VILLA STREET

MOUNTAIN VIEW , CALIFORNIA

PROJECT TEAM

APPLICANT / OWNER
PROMETHEUS REAL ESTATE GROUP, INC.
1900 SOUTH NORFOLK STREET
SUITE 150
SAN MATEO, CA
P: 650.931.3457

ARCHITECT
SEIDEL ARCHITECTS
545 SANSOME ST.
SUITE 901
SAN FRANCISCO, CA 94111
P: 415.397.5535

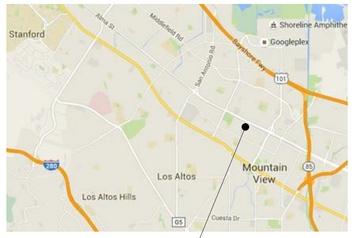
LANDSCAPE ARCHITECT
2.INK STUDIO
107 SE WASHINGTON ST.
#228
PORTLAND, OR 97214
P: 503.546.4645

CIVIL ENGINEER
KIER & WRIGHT
3350 SCOTT BOULEVARD
BUILDING 22
SANTA CLARA, CA 95054
P: 408.727.5641

MEP ENGINEER
EMERALD CITY ENGINEERS
6505 216TH ST SW
SUITE 200
MOUNTLAKE TERRACE, WA 98043
P: 425.741.1200

JOINT TRENCH
GIACALONE DESIGN SERVICES
8080 SANTA TERESA BLVD.
SUITE 240
GILROY, CA 95020
P: 925.467.1740

AREA MAP



PROJECT DESCRIPTION:

1696 Villa Street is a 226 unit apartment community proposed for a 3.29 acre site located between Higdon Avenue and Mariposa Avenue. It is conveniently located within walking and biking distance of the Downtown Mountain View Station. The neighborhood surrounding the site is characterized by two to four story multifamily residential buildings as well as one and two story residences.

The design incorporates a new approximately 0.4 acre public park facing Villa Street offering a significant new amenity to the neighborhood. The two and three story apartments visible from Villa Street and adjacent to the new park are designed to evoke a townhouse character that will be compatible with the surrounding homes and apartments. A leasing office is located on Villa Street, and the main entry is located to the east of that. Two interior courtyards offer space for outdoor resident amenities, and are defined by 4 and 5 levels of apartments. The fifth level is located in the center of the site and is designed to minimize visibility to the surrounding neighborhood. The shingled gabled roof forms give the building a traditional neighborhood character while also obscuring the upper stories from view. The character of the community is further enhanced through the use of warm toned wood materials including shingles and horizontal siding. Bay windows, awnings, and projected trellises are also incorporated into the design.

The entry to the garage is located on Villa Street at the southwest corner of the site. The garage is located below grade.

A continuous pedestrian walk is located on the perimeter of the project. On the west side of the project, a setback of 38'-3" will provide a significant landscaped setback to the neighbors located on Higdon Avenue, and is designed to accomodate a future bike path connecting to the neighborhood on the north of Caltrain and Central Expressway.

PROJECT INFORMATION

ZONING:	VILLA-MARIPOSA PRECISE PLAN
APN:	SEE OWNERS INFORMATION
LOT AREA:	143,315 SF / 3.29 ACRES
RESIDENTIAL DENSITY:	68.7 DU/ACRE
BUILDING COVERAGE:	SEE A5.1.1
FLOOR AREA RATIO:	SEE A5.1.1
OPEN SPACE:	SEE A5.2

OCCUPANCY CLASSIFICATIONS

R-2	RESIDENTIAL
A-3	POOL/COURTYARD, LOUNGE, FITNESS
S-2	PARKING GARAGE
ACCESSORY	ROOF DECK

TYPE OF CONSTRUCTION

GARAGE:	TYPE IA
RESIDENTIAL	TYPE IIIA

PARKING

	# UNITS	PARKING
JR BR	15	15
1BR	124	124
2BR	82	164
3BR	5	15
TOTAL PARKING REQUIRED		318
RESIDENT SPACES PROVIDED		270
GUEST SPACES PROVIDED		48
TOTAL PARKING PROVIDED		318

BICYCLE PARKING

REQUIRED (1 PER D.U.) =	226
PROVIDED =	226

TENANT STORAGE

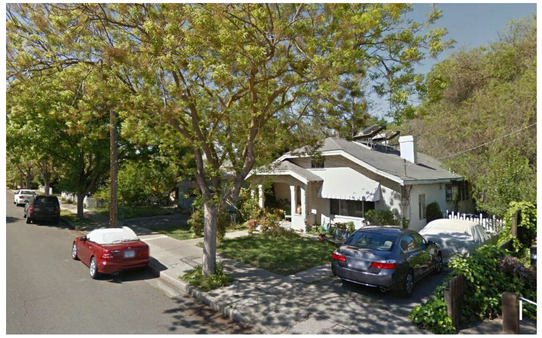
REQUIRED (1 PER D.U. @ 164 CF MIN.) =	226
PROVIDED (LOWER GARAGE) =	226

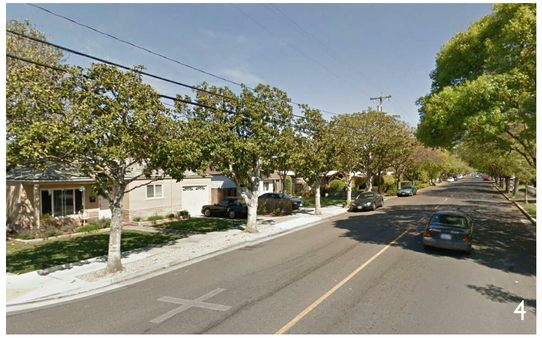
DRAWING INDEX

UNIT TABULATION

Unit Type	JR-1	1A-1	1B	1C	1D	1E	1G-1	1G-2	1H	1J	2A-1	2A-2	2B-1	2B-2	2C	2D	3A	3B	TOTALS
Upper Garage			2				2			1			2	1					8
Ground floor	1	7	4				12	1			15	1	5				1		47
2nd floor	4	8	4	2	2		10	1		1	16	1	5				1		55
3rd floor	4	12	4				9	2		2	12	4	5		1				55
4th floor	4	12	4			4		8		1	2	10	1			1			47
5th floor	2	3	2			1		1	2									3	14
Totals	15	42	20	2	2	5	33	13	2	5	45	16	18	1	1	1	2	3	**226**
SF/unit	705	790	760	700	925	785	775	670	842	865	1,160	995	1,175	1,130	1,210	1,050	1,345	1,590	
Total SF per unit type	10,575	33,180	15,200	1,400	1,850	3,925	25,575	8,710	1,684	4,325	52,200	15,920	21,150	1,130	1,215	1,050	2,690	4,770	**206,549**
Total Units by No....	15	124									82						5		
% of Total	6.6%	54.9%									36.3%						2.2%		

No. Bedrooms 318





SEIDEL ARCHITECTS

PROMETHEUS

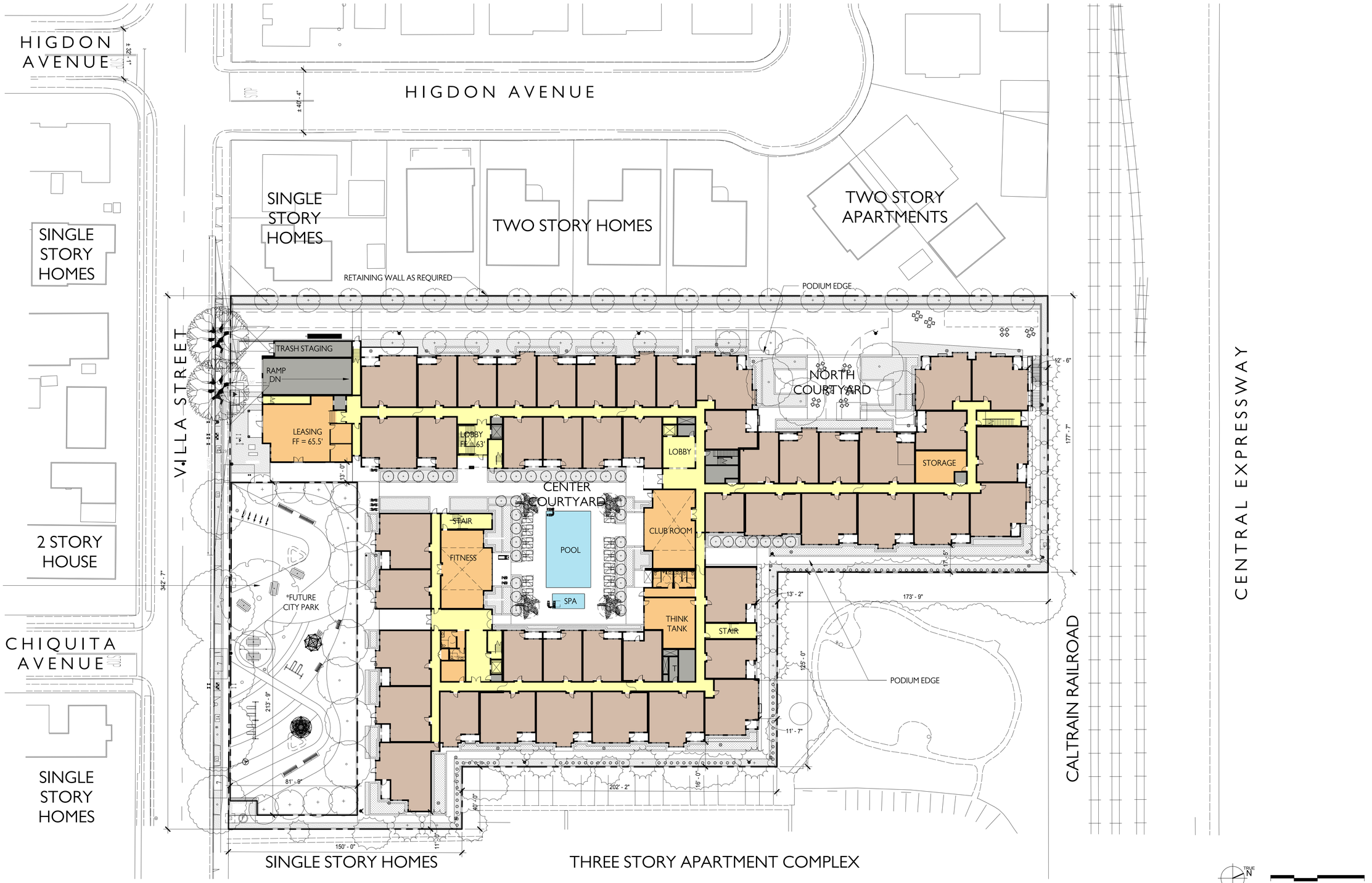
VILLA STREET

MOUNTAIN VIEW, CA

A1.1

SITE/NEIGHBORHOOD CONTEXT PHOTOS

06/21/2018



*SPACE FOR FUTURE CITY PARK WILL BE USED FOR STAGING PURPOSES DURING CONSTRUCTION PHASE. PARK CONSTRUCTION BY THE CITY OF MOUNTAIN VIEW SHALL BEGIN AFTER THE PROMETHEUS PROJECT IS COMPLETED.

SEIDEL ARCHITECTS

PROMETHEUS

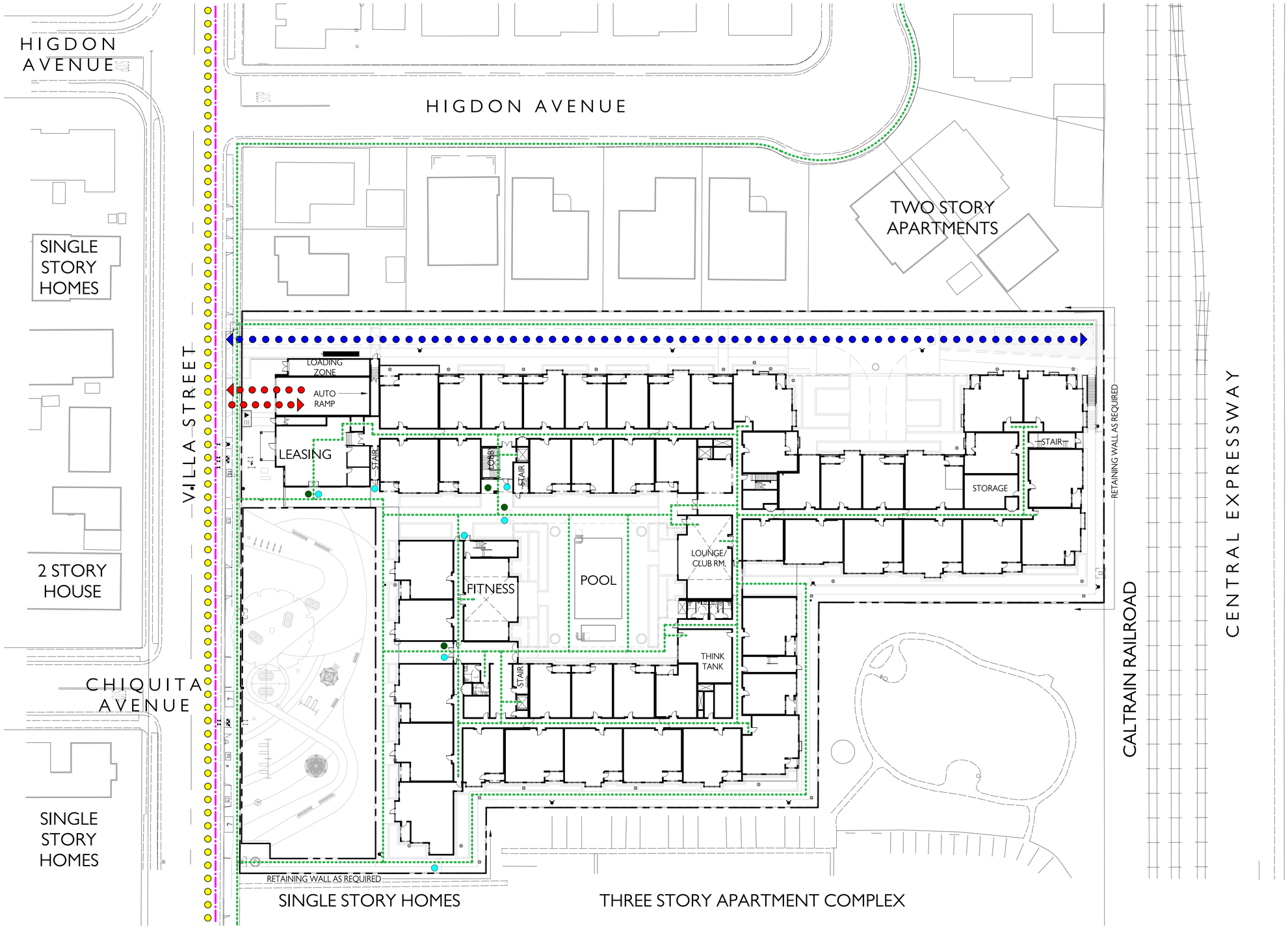
VILLA STREET

MOUNTAIN VIEW, CA

A1.2

CONCEPTUAL SITE PLAN

06/21/2018



SEIDEL ARCHITECTS

PROMETHEUS

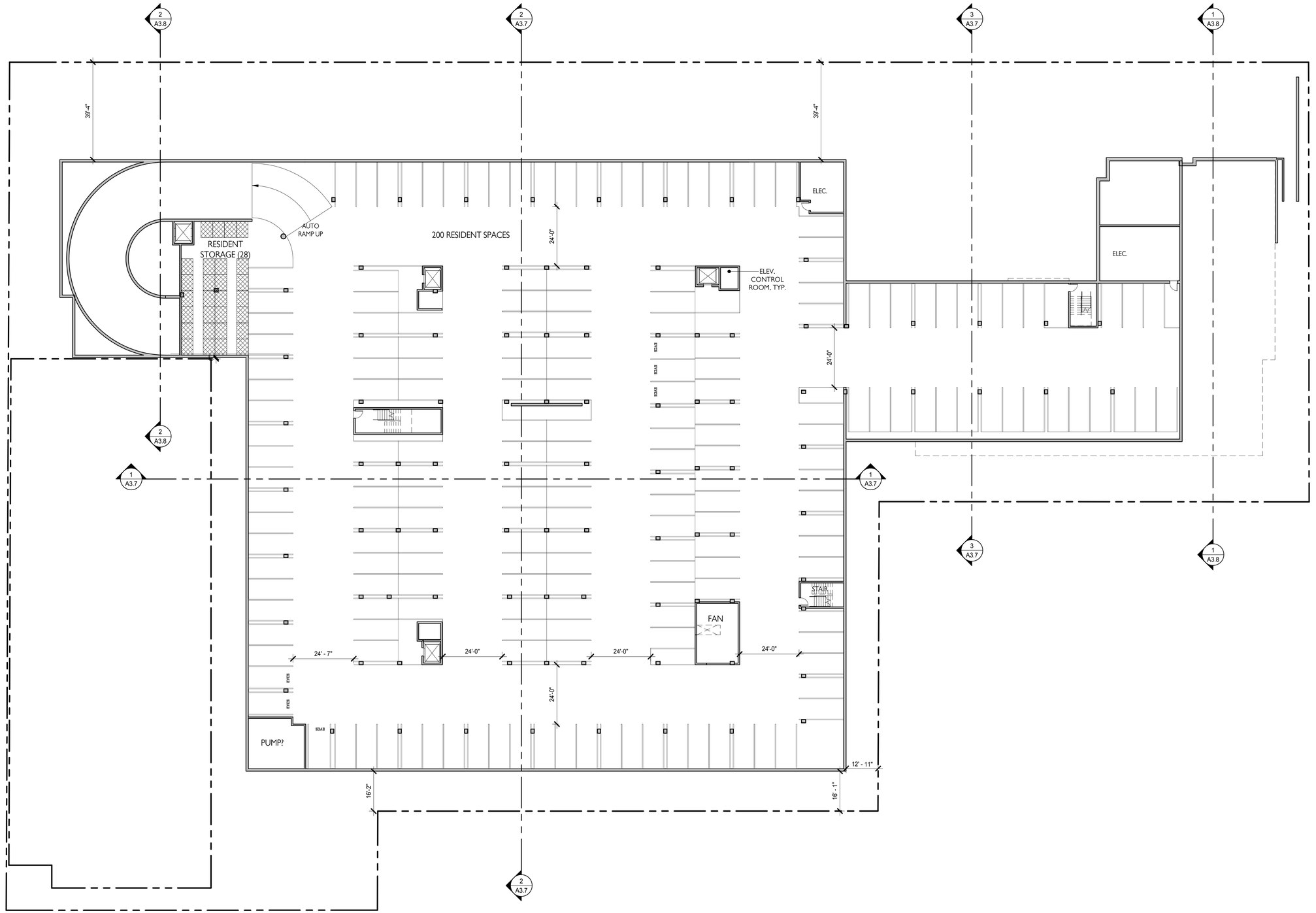
VILLA STREET

MOUNTAIN VIEW, CA

A1.3

VEHICULAR & PEDESTRIAN CIRCULATION PLAN

06/21/2018



TRUE N

0' 10' 20' 40'

SEIDEL ARCHITECTS

PROMETHEUS

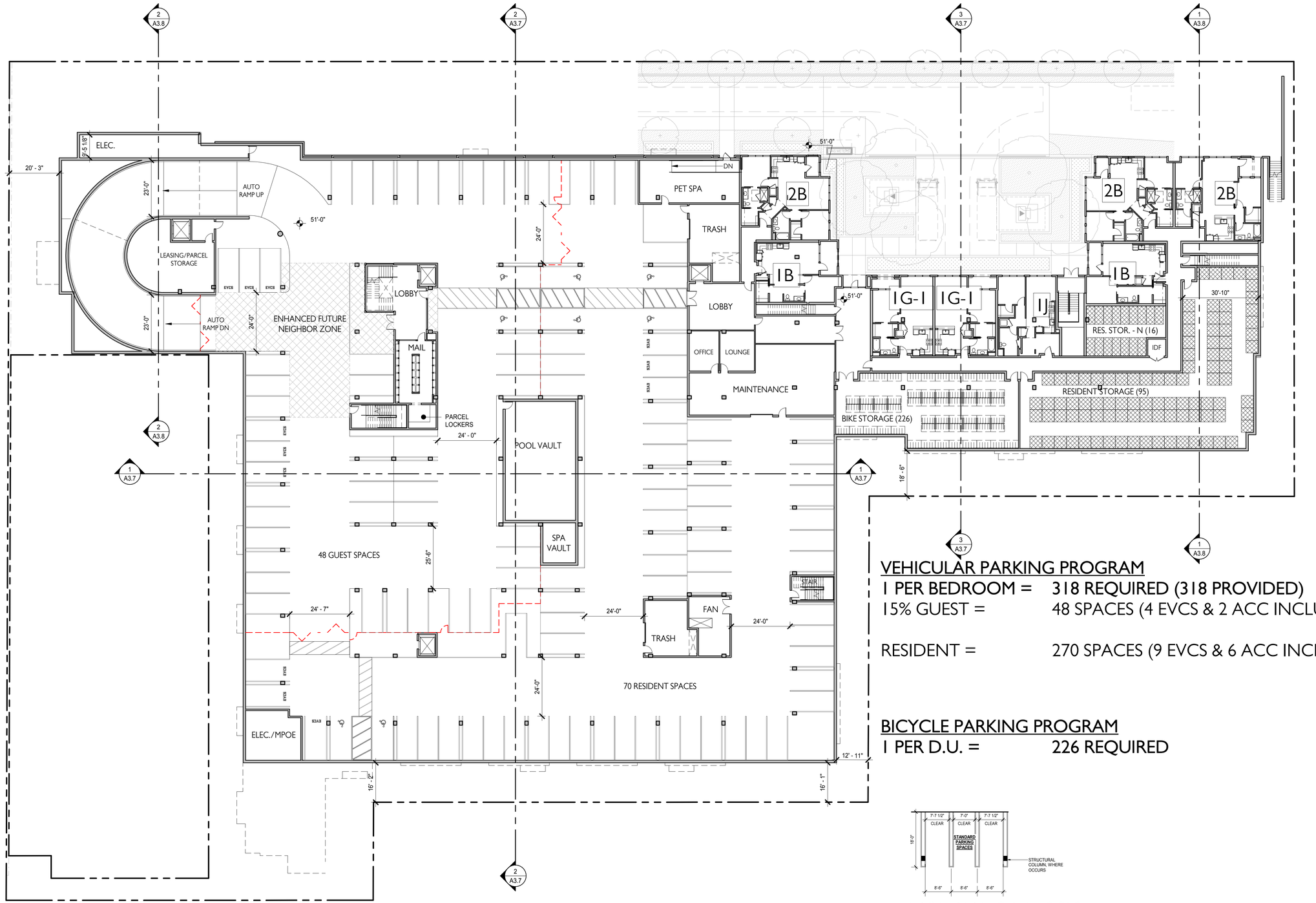
VILLA STREET

MOUNTAIN VIEW, CA

A2.0.1

LOWER GARAGE PLAN

06/21/2018



VEHICULAR PARKING PROGRAM

1 PER BEDROOM =	318 REQUIRED (318 PROVIDED)
15% GUEST =	48 SPACES (4 EVCS & 2 ACC INCLUSIVE)
RESIDENT =	270 SPACES (9 EVCS & 6 ACC INCLUSIVE)

BICYCLE PARKING PROGRAM

1 PER D.U. =	226 REQUIRED

TYPICAL PARKING DIMENSIONS

TRUE N

0' 10' 20' 40'

SEIDEL ARCHITECTS

PROMETHEUS

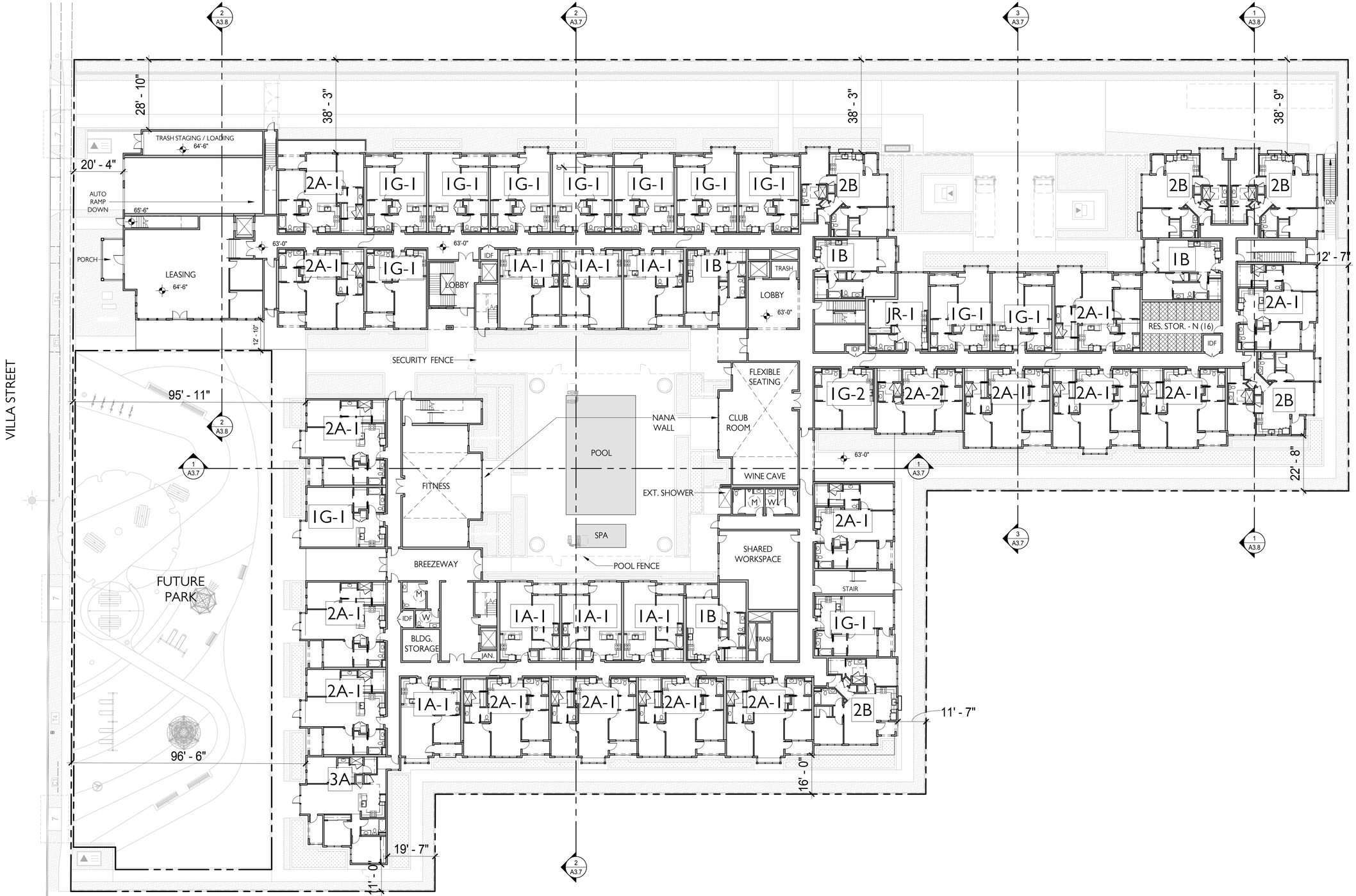
VILLA STREET

MOUNTAIN VIEW, CA

A2.0.2

UPPER GARAGE PLAN

06/21/2018



SEIDEL ARCHITECTS

PROMETHEUS

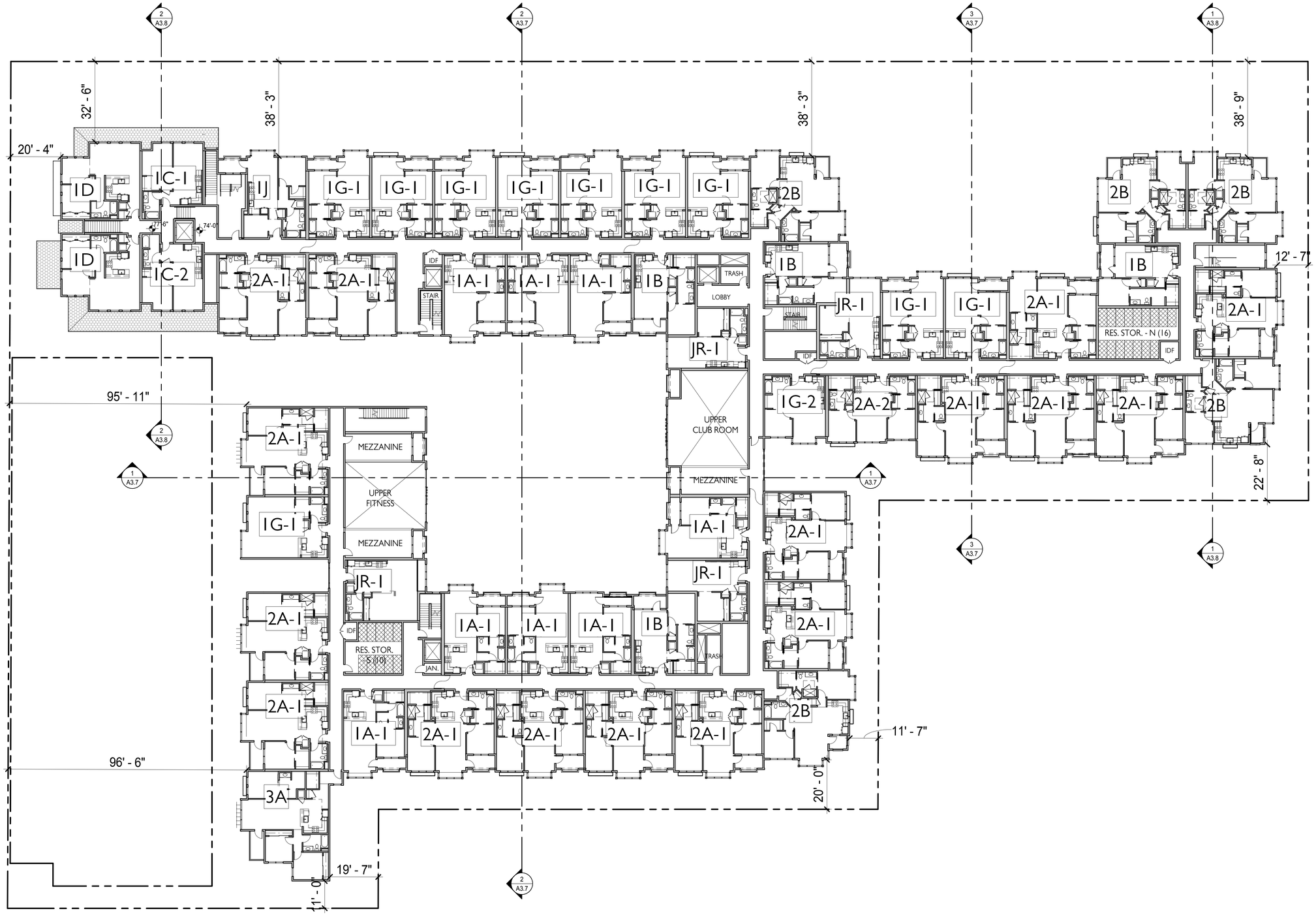
VILLA STREET

MOUNTAIN VIEW, CA

A2.1

GROUND FLOOR PLAN

06/21/2018



SEIDEL ARCHITECTS

PROMETHEUS

VILLA STREET

MOUNTAIN VIEW, CA

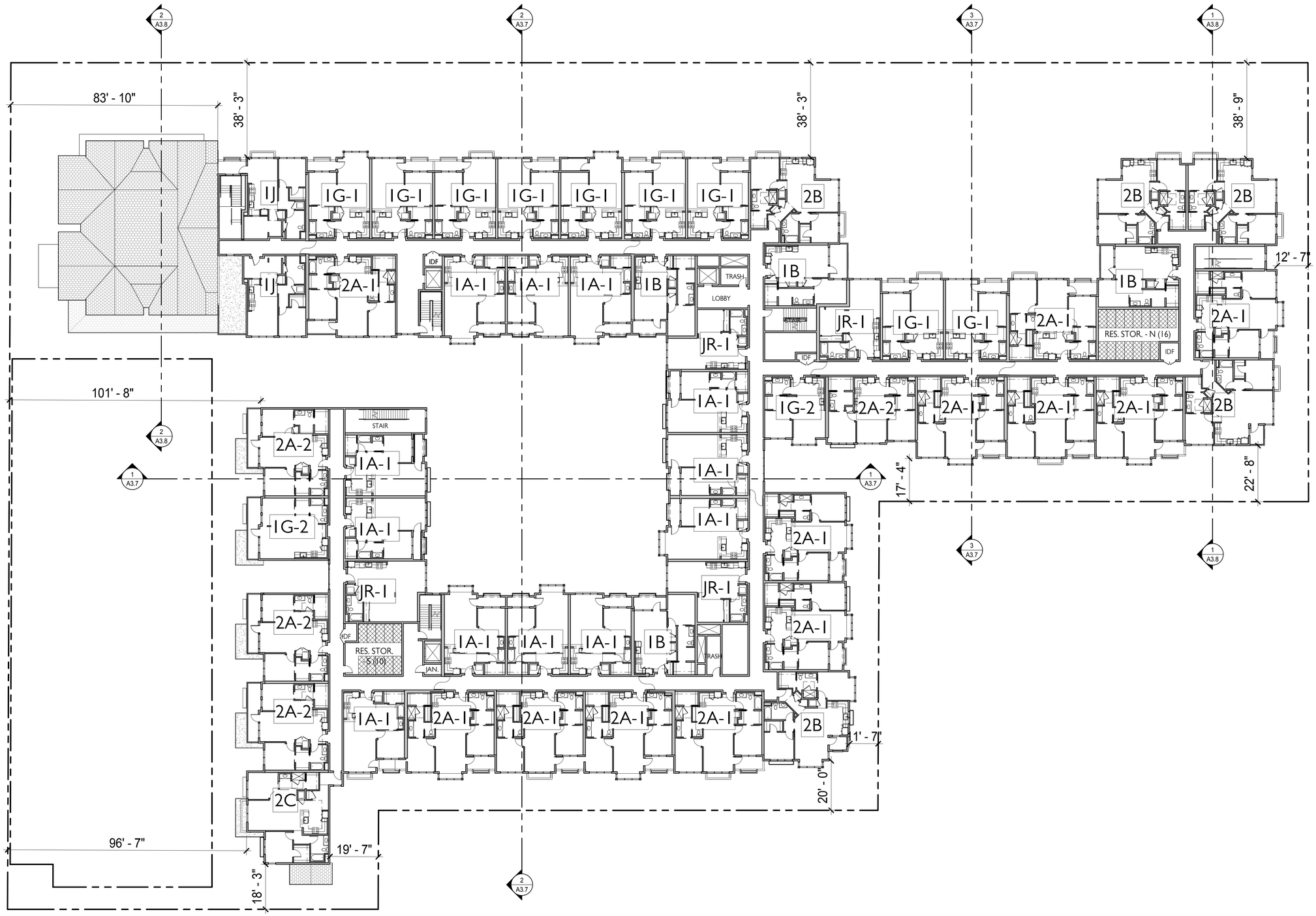
TRUE N

0' 10' 20' 40'

