAIN VIEW, CA 94040

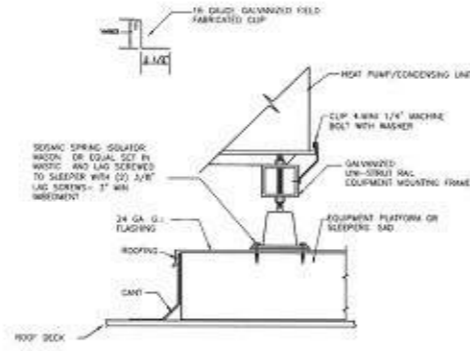
Client
PALO ALTO HOUSING
725 Alma St
Palo Alto, CA 94301
(650) 321-9709

UNIT PLANS
MECHANICAL

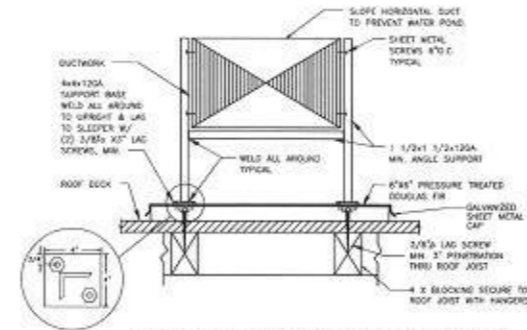
Job#: 1779
Scale: AS NOTED



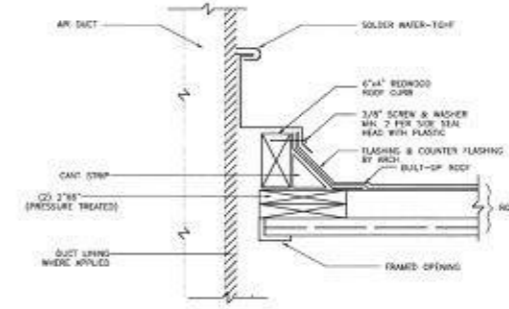
1 Roof Equipment (AHU/EP) Support Detail
NOT TO SCALE



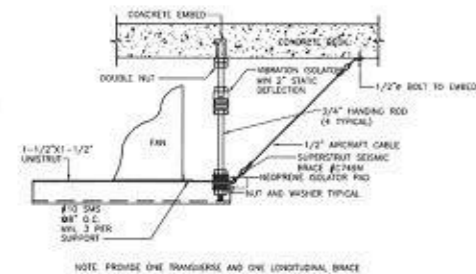
2 HEAT PUMP EQUIPMENT RAIL SUPPORT DETAIL
NOT TO SCALE



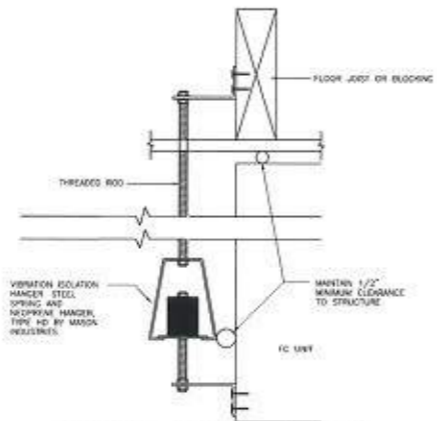
3 ROOF MOUNTED DUCTWORK SUPPORT
NOT TO SCALE



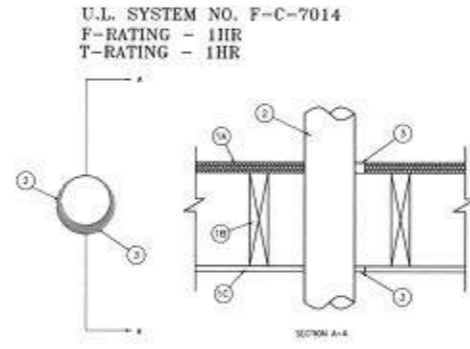
4 Duct Thru Roof Detail
NOT TO SCALE



5 SUSPENDED FAN DETAIL
SCALE: NO SCALE

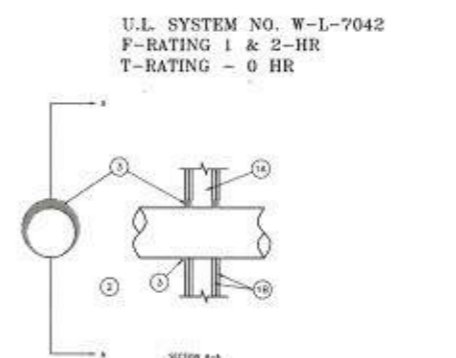


6 FAN COIL Unit Support Detail
NOT TO SCALE



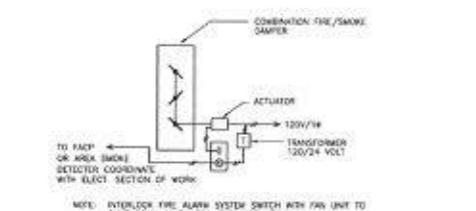
1. FLOOR - CEILING ASSEMBLY - The 1 HR FIRE-RATED WOOD JOIST FLOOR-CEILING ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL 1500 DESIGNS IN THE U.L. FIRE RESISTANCE DIRECTORY, AS SUMMARIZED BELOW.
 A. FLOORING SYSTEM - LAMBER OR PLYWOOD SUBFLOOR WITH FINISH FLOOR OF LAMBER, PLYWOOD OR FLOOR FINISHING MATERIALS AS SPECIFIED IN THE INDIVIDUAL FLOOR-CEILING DESIGN.
 B. WOOD JOISTS - MIN 20 IN. DEEP (OR EQUIV.) LAMBER, STEEL OR COMBINATION LAMBER AND STEEL JOISTS, TRUSSES OR STRUCTURAL WOOD MEMBERS WITH BRACING AS REQUIRED AND WITH DEEP FRAGILES.
 C. GIPSON BOARD - THICKNESS, TYPE, NUMBER OF LAYERS AND FASTENERS AS REQUIRED IN THE INDIVIDUAL FLOOR-CEILING DESIGN. DIM OF OPENING IS TO BE MAX 1 IN. LARGER THAN DIM OF STEEL DUCT.
 D. CHASE WALL - (OPTIONAL, NOT SHOWN) - THE THROUGH PENETRANT (ITEM 2) MAY BE ROUTED THROUGH A 1 HR FIRE RATED SINGLE SOLUBLE OR SMOOVED WOOD STUD/PLYWOOD BOARD CHASE WALL. DEPTH OF CHASE WALL/VOID CAVITY TO BE MIN 1/2 IN. GREATER THAN DIAMETER OF OPENING CUT IN SOLE AND TOP PLATES TO ACCOMMODATE THE THROUGH PENETRANT (ITEM 2). THE CHASE WALL SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL URBAN SERIES WALL AND PARTITION DESIGN. IN THE U.L. FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
 A. STUDS - MIN 2 BY 4 IN. 2 BY 4 IN. OR DOUBLE ROW 2 BY 4 IN. LAMBER STUDS.
 B. SOLE PLATE - MIN 2 BY 4 IN. 2 BY 4 IN. OR PARALLEL 2 BY 4 IN. LAMBER PLATES.
 C. TOP PLATE - THE TOP PLATE SHALL BE MIN 1 IN. LARGER THAN DIM OF STEEL PIPE, 2 BY 4 IN. OR TWO SETS OF PARALLEL, 2 BY 4 IN. LAMBER PLATES, TIGHTLY BUTTED. DIM OF OPENING IS TO BE MAX 1 IN. LARGER THAN DIM OF STEEL DUCT.
 D. GIPSON BOARD - THICKNESS, TYPE, NUMBER OF LAYERS AND FASTENERS SHALL BE AS SPECIFIED IN THE INDIVIDUAL WALL AND PARTITION DESIGN.
 2. STEEL DUCT - ONE ROW 4 IN. DIA. (OR SMALLER) NO. 20 GA. (OR HEAVIER) STEEL DUCT OR ONE ROW 10 IN. DIA. (OR SMALLER) NO. 16 GA. (OR HEAVIER) STEEL DUCT TO BE INSTALLED UPON CONCENTRICALLY OR ECCENTRICALLY WITHIN THE OPENING. ANNUAL SPACE TO BE MIN 0 IN. (POINT CONTACT) TO MAX 1 IN. STEEL DUCT TO BE ROUGHLY SUPPORTED ON BOTH SIDES OF FLOOR-CEILING ASSEMBLY.
 3. FILL VOID OR CAVITY MATERIAL - SEALANT - MIN 3/4 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH THE TOP SURFACE OF THE FLOOR OR SOLE PLATE. MIN 5/8 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH BOTTOM SURFACE OF CEILING OR TOP PLATE. MIN 1/4 IN. DIA. BEAD OF FILL MATERIAL APPLIED AT POINT CONTACT LOCATION ON THE TOP SURFACE OF FLOOR OR CHASE WALL. SOLE PLATE AND AT THE PENETRANT/CEILING OR CHASE WALL TOP PLATE INTERFACE.
 *SPECIFIED TECHNOLOGIES INC. - UNIVERSAL LP SEALANT
 *BEARING THE U.L. CLASSIFICATION MARK
 NOTE: U.L. SYSTEM NO. F-C-7014 FOR 1-HR "F" RATING AND 1-HR "T" RATING

DETAIL IS SHOWN FOR REFERENCE REFER TO ARCHITECTURAL DWG SHEET ASD-3 FOR PENETRANT DETAIL.

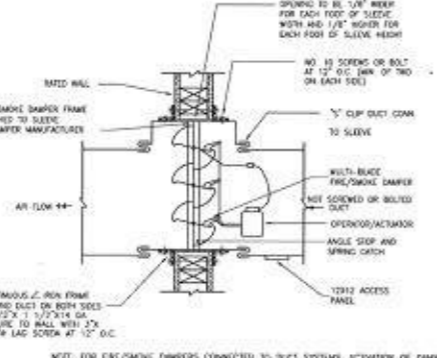


1. WALL ASSEMBLY - The 1 OR 2 HR FIRE RATED WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL URBAN OR LUGO SERIES WALL AND PARTITION DESIGN. IN THE U.L. FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
 A. STUDS - WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STEEL. WOOD STUDS TO CONSIST OF MIN 2 BY 4 IN. LAMBER SPACED 16 IN. O.C. STEEL STUDS TO BE MIN 2-1/2 IN. WIDE AND SPACED 24 IN. O.C.
 B. GIPSON BOARD - FOR 1 HR ASSEMBLY, ONE LAYER OF MIN 5/8 IN. THICK WALLBOARD AS REQUIRED IN THE INDIVIDUAL WALL AND PARTITION DESIGN. FOR 2 HR ASSEMBLY, TWO LAYERS OF MIN 5/8 IN. THICK WALLBOARD AS REQUIRED IN THE INDIVIDUAL WALL AND PARTITION DESIGN. MAX DIM OF OPENING IS 14-1/2 IN. FOR WOOD STUD WALLS AND 21-3/4 IN. FOR STEEL STUD WALLS.
 2. THROUGH PENETRANT - ONLY STEEL DUCT TO BE INSTALLED CONCENTRICALLY OR ECCENTRICALLY WITHIN THE PENETRANT SYSTEM. THE ANNULAR SPACE BETWEEN THE DUCT AND PERIMETRY OF OPENING SHALL BE 0 IN. (POINT CONTACT) AND MAX 1-1/2 IN. DUCT TO BE ROUGHLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY.
 A. SPIRAL WOUND FIBC DUCT - MIN 20 IN. DIA. (OR SMALLER) NO. 28 MSG. (OR HEAVIER) GALV SHEET STEEL DUCT.
 B. FILL VOID OR CAVITY MATERIAL - SEALANT - MIN 5/8 IN. AND 1-1/4 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH BOTH SURFACES OF WALL ASSEMBLY FOR 1 OR 2 HR RATED WALLS, RESPECTIVELY. AT THE POINT CONTACT LOCATION BETWEEN DUCT AND WALLBOARD, A MIN 1/2 IN. DIA. BEAD OF SEALANT SHALL BE APPLIED AT THE WALLBOARD/DUCT INTERFACE ON BOTH SURFACES OF WALL ASSEMBLY.
 *MULTI CONSTRUCTION CHEMICALS, DIV OF HULT INC. - ONDUS ELASTOMERIC FIRESTOP SEALANT, FIRE-STOP SEALANT OR OTHER FLEXIBLE FIRESTOP SEALANT
 *BEARING THE U.L. CLASSIFICATION MARK
 NOTE: U.L. SYSTEM NO. W-L-7042 FOR 1 & 2 HR F-RATING AND 0 HR T-RATING

DETAIL IS SHOWN FOR REFERENCE REFER TO ARCHITECTURAL DWG SHEET ASD-3 FOR PENETRANT DETAIL.



7 Combination Fire / Smoke Damper Control
NOT TO SCALE



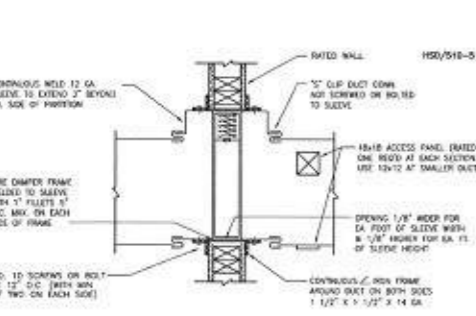
8 Fire / Smoke Damper
NOT TO SCALE



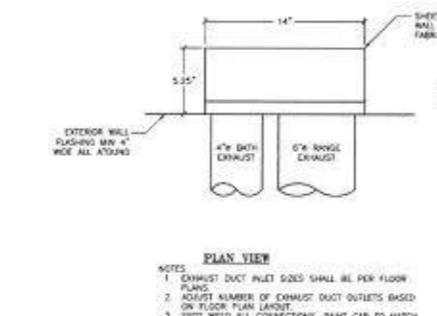
NOTE: FOR CEILING/ROOF ASSEMBLY PENETRATIONS, PROVIDE THE PENETRANT SYSTEM FIRE STOP AT CEILING MEMBRANE PENETRATION.



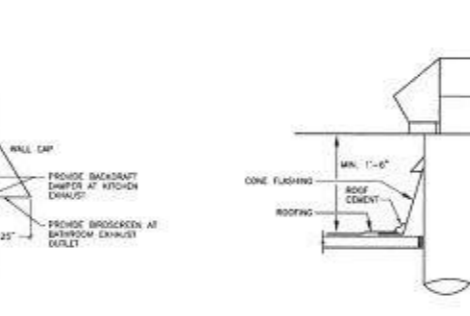
NOTE: FOR EXTERIOR WALL PENETRATIONS, PROVIDE THE PENETRANT SYSTEM SEALANT AT INTERIOR MEMBRANE PENETRATION ONLY.



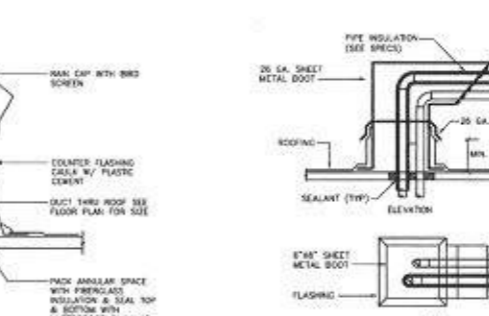
11 Fire Damper Detail
NOT TO SCALE



12 Exhaust Wall Cap
NOT TO SCALE



13 Duct Thru Roof Detail
NOT TO SCALE



14 Refrigeration Piping Thru Roof Detail
NOT TO SCALE

VAN METER WILLIAMS POLLACK LP
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 1700 Alameda Street, Suite 507
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DATE	NAME
12-22-11	PRELIMINARY DRAWING
03-10-18	10% SD

Project:
950 W EL CAMINO REAL

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DETAILS
 MECHANICAL

Job#: 1779
 Scale: AS NOTED

M5.1

PLUMBING SYMBOLS	
SYMBOL	DESCRIPTION
○	PIPING UP/STACK/RISER
—○—	PIPING DOWN
—	UNION
⊥	SHUT-OFF VALVE
⊕	GAS COCK
⊕	GAS PRESSURE REGULATOR
⊕	PRESSURE REDUCING VALVE
⊕	BALANCE VALVE
⊕	CHECK VALVE
⊕	MIXING VALVE
⊕	GAS CONNECTION
⊕	SPRINKLER RISER/VALVE IN BOX
⊕	FLOOR DRAIN
⊕	FLOOR SINK
⊕	FLOOR/GRADE CLEANOUT
⊕	CLEAN OUT/WALL CLEAN OUT
⊕	HOSE BIBB
⊕	PIPE SLOPE IN DIRECTION OF ARROW
⊕	CAP
⊕	SANITARY SEWER ABOVE GROUND/FLOOR
⊕	SANITARY SEWER BELOW GROUND/FLOOR
⊕	STORM SEWER ABOVE GROUND/FLOOR
⊕	STORM SEWER BELOW GROUND/FLOOR
⊕	GREASE WASTE BELOW FLOOR
⊕	COLD WATER
⊕	HOT WATER
⊕	HOT WATER RETURN
⊕	VENT
⊕	VENT BELOW FLOOR
⊕	CONDENSATE DRAIN
⊕	IRRIGATION

NOTE: THIS IS A STANDARD LIST OF COMMONLY USED PLUMBING SYMBOLS. SOME OF THE SYMBOLS SHOWN ABOVE MAY NOT HAVE BEEN USED IN THE DRAWING PACKAGE.

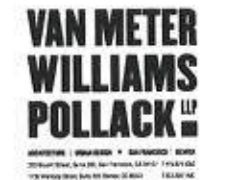
GENERAL SYMBOLS	
SYMBOL	DESCRIPTION
⊕	SHEET NOTE
⊕	EQUIPMENT CALLOUT
⊕	DETAIL REFERENCE
⊕	DETAIL CALLOUT
⊕	SECTION CALLOUT
⊕	POINT OF CONNECTION
⊕	REVISION TAG

ABBREVIATIONS			
ABC	ABOVE CEILING	LB	POUNDS
ABV	ABOVE	LWT	LEAVING WATER TEMPERATURE
AP	ACCESS PANEL	MAX	MAXIMUM
AC	AIR CONDITIONING UNIT	MHP	MAXIMUM HORSEPOWER
AF	ABOVE FINISHED FLOOR	MCA	MAXIMUM CURRENT AMPS
AFG	ABOVE FINISHED GRADE	MCC	MECHANICAL CONTROL CENTER
ARCH	ARCHITECTURAL	MCH	MECHANICAL
BEL	BELOW	MFR	MANUFACTURER
BF	BELOW FINISHED FLOOR	MIB	MECHANICAL INSULATION
BFS	BELOW FINISHED GRADE	MOC	MAXIMUM OVER CURRENT
BHP	BRAKE HORSEPOWER	MOP	MAXIMUM OVER CURRENT PROTECTION
BUDS	BUILDING	MPS	MECHANICAL PRESSURE (GAS)
BS	BOTTOM OF DUCT	MTO	MOUNTED
BTU	BRITISH THERMAL UNIT	N	NEW
BTU/H	BTU PER HOUR	NC	NORMALLY CLOSED
CD	CONDENSATE	NO	NORMALLY OPEN
CD	CLEANOUT	NTS	NOT TO SCALE
CD	CLEANOUT	PG	PRESSURE DROP
CONT	CONTINUATION	PH	PHASE
CONTR	CONTRACTOR	PLB	PLUMBING
CW	DOMESTIC COLD WATER	PRV	PRESSURE REDUCING VALVE
D	DROP	PS	POUNDS PER SQUARE INCH
DEG	DEGREES	POC	POINT OF CONNECTION
DN	DOWN	REF	REFRIGERATION
DWG	DRAWING	REQD	REQUIRED
E	EXISTING	RET	RETURN
EL	ELEVATION	RM	ROOM
ELEC	ELECTRIC/ELECTRICAL	RPM	REVOLUTIONS PER MINUTE
EQUIP	EQUIPMENT	RWL	RAINWATER LEADER
F	DEGREES FAHRENHEIT	SAD	SEE ARCHITECTURAL DRAWINGS
FC	FLEXIBLE CONNECTION	SAN	SANITARY SEWER
FCD	FLOOR CLEANOUT	SD	STORM DRAIN
FD	FLOOR DRAIN	SP	STATIC PRESSURE
FPE	FINISHED FLOOR ELEVATION	SPCC	SPRINKLER
FLA	FULL LOAD AMPS	SS	SANITARY SEWER
FL	FLOOR	SSD	SEE STRUCTURAL DRAWINGS
FP	FIRE PROTECTION	STD	STANDARD
FT	FEET PER MINUTE	STRUC	STRUCTURAL
FU	FIXTURE UNIT	SYM	SYMBOL
G	LOW PRESSURE GAS	TAP	TEMPERATURE AND PRESSURE
GA	GRADE	TC	TEMPERATURE
GD	GRADE CLEANOUT	TEMP	TEMPERATURE
GPM	GALLONS PER MINUTE	TYP	TYPICAL
GW	GREASE WASTE	US	UNDERGROUND
HC	HOT/COLD WATER RISER	UL	UNDERWRITERS' LABORATORIES
HP	HORSEPOWER	UN	UNLESS OTHERWISE NOTED
HT	HEIGHT	V	VENT
HTD	HEATING	VTR	VENT THROUGH ROOF
HVAC	HEATING VENTILATION AND AIR CONDITIONING	W	WITH
HW	DOMESTIC HOT WATER	W/O	WITHOUT
HWR	HOT WATER RETURN	W/C	WALL CLEANOUT
IE	INVERT ELEVATION	WFL	WATER FEATURE UNIT
IR	IN FURRED WALL	WT	WEIGHT
IRR	IRRIGATION	WV	WASTE/VENT RISER
KW	KILOWATT		

NOTE: THIS IS A STANDARD LIST OF COMMONLY USED ABBREVIATIONS. SOME OF THE ABBREVIATIONS SHOWN ABOVE MAY NOT HAVE BEEN USED IN THE DRAWING PACKAGE.