A2.2

SECOND FLOOR PLAN

06/21/2018



SEIDEL ARCHITECTS

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PROMETHEUS

VILLA STREET

MOUNTAIN VIEW, CA

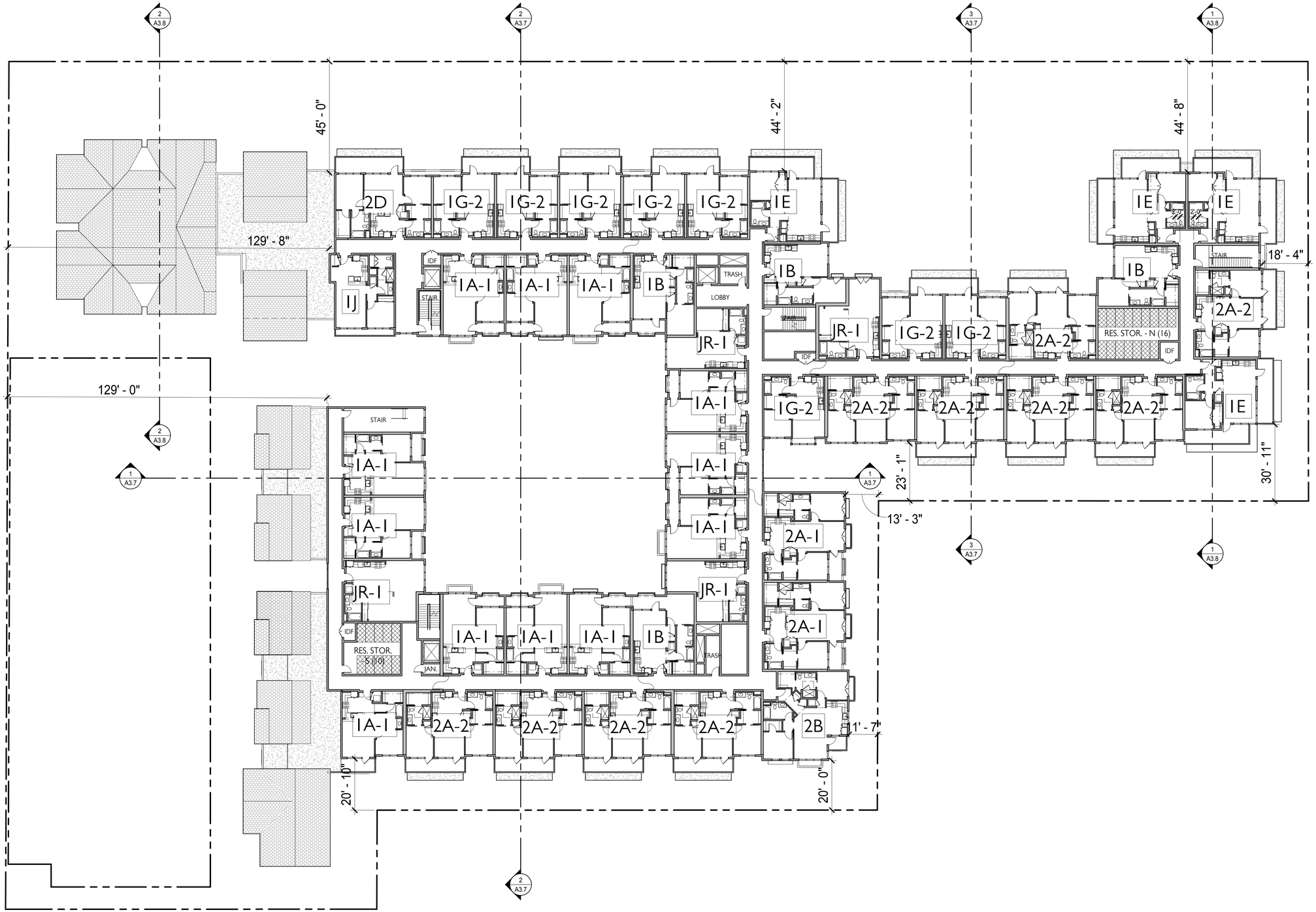
TRUE N

0' 10' 20' 40'

A2.3

THIRD FLOOR PLAN

06/21/2018



TRUE N

0' 10' 20' 40'

SEIDEL ARCHITECTS

PROMETHEUS

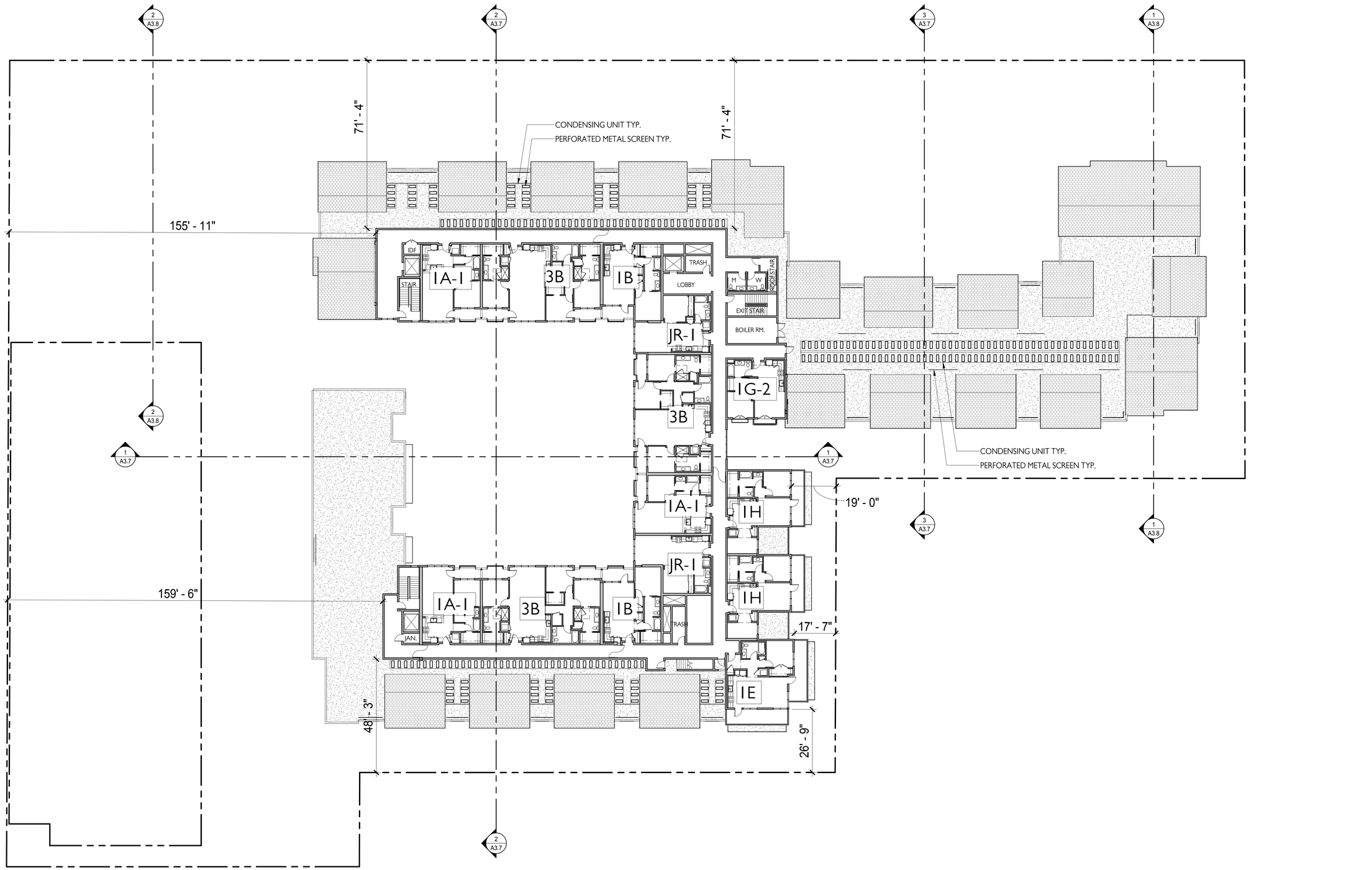
VILLA STREET

MOUNTAIN VIEW, CA

A2.4

FOURTH FLOOR PLAN

06/21/2018



TRUE N

0' 10' 20' 40'

SEIDEL ARCHITECTS

PROMETHEUS

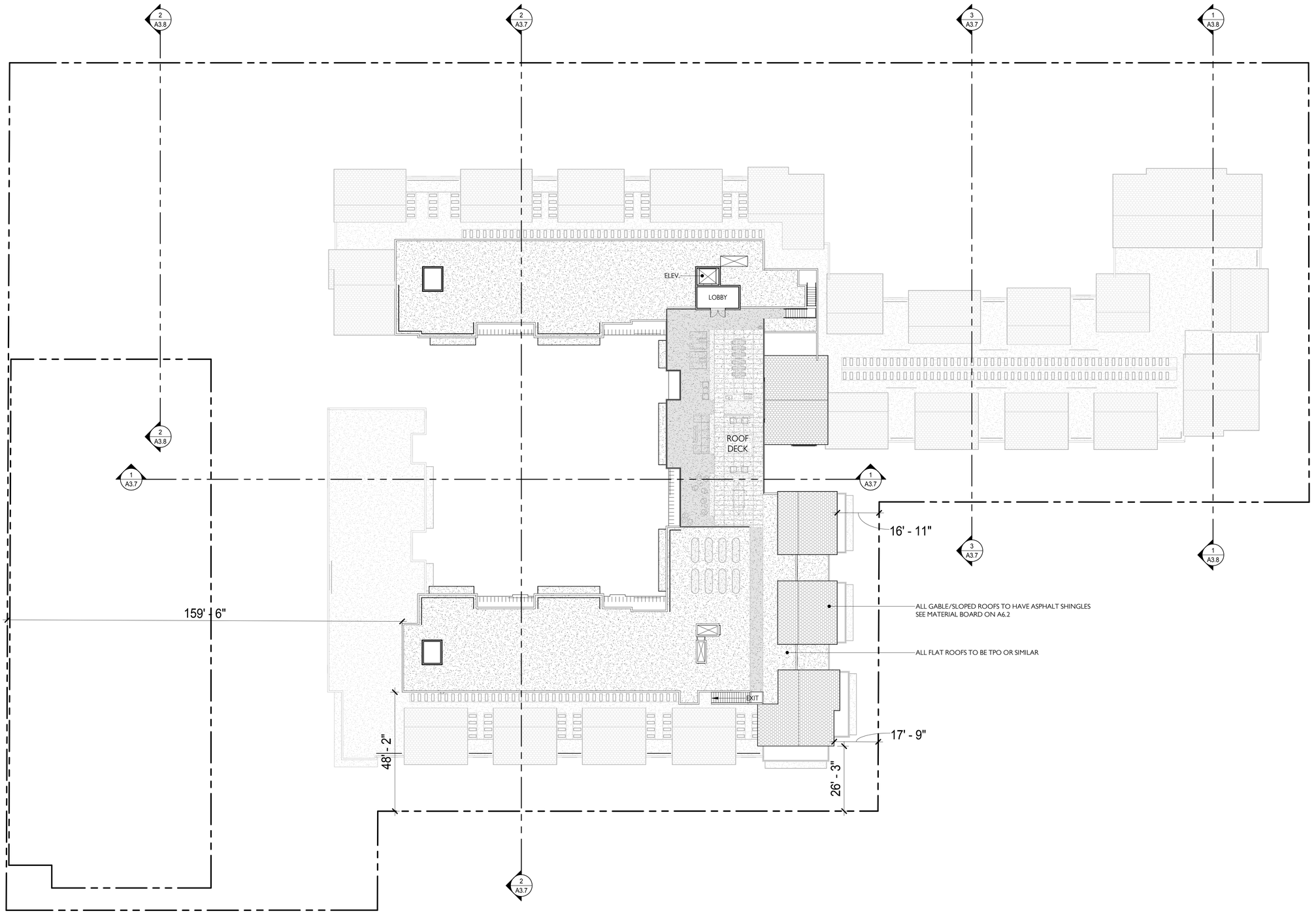
VILLA STREET

MOUNTAIN VIEW, CA

A2.5

FIFTH FLOOR PLAN

06/21/2018



TRUE N

0' 10' 20' 40'

SEIDEL ARCHITECTS

PROMETHEUS

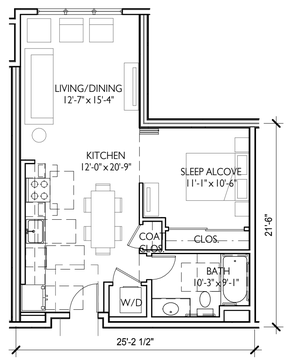
VILLA STREET

MOUNTAIN VIEW, CA

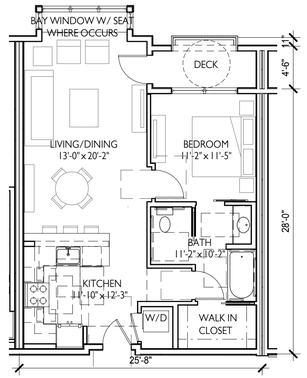
A2.6

ROOF PLAN

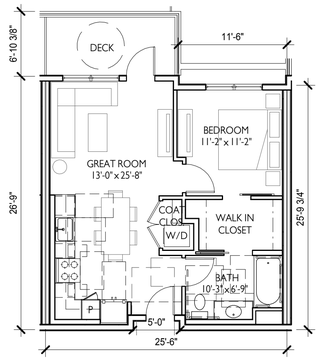
06/21/2018



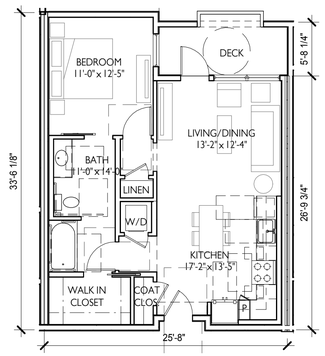
UNIT JR-1



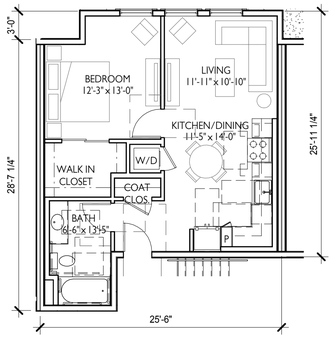
UNIT 1A-1



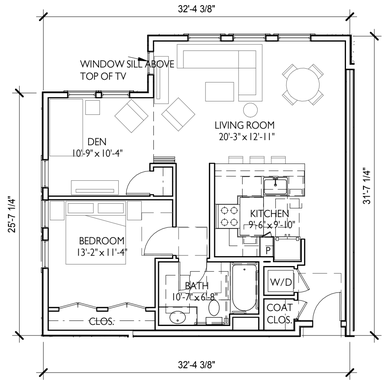
UNIT 1G-2



UNIT 1B



UNIT 1C



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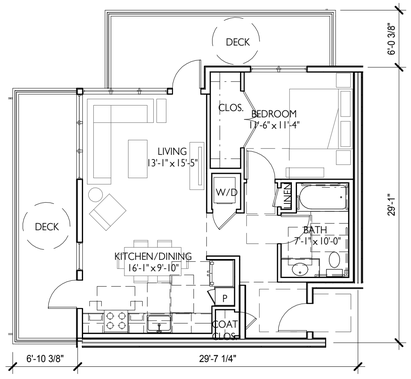

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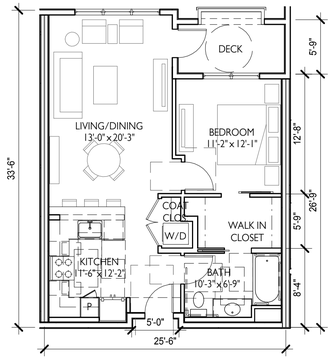
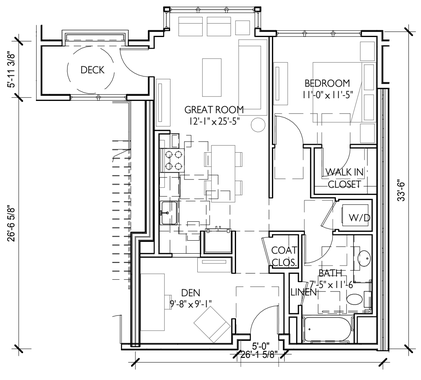


UNIT 1G-1

UNIT 1H



UNIT 1J

0' 4' 8' 16'

SEIDEL ARCHITECTS

PROMETHEUS

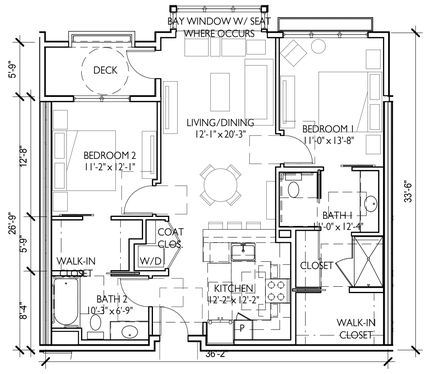
VILLA STREET

MOUNTAIN VIEW, CA

A2.7

1BR UNIT PLANS

06/21/2018



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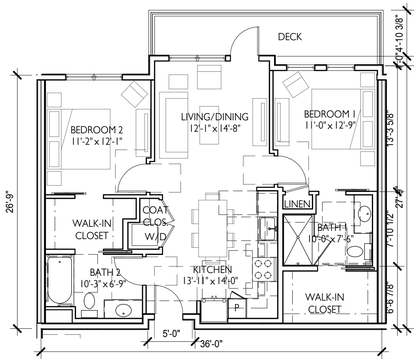
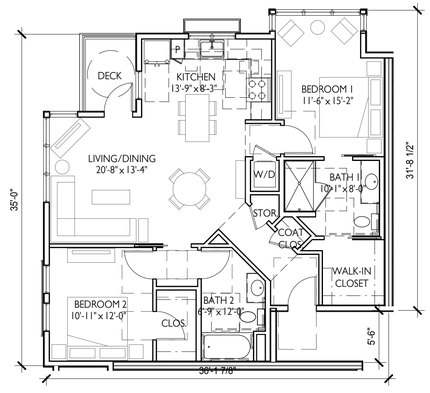


UNIT 2A-2



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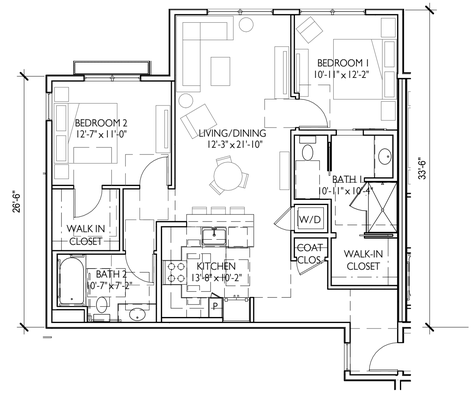
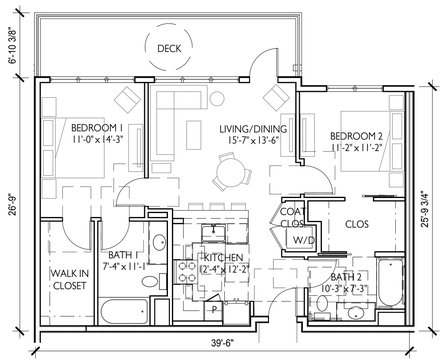
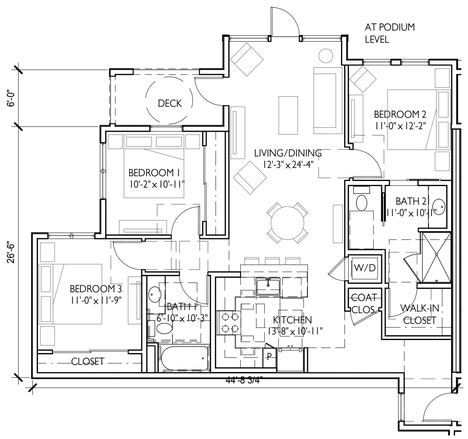


UNIT 2C



UNIT 2D



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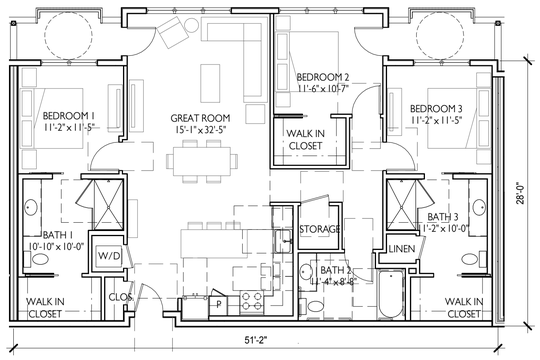


UNIT 3B

0' 4' 8' 16'

VILLA STREET

MOUNTAIN VIEW, CA

A2.8

2BR & 3BR UNIT PLANS

06/21/2018

VILLA ST. / PARK ELEVATION (SOUTH)

LEASING ELEVATION (AT PARK)

0' 5' 10' 20'

SEIDEL ARCHITECTS

PROMETHEUS

VILLA STREET

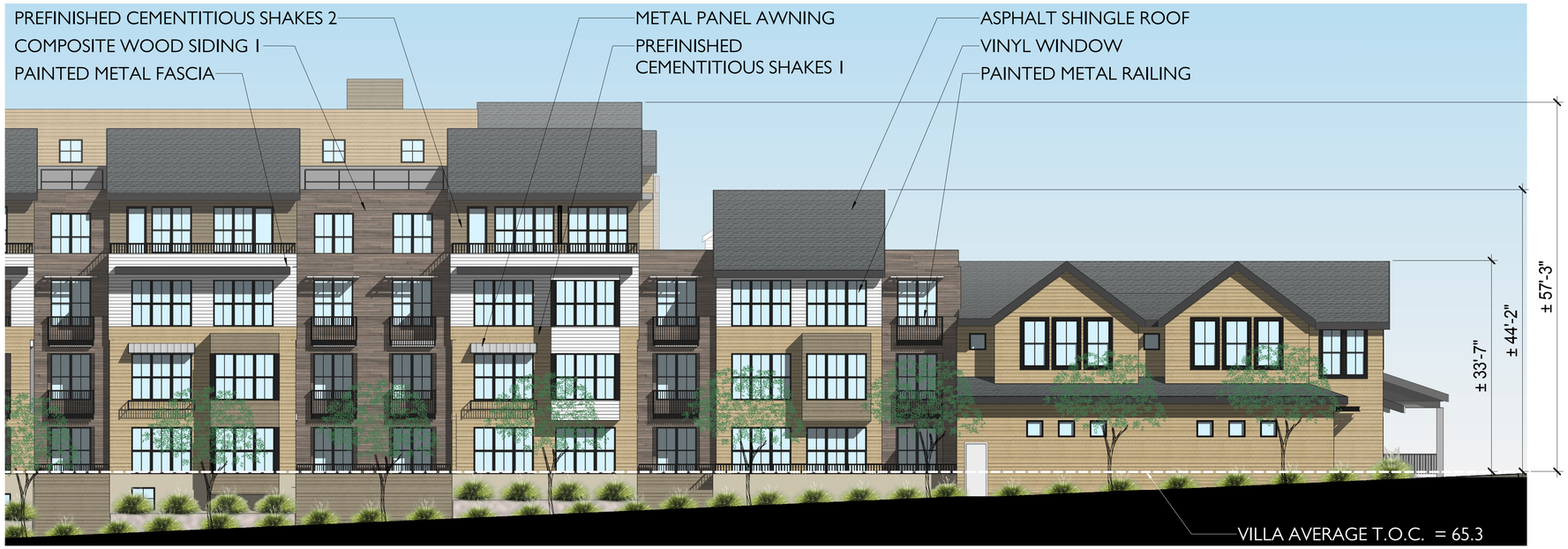
MOUNTAIN VIEW, CA

A3.1

CONCEPTUAL ELEVATIONS

06/21/2018

BIKE PATH ELEVATION (WEST)



BIKE PATH ELEVATION (WEST) - Dependent 1

0' 5' 10' 20'

SEIDEL ARCHITECTS

PROMETHEUS

VILLA STREET

MOUNTAIN VIEW, CA

A3.2

CONCEPTUAL ELEVATIONS

06/21/2018

CALTRAIN ELEVATION (NORTH)

0' 5' 10' 20'

SEIDEL ARCHITECTS

PROMETHEUS

VILLA STREET

MOUNTAIN VIEW, CA

A3.3

CONCEPTUAL ELEVATIONS

06/21/2018

EAST ELEVATION - SOUTHERN PARTIAL

EAST ELEVATION - NORTHERN PARTIAL

0' 5' 10' 20'

SEIDEL ARCHITECTS

PROMETHEUS

VILLA STREET

MOUNTAIN VIEW, CA

A3.4

CONCEPTUAL ELEVATIONS

06/21/2018

CENTER COURT - EAST ELEVATION

CENTER COURT - NORTH ELEVATION

0' 5' 10' 20'

SEIDEL ARCHITECTS

PROMETHEUS

VILLA STREET

MOUNTAIN VIEW, CA

CEMENTITOUS HORIZONTAL SIDING 1

PREFINISHED CEMENTITIOUS SHAKES 1

VINYL WINDOW

PAINTED METAL RAILING

54' - 2"

WOOD SUNSHADE

PAINTED METAL FASCIA

METAL PANEL AWNING

CEMENTITIOUS HORIZONTAL SIDING 2

PREFINISHED CEMENTITIOUS SHAKES 2

WOOD TRIM

COMPOSITE WOOD SIDING 1

VILLA AVERAGE T.O.C. = 65.3

CENTER COURT - SOUTH ELEVATION

PAINTED METAL FASCIA

WOOD SUNSHADE

PREFINISHED CEMENTITIOUS SHAKES 2

CEMENTITIOUS HORIZONTAL SIDING 2

PAINTED METAL RAILING

VINYL WINDOW

CEMENTITIOUS HORIZONTAL SIDING 1

PREFINISHED CEMENTITIOUS SHAKES 1

54' - 2"

VILLA AVERAGE T.O.C. = 65.3

CENTER COURT - WEST ELEVATION

0' 5' 10' 20'

SEIDEL ARCHITECTS

PROMETHEUS

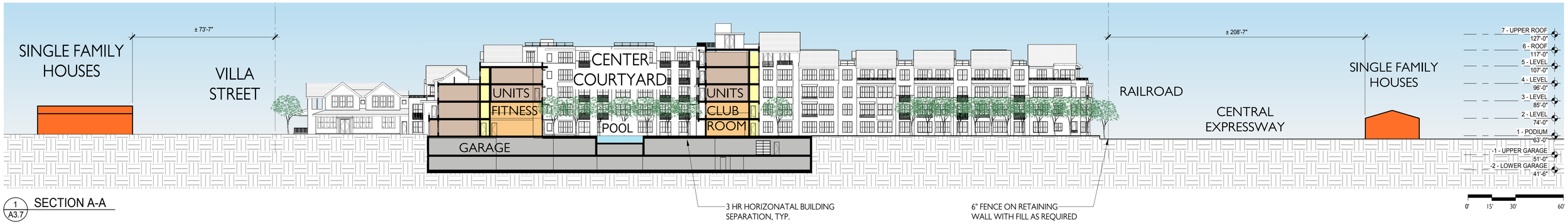
VILLA STREET

MOUNTAIN VIEW, CA

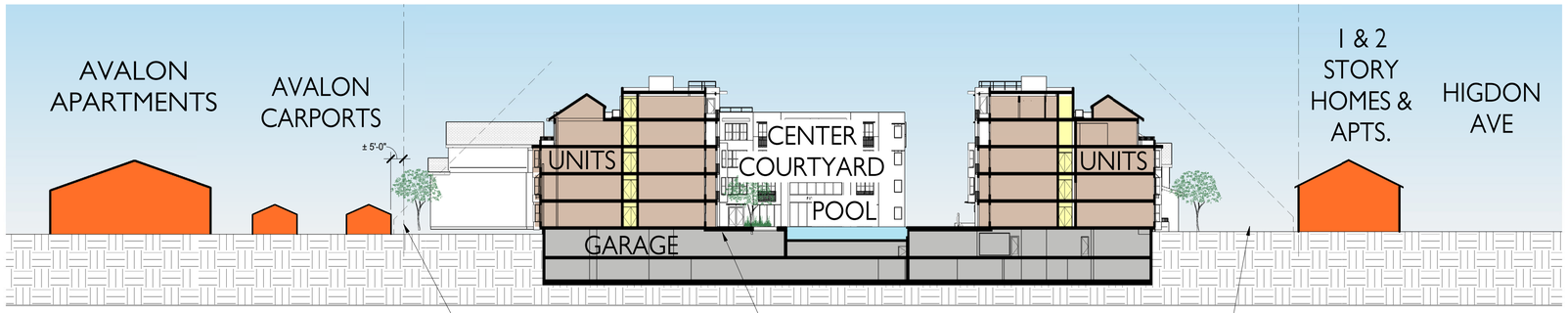
A3.6

CONCEPTUAL ELEVATIONS

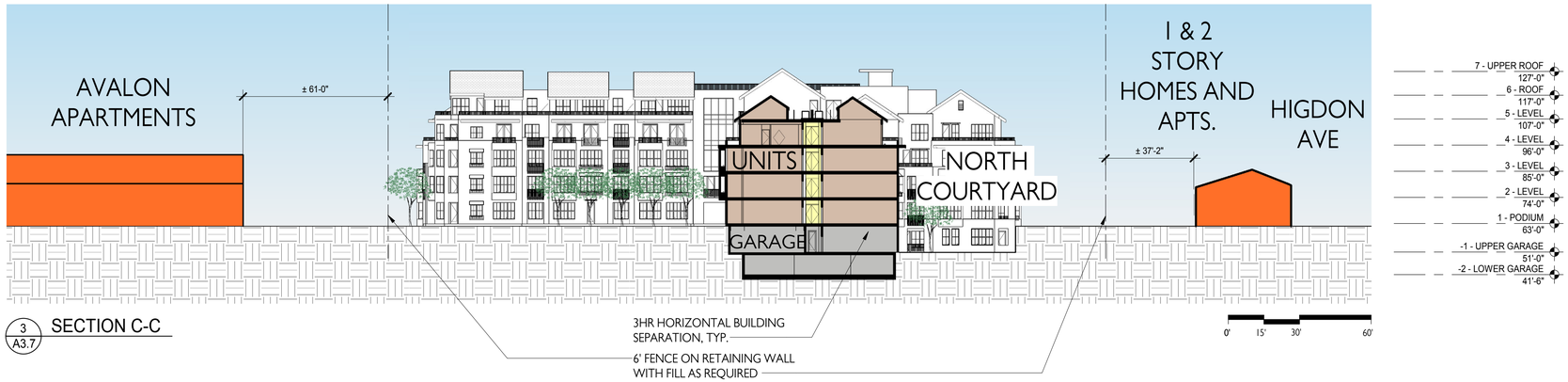
06/21/2018



1 A3.7 SECTION A-A



2 A3.7 SECTION B-B



3 A3.7 SECTION C-C

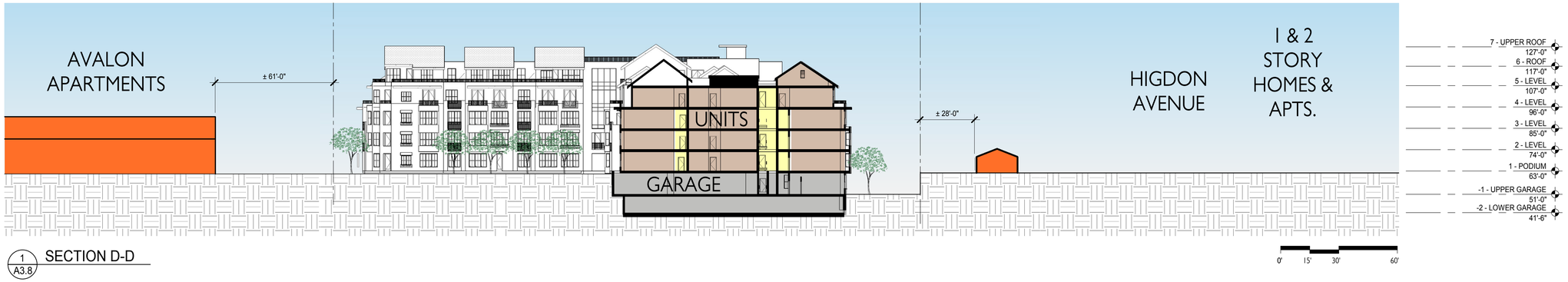
VILLA STREET

MOUNTAIN VIEW, CA

A3.7

CONCEPTUAL SITE SECTIONS

06/21/2018



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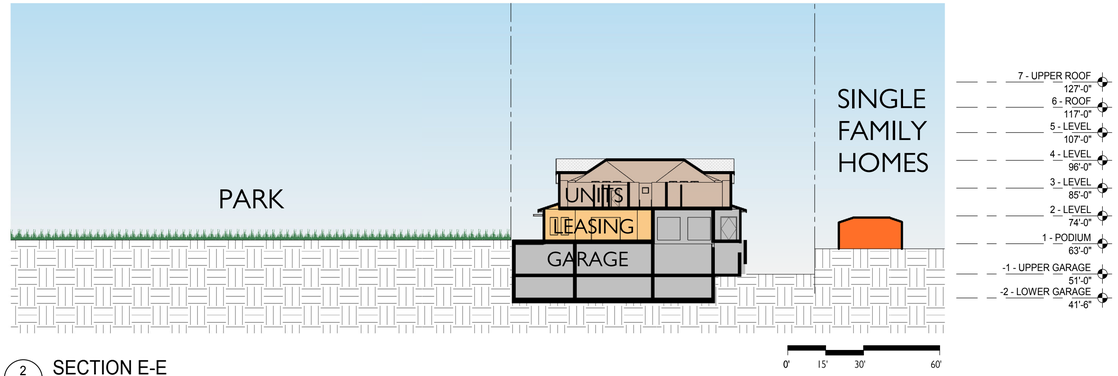


2 A3.8 SECTION E-E

VILLA ST. STREETSCAPE

SEIDEL ARCHITECTS

PROMETHEUS

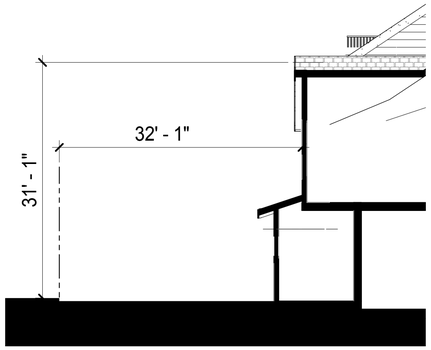
VILLA STREET

MOUNTAIN VIEW, CA

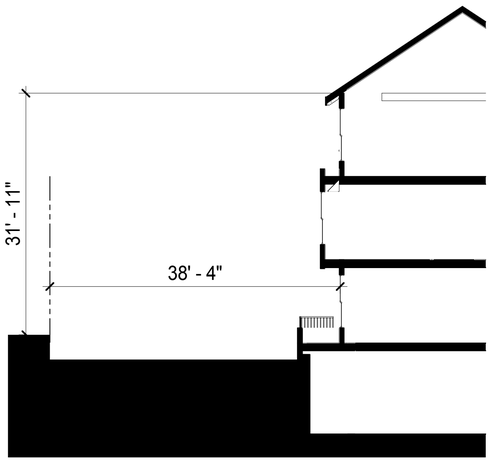
A3.8

CONCEPTUAL SITE SECTIONS & ELEVATIONS

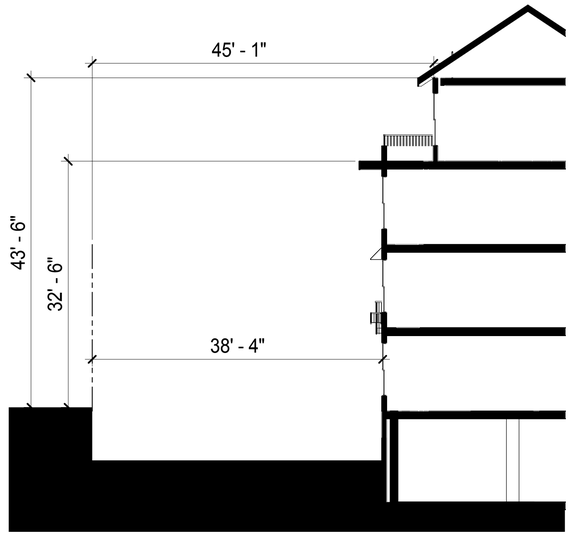
06/21/2018



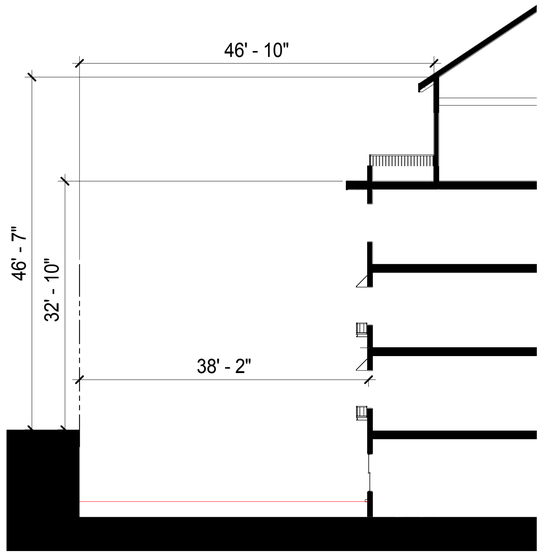
WEST PROPERTY LINE SECTION A



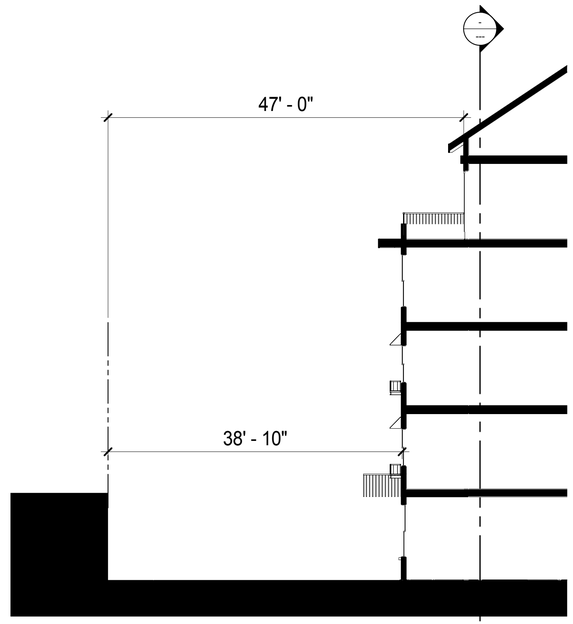
WEST PROPERTY LINE SECTION B



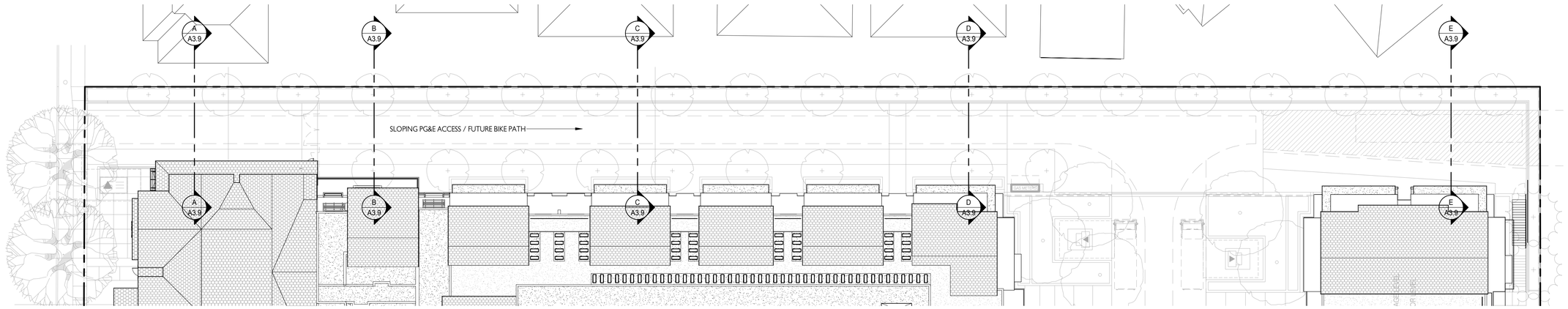
WEST PROPERTY LINE SECTION C



WEST PROPERTY LINE SECTION D



WEST PROPERTY LINE SECTION E



SEIDEL ARCHITECTS

PROMETHEUS

VILLA STREET

MOUNTAIN VIEW, CA

A3.9

CONCEPTUAL SITE SECTIONS

06/21/2018

VIEW FROM FUTURE PUBLIC PARK ALONG VILLA STREET

SEIDEL ARCHITECTS

PROMETHEUS

VILLA STREET

MOUNTAIN VIEW, CA

A4.1A

CONCEPTUAL PERSPECTIVE

06/21/2018

VIEW FROM FUTURE PUBLIC PARK ALONG VILLA STREET

SEIDEL ARCHITECTS

PROMETHEUS

VILLA STREET

MOUNTAIN VIEW, CA

A4.1B

CONCEPTUAL PERSPECTIVE

06/21/2018

VIEW FROM NORTH PROPERTY LINE

SEIDEL ARCHITECTS

PROMETHEUS

VILLA STREET

MOUNTAIN VIEW, CA

A4.2

CONCEPTUAL PERSPECTIVE

06/21/2018

VIEW FROM HIGDON AVE

SEIDEL ARCHITECTS

PROMETHEUS

VILLA STREET

MOUNTAIN VIEW, CA

A4.3

CONCEPTUAL PERSPECTIVE

06/21/2018

VIEW FROM CENTRAL EXPRESSWAY, NORTH-EAST OF PROJECT

SEIDEL ARCHITECTS

PROMETHEUS

VILLA STREET

MOUNTAIN VIEW, CA

A4.4A

CONCEPTUAL PERSPECTIVE

06/21/2018

VIEW FROM CENTRAL EXPRESSWAY, NORTH-EAST OF PROJECT

SEIDEL ARCHITECTS

PROMETHEUS

VILLA STREET

MOUNTAIN VIEW, CA

A4.4B

CONCEPTUAL PERSPECTIVE

06/21/2018

VIEW FROM CENTRAL EXPRESSWAY, NORTH-WEST OF PROJECT

SEIDEL ARCHITECTS

PROMETHEUS

VILLA STREET

MOUNTAIN VIEW, CA

A4.5A

CONCEPTUAL PERSPECTIVE

06/21/2018

VIEW FROM CENTRAL EXPRESSWAY, NORTH-WEST OF PROJECT

SEIDEL ARCHITECTS

PROMETHEUS

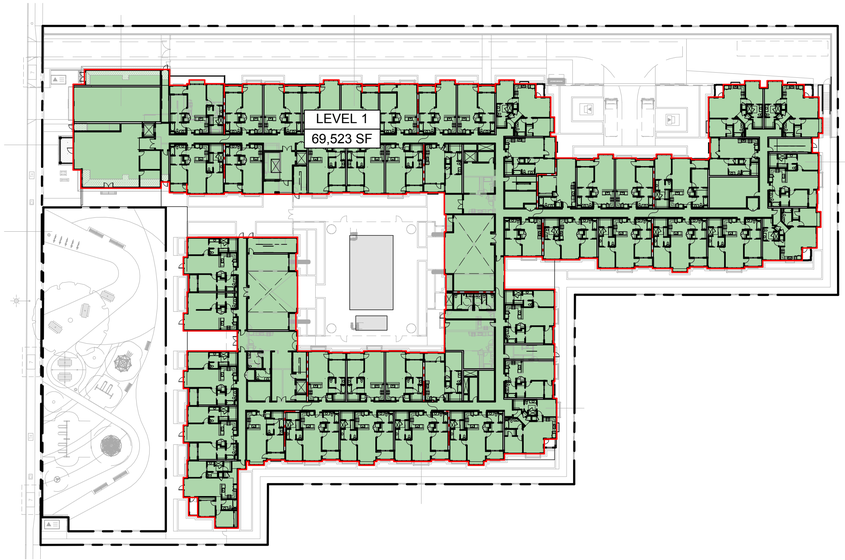
VILLA STREET

MOUNTAIN VIEW, CA

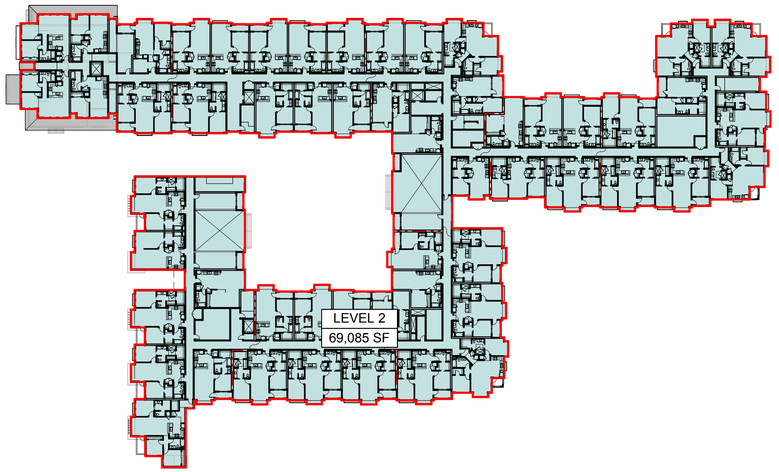
A4.5B

CONCEPTUAL PERSPECTIVE

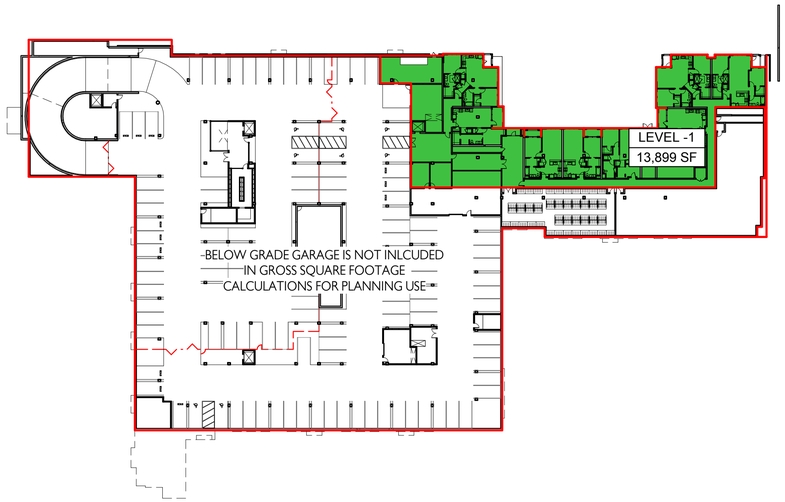
06/21/2018



1ST FLOOR AREA DIAGRAM



2ND FLOOR AREA DIAGRAM



UPPER GARAGE AREA DIAGRAM

CITY OF MT. VIEW - GROSS FLOOR AREA SCHEDULE	
NAME	AREA
LEVEL -1	13,899 SF
LEVEL 1	69,523 SF
LEVEL 2	69,085 SF
LEVEL 3	62,063 SF
ROOF VOLUME	2,544 SF
LEVEL 4	49,379 SF
ROOF VOLUME	2,500 SF
LEVEL 5	19,089 SF
ROOF VOLUME	8,264 SF
ROOF PENTHOUSE	255 SF
ROOF VOLUME	1,466 SF

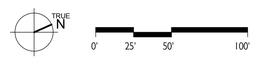
298,069 SF / 143,315 SF = 2.08 FAR*

* AREAS ARE MEASURED PER CITY OF MOUNATIN VIEW ZONING CALCULATIONS:
METHODS , DEFINITIONS, AND CLARIFICATIONS.
AREA OF PUBLICALLY ACCESSIBLE PARK IS INCLUSIVE OF TOTAL SITE AREA.

CITY OF MT. VIEW - BUILDING COVERAGE	
NAME	AREA
LEVEL 1	69,523 SF

69,523 SF / 143,315 SF = 48.5%

* AREAS ARE MEASURED PER CITY OF MOUNATIN VIEW ZONING
CALCULATIONS: METHODS , DEFINITIONS, AND CLARIFICATIONS.
AREA OF PUBLICALLY ACCESSIBLE PARK IS INCLUSIVE OF TOTAL SITE AREA.



SEIDEL ARCHITECTS

PROMETHEUS

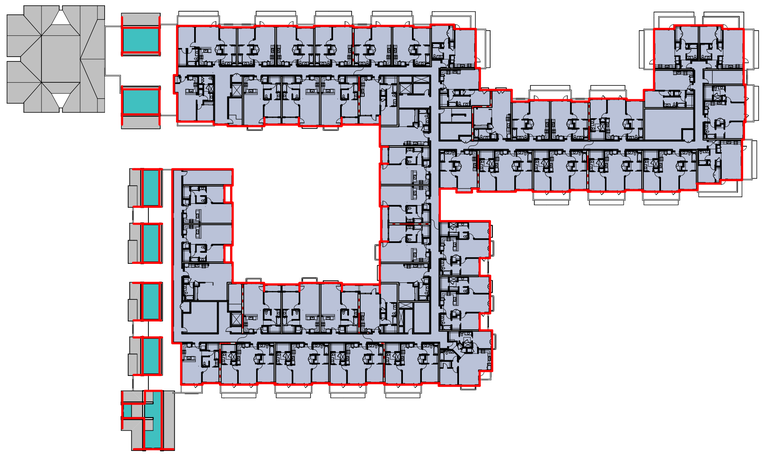
VILLA STREET

MOUNTAIN VIEW, CA

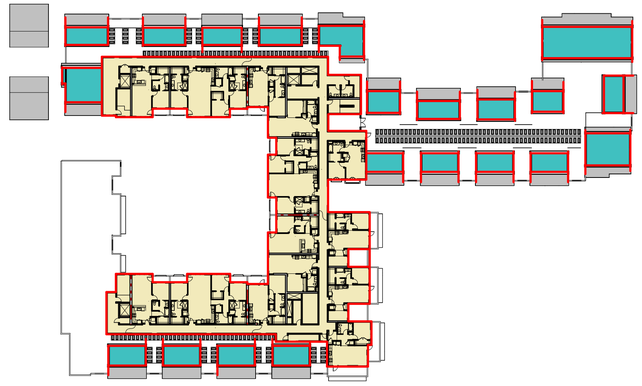
A5.1.1

FLOOR AREA DIAGRAMS

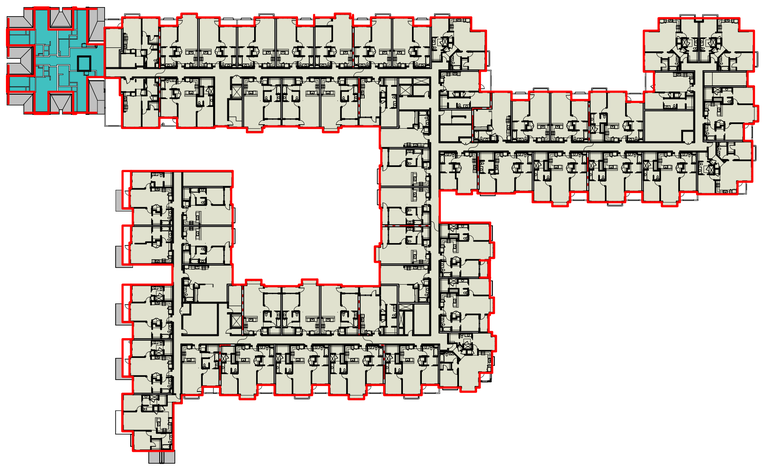
06/21/2018



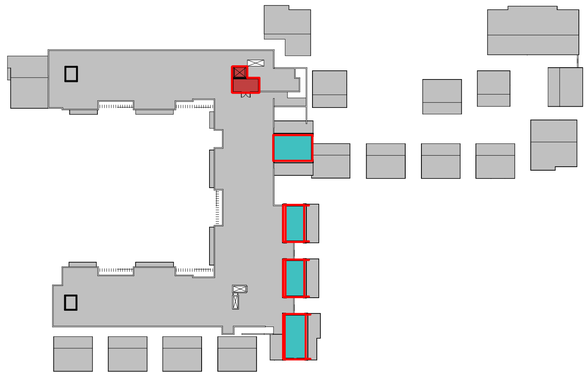
4TH FLOOR AREA DIAGRAM



5TH FLOOR AREA DIAGRAM



3RD FLOOR AREA DIAGRAM



ROOF PENTHOUSE AREA DIAGRAM

0' 25' 50' 100'

SEIDEL ARCHITECTS

PROMETHEUS

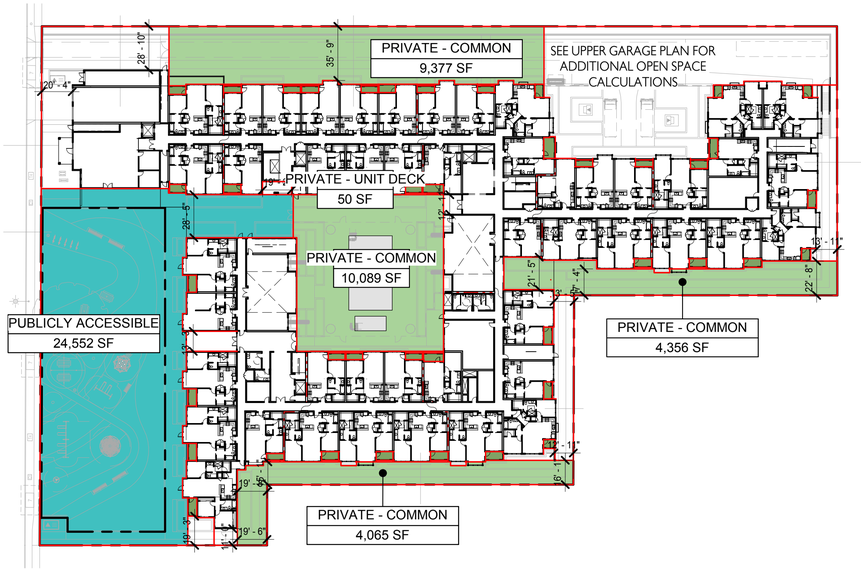
VILLA STREET

MOUNTAIN VIEW, CA

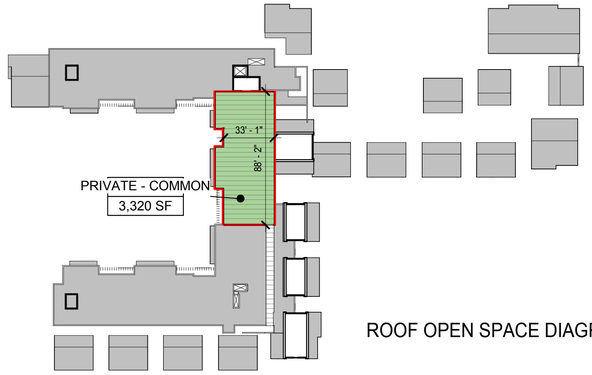
A5.1.2

FLOOR AREA DIAGRAMS

06/21/2018



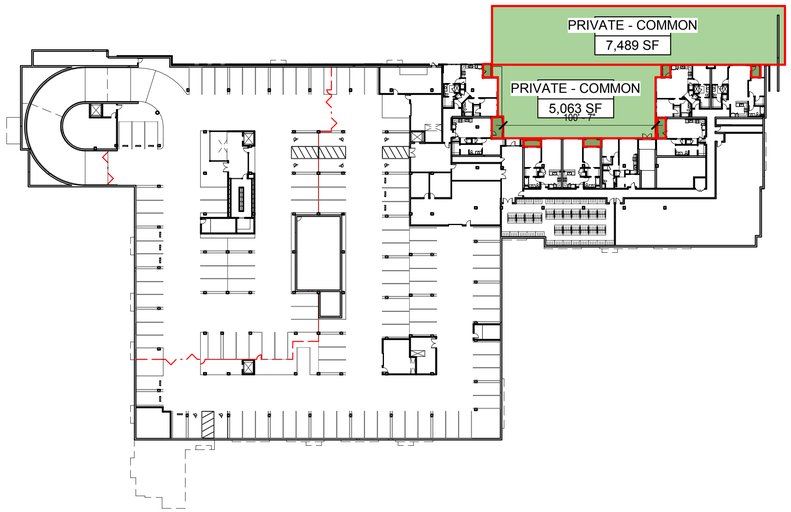
GROUND FLOOR OPEN SPACE DIAGRAM



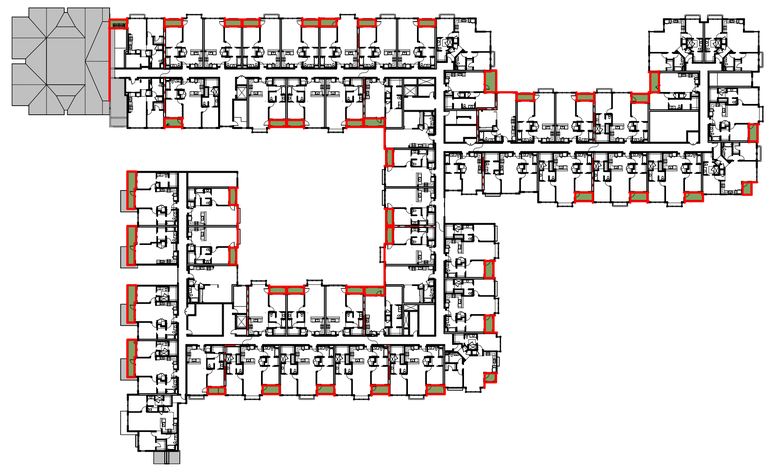
ROOF OPEN SPACE DIAGRAM

AREA SCHEDULE (OPEN SPACE)	
NAME	AREA
PRIVATE - COMMON	43,759 SF
PRIVATE - UNIT DECK	14,348 SF
PUBLICLY ACCESSIBLE	24,552 SF

82,659 SF / 226 UNITS = 366 SF PER UNIT PROVIDED
175 SF PER UNIT REQUIRED



LOWER LEVEL OPEN SPACE DIAGRAM



TYPICAL FLOOR OPEN SPACE DIAGRAM

0' 25' 50' 100'

SEIDEL ARCHITECTS

PROMETHEUS

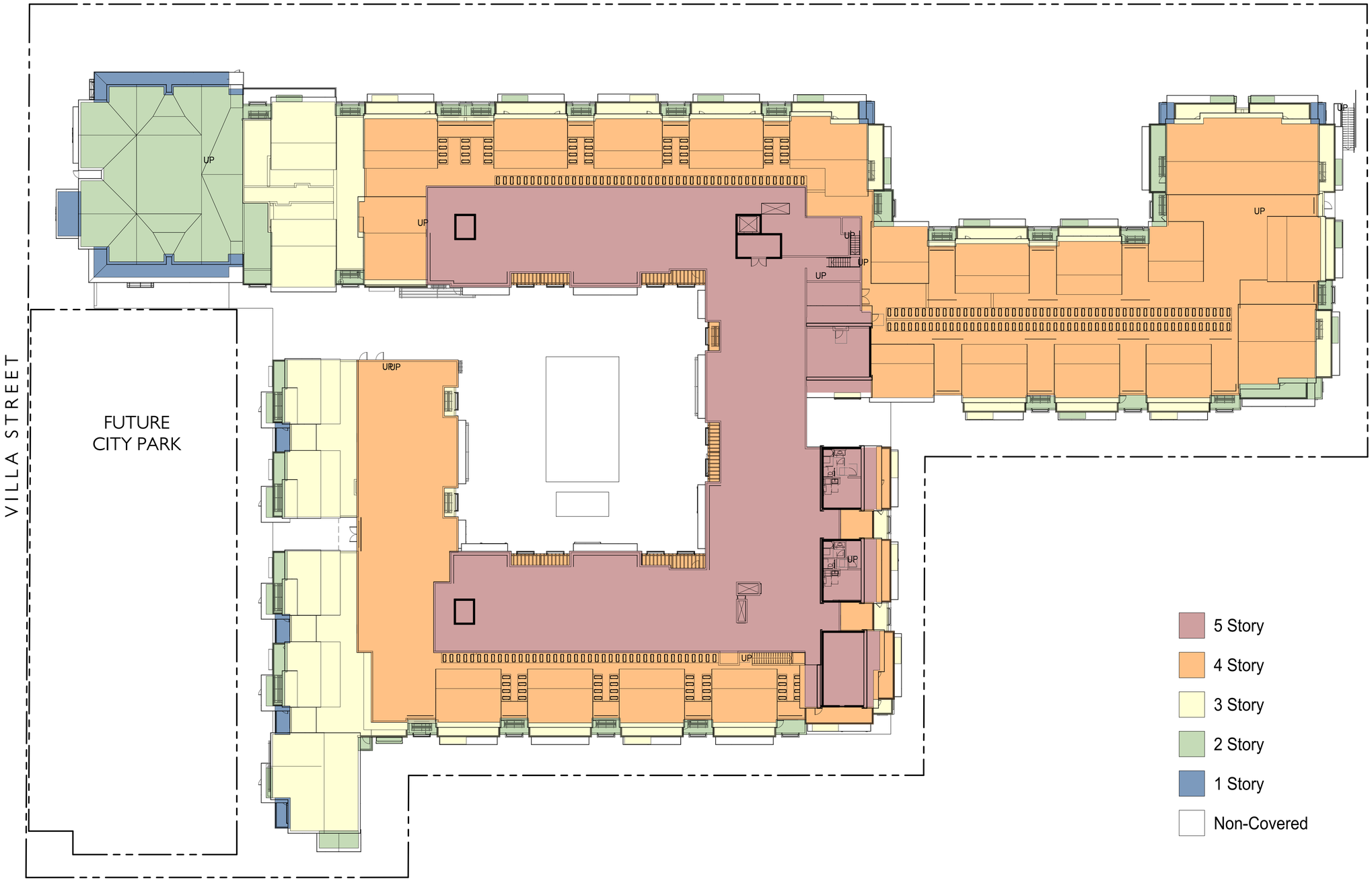
VILLA STREET

MOUNTAIN VIEW, CA

A5.2

OPEN SPACE AREA

06/21/2018



SEIDEL ARCHITECTS

PROMETHEUS

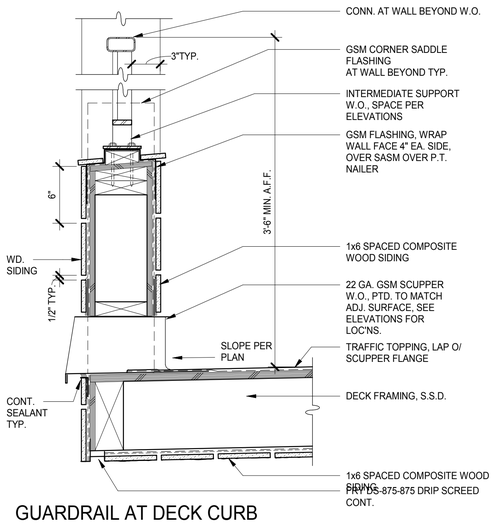
VILLA STREET

MOUNTAIN VIEW, CA

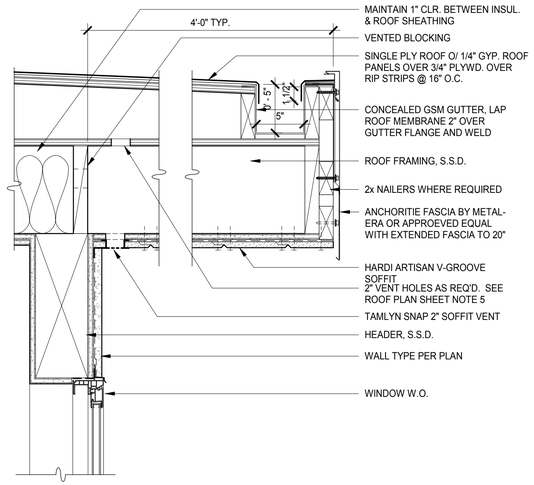
A5.4

MASSING DIAGRAM

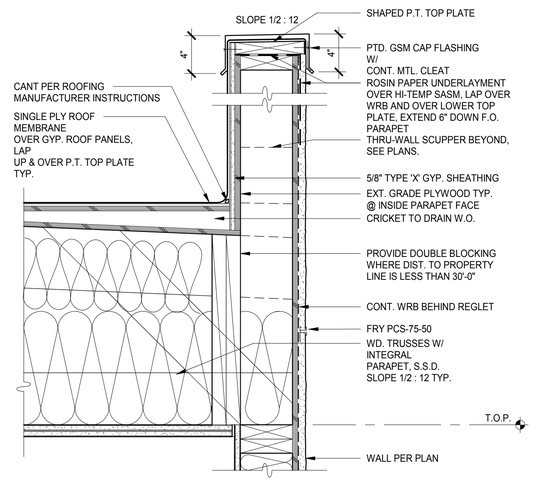
06/21/2018



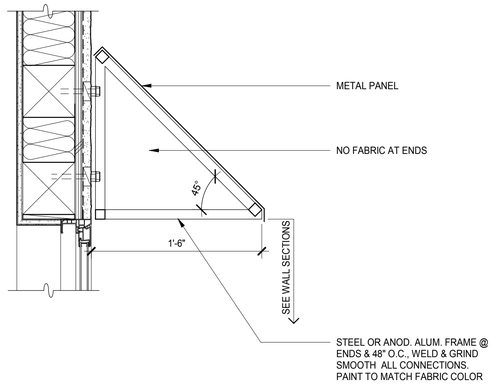
GUARDRAIL AT DECK CURB



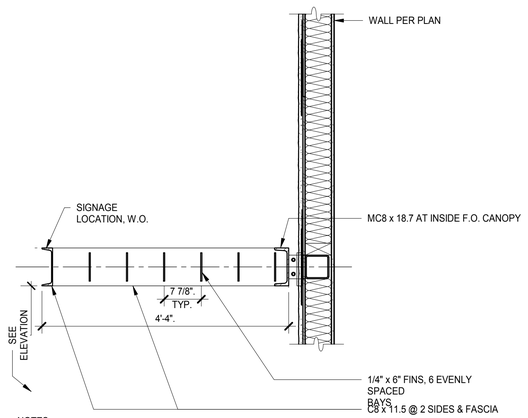
FLAT EAVE



ROOF PARAPET AT PLASTER



FABRIC SUNSHADE (1'-6" PROJECTION)



NOTES:

1. WELD ALL STL. CONNECTIONS & GRIND SMOOTH, TYP.
2. HOT DIP GALVANIZE AND PAINT ALL STEEL COMPONENTS.

STEEL SUNSHADE SECTION

VILLA STREET

MOUNTAIN VIEW, CA

ASPHALT SHINGLE ROOF
GAF TIMBERLINE
ULTRA HD - CHARCOAL

VINYL WINDOW
BRONZE/BLACK

CEMENTITIOUS HORIZONTAL SIDING 1 & 2
ASPYRE COLLECTION
ARTISAN SHIPLAP SIDING
- DEW385 LIGHTHOUSE (1)
- DET625 RECLAIMED WOOD (2)

PREFINISHED CEMENTITIOUS SHAKES 2
SHINGLE SIDING
STRAIGHT EDGE PANEL - TIMBER BARK

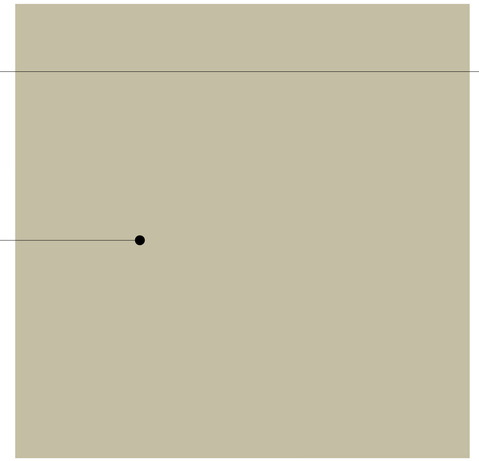
PREFINISHED CEMENTITIOUS SHAKES 1
SHINGLE SIDING
STRAIGHT EDGE PANEL - KHAKI BROWN

FABRIC AWNING
CHARCOAL GREY

METAL RAILING
PAINTED: CHARCOAL SMUDGE

COMPOSITE WOOD SIDING 1
FLUSH SIDING
AGED ASH PU17

PLASTER
PAINTED: SEAGULL WAIL - DET637



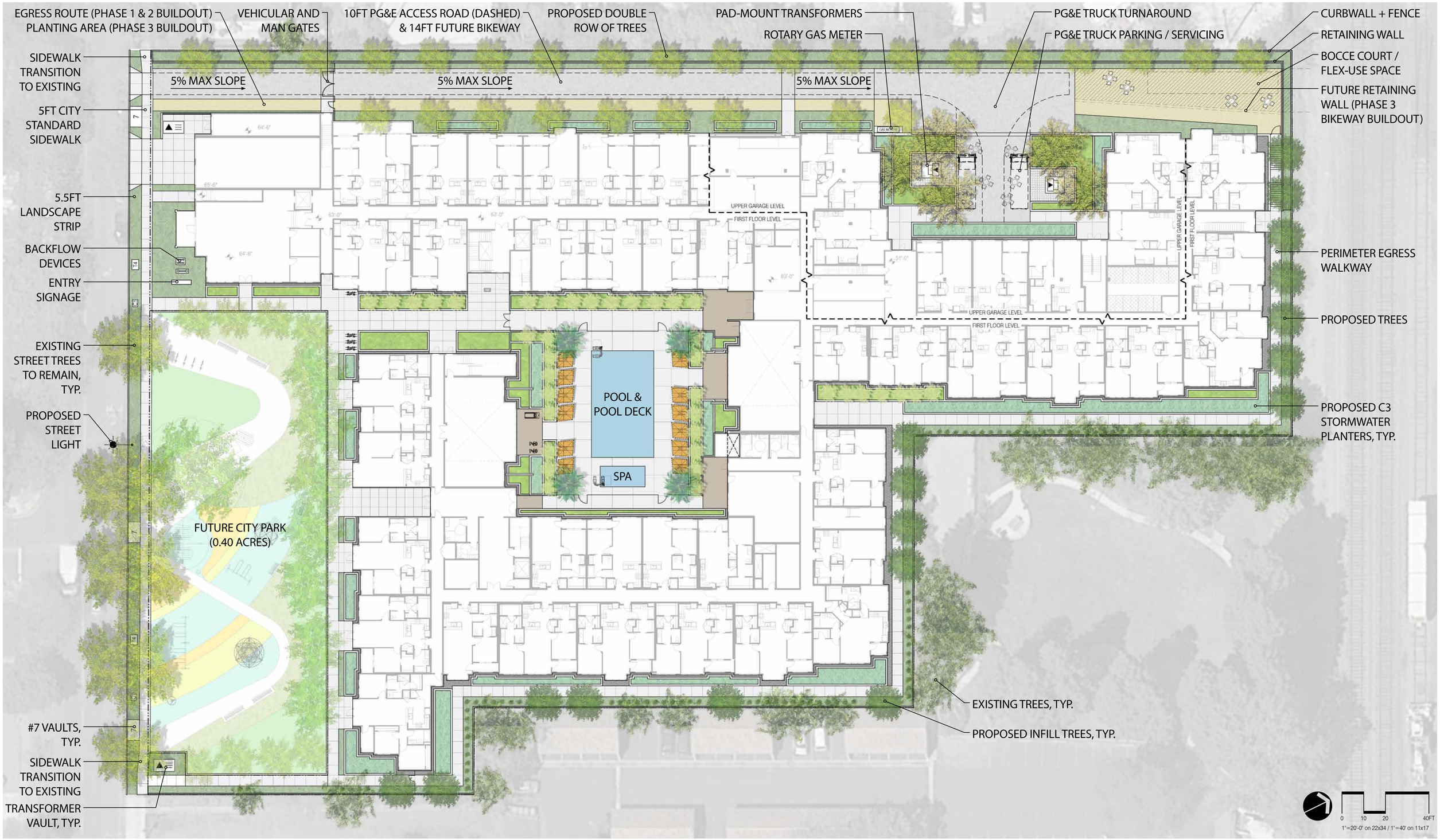
SEIDEL ARCHITECTS

PROMETHEUS

VILLA STREET

MOUNTAIN VIEW, CA

A6.2
MATERIALS BOARD
06/21/2018



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VILLA STREET

MOUNTAIN VIEW, CA

L1.00

LANDSCAPE SITE PLAN - GROUND LEVEL

06/21/2018

FARM-STYLE TABLE
OUTDOOR KITCHEN
SPA
HAMMOCK
MOVABLE AND FIXED FURNITURE
RAISED GARDEN PLANTERS

0 10 20 40FT
1"=20'-0" on 22x34 / 1"=40' on 11x17

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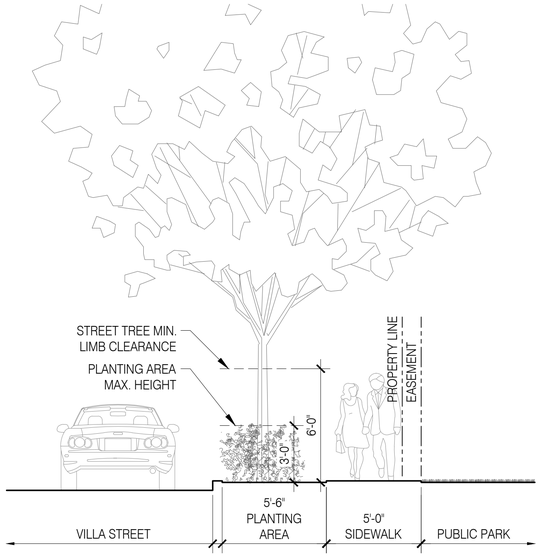
VILLA STREET