Hangers and Supports			
Material	Type of Hanger	Orientation	Terminal
Cable ties	Standard	Vertical	Steel and each 1/2 inch to 1/4 inch
Copper tube and pipe	Solid end	Horizontal	Each floor, each to support 10 lbs. (1.44 kN)
Steel and brass pipe for Water or DWV	Standard	Vertical	Each floor, each to support 10 lbs. (1.44 kN)
Steel, brass, and Cast Copper Pipe for Gas	Standard	Vertical	Each floor, each to support 10 lbs. (1.44 kN)
Schedule 40 PVC and ABS DWV	Standard	Vertical	Each floor, each to support 10 lbs. (1.44 kN)
CPVC	Standard	Vertical	Each floor, each to support 10 lbs. (1.44 kN)
PEL	Standard	Vertical	Each floor, each to support 10 lbs. (1.44 kN)

- ### GENERAL NOTES
- COMPLY WITH ALL LOCAL, COUNTY, STATE AND FEDERAL CODES, ORDINANCES, RULES AND REGULATIONS, 2016 CPC, 2018 CALIFORNIA GREEN BUILDING STANDARDS, 2018 CBC.
 - COMPLY WITH REQUIREMENTS OF THE SERVING AGENCIES.
 - COMPLY WITH REFERENCED COMMERCIAL STANDARDS, SPECIFICATIONS, CODES, RULES, ETC.
 - SEE PLUMBING PIPING SCHEDULE PORTION FOR DOMESTIC PIPE MATERIAL.
 - SOIL, WASTE, DRAIN AND VENT PIPING, USE NO RED CAST IRON PIPE WITH STAINLESS STEEL COUPLING AND NUT/PNEUMATIC GASKETS.
 - INSTALL DIELECTRIC FITTING BETWEEN FERROUS AND NON-FERROUS MATERIALS.
 - PIPE RELIEF DRAIN FOR WATER HEATER TO AN APPROVED RECEPTOR.
 - PLUMBING SYSTEMS SHALL COMPLY WITH CALIFORNIA PLUMBING CODE 2016 CPC.
 - PROVIDE STOP VALVES IN EACH WATER SUPPLY AT EACH PLUMBING FIXTURE.
 - GAS PIPING SHALL BE BLACK STEEL SCHEDULE 40. PIPING EXPOSED TO WEATHER SHALL BE GALVANNEED MEDIUM PRESSURE GAS SHALL BE LABELED EVERY 5'-0" O.C.
 - COORDINATE WORK PRIOR TO INSTALLATION TO PROVIDE FOR PROPER CLEARANCES BETWEEN EQUIPMENT, DUCT WORK, PIPING, JOISTS, CEILING, ETC.
 - REFER TO HVAC PLANS FOR EXACT LOCATION OF HVAC EQUIPMENT. COORDINATE ROUGH-IN LOCATIONS. CONDENSATE DRAINS WITH MECHANICAL CONTRACTOR.
 - UNLESS IMPRACTICAL DUE TO EXISTING CONDITIONS ALL SANITARY PIPING SHALL BE SLOPED TO 1/4" PER FOOT MIN. FOR NEW CONSTRUCTION.
 - REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF PLUMBING FIXTURES.
 - VENT PIPE SHALL TERMINATE VERTICALLY NOT LESS THAN 6 INCHES ABOVE ROOF NOR LESS THAN 12 INCHES FROM ANY VERTICAL SURFACE. EACH VENT SHALL TERMINATE NOT LESS THAN 10 FEET FROM OR AT LEAST 3 FEET ABOVE ANY OPERABLE WINDOW, DOOR, OPENING, AIR INTAKE, OR VENT SHIRT.
 - CROSS CONNECTION PROTECTION SHALL BE PROVIDED AT ALL POTABLE WATER SUPPLIED APPLIANCES AND EQUIPMENT (OTHER THAN THOSE LISTED IN INFORMATION SHEET IV 105).
 - PROVIDE PIPE INSULATION PER 2016 T-24. INSULATE HOT WATER PIPING SUPPLY AND RETURN CIRCULATING LOOP WITH FIBERGLASS 2-PIECE HEAVY DENSITY PIPE INSULATION 1" THICK FOR PIPING LESS THAN 1" - 1-1/2" THICK FOR PIPING 1" AND LARGER. APPLY INSULATION AS PER MANUFACTURER'S INSTRUCTION. INSULATE FITTINGS WITH FIBERGLASS INSULATING CEMENT TO THICKNESS EQUAL TO ADJOINING PIPE INSULATION.
 - PROVIDE OPERATION AND MAINTENANCE MANUAL FOR THE BUILDING OCCUPANT OR OWNER PER CALIFORNIA GREEN CODE, DGC 4.410.1.
 - FLUSH-OUT WATER PIPING PER CPC.
 - BACKFLOW PREVENTERS SHALL BE CERTIFIED PRIOR TO FINAL INSPECTION FOR THE PROJECT.



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ID	DATE	NAME
	12-22-17	PRELIMINARY DRAWING
	02-13-18	100% SD

Project:
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REAL
850 W EL CAMINO REAL
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LEGEND AND NOTES
PLUMBING

Job#: 1779
Scale: AS NOTED

P.0.1

DOMESTIC WATER CALCULATIONS(TBD)	
PER CFC APPENDIX A	
SITE STATIC PRESSURE	73 PSI
WATER METER PD	-4 PSI
BACK BLOW PREVENTER PD	-10 PSI
CLOCKING LOSS 76 FT X 1/2.31, NOTE #1	-33 PSI
MINIMUM RESIDUAL PRESSURE REQUIRED	-20 PSI
HOT WATER MIXING VALVE PD	-5 PSI
SUB-METER PD (N/A)	-0 PSI
FRICTION LOSS WITHIN UNIT (40FT@60PSI/100FT)	-2.4 PSI
RESER FRICTION LOSS (70FT@60PSI/100FT)	-4.2 PSI
HYDRAULIC MAIN LONGEST RUN (300FT@2 PSI/100FT)	-6 PSI
TOTAL SYSTEM REQUIRED PRESSURE(NOTE #2)	-84.6 PSI
SITE AVAILABLE PRESSURE	73 PSI
BOOSTER PUMP MINIMUM LIFT (NOTE #1)	15 PSI
USE MAX. MAIN PRESS. LOSS 2PSI/100FT FOR ALL PIPES SIZED 2" AND LARGER	

NOTES:
1. PROVIDE BOOSTER PUMP WITH 15 PSI LIFT.

MAXIMUM FIXTURE UNITS ALLOWED FOR EACH SIZE OF COPPER PIPE :

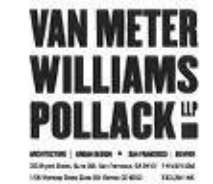
COLD WATER & HOT WATER SUPPLY SIZING				
PIPE SIZE (INCH)	FRICTION LOSS (CW/HAPS/100FT)	MAX. P.S.I. (CW/HW)	FLOW RATE (CW/HW/GPM)	VELOCITY (CW/HW FT/SEC)
1/2"	5.5/5.5	2/2	2.5/2.5	3.5/3.5
3/4"	6.3/6.3	8/8	7/7	5/5
1"	6/4.5	21/16	15/12	6/5
1 1/4"	4.8/3.5	34/28	22/19	6/5
1 1/2"	3.7/2.8	60/49	33/28	6/5
2"	2.7/2	100/115	57/47	6/5
2 1/2"	2/1.5	157/200	92/75	6/5
3"	2.0/1.2	236/208	159/105	6/5
4"	1.9/0.9	1755/874	300/190	6/5
5"	1.7/1.4	2785/1843	410/310	6/5
6"	1.3/1.2	5100/3150	670/450	6/5

HOT WATER RETURN SIZING			
PIPE SIZE (INCH)	FRICTION LOSS (HW/PSI/100FT)	FLOW RATE (HW/GPM)	VELOCITY (HW/FT/SEC)
1/2"	2.5	1	2
3/4"	1.5	3	2
1"	1.1	5	2
1 1/4"	0.8	8	2
1 1/2"	0.6	13	2
2"	0.5	20	2
2 1/2"	0.4	30	2
3"	0.3	45	2
4"	0.2	85	2

PLUMBING FIXTURE SCHEDULE							
SIG	DESCRIPTION	SPECIFICATION	CU (IN)	HW (IN)	V (IN)	Y (IN)	GAS (MDF)
BT-1	BATH TUB	SEE OWNERS SPEC.	1/2	1/2	2	1-1/2	-
BV-1	BALANCE VALVE	GRISWOLD AUTO FLOW BALANCING VALVE. SET FOR 0.75 GPM	-	1/2	-	-	-
CP-1	CIRC PUMP	TACO MODEL 0014-BF1-1(4PCB3) XXX GPM 12 FT HEAD 1/8 HP	-	-	-	-	-
DW-1	DISHWASHER	PROVIDE BY OTHER. ROUGH-IN AND FINAL CONNECTION BY PLUMBING	-	1/2	-	-	-
FD-1	FLOOR CLEAN OUT	ZURN Z-1400 ADJUSTABLE FLOOR CLEANOUT, DRAIN-COATED CAST IRON BODY, W/HEX THROAT ABS PLUG AND ROUND SCREWED SECURED TOP	-	-	-	-	-
FD-1	FLOOR DRAIN	ZURN MODEL ZN-415 TYPE B 6" POLISHED NICKEL BRONZE STRAINER, P-TRAP, TRAP PUMPER	1/2	-	3	2	-
FD-2	FLOOR DRAIN	ZURN ZN-207-P-Y-G 7" MEDIUM DUTY DRAIN	1/2	-	3	2	-
FS-1	FLOOR SINK	ZURN Z-1800-KC-LD-2 12" X 12" FLOOR SINK WITH 1/2" GRATE, BOTTOM STRAINER	-	-	3	2	-
HS-1	HOSE BIBB	RODFORD MODEL 24 SERIES WITH INTEGRAL VACUUM BREAKER & HOSE THREADED NOZZLE	3/4	-	-	-	-
L-1	LAVATORY COUNTER TOP	DUNMUT STARK 3 MODEL# 030546000 GROHE ESSENCE MODEL# 23592. PROVIDE WITH P-TRAP, SINKS AND TRAP	1/2	1/2	1-1/2	1-1/2	-
MKV-1	MIXING VALVE	LEONARD MODEL MEGATON 7M-LF, XXX GPM, AT 10 PSI, COMPLETE WATER TEMPERATURE CONTROL SYSTEM	-	-	-	-	-
SA-1	SHOCK ABSORBER	ZURN SHOCKTRON Z-1700 SERIES. PROVIDE ACCESS PANEL	-	-	-	-	-
SK-1	KITCHEN SINK RESIDENTIAL	GROHE ESSENCE MODEL# 30271, OLIVERI SONETTO MODEL#9990U STAINLESS STEEL SINK. PROVIDE WITH P-TRAP, SINKS AND TRAP	1/2	1/2	2	1-1/2	-
TP-1	TRAP PRIMER	EAS 1/2" BRASS VALVE WITH VACUUM BRAKE DEAD END TYPE WITH ACCESS PANEL	1/2	-	-	-	-
WC-1	WATER CLOSET FLUSH TANK APIS	SEE OWNERS SPEC.	1/2	-	3	2	-
L-2A	LAVATORY	TOTO LT191, ADA. FAUCET KOHLER K-45345-BA-CP, ADA.	1/2	1/2	1/2	2	-
TD-1	TRENCH DRAIN	ZURN MODEL Z-898-HD-HIDE MODULAR CHANNEL SECTIONS W/BOTTOM OUTLET AND END CAPS.	-	-	-	-	-
WC-2A	WATER CLOSET	SEE OWNER SPECIFICATION	1/2	-	3	2	-

NOTES:
1. PROVIDE HOT WATER & DRAIN LINE INSULATION KIT, ECONO-KIT & 2032 FOR ACCESSIBLE LAVATORIES.
2. PROVIDE TEMPERATURE AND PRESSURE BALANCING VALVE.
3. FLUSH HANDLE TO BE ON WIDE SIDE OF FIXTURE
4. PROVIDE SHOCK ABSORBER AT DISHWASHER AND CLOTHES WASHERS.
5. PROVIDE MIXING VALVE UNDER EACH LAVATORY TO DELIVER 105 DEGREE HOT WATER
6. DRAIN DOES NOT REQUIRE TRAP, FLOOR LEVEL DRAINAGE WILL BE TRAPPED AT SAND-OIL INTERCEPTOR.

PLUMBING FIXTURE SCHEDULE							
SIG	DESCRIPTION	SPECIFICATION	CU (IN)	HW (IN)	V (IN)	Y (IN)	GAS (MDF)
WH-1A WH-1B ST-1 CT-1	WATER HEATER	A.O. SMITH DTH-250, 100 GAL, 250MBH INPUT	-	-	-	-	-
WM-1	WASHING MACHINE OUTLET BOX	IFS MODEL #825SET METAL, ES-12, FIVE RATED, WHITE RECESS WALL UNIT - 2" DRAIN OPENING - 1/2" MP VALVES & EXPOSED SHOCK ABSORBERS - ROUGH-IN AND FINAL CONNECTION BY PLUMBING	1/2	1/2	2	1-1/2	-
D-1	CLOTH DRYER	BY OTHERS, PROVIDE ROUGH-IN AND FINAL CONNECTION	-	-	-	-	-
GD-1	GARBAGE DISPOSAL	IN SINK EXHAUSTOR 1/2 HP, 120V/16	-	-	-	-	-
AD-1	AREA DRAIN	ZURN MODEL ZN-534 DECK DRAIN 12" DURA, DRAINED CAST IRON HEAVY DUTY GRATE	-	-	-	-	-
TR-2	TRASH ROOM	CHICAGO MODEL 305-VBCP	1/2	1/2	-	-	-
IMW-1	ICE MAKER WALL BOX	GUY GRAY ICE MAKER HOOK UP MODEL BMBT5, 1/2" INLET WITH COMPRESSION ANGLE VALVE	1/2	-	-	-	-
BT-2	BATH TUB ADA	SEE OWNERS SPEC.	1/2	1/2	2	1-1/2	-
WC-2	WATER CLOSET FLUSH VALVE	SEE OWNERS SPEC.	1/2	-	3	2	-



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ID	DATE	NAME
12-22-17		PRELIMINARY DRAWING
02-13-18		100% SD

Project:
950 W EL CAMINO REAL

950 W EL CAMINO REAL
MOUNTAIN VIEW, CA 94040

Client:
PALO ALTO HOUSING

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SCHEDULE S
PLUMBING

Job#: 1779
Scale: AS NOTED

P0.2

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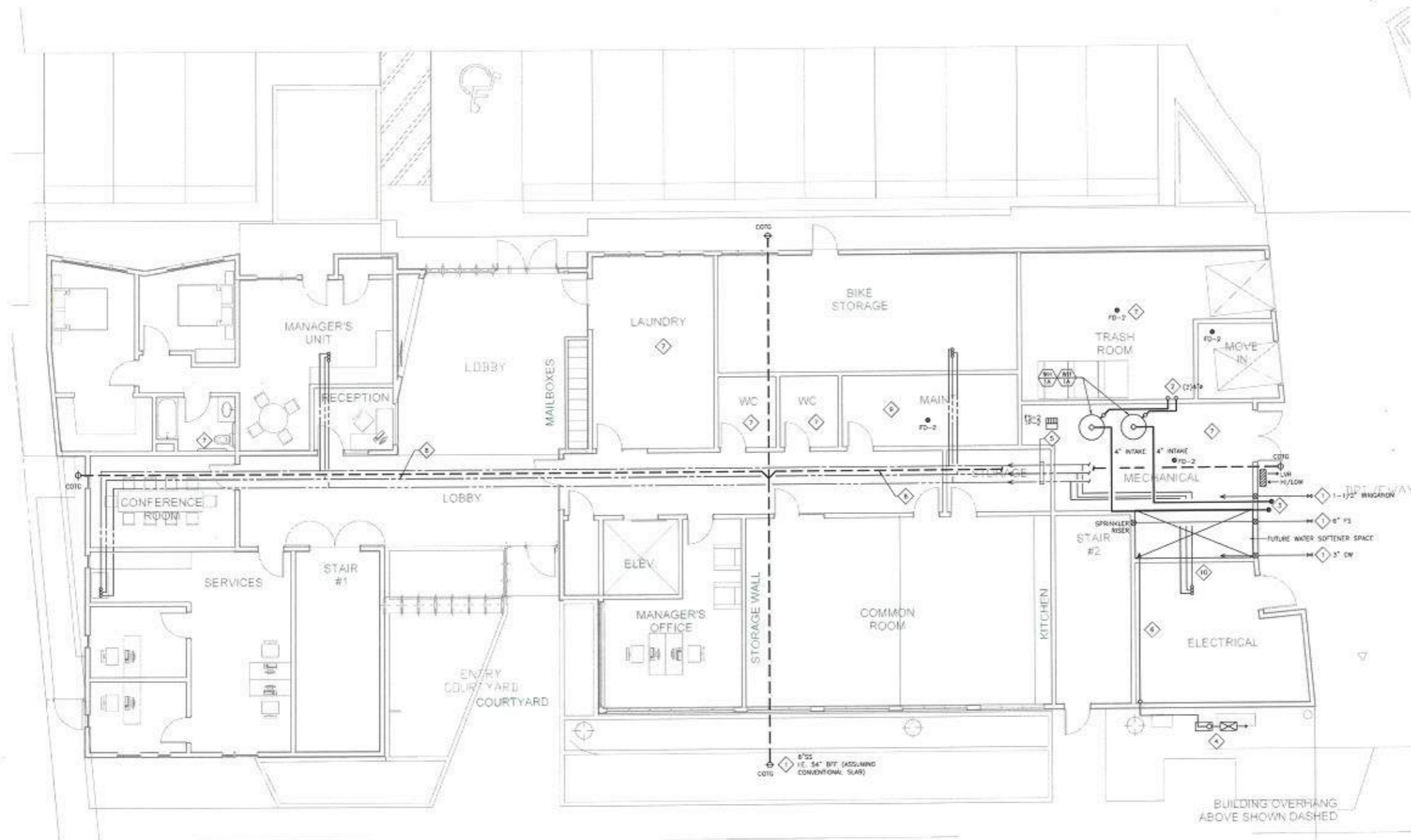
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SHEET NOTES:

- 1 UTILITY SERVICES. CONNECT TO SITE WORK 6' FROM BUILDING. COORDINATE WITH SITE WORK FOR EXACT LOCATION AND PIPE INVERT.
- 2 WATER HEATER FLUE VENT UP TO ROOF IN DESIGNATED SHAFT.
- 3 WATER HEATER COMBUSTION AIR INTAKE. TERMINATE @ EXTERIOR WALL W/ 90° ELBOW PER MFR GUIDELINES.
- 4 FURNACE GAS VENT. COORDINATE WITH DRY JUTTED JOINT TRENCH SITE WORK. PROVIDE SEISMIC SHUT-OFF VALVE.
- 5 COLD/HOT/HOT WATER RETURN PIPING AS HIGH AS POSSIBLE TO SERVICE STACK OF UNITS ABOVE.
- 6 GAS PIPE CROSSOVER IN FURRED WALL.
- 7 PROVIDE PLUMBING FUTURE AND TRIM.
- 8 SANITARY SEWER BELOW SLAB.
- 9 PROVIDE FLOOR DRAIN, MOP SINK, AND UTILITY SINK.
- 10 PROVIDE DRAIN GUTTER UNDER PIPING IN ELECTRICAL WITH 2" DRAIN TO TERMINATE OVER FLOOR SINK.



1 LEVEL 1 - PLUMBING
SCALE: 3/16"=1'-0"

ID	DATE	NAME
	12-22-17	PRELIMINARY DRAWING
	02-15-18	100% SD

Project:
950 W EL CAMINO REAL

950 W EL CAMINO REAL
MOUNTAIN VIEW, CA 94040

Client:
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**LEVEL 1
PLUMBING**

Job#: 1779
Scale: AS NOTED

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ID	DATE	NAME
	12-22-17	PRELIMINARY DRAWING
	02-13-18	100% SD

Project:

**950 W EL CAMINO
REAL**

950 W EL CAMINO REAL
MOUNTAIN VIEW, CA 94040

Client:

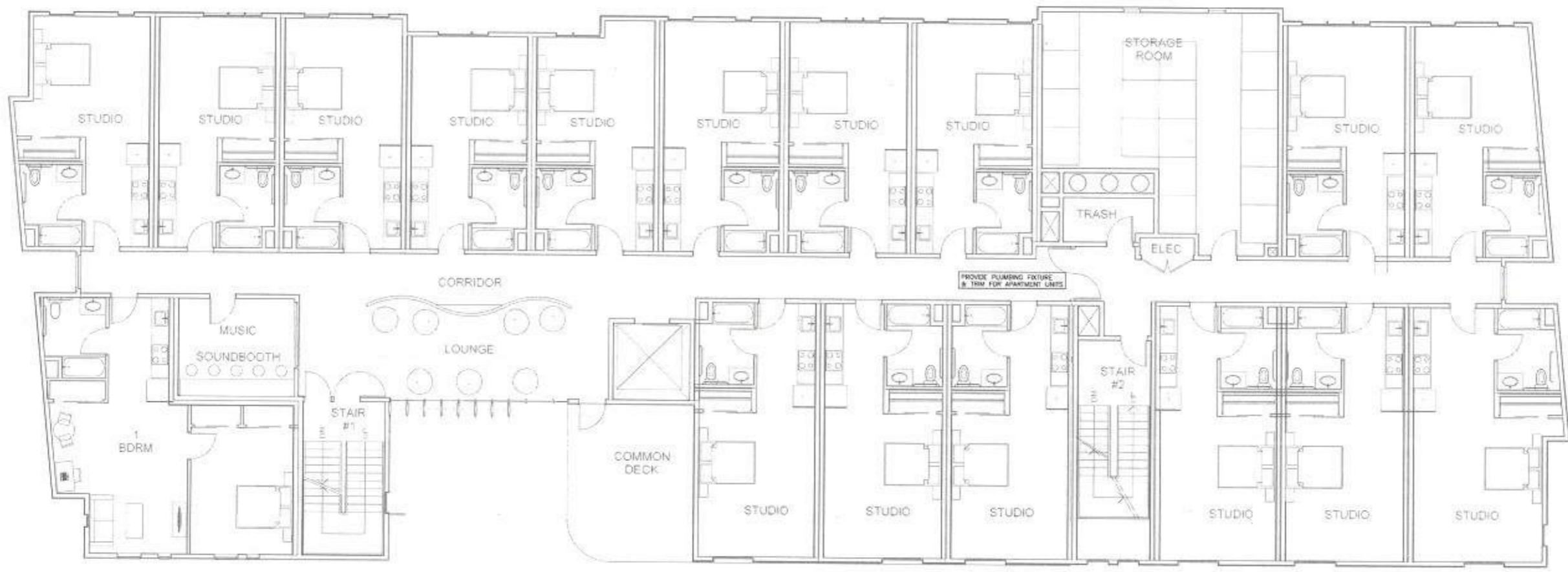
**PALO ALTO
HOUSING**

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**LEVEL 2
PLUMBING**

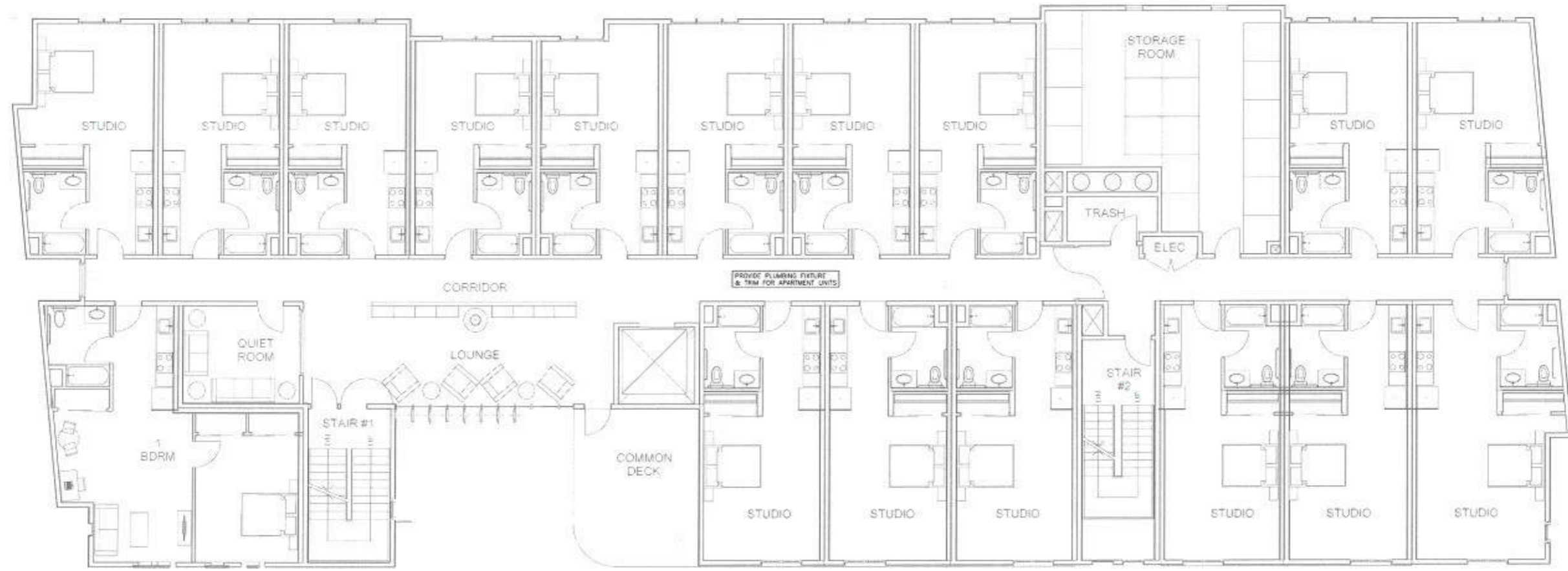
Job#: 1779
Scale: AS NOTED

P2.2



1 LEVEL 2 - PLUMBING
SCALE: 3/16"=1'-0"
NOTE:
(PLUMBING WORK FOR 3RD, 4TH, & 5TH
FLOOR IS SHOWN)

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① LEVEL 3 - PLUMBING
SCALE: 3/16"=1'-0"