MOUNTAIN VIEW, CA

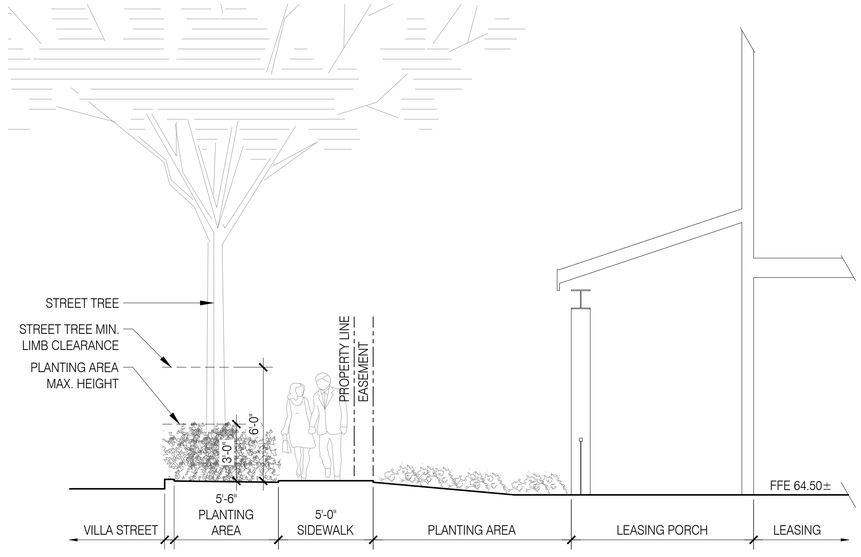
L1.01

LANDSCAPE SITE PLAN - LEVEL 6 ROOF DECK
06/21/2018



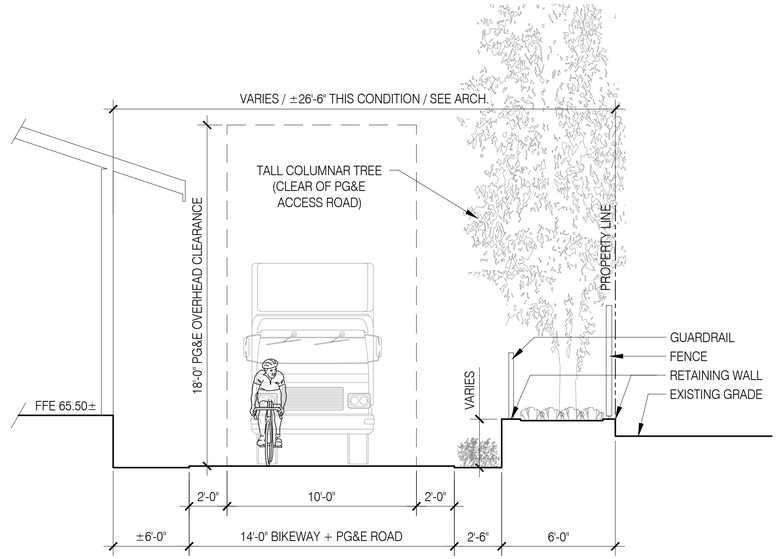
1/4" = 1'-0"

Villa Street, Typ. 01
section



1/4" = 1'-0"

Villa Street at Leasing 02
section

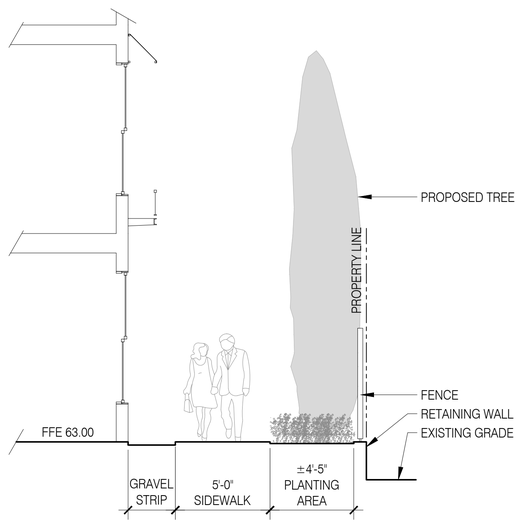


1/4" = 1'-0"

PG&E Access Road / Future Bikeway at Trash Staging 03
section

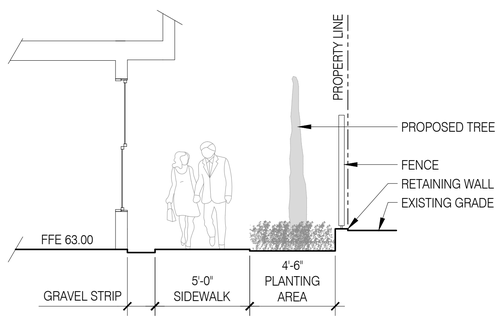
1/4" = 1'-0"

PG&E Access Road / Future Bikeway, Typ. 04
section/ elevation



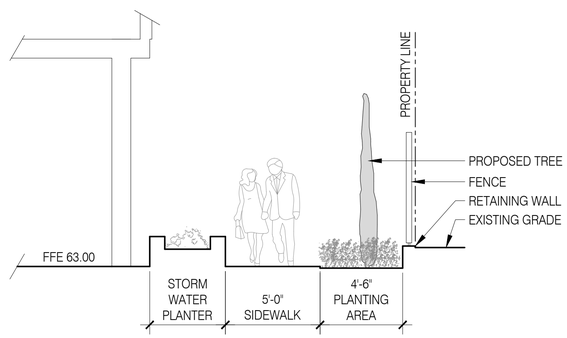
1/4" = 1'-0"

Perimeter Walkway (Northeast) 05
section



1/4" = 1'-0"

Perimeter Walkway (Southeast) 06
section



1/4" = 1'-0"

Perimeter Walkway (South) 07
section

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VILLA STREET
MOUNTAIN VIEW, CA

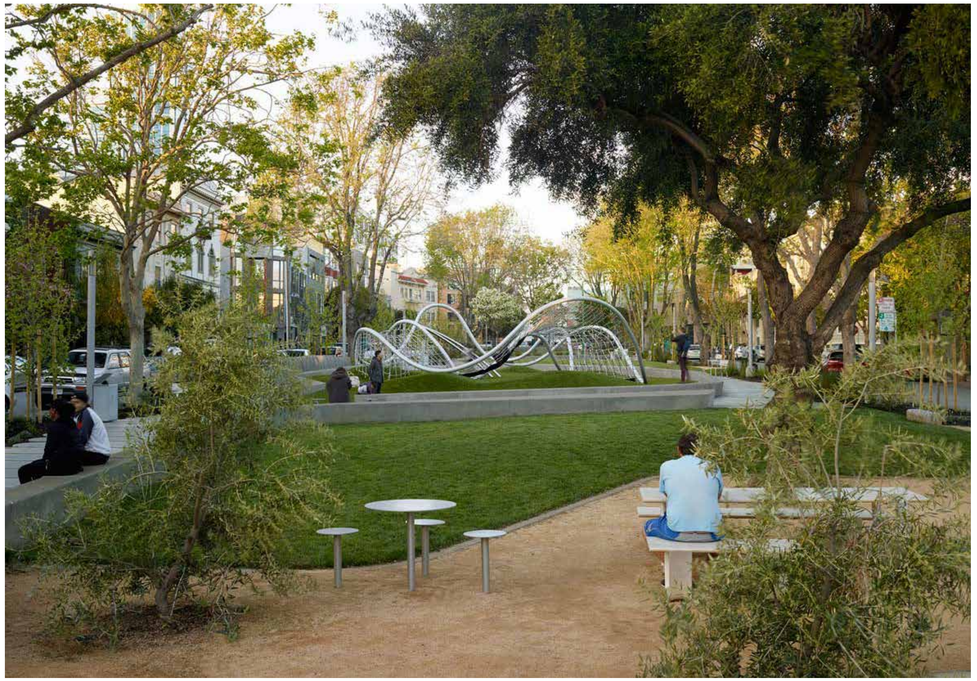
L1.11
LANDSCAPE SECTIONS
06/21/2018

DOG RUN WITH TREES

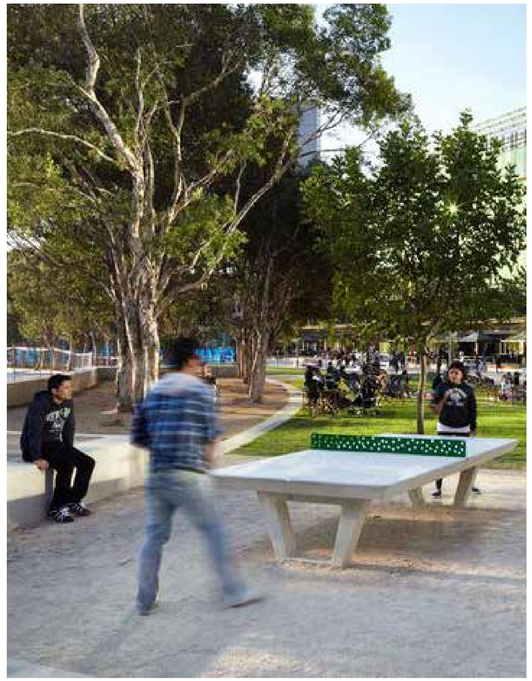
INTEGRATED SEATING AND GATHERING SPACES

LOUNGE AREAS

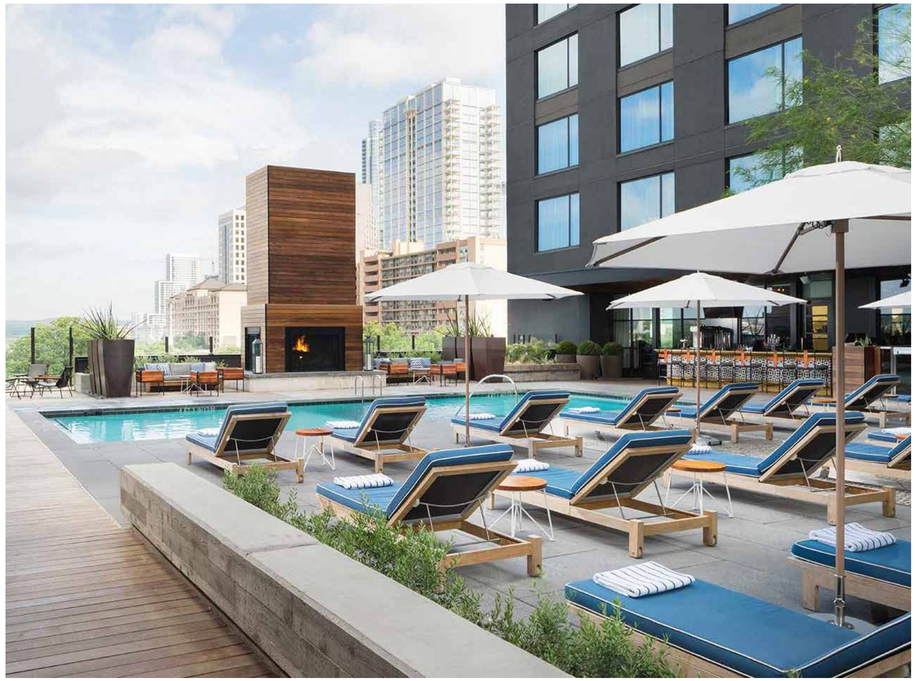
POOL AND AMENITIES



NEIGHBORHOOD PARK



PASSIVE RECREATION SPACES



POOL DECK

VILLA STREET
MOUNTAIN VIEW, CA

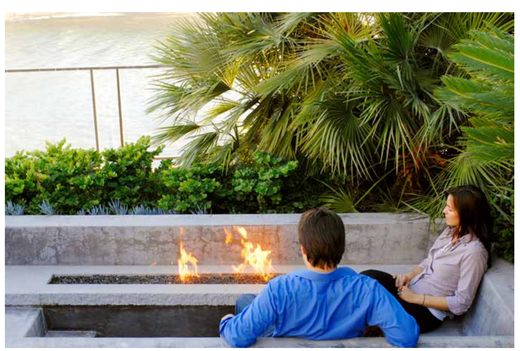
L1.21
LANDSCAPE IMAGES
06/21/2018

OUTDOOR DINING

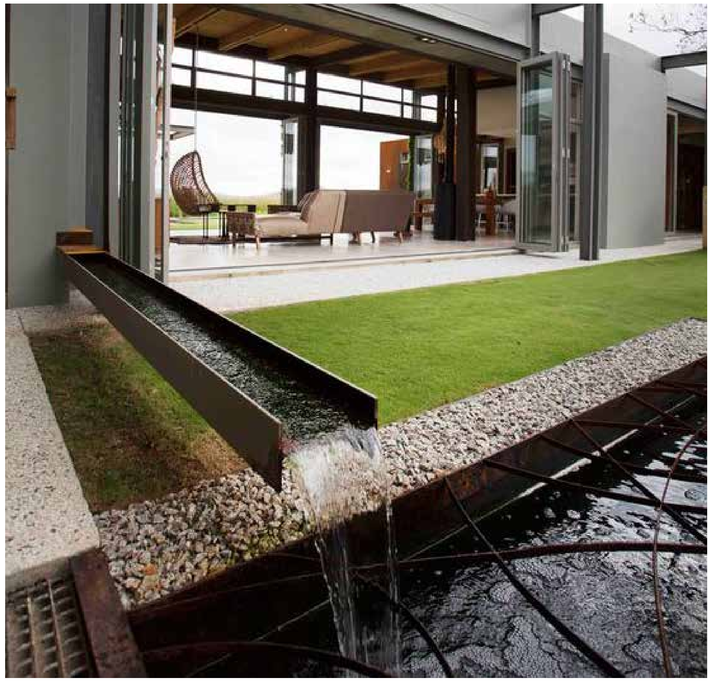
PRIVATE SEATING AREAS

SHADE STRUCTURES

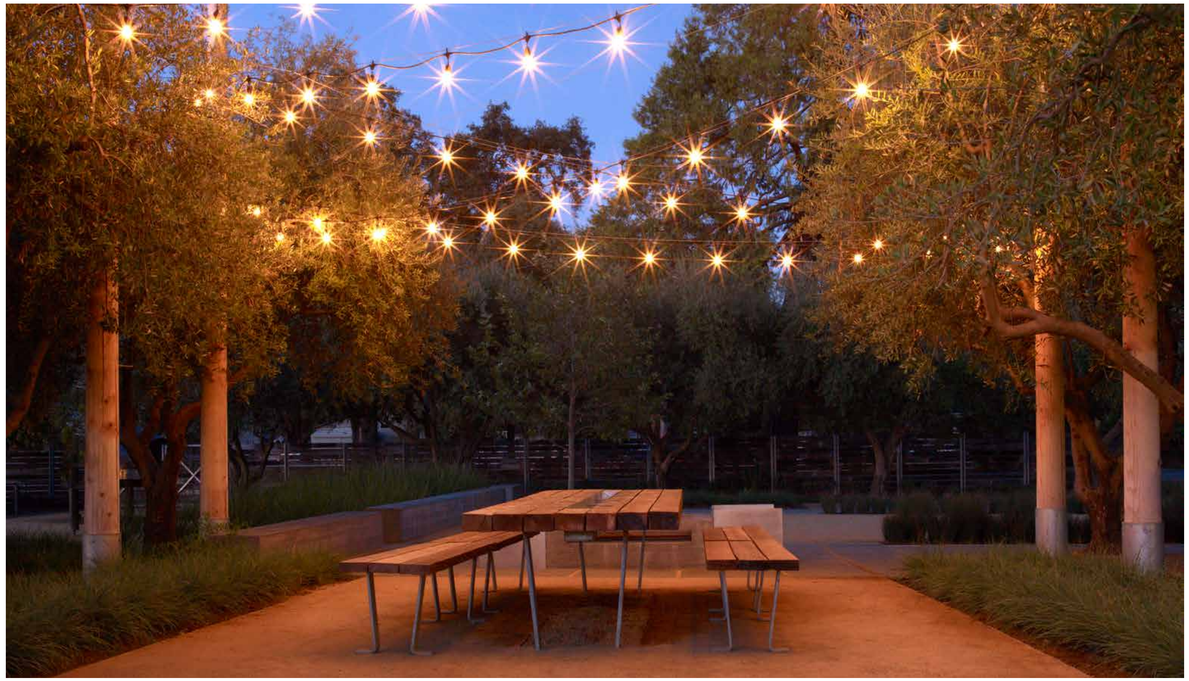
OUTDOOR KITCHEN



FIREPLACE



SCULPTURAL STORM WATER RUNNELS



OUTDOOR DINING

SEIDEL ARCHITECTS

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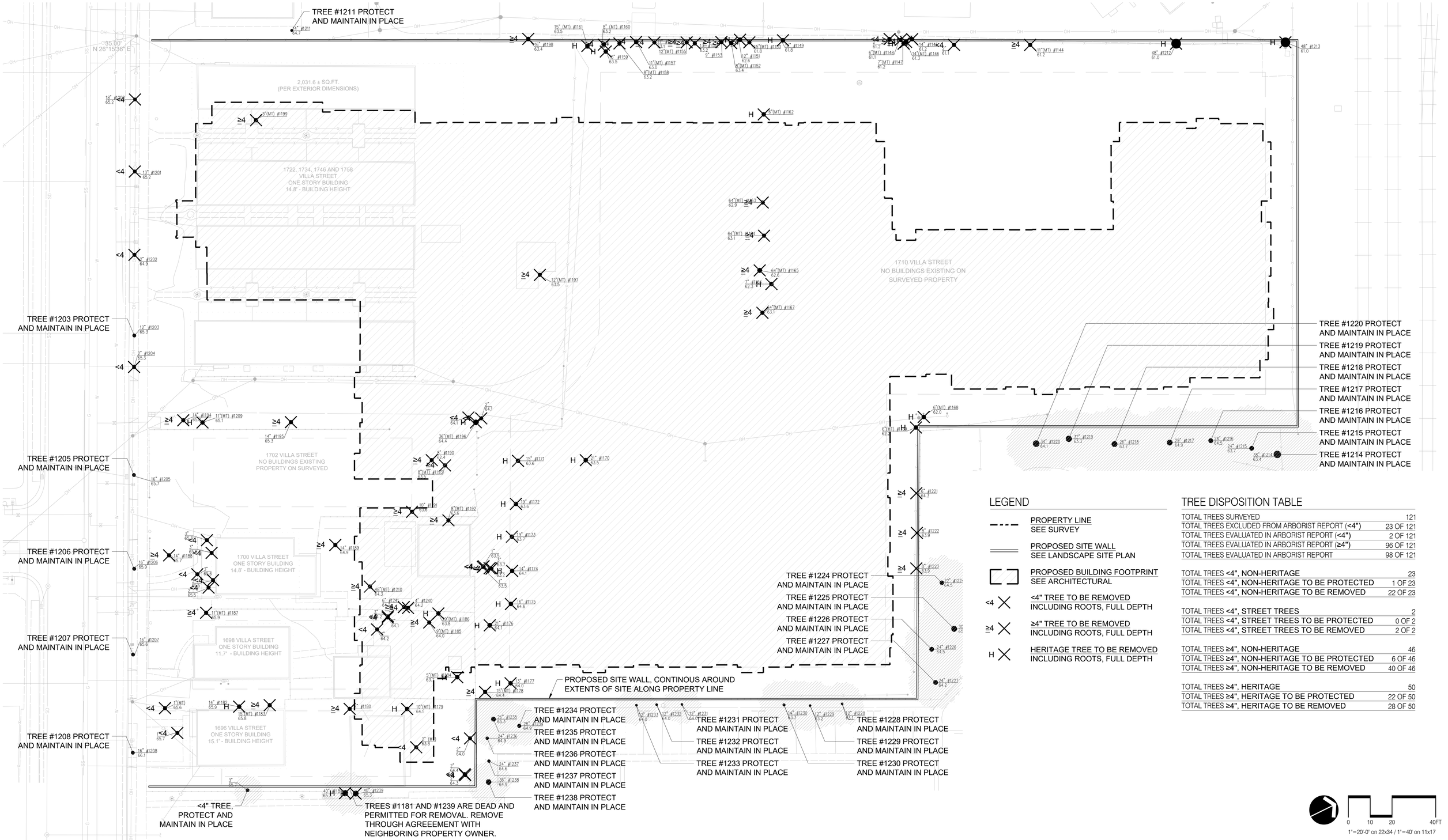
VILLA STREET

MOUNTAIN VIEW, CA

L1.22

LANDSCAPE IMAGES

06/21/2018



LEGEND

- PROPERTY LINE — SEE SURVEY
- PROPOSED SITE WALL — SEE LANDSCAPE SITE PLAN
- PROPOSED BUILDING FOOTPRINT — SEE ARCHITECTURAL
- <4 — <4" TREE TO BE REMOVED INCLUDING ROOTS, FULL DEPTH
- ≥4 — ≥4" TREE TO BE REMOVED INCLUDING ROOTS, FULL DEPTH
- H — HERITAGE TREE TO BE REMOVED INCLUDING ROOTS, FULL DEPTH

TREE DISPOSITION TABLE

TOTAL TREES SURVEYED	121
TOTAL TREES EXCLUDED FROM ARBORIST REPORT (<4")	23 OF 121
TOTAL TREES EVALUATED IN ARBORIST REPORT (<4")	2 OF 121
TOTAL TREES EVALUATED IN ARBORIST REPORT (≥4")	96 OF 121
TOTAL TREES EVALUATED IN ARBORIST REPORT	98 OF 121
TOTAL TREES <4", NON-HERITAGE	23
TOTAL TREES <4", NON-HERITAGE TO BE PROTECTED	1 OF 23
TOTAL TREES <4", NON-HERITAGE TO BE REMOVED	22 OF 23
TOTAL TREES <4", STREET TREES	2
TOTAL TREES <4", STREET TREES TO BE PROTECTED	0 OF 2
TOTAL TREES <4", STREET TREES TO BE REMOVED	2 OF 2
TOTAL TREES ≥4", NON-HERITAGE	46
TOTAL TREES ≥4", NON-HERITAGE TO BE PROTECTED	6 OF 46
TOTAL TREES ≥4", NON-HERITAGE TO BE REMOVED	40 OF 46
TOTAL TREES ≥4", HERITAGE	50
TOTAL TREES ≥4", HERITAGE TO BE PROTECTED	22 OF 50
TOTAL TREES ≥4", HERITAGE TO BE REMOVED	28 OF 50

0 10 20 40FT

1"=20'-0" on 22x34 / 1"=40' on 11x17

SEIDEL ARCHITECTS

PROMETHEUS

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180 NE Sixth Ave #200
Portland, OR 97232
503.546.4640
www.2inkstudio.com

VILLA STREET

MOUNTAIN VIEW, CA

L2.00
TREE DISPOSITION PLAN
06/21/2018

PRELIMINARY PLANTING SCHEDULE

STREET TREES

SYM.	BOTANICAL NAME / COMMON NAME	SIZE	SPACING	WUCOLS
PICH	PISTACIA CHINENSIS CHINESE PISTACHE	3" CAL.	AS SHOWN	M

SITE TREES

SYM.	BOTANICAL NAME / COMMON NAME	SIZE	SPACING	WUCOLS
ACTT	ACER TEGMENTOSUM MANCHURIAN STRIPED MAPLE / SNAKEBARK	36" BOX	AS SHOWN	-
CUSE	CUPRESSUS SEMPERVIRENS "TINY TOWER" TINY TOWER ITALIAN CYPRESS	24" BOX	AS SHOWN	-
JUVT	JUNIPERUS VIRGINIANA 'TAYLOR' TAYLOR JUNIPER	24" BOX	AS SHOWN	-
SESE	SEQUOIA SEMPERVIRENS COAST REDWOOD	36" BOX 10' HT. MIN.	AS SHOWN	-

ZONE 01 - HIGH SCREEN LOW/MEDIUM WATER USE PLANTINGS (DRIP IRRIGATION)

SYM.	BOTANICAL NAME / COMMON NAME	SIZE	SPACING	WUCOLS
	ARCTOSTAPHYLOS DENSIFLORA 'H. MCMINN' HOWARD MCMINN MANZANITA	5 GAL.	4' O.C.	L
	BUXUS 'GREEN BEAUTY' GREEN BEAUTY JAPANESE BOXWOOD	5 GAL.	3' O.C.	M
	HYDRANGEA MACROPHYLLA 'FUJI WATERFALL' FUJI WATERFALL HYDRANGEA	5 GAL.	3' O.C.	M
	ILEX GLABRA 'CHAMZIN' NORDIC INKBERRY HOLLY	5 GAL.	42" O.C.	M
	LAURUS NOBILIS SWEET BAY	5 GAL.	4' O.C.	L
	LIGUSTRUM JAPONICUM JAPANESE PRIVET	5 GAL.	4' O.C.	M
	PRUNUS CAROLINIANA 'BRIGHT AND TIGHT' CAROLINA LAUREL	5 GAL.	4' O.C.	L
	VIBURNUM SUSPENSUM SANDANKWA VIBURNUM	5 GAL.	3' O.C.	M

ZONE 02 - LOW WATER USE PLANTINGS (DRIP IRRIGATION) - SUN

SYM.	BOTANICAL NAME / COMMON NAME	SIZE	SPACING	WUCOLS
	ACHILLEA MILLEFOLIUM YARROW	1 GAL.	24" O.C.	L
	AGAVE AMERICANA MEDIO-PICTA 'ALBA' WHITE STRIPED CENTURY PLANT	1 GAL.	48" O.C.	VL
	AGAVE ATTENUATA FOXTAIL AGAVE	1 GAL.	48" O.C.	L
	ANIGOZANTHOS 'BIG RED' KANGAROO PAW	1 GAL.	36" O.C.	L
	ARCTOSTAPHYLOS UVA-URSI 'WOODS COMP.' WOODS COMPACT KINNIKINNICK	1 GAL.	18" O.C.	L
	BOUTELOUA GRACILIS 'BLONDE AMBITION' BLUE GRAMMA GRASS	1 GAL.	30" O.C.	L
	BULBINE FRUTESCENS STALKED BULBINE	1 GAL.	30" O.C.	L
	CAREX DIVULSA BERKELEY SEDGE	1 GAL.	24" O.C.	L
	CEANOTHUS GRISEUS VAR HORIZONTALIS YANKEE POINT CEANOTHUS	1 GAL.	48" O.C.	L
	CHAMAEMELUM NOBILE CHAMOMILE	1 GAL.	30" O.C.	L

ZONE 02 (CONTINUED) - LOW WATER USE PLANTINGS (DRIP IRRIGATION) - SUN

SYM.	BOTANICAL NAME / COMMON NAME	SIZE	SPACING	WUCOLS
	CHONDROPETALUM TECTORIUM CAPE RUSH	2 GAL.	36" O.C.	L
	CROCOSMIA 'EMBER GLOW' EMBER GLOW MONTBRESIA	1 GAL.	24" O.C.	L
	DAPHNE ODORA WINTER DAPHNE	1 GAL.	36" O.C.	L
	DIETES IRIDIOIDES AFRICAN IRIS	1 GAL.	36" O.C.	L
	ECHIUM CANDICANS 'SELECT BLUE' SELECT BLUE MADEIRA	1 GAL.	48" O.C.	L
	EUPHORBIA CHARACIAS 'SILVER SWAN' SILVER SWAN EUPHORBIA	1 GAL.	24" O.C.	L
	HELICTOTRICHON SEMPERVIRENS BLUE OAT GRASS	1 GAL.	24" O.C.	L
	LAVANDULA STOECHAS 'LUTSKO'S DWARF' DWARF FRENCH LAVENDER	1 GAL.	18" O.C.	L
	MUHLENBERGIA CAPILLARIS HAIRY AWN MUHLY	1 GAL.	30" O.C.	L
	PENNISETUM ALOPECUROIDES 'MOUDRY' BLACK FLOWERING FOUNTAIN GRASS	1 GAL.	30" O.C.	-
	PHORMIUM 'ALISON BLACKMAN' ALISON BLACKMAN FLAX	1 GAL.	36" O.C.	L
	PITTOSPORUM TOBIRA 'WHEELERS DWARF' DWARF PITTOSPORUM	1 GAL.	36" O.C.	L
	PUNICA GRANATUM 'NANA' DWARF POMEGRANITE	1 GAL.	30" O.C.	L
	ROSMARINUS OFFICINALIS 'PROSTRATUS' PROSTRATE ROSEMARY	1 GAL.	36" O.C.	L
	SALVIA CLEVELANDII BLUE SAGE	1 GAL.	36" O.C.	L
	SALVIA MELLIFERA BLACK SALVIA	1 GAL.	42" O.C.	L
	SANTOLINA CHAMAECYPARISSUS GRAY SANTOLINA	1 GAL.	30" O.C.	L
	SENECIO MANDRALISCAE BLUE FINGER	1 GAL.	18" O.C.	L
	SISYRINCHIUM BELLUM "ARROYO DE LA CRUZ" BLUE EYE GRASS	1 GAL.	12" O.C.	VL
	VERBENA BONARIENSIS TALL VERBENA	1 GAL.	24" O.C.	VL

ZONE 03 - MEDIUM WATER USE PLANTINGS (DRIP IRRIGATION) - SUN

SYM.	BOTANICAL NAME / COMMON NAME	SIZE	SPACING	WUCOLS
	ABELIA X GRANDIFLORA "LITTLE RICHARD" LITTLE RICHARD ABELIA	1 GAL.	30" O.C.	M
	ACANTHUS MOLLIS BEAR'S BREECHES	1 GAL.	24" O.C.	M
	AGAPANTHUS AFRICANUS "ALBUS" WHITE LILY OF THE NILE	1 GAL.	18" O.C.	M
	ARMERIA MARTIMA SEA THRIFT	1 GAL.	12" O.C.	M
	ASPARAGUS SPRENGERI ASPARAGUS FERN	1 GAL.	24" O.C.	M
	DIANELLA TASMANICA "TR20" TASRED FLAX LILY	1 GAL.	24" O.C.	M
	HEBE 'AUTUMN GLORY' AUTUMN GLORY HEBE	1 GAL.	30" O.C.	M
	HYDRANGEA MACROPHYLLA "FUJI WATERFALL" FUJI WATERFALL HYDRANGEA	1 GAL.	42" O.C.	M
	MISCANTHUS SINENSIS MORNING LIGHT MAIDEN GRASS	5 GAL.	36" O.C.	M
	VIBURNUM SUSPENSUM SANDANKWA VIBURNUM	1 GAL.	42" O.C.	M

GENERAL NOTES

1. THE MAXIMUM ALLOWABLE SOIL WEIGHT FOR SOILS PLACED ON-STRUCTURE FOR THIS PROJECT IS 100 LBS/C.F. SATURATED.
2. ALL PLANTING AREAS TO BE IRRIGATED.
3. SEE IRRIGATION PLAN FOR INFORMATION ABOUT LOCATING IRRIGATION SLEEVES.
4. PROVIDE 3-INCH DEPTH ORGANIC COMPOST MULCH AT ALL PLANTING AREAS (NO WOOD OR BARK CHIPS).
5. FINISH GRADE (FG) ELEVATION ON GRADING PLAN INDICATES TOP OF MULCH LAYER.
6. CONTRACTOR IS RESPONSIBLE FOR DETERMINING EXACT PLANT QUANTITIES REQUIRED BASED ON PLAN.

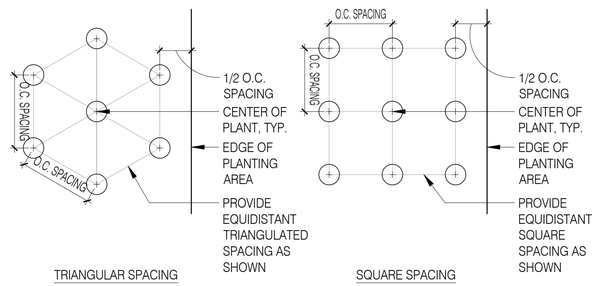
ZONE 04 - LOW WATER USE PLANTINGS (DRIP IRRIGATION) - SHADE

SYM.	BOTANICAL NAME / COMMON NAME	SIZE	SPACING	WUCOLS
	ASPIDISTRA ELATIOR IRON CAST PLANT	1 GAL.	24" O.C.	L
	CAREX DIVULSA BERKELEY SEDGE	1 GAL.	18" O.C.	L
	CHONDROPETALUM TECTORIUM CAPE RUSH	1 GAL.	36" O.C.	L
	DAPHNE ODORA WINTER DAPHNE	1 GAL.	36" O.C.	L
	IRIS DOUGLASIANA DOUGLAS IRIS	1 GAL.	24" O.C.	L
	JUNCUS PATENS 'ELK BLUE' ELK BLUE CALORFORNIA GRAY RUSH	1 GAL.	18" O.C.	L
	JUNCUS XIPHIODES IRIS LEAVED RUSH	1 GAL.	18" O.C.	-
	SARCOCOCCA HOOKERIANA VAR. HUMILIS LOW SWEET BOX	1 GAL.	24" O.C.	L
	SARCOCOCCA RUSCIFOLIA FRAGRANT SWEET BOX	1 GAL.	30" O.C.	L

ZONE 05 - MEDIUM WATER USE PLANTINGS (DRIP IRRIGATION) - SHADE

SYM.	BOTANICAL NAME / COMMON NAME	SIZE	SPACING	WUCOLS
	ABELIA X GRANDIFLORA 'LITTLE RICHARD' LITTLE RICHARD ABELIA	1 GAL.	30" O.C.	M
	ACANTHUS MOLLIS BEAR'S BREECHES	1 GAL.	24" O.C.	M
	AGAPANTHUS AFRICANUS 'ALBUS' WHITE LILY OF THE NILE	1 GAL.	24" O.C.	M
	ASPARAGUS SPRENGERI ASPARAGUS FERN	1 GAL.	24" O.C.	M
	DIANELLA TASMANICA 'TR20' TASRED FLAX LILY	1 GAL.	24" O.C.	M
	HEBE 'AUTUMN GLORY' AUTUMN GLORY HEBE	1 GAL.	24" O.C.	M
	HYDRANGEA MACROPHYLLA 'FUJI WATERFALL' FUJI WATERFALL HYDRANGEA	1 GAL.	42" O.C.	M
	LIRIOPE MUSCARI 'MAJESTIC' MAJESTIC LILY TURF	1 GAL.	18" O.C.	M
	OPHIOPOGON JABURAN GIANT MONDO GRASS	1 GAL.	24" O.C.	M
	OPHIOPOGON PLANISCAPUS 'NIGRESCENS' BLACK MONDO GRASS	1 GAL.	12" O.C.	M
	PHLEBODIUM AUREUM RABBITS FOOT FERN	1 GAL.	24" O.C.	M
	POLYSTICHUM MUNITUM WESTERN SWORD FERN	1 GAL.	36" O.C.	M
	RUMOHRA ADIANTIFORMIS LEATHERLEAF FERN	1 GAL.	30" O.C.	M
	SALVIA CACALIIFOLIA BLUE VINE SAGE	1 GAL.	42" O.C.	M
	THELYPTERIS NORMALIS SOUTHERN WOOD FERN	1 GAL.	36" O.C.	-
	VIBURNUM SUSPENSUM SANDANKWA VIBURNUM	1 GAL.	42" O.C.	M
	WOODWARDIA FIMBRIATA GIANT WESTERN SWORD FERN	1 GAL.	5' O.C.	M

PLANT SPACING DIAGRAMS



TRIANGULAR SPACING

SQUARE SPACING

ZONE 06 - STORMWATER PLANTERS

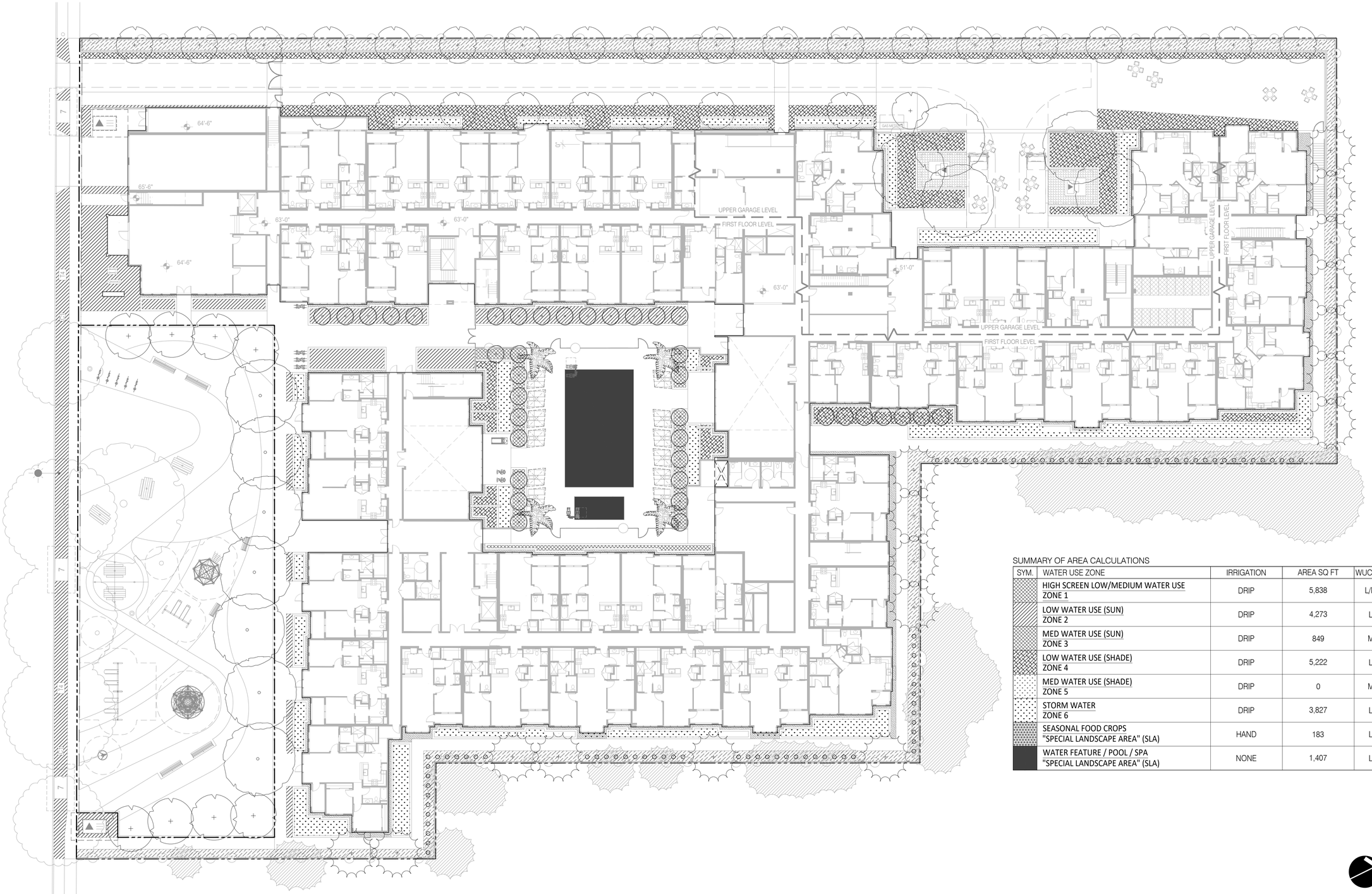
SYM.	BOTANICAL NAME / COMMON NAME	SIZE	SPACING	WUCOLS
	IRIS DOUGLASIANA DOUGLAS IRIS	1 GAL.	36" O.C.	L
	IRIS SIBIRICA "BENNERUP BLUE" BLUE SIBERIAN IRIS	1 GAL.	36" O.C.	M
	JUNCUS PATENS CALIFORNIA GRAY RUSH	1 GAL.	18" O.C.	L
	JUNCUS PATENS "ELK BLUE" ELK BLUE CALORFORNIA GRAY RUSH	1 GAL.	18" O.C.	L
	JUNCUS XIPHIODES IRIS LEAVED RUSH	1 GAL.	18" O.C.	-

SUMMARY OF AREA CALCULATIONS

SYM.	WATER USE ZONE	IRRIGATION	AREA SQ FT	WUCOLS
	HIGH SCREEN LOW/MEDIUM WATER USE ZONE 1	DRIP	5,838	L/M
	LOW WATER USE (SUN) ZONE 2	DRIP	4,273	L
	MED WATER USE (SUN) ZONE 3	DRIP	849	M
	LOW WATER USE (SHADE) ZONE 4	DRIP	5,222	L
	MED WATER USE (SHADE) ZONE 5	DRIP	0	M
	STORM WATER ZONE 6	DRIP	3,827	L
	SEASONAL FOOD CROPS "SPECIAL LANDSCAPE AREA" (SLA)	HAND	183	L
	WATER FEATURE / POOL / SPA "SPECIAL LANDSCAPE AREA" (SLA)	NONE	1,407	L

IRRIGATION DESIGN NARRATIVE

1. IRRIGATION DESIGN TO COMPLY WITH AB1881 REQUIREMENTS, FOLLOW THE STATEWIDE MODEL ORDINANCE DESIGN GUIDELINES AND CITY REQUIREMENTS WITH USE OF WATER EFFICIENT LANDSCAPING AND LOW WATER-WISE PLANTS.
2. ALL PLANTED AREAS SHOWN WILL BE IRRIGATED BY AN AUTOMATIC IRRIGATION SYSTEM.
3. THE IRRIGATED SYSTEMS WILL BE A PERMANENT, BELOW GROUND, AUTOMATED SYSTEM ADEQUATE FOR THE ESTABLISHMENT AND LONG TERM MAINTENANCE OF ALL PLANT MATERIAL.
4. ALL TREE, SHRUB AND GROUNDCOVER AREAS WILL BE IRRIGATED BY A PERMANENT, AUTOMATIC, UNDERGROUND DRIP OR LOW FLOW IRRIGATION SYSTEM.
5. TREE, SHRUB, AND GROUND COVER AREAS SHALL BE ON SEPARATE VALVES AND ZONES BASED ON PLANTING WATER USE AND MICROCLIMATE.
6. ALL IRRIGATION SYSTEM SHALL BE DESIGNED, MAINTAINED, AND MANAGED TO MEET OR EXCEED MINIMUM EFFICIENCY.
7. ALL IRRIGATION EQUIPMENT SHALL BE SCREENED APPROPRIATELY FROM VIEW IN PUBLIC AREAS.
8. THE FINAL IRRIGATION PLAN SHALL ACCURATELY AND CLEARLY IDENTIFY:
   A. LOCATION AND SIZE OF WATER METERS FOR THE LANDSCAPE.
   B. LOCATION, TYPE, AND SIZE OF ALL COMPONENTS OF THE IRRIGATION SYSTEM, INCLUDING AUTOMATIC CONTROLLERS, MAIN AND LATERAL LINES, VALVES, DRIP IRRIGATION LINES, RAIN GAUGES, QUICK COUPLERS, AND BACKFLOW PREVENTION DEVICES.
   C. STATIC WATER PRESSURE AT THE POINT OF CONNECTION TO THE PUBLIC WATER SUPPLY.
   D. FLOW RATES (GALLONS PER MINUTE) AND REMOTE CONTROL VALVE SIZE.
8. QUICK COUPLERS WILL BE LOCATED AT EVERY 100 FEET ALONG THE IRRIGATION MAIN LINE.
9. IRRIGATION SYSTEM AND FINAL DESIGN SHALL BE PROVIDED AT A LATER DATE.
10. IRRIGATION SYSTEM FEATURES EMPLOYED TO ACHIEVE WATER CONSERVATION GOALS INCLUDE:
    A. SMART IRRIGATION CONTROLLERS (WEATHERTRAK) CAPABLE OF RESPONDING TO REAL TIME ON-SITE WEATHER CONDITIONS.
    B. CONTROLLERS WITH MULTIPLE PROGRAMS.
    C. WATERING SCHEDULES EMPLOYING SHORT CYCLES.
    D. RAIN SHUT-OFF DEVICES TO PREVENT IRRIGATION AFTER SIGNIFICANT PRECIPITATION.
    E. DRIP AND/OR BUBBLER IRRIGATION FOR SHRUBS AND TREES IN PLANTER AREAS WHICH HAVE A SHRUB DENSITY THAT WILL CAUSE EXCESSIVE SPRAY INTERFERENCE OF AN OVERHEAD SYSTEM.
    F. USE OF FLOW SENSORS AND MASTER SHUT OFF VALVES TO ALLOW AUTOMATED SHUT DOWN OF THE SYSTEM AND NOTIFICATION OF MAINTENANCE STAFF IN THE EVENT OF A LEAK WITHIN THE SYSTEM.



SUMMARY OF AREA CALCULATIONS

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	HIGH SCREEN LOW/MEDIUM WATER USE ZONE 1	DRIP	5,838	L/M
	LOW WATER USE (SUN) ZONE 2	DRIP	4,273	L
	MED WATER USE (SUN) ZONE 3	DRIP	849	M
	LOW WATER USE (SHADE) ZONE 4	DRIP	5,222	L
	MED WATER USE (SHADE) ZONE 5	DRIP	0	M
	STORM WATER ZONE 6	DRIP	3,827	L
	SEASONAL FOOD CROPS "SPECIAL LANDSCAPE AREA" (SLA)	HAND	183	L
	WATER FEATURE / POOL / SPA "SPECIAL LANDSCAPE AREA" (SLA)	NONE	1,407	L

0 10 20 40FT

1"=20'-0" on 22x34 / 1"=40' on 11x17

SEIDEL ARCHITECTS

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VILLA STREET

MOUNTAIN VIEW, CA

L2.20

PLANTING PLAN

06/21/2018

CITY OF MOUNTAIN VIEW

WATER BUDGET CALCULATION WORKSHEET - ELECTRONIC

[1]

Project Site Address: Z

Please Note: A Water Budget Calculation Worksheet is required ONLY if:

(1) High-water-use plants are included in the landscaped area, and/or
(2) Less than 80% of the landscape area is planted with California Native and/or low-water-use plants

SECTION A. MAXIMUM APPLIED WATER ALLOWANCE (MAWA)

Table A-1. Hydrozone Area Information

[2] Enter Data Here	[3] Enter Data Here	[4] Enter Data Here	[5] Enter Data Here
Hydrozone Label	Plant Water Use Type	Plant Type	Hydrozone Area *(square feet)*
Zone 1	Low	High Screen	5,838
Zone 2	Low	Low Water Use (Sun)	4,273
Zone 3	Mixed (Mod / Low)	Medium Water Use (Sun)	849
Zone 4	Low	Low Water Use (Shade)	5,222
Zone 5	Mixed (Mod / Low)	Medium Water Use (Shade)	0
Zone 6	Mixed (Mod / Low)	Stormwater	3,827
Zone 7	Special Landscape Area (SLA)	Seasonal Food Crops	183
Zone 8	Special Landscape Area (SLA)	Pool and Spa	1,407

[6]

Summary of Hydrozone Area Information

Summary Area	Area *(square feet)*
Sum of Low-Water-Use Areas	15,333
Sum of Moderate & Mixed-Water-Use Areas	4,676
Sum of High-Water-Use Areas	0
Sum of Special Landscape Areas	1,590
Sum of all Landscape Areas	21,599

[7]

Maximum Applied Water Allowance = 282,437 gallons per year.

SECTION B. ESTIMATED TOTAL WATER USE (ETWU)

Table B-1. Plant Factor and Irrigation System Information

[1]	[1]	[1]	[2]	[1]	[3] Enter Data Here	[4]	
Hydrozone Label	Plant Water Use Type	Plant Type	Plant Factor (PF)	Hydrozone Area (HA) square feet	Irrigation Method	Irrigation Efficiency (IE)	ETWU *(gal/yr)*
Zone 1	Low	High Screen	0.3	5,838	Drip	0.81	57,645
Zone 2	Low	Low Water Use (Su	0.3	4,273	Drip	0.81	42,192
Zone 3	Mixed (Mod / Low)	Medium Water Use	0.5	849	Drip	0.81	13,972
Zone 4	Low	Low Water Use (Sh	0.3	5,222	Drip	0.81	51,562
Zone 5	Mixed (Mod / Low)	Medium Water Use	0.5	0	Drip	0.81	0
Zone 6	Mixed (Mod / Low)	Stormwater	0.5	3,827	Drip	0.81	62,980
Zone 7	SLA	Seasonal Food Crop	1.0	183	Drip	0.81	4,879
Zone 8	SLA	Pool and Spa	1.0	1,407	Drip	0.81	37,511

[5]

Hydrozone areas, irrigation methods and efficiencies are entered where required: OK

[6]

Estimated Total Water Use = 270,741 gallons/year

[7]

SECTION C. COMPARISON OF ETWU AND MAWA

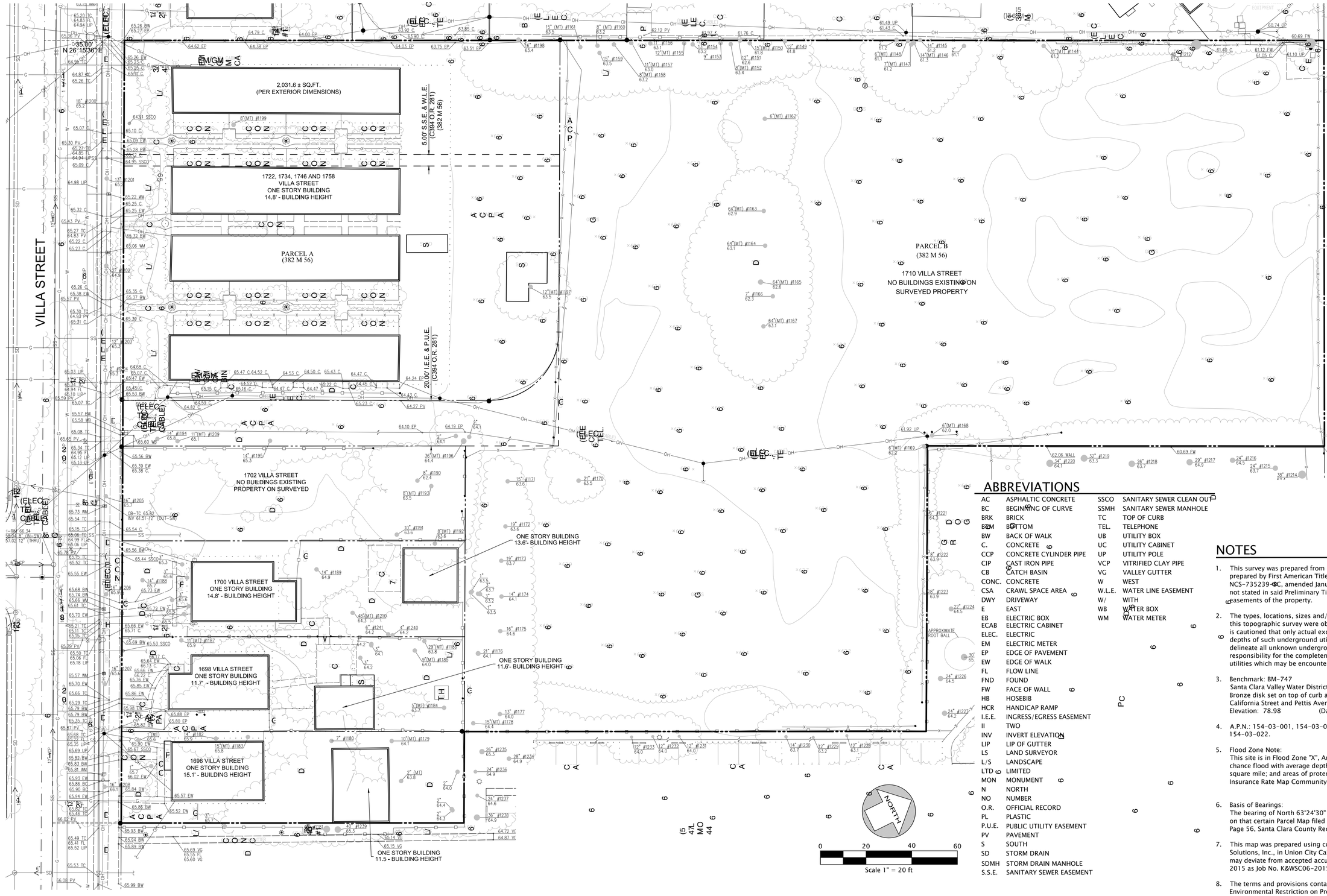
The calculated ETWU may not exceed the calculated MAWA.

MAWA= 282,437 *[from Section A]* **≥ ETWU = 270,741** *[from Section B]*

[8]

Congratulations! Your electronic Water Budget Calculation Worksheet is complete.

Please print Sections A, B & C and submit them with your application.



LEGEND

- PROPERTY LINE
- ADJACENT PROPERTY LINE
- CENTERLINE
- MONUMENT LINE
- EASEMENT
- BUILDING LINE
- BUILDING OVERHANG
- FOUND MONUMENT AS NOTED
- FOUND IRON PIPE OR AS NOTED
- BENCHMARK
- BOLLARD LIGHT
- LIGHT
- STREET LIGHT
- FIRE HYDRANT
- STORM DRAIN MANHOLE
- MANHOLE
- CLEAN OUT
- GAS METER
- UTILITY POLE W/ GUY WIRE
- VALVE
- CATCH BASIN / DROP INLET
- WATER METER
- MONITORING WELL
- UTILITY BOX (SIZE VARIES)
- SIGN
- TREE W/ SIZE AND ELEVATION
- SPOT ELEVATION
- AERIAL SPOT ELEVATION
- CONTOUR
- INDEX CONTOUR
- CURB
- CURB & GUTTER
- CONCRETE
- COMMUNICATION
- FENCE
- EDGE OF PAVEMENT
- SINGLE TREE
- TREES AND BRUSH
- SANITARY SEWER
- STORM DRAIN
- WATER
- GAS
- OVERHEAD

ABBREVIATIONS

AC	ASPHALTIC CONCRETE	SSCO	SANITARY SEWER CLEAN OUT
BC	BEGINNING OF CURVE	SSMH	SANITARY SEWER MANHOLE
BRK	BRICK	TC	TOP OF CURB
BTM	BOTTOM	TEL.	TELEPHONE
BW	BACK OF WALK	UB	UTILITY BOX
C.	CONCRETE	UC	UTILITY CABINET
CCP	CONCRETE CYLINDER PIPE	UP	UTILITY POLE
CIP	CAST IRON PIPE	VCP	VITRIFIED CLAY PIPE
CB	CATCH BASIN	VG	VALLEY GUTTER
CONC.	CONCRETE	W	WEST
CSA	CRAWL SPACE AREA	W.L.E.	WATER LINE EASEMENT
DWY	DRIVEWAY	W/	WITH
E	EAST	WB	WATER BOX
EB	ELECTRIC BOX	WM	WATER METER
ECAB	ELECTRIC CABINET		
ELEC.	ELECTRIC		
EM	ELECTRIC METER		
EP	EDGE OF PAVEMENT		
EW	EDGE OF WALK		
FL	FLOW LINE		
FND	FOUND		
FW	FACE OF WALL		
HB	HOSEBIB		
HCR	HANDICAP RAMP		
I.E.E.	INGRESS/EGRESS EASEMENT		
II	TWO		
INV	INVERT ELEVATION		
LIP	LIP OF GUTTER		
LS	LAND SURVEYOR		
L/S	LANDSCAPE		
LTD	LIMITED		
MON	MONUMENT		
N	NORTH		
NO	NUMBER		
O.R.	OFFICIAL RECORD		
PL	PLASTIC		
P.U.E.	PUBLIC UTILITY EASEMENT		
PV	PAVEMENT		
S	SOUTH		
SD	STORM DRAIN		
SDMH	STORM DRAIN MANHOLE		
S.S.E.	SANITARY SEWER EASEMENT		

NOTES

1. This survey was prepared from information furnished in a Preliminary Title Report, prepared by First American Title Company, dated January 14, 2016, Order No. NCS-735239-SC, amended January 20, 2016. No liability is assumed for matters of record not stated in said Preliminary Title Report that may affect the title lines, or exceptions, or easements of the property.

2. The types, locations, sizes and/or depths of existing underground utilities as shown on this topographic survey were obtained from sources of varying reliability. The contractor is cautioned that only actual excavation will reveal the types, extent, sizes, locations and depths of such underground utilities. (A reasonable effort has been made to locate and delineate all unknown underground utilities.) However, the engineer can assume no responsibility for the completeness or accuracy of its delineation of such underground utilities which may be encountered, but which are not shown on these drawings.

3. Benchmark: BM-747
   Santa Clara Valley Water District Vertical Benchmark.
   Bronze disk set on top of curb at the West end of return on the Northwesterly corner of California Street and Pettis Avenue, City of Mountain View.
   Elevation: 78.98 (Datum) NAVD88

4. A.P.N.: 154-03-001, 154-03-002, 154-03-019, 154-03-020, 154-03-021 and 154-03-022.

5. Flood Zone Note:
   This site is in Flood Zone "X", Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas of protected levees from 1% annual chance flood. Per Flood Insurance Rate Map Community No. 060347 0039 H dated May 18, 2009.

6. Basis of Bearings:
   The bearing of North 63°24'30" West taken on the monument line of Villa Street as shown on that certain Parcel Map filed for record on November 5, 1976 in Book 382 of Maps at Page 56, Santa Clara County Records was taken as the Basis of all Bearings shown hereon.

7. This map was prepared using computer assisted, photogrammetric methods by MIRA Solutions, Inc., in Union City California. In areas of dense vegetation, accuracy of contours may deviate from accepted accuracy standards. The date of Photography was June 18, 2015 as Job No. K&WSC06-2015_042.

8. The terms and provisions contained in the document entitled "Covenant and Environmental Restriction on Property (Civil Code Section 1471)" recorded March 29, 2010 as Instrument No. 20659469 of Official Records. (Affects Parcel Five)

SEIDEL ARCHITECTS
PROMETHEUS
KIER & WRIGHT
CIVIL ENGINEERS & SURVEYORS, INC.
3350 Scott Boulevard, Building 22
Santa Clara, California 95054
(408) 727 6665
fax (408) 727 5641

VILLA STREET

MOUNTAIN VIEW, CA

C1.0
TOPOGRAPHIC SURVEY
6/21/2018

SEIDEL ARCHITECTS

PROMETHEUS

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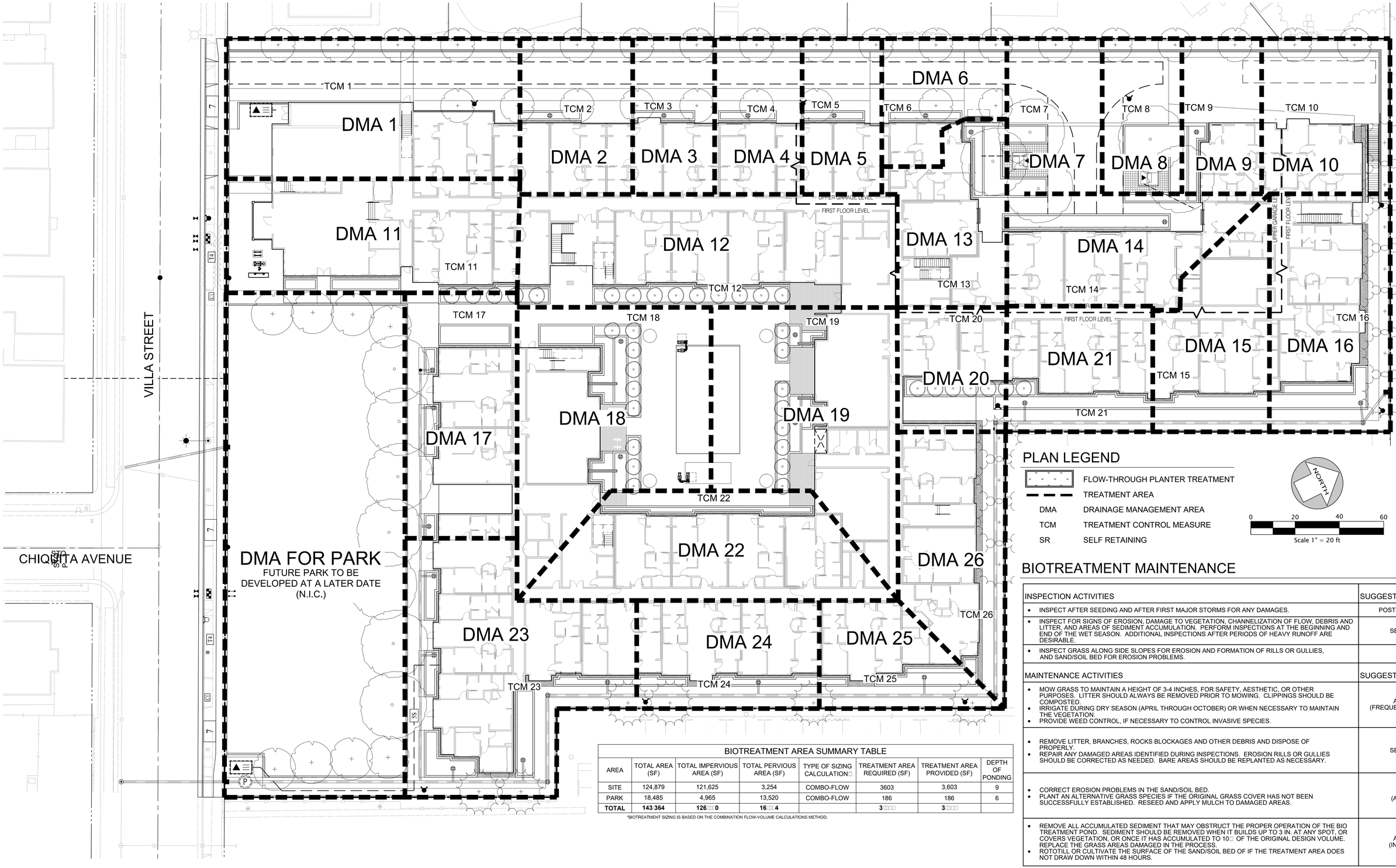
Santa Clara, California 95054 fax (408) 727 5641

VILLA STREET

MOUNTAIN VIEW, CA

C2.0
CONCEPTUAL GRADING AND UTILITY PLAN
6/21/2018



BIOTREATMENT AREA SUMMARY TABLE

AREA	TOTAL AREA (SF)	TOTAL IMPERVIOUS AREA (SF)	TOTAL PERVIOUS AREA (SF)	TYPE OF SIZING CALCULATION□	TREATMENT AREA REQUIRED (SF)	TREATMENT AREA PROVIDED (SF)	DEPTH OF PONDING
SITE	124,879	121,625	3,254	COMBO-FLOW	3603	3,603	9
PARK	18,485	4,965	13,520	COMBO-FLOW	186	186	6
TOTAL	**143□364**	**126□□0**	**16□□4**		**3□□□**	**3□□□**	

*BIOTREATMENT SIZING IS BASED ON THE COMBINATION FLOW-VOLUME CALCULATIONS METHOD.

BIOTREATMENT MAINTENANCE

INSPECTION ACTIVITIES	SUGGESTED FREQUENCY
• INSPECT AFTER SEEDING AND AFTER FIRST MAJOR STORMS FOR ANY DAMAGES.	POST-CONTRUCTION
• INSPECT FOR SIGNS OF EROSION, DAMAGE TO VEGETATION, CHANNELIZATION OF FLOW, DEBRIS AND LITTER, AND AREAS OF SEDIMENT ACCUMULATION. PERFORM INSPECTIONS AT THE BEGINNING AND END OF THE WET SEASON. ADDITIONAL INSPECTIONS AFTER PERIODS OF HEAVY RUNOFF ARE DESIRABLE.	SEMI-ANNUAL
• INSPECT GRASS ALONG SIDE SLOPES FOR EROSION AND FORMATION OF RILLS OR GULLIES, AND SAND/SOIL BED FOR EROSION PROBLEMS.	ANNUAL
MAINTENANCE ACTIVITIES	**SUGGESTED FREQUENCY**
• MOW GRASS TO MAINTAIN A HEIGHT OF 3-4 INCHES, FOR SAFETY, AESTHETIC, OR OTHER PURPOSES. LITTER SHOULD ALWAYS BE REMOVED PRIOR TO MOWING. CLIPPINGS SHOULD BE COMPOSTED. • IRRIGATE DURING DRY SEASON (APRIL THROUGH OCTOBER) OR WHEN NECESSARY TO MAINTAIN THE VEGETATION. • PROVIDE WEED CONTROL, IF NECESSARY TO CONTROL INVASIVE SPECIES.	AS NEEDED (FREQUENT, SEASONALLY)
• REMOVE LITTER, BRANCHES, ROCKS BLOCKAGES AND OTHER DEBRIS AND DISPOSE OF PROPERLY. • REPAIR ANY DAMAGED AREAS IDENTIFIED DURING INSPECTIONS. EROSION RILLS OR GULLIES SHOULD BE CORRECTED AS NEEDED. BARE AREAS SHOULD BE REPLANTED AS NECESSARY.	SEMI-ANNUAL
• CORRECT EROSION PROBLEMS IN THE SAND/SOIL BED. • PLANT AN ALTERNATIVE GRASS SPECIES IF THE ORIGINAL GRASS COVER HAS NOT BEEN SUCCESSFULLY ESTABLISHED. RESEED AND APPLY MULCH TO DAMAGED AREAS.	ANNUAL (AS NEEDED)
• REMOVE ALL ACCUMULATED SEDIMENT THAT MAY OBSTRUCT THE PROPER OPERATION OF THE BIO TREATMENT POND. SEDIMENT SHOULD BE REMOVED WHEN IT BUILDS UP TO 3 IN. AT ANY SPOT, OR COVERS VEGETATION, OR ONCE IT HAS ACCUMULATED TO 10□ OF THE ORIGINAL DESIGN VOLUME. REPLACE THE GRASS AREAS DAMAGED IN THE PROCESS. • ROTOTILL OR CULTIVATE THE SURFACE OF THE SAND/SOIL BED OF IF THE TREATMENT AREA DOES NOT DRAW DOWN WITHIN 48 HOURS.	AS NEEDED (INFREQUENT)

SEIDEL ARCHITECTS

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VILLA STREET
MOUNTAIN VIEW, CA

C3.0
CONCEPTUAL STORMWATER MANAGEMENT PLAN
6/21/2018

SOURCE CONTROL MEASURES IMPLEMENTED

SD-10: SITE DESIGN & LANDSCAPE PLANNING
- MAXIMIZED TREES AND PLANTING WITHIN HARDSCAPE AND LANDSCAPE AREAS.
- VEGETATED SLOPES FOR ALL LANDSCAPE SLOPES LESS THAN 1:5 SLOPE.

SD-11: EFFICIENT IRRIGATION
- RAIN-TRIGGERED SHUTOFF DEVICES TO PREVENT IRRIGATION AFTER PRECIPITATION.
- SYSTEM DESIGNED TO SITE-SPECIFIC WATER DEMANDS AND PLANTING REQUIREMENTS.

SD-13: STORM DRAIN SIGNAGE
- ALL CATCH BASINS TO BE STENCILED WITH PROHIBITIVE LANGUAGE PER CITY STANDARDS.

STORMWATER CONTROL NOTES

1. THE EXISTING SITE SOILS CONSIST OF CLAY (TYPE D) SOILS.
2. THE SITE STORM DRAIN RUNOFF WILL BE FILTERED BY BIOTREATMENT AREAS. ALL STORM WATER DRAINS TO THE PUBLIC STORM DRAIN SYSTEM WITHIN VILLA STREET.
3. POTENTIAL POLLUTANTS INCLUDE MOTOR VEHICLE LUBRICANTS, COOLANTS, DISC BRAKE DUST, LITTER AND DEBRIS. POLLUTANT SOURCE AREAS INCLUDE THE ASPHALT CONCRETE PARKING LOT AND DRIVE AISLES, THE ROOF OF THE BUILDING, AND THE SITE STORM DRAIN INLETS. ALL INLETS WILL BE MARKED "NO DUMPING - DRAINS TO BAY". THE PARKING LOT SHALL BE SWEPT REGULARLY TO PREVENT THE ACCUMULATION OF LITTER AND DEBRIS.
4. BIOTREATMENT AREA SHOWN ARE SCHEMATIC AND WILL BE ADJUSTED DURING FINAL DESIGN.
5. BIOTREATMENT SIZING IS BASED ON THE COMBINATION FLOW/VOLUME BASED METHOD PER SCVURPPP HANDBOOK CHAPTER 5. FINAL SIZING MAY BE BASED ON EITHER THE FLOW BASED OR COMBINATION FLOW/VOLUME BASED METHOD ALLOWED IN CHAPTER 5.
6. DOWNSPOUTS WILL BE DISCONNECTED AND DISCHARGE TO FLOW THROUGH PLANTERS AROUND PERIMETER OF BUILDING AS MAIN SOURCE OF TREATMENT FOR ROOF AREAS.

Worksheet for Calculating the Combination Flow and Volume Method

1.0 Project Information

1-1	Project Name:	Villa Street	
1-2	City application ID:	San Jose	
1-3	Site Address or APN:	Site Name	
1-4	Tract or Parcel Map No:	Parcel Number	
1-5	Site Mean Annual Precip. (MAP)[1]	15.0	Inches
1-6	Applicable Rain Gauge[2]	Palo Alto (SCVURPPP)	

These calculations are based on the combination flow and volume hydraulic sizing method provided in the Alameda, San Mateo, and Santa Clara County C.3 Technical Guidance Manuals. The steps presented below are explained in Chapter 5, Section 5.1 of the guidance manuals.

Refer to the Mean Annual Precipitation Map in Appendix D of the C.3 Technical Guidance to determine the MAP, in inches, for the site. Click here for map

MAP adjustment factor is automatically calculated as: 1.09

(The "Site Mean Annual Precipitation (MAP)" is divided by the MAP for the applicable rain gauge, shown in Table 5.2, below.)

2.0 Calculate Percentage of Impervious Surface for Drainage Management Area (DMA)

2-1 Name of DMA: DMA 1

For items 2-2 and 2-3, enter the areas in square feet for each type of surface within the DMA.

	Type of Surface	Area of surface type within DMA (Sq. Ft)	Adjust Pervious Surface	Effective Impervious Area
2-2	Impervious Surface	121,625	1.0	121,625
2-3	Pervious Surface*	3,254	0.1	325
	Total DMA Area (square feet) =	124,879		
2-4			*Total Effective Impervious Area (EIA)*	121,950 Square feet

*Self-Treating and Self-Retaining not included

3.0 Calculate Unit Basin Storage Volume in Inches

Table 5-2: Unit Basin Storage Volumes (in inches) for 80 Percent Capture Using 48-Hour Drawdowns

Applicable Rain Gauge	Mean Annual Precipitation (in)	Unit Basin Storage Volume (in) for Applicable Runoff Coefficients (Calculated for 100% Imperviousness)
San Jose Airport (SCVURPPP)	13.9	0.58
Palo Alto (SCVURPPP)	13.7	0.62
Palo Alto (SMCWPPP)	14.6	0.64
Gilroy (SCVURPPP)	18.2	1.00
Morgan Hill (SCVURPPP)	19.5	1.00
Boulder Creek (SMCWPPP)	55.9	2.04
La Honda (SMCWPPP)	24.4	0.86
Half Moon Bay (SMCWPPP)	25.92	0.82
San Francisco (SMCWPPP)	21	0.73
San Francisco Airport (SMCWPPP)	20.1	0.85
San Francisco Oceanside (SMCWPPP)	19.3	0.72
Oakland Airport (CWPAC)	18.35	1.00

3-1 ***Unit basin storage volume from Table 5.2:*** 0.62 Inches
(The coefficient for this method is 1.00, due to the conversion of any landscaping to effective impervious area)

3-2 ***Adjusted unit basin storage volume:*** 0.68 Inches
(The unit basin storage volume is adjusted by applying the MAP adjustment factor.)