ID	DATE	NAME
	12-22-17	PRELIMINARY DRAWING
	02-13-18	100% SD

Project:
950 W EL CAMINO REAL
PALO ALTO HOUSING

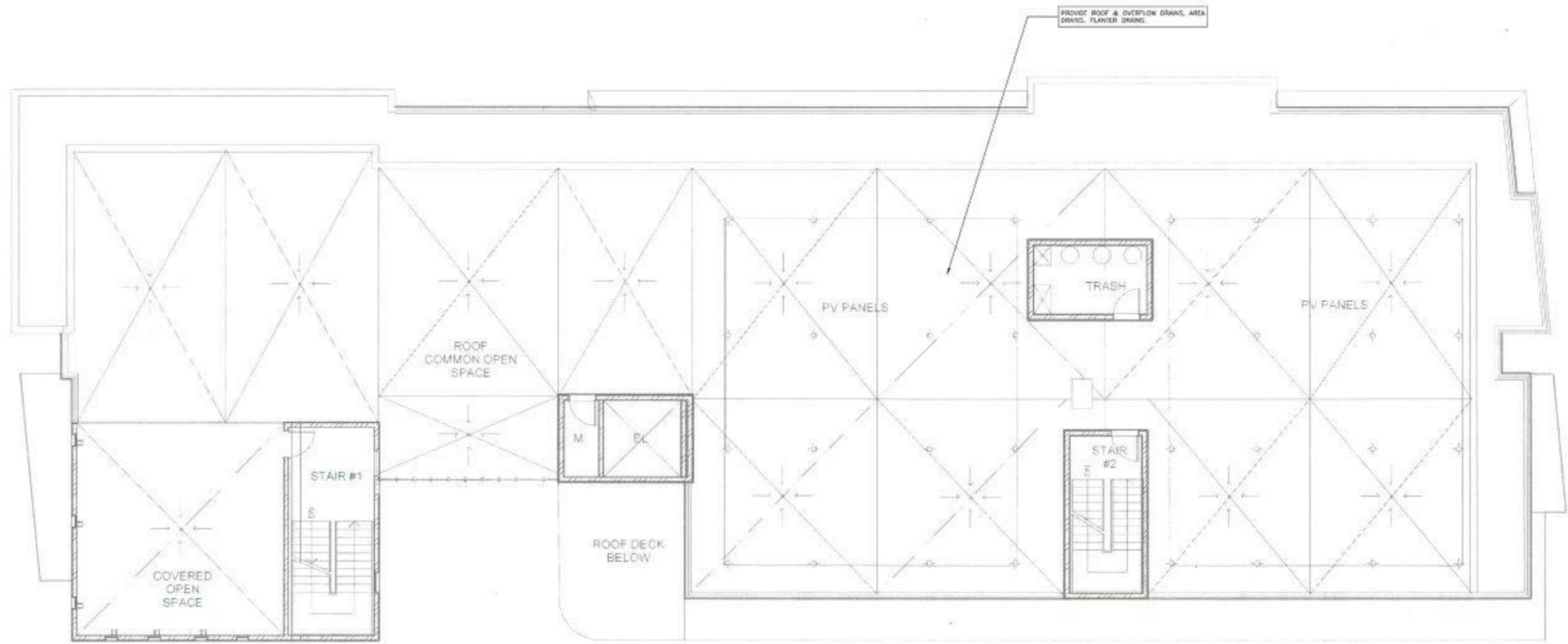
950 W EL CAMINO REAL
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LEVEL 3 PLUMBING

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1 ROOF PLAN - PLUMBING
SCALE: 3/16" = 1'-0"

ID	DATE	NAME
	12-22-17	PRELIMINARY DRAWING
	08-13-18	100% SD

Project:
950 W EL CAMINO REAL

950 W EL CAMINO REAL
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**ROOF PLAN
PLUMBING**

Job#: 1779
Scale: AS NOTED

GENERAL NOTES

- A. IT IS INTENT OF THESE PLANS AND SPECIFICATIONS THAT A COMPLETE AND WORKABLE ELECTRICAL INSTALLATION BE PROVIDED FOR ALL THE EQUIPMENT DESCRIBED OR SHOWN AS BEING IN THIS CONTRACT...
B. ALL CONDUCTORS SHALL BE COPPER, TYPE THHN/THWN 90 DEGREE INSULATION...
C. BEFORE SUBMITTING THE BID PROPOSAL, CONTRACTOR SHALL VISIT THE JOB SITE TO FULLY FAMILIARIZE HIMSELF WITH THE SITE CONDITIONS...
D. CONTRACTOR SHALL REFER TO MECHANICAL DRAWINGS AND WIRING DIAGRAMS FOR TRUNK AND BRANCHES TO BE PROVIDED, INSTALLED AND/OR CONNECTED FOR A COMPLETE AND OPERABLE HEATING, VENTILATION AND AIR CONDITIONING (HVAC) SYSTEM...
E. THE ELECTRICAL SYMBOLS ARE DIAGRAMMATIC IN NATURE AND INDICATE THE LOCATION OF OUTLETS AND EQUIPMENT THROUGHOUT THE BUILDING...
F. ALL PERMITS SHALL BE PROCURED FROM ALL LEGALLY CONSTITUTED AUTHORITIES...
G. CONTRACTOR SHALL DIRECT AND MAINTAIN SUITABLE BARRIERS, PROTECTIVE DEVICES, LIGHTS AND WARNING SIGNS WHERE REQUIRED FOR THE PROTECTION OF THE PUBLIC AND EMPLOYEES ABOUT THE BUILDING...
H. CONTRACTOR SHALL PROVIDE TEMPORARY ELECTRICAL SERVICE FOR CONSTRUCTION POWER AND ILLUMINATION FOR ALL TRADES...
I. ELECTRICAL WORK HAVING A TRANSFORMER(S) RATED 1/2 KW OR ABOVE SHALL BE PROVIDED WITH 1-HOUR FIRE ENCLOSURE...
J. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS FOR SUBMITTALS, ACCEPTABLE MATERIALS, COORDINATION REQUIREMENTS, TESTING, TRAINING AND PROTECTIVE DEVICES...
K. PROVIDE A CODE APPROVED DISCONNECT SWITCH OR BREAKER WITHIN SIGHT OF EVERY MAIN FOR LOCATION OF DISCONNECT SWITCH...
L. CONTRACTOR SHALL TEST ALL WIRING AND CONNECTIONS FOR CONTINUITY, GROUNDING, SHORT CIRCUITS, AND OTHER DEFECTS BEFORE ANY EQUIPMENT OR FIXTURES ARE CONNECTED THERE TO...
M. PROVIDE PULL ROPE IN ALL EMPTY CONDUITS...
N. COORDINATE ROUTING OF RACEWAYS FEEDERS AND HORIZONTAL IN COOPERATION WITH THE WORK OF OTHER TRADES...
O. DO NOT EMBED CONDUITS OR SLEEVES IN STRUCTURAL CONCRETE...
P. INSTALL EXPOSED CONDUITS PARALLEL AND AT RIGHT ANGLES TO THE NEAREST SURFACES AND STRUCTURAL MEMBERS...
Q. PROVIDE EQUIPMENT GROUNDING CONDUCTOR IN ALL LIGHTING AND POWER CONDUITS...
R. LIGHTING: ALL LIGHTING FIXTURES SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS...
S. MORE THAN THREE CIRCUITS PER HOME RUN. DO NOT COMBINE HOMERUNS WITHOUT PRIOR APPROVAL...
T. NO INTERMEDIATE SPLICING OF FEEDERS OR BRANCH CIRCUITS SHALL BE DONE WITHOUT PRIOR APPROVAL...
U. POWER: PROVIDE CONCRETE PADS (MINIMUM 4" HIGH OR AS INDICATED) FOR ALL FLOOR MOUNTED ELECTRICAL EQUIPMENT...
V. DRUMMING: THE EQUIPMENT GROUNDING CONDUCTOR SHALL RUN CONTINUOUS FROM PANEL TO LAST OUTLET...
W. GROUNDING OF CABLE TRAY SHALL BE PER NEC 302.60.

- D. DEMOLITION: SURVEY EXISTING CONDITIONS, INVENTORY AND RECORD THE LOCATION OF ITEMS TO BE REMOVED AND DEMOLISHED...
E. WHERE UTILITIES, FEEDERS, RACEWAYS PASS THROUGH AREAS OF WALLS TO BE DEMOLISHED, DETERMINE SOURCE, FUNCTION AND LOAD PRIOR TO DEMOLITION...
F. AREAS OF WALLS THAT ARE TO REMAIN, PROVIDE PROVISIONS FOR RELOCATING TRAYS TO DEMOLITION...
G. PENETRATIONS IN WALLS REQUIRING PROTECTED OPENINGS MUST BE PRESTRESSED WITH AN APPROVED MATERIAL...
H. ALL EXPOSED CONDUIT, RACEWAYS AND BOXES SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO STRUCTURAL ELEMENTS...
I. ALL NEW DEVICES, OUTLETS, SWITCHES, CONTROLS, ETC. SHALL BE INSTALLED WITH ALIGNMENT FOR ALIGNMENT WITH WORK OF OTHER TRADES...
J. ACoustical NOTES: ALL PENETRATIONS INTO SOUND RATED PARTITIONS OR FLOOR-CEILING ASSEMBLIES WILL BE SEALED, LINED OR INSULATED WITH APPROVED PERMANENTLY APPLIED ACoustIC SEALANT...
K. COORDINATION: THERE IS NO ASSURANCE THAT LOCATION OF SUBSTRUCTURES SHOWN ON THIS DRAWING ARE ACCURATE...
L. STRUCTURAL NOTES: ALL CONDUIT RUNS ARE TO BE PLACED IN THE MIDDLE 1/3 OF THE DEPTH OF SLAB...
M. LIGHTING: ALL LIGHTING FIXTURES SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS...
N. POWER: PROVIDE CONCRETE PADS (MINIMUM 4" HIGH OR AS INDICATED) FOR ALL FLOOR MOUNTED ELECTRICAL EQUIPMENT...
O. DRUMMING: THE EQUIPMENT GROUNDING CONDUCTOR SHALL RUN CONTINUOUS FROM PANEL TO LAST OUTLET...
P. GROUNDING OF CABLE TRAY SHALL BE PER NEC 302.60.

SEPARATION DISTANCES BETWEEN POWER AND DATA CABLE

CONDITION	MINIMUM SEPARATION DISTANCE
UNSHIELDED POWER LINES OR ELECTRICAL EQUIPMENT IN PROXIMITY TO OPEN OR ADJACENT PATHWAYS	5" 12" 24"
UNSHIELDED POWER LINES OR ELECTRICAL EQUIPMENT IN PROXIMITY TO OPEN OR ADJACENT PATHWAYS	2.5" 6" 12"
UNSHIELDED POWER LINES OR ELECTRICAL EQUIPMENT IN PROXIMITY TO OPEN OR ADJACENT PATHWAYS	3" 6" 12"
ELECTRICAL MOTORS AND TRANSFORMERS	48"

SEPARATION DISTANCES BETWEEN DATA CABLES AND SPECIFIC EMI SOURCES

SOURCE OF DISTURBANCE	MINIMUM SEPARATION DISTANCE
FLUORESCENT LAMPS	6"
NEON LAMPS	6"
MERCURY VAPOR LAMPS	6"
HIGH-INTENSITY DISCHARGE LAMPS	6"
MINIMUM SEPARATION DISTANCE	6"
ARC WELDERS	6"
FREQUENCY INDUCTION HEATING	40"

- CONDUIT INSTALLATION NOTES
- ASSOCIATED WITH DIVISION 16
- THE RACEWAY SYSTEM FOR TELECOM CABLE SHALL FOLLOW THE NEC AND ALL LOCAL CODES GOVERNING THIS PROJECT. ADDITIONAL REQUIREMENTS ARE AS FOLLOWS:
- A PULL CORD (NYLON, 1/8" MINIMUM) SHALL BE INSTALLED WITHIN ALL CONDUITS.
 - CONDUIT SHALL RUN IN MOST DIRECT ROUTE POSSIBLE, USUALLY PARALLEL TO BUILDING LINES.
 - CONDUIT SLEEVES SHOULD BE RIGID GALVANIZED STEEL FOR PENETRATIONS OF CONCRETE SLABS, CONCRETE WALLS, ALL SLEEVES SHALL BE INSTALLED USING APPROPRIATE FITTINGS AND ALL PENETRATIONS SHALL BE GROUTED AROUND THE SLEEVE. SLEEVES SHALL PROJECT A MINIMUM OF 2" BEYOND WALL OR FLOOR SURFACE. ALL PENETRATIONS SHALL BE FIRESTOPPED.
 - CONDUIT RUN SHALL CONTAIN NO CONTIGUOUS SECTIONS LONGER THAN 100 FEET. IF RUNS TOTAL MORE THAN 100 FEET, FULL POINTS OR PULL BOXES SHALL BE INSERTED.
 - CONDUIT RUNS TO WORK AREAS SHALL SERVE NO MORE THAN ONE COMMUNICATION OUTLET.
 - CONDUIT SHALL HAVE NO MORE THAN TWO 90 DEGREE OF BENDS AT ANY POINT OR MORE THAN 180 DEGREE OF CUMULATIVE BENDS BETWEEN FULL POINTS.
 - INSTALL CONDUITS WITH A MINIMUM OF BENDS AND OFFSETS. BENDS SHALL NOT VIEW OR DEVIATE INTERIOR CROSS SECTION OF RACEWAY. FACTORY MADE BENDS SHALL BE USED FOR RACEWAY'S 1" STAIR SIZE AND LARGER. BENDS RADIUS SHALL BE 6 TIMES INTERNAL DIAMETER OF CONDUIT. CONDUIT SHALL BE 2" CONDUIT GREATER THAN 2" SMALL. HAVE BEND RADIUS AT LEAST 10 TIMES DIAMETER OF CONDUIT.
 - DO NOT INSTALL CONDUIT OVER OR ADJACENT TO ROLES, INVERTERS, HOT WATER LINES, OR STEAM LINES.
 - NEAR ALL CONDUIT ENDS AND JUNCTIONS WITH AN INSULATED BUSHING TO ELIMINATE SHARP EDGES THAT MAY DAMAGE CABLES.
 - AFTER INSTALLATION, LEAVE CONDUITS CLEAN, DRY AND UNOBSERVED, REARED AND FITTED WITH BUSHINGS.
 - ELECTRICAL METALLIC TUBING, RIGID METAL CONDUIT, FLEXIBLE METAL CONDUIT AND RIGID PVC ARE ALLOWED CONDUIT TYPES.
 - CONDUIT SYSTEM INSTALLATION:
 - 12.1. CABLE IN EXTERIOR, ABOVE GRADE LOCATIONS W/OD GALVANIZED STEEL.
 - 12.2. INTERIOR LOCATIONS: EMT.
 - 12.3. CABLE BELOW GRADE: SCHEDULE 40 PVC.
 - ALL METALLIC CONDUITS SHALL BE APPROPRIATELY GROUNDING AS SPECIFIED IN THE NEC, ANSI/IEEE 81-STD-607-A AND PER MANUFACTURER'S SPECIFICATIONS.
 - CONDUITS ARE TO BE CLEARLY MARKED AT EACH END TO INDICATE THE TRADE (E.G. TELCOM) THAT THE CONDUIT IS INTENDED TO SUPPORT.
 - CABLE PATHWAY SHOULD BE LESS THAN 265 FEET.

- GENERAL PROJECT NOTES
- ALL WORK SHALL CONFORM TO THE 2014 NATIONAL ELECTRICAL CODE AND CALIFORNIA AMENDMENT (05C-2014).
 - CONDUCTOR SIZING SHALL BE IN ACCORDANCE WITH ARTICLE 110-14(C) AND ARTICLE 310-15.
 - BOARDING OF PIPING SYSTEM IN ACCORDANCE WITH ARTICLE 250-50 SHALL INCLUDE BONDING OF METALLIC WATER, GAS, FIRE SPRINKLER, COMPRESSED AIR AND OTHER METALLIC PIPING.
 - ALL ELECTRICAL EQUIPMENT AND DEVICES SHALL BE LISTED BY A NATIONALLY RECOGNIZED LISTING LABORATORY.
 - ALL SWITCHBOARDS & PANELBOARDS SHALL COMPLY WITH ARCH FLASH HAZARD PER 2016 IEC 110-16.
 - IF 20-250 LFC FORMS MUST BE COMPLETED BY LIGHTING INSTALLER AND PROVIDED TO CITY INSPECTOR PRIOR TO FINAL INSPECTION.
 - ALL MOUNTING HEIGHTS ARE TO THE CENTER LINE OF THE DEVICES BACKBOX UNLESS NOTED OTHERWISE.
 - ALL BOXES AND CONDUITS IN WALLS AND CEILING SHALL BE FLUSH MOUNTED OR CONCEALED UNLESS NOTED OTHERWISE.
 - ALL EXTERIOR OUTLETS SHALL BE WEATHERPROOF.
 - EXACT LOCATION OF ALL TELECOM OUTLETS LOCATED IN FURNITURE AND MILLWORK TO BE VERIFIED WITH ARCHITECT PRIOR TO INSTALLATION.
 - PHONE PANEL DIRECTORY AT EACH PANEL, REFERENCE SPECIFICATION SECTION 280520-3.1.5 & PANEL SCHEDULES. PANEL DIRECTORY TO CLEARLY AND ACCURATELY LABEL ALL CIRCUITS AND SPARES.

- TITLE 24 NOTES
- INCLUDE COMMISSIONING REQUIREMENTS FOR ENERGY LOAD VERIFICATION/CERTIFICATION REQUIRED POST CONSTRUCTION PER TITLE 24, 2016 SECTION 130.6.
 - INCLUDE COMMISSIONING REQUIREMENTS FOR LIGHTING SYSTEM CONTROLS ACCEPTANCE AND CERTIFICATION COMPLIANCE WITH TITLE 24, 2016 SECTION 130.4.
- FIRE ALARM
- FIRE ALARM SYSTEM IS DESIGN/BUILD WORK. PROVIDE SHOP DRAWINGS AS PER SPECIFICATION SECTION 16200. THE BUILDING FIRE ALARM SYSTEM MUST HAVE FULL AUTOMATIC DETECTION COVERAGE IN CORRIDORS, STORAGE ROOMS, COMMON AREA, ETC.

- CIRCUITING
- NOTE: WHERE OUTLETS AND LIGHTS ARE SHOWN, BUT INTERCONNECTION WIRING IS NOT INDICATED, THE CONTRACTOR SHALL PROVIDE COMPLETE WIRING. MINIMUM 3/4" CONDUIT, UNLESS NOTED OTHERWISE.
- IN WALL OR ABOVE CEILING
 - IN FLOOR OR BELOW GRADE
 - CONDUIT TYPE: 1 = TELEPHONE, C = CONTROL, S = SECONDARY, D = DISCONNECT SERVICE, TV = FIBER OPTIC
 - STUB OUT: MARK AND CAP
 - CONDUIT UP
 - CONDUIT DOWN
- BRANCH CIRCUIT (HOMERUN TO PANEL 'A', OUTLET No. 1,3 AND 5, 3/4" CONDUIT AND #12 AWG MINIMUM. PROVIDE NEUTRAL AND GROUND UNLESS NUMBER OF CONDUCTORS AS REQUIRED BY NEC AND CIRCUITS.