3-3 ***Required Capture Volume (in cubic feet):*** 6,899 Cubic feet
(The adjusted unit basin sizing volume [inches] is multiplied by the size of the DMA and converted to feet)

4.0 Calculate the Duration of the Rain Event

4-1	Rainfall intensity	0.2	Inches per hour
4-2	Divide Item 3-2 by Item 4-1	3.39	Hours of Rain Event Duration

5.0 Preliminary Estimate of Surface Area of Treatment Measure

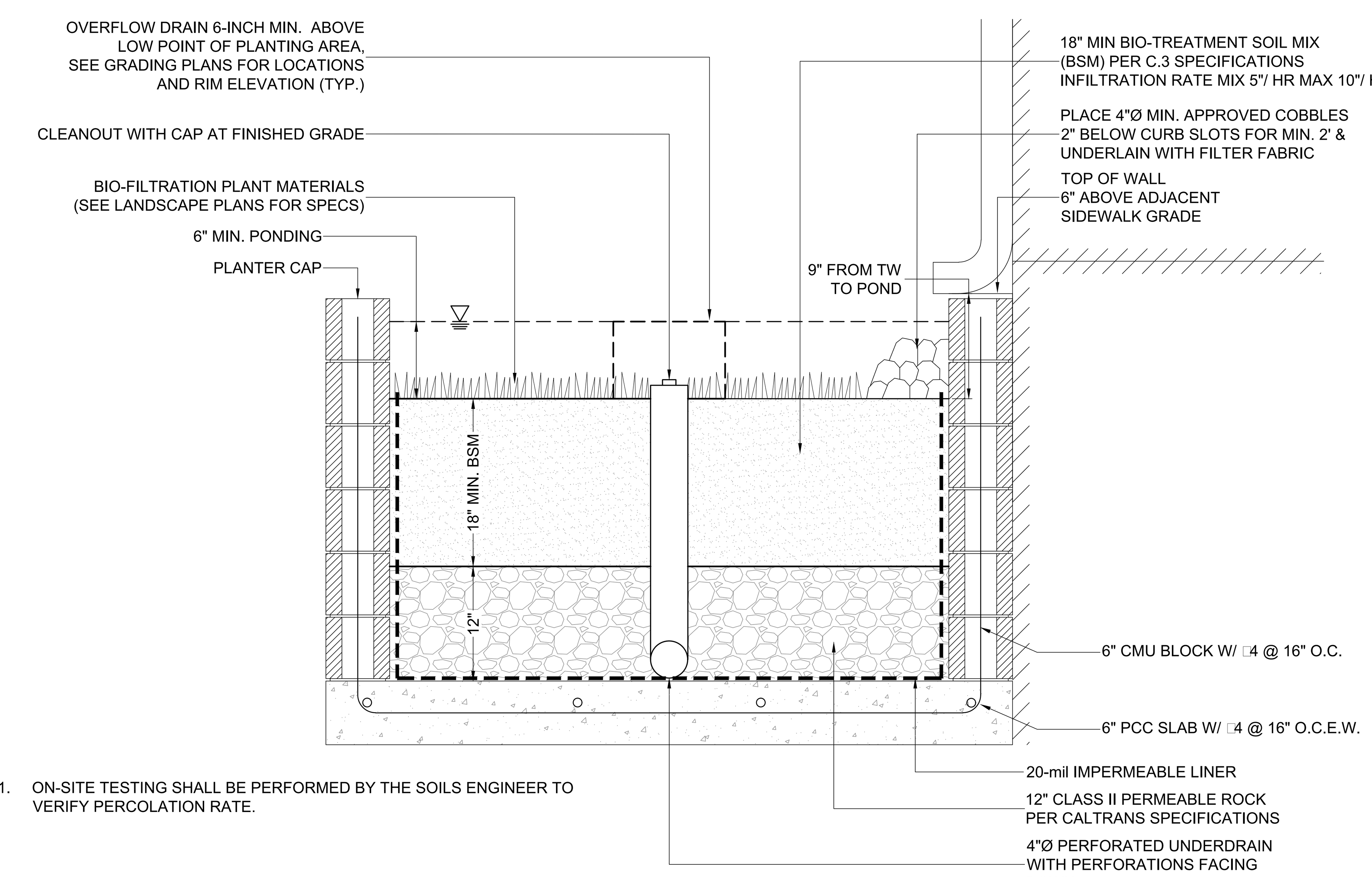
5-1	4% of DMA impervious surface	4,878	Square feet
5-2	3% of DMA impervious surface	3,659	Square feet
5-3	Volume of treated runoff for area in Item 5-2	5,174	Cubic feet (Item 5-2 * 5 inches per hour * 1/12 * Item 4-2)

6.0 Initial Adjustment of Depth of Surface Ponding Area

6-1	Subtract Item 5-3 from Item 3-3	1,725	Cubic feet (Amount of runoff to be stored in ponding area)
6-2	Divide Item 6-1 by Item 5-2	0.5	Feet (Depth of stored runoff in surface ponding area)
6-3	Convert Item 6-2 from ft to inches	5.7	Inches (Depth of stored runoff in surface ponding area)
6-4	If ponding depth in Item 6-3 meets your target depth of 6"-12", then Item 7-1 is equal to Item 5-2. If not, continue to Step 7-1.		

7.0 Optimize Size of Treatment Measure

7-1	Enter actual treatment area larger or smaller than Item 5-2 based off plans.	3206	Sq.ft. (enter larger area if you need less ponding depth; smaller for more depth.)
7-2	Volume of treated runoff for area in Item 7-1	4,534	Cubic feet (Item 7-1 * 5 inches per hour * 1/12 * Item 4-2)
7-3	Subtract Item 7-2 from Item 3-3	2,365	Cubic feet (Amount of runoff to be stored in ponding area)
7-4	Divide Item 7-3 by Item 7-1	0.74	Feet (Depth of stored runoff in surface ponding area)
7-5	Convert Item 7-4 from feet to inches	8.9	Inches (Depth of stored runoff in surface ponding area)
7-6	If the ponding depth in Item 7-5 meets target, stop here. If not, repeat Steps 7-1 through 7-5 until you obtain target depth. If the slope of the drainage area > 1%, then 11" will be the max ponding depth (slopes >1% will increase the ponding depth by 0.2 inches).		



1. ON-SITE TESTING SHALL BE PERFORMED BY THE SOILS ENGINEER TO VERIFY PERCOLATION RATE.

FLOW THROUGH PLANTER

N.T.S.

SEIDEL ARCHITECTS

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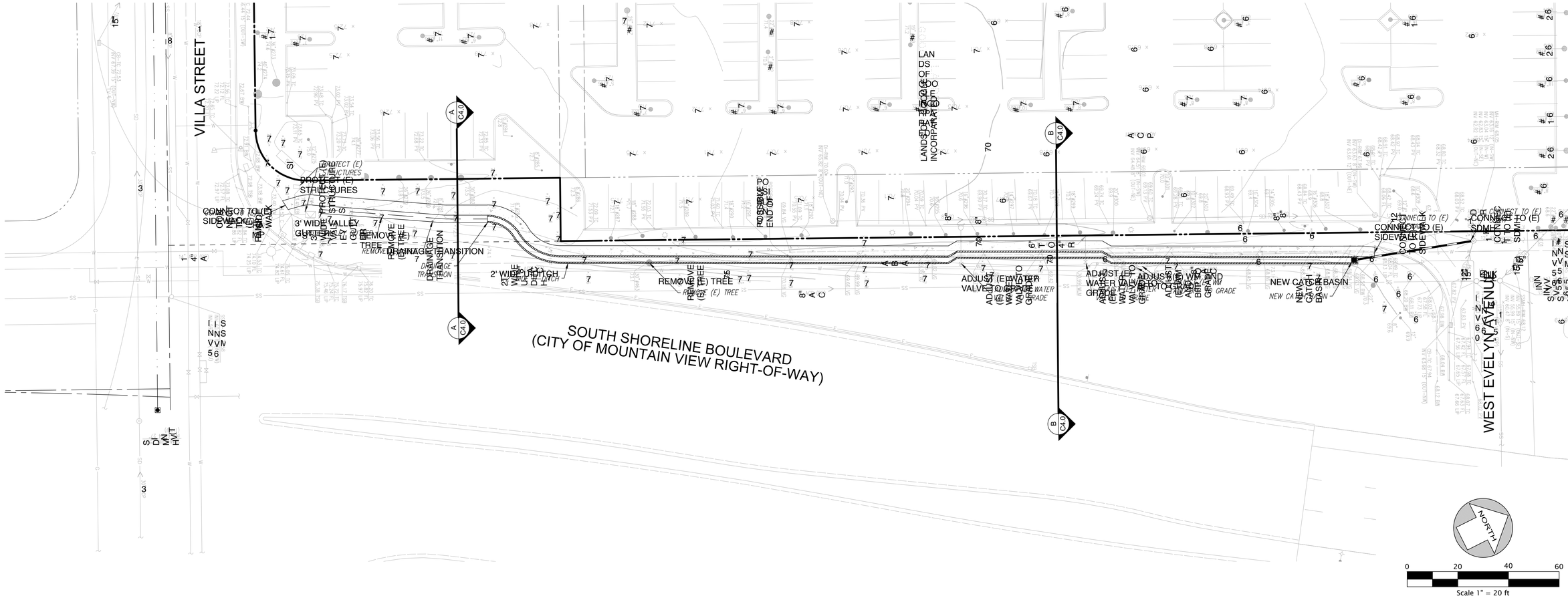
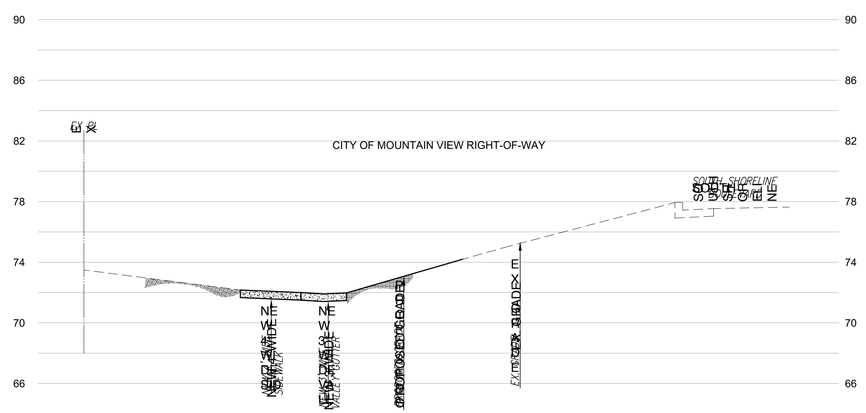
Santa Clara, California 95054 fax (408) 727 5641

VILLA STREET

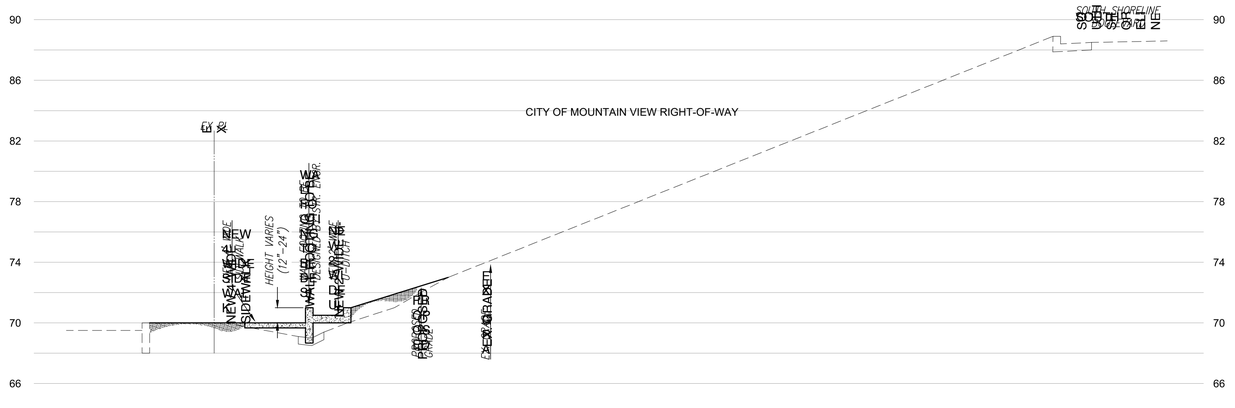
MOUNTAIN VIEW, CA

C3.1
CONCEPTUAL STORMWATER MANAGEMENT PLAN
6/21/2018





A SECTION A-A
SCALE: H 1" = 5'
V 1" = 5'



B SECTION B-B
SCALE: H 1" = 5'
V 1" = 5'

SEIDEL ARCHITECTS

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fax (408) 727 5641

VILLA STREET

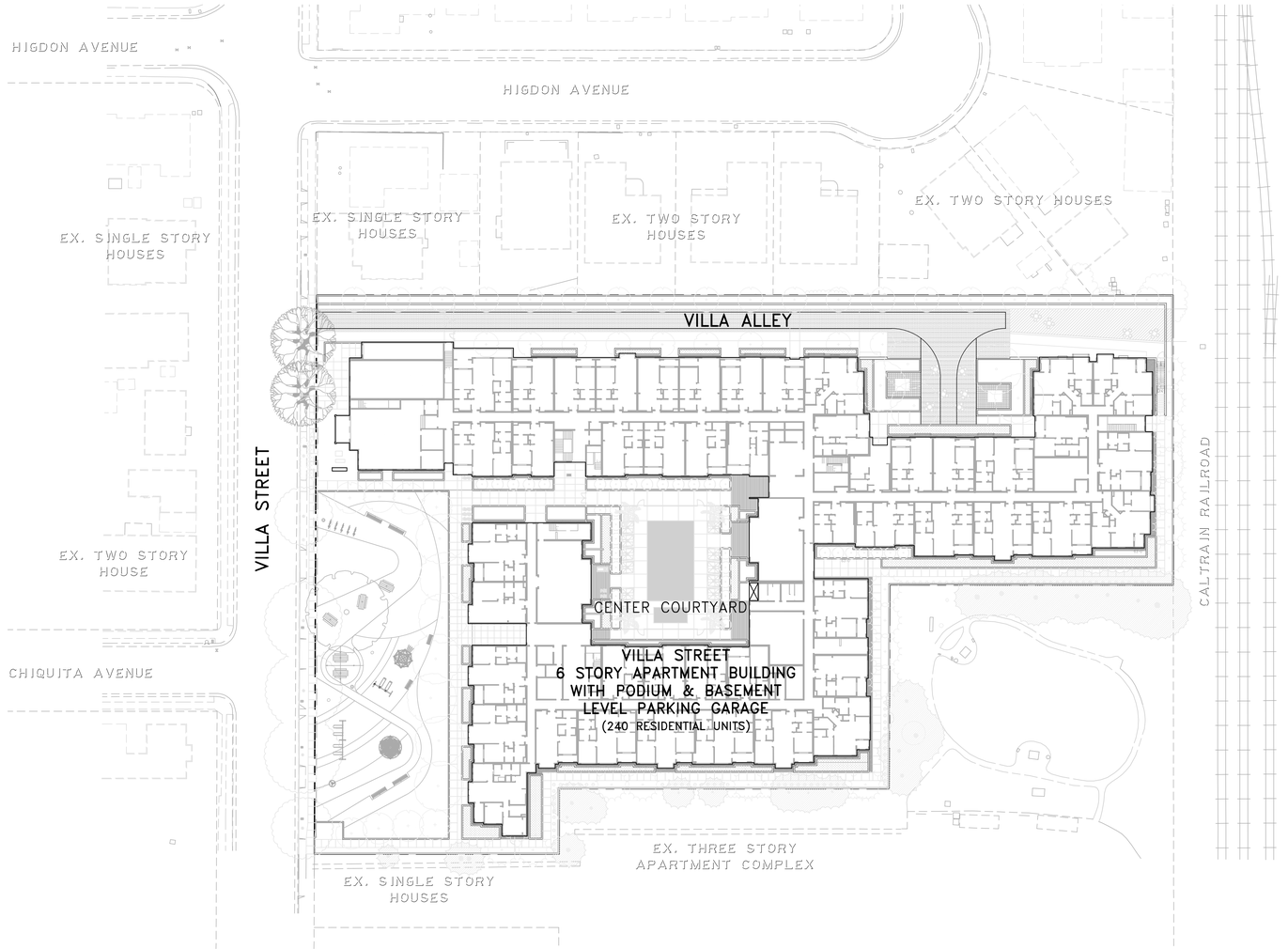
MOUNTAIN VIEW, CA

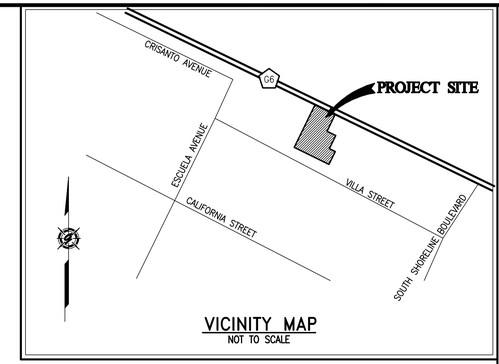
C4.0

WEST EVELYN SIDEWALK IMPROVEMENTS
6/21/2018

PROMETHEUS REAL ESTATE GROUP, INC.
VILLA STREET
MOUNTAIN VIEW, CALIFORNIA

(JOINT TRENCH INTENT - NOT FOR CONSTRUCTION)





VICINITY MAP
NOT TO SCALE

INDEX MAP

40 0 20 40 80
(IN FEET)
1 INCH = 40 FT.

NOTE

PLEASE VERIFY THAT THE SERVICE POINTS IN THIS DRAWING MATCH YOUR DESIGN. IF THERE ARE ANY DISCREPANCIES, PLEASE CONTACT THE PROJECT MANAGER IN OUR OFFICE.

NOTE TO UTILITIES:
PLEASE INDICATE TIE-IN POINTS ON INTENT RESPONSE

PRELIMINARY PLANS NOT FOR CONSTRUCTION

REVISIONS

SYMBOL	DATE	DESCRIPTION	APPROVED

GIACALONE DESIGN SERVICES, INC.
5820 STONERIDGE MALL RD., #245 | PLEASANTON, CA 94588
925.467.1740 | WWW.GIACALONEDESIGN.COM

JOINT TRENCH INTENT TITLE SHEET
PROMETHEUS REAL ESTATE GROUP, INC.
VILLA STREET
MOUNTAIN VIEW CALIFORNIA

PROJECT MANAGER: DAVE CROWFOOT
DRAWN BY: D. SHAY
CHECKED BY: DSC
SCALE: 1"=40'
JOB NUMBER: 16-096
DATE LAST MODIFIED: 06-21-18
SHEET INT1
OF 2 SHEETS

PROJECT TEAM CONTACTS

COMPANY:	CONTACT:	PHONE:
PROMETHEUS REAL ESTATE GROUP, INC.	MICHAEL DUCOTE	650-931-3457
KIER AND WRIGHT	MARK KNUDSEN/RYAN AMAYA	408-727-6665
PG&E - CUPERTINO		
AT&T - SAN BRUNO	ROOSEVELT GEORGE III	650-872-6062
CABLECOM - FAIRFIELD	FRANK MORALES	707-759-4070
SEIDEL ARCHITECTS	CHAD GARRETY/ALEX SEIDEL	415-397-5535
STUDIO T SQUARE	CHEK TANG	510-451-2850
2.INK STUDIO - LANDSCAPE	PAUL WROBLEWSKI	503-543-4645
GIACALONE DESIGN SERVICES, INC.	DAVE CROWFOOT	925-467-1740

PG&E PM NO.

ELECTRIC:
RULE 15:
RULE 16:
RULE 20:
RELOC:

GAS:
RULE 15:
RELOC:

LATEST FILES RECEIVED

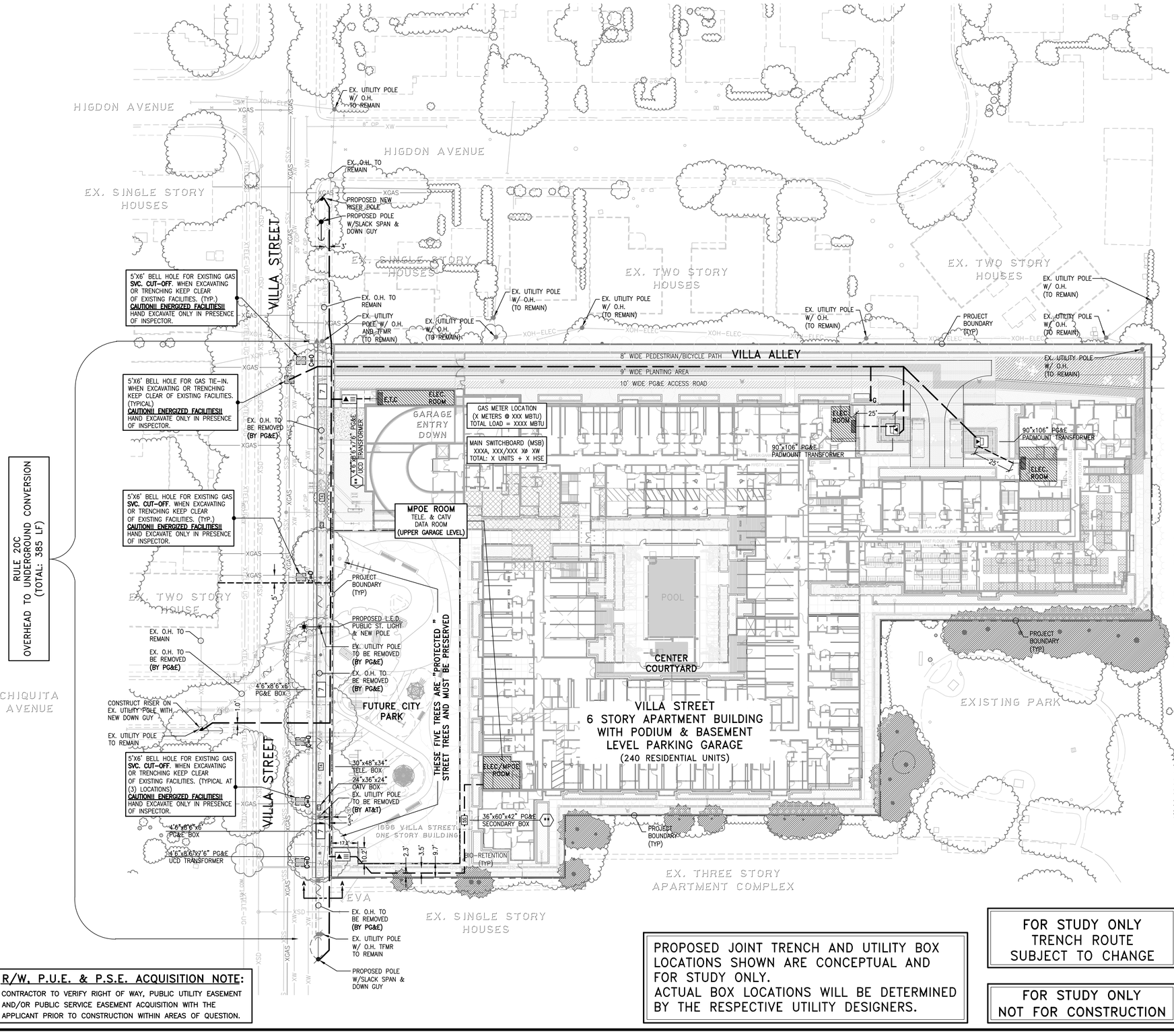
DESCRIPTION:	BY:	DATE:	STATUS:
GAS DESIGN	GDSI		
ELECTRIC DESIGN	GDSI		
TELEPHONE LAYOUT	AT&T		
CATV LAYOUT	CABLECOM		
STREET LIGHT PLANS - PUBLIC	GDSI	06-20-18	
STREET LIGHT PLANS - PRIVATE			
IMPROVEMENT PLANS (ELECTRONIC FILE)	KIER & WRIGHT	06-20-18	

A=Approved • ANS=Approved Not Signed • NA=Not Approved • F=First Submittal • SS=Second Submittal

PROJECT DESCRIPTION & SCOPE

- NEW SERVICE TO (240) APT UNITS
- 385 LF± OF O.H. TO U.G. CONVERSION ALONG VILLA STREET
- PUBLIC STREET LIGHT

SHEET INDEX



LEGEND

- EXISTING TRENCH OR UTILITIES
- PROPOSED TRENCH (DISTRIBUTION)
- PROPOSED TRENCH (SERVICE)
- PROPOSED STREET LIGHT TRENCH
- EXISTING UTILITY SPLICE BOX
- 5S — 36"x60"x30" PG&E SECONDARY BOX
- 7 — 4'6"x8'6"x6' PG&E SPLICE BOX
- 4'6"x8'6"x7'6" PG&E UCD TRANSFORMER
- 90"x106" PG&E PAD MOUNT TRANSFORMER
- T4 — 30"x48"x34" TELEPHONE SPLICE BOX
- C1 — 24"x36"x14" CATV BOX (B40)
- EXISTING STREET LIGHT
- EXISTING POST TOP STREET LIGHT
- EXISTING UTILITY POLE
- EXISTING UTILITY POLE GUY ANCHOR
- PG&E SKETCH LOCATION NUMBER
- (F.V.T.) FULL VEHICULAR TRAFFIC LID
- (N.T.S.) NOT TO SCALE
- (U.O.N.) UNLESS OTHERWISE NOTED

R/W, P.U.E. & P.S.E. ACQUISITION NOTE:
CONTRACTOR TO VERIFY RIGHT OF WAY, PUBLIC UTILITY EASEMENT AND/OR PUBLIC SERVICE EASEMENT ACQUISITION WITH THE APPLICANT PRIOR TO CONSTRUCTION WITHIN AREAS OF QUESTION.

PROPOSED JOINT TRENCH AND UTILITY BOX LOCATIONS SHOWN ARE CONCEPTUAL AND FOR STUDY ONLY.
ACTUAL BOX LOCATIONS WILL BE DETERMINED BY THE RESPECTIVE UTILITY DESIGNERS.

FOR STUDY ONLY
TRENCH ROUTE
SUBJECT TO CHANGE

FOR STUDY ONLY
NOT FOR CONSTRUCTION

NOTE
PLEASE VERIFY THAT THE SERVICE POINTS IN THIS DRAWING MATCH YOUR DESIGN. IF THERE ARE ANY DISCREPANCIES, PLEASE CONTACT THE PROJECT MANAGER IN OUR OFFICE.

NOTE TO UTILITIES:
PLEASE INDICATE TIE-IN POINTS ON INTENT RESPONSE

PRELIMINARY PLANS
NOT FOR CONSTRUCTION

TWO DAYS BEFORE YOU DIG
CALL USA TOLL FREE 811
CALL BEFORE YOU DIG

REVISIONS			
SYMBOL	DATE	DESCRIPTION	APPROVED

GIACALONE DESIGN SERVICES, INC.
5820 STONERIDGE MALL RD., #245 | PLEASANTON, CA 94588
925.467.1740 | WWW.GIACALONEDESIGN.COM

JOINT TRENCH INTENT

PROMETHEUS REAL ESTATE GROUP, INC.
VILLA STREET
MOUNTAIN VIEW CALIFORNIA

PROJECT MANAGER:	DAVE CROWFOOT
DRAWN BY:	D. SHAY
CHECKED BY:	DSC
SCALE:	1"=30'
JOB NUMBER:	16-096
DATE LAST MODIFIED:	06-21-18
SHEET	INT2
OF	2 SHEETS

VILLA STREET - PUBLIC STREET LIGHTING

XSP Series

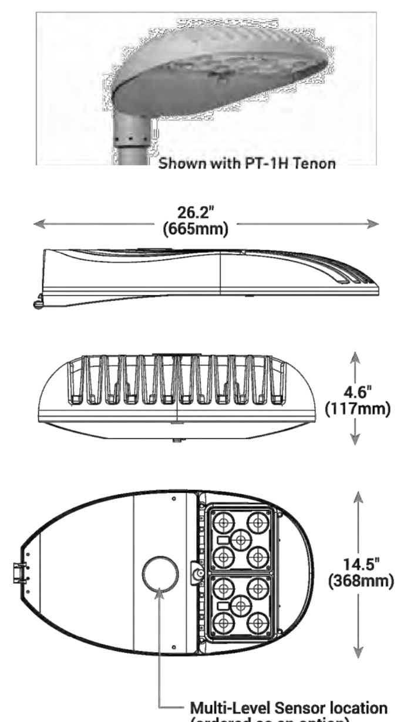
XSP2™ LED Street/Area Luminaire – Double Module – Version B

Villa Street-Mountain View, CA

Product Description

Designed from the ground up as a totally optimized LED street and area lighting system, the XSP Series delivers incredible efficiency without sacrificing application performance. Beyond substantial energy savings and reduced maintenance, Cree achieves greater optical control with our NanoOptic® Precision Delivery Grid™ optic when compared to traditional cobra head luminaires. The XSP Series is the better alternative for traditional street and area lighting with quick payback and improved performance.

Applications: Roadway, parking lots, walkways and general area spaces



Shown with Type 5ME Optics

Performance Summary

- NanoOptic® Precision Delivery Grid™ optic
- Assembled in the U.S.A. of U.S. and imported parts
- **CRI:** Minimum 70 CRI
- **CCT:** 4000K (+/- 300K); 5700K (+/- 500K)
- **Limited Warranty**[†]: 10 years on luminaire/10 years on Colorfast DeltaGuard® finish

[†] See http://lighting.cree.com/warranty for warranty terms

Accessories

Field-Installed	
Backlight Control Shield XA-SP2BLS - Provides 1/2 mounting height cutoff	**Bird Spikes** XA-SP2BRDSPK

Voltage	Weight
120-277V	26 lbs. (12.0kg)
347-480V	29 lbs. (13.2kg)

Ordering Information

Example: BXSP-B-HT-2ME-B-40K-UL-SV

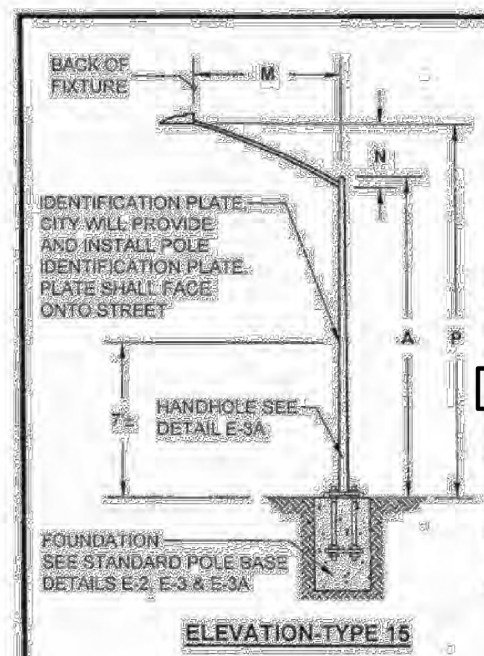
BXSP	B	HT	3ME	B	40K	UL	SV	N-Q6
Product	Version	Mounting	Optic	Input Power Designator	CCT	Voltage	Color Options	Options
BXSP	B	HT Horizontal Tenon	**Asymmetric** 2LG* Type II Long; 2ME* Type II Medium; 3ME* Type III Medium; 4ME* Type IV Medium; **Symmetric** 5ME Type V Medium; 5SH Type V Short	B 101W	40K 4000K; 57K 5700K	UL Universal 120-277V; UH** Universal 347-480V	BK Black; BZ Bronze; SV Silver; WH White	F Fuse - When code dictates fusing, use time delay fuse - Available for US applications only; G Small Four Point Mounting - Mounts to 1.25" (32mm) IP, 1.66" (42mm) O.D. horizontal tenon; J Large Four Point Mounting - Mounts to 2" (51mm) IP, 2.375" (60mm) O.D. horizontal tenon; ML Multi-Level - Refer to ML spec sheet for details - Available with UL voltage only - High: 100%, Low: 26%; N-Q9/Q8/Q7/Q6/Q5/Q4 Utility Label, NEMA® 7-Pin Photocell Receptacle & Field Adjustable Output - Must select Q9, Q8, Q7, Q6, Q5 or Q4 - Settings Q3-Q1 are not available with N option - External wattage label per ANSI C136.15 based on Q setting selected - 7-pin receptacle per ANSI C136.41 - Factory connected 0-10V dim leads - Photocell and shorting cap by others - Power/lumens may only be adjusted down in the field - Refer to page 6 for power and lumen values; Q9/Q8/Q7/Q6/Q5/Q4/Q3/Q2/Q1 Field Adjustable Output - Must select Q9, Q8, Q7, Q6, Q5, Q4, Q3, Q2, or Q1 - Power/lumens are fully adjustable in the field - Refer to page 6 for power and lumen values; R NEMA® 7-Pin Photocell Receptacle - 7-pin receptacle per ANSI C136.41 - Factory connected 0-10V dim leads - Photocell and shorting cap by others; UTL Utility Label - Includes exterior wattage label per ANSI C136.15 that indicates the maximum available wattage of the luminaire

* Available with Backlight Shield when ordered with field-installed accessory (see table above)
** 347-480V utilizes magnetic step-down transformer. For input power for 347-480V, refer to the Electrical Data table

Rev. Date: V5 R1 10/17/2017

CREE

US: lighting.cree.com T (800) 236-6800 F (262) 504-5415
Canada: www.cree.com/canada T (800) 473-1234 F (800) 890-7507



ELEVATION-TYPE 15

POLE TYPE	A HEIGHT	MIN. O.D. BASE	MIN. O.D. TOP	WALL THICKNESS
15	30'-0"	8"	3-11/16"	0.1196"

LUMINAIRE MAST ARM DATA

M PROJECTED LENGTH	N RISE	MIN. O.D. AT POLE	NOMINAL THICKNESS	P - MOUNTING HEIGHT TYPE 15
6'-0"	2'-0"±	3-1/4"	0.1196"	31'-6"±
8'-0"	2'-6"±	3-1/2"		32'-0"±
10'-0"	3'-3"±	3-7/8"		32'-9"±
12'-0"	4'-3"±	3-7/8"		33'-9"±
15'-0"	4'-9"±	4-1/4"		34'-3"±

LED STREETLIGHT FIXTURE: LEOTEK EC-SERIES, GE ERS1-SERIES OR APPROVED EQUAL

STREET LIGHT DESIGN CRITERIA

LAND USE AND/OR STREET CLASSIFICATION	MINIMUM MAST ARM LENGTH (FT)	LEDs WATTAGE (W)	LUMENS (Lm)	VOLTAGE (V)
RESIDENTIAL	6	≤35	2,500-3,000	120-277
COMMERCIAL	12	≤75	6,500-7,000	120-277
INDUSTRIAL	12	≤75	6,500-7,000	120-277
ARTERIAL	12-15	≤35	8,000-9,000	120-277
INTERSECTION (SIGNAL & NON-SIGNAL)	12-15	≤145	10,900-12,000	120-277
MID-BLOCK CROSSWALKS				

NOTES:
1. HANDHOLE SHALL BE LOCATED ON DOWNSTREAM SIDE OF TRAFFIC.
2. POLE AND MAST ARM MUST BE UNPAINTED GALVANIZED STEEL.
3. SEE CURRENT CALTRANS STANDARD PLANS FOR LUMINAIRE MAST ARM CONNECTION DETAIL.
4. LUMINAIRES MUST BE LIGHT EMITTING DIODE (LED) WITH 4000K TO 4500K COLOR TEMPERATURE.
5. LEDs MUST PROVIDE ILLUMINATING ENGINEERING SOCIETY (IES) TYPE II DISTRIBUTION UNLESS OTHERWISE NOTED ON THE PLANS.
6. EACH STREETLIGHT MUST HAVE AN INDIVIDUAL AND INDEPENDENT PHOTO CELL.