- SINGLE LINE AND SCHEMATICS
- CIRCUIT BREAKER: 1 = AMP FRAME, 2 = AMP TRIP, 3 = AMPERES INTERRUPTING CAPACITY
 - FUSIBLE SWITCH: -/3 = SWITCH SIZE AND POLES, -/ = FUSE SIZE
 - NORMALLY OPEN CONTACT, NORMALLY CLOSED CONTACT
 - CONTACTOR COIL
 - RELAY COIL
 - FOUR POLE AUTOMATIC TRANSFER SWITCH
 - TRANSFORMER
 - PANEL - SEE PANEL SCHEDULE FOR DETAILS
 - MOTOR STARTER: NUMBER-NEMA STARTER SIZE
 - MOTOR OVERLOADS
 - CURRENT TRANSFORMERS
 - UTILITY COMPANY METER WITH CURRENT TRANSFORMERS
 - GROUND FAULT RELAY
 - SURGE PROTECTION DEVICE
 - SHUNT TRIP UNIT
 - NORMALLY CLOSED, NORMALLY OPEN
 - TERMINAL BLOCK
 - SOLID STATE TRIP UNIT
 - 3 POLE SPACE
 - AVAILABLE INTERRUPTING CURRENT

- SIGNAL SYMBOLS
- NOTE: VERIFY ALL LOW VOLTAGE DEVICES AND ROUTING REQUIREMENTS WITH LOW VOLTAGE DRAWINGS. VERIFY FIRE ALARM DEVICES AND REQUIREMENTS WITH FIRE ALARM DESIGN CONTRACTOR. VERIFY SECURITY DEVICES AND REQUIREMENTS WITH SECURITY CONTRACTOR.
- CAMERA OUTLET
 - CARD ACCESS READER, PROVIDE & INSTALL 4-11/16" SD, 3 2-1/8" DEEP BOX AND CONDUIT TO NEAREST OF CLOSET.
 - REQUEST TO EXIT, PROVIDE AND INSTALL 4-11/16" SD, 3 2-1/8" DEEP BOX AND CONDUIT TO NEAREST OF CLOSET.
 - TELEPHONE ENTRY SYSTEM, PROVIDE AND INSTALL 4-11/16" SD, 3 2-1/8" DEEP BOX AND CONDUIT TO NEAREST OF CLOSET.
 - SELF CONTAINED SMOKE DETECTOR BY RADIO ALARM TEST BELL AND BATTERY BACK.
 - COMBINATION SMOKE DETECTOR AND CO SENSOR
 - DUCT DETECTOR
 - HEAT DETECTOR
 - SYSTEM SMOKE DETECTOR
 - PULL STATION: 4-11/16" SD, 3 2-1/8" DEEP BOX AND CONDUIT TO NEAREST OF CLOSET.
 - FIRE ALARM HORN/STROBE: 4-11/16" SD, 3 2-1/8" DEEP BOX AND CONDUIT TO NEAREST OF CLOSET.
 - FIRE ALARM STROBE LIGHT: 4-11/16" SD, 3 2-1/8" DEEP BOX AND CONDUIT TO NEAREST OF CLOSET.
 - FIRE ALARM HORN/STROBE LIGHT: 4-11/16" SD, 3 2-1/8" DEEP BOX AND CONDUIT TO NEAREST OF CLOSET.
 - DOOR-HOLD OPENER
 - SPRINKLER WATER FLOW SWITCH
 - SPRINKLER SUPERVISORY SWITCH
 - TAMPER SWITCH
 - POST INDICATOR VALVE
 - FIRE SMOKE DAMPER

- DESIGNATIONS
- LIGHTING FIXTURE: F1 = TYPE, 3 = QTY, TP = TYPICAL
 - Mechanical Equipment
 - FEEDER CIRCUITRY TAG
 - LOCAL CALLOUT ON PLAYS
 - SHEET NUMBER
 - SHEET NUMBER
- METHODS
- SHADING INDICATES: FEATURE ON EMERGENCY 'X' OR NIGHT LIGHT 'N' CIRCUIT
 - LETTERS INDICATE FEATURE CONTROLLED BY SWITCHES 2 & 3.
 - INDICATES FEATURE WITH INTEGRATED MOTION SENSOR OR OUTDOOR SENSOR AS INDICATED ON PLANS
 - FLUSH FLOOR MOUNTED WIRING DEVICES
 - FLUSH FLOOR MOUNTED WIRING DEVICES IN SINGLE MULTI-COMPARTMENT BOX
 - RECEPTACLE OR JUNCTION BOX MOUNTED IN CEILING
 - FIXED DASHING INDICATES EXISTING EQUIPMENT AND DEVICES TO BE REMOVED

- MISCELLANEOUS
- TERMINAL MOUNT AT 48" TO TOP UNLESS OTHERWISE NOTED
 - EXHAUST FAN: FRACTIONAL HORSEPOWER
 - MOTOR: NUMBER = HORSEPOWER
 - EMERGENCY POWER OFF PUSH BUTTON
 - GROUND ROD
 - GROUND WELL

- EQUIPMENT
- SWITCHBOARD
 - PANELBOARD AND LOAD CENTER - SURFACE MOUNTED
 - PANELBOARD AND LOAD CENTER - FLUSH MOUNTED
 - TERMINAL CABINET - SURFACE MOUNTED
 - TERMINAL CABINET - FLUSH MOUNTED
 - TELEPHONE AND OTHER SIGNAL CABINET/BOARD
 - TRANSFORMER
 - RELAY
 - CONTACTOR
 - MOTOR OUTLET AND CONNECTION INCLUDING MANUAL MOTOR STARTER, WHERE NOT SHOWN
 - MAGNETIC MOTOR STARTER
 - MANUAL MOTOR STARTER SWITCH, HORSEPOWER RATED BY OVERLOAD
 - NON-FUSIBLE DISCONNECT SWITCH
 - FUSIBLE DISCONNECT SWITCH SIZE AS REQUIRED BY MANUF.
 - CIRCUIT BREAKER DISCONNECT, SIZE AND TYPE AS INDICATED ON PLANS. MATCH HP RATING WHEN USED WITH MOTOR.
 - VARIABLE FREQUENCY DRIVE
 - JUNCTION BOX (FLOOR, CEILING, AND WALL MOUNTED), SIZE AS REQUIRED BY NEC
 - ELECTRIC VEHICLE CHARGING STATION, JUNCTION BOX RUN (1)-1% (POWER), ONE FOR EACH CHARGING STATION 30 ELECTRICAL PANEL RUN (1)-1.25% (PHONE/DATA) TO NEAREST TELECOM ROOM
 - UNDERGROUND PULL BOX, SIZE PER NEC
 - PLUS MOLD SURFACE RACEWAY AND DEVICES
 - TELEPHONE POLE
 - POWER POLE
 - DOOR OPEN PUSH PLATE

- SWITCHES
- SWITCHES AND DEVICES NOTES: MOUNTING HEIGHTS SHALL MEASURE FROM TOP OF THE SWITCH OUTLET BOXES (48" AFF) AND BOTTOM OF THE RECEPTACLE OUTLET BOXES (15" AFF).
- LIGHTING CONTROLS TO BE CONTROLLED FOR BY 1-20 AND COMPLY WITH 2016, TITLE 24 STANDARDS - SECTION 110-3 LIGHTING REQUIREMENTS.
- S: SINGLE POLE, 20A, 120V OR 277V, 4-11/16" AFF TO TOP UNLESS NOTED OTHERWISE
 - Sa Sa Sa S: TWO POLE, THREE WAY, WALL SWITCHES, 4-11/16" AFF TO TOP UNLESS NOTED OTHERWISE
 - Sa Sa Sa S: SWITCH SUBSCRIPTS: 0,1,2 = DEVICE CONTROLLED, P = PILOT LIGHT, A = REVEAL, NO = MOMENTARY CONTACT
 - Sa: SINGLE POLE, 120V, MANUAL MOTOR STARTER WITH BUILT IN THERMAL OVERLOAD PROTECTION SIZED TO SUITE MOTOR NAMEPLATE RATING, MOUNTED AT 48" UNLESS NOTED OTHERWISE
 - Sa: DOUBLE POLE, 208V, MANUAL MOTOR STARTER WITH BUILT IN THERMAL OVERLOAD PROTECTION SIZED TO SUITE MOTOR NAMEPLATE RATING, MOUNTED AT 48" UNLESS NOTED OTHERWISE
 - D: DIMMER SWITCH, 4-11/16" AFF, UNLESS OTHERWISE NOTED TO BE COMPATIBLE WITH LUMINAIRE BALLAST/DRIVER
 - EM: EMERGENCY
 - EMT: ELECTRIC METALLIC TUBING
 - FAMP: FIRE ALARM ANNUNCIATION PANEL
 - FACP: FIRE ALARM CONTROL PANEL
 - FRO: FIRE RATED OTHERS
 - FLUOR: FLUORESCENT
 - FU: FUSE, DUAL-ELEMENT, TIME DELAY
 - GFCI: GROUND FAULT CIRCUIT INTERRUPTER
 - G/RO: GROUNDING
 - HSA: HAND-OFF-AUTOMATIC
 - HO: HIGH INTENSITY DISCHARGE
 - HP: HORSEPOWER
 - HPS: HIGH PRESSURE SODIUM
 - IPS: INTERMEDIATE DISTRIBUTION FACILITY
 - IC: ISOLATED GROUND
 - INCAND: INCANDESCENT
 - KWH: THOUSAND CYCLES KLS (1k = 1000KLS)
 - KW: KILOWATT
 - KVA: KILOVOLT AMPS
 - LPS: LOW PRESSURE SODIUM
 - LV: LIGHTING
 - LV: LOW VOLTAGE
 - MOR: MAIN CIRCUIT BREAKER
 - MOC: MOTOR CONTROL CENTER
 - MCP: MOTOR CIRCUIT PROTECTOR
 - MOF: MAIN DISTRIBUTION FACILITY
 - MOSP: MINIMUM OVERCURRENT PROTECTIVE DEVICE
 - MPCE: MINIMUM POINT OF ENTRY FOR SD/DATA SERVICES
 - NAB: NON-ADJUSTABLE CIRCUIT BREAKER
 - NEMA: NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
 - N/CLUT: NEUTRAL
 - NO: NOT IN CONTRACT
 - NO: NETWORK INTERFACE DEVICE
 - NL: NIGHT LIGHT
 - NTS: NOT TO SCALE
 - OC: ON CENTER
 - PH: PANEL
 - PVC: POLYVINYL CHLORIDE CONDUIT
 - RCS: RIGID GALVANIZED STEEL
 - SPOT: SINGLE POLE DOUBLE THROW
 - SPST: SINGLE POLE SINGLE THROW
 - TBO: TO BE DETERMINED
 - TP: TYPICAL
 - UG: UNDER GROUND
 - UNSW: UNSWITCHED
 - UN/UN: UNLESS OTHERWISE NOTED, UNLESS NOTED OTHERWISE
 - UPS: UNINTERRUPTIBLE POWER SUPPLY
 - V: VOLTS
 - WP: WEATHER PROOF (NEW 31)
 - EX: EXISTING TO BE REMOVED
 - RE: EXISTING TO REMAIN
 - EX: EXISTING RELOCATED
 - (N): NEW EQUIPMENT OR DEVICE
 - (R): EXISTING TO BE RELOCATED
 - (X): EXISTING TO BE REMOVED

- RECEPTACLES
- SINGLE: 20A, 125V, NEMA 5-20R, 24" AFF TO BOTTOM UNLESS NOTED OTHERWISE
 - DUPLEX: 20A, 125V, NEMA 5-20R, 48" AFF TO BOTTOM UNLESS NOTED OTHERWISE
 - SINGLE: 30A, 250V, NEMA 6-30R, 24" AFF TO BOTTOM UNLESS NOTED OTHERWISE
 - DOUBLE DUPLEX: 20A, 125V, NEMA 5-20R, 48" AFF TO BOTTOM UNLESS NOTED OTHERWISE
 - HALF SWITCHED DUPLEX: 20A, 125V, NEMA 5-20R, 48" AFF TO BOTTOM UNLESS NOTED OTHERWISE
 - DUPLEX GFCI: 20A, 125V, GFCI, NEMA 5-20R GFCI, 24" AFF TO BOTTOM UNLESS NOTED OTHERWISE
 - SPECIAL RECEPTACLE - AS INDICATED ON PLANS, VERIFY WITH EQUIPMENT MANUFACTURER, 24" AFF TO BOTTOM UNLESS NOTED OTHERWISE
 - OUTLET SUBSCRIPTS: C = OUTLET MOUNTED ABOVE CENTER, O = GROUNDING RECEPTACLE AND USE POST OUTLET, S = SWITCH/CONTROL/LESS RECEPTACLE, CLS = CEILING, E = DEDICATED, E = EMERGENCY POWER

- ABBREVIATIONS
- | A, AMP | AMPERES |
|---------|--|
| AC | ACROSS FINISHED FLOOR |
| AF | AMPERES INTERRUPTING CAPACITY |
| ATS | AUTOMATIC TRANSFER SWITCH |
| A/V | AUDIO/VISUAL |
| BOP | BUILDING DISTRIBUTION FACILITY |
| BMS | BUILDING MANAGEMENT SYSTEM |
| C | CONDUIT, WITH FULLLOAD IF OTHERWISE EMPTY |
| CR, C/R | CIRCUIT BREAKER |
| CLG | CEILING, CEILING MOUNTED |
| EDPT | DOUBLE POLE DOUBLE THROW |
| EDST | DOUBLE POLE SINGLE THROW |
| EC | EMPTY CONDUIT |
| EM | EMERGENCY |
| EMT | ELECTRIC METALLIC TUBING |
| FAMP | FIRE ALARM ANNUNCIATION PANEL |
| FACP | FIRE ALARM CONTROL PANEL |
| FRO | FIRE RATED OTHERS |
| FLUOR | FLUORESCENT |
| FU | FUSE, DUAL-ELEMENT, TIME DELAY |
| GFCI | GROUND FAULT CIRCUIT INTERRUPTER |
| G/RO | GROUNDING |
| HSA | HAND-OFF-AUTOMATIC |
| HO | HIGH INTENSITY DISCHARGE |
| HP | HORSEPOWER |
| HPS | HIGH PRESSURE SODIUM |
| IPS | INTERMEDIATE DISTRIBUTION FACILITY |
| IC | ISOLATED GROUND |
| INCAND | INCANDESCENT |
| KWH | THOUSAND CYCLES KLS (1k = 1000KLS) |
| KW | KILOWATT |
| KVA | KILOVOLT AMPS |
| LPS | LOW PRESSURE SODIUM |
| LV | LIGHTING |
| LV | LOW VOLTAGE |
| MOR | MAIN CIRCUIT BREAKER |
| MOC | MOTOR CONTROL CENTER |
| MCP | MOTOR CIRCUIT PROTECTOR |
| MOF | MAIN DISTRIBUTION FACILITY |
| MOSP | MINIMUM OVERCURRENT PROTECTIVE DEVICE |
| MPCE | MINIMUM POINT OF ENTRY FOR SD/DATA SERVICES |
| NAB | NON-ADJUSTABLE CIRCUIT BREAKER |
| NEMA | NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION |
| N/CLUT | NEUTRAL |
| NO | NOT IN CONTRACT |
| NO | NETWORK INTERFACE DEVICE |
| NL | NIGHT LIGHT |
| NTS | NOT TO SCALE |
| OC | ON CENTER |
| PH | PANEL |
| PVC | POLYVINYL CHLORIDE CONDUIT |
| RCS | RIGID GALVANIZED STEEL |
| SPOT | SINGLE POLE DOUBLE THROW |
| SPST | SINGLE POLE SINGLE THROW |
| TBO | TO BE DETERMINED |
| TP | TYPICAL |
| UG | UNDER GROUND |
| UNSW | UNSWITCHED |
| UN/UN | UNLESS OTHERWISE NOTED, UNLESS NOTED OTHERWISE |
| UPS | UNINTERRUPTIBLE POWER SUPPLY |
| V | VOLTS |
| WP | WEATHER PROOF (NEW 31) |
| EX | EXISTING TO BE REMOVED |
| RE | EXISTING TO REMAIN |
| EX | EXISTING RELOCATED |
| (N) | NEW EQUIPMENT OR DEVICE |
| (R) | EXISTING TO BE RELOCATED |
| (X) | EXISTING TO BE REMOVED |

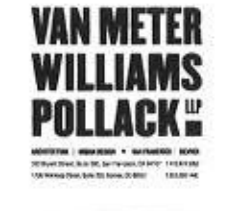
- TELECOM SYMBOLS
- TELECOMMUNICATION IS A DESIGN BUILD SCOPE ELECTRICAL CONTRACTOR MUST COORDINATE ALL OUTLET LOCATIONS & QUANTITY WITH OWNER PRIOR TO SUBMIT BID.
- ELEVATOR PHASE OUTLET-PROVIDE ONE ANULOUS VOICE DROP COMPLETE WITH CABLE, CONNECTOR AND TERMINATION AS REQUIRED. RISE ONE 1.25" CONDUIT FROM ELEVATOR EQUIPMENT BOX TO ACCESSIBLE CEILING ON THE SAME FLOOR AS SHOWN. LINE COORDINATE EXACT LOCATION WITH ELEVATOR VENDOR.
 - WALL PHONE OUTLET-PROVIDE ONE DROP COMPLETE WITH CABLE, CONNECTOR AND TERMINATION AS REQUIRED. RUN ONE 1.25" CONDUIT FROM 4.800" SQUARE BY 3.125" GALVANIZED STEEL BOX WITH SINGLE GANG PLASTER RING TO ACCESSIBLE CEILING ON THE SAME FLOOR AS SHOWN, MOUNT AT 24" AFF UNLESS NOTED OTHERWISE.
 - TELECOMMUNICATION OUTLET: TELEPHONE AND OTHER SIGNAL CABINET/BOARD
 - TRANSFORMER
 - RELAY
 - CONTACTOR
 - MOTOR OUTLET AND CONNECTION INCLUDING MANUAL MOTOR STARTER, WHERE NOT SHOWN
 - MAGNETIC MOTOR STARTER
 - MANUAL MOTOR STARTER SWITCH, HORSEPOWER RATED BY OVERLOAD
 - NON-FUSIBLE DISCONNECT SWITCH
 - FUSIBLE DISCONNECT SWITCH SIZE AS REQUIRED BY MANUF.
 - CIRCUIT BREAKER DISCONNECT, SIZE AND TYPE AS INDICATED ON PLANS. MATCH HP RATING WHEN USED WITH MOTOR.
 - VARIABLE FREQUENCY DRIVE
 - JUNCTION BOX (FLOOR, CEILING, AND WALL MOUNTED), SIZE AS REQUIRED BY NEC
 - ELECTRIC VEHICLE CHARGING STATION, JUNCTION BOX RUN (1)-1% (POWER), ONE FOR EACH CHARGING STATION 30 ELECTRICAL PANEL RUN (1)-1.25% (PHONE/DATA) TO NEAREST TELECOM ROOM
 - UNDERGROUND PULL BOX, SIZE PER NEC
 - PLUS MOLD SURFACE RACEWAY AND DEVICES
 - TELEPHONE POLE
 - POWER POLE
 - DOOR OPEN PUSH PLATE

- SHEET INDEX
- | NO. | TITLE |
|------|-----------------------------------|
| 00.1 | LEGEND, SCHEDULES AND NOTES |
| 00.2 | SCHEDULES |
| E1.1 | SITE PLAN - ELECTRICAL |
| E2.1 | LEVEL 1 PLAN - POWER AND SIGNAL |
| E2.2 | LEVEL 2 PLAN - POWER AND SIGNAL |
| E2.3 | LEVEL 3 PLAN - POWER AND SIGNAL |
| E2.4 | LEVEL 4 PLAN - POWER AND SIGNAL |
| E2.5 | LEVEL 5 PLAN - POWER AND SIGNAL |
| E2.6 | LEVEL 6 PLAN - POWER AND SIGNAL |
| E3.1 | LEVEL 1 PLAN - LIGHTING |
| E3.2 | LEVEL 2 PLAN - LIGHTING |
| E3.3 | LEVEL 3 PLAN - LIGHTING |
| E3.4 | LEVEL 4 PLAN - LIGHTING |
| E3.5 | LEVEL 5 PLAN - LIGHTING |
| E3.6 | LEVEL 6 PLAN - LIGHTING |
| E4.1 | ENLARGED LIMIT PLANS - ELECTRICAL |
| E5.1 | SINGLE LINE DIAGRAM |
| E6.2 | LOW VOLTAGE RISER DIAGRAM |
| E6.3 | FIRE ALARM RISER DIAGRAM |
| E6.4 | LOAD CALCULATIONS |

- TELECOM SYMBOLS
- TELECOMMUNICATION IS A DESIGN BUILD SCOPE ELECTRICAL CONTRACTOR MUST COORDINATE ALL OUTLET LOCATIONS & QUANTITY WITH OWNER PRIOR TO SUBMIT BID.
- ELEVATOR PHASE OUTLET-PROVIDE ONE ANULOUS VOICE DROP COMPLETE WITH CABLE, CONNECTOR AND TERMINATION AS REQUIRED. RISE ONE 1.25" CONDUIT FROM ELEVATOR EQUIPMENT BOX TO ACCESSIBLE CEILING ON THE SAME FLOOR AS SHOWN. LINE COORDINATE EXACT LOCATION WITH ELEVATOR VENDOR.
 - WALL PHONE OUTLET-PROVIDE ONE DROP COMPLETE WITH CABLE, CONNECTOR AND TERMINATION AS REQUIRED. RUN ONE 1.25" CONDUIT FROM 4.800" SQUARE BY 3.125" GALVANIZED STEEL BOX WITH SINGLE GANG PLASTER RING TO ACCESSIBLE CEILING ON THE SAME FLOOR AS SHOWN, MOUNT AT 24" AFF UNLESS NOTED OTHERWISE.
 - TELECOMMUNICATION OUTLET: TELEPHONE AND OTHER SIGNAL CABINET/BOARD
 - TRANSFORMER
 - RELAY
 - CONTACTOR
 - MOTOR OUTLET AND CONNECTION INCLUDING MANUAL MOTOR STARTER, WHERE NOT SHOWN
 - MAGNETIC MOTOR STARTER
 - MANUAL MOTOR STARTER SWITCH, HORSEPOWER RATED BY OVERLOAD
 - NON-FUSIBLE DISCONNECT SWITCH
 - FUSIBLE DISCONNECT SWITCH SIZE AS REQUIRED BY MANUF.
 - CIRCUIT BREAKER DISCONNECT, SIZE AND TYPE AS INDICATED ON PLANS. MATCH HP RATING WHEN USED WITH MOTOR.
 - VARIABLE FREQUENCY DRIVE
 - JUNCTION BOX (FLOOR, CEILING, AND WALL MOUNTED), SIZE AS REQUIRED BY NEC
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PROJECT

ID	DATE	NAME
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NOTES, LEGENDS AND SCHEDULES

Job# 1779
Scale: AS NOTED

E.O.1

LIGHTING FIXTURE SCHEDULE							
TAG	SYMBOL ON PLAN	DESCRIPTION	ACCEPTABLE MANUFACTURER CATALOG NO.	NO. & TYPE OF LAMP	FIXTURE WATT	VOLTS/MOUNTING	NOTES
A1		7" LED SURFACE DOWNLIGHT, DIMMABLE, 1000 LUMENS, 3000K	PHILIPS LIGHTSQUER, OR EQUAL 578-835-10-210U	① 10.2W LED	12	120 RECESSED	CORRIDORS, LOBBY, LOUNGE
A2		8" LED RECESSED DOWNLIGHT, DIMMABLE, 2000 LUMENS, 3000K	PHILIPS LIGHTSQUER, OR EQUAL P68-0-20-N-210-U-V8-P68-0-835-V8-P68-0-C1	① 20.7W LED	22	120 WALL	CORRIDORS, LOBBY, LOUNGE
A3		4" LED RECESSED DOWNLIGHT, DIMMABLE, 1000 LUMENS, 3000K	PHILIPS LIGHTSQUER, OR EQUAL P48-0-10-N-210-U-V8-P48-0-835-V8-P48-0-C1	① 10.2W LED	12	120 SURFACE	CORRIDOR AT ELEVATOR
B1		4" LINEAR LED STRIP LIGHT	PHILIP FLUXSTREAM, OR EQUAL LF-4-FR-39-35-U-S27	① 42W LED	42	120 SURFACE	MECH/ELECT CORR., TRASH, LOBBY, MAIL STORAGE
C1		2X2 RECESSED LED TRAFFIC	COOPER H&D PDS-10-ED010-PDMSA-835-84W	① 12.1W LED	14	120 RECESSED	MECH/ELECT CORR., TRASH, LOBBY, MAIL STORAGE
S1		4" LED W/WRAPAROUND W/ MOTION SENSOR, SIZE STEPPED DIMMING BALLAST AND 90-MIN BATTERY BACK	PE WILLIAMS, OR EQUAL SLT-4-LED-P-143/830-1W-EM/89L310-0005S-ED050UT-120	① 42W LED	42	120 SURFACE	STAIRS
P1		14" LED POLE LIGHT, DISTRIBUTION TYPE II	SELIX LIGHTING, OR EQUAL AN-S1-0-L105-R3W-40-120 SK 936 42-9	① 56W LED	56	120 FLOOR @ 14'-0"	PARKING LOT
P2		14" LED POLE LIGHT, DISTRIBUTION TYPE V	SELIX LIGHTING, OR EQUAL AN-S1-0-L105-R3-40-120 SK 934 42-9	① 56W LED	56	120 FLOOR @ 14'-0"	PARKING LOT
W1		LED WALL PACK	TECH LIGHTING FIXTURE, OR EQUAL 7000SP58P-LED0632	① 28.2W LED	28	120 WALL @ 8'-0"	BUILDING EXTERIOR, WALKWAYS & TERRACE
W2		LED WALL PACK WITH INTEGRAL MOTION SENSOR	LEOROK ESETA, OR EQUAL ES1-24H-MW-A-BR-250-MSL2	① LED	30	120 WALL @ 8'-0"	ROOF
EB		LED ROLLARD	EGCO, OR EQUAL 3528E05, V01	① 30W LED	20	120 SURFACE	EXTERIOR WALKWAY
EG		LED ROLLARD	BEGA, OR EQUAL 77 090	① 13.4W LED	14	120 IN-GROUND	ENTRANCE FACADE
X1		SINGLE FACE EMERGENCY EXIT LIGHT, RED LETTERS ON WHITE, W/ 90-MIN BATTERY BACKUP	DUAL LITE, OR EQUAL LX-U-R-W-E-1	① 4W LED	5	120 SURFACE	--
X2		DUAL FACE EMERGENCY EXIT LIGHT, RED LETTERS ON WHITE, W/ 90-MIN BATTERY BACKUP	DUAL LITE, OR EQUAL LX-U-R-W-E-1	① 4W LED	5	120 SURFACE	--
EM		EMERGENCY LIGHTING UNIT, W/ 90-MIN BATTERY BACKUP, WET RATED	DUAL LITE, OR EQUAL LZ-10-03L	① 10W LED	10	120 SURFACE	--

LIGHTING FIXTURES SCHEDULE NOTES:

- ① OR EQUAL AS APPROVED BY OWNER.
- VERIFY THAT FIXTURE TYPE, WATTAGE/DISTRIBUTION AND LUMEN OUTPUT IS EQUAL TO WHAT IS SPECIFIED PRIOR TO ORDERING.
- VERIFY FIXTURE TYPE, QUANTITY, LOCATION AND REQUIREMENT WITH ARCHITECTURAL, LANDSCAPE AND ID DRAWINGS.

LIGHTING FIXTURES GENERAL NOTES:

- FIXTURES WHERE SHOWN HALF SHADED ARE ON EMERGENCY CIRCUIT OR 90 MIN. BATTERY BACK-UP.
- ALL FLUORESCENT AND COMPACT FLUORESCENT FIXTURES SHALL HAVE ELECTRONIC BALLASTS.
- VERIFY TYPE & COLOR OF ALL RECESSED FIXTURES TRIMS WITH ARCHITECT.
- ALL LIGHT FIXTURES ASSEMBLY TO COMPLY WITH CURRENT I-24 REQUIREMENTS.
- BEFORE ORDERING VERIFY THE DEPTH OF ALL RECESSED FIXTURES, FINAL VOLTAGE AND CEILING TRIM PROVIDE IC HOUSING FOR ALL FIXTURE IN CEILING WITH INSULATION.
- ALL EXTERIOR FIXTURES SHALL BE GASKETED, UL LISTED FOR WET LOCATIONS, PERFORM NIGHT-TIME LIGHT TEST TO VERIFY BACK SPILL BEFORE ROUGH-IN.
- ALL COMPACT FLUORESCENT LAMPS SHALL HAVE COLOR RENDERING OF 2700K.
- ALL EXTERIOR LIGHT FIXTURES SHALL BE SHARP CUT-OFF WITH CONTROLED SOURCE, PROVIDE HOUSE SIDE SHIELDS TO REDUCE BACK SPILL LIGHT IF REQUIRED.
- ALLOW FOR 10 ADDITIONAL EMERGENCY EXIT AND EMERGENCY LIGHTS TO BE INSTALLED PER INSPECTOR'S DIRECTION.
- ALL WORK SHALL CONFORM TO THE 2011 NATIONAL ELECTRICAL CODE AND CALIFORNIA AMENDMENT (DEC 2013).
- CONDUCTOR SIZING SHALL BE IN ACCORDANCE WITH ARTICLE 210.19 AND 215.2.
- BONDING OF PIPING SYSTEM IN ACCORDANCE WITH ARTICLE 250.50 SHALL INCLUDE BONDING OF METALLIC WATER, GAS, FIRE SPRINKLER, COMPRESSED AIR AND OTHER METALLIC PIPING.
- ALL SWITCHBOARDS & PANELEBOARDS SHALL COMPLY WITH ARCH FLASH HAZARD PER ARTICLE 110.16.
- ALL CONDUIT BENDS SHALL COMPLY WITH NEC CHAPTER-9, TABLE-2.
- ELECTRICAL WIRING, DEVICES, APPLIANCES AND OTHER EQUIPMENT THAT IS MODIFIED OR DAMAGED WHICH CAN CAUSE FIRE HAZARD SHALL NOT BE USED.
- EXTENSION CORDS AND FLEXIBLE CORDS SHALL NOT BE A SUBSTITUTE FOR PERMANENT WIRING.

MOTION/OCCUPANCY SENSOR SYMBOLS			
SYMBOL	DESCRIPTION	VOLT	WATTSTOPPER OR EQUAL
	ONE OR TWO-WAY, CEILING MTD. (HALLWAY) ULTRASONIC SENSOR. AREA: SOLY. TRAY.	120	UT-355-3 HALLWAY
	TWO-WAY, CEILING MTD. (2607) ULTRASONIC SENSOR AREA: 500 SQ. FT.	120	UT-355-1
	TWO-WAY, CEILING MTD. (2607) ULTRASONIC SENSOR AREA: 1,000 SQ. FT.	120	UT-355-2
	TWO-WAY, CEILING MTD. (2607) ULTRASONIC SENSOR AREA: 2,000 SQ. FT.	120	UT-355-3
	WALL SWITCH TYPE P-1 R. SENSOR WITH SINGLE INTEGRAL OVERRIDE SWITCH. UP TO 300 SQ. FT.: 180'	120	LMPW-101
	WALL SWITCH TYPE P-1 R. SENSOR WITH DUAL INTEGRAL OVERRIDE SWITCH. UP TO 300 SQ. FT.: 180'	120	LMPW-102 (0-1200W)
	EXTERIOR ONE OR TWO-WAY, CEILING OR WALL MOUNTED PASSIVE INFRARED SENSOR WITH AREA: 30-50 SQ. FT.: 90'	120	EN-100
	WALL SWITCH TYPE P-1 R. SENSOR WITH SINGLE INTEGRAL OVERRIDE SWITCH. TITLE 24 COMPLIANT, UP TO 500 SQ. FT.: 180'	120	CS-50
	MULTI-WAY WALL SWITCH TYPE P-1 R. VACANCY SENSOR WITH SINGLE INTEGRAL OVERRIDE SWITCH. TITLE 24 COMPLIANT, UP TO 500 SQ. FT.: 180'	120	CH-250

OCCUPANCY SENSOR GENERAL NOTES

FINAL DETERMINATION OF CIRCUITING, VOLTAGE AND QUANTITY OF POWER PACKS REQUIRED, AND SETTING OF SENSITIVITY/TIME ADJUSTMENTS ARE THE RESPONSIBILITY OF THE INSTALLING CONTRACTOR AND/OR COMMISSIONING AGENT. MANUFACTURER'S INSTALLATION INSTRUCTIONS SHOULD BE ADHERED TO.

- VERIFY SENSOR MODELS WITH WATTSTOPPER REP, REFERENCE E7.3.
- ALL SENSOR LOCATIONS ARE APPROXIMATE. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS PRIOR TO INSTALLATION. IF PREHANG MOUNTED FIXTURES ARE PRESENT, LOCATION AND COVERAGE OF SENSORS SHOULD BE REVIEWED. COORDINATE WITH ARCHITECT ALL MOUNTING HEIGHT AND LOCATIONS OF OCCUPANCY SENSOR AND ACCESSORIES PRIOR TO ROUGH-IN.
- ULTRASONIC CEILING MOUNT SENSORS REQUIRE THEY BE LOCATED NO CLOSER THAN 6" TO AIR SUPPLY/ RETURN REGISTERS.
- CONTRACTOR IS RESPONSIBLE FOR PROPER SENSITIVITY AND TIME DELAY SETTINGS. VERIFICATION OF MANUFACTURER'S RECOMMENDED PLACEMENT AND FIELD VERIFICATION OF CIRCUITS WITH RESPECT TO POWER PACK PLACEMENT.
- CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF REQUIRED NUMBER OF POWER PACKS.
 - ONE POWER PACK IS REQUIRED FOR EACH CIRCUIT THAT IS TO BE CONTROLLED WITH LOW VOLTAGE OCCUPANCY SENSOR. POWER PACK LOCATIONS SHALL NOT BE EXPOSED, COORDINATE WITH ARCHITECT FOR PLACEMENT.
 - MAXIMUM NUMBER OF SENSORS THAT CAN BE WIRED IN PARALLEL TO A SINGLE POWER PACK IS DEPENDENT ON SENSOR MODEL. (SEE INDIVIDUAL SENSOR DATA SHEETS FOR MAX CONSUMPTION).

LIGHTING CONTROL & MARKINGS				
LEVEL	ROOM	CONTROL DEVICE	FUNCTION	REMARKS
1	ELECTRICAL ROOM, TELECONFERENCE, MECH. ROOM	WALL ON/OFF SWITCH	MANUAL ON/OFF	
1	TRASH ROOM	WALL DIMMER SWITCH AND CEILING OCCUPANCY SENSOR	WALL DIMMER SWITCH TO TURN LIGHTS ON/OFF AND DIM AND OCCUPANCY SENSOR TO AUTOMATICALLY SHUT-OFF LIGHTS AT NO OCCUPANCY	
1	STAIRWELLS	FIXTURE INTEGRATED MOTION SENSOR WITH STEP DIMMING	INTEGRATED MOTION SENSOR TO DIM TO 40% AND BACK TO 100% DURING OCCUPANCY	
ALL	CORRIDORS	CEILING OCCUPANCY SENSOR AND WYBEY DIMMER SWITCH AT STAIR ENTRANCE	CEILING SENSOR TO TURN ON/FIXTURE TYPE A LED DIMMING OCCUPANCY DIMMER SWITCH CONTROLS BY MANUFACTURER'S INSTRUCTIONS	
1	SMALL STORAGE ROOM	WALL OCCUPANCY SENSOR SWITCH	MANUAL ON/OFF BY SWITCH AND AUTO OFF BY MOTION SENSOR	
1	MAINT ROOM	WALL MOUNTED DIMMING OCCUPANCY SENSOR SWITCH	MANUAL ON/OFF & DIM BY SWITCH AND AUTO OFF BY MOTION SENSOR	
1	ME ROOMS	WALL OCCUPANCY SENSOR SWITCH	MANUAL ON/OFF BY SWITCH AND AUTO OFF BY MOTION SENSOR	
1	ME STORAGE	WALL DIMMER SWITCH AND CEILING OCCUPANCY SENSOR	MANUAL ON/OFF & DIM BY SWITCH AND AUTO OFF BY MOTION SENSOR	
1	LAUNDRY ROOM	3-WAY WALL DIMMER SWITCH AND CEILING OCCUPANCY SENSOR	MANUAL ON/OFF & DIM BY SWITCH AND AUTO OFF BY MOTION SENSOR	
1	LOBBY	WALL DIMMER SWITCH AND CEILING OCCUPANCY SENSOR PHOTOCELL	MANUAL ON/OFF & DIM BY SWITCH AND AUTO OFF BY MOTION SENSOR. PHOTOCELL TO AUTOMATICALLY ADJUST LIGHTING FOR DAY-LIGHT HARVESTING	
1	RECEPTION	WALL MOUNTED DIMMING OCCUPANCY SENSOR SWITCH	MANUAL ON/OFF & DIM BY SWITCH AND AUTO OFF BY MOTION SENSOR	
1	CONFERENCE ROOM	WALL MOUNTED DIMMING OCCUPANCY SENSOR SWITCH	MANUAL ON/OFF & DIM BY SWITCH AND AUTO OFF BY MOTION SENSOR	
1	SEWICE	WALL DIMMER SWITCH AND CEILING OCCUPANCY SENSOR	MANUAL ON/OFF & DIM BY SWITCH AND AUTO OFF BY MOTION SENSOR	
1	MAIL OFFICES	WALL MOUNTED DIMMING OCCUPANCY SENSOR SWITCH	MANUAL ON/OFF & DIM BY SWITCH AND AUTO OFF BY MOTION SENSOR	
1	MANAGER'S OFFICE	WALL DIMMER SWITCH AND CEILING OCCUPANCY SENSOR PHOTOCELL	MANUAL ON/OFF & DIM BY SWITCH AND AUTO OFF BY MOTION SENSOR. PHOTOCELL TO AUTOMATICALLY ADJUST LIGHTING FOR DAY-LIGHT HARVESTING	
1	COMMON ROOM	WALL DIMMER SWITCH AND CEILING OCCUPANCY SENSOR PHOTOCELL	MANUAL ON/OFF & DIM BY SWITCH AND AUTO OFF BY MOTION SENSOR. PHOTOCELL TO AUTOMATICALLY ADJUST LIGHTING FOR DAY-LIGHT HARVESTING	
2	MUSIC SOLID BOOTH	WALL MOUNTED DIMMING OCCUPANCY SENSOR SWITCH	MANUAL ON/OFF & DIM BY SWITCH AND AUTO OFF BY MOTION SENSOR	
2.3.45	LOUNGE	WALL DIMMER SWITCH AND CEILING OCCUPANCY SENSOR PHOTOCELL	MANUAL ON/OFF & DIM BY SWITCH AND AUTO OFF BY MOTION SENSOR. PHOTOCELL TO AUTOMATICALLY ADJUST LIGHTING FOR DAY-LIGHT HARVESTING	
2.3.45	SMALL TRASH ROOMS	WALL OCCUPANCY SENSOR SWITCH	MANUAL ON/OFF BY SWITCH AND AUTO OFF BY MOTION SENSOR	
2.3.45	ELECT CLOSETS	WALL SWITCH	MANUAL ON/OFF	
2.3.45	LARGE STORAGE ROOMS	WALL DIMMER SWITCH AND CEILING OCCUPANCY SENSOR	MANUAL ON/OFF & DIM BY SWITCH AND AUTO OFF BY MOTION SENSOR	
3	QUIET ROOM	WALL MOUNTED DIMMING OCCUPANCY SENSOR SWITCH	MANUAL ON/OFF & DIM BY SWITCH AND AUTO OFF BY MOTION SENSOR	
1	EXTERIOR LIGHTS		WALK TO GAIN OPERATION VIA PHOTOCELL THROUGH HUBBOX LIGHTING CONTROL PANEL	

Miscellaneous Motor & Equipment Schedule							
TAG	DESCRIPTION	LOAD	VOLT	CONTROL	STARTER	REMARKS	

MISCELLANEOUS MOTOR & EQUIPMENT SCHEDULE NOTES:

- VERIFY BREAKER/FUSE SIZE WITH EQUIPMENT MANUFACTURER.
- STARTERS SHALL BE PROVIDED & CONNECTED UNDER ELECT. SECTION.
- PROVIDE INTERLOCK CONDUIT, WIRING AND CONNECT TO CORRESPONDING FAN COOL UNIT. SMD.
- PROVIDE COMBINATION OF DISCONNECT AND STARTER FOR ALL EXHAUST FANS ON ROOF.
- OUTDOOR UNIT POWERS INDOOR UNIT, RUN WIRE FROM OUTDOOR UNIT TO INDOOR UNIT.
- UNIT WITH CONTROL PANEL, COORDINATE WITH PLUMBING.
- PROVIDE NEUTRAL WIRE FOR INTEGRATED CONDENSATE PUMP. COORDINATE WITH MECHANICAL.
- EXHAUST FAN WITH INTEGRATED LIGHT, CONNECT THE LIGHT TO THE LIGHTING SWITCH.



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ID	DATE	NAME
10-22-17		PRELIMINARY DRAWING
02-13-18		100% SD

Project

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SCHEDULES

Job#: 1779

Scale: AS NOTED

E02

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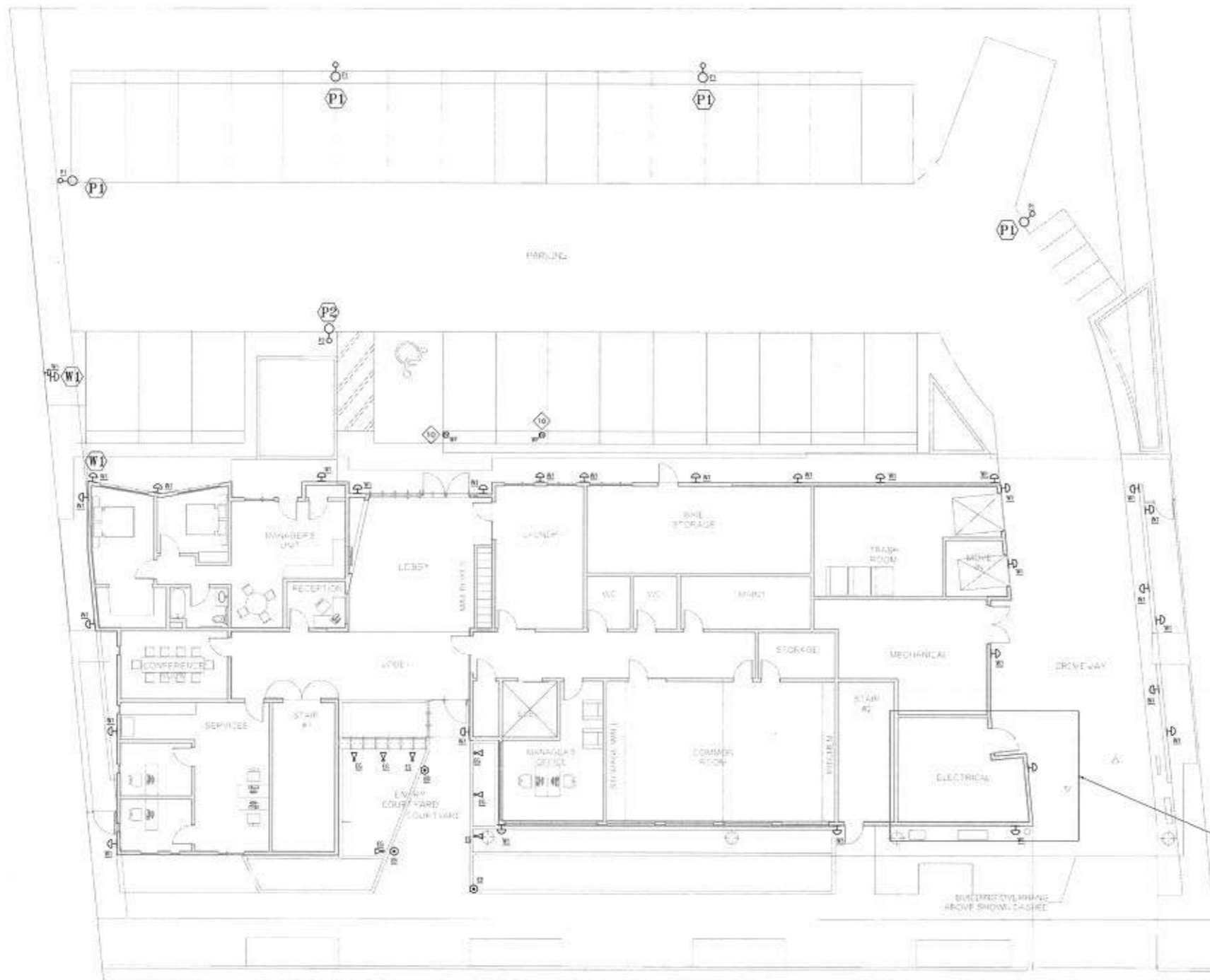
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GENERAL NOTES:

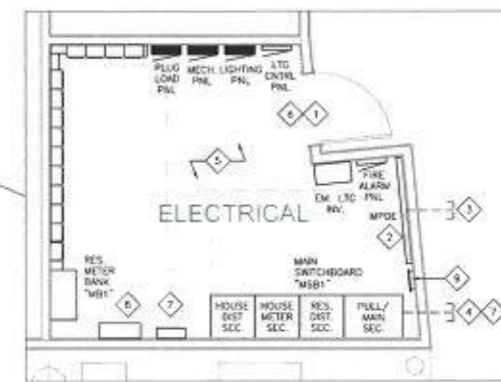
1. ALL WEING DEVICES MOUNTED ON EXTERIOR SHALL BE WEATHERPROOF.
2. SEE PANEL SCHEDULES FOR WIRE SIZE AND VOLTAGE DROP.
3. BRANCH CIRCUIT CONDUIT SIZING SHALL BE BY NEC. PROVIDE JUNCTION BOXES AS REQUIRED.
4. COORDINATE SITE LIGHTING WITH LANDSCAPE.

SHEET NOTES:

1. PROVIDE PANEL HARDWARE PER NEC-110.26(C)(3). SEE ARCHITECTURAL DRAWING.
2. 3/4" X 8" FIRE RATED FLYWOOD BACKBOARD. PROVIDE 1/8" GROUND PER PHONE COMPANY REQUIREMENT. ONE MPOK ONLY FOR ENTIRE BUILDING. VERIFY EXACT MPOK LOCATION WITH JOINT TRENCH FOUR LOCATIONS SHOWN FOR REFERENCE ONLY.
3. RUN PHONE/DATA CONDUITS 10' BEYOND THE MPOK ROOM BELOW. SET LOW VOLTAGE RISER DIAGRAM FOR CONDUIT SIZE. COORDINATE WITH JOINT TRENCH CONTRACTOR FOR EXACT TERMINATION POINT.
4. SEE JOINT TRENCH PLANS FOR PG&E TRANSFORMER LOCATION. RUN PG&E SECONDARY CONDUITS FROM SWITCHBOARD PULL BOX TO PG&E TRANSFORMER. SEE JOINT TRENCH DRAWING FOR TRANSFORMER LOCATION. CONDUIT SIZE AND EXACT NUMBER OF CONDUITS REQUIRED. COORDINATE CONDUIT RUNS WITH STRUCTURAL DRAWING TO MAKE SURE THEY DO NOT RUN THROUGH ANY FOOTINGS OR FOUNDATION WALLS.
5. NO FOREIGN OBJECT OR EQUIPMENT IS ALLOWED IN THE DEDICATED SPACE FOR ELECTRICAL INSTALLATION ABOVE THE ELECTRICAL SWITCHBOARD PER NEC 110.26(E).
6. PROVIDE PLANNY VISIBLE AND LEGIBLE SIGN STATING "ELECTRICAL ROOM" ON THE DOOR.
7. ADD ALTERNATE:
A. PROVIDE METER AS INDICATED MOUNT METER ADJACENT TO PANEL. PROVIDE 1" CONDUIT FROM METER ENCLOSURE TO BMS.
B. 1" CONDUITS FROM METER ENCLOSURE TO SWITCHBOARD.
8. DEDICATED SPACE FOR FUTURE P.V. SOLAR DISCONNECT.
9. SERVICE MAIN GROUND BAR, SEE 2/15.1.
10. FUTURE ELECTRIC VEHICLE CHARGING STATION. COORDINATE EXACT LOCATION WITH ARCHITECT. VERIFY PLUG TYPE & CONNECTION. RUN (1)-1" (POWER) ONE FOR EACH CHARGING STATION & (1)-1.25" (PHONE/DATA).