Revision | Date | Approved
Drawn: TE | Date: 08-23-2016
Checked: AB | Scale: NTS
APPROVED BY: No. 57093 Jacqueline Solomon 9/2/2016 12/31/2017 57093
DATE EXP. R.C.E. NO.
PROFESSIONAL CIVIL STATE OF CALIFORNIA

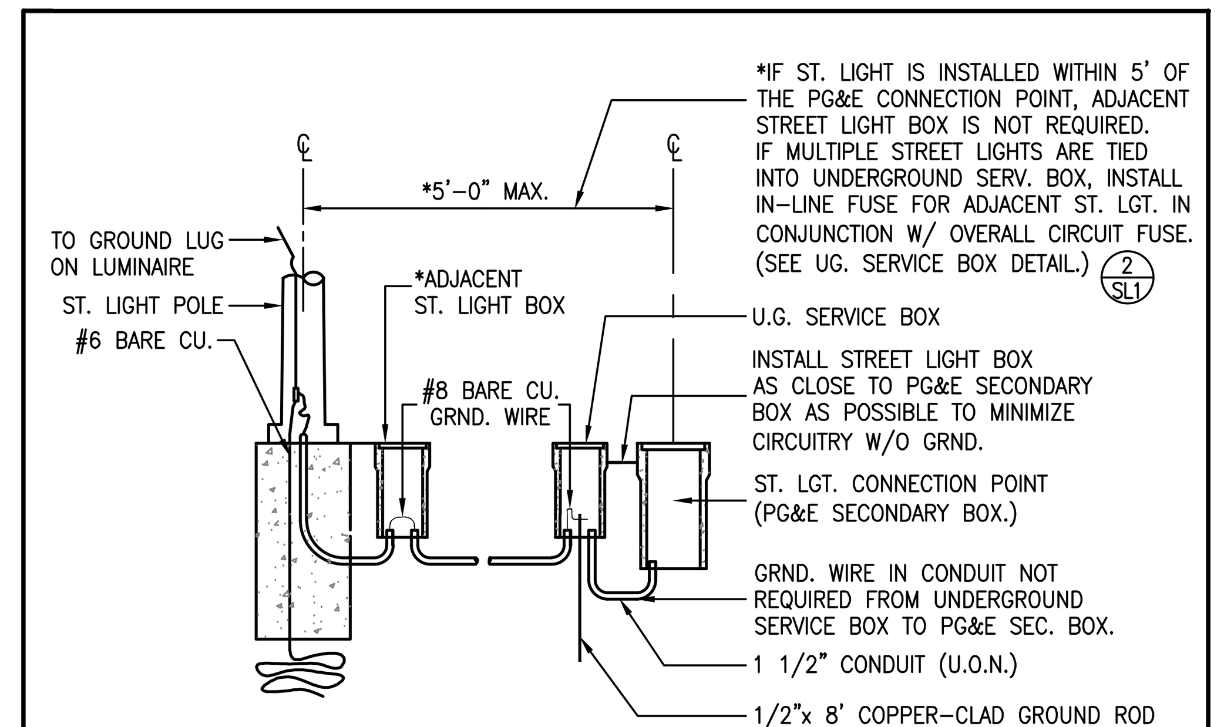
CITY OF MOUNTAIN VIEW
PUBLIC WORKS DEPARTMENT
STANDARD DETAIL

STANDARD ELECTROLIER

FILE NO. E-1

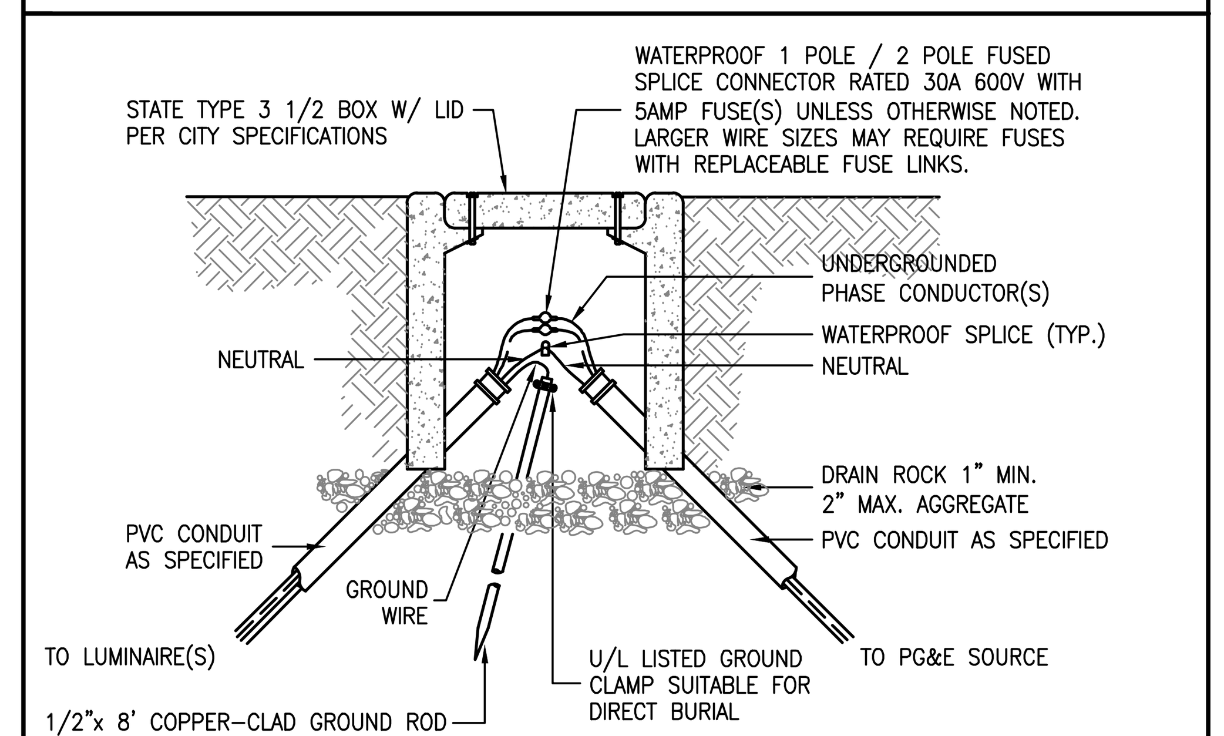
STREET LIGHTING GENERAL NOTES

1. ALL WORK AND MATERIALS SHALL BE IN FULL ACCORDANCE WITH THE LATEST RULES AND REGULATIONS OF THE STATE FIRE MARSHALL, FEDERAL AND ALL APPLICABLE CITY, COUNTY, STATE AND LOCAL UTILITY COMPANY REGULATIONS; N.E.C., AND THE LATEST APPROVED STANDARDS OF I.E.E.E., A.S.A, N.E.M.A., U.L. AND OSHA WHERE APPLICABLE. NOTHING IN THESE PLANS OR SPECIFICATIONS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE ABOVE. ALSO, ALL SECTIONS OF STATE OF CALIFORNIA PUC G.O. 95 SHALL APPLY.
2. MATERIALS FURNISHED UNDER THIS SECTION OF THESE SPECIFICATIONS FOR WHICH UL STANDARDS HAVE BEEN ESTABLISHED SHALL BE LISTED AND BEAR THE LABEL OF UNDERWRITER'S LABORATORIES, INC.
3. WHERE REQUIREMENTS OF APPLICABLE CODES AND STANDARDS CONFLICT WITH THE DRAWINGS OR THESE SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT SHALL GOVERN.
4. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY FIELD CHANGES MADE WITHOUT FIRST NOTIFYING & OBTAINING APPROVAL FROM CITY/COUNTY AGENCY & GIACALONE DESIGN SERVICES, INC.
5. GIACALONE DESIGN SERVICES, INC. ASSUMES NO RESPONSIBILITY FOR ANY VARIANCE BETWEEN THESE PLANS AND THE ACTUAL FIELD CONDITIONS. CONTRACTOR SHOULD REVIEW PROJECT SITE PRIOR TO SUBMITTING ITS BID.
6. LEGEND SYMBOLS ARE SHOWN IN STREET AREA FOR CLARITY. INSTALL BEHIND CURB AND/OR SIDEWALK PER COUNTY SPECIFICATIONS KEEP CLEAR OF DRIVEWAYS AND PATHWAYS (TYPICAL).
7. ANY CHANGES OR MODIFICATIONS TO PROPOSED STREET LIGHT LOCATIONS SHALL BE APPROVED, IN WRITING, BY THE CITY/COUNTY AGENCY PRIOR TO INSTALLATION.



1/SL1 STREET LIGHT GROUNDING DETAIL

NOT TO SCALE



2/SL1 UNDERGROUND SERVICE BOX DETAIL

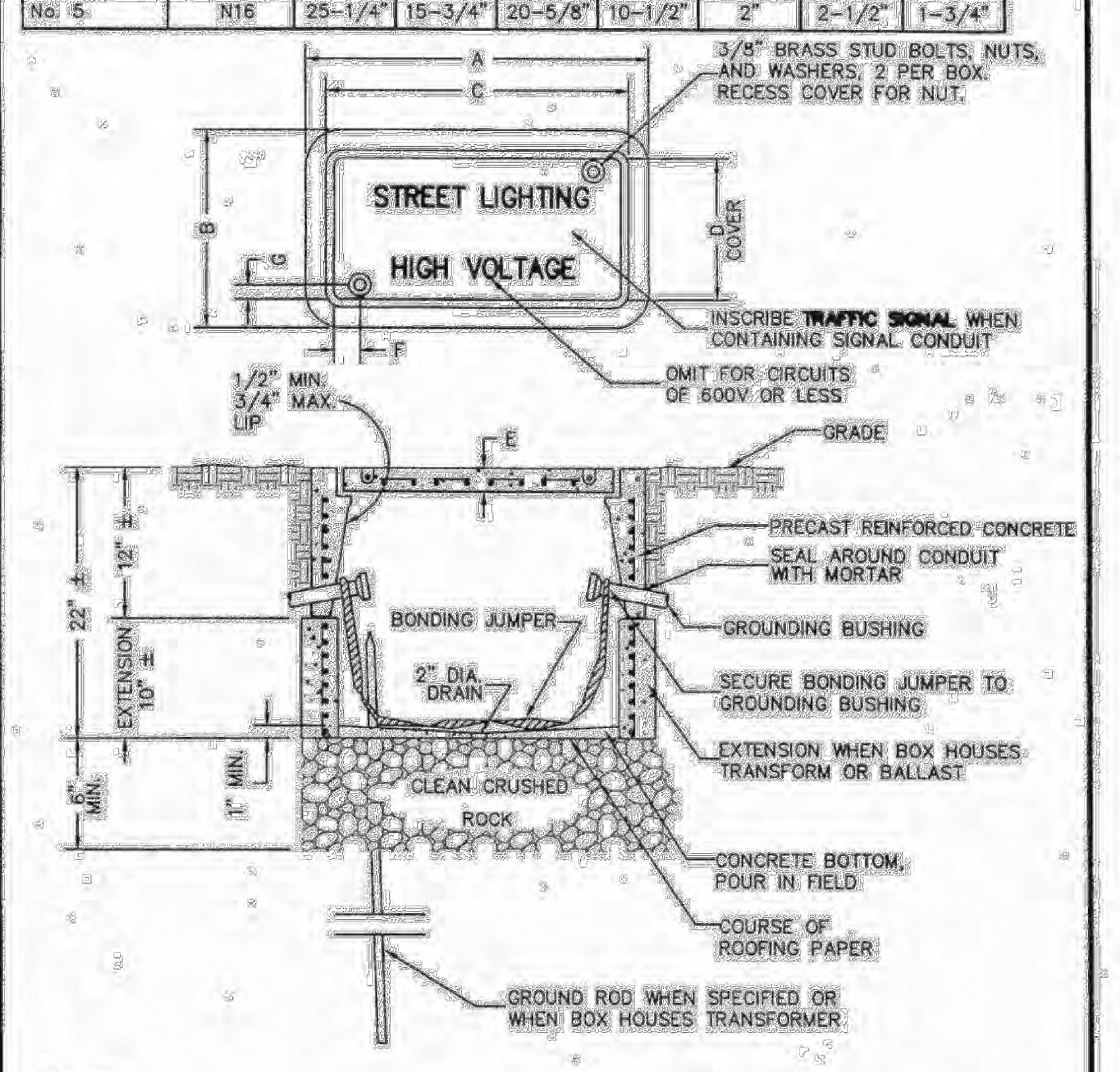
NOT TO SCALE

CONTRACTORS NOTES

1. ALL WORK AND MATERIALS SHALL BE IN FULL ACCORDANCE WITH THE LATEST RULES AND REGULATIONS OF THE STATE FIRE MARSHALL, FEDERAL AND ALL APPLICABLE CITY, COUNTY, STATE AND LOCAL UTILITY COMPANY REGULATIONS; N.E.C., AND THE LATEST APPROVED STANDARDS OF I.E.E.E., A.S.A, N.E.M.A., U.L. AND OSHA WHERE APPLICABLE. NOTHING IN THESE PLANS OR SPECIFICATIONS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE ABOVE. ALSO, ALL SECTIONS OF STATE OF CALIFORNIA PUC G.O. 95 SHALL APPLY.
2. THE ELECTRICAL CONTRACTOR SHALL INSTALL THE UNDERGROUND SERVICE FROM THE LUMINAIRE TO PG&E SERVICE POINT AND TERMINATE CONDUIT AND WIRES AT BOX AS DIRECTED BY PG&E
3. KEEP STREET LIGHTS A MINIMUM OF 3 FEET AWAY FROM THE EDGE OF DRIVEWAYS OR 5 FEET AWAY FROM FIRE HYDRANTS.
4. TWO OR MORE STREET LIGHTS ON THE SAME CIRCUIT SHALL BE WIRED TO BALANCE THE LOAD. (SEE WIRING DIAGRAM)
5. <u>CONDUIT AND FITTINGS</u>: ALL CONDUIT AND FITTINGS SHALL BE U.L. APPROVED. UNLESS OTHERWISE NOTED OR REQUIRED, USE MINIMUM 2" SCHEDULE 40 P.V.C. CONDUIT AND FITTINGS BELOW GRADE. MINIMUM RADIUS BENDS SHALL BE 18". FOR ABOVE GROUND INSTALLATION AND IN POLE BASE, USE METALLIC RIGID STEEL CONDUIT. PROVIDE PULL WIRE IN ALL EMPTY CONDUITS. ALL CROSSINGS TO BE PERPENDICULAR TO STREET.
6. <u>CONDUIT DEPTH</u>: 24" UNDER SIDEWALK; 24" UNDER PLANTER STRIP; 36" UNDER PAVEMENT.
7. <u>CABLE</u>: CABLE SHALL BE U.L. LISTED 600 VOLT A.W.G. NO. 8, 7-STRAND SOFT COPPER, TYPE THW OR THWN WITH MINIMUM OF 3/64" (54 MIL) POLYVINYL CHLORIDE INSULATION, UNLESS OTHERWISE NOTED. U.L. LISTED 600 VOLT, NO. 10 IN POLE MAY BE USED.
8. <u>SPLICE BOXES</u>: SPLICE BOXES SHALL BE NO. 3-1/2 STATE TYPE WITH LID AND BRASS HOLDDOWN BOLTS, UNLESS OTHERWISE NOTED. LIDS TO BE INSCRIBED 'STREET LIGHTING'. SPLICE BOXES SHALL NOT BE MORE THAN 200 FEET APART ON LONG RUNS. (SEE CALTRANS DETAIL ES-8A).
9. <u>FUSES</u>: EACH POLE SHALL BE FUSED WITH WATERPROOF IN-LINE FUSE HOLDERS (BUSHMAN HEB SERIES) AT EACH ADJACENT SPLICE BOX WITH 10 AMP FUSE.
10. <u>SPLICING</u>: ALL SPLICES SHALL BE MADE IN STREET LIGHT BOXES ONLY. SPLICES SHALL BE MADE WITH 'C' SHAPED COMPRESSION CONNECTORS. ON SPLICES, WRAP WITH MOISTURE PROOF INSULATION A MINIMUM OF 1-1/2 TIMES THE THICKNESS OF REQUIRED WIRE INSULATION THICKNESS. SPLICES SHALL BE IN ACCORDANCE WITH CALTRANS STANDARD METHOD 'B'. (SEE CALTRANS DETAIL ES-13A).
11. <u>POLE NUMBERS</u>: OBTAIN AND PLACE POLE NUMBERS ON ALL STREET LIGHT STANDARDS AS REQUIRED. COORDINATE WITH PG&E AND/OR COUNTY. FOR THEIR REQUIREMENTS.
12. <u>TRENCH</u>: CONDUIT CAN BE PLACED IN JOINT TRENCH. CONDUIT LAYOUT IS SHOWN SCHEMATICALLY. SEE COMPOSITE DRAWING FOR TRENCH LOCATION. ANY INCIDENTAL TRENCHING NOT PROVIDED BY TRENCHING AGENT IS CONTRACTOR'S RESPONSIBILITY.
13. CONTRACTOR TO INSTALL CIRCUIT GROUNDING AND GROUND WIRE IN CONDUIT AS PER PLANS.
14. CENTERLINE OF STREET LIGHTS SHALL BE LOCATED ON THE LOT LINE UNLESS OTHERWISE NOTED ON THESE PLANS.
15. A LIST OF ALL MATERIALS & SUPPLIERS SHOULD BE PROVIDED TO AUTHORITY HAVING JURISDICTION FOR APPROVAL.
16. <u>BURN TEST</u>: DAY BURN FOR 24 HOURS FOR 5 CONSECUTIVE DAYS FOR COUNTY INSPECTOR APPROVAL.
17. GROUNDING AND BONDING SHALL PROPERLY INTERCONNECT ALL METAL PARTS OF THE SYSTEM.
18. ALL CONNECTIONS SHALL BE SECURED WITH LOCK NUTS AND INSULATED BUSHINGS.
19. CONTRACTOR SHALL CONSULT LOCAL AGENCIES FOR THEIR CIRCUIT GROUNDING REQUIREMENTS. IF GROUND WIRE IS REQUIRED IN CONDUIT, INSTALL ACCORDINGLY.
20. WATERPROOF INLINE FUSES SHALL BE PROVIDED IN THE SPLICE BOX NEXT TO EACH NEW OR RELOCATED STREET LIGHT. IF THE DESIGN IS SUCH THAT NO BOXES WILL BE INSTALLED, THE SPLICE SHALL BE LOCATED IN THE HANDHOLE.
21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING A COMPLETE OPERATING SYSTEM.
22. EACH STREET LIGHT SHALL BE CONTROLLED BY A PHOTO ELECTRIC CELL MOUNTED ON TOP OF EACH LUMINAIRE OR THE TOP OF EACH POLE DEPENDING UPON THE MANUFACTURER'S RECOMMENDATIONS OR CONTROLLED BY OTHER MEANS AS SHOWN ON THE DRAWINGS.
23. FOUNDATION MOUNTED ELECTROLIERS SHALL BE PLUMBED BY ADJUSTING THE NUTS ON THE ANCHOR BOLTS BEFORE THE FOUNDATION CAP IS PLACED. SHIMS OR OTHER SIMILAR DEVICES FOR PLUMBING OR RAKING WILL NOT BE PERMITTED. AFTER PLUMBING THE STANDARD, ANCHOR BOLTS SHALL BE CUT OFF 1/4" ABOVE THE NUTS AND THE EXPOSED SURFACES SHALL BE REPAIRED AS INDICATED BY THE INSPECTING AGENCY.
24. AS-BUILT DRAWINGS SHALL BE SUBMITTED TO THE STREET LIGHT ADMINISTRATION DEPT. OF THE COUNTY PRIOR TO ACCEPTANCE OF THE STREET LIGHTING SYSTEM.

PUBLIC/PRIVATE LIGHTING: PUBLIC
PG&E RATE SCHEDULE: LS-2A
INSTALL IN JOINT TRENCH:
INSTALL IN SEPARATE TRENCH: ✓
CITY PERMIT REQUIRED: ✓

PULL BOX	CHRISTY No.	BOX A	BOX B	COVER C	COVER D	COVER E	COVER F	COVER G
No. 3-1/2	N9	19-3/4"	14-1/4"	15-1/4"	10"	1-3/4"		
No. 5	N16	25-1/4"	15-3/4"	20-5/8"	10-1/2"	2"	2-1/2"	1-3/4"



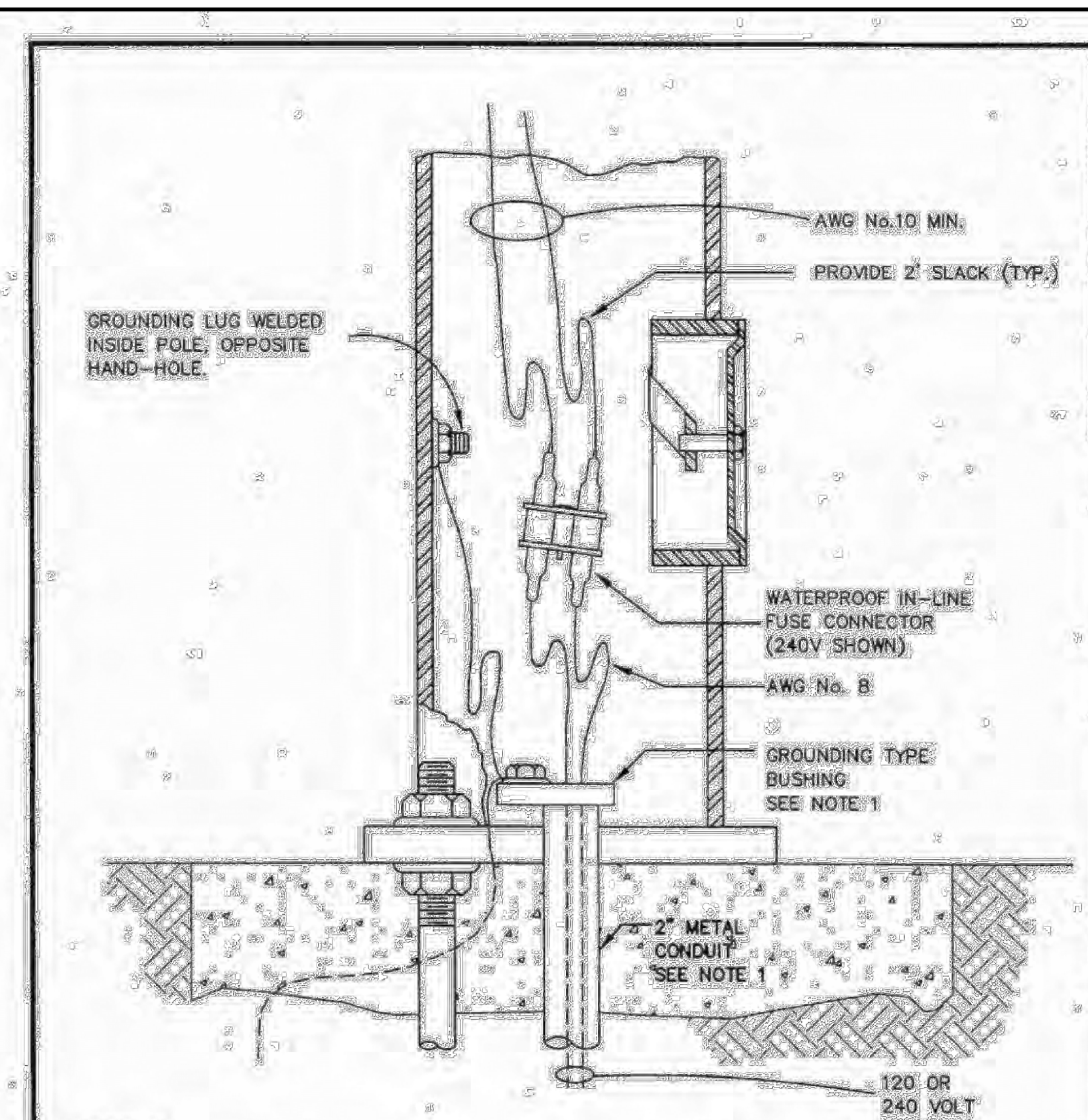
NOTE:
No. 3-1/2 & 5 PULL BOX WITH HOLD-DOWN BOLTS OR APPROVED EQUAL

Revision | Date | Approved
Drawn: QT | Date: 05-99
Checked: RK | Scale: NTS
APPROVED BY: No. 27089 EXP. 03-31-01
ASSISTANT PUBLIC WORKS DIRECTOR
06-29-99 03-31-01 27089
DATE EXP. R.C.E. NO.
REGISTERED PROFESSIONAL ENGINEER TIMOTHY Y. KO STATE OF CALIFORNIA

CITY OF MOUNTAIN VIEW
DEPARTMENT OF PUBLIC WORKS
STANDARD DETAIL

STANDARD PULL BOX

FILE NO. E-4



NOTES:
1. GROUNDING TYPE BUSHING IS NOT REQUIRED FOR PLASTIC CONDUIT. FOR PLASTIC CONDUIT, SPLICE GROUND WIRE IN ELECTROLIER TO GROUND WIRE IN CONDUIT.

Revision | Date | Approved
Drawn: QT | Date: 05-99
Checked: RK | Scale: NTS
APPROVED BY: No. 27089 EXP. 03-31-01
ASSISTANT PUBLIC WORKS DIRECTOR
06-29-99 03-31-01 27089
DATE EXP. R.C.E. NO.
REGISTERED PROFESSIONAL ENGINEER TIMOTHY Y. KO STATE OF CALIFORNIA

CITY OF MOUNTAIN VIEW
DEPARTMENT OF PUBLIC WORKS
STANDARD DETAIL

STREET LIGHT FUSE AND GROUND CONNECTION

FILE NO. E-5

LUMINAIRE SCHEDULE

TYPE	LUMINAIRE	DIST.	MTG. HT.	ARM	POLE HT.	COLOR	MATERIAL	QUANTITY
LED COBRAHEAD	73W, LED, 240V	TYPE 3	31'-9"	6'-0"	30'-0"	SILVER	GALV. STEEL	1

*NOTE: CONTRACTOR TO VERIFY ALL QUANTITIES AND SPECIFICATIONS PRIOR TO ORDERING.

CAUTION:
CONTACT U.S.A. (811) (2) FULL WORKING DAYS PRIOR TO STARTING WORK IF EXISTING UTILITIES CONFLICT WITH POLE LOCATION, FIELD ADJUST TO CLEAR EXISTING UTILITIES A MINIMUM OF 3'-0".

TWO DAYS BEFORE YOU DIG
CALL USA TOLL FREE
811
CALL BEFORE YOU DIG

PRELIMINARY PLANS
NOT FOR CONSTRUCTION

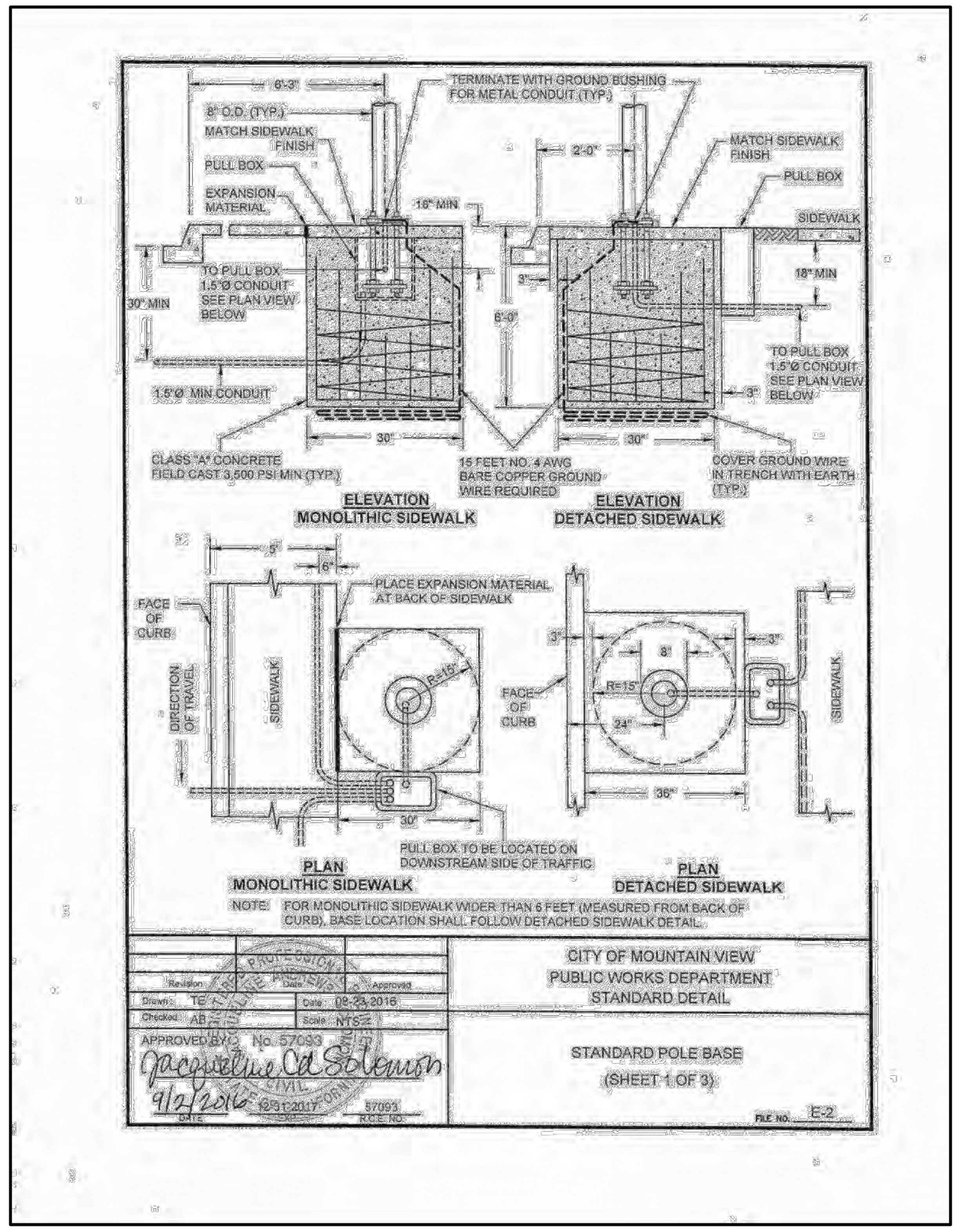
REGISTERED PROFESSIONAL ENGINEER
DAVID SCOT CROWFOOT
E11965
EXP. 9/30/19
ELECTRICAL
STATE OF CALIFORNIA

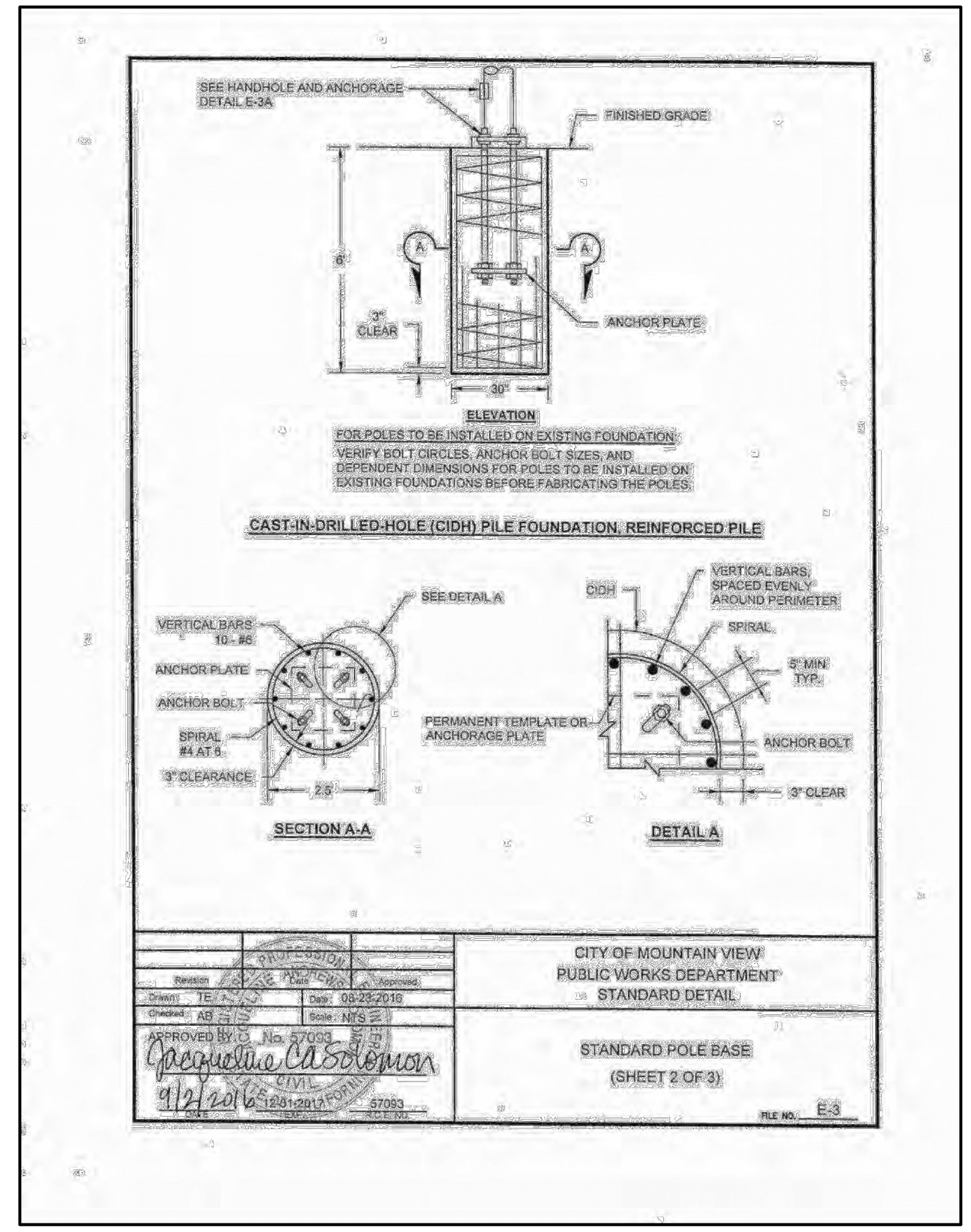
REVISIONS			
SYMBOL	DATE	DESCRIPTION	APPROVED

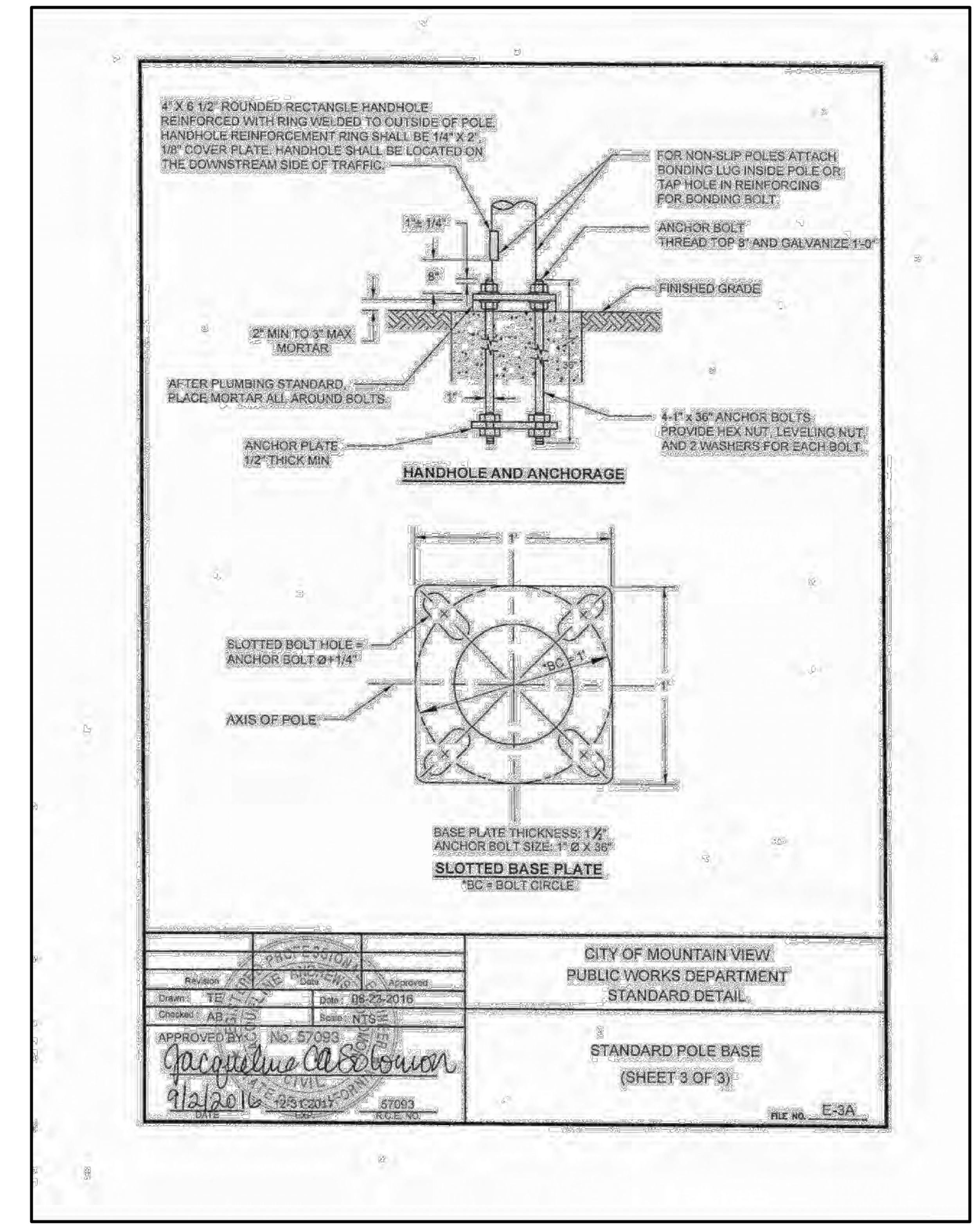
GIACALONE
DESIGN SERVICES, INC.
5820 STONERIDGE MALL RD., #345 | PLEASANTON, CA 94588
925.467.1740 | WWW.GIACALONEDESIGN.COM