1 SITE PLAN - ELECTRICAL
SCALE: 1/8"=1'-0"



2 ENLARGED ELECTRICAL ROOM PLAN
SCALE: 1/4"=1'-0"

ID	DATE	NAME
	12-22-17	PRELIMINARY DRAWING
	02-13-18	100% SD

Project:

950 W EL CAMINO REAL

950 W EL CAMINO REAL
MOUNTAIN VIEW, CA 94040

Client:

PALO ALTO HOUSING

725 Alma St
PALO ALTO, CA 94301
(650) 321-9700

SITE PLAN ELECTRICAL

Job# 1779

Scale: AS NOTED

GENERAL NOTES:

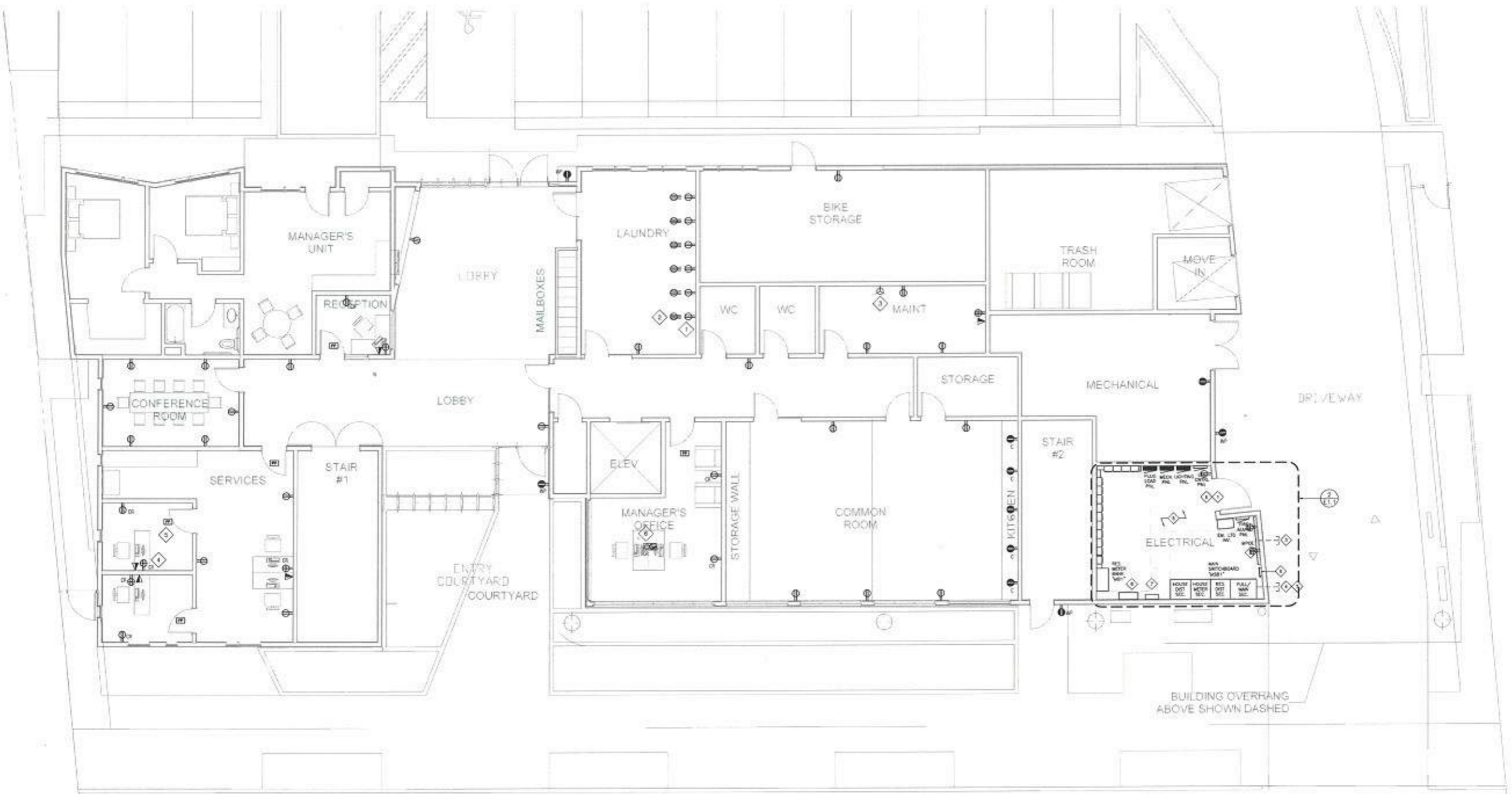
- COORDINATE WITH MECHANICAL AND PLUMBING PLANS FOR EQUIPMENT LOCATION AND REQUIREMENT.
- VERIFY POWER AND DATA/SIGNAL OUTLETS WITH OWNER.

SHEET NOTES:

- TYPICAL IN LAUNDRY ROOM, ELECTRIC CLOTHES WASHER, 120V, VERIFY WITH OWNER.
- TYPICAL IN LAUNDRY ROOM, ELECTRIC CLOTHES DRYER, 208V, 3Ø, VERIFY WITH OWNER.
- 208V, 3Ø, SPECIAL OUTLET FOR EQUIPMENT TESTING, VERIFY WITH OWNER.
- TYPICAL OUTLET WITH SUBSCRIPT "CR" INDICATES CONTROLLED RECEPTACLE PER TITLE 24 REQUIREMENT.
- TYPICAL PROVIDE POWER PACK OR RELAY TO TURN OFF CONTROLLED RECEPTACLE AFTER 30 MIN. OF NO OCCUPANCY PER TITLE 24 REQUIREMENTS. CONNECT POWER PACK TO ROOM OCCUPANCY SENSOR. REFERENCE LIGHTING PLANS FOR OCCUPANCY SENSOR.
- FLOOR OUTLET, LEGRAND #88552 OR EQUAL. PROVIDE CORE TO CLOSEST WALL.



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- STRUCTURAL ENGINEER**
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415-683-5322
- MEP ENGINEER**
FARD Engineers
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Walnut Creek, CA 94598
925-932-5505
- LANDSCAPE ARCHITECT**
Hill Associates
100 Cascade Drive
Aliso Viejo, CA 92653
949-761-3184



ID	DATE	NAME
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	02-13-18	100% SD

Project:
950 W EL CAMINO REAL

950 W EL CAMINO REAL
MOUNTAIN VIEW, CA 94040

Client:
PALO ALTO HOUSING

725 Alma St
Palo Alto, CA 94301
(650) 321-9709

**LEVEL 1
POWER & SIGNAL**

Job#: 1779
Scale: AS NOTED

E2.1

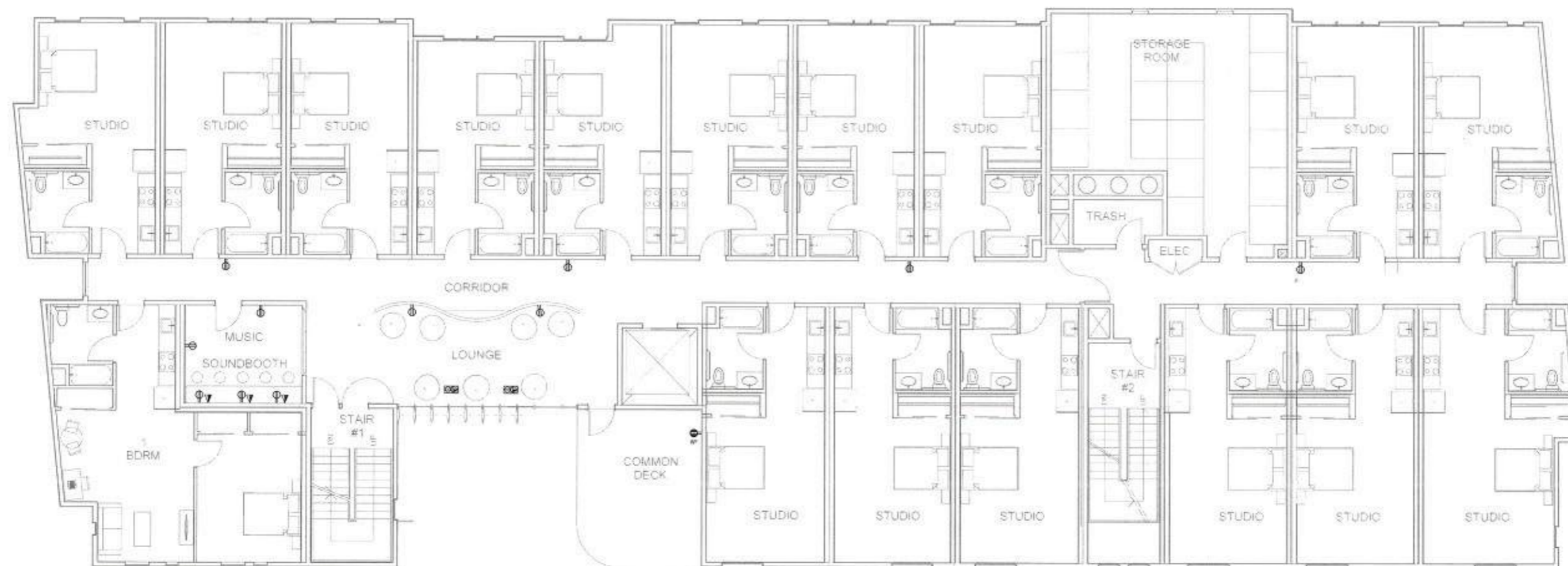
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Luk and Associates
738 Alford Road Drive
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ID	DATE	NAME
12-22-17	PRELIMINARY DRAWING	
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Project
950 W EL CAMINO REAL

950 W EL CAMINO REAL
MOUNTAIN VIEW, CA 94040

Clerk
PALO ALTO HOUSING

725 Alamo St
Palo Alto, CA 94301
(650) 321-8709

LEVEL 2
POWER & SIGNAL

Job# 1779
Scale AS NOTED

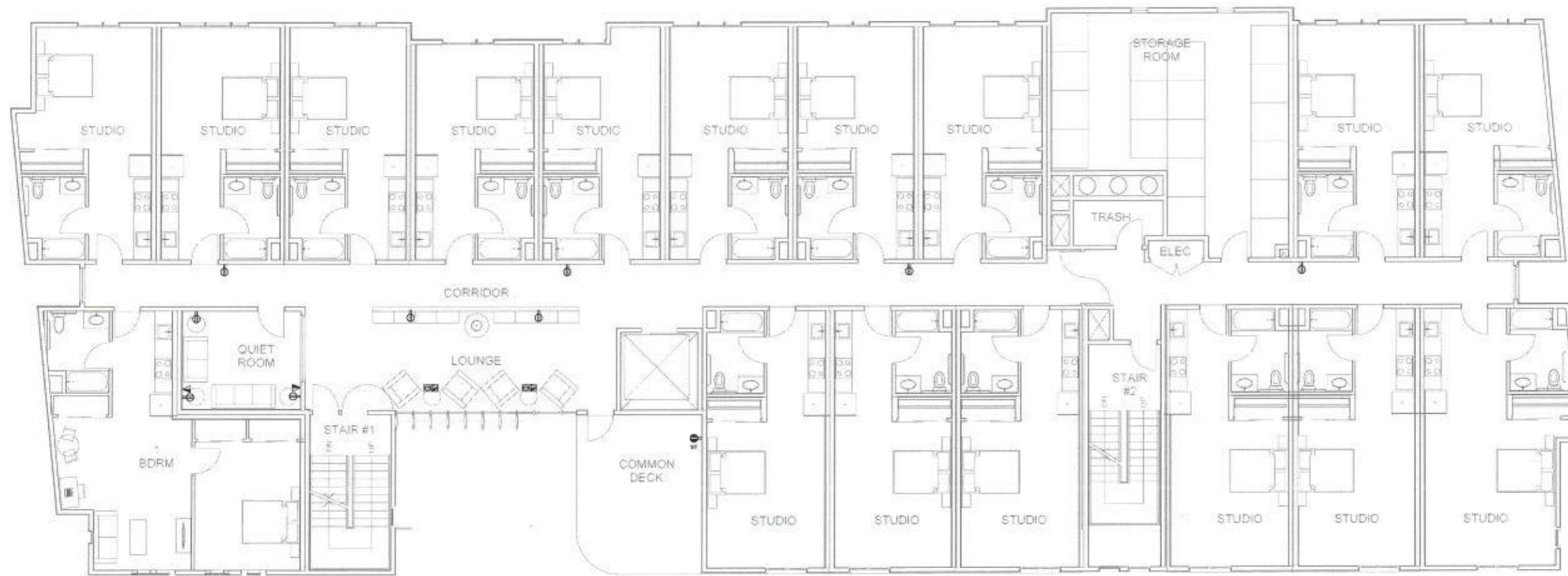
① LEVEL 2 - POWER & SIGNAL
SCALE: 3/16"=1'-0"

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738 Almaden Road Drive
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Aptos, CA 95021
408-761-3184



ID	DATE	NAME
13-22-17	13-22-17	PRELIMINARY DRAWING
00-10-18	00-10-18	100% SD

Project:
950 W EL CAMINO REAL

950 W EL CAMINO REAL
MOUNTAIN VIEW, CA 94040

Client:
PALO ALTO HOUSING

725 Alca St
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(650) 321-9709

**LEVEL 3
POWER & SIGNAL**

Job#: 1779
Scale: AS NOTED

E2.3

1 LEVEL 3 - POWER & SIGNAL
SCALE: 3/16"=1'-0"

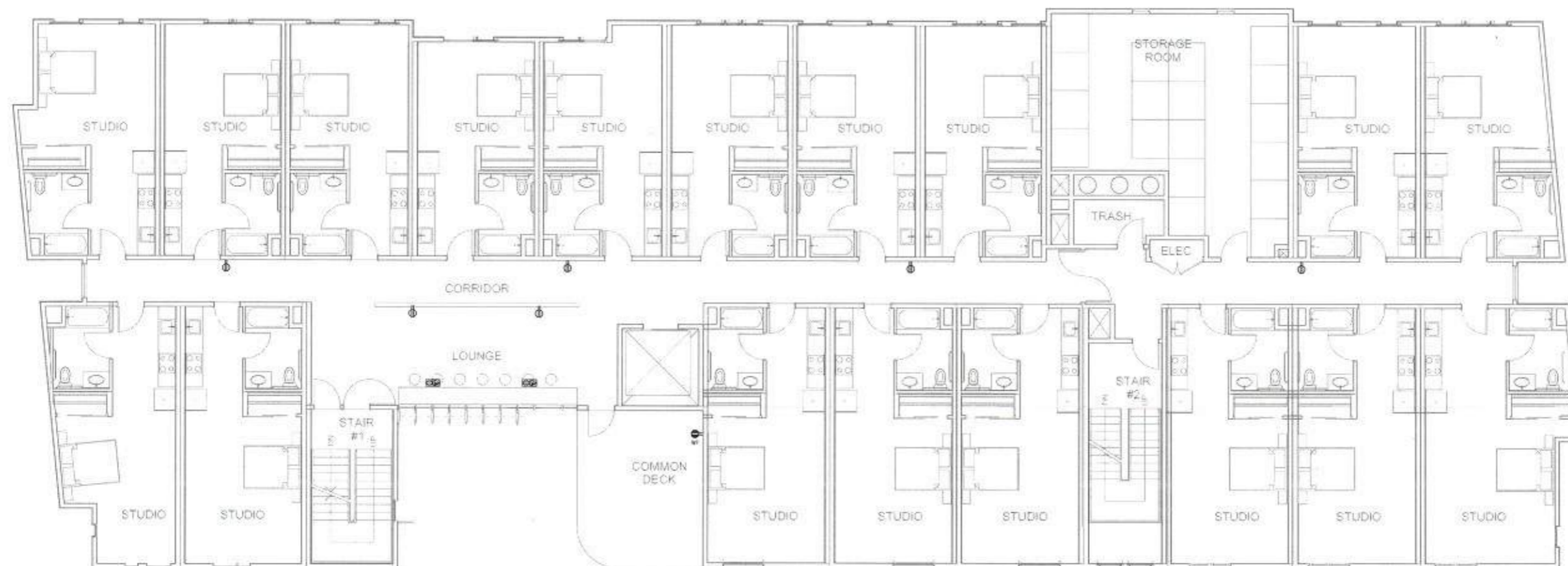
CIVIL ENGINEER
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ID	DATE	NAME
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	02-11-18	100% SD

Project:
**950 W EL CAMINO
REAL**

950 W EL CAMINO REAL
MOUNTAIN VIEW, CA 94040

Client:
**PALO ALTO
HOUSING**

725 Alma St
Palo Alto, CA 94301
(850) 321-9709

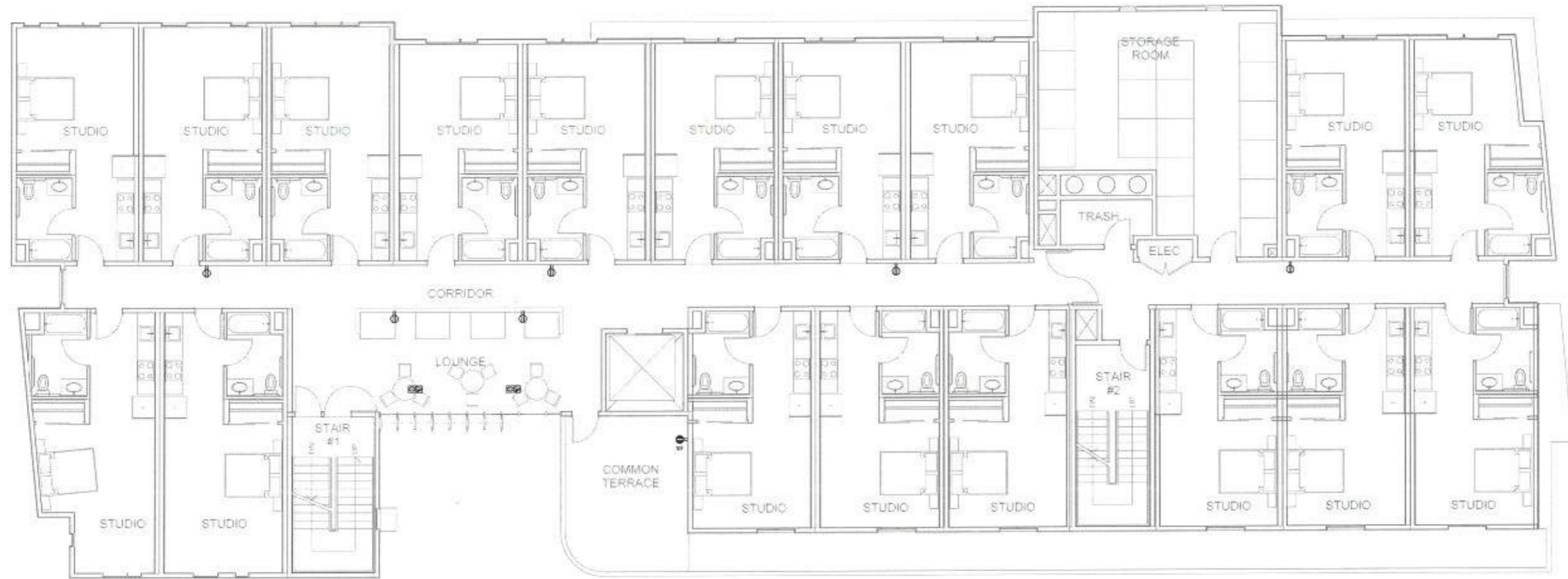
**LEVEL 4
POWER & SIGNAL**

Job#: 1778
Scale: AS NOTED

1 LEVEL 4 - POWER & SIGNAL
SCALE: 3/16"=1'-0"

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- LANDSCAPE ARCHITECT
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ID	DATE	NAME
	12-22-11	PRELIMINARY DRAWING
	02-13-16	100% SD

Project:

950 W EL CAMINO
REAL

950 W EL CAMINO REAL
MOUNTAIN VIEW, CA 94040

Client:

PALO ALTO
HOUSING

725 Alma St
Palo Alto, CA 94301
(650) 321-8709

LEVEL 5
POWER & SIGNAL

Job#: 1779
Scale: AS NOTED

E2.5

① LEVEL 5 - POWER & SIGNAL
SCALE: 3/16"=1'-0"

CIVIL ENGINEER
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230 Alfred Nobel Drive
Folsom, CA 95642
916-724-3300

STRUCTURAL ENGINEER
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San Francisco, CA 94102
415-699-5122

MEP ENGINEER
FARD Engineers
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Walnut Creek, CA 94598
925-932-5505

LANDSCAPE ARCHITECT
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Aptos, CA 95003
408-761-0186

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309 Lennon Lane
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Walnut Creek, CA 94598

- GENERAL NOTES:**
1. ALL WIRING DEVICES MOUNTED ON EXTERIOR SHALL BE WEATHERPROOF.
 2. PROVIDE CONTROL WIRING FOR HVAC EQUIPMENT PER MECHANICAL DRAWINGS.
 3. SIZE ALL FUSES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
 4. ALL ULL LISTED EQUIPMENT SHALL BE INSTALLED AS PER THEIR LISTING OR LABELING.
 5. PROVIDE NAME TAG IDENTIFICATION OF PANEL NUMBER AND BREAKER NUMBER WITH PERMANENT MARKER ON EACH DISCONNECT SWITCH FOR HVAC EQUIPMENT.
 6. ROUTE CONDUIT BELOW ROOF. DO NOT RUN ANY CONDUIT ON THE ROOF.
 7. VERIFY ALL MECHANICAL EQUIPMENT EXACT LOCATION WITH MECHANICAL DRAWING.
 8. PROVIDE GFCI RECEPTACLES WITHIN 25' OF MECHANICAL EQUIPMENT ON THE ROOF.
 9. PROVIDE COMBINATION OF DISCONNECT AND STARTER FOR ALL EXHAUST FANS ON ROOF. ACTIVATION OF ASSOCIATED FSD SHALL TURN OFF THE FAN AND NOTIFY FACP.

- SHEET NOTES:**
1. TYPICAL IN LAUNDRY ROOM, ELECTRIC CLOTHES WASHER, 120V, VERIFY WITH OWNER.
 2. TYPICAL IN LAUNDRY ROOM, ELECTRIC CLOTHES DRYER, 208V, 30A, VERIFY WITH OWNER.
 3. 208V, 30A SPECIAL OUTLET FOR EQUIPMENT TESTING, VERIFY WITH OWNER.
 4. TYPICAL OUTLET WITH SUBSCRIPT "CH" INDICATES CONTROLLED RECEPTACLE PER TITLE 24 REQUIREMENT.
 5. TYPICAL, PROVIDE POWER PACK OR RELAY TO TURN OFF CONTROLLED RECEPTACLE AFTER 30 MIN. OF NO OCCUPANCY PER TITLE 24 REQUIREMENTS. CONNECT POWER PACK TO ROOM OCCUPANCY SENSOR. REFERENCE LIGHTING PLANS FOR OCCUPANCY SENSOR.
 6. FLOOR OUTLET, LOGRAMP #80052 OR EQUAL, PROVIDE CORE TO CLOSEST WALL.

ID	DATE	NAME
12-22-17		PRELIMINARY DRAWING
02-13-18		100% SD

Project:

950 W EL CAMINO REAL

950 W EL CAMINO REAL
MOUNTAIN VIEW, CA 94040

Client:

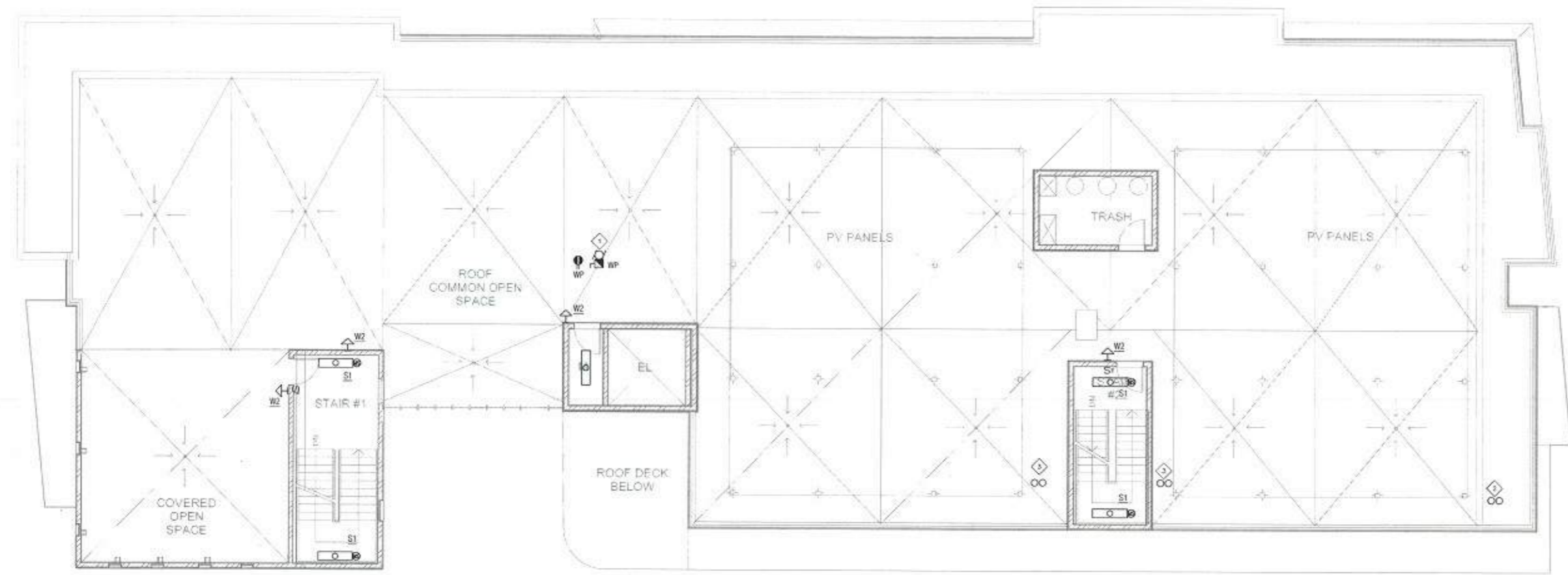
PALO ALTO HOUSING

725 Alma St
Palo Alto, CA 94301
(650) 321-0709

ROOF PLAN
ELECTRICAL

Job# 1779
Scale: AS NOTED

E2.6



1 ROOF PLAN - ELECTRICAL
SCALE: 3/16"=1'-0"

GENERAL NOTES:

1. COORDINATE LIGHT FIXTURE LAYOUT WITH ARCHITECT.
2. PROVIDE UN-INTERRUPTED HOT TO FIXTURES WITH EMERGENCY BATTERY PACK FROM SAME CIRCUIT IN THE SAME ROOM.
3. PROVIDE LIGHTING CONTROLS IN COMPLIANCE WITH TITLE 24, 2016.
4. UNLESS OTHERWISE NOTED, DIMMING OCCUPANCY SENSORS ARE MXTSTOPPER, WITH SUBSCRIPT MODEL NUMBER.

SHEET NOTES:

1. DIMMER SWITCH TO CONTROL LOBBY LIGHTS.
2. DIMMER SWITCH TO CONTROL CORRIDOR LIGHTS.
3. TYPICAL WALL MOUNTED DIMMING OCCUPANCY SENSOR.



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925-932-8805
- LANDSCAPE ARCHITECT
Hill Associates
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Alhambra, CA 91803
626-951-3184



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	10-22-17	PRELIMINARY DRAWING
	02-13-18	100% SD

Project:
950 W EL CAMINO REAL

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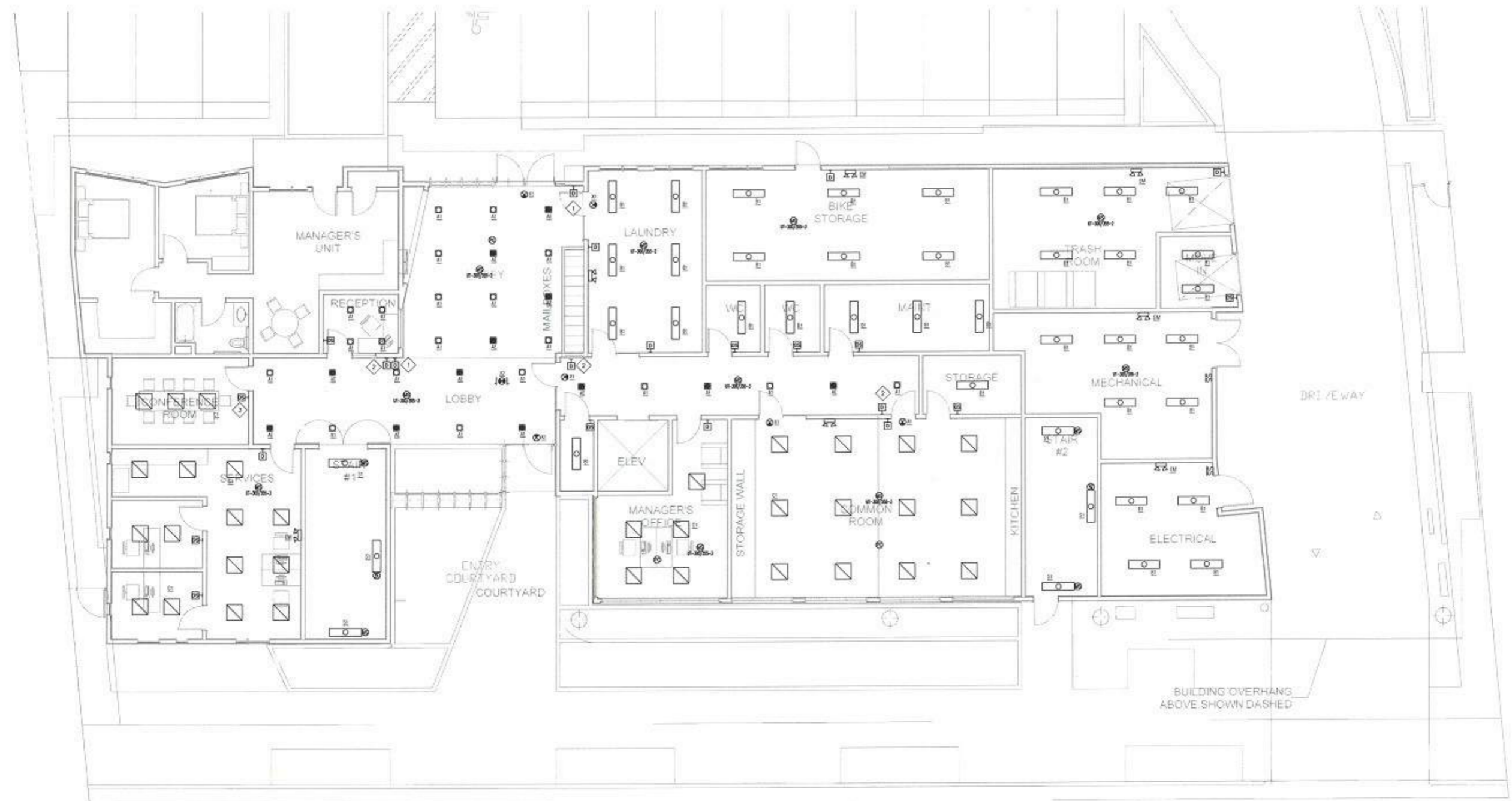
Client:
PALO ALTO HOUSING

725 Alma St
Palo Alto, CA 94301
(650) 321-9709

LEVEL 1
LIGHTING

Job#: 1779
Scale: AS NOTED

E3.1



LEVEL 1 - LIGHTING

GENERAL NOTES:

1. COORDINATE LIGHT FIXTURE LAYOUT WITH ARCHITECT.
2. PROVIDE UN-INTERRUPTED HOT TO FIXTURES WITH EMERGENCY BATTERY PACK FROM SAME CIRCUIT IN THE SAME ROOM.
3. PROVIDE LIGHTING CONTROLS IN COMPLIANCE WITH TITLE 24, 2016.
4. UNLESS OTHERWISE NOTED, COUNT OCCUPANCY SENSORS ARE WATSTOPPER, WITH SUBSCRIPT MODEL NUMBER.

SHEET NOTES:

1. LOCKABLE DIMMER SWITCH TO CONTROL CORRIDOR LIGHTS.
2. DIMMER SWITCH TO CONTROL LOUNGE LIGHTS.
3. WEATHERPROOF EXTERIOR SWITCH TO CONTROL TERRACE LIGHTS.
4. EXTERIOR RATED WEATHERPROOF MOTION SENSOR TO CONTROL TERRACE LIGHTS.
5. DIMMING WALL OCCUPANCY SENSOR.

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NO.	DATE	NAME
1	12-22-17	PRELIMINARY DRAWING
2	02-13-18	100% SD

Project:

950 W EL CAMINO REAL

950 W EL CAMINO REAL
MOUNTAIN VIEW, CA 94040

Client:

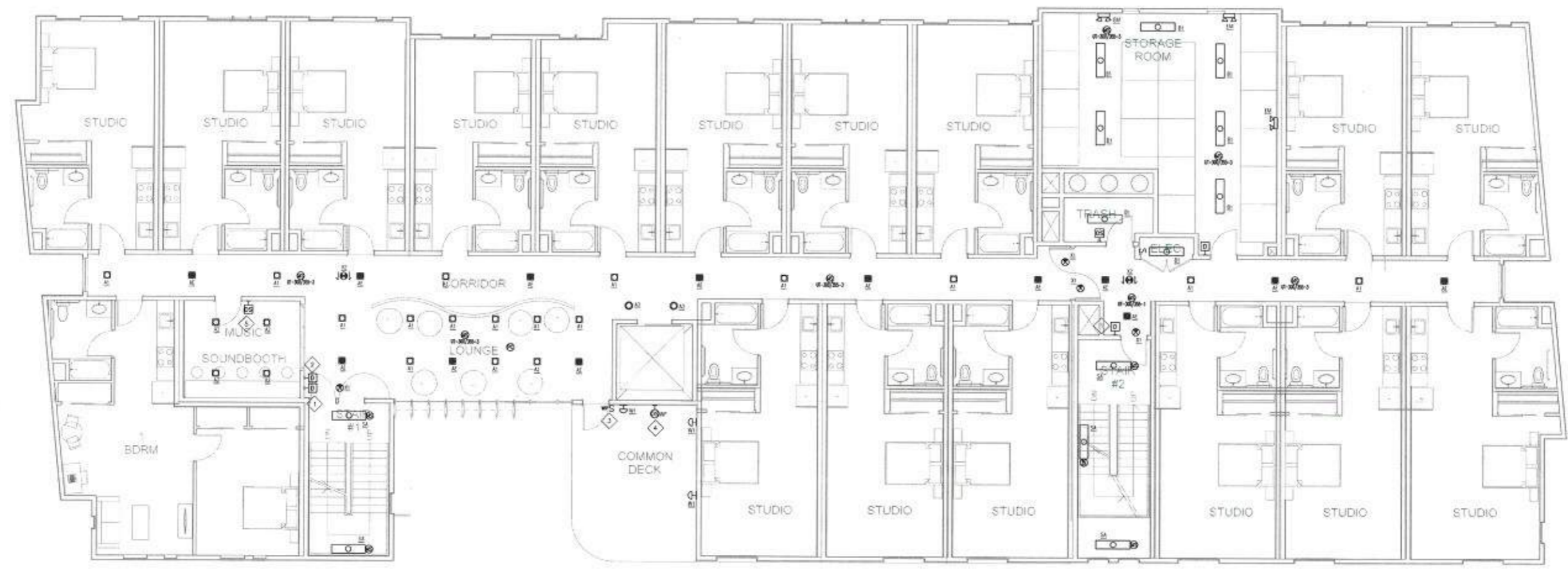
PALO ALTO HOUSING

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Palo Alto, CA 94301
(650) 321-8708

LEVEL 2
LIGHTING

Job#: 1779
Scale: AS NOTED

E3.2



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

GENERAL NOTES:

- COORDINATE LIGHT FEATURE LAYOUT WITH ARCHITECT.
- PROVIDE UN-INTERRUPTED HOT TO FIXTURES WITH EMERGENCY BATTERY PACK FROM SAME CIRCUIT IN THE SAME ROOM.
- PROVIDE LIGHTING CONTROLS IN COMPLIANCE WITH TITLE 24, 2016.
- UNLESS OTHERWISE NOTED, CEILING OCCUPANCY SENSORS ARE MATSTOPPER, WITH SUBSCRIPT MODEL NUMBER.

SHEET NOTES:

- LOCKABLE DIMMER SWITCH TO CONTROL CORRIDOR LIGHTS.
- DIMMER SWITCH TO CONTROL LOUNGE LIGHTS.
- WEATHERPROOF EXTERIOR SWITCH TO CONTROL TERRACE LIGHTS.
- EXTERIOR RATED WEATHERPROOF MOTION SENSOR TO CONTROL TERRACE LIGHTS.



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408-761-3164



ID	DATE	NAME
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02-15-18	02-15-18	100% SD

Project:
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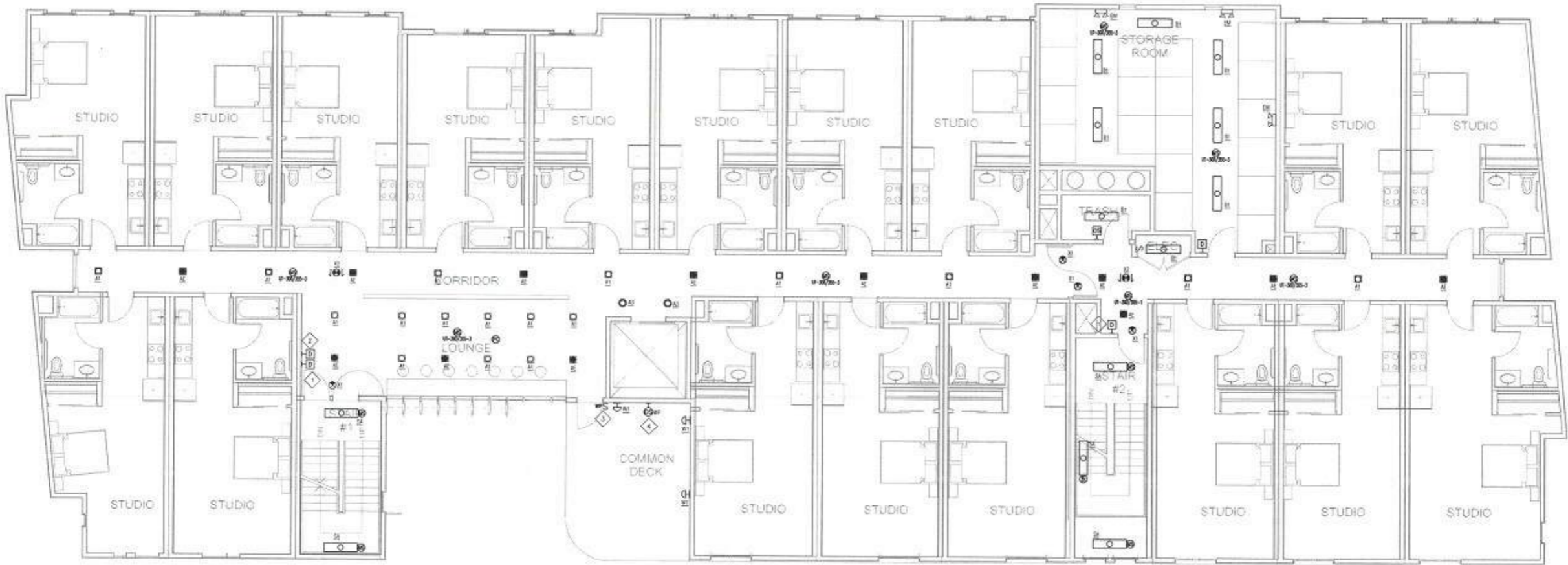
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Palo Alto, CA 94301
(650) 321-9709

LEVEL 4 LIGHTING

Job# 1779
Scale AS NOTED

E3.4



1 LEVEL 4 - LIGHTING
SCALE: 3/16"=1'-0"

- GENERAL NOTES:**
- COORDINATE LIGHT FIXTURE LAYOUT WITH ARCHITECT.
 - PROVIDE UN-INTERRUPTED HOT TO FIXTURES WITH EMERGENCY BATTERY PACK FROM SAME CIRCUIT IN THE SAME ROOM.
 - PROVIDE LIGHTING CONTROLS IN COMPLIANCE WITH ILLU. 34, 2016.
 - UNLESS OTHERWISE NOTED, CEILING OCCUPANCY SENSORS ARE WATERTIGHTER, WITH SUBSCRIPT MODEL NUMBER.
 - PROVIDE FOLLOWING LIGHTING LEVELS:
 - OFFICES: 45FC
 - LOBBIES: 30 FC
 - CORRIDORS AND MEANS OF EGRESS: 15FC
 - CONFERENCE ROOMS: 30 FC
 - RESTROOMS: 20 FC
 - COMPUTER ROOMS/DATA CENTER: 50FC
 - EXTERIOR LIGHTING: 2FC MAXIMUM.

- SHEET NOTES:**
- LOCKABLE DIMMER SWITCH TO CONTROL CORRIDOR LIGHTS.
 - DIMMER SWITCH TO CONTROL LOUNGE LIGHTS.
 - WEATHERPROOF EXTERIOR SWITCH TO CONTROL TERRACE LIGHTS.
 - EXTERIOR RATED WEATHERPROOF MOTION SENSOR TO CONTROL TERRACE LIGHTS.

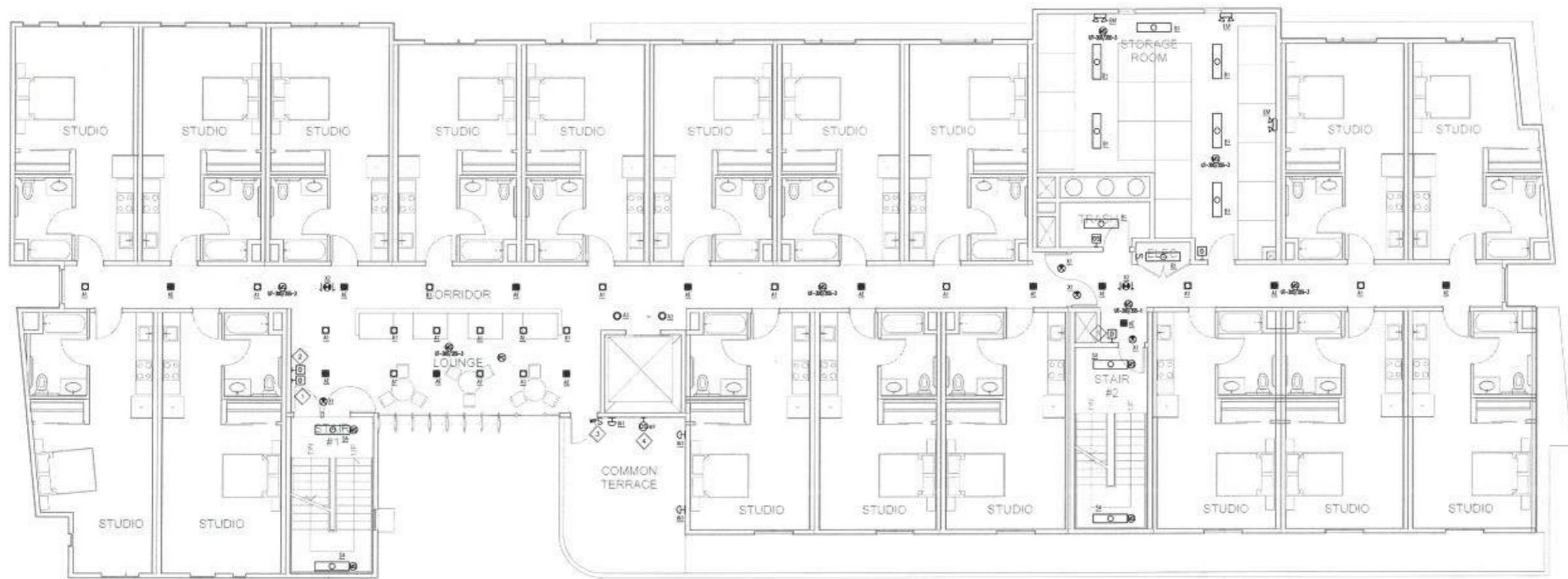
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ID	DATE	NAME
	10-22-10	PRELIMINARY DRAWING
	02-15-16	100% SD

Project:

950 W EL CAMINO REAL
 REAL

950 W EL CAMINO REAL
 MOUNTAIN VIEW, CA 94040

Client:

PALO ALTO HOUSING

725 Alma St
 Palo Alto, CA 94301
 (650) 321-9709

1 LEVEL 5 - LIGHTING
 SCALE: 3/16"=1'-0"

LEVEL 5
 LIGHTING

Job#: 1779
 Scale: AS NOTED

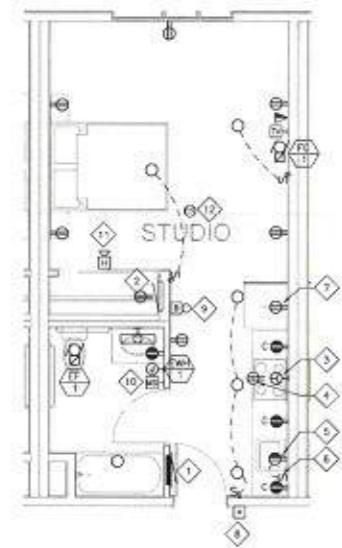
E3.5

SHEET NOTES:
(APPLICABLE TO ALL FLOOR PLANS)

- RESIDENTIAL UNIT SERVICE PANEL, UNIT SUB-PANEL BREAKERS SHALL NOT BE MORE THAN 48" APART.
- NETWORK INTERFACE CABINET (NIC) HEIGHT OF CABINET SHALL BE AT 5'-0" TO TOP OF CABINET. PROVIDE 120V RECEPTACLE INSIDE THE CABINET. SEE LOW VOLTAGE CONSULTANT DRAWINGS FOR EXACT LOCATION.
- ELECTRIC RANGE: 240V, 1Φ.
- MICROWAVE OVEN: 120V, 1Φ, 4550W DEDICATED 20A BREAKER. OUTLET TO BE AFCI PROTECTED. VERIFY OUTLET HEIGHT WITH INSTALLATION REQUIREMENTS.
- SPLIT DISPOSAL/DISHWASHER OUTLET (1/2 HOT) DISHWASHER OUTLET TO BE GFCI AND AFCI PROTECTED.
- DISPOSAL SWITCH, MOUNT ABOVE COUNTER HEIGHT. COORDINATE WITH ARCHITECTURAL DRAWINGS. SEE HANDICAP NOTES FOR INSTALLATION REQUIREMENTS ON HANDICAP UNITS.
- REFRIGERATOR: 120V, 1Φ. MOUNT RECEPTACLE AT +42" AFT UNLESS OTHERWISE NOTED.
- PUSH BUTTON AND DOOR BELL, NUDING, STUCCO PUSH BUTTON. COORDINATE LOCATION WITH ARCHITECTURAL DRAWINGS. SEE HANDICAP NOTES FOR INSTALLATION REQUIREMENTS ON HANDICAP UNITS.
- DOOR BELL CHIME LOW VOLTAGE TRANSFORMER
- MANUAL ON VACANCY SENSOR SHALL CONTROL VACANT LIGHT, EXHAUST FAN SHOULD RUN CONTINUOUSLY AT LOW SPEED, AND EXHAUST FAN TO TURN UP TO HIGH SPEED WHEN THE INTEGRAL MOTION SENSOR IS ACTIVATED. ALL EXH. FANS IN UNITS TO BE CONNECTED TO ONE DEDICATED CIRCUIT BREAKER & TAGGED CLEARLY.
- FIRE ALARM LOW FREQUENCY HORN. COORDINATE LOCATION WITH FIRE ALARM DRAWINGS PRIOR TO ROUGH-IN.
- 120V COMBINATION CARBON MONOXIDE AND SMOKE DETECTOR WITH INTEGRAL BATTERY BACK UP. SEE HANDICAP NOTES FOR INSTALLATION REQUIREMENTS. MAINTAIN MIN. 3" CLEAR FROM ALL HVAC REGISTERS AS WELL AS 3" AWAY FROM BATHROOM DOOR OPENINGS.
- 120V SMOKE DETECTOR WITH INTEGRAL BATTERY BACK UP UNIT. SEE HANDICAP NOTES FOR INSTALLATION REQUIREMENTS. MAINTAIN MIN. 3" CLEAR FROM ALL HVAC REGISTERS AS WELL AS 3" AWAY FROM BATHROOM DOOR OPENINGS.

GENERAL NOTES:
(APPLICABLE TO ALL FLOOR PLANS)

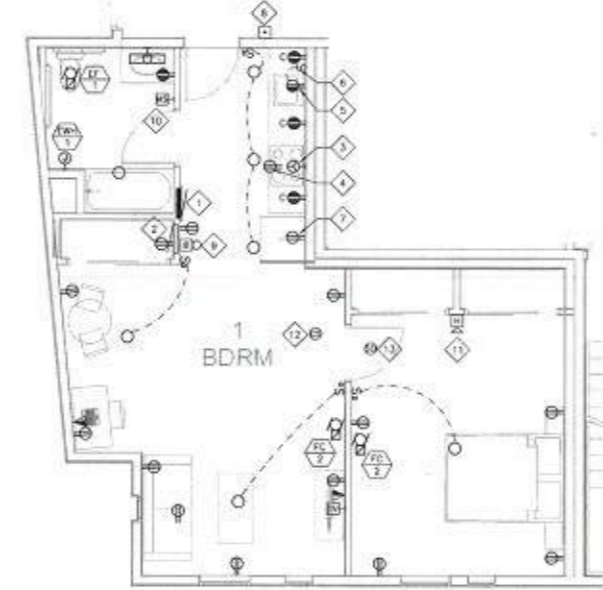
- COORDINATE AND VERIFY EXACT LOCATION OF ALL CEILING MOUNTED LIGHT FIXTURES AND OTHER ELECTRICAL DEVICES WITH MECHANICAL DWG'S AND ARCHITECT/DRAWER BEFORE ROUGH-IN.
- THE OUTLETS, DEVICES, LIGHT FIXTURES ETC. SHOWN ON UNIT PLANS ARE DIAGNOSTIC. THE EXACT LOCATION, MOUNTING HEIGHT, DETAIL, ETC. MUST BE VERIFIED WITH ARCHITECT AND SHALL COMPLY WITH ALL APPLICABLE CODES AND REGULATIONS.
- CONNECT ALL MECHANICAL EQUIPMENT TO ITS RESPECTIVE APT LOAD CENTER.
- OUTLET BOXES IN PLUMBING WALLS OR ON OPPOSITE SIDES OF SOUND RATED PARTITIONS ARE TO BE SEPARATED BY 16" AND ONE EMPTY SPLIT BAY. THE EXPOSED BACKS AND SIDES SHOULD BE TREATED WITH LOWVOLT'S PADS. LOW VOLTAGE DEVICES, SUCH AS CABLE AND TELEPHONE JACKS, SHOULD BE PLACED IN OUTLET BOXES TREATED AS SUCH.
- WHERE IT IS NOT POSSIBLE TO PROVIDE 16" SEPARATION, SUCH AS WITH CONVENIENCE OUTLETS IN SMALL APARTMENTS THAT CAN NOT BE RELOCATED, A GYPSUM BOARD OR SHEET METAL BACKED PLATE SHOULD BE ATTACHED TO THE INNER FACE OF ONE ROW OF STUDS. THE BACKING IS TO EXTEND 8" BEYOND THE EDGE OF THE BOXES IN QUESTIONS AS SHOWN ON ACQUISITION REPORT.
- RECESSED LIGHTING, SPEAKERS, ETC. SHOULD ONLY BE INSTALLED IN SOFFITS OR DROPPED CEILINGS. IF THEY ARE INSTALLED IN THE DEMISING CEILING, THEN THERE WILL NEED TO BE GYPSUM BOARD ENCLOSURES BEHIND THEM, WHICH WILL NEED TO BE FIRE SEALED IN A WAY THAT DOES NOT COMPROMISE THE ACoustICAL EFFECTIVENESS OF THE RESIDENT CHANNELS.
- ALL EXTERIOR ELECTRICAL DEVICES SHALL BE WEATHER PROOF.
- THE MOUNTING HEIGHT OF ALL DEVICES IN HANDICAPPED UNITS SHALL COMPLY WITH THE LATEST ADA REQUIREMENTS PLUS CRC & FFA REQUIREMENTS WHERE APPLICABLE.
- ALL THERMOSTATS ARE FURNISHED BY MECHANICAL. INSTALL AND CONNECT FOR FULL WORKING CONDITION. SEE MECHANICAL DWG'S FOR EXACT LOCATIONS AND REQUIREMENTS.
- PROVIDE TAMPER-RESISTANT RECEPTACLES FOR ALL 15A AND 20A, 120V RECEPTACLES.
- ALL GFCI OUTLETS IN BATHROOMS SHALL BE ON SEPARATE CIRCUITS PER NEC 210.52(D). OUTLETS SHALL BE MOUNTED 12" MAXIMUM FROM CENTERLINE OF OUTLET TO WALL (WHERE APPLICABLE).
- ALL KITCHEN RECEPTACLES INCLUDING ANY RECEPTACLES WITHIN 6' OF THE OUTSIDE EDGE OF A SINK MUST BE GFCI PROTECTED PER CDC 210.8(A) (7) INCLUDING DISHWASHERS (ECC210.8(C)).
- ALL 120-VOLT BRANCH CIRCUITS SUPPLYING OUTLETS INSTALLED IN KITCHEN, FAMILY, DINING, LIVING, PARLORS, DEN, BEDROOMS, LIBRARIES, RECREATION, SUNROOMS, CLOSETS, HALLWAYS OR SIMILAR ROOMS OR AREAS SHALL BE PROTECTED BY A LISTED ARC-Fault CIRCUIT INTERRUPTER PER CDC 210.12. THIS INCLUDES LIGHT FIXTURES, SMOKE DETECTORS, 120VOLT HEATERS, EXHAUST FANS, ETC.
- COORDINATE MECHANICAL HVAC EQUIPMENT WITH MECHANICAL PLANS. DUCTLESS FAN CEIL UNIT POWER FROM CONDENSER UNIT ON ROOF. VERIFY LOCATION WITH MECHANICAL.
- PRE-WIRE ALL RESIDENTIAL UNITS FOR HEARING IMPAIRED OCCUPANTS PER CFC 9022.9.1.
- ALL DWELLING UNITS SHALL BE EQUIPPED WITH ONE HORN IN THE LIVING AREA WITH THE CAPABILITY TO SUPPORT A VISUAL ALARM NOTIFICATION APPLIANCE.
- ALL BEDROOMS AND OR SLEEPING AREAS SHALL BE PRE-WIRED WITH BACK BOXES FOR FUTURE ADAPTABILITY OF VISUAL NOTIFICATION APPLIANCES.
- ALL BATHROOMS SHALL BE PRE-WIRED WITH BACK BOXES FOR FUTURE ADAPTABILITY OF VISUAL NOTIFICATION APPLIANCES.
- NOTIFICATION CIRCUITS SHALL BE SIZED TO ACCOMMODATE FUTURE APPLIANCES. VOLTAGE DROP CALCULATIONS SHALL INCLUDE AN ADDITIONAL 25% LOAD CAPACITY.
- DOOR BELL SYSTEM SHALL HAVE VISUAL SIGNAL.
- ALL INTERIOR AND EXTERIOR LIGHTING CONTROL MUST BE HIGH EFFICACY AND COMPLY WITH 2016 TITLE 24.
- ALL INTERIOR LIGHTING MUST BE CONTROLLED BY A DIMMER SWITCH OR VACANCY SENSOR EXCEPT HALLWAYS AND CLOSETS LESS THAN 70 SQUARE FEET.
- ALL LAUNDRY ROOMS, GARAGES, UTILITY ROOMS AND BATHROOMS MUST BE CONTROLLED BY VACANCY SENSOR.
- LIGHTING IN EXHAUST FANS MUST BE CONTROLLED SEPARATELY FROM FAN.
- ALL OUTDOOR LIGHTING IN PRIVATE PATIOS, ENTRANCES, BALCONIES AND PORCHES MUST BE HIGH EFFICACY CONTROLLED BY ONE OF THE FOLLOWINGS: 1. PHOTOCELL AND MOTION SENSOR 2. PHOTOCELL AND TIME SWITCH 3. ASTRONOMICAL TIME CLOCK.



1 STUDIO
SCALE: 1/4"=1'-0"



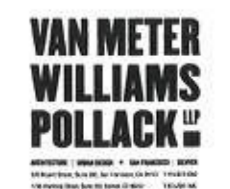
2 STUDIO
SCALE: 1/4"=1'-0"



3 1-BR
SCALE: 1/4"=1'-0"



4 MANAGER'S UNIT
SCALE: 1/4"=1'-0"



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ID	DATE	NAME
	12-22-17	PRELIMINARY DRAWING
	02-13-18	100% SD

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REAL
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ENLARGED UNIT PLANS
ELECTRICAL

Job#: 1779
Scale: AS NOTED

SCHEDULE NOTES

- VERIFY BREAKER RATING WITH EQUIPMENT. CORRESPONDING RATING.
- ALL NON-CORING 120VOLT, 15- AND 20-AMP RECEPTACLES INSTALLED IN DWELLING UNITS SHALL BE TAMPER RESISTANT AS REQUIRED PER NEC 408.12.
- SEE SHEET E-1 FOR UNIT FAN COIL & CONDENSING BREAKERS SIZE. COORDINATE FAN COIL & CONDENSING TYPE WITH MECHANICAL SCHEDULE AND DRAWING.
- ALL KITCHEN RECEPTACLES, DISHWASHER & DISPOSAL, BATHROOMS, LAUNDRY, GARAGE, OUTDOOR INCLUDING FROM DRIP, TUB & SHOWER SHALL BE GFCI PROTECTED PER NEC 210.8.
- ALL 120VOLT BRANCH CIRCUIT SUPPLYING OUTLETS INSTALLED IN KITCHEN, FAMILY, DINING, LIVING, PARLORS, DEN, BEDROOMS, LIBRARIES, RECREATION, SUNROOMS, CLOSET, HALLWAYS, BREAK ROOMS OR AREAS SHALL BE PROTECTED BY ALIQUOT AFCI CIRCUIT INTERRUPTER PER NEC 210.12. THIS INCLUDES LIGHT FIXTURES, SMOKE DETECTORS, 120VOLT HEATERS, EXHAUST FANS, ETC.
- GFCI OUTLETS IN BATHROOMS SHALL BE ON A SEPARATE 20 AMP CIRCUIT PER NEC 210.11(C).
- BASED ON 80KVA AVAILABLE FAULT CURRENT AND DISTANCE. LOAD CENTERS SHALL HAVE THE FOLLOWING SHORT CIRCUIT RATING:
 * TO 50' DISTANCE: 20 KVA
 * 50 TO 99' DISTANCE: 30 KVA
 * 100 AND MORE DISTANCE: 40 KVA
 HOWEVER, THE SHORT CIRCUIT RATING CAN BE ADJUSTED IF THE AVAILABLE SHORT CIRCUIT RATING IS DIFFERENT. CONTRACTOR TO PROVIDE CALCULATIONS TO SUPPORT THE CHANGES.
- CONTRACTOR MAY USE #14 AWG CONDUCTORS FOR LIGHTING AND RECEPTACLE CIRCUITS WHERE #12 AWG IS USED. USE 20 AMP CIRCUIT BREAKERS.
- WHERE BATHROOM FAN IS USED FOR FRESH AIR SUPPLY PROVIDE A DEDICATED BREAKER CIRCUIT FOR EXHAUST FAN. PROVIDE LABEL FOR BREAKER STATING "BREAKER FOR TOILET EXHAUST FAN. THIS BREAKER TO BE ON AT ALL TIME".
- CONTRACTOR MAY USE LISTED COMBINATION AFCI & GFCI BREAKERS FOR KITCHEN, DISHWASHER, DISPOSAL AND LAUNDRY RECEPTACLES TO COMPLY WITH CODE REQUIRED READILY ACCESSIBLE MEANS FOR GFCI.

TYPE: PLUS-IN			LOAD CENTER			MAIN: M/C						
SERVICE: 120/208V-1P-2W			BUSES: 125A			MTC: RECESSED						
BUS: 125A			AIC: (7)									
LOAD SERVED	LCL	KVA	BREAKER	TRIP	NO. POLES	PHASES	TRIP	NO. POLES	PHASES	KVA	LCL	LOAD SERVED
GENERAL LIGHTING (3)(3)(3)	20	1	A	2	1	20						EXHAUST FAN (5)
GENERAL LIGHTING (3)(3)(3)	20	1	B	4	1	20						MICROWAVE/HOOD (5)
GENERAL LIGHTING (3)(3)(3)	20	1	A	6	1	20						SMALL APPLIANCE (3)(4)(3)
GENERAL LIGHTING (3)(3)(3)	20	1	B	8	1	20						SMALL APPLIANCE (3)(4)(3)
BATHROOM RCPT (3)(3)	20	1	A	18	1	20						DISHWASHER (3)(4)(3)
IND (3)(3)	20	1	B	12	1	20						GARBAGE DISPOSAL (3)(4)(3)
CONDENSER UNIT (3)(3)	XX	XX	A	14	50							RANGE (1)
	2	15	A	16	2							
	3	15	A	18	2							
	4	15	A	20	2							
	5	15	A	22	2							
	6	15	A	24	2							
	7	15	A	26	2							
	8	15	A	28	2							
	9	15	A	30	2							
	10	15	A	32	2							
	11	15	A	34	2							
	12	15	A	36	2							
	13	15	A	38	2							
	14	15	A	40	2							
	15	15	A	42	2							
	16	15	A	44	2							
	17	15	A	46	2							
	18	15	A	48	2							
	19	15	A	50	2							
	20	15	A	52	2							
	21	15	A	54	2							
	22	15	A	56	2							
	23	15	A	58	2							
	24	15	A	60	2							
	25	15	A	62	2							
	26	15	A	64	2							
	27	15	A	66	2							
	28	15	A	68	2							
	29	15	A	70	2							
	30	15	A	72	2							
	31	15	A	74	2							
	32	15	A	76	2							
	33	15	A	78	2							
	34	15	A	80	2							
	35	15	A	82	2							
	36	15	A	84	2							
	37	15	A	86	2							
	38	15	A	88	2							
	39	15	A	90	2							
	40	15	A	92	2							
	41	15	A	94	2							
	42	15	A	96	2							
	43	15	A	98	2							
	44	15	A	100	2							

3 TYP. APARTMENT LOAD CENTER
SCALE: NOT TO SCALE

VOLTAGE DROP CALCULATIONS (COPPER CONDUCTOR) 2%

WIRE SIZE VS DISTANCE 75C (IN FEET)

APARTMENT TYPE	LOAD (AMP)	#2 (AWG)	#1 (AWG)	#1/2 (AWG)	#3/8 (AWG)	#20 (AWG)	#16 (AWG)	#14 (AWG)	#12 (AWG)	#10 (AWG)	#8 (AWG)	#6 (AWG)
70	148	180	234	284	373	475	555	666				
75	158	173	210	275	345	475	518	602				
80	150	183	225	287	320	475	488	583				
STUDIOS 1 BED	85	122	183	193	242	267	475	557	549			
90	115	144	182	228	280	475	430	510				
2 BED	85	109	137	172	217	275	475	409	491			
100	108	130	164	208	251	475	388	468				
105	90	124	156	188	250	475	376	444				
110	94	118	150	187	237	475	353	424				
115	90	113	142	180	227	475	338	408				
120	X	108	136	172	217	475	324	388				
125	X	104	130	168	208	475	311	373				
130	X	100	125	158	206	475	300	366				

- NOTE:
- CONTRACTOR SHALL PROVIDE ADAPTER TO REDUCE CONDUCTOR SIZE TO CONNECT TO PANEL/LOAD CENTER BUS AS REQUIRED
 - CONTRACTOR TO FIELD VERIFY LENGTH AND SIZE OF FEEDER ADEQUATE FOR VOLTAGE DROP

VOLTAGE DROP CALCULATIONS (ALUMINUM CONDUCTOR) 2%

WIRE SIZE VS DISTANCE 75C (IN FEET)

APARTMENT TYPE	LOAD (AMP)	#2 (AWG)	#1 (AWG)	#1/2 (AWG)	#3/8 (AWG)	#20 (AWG)	#16 (AWG)	#14 (AWG)	#12 (AWG)	#10 (AWG)	#8 (AWG)	#6 (AWG)
70	90	117	148	187	230	287	350	420	481			
75	80	110	137	174	220	277	327	387	458			
80	X	103	130	164	205	268	307	370	430			
STUDIOS 1 BED	85	X	87	122	154	184	245	289	340	400		
90	X	91	115	148	183	236	273	327	382			
2 BED	85	X	87	109	138	174	220	258	310	362		
100	X	82	104	130	165	205	243	294	344			
105	X	X	89	124	157	198	234	280	327			
110	X	X	84	120	169	190	223	267	312			
115	X	X	90	114	144	180	214	258	300			
120	X	X	88	109	138	173	200	245	286			
125	X	X	X	108	132	166	198	235	276			
130	X	X	X	108	127	160	188	220	265			

- NOTE:
- CONTRACTOR SHALL PROVIDE ADAPTER TO REDUCE CONDUCTOR SIZE TO CONNECT TO PANEL/LOAD CENTER BUS AS REQUIRED
 - CONTRACTOR TO FIELD VERIFY LENGTH AND SIZE OF FEEDER ADEQUATE FOR VOLTAGE DROP

GENERAL NOTES:

- VERIFY AVAILABLE SHORT CIRCUIT RATING WITH POSE PRIOR TO ORDERING EQUIPMENT. AC RATING OF ALL EQUIPMENT SHALL BE EQUAL OR GREATER THAN AVAILABLE SHORT CIRCUIT.
- MAIN SWITCHBOARDS TO BE 100% RATED

SHEET NOTES:

- IF POSE SMART METER CONDUIT IS RUN UNDERGROUND OR IN CONCRETE ROAD STEEL MUST BE USED. IF POSE SMART METER CONDUIT IS RUN SURFACE MOUNT EMT CONDUIT CAN BE USED.
- GROUND PER DETAIL 3E51
- TO EQUIPMENT HOUSING MIN. 800 MCM CU PER NEC 250.28 & 408.3C
- SEE DETAILS 2 FOR UNIT TYPICAL PANEL SCHEDULE. FEEDER SCHEDULE WITH VOLTAGE DROP.
- PROVIDE 2#10 AWG WIRE FROM ELEVATOR SHUNT TRIP BREAKER TO THE ELEVATOR MACHINE ROOM
- VERIFY DISCONNECT, BRANCH CIRCUIT BREAKER, CONDUCTORS AND FUSE SIZE WITH ELEVATOR SHOP DRAWING.
- PROVIDE DESIGNATED SPACE IN ELECTRICAL ROOM FOR P-V SOLAR DISCONNECT. PROVIDE SPACE ON ROOF FOR FUTURE P-V SOLAR INVERTER/DISCONNECT. COORDINATE WITH ARCHITECT.
- 6"X6"X2' BOX ON TOP OF METERING SECTION PER POSE REQUIREMENTS. VERIFY WITH UTILITY.
- 2" CONDUIT MUST TERMINATE IN ENCLOSURE 8 TO 10 FEET ABOVE GRADE ON OUTSIDE OF BUILDING. 6"X6"X2' NEMA 3R WITH FACE PLATE. VERIFY WITH UTILITY.

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FEEDER SCHEDULE

FEEDER TAG	(COPPER CONDUCTORS)				CONDUIT	MAXIMUM PROTECTIVE DEVICE	(ALUMINUM CONDUCTORS)			
	PHASE	NEUTRAL	EQUIP. @ GROUND	CONDUIT			PHASE	NEUTRAL	EQUIP. @ GROUND	CONDUIT
30	3#12	1#10	1#10	(1) 3/4"	30A/3P	3#8	1#8	1#8	(1) 3/4"	
40	3#8	1#8	1#10	(1) 3/4"	40A/3P	3#6	1#6	1#8	(1) 1.00"	
60	3#6	1#6	1#10	(1) 1.00"	60A/3P	3#2	1#2	1#6	(1) 1.25"	
70	3#4	1#4	1#8	(1) 1.25"	70A/3P	3#2	1#2	1#6	(1) 1.25"	
80	3#2	1#2	1#8	(1) 1.25"	90A/3P	3#10	1#10	1#8	(1) 2.00"	
90	3#2	1#2	1#8	(1) 1.25"	100A/3P	3#10	1#10	1#8	(1) 2.00"	
100A	3#2	1#2	1#8	(1) 1.25"	100A/3P	2#10	1#10	1#8	(1) 2.00"	
102	3#1	1#1	1#8	(1) 1.50"	125A/3P	3#10	1#10	1#8	(1) 2.00"	
103A	3#1	1#1	1#8	(1) 1.50" OR ECR CABLE	125A/3P	3#10	1#10	1#8	(1) 1.50"	
103	3#10	1#10	1#8	(1) 2.00"	150A/3P	3#10	1#10	1#8	(1) 2.00"	
103A	3#10	1#10	1#8	(1) 1.50"	150A/3P	2#10	1#10	1#8	(1) 2.00"	
103	3#10	1#10	1#8	(1) 1.50"	175A/3P	3#10	1#10	1#8	(1) 2.50"	
105A	3#10	1#10	1#8	(1) 2.50"	175A/3P	2#10	1#10	1#8	(1) 2.50"	
200	3#10	1#10	1#8	(1) 2.00"	200A/3P	3#25	1#25	1#8	(1) 3.00"	
201	3#10	1#10	1#8	(1) 2.50"	225A/3P	3#30	1#30	1#8	(1) 3.00"	
202	3#10	1#10	1#8	(1) 3.00"	250A/3P	3#35	1#35	1#8	(1) 3.00"	
203	3#10	1#10	1#8	(1) 3.00"	275A/3P	3#50	1#50	1#8	(1) 3.00"	
300	3#10	1#10	1#8	(1) 3.00"	300A/3P	3#50	1#50	1#8	(1) 3.00"	
400	3#10	1#10	1#8	(1) 4.00"	400A/3P	2 (3#50)	2#25	2#1	(2) 3.00"	
500	2 (3#10)	2#25	2#1	(2) 3.00"	500A/3P	2 (3#50)	2#50	2#10	(2) 3.00"	
600	2 (3#10)	2#50	2#1	(2) 3.00"	600A/3P	2 (3#50)	2#50	2#20	(2) 3.00"	
800	2 (3#10)	2#10	2#1</							