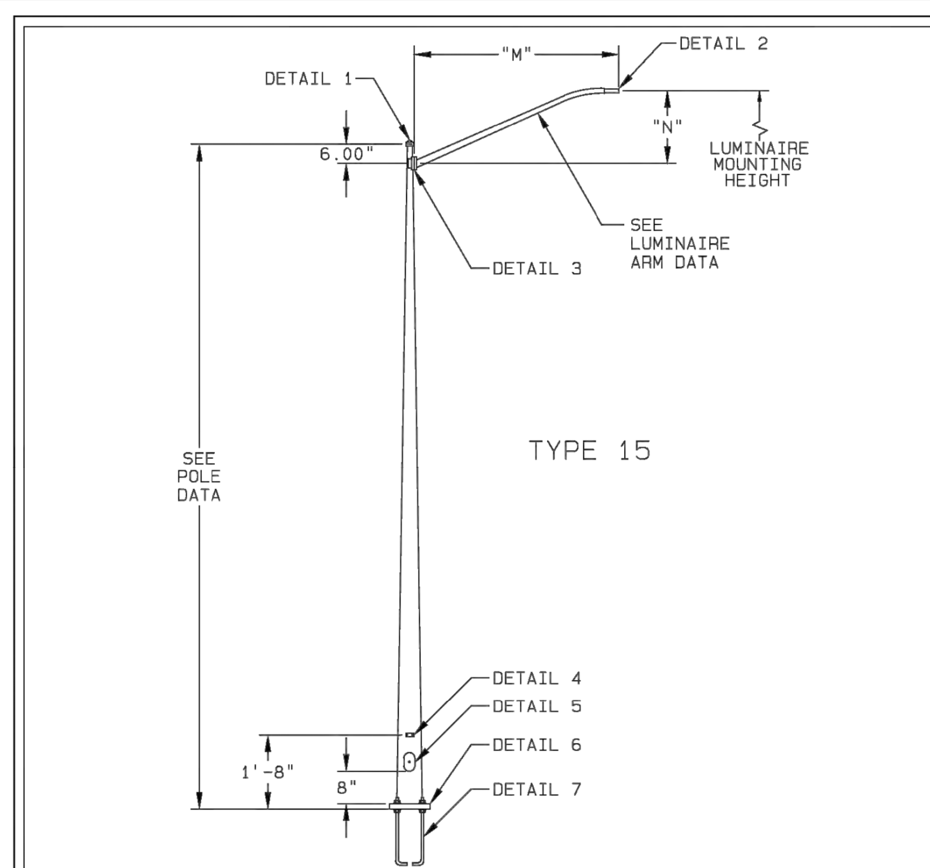
PUBLIC STREET LIGHTING TITLE SHEET
PROMETHEUS REAL ESTATE GROUP, INC.
VILLA STREET
MOUNTAIN VIEW CALIFORNIA

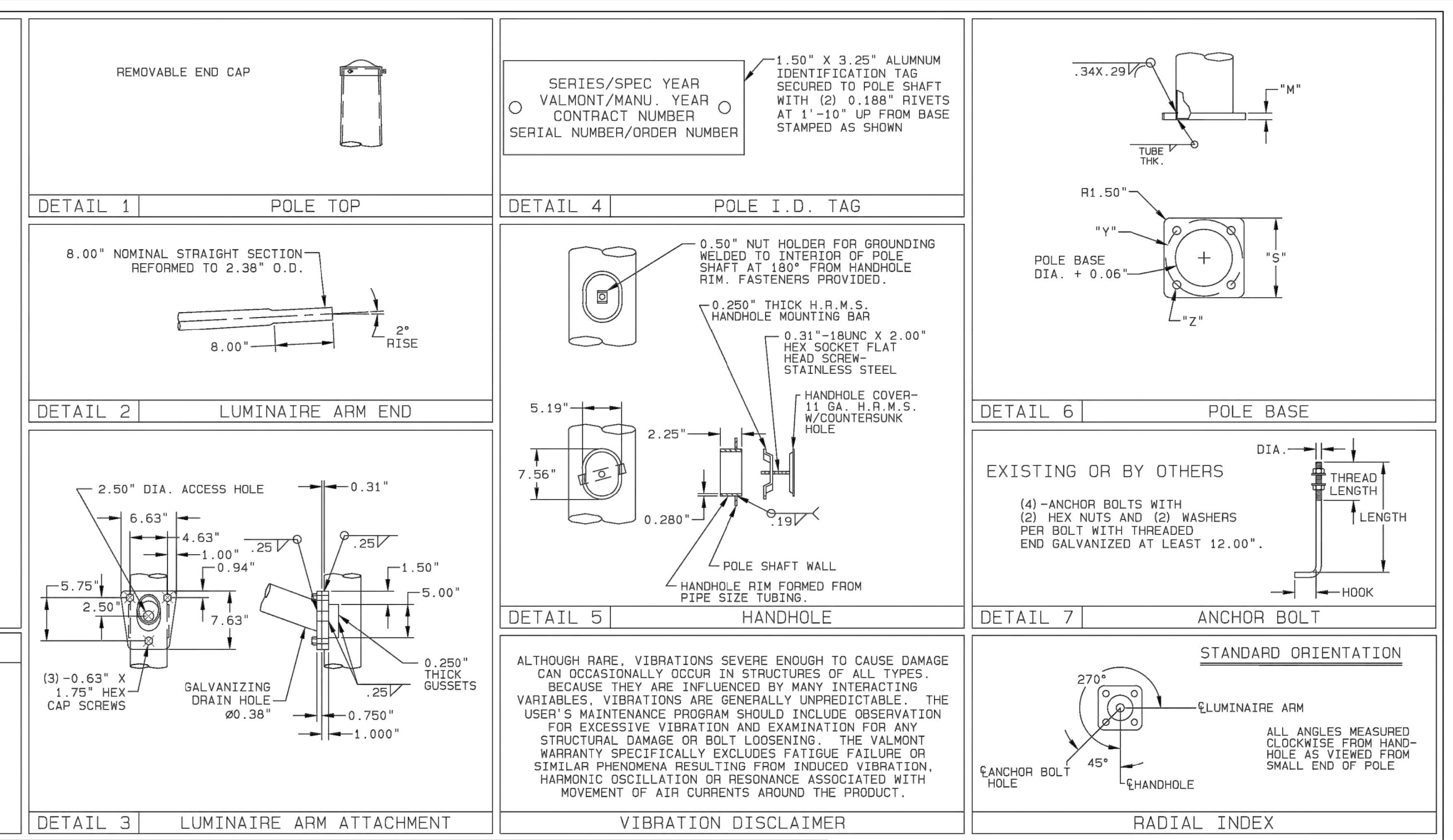
PROJECT MANAGER: DAVE CROWFOOT
DRAWN BY: D. SHAY
CHECKED BY: DSC
SCALE: AS SHOWN
JOB NUMBER: 16-096
DATE LAST MODIFIED: 06-21-18
SHEET SL1
OF 3 SHEETS











MATERIAL DATA

COMPONENT	ASTM DESIGNATION	MIN. YIELD (KSI)
TAPERED TUBES	A595 GR. A	55
PLATES	A36	36
LUM. CONN.BOLTS	A325	--
PIPE / TUBING	A501, A513, A618 A500 GR. B OR C	36
ANCHOR BOLTS	F1554 GR.36	36
	F1554 GR.55	55
HARDWARE COATING	HOT DIP ZINC	--

FINISH DATA

SYSTEM: GALVANIZED - NO AEROSOL REPAIR
BASE COAT: HOT-DIP GALVANIZED TO ASTM A123
PRIME COAT: NONE
FINISH COAT: NONE
COLOR: NONE
SPEC: F-544

POLE & LUMINAIRE ARM DATA

QTY.	POLE TYPE	POLE TUBE: LENGTH "A" (FT)	BASE DIA. (IN)	TOP DIA. (IN)	THICKNESS (IN)	POLE BASE: SQUARE "S" (IN)	BOLT CIRCLE "Y" (IN)	THK. "M" (IN)	HOLE / SLOT "Z" (IN)	ANCHOR BOLTS: DIA. (IN)	LENGTH (IN)	HOOK (IN)	THREAD LENGTH (IN)	LUMINAIRE ARM DATA: PROJECTED LENGTH "M" (FT)	RISE "N" (FT)	ARM BASE DIA. (IN)	THICKNESS (IN)	LUMINAIRE MOUNTING HEIGHT (FT)
1	MOD TYPE 15	30.00	8.00	3.80	0.1196	12.00	11.75-12.25	1.500	1.25 X 1.75	1.00	36.00	4.00	6.00	6.33	2.00	3.36	0.119	31.50

REV	DRAWN BY-DATE	CHECK BY-DATE	DESCRIPTION
—	KJW5 10/23/17	KJW5 10/23/17	— — — — — — — — — — — —

SOLD TO:
SHIP TO: CITY OF MOUNTAIN VIEW
P.O. #:
AGENT: GREAT BASIN LIGHTING, INC.

JOB: MOD-CALTRANS TYPE 15 CITY OF MOUNTAIN VIEW
TITLE: STATE OF CALIFORNIA

VALMONT INDUSTRIES, INC. RESERVES THE RIGHT TO INSTALL VARIOUS, ENGINEER APPROVED, MATERIAL HANGING ACCOMMODATIONS TO FACILITATE THE MANUFACTURING PROCESS.

valmont
Valley, NE 68064
(402) 359-2201

ORDER NUMBER:
PAGE NUMBER: 1 OF 1
DRAWING NUMBER: CA387843P1
REV

PRELIMINARY PLANS
NOT FOR CONSTRUCTION

CAUTION:
CONTACT U.S.A. (811) (2) FULL WORKING DAYS PRIOR TO STARTING WORK IF EXISTING UTILITIES CONFLICT WITH POLE LOCATION, FIELD ADJUST TO CLEAR EXISTING UTILITIES A MINIMUM OF 3'-0".

TWO DAYS BEFORE YOU DIG
CALL USA TOLL FREE
811
CALL BEFORE YOU DIG

REGISTERED PROFESSIONAL ENGINEER
DAVID SCOT CROWFOOT
E11965
EXP. 9/30/19
ELECTRICAL
STATE OF CALIFORNIA

REVISIONS

SYMBOL	DATE	DESCRIPTION	APPROVED

GIACALONE
DESIGN SERVICES, INC.
5820 STONERIDGE MALL RD., #345 | PLEASANTON, CA 94588
925.467.1740 | WWW.GIACALONEDESIGN.COM

PUBLIC STREET LIGHTING DETAILS
PROMETHEUS REAL ESTATE GROUP, INC.
VILLA STREET
MOUNTAIN VIEW CALIFORNIA

PROJECT MANAGER: DAVE CROWFOOT
DRAWN BY: D. SHAY
CHECKED BY: DSC
SCALE: AS SHOWN
JOB NUMBER: 16-096
DATE LAST MODIFIED: 06-21-18
SHEET SL2
OF 3 SHEETS

EX. TWO STORY HOUSES

EX. TWO STORY HOUSES

EX. TWO STORY HOUSES

EX. TWO STORY HOUSE

EX. UTILITY POLE W/ST. LIGHT TO REMAIN

PROJECT BOUNDARY (TYP)

PROJECT BOUNDARY (TYP)

VILLA ALLEY

GARAGE ENTRY DOWN

VILLA STREET

**

PROPOSED L.E.D. PUBLIC ST. LIGHT & NEW POLE

POOL

CENTER COURTYARD

FUTURE CITY PARK

CHIQUITA AVENUE

VILLA STREET
6 STORY APARTMENT BUILDING
WITH PODIUM & BASEMENT
LEVEL PARKING GARAGE
(240 RESIDENTIAL UNITS)

PROJECT BOUNDARY (TYP)

PROJECT BOUNDARY (TYP)

PROJECT BOUNDARY (TYP)

EX. THREE STORY APARTMENT COMPLEX

EX. SINGLE STORY HOUSES

EX. UTILITY POLE W/ST. LIGHT TO REMAIN

CALTRAIN RAILROAD

LEGEND

XSL	EXISTING ST. LIGHT CONDUIT
	PROPOSED 2" SCH. 40 PVC CONDUIT
	EXISTING STREET LIGHT SPLICE BOX
	PROPOSED STREET LIGHT
	STREET LIGHT BOX (STATE TYPE 3 1/2)
	EXISTING STREET LIGHT
123456	STREET LIGHT POLE NUMBER

20 0 10 20 40

(IN FEET)
1 INCH = 20 FT.

STREET LIGHT TIE-IN TO EX. SYSTEM NOTES:

1. DE-ENERGIZE CIRCUITS AS REQUIRED, COORDINATE WORK WITH PG&E AND CITY/CALTRANS INSPECTORS (TYPICAL FOR 3 TIE-IN POINTS).
2. RUN NEW CONDUIT AND CONDUCTORS, USING THE SAME TYPE AND SIZE AS EXISTING SYSTEM, TO NEW DECORATIVE STREET LIGHTS TO BE INSTALLED AT 3 SEPARATE TIE-IN LOCATIONS.
3. TIE IN NEW CONDUIT AND CONDUCTORS TO EXISTING EX. CONDUIT AND CONDUCTORS AT EX. STREET LIGHT BOXES AT 3 LOCATIONS SHOWN ON DRAWING, FOR A COMPLETE OPERATING SYSTEM PER PG&E AND CALTRANS AND OR CITY .

CAUTION:
CONTACT U.S.A. (811) (2) FULL WORKING DAYS PRIOR TO STARTING WORK IF EXISTING UTILITIES CONFLICT WITH POLE LOCATION, FIELD ADJUST TO CLEAR EXISTING UTILITIES A MINIMUM OF 3'-0".

NOTE:
CONDUIT SHOWN SCHEMATICALLY. REFER TO JOINT TRENCH COMPOSITE PLAN FOR EXACT TRENCH AND BOX LOCATIONS.

PRELIMINARY PLANS NOT FOR CONSTRUCTION

TWO DAYS BEFORE YOU DIG
CALL USA TOLL FREE
811
CALL BEFORE YOU DIG

REGISTERED PROFESSIONAL ENGINEER
DAVID SCOT CROWFOOT
E11965
EXP. 9/30/19
ELECTRICAL
STATE OF CALIFORNIA

REVISIONS			
SYMBOL	DATE	DESCRIPTION	APPROVED

GIACALONE
DESIGN SERVICES, INC.
5820 STONERIDGE MALL RD., #245 | PLEASANTON, CA 94588
925.467.1740 | WWW.GIACALONEDESIGN.COM

PUBLIC STREET LIGHTING SITE PLAN

PROMETHEUS REAL ESTATE GROUP, INC.
VILLA STREET
MOUNTAIN VIEW CALIFORNIA

PROJECT MANAGER:	DAVE CROWFOOT
DRAWN BY:	D. SHAY
CHECKED BY:	DSC
SCALE:	1"=20'
JOB NUMBER:	16-096
DATE LAST MODIFIED:	06-21-18
SHEET	SL3
OF	3 SHEETS

Existing Lights, 30' Mounting Height

Luminaire Schedule								
Symbol	Qty	Label	Arrangement	Description	Arm	Lum. Lumens	Lum. Watts	LLF
	3	EX	SINGLE	BXSPBHT3MEB40K-ULSVNQ6	3	7401	73	0.970
	1	NEW	SINGLE	BXSPBHT3MEB40K-ULSVNQ6	6	7401	73	0.970

Calculation Summary								
Label	CalcType	Meter Type	Units	Avg	Max	Min	Avg/Min	Max/Min
Villa St	Illuminance	Horizontal	Fc	0.62	2.2	0.1	6.20	22.00

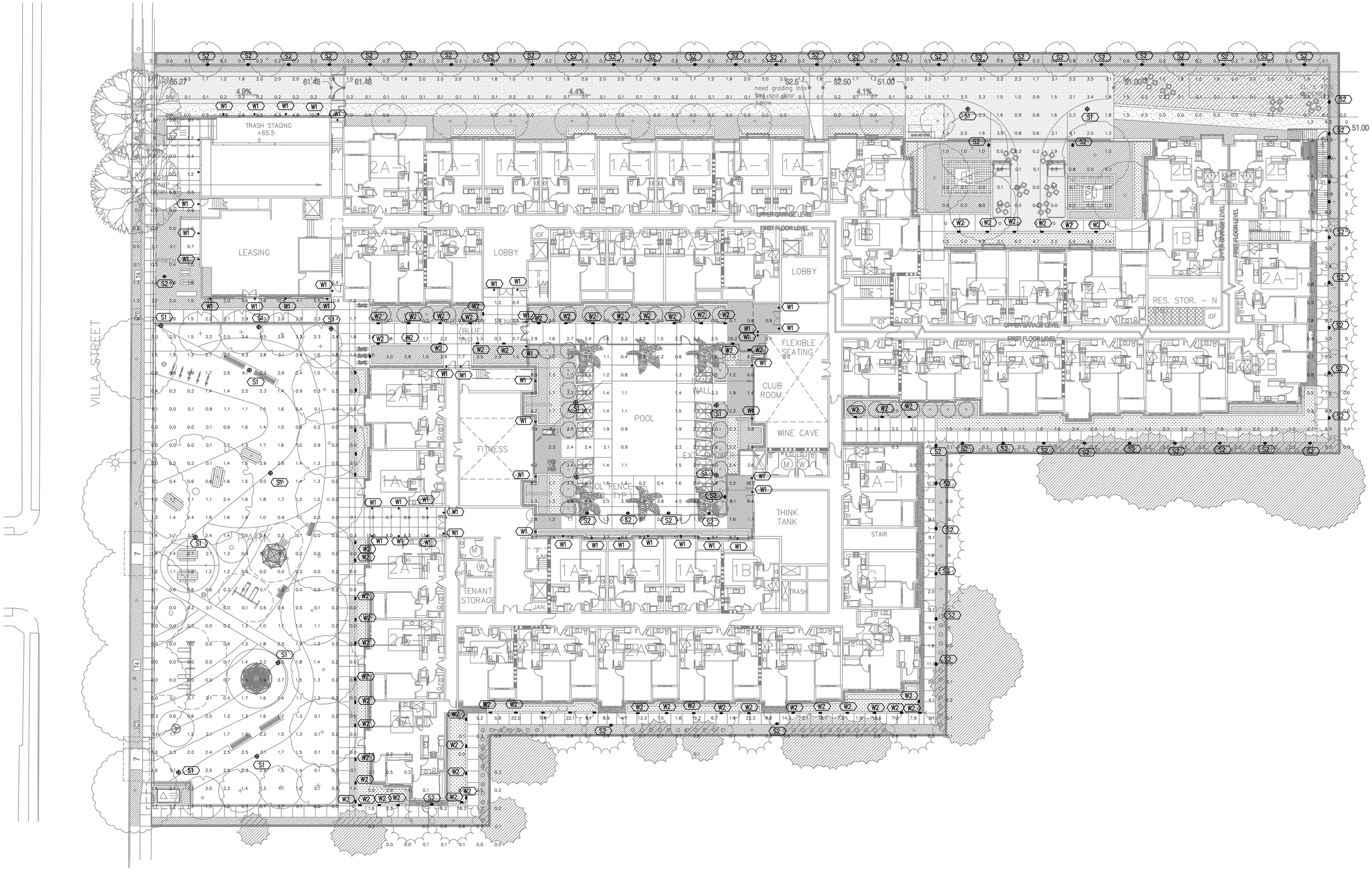
CREE
9201 Washington Ave.
Racine, WI 53406
www.cree.com

Project: Villa St., Mountain View, CA

Date: 01.10.2017

Notes: 3 Existing lights and poles, 1 New

SL4



SEIDEL ARCHITECTS

PROMETHEUS

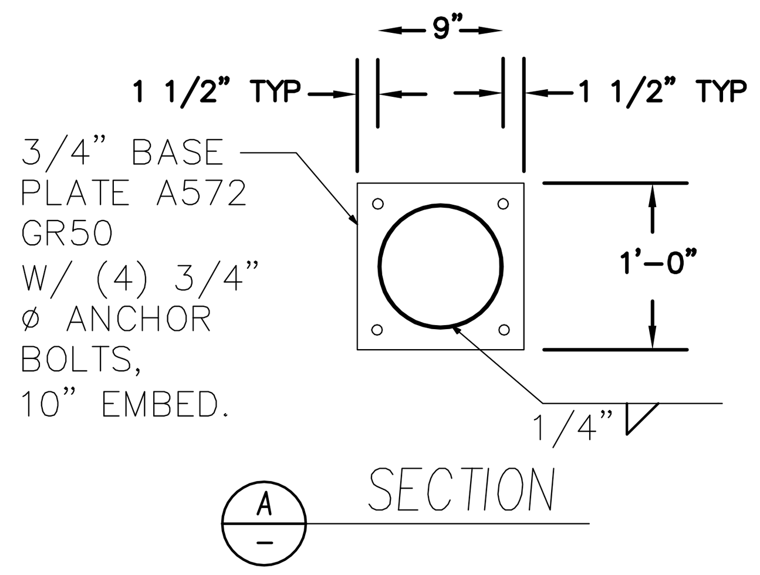
6505 216th ST. SW, Suite 200
Mountlake Terrace, WA 98043
TEL: 425-741-1200
EMERALD CITY ENGINEERS, INC

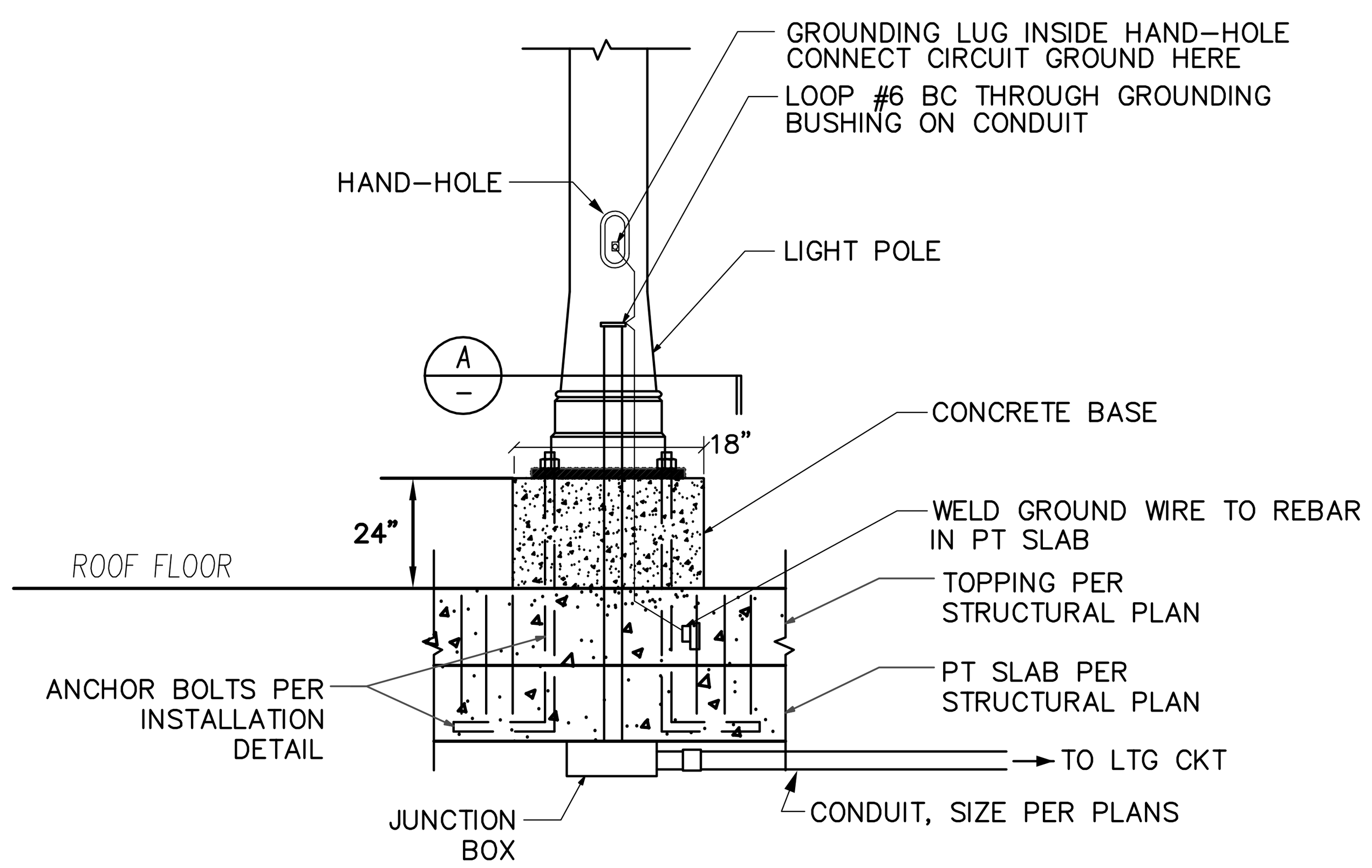
VILLA STREET

MOUNTAIN VIEW, CA

E1.00

SITE PHOTOMETRIC PLAN
05/30/18

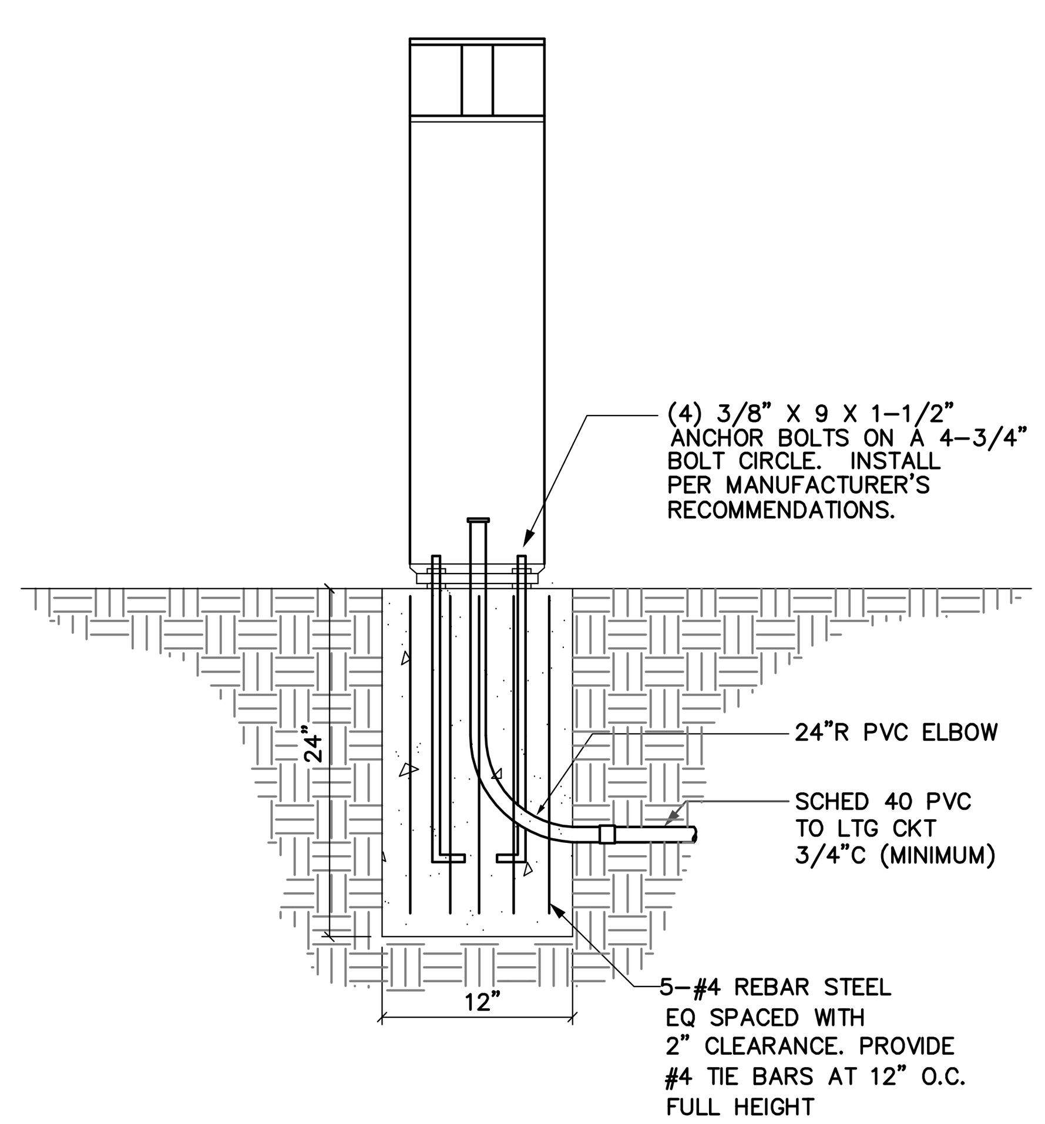




1. LUMINAIRE ANCHOR PLATE TO BE FLUSH WITH TOP OF TOPPING SLAB. REFER TO INSTALLATION GUIDE FOR ANCHOR BOLT SIZE REQUIREMENTS.
2. SEE FIXTURE SCHEDULE FOR POLE HEIGHT.

SITE LIGHTING BASE OVER STRUCTURAL SLAB DETAIL (2)

SCALE: NONE



BOLLARD MOUNTING DETAIL (1)

SCALE: NONE

Quadro H2 LED — selux

Project: ______

Type: ______ Qty: ______

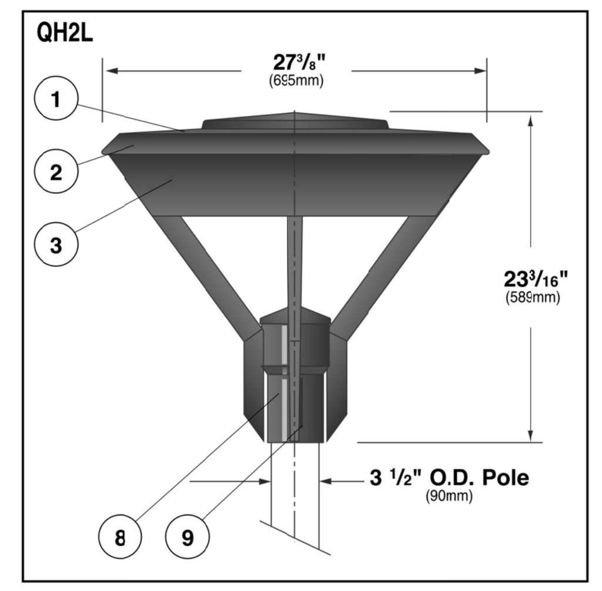
QH2L – ___ – ___ – ___ – ___ – ___ – ___ – ___
Series Mounting Optics Light Engine CCT Finish Voltage Option

___ – ___ – ___ – ___
Pole Series Height Finish Options

Series	Mounting	Optics	Light Engine	CCT	Finish	Voltage	Options
QH2L Quadro H2 LED	1 Single 2 Double W Wall Mount	R1 Type I R2 Type II R3 Type III R4 Type IV R5R Type V (Round) R5S Type V (Square)	5G350 Nominal 33W 5G530 Nominal 48W 5G700 Nominal 64W 5G105 Nominal 97W 5G140 Nominal 126W	30 3000K 40 4000K	WH White BK Black BZ Bronze SV Silver SP Specify Premium Color	UNV 347 480 UNV= 120-277V	HS[3] House Side Shield DM[1] Dimming (0-10V) PCT Photocell Tenon HL[2] Hi-Lo Switching REC GFCI Recepticle Motion Sensor w/ Optional Photocell (Meets Title 24 requirements) *See pole spec sheet for order code

[1]DM or HL only. Cannot be combined. [2]120V, 240V, 277V only [3]Type I, II, III, & IV Only

QH2L



1. Fixture Cover - Formed low-copper aluminum cover hinges open for easy access to LED light engine.

2. Gasketing - Continuous molded gasket provides weather-proofing, dust and insect control at all luminaire connections.

3. Housing - Die-cast and spun low-copper aluminum components with stainless steel fasteners.

4. LED Array - High Flux LEDs mounted to metal core PCB and attached to external heat sink for maximum LED performance and life. CCT tolerance within a 3 step bin and provided with a minimum CRI of 80. LED light engine has a reported lumen maintenance of 98% at 50,000 hours. L70 calculated greater than 100,000 hours.

5. LED Optics - (not shown) Technical Optics (R1, R2, R3, R4, R5S and R5R) use Selux signature light pattern acrylic lens holder to secure proprietary silicone optics. Internal micro house side shield available for distributions types I, II, III & IV.

6. LED Driver - (not shown) LEDs are driven by RoHS compliant constant current programmable LED driver. Driver includes 0-10V dimming to 10%, meets the requirements of IP66. Driver assembly located inside head and accessible through the opening fixture cover.

7. Surge Protection - (Not shown) 3-Pole Surge protection device safeguards electrical components from indirect lighting strikes and surges up to (20kA standard). RoHS compliant.

8. Fixture Frame - Four cast aluminum arms attach to pole fitter with recessed stainless steel Allen head screws

9. Pole Fitter - Cast aluminum fitter secures to pole with two stainless steel Allen head set screws. For 3½" (90mm) O.D. pole.

Exterior Luminaire Finish - Selux utilizes a high quality Polyester Powder Coating. All Selux luminaires and poles are finished in our Tiger Drylac certified facility and undergo a five stage intensive pretreatment process where product is thoroughly cleaned, phosphated and sealed. Selux powder coated products provide excellent salt and humidity resistance as well as ultra violet resistance for color retention. All products are tested in accordance with test specifications for coatings from ASTM and PCI.

Standard exterior colors are White (WH), Black (BK), Bronze (BZ) and Silver (SV). Selux premium colors (SP) are available, please specify from your Selux color selection guide.

5 Year Limited LED Luminaire Warranty - Selux offers a 5 Year Limited Warranty to the original purchaser that the Quadro H2 LED luminaire shall be free from defects in material and workmanship for up to five (5) years from date of shipment. This limited warranty covers the fixture, LED driver and LED light engine when installed and operated according to Selux instructions. Fixture suitable for ambient temperature of 40° C (104° F). For details and exclusions, see "Selux Terms and Condition of Sale."

Listings and Ratings: Tested to IESNA LM-79-08 and LM-80 test standards at 25°C ambient temperature. Rated for wet location.

Selux Corp. ©2017
TEL (845) 834-1400
FAX (845) 834-1401
www.selux.us
QH2L-0517-01 (ss-v1.89)

NRTL Listed (i.e. UL, CSA)

Union Made Affiliated with IBEW Local 363

In a continuing effort to offer the best product possible, we reserve the right to change, without notice, specifications or materials that in our opinion will not alter the function of the product. Specification sheets found at www.selux.us are the most recent versions and supercede all other printed or electronic versions.

Bollards for light directed downward

Post construction: One piece extruded aluminum with a one piece die-cast aluminum top housing and a base internally welded into an assembly. Die castings are marine grade, copper free (≤ 0.3% copper content) A360.0 aluminum alloy.

Lamp enclosure: One piece die-cast aluminum top housing removable for relamping, secured by two captive stainless steel screws threaded into stainless steel inserts. Clear tempered safety glass. Reflector made from pure anodized aluminum. Fully gasketed using a molded silicone high temperature gasket. Fully shielded to comply with LEED Zones 1 and higher

Electrical: 13W LED luminaire, 15.3 total system watts, -25°C start temperature. Integral 120V through 277V electronic LED driver, 0-10V dimming. The LED and driver are mounted on a removable plate for easy replacement. Standard LED color temperature is 3000K with a >80 CRI. Available in 4000K (>80 CRI); add suffix K4 to order.

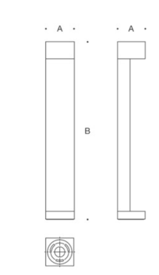
Finish: All BEGA standard finishes are polyester powder coat with minimum 3 mil thickness. Available in four standard BEGA colors: Black (BLK); White (WHT); Bronze (BRZ); Silver (SLV). To specify, add appropriate suffix to catalog number. Custom colors supplied on special order.

Anchor base: Heavy cast aluminum, slotted for precise alignment. Mounts to BEGA 79 817 anchorage kit. Bollards are secured to the post with one (1) stainless steel set screw.

UL listed for US and Canadian Standards, suitable for wet locations. Protection class: IP65.

Luminaire Lumens: 729
Tested in accordance with LM-79-08

Type:
BEGA Product:
Project:
Voltage:
Color:
Options:
Modified:



	Lamp	A	B	C	Anchorage
88 659	13 W LED	6⅝	39⅜	6⅝	79 817

BEGA-US 1000 BEGA Way, Carpinteria, CA 93013 (805) 684-0533 FAX (805) 566-9474 www.bega-us.com
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EL CAPITAN SERIES™ EC

Adjust-e-Lume® (BKSSL®) MR16 Halogen

MATERIAL* ALU BR SS

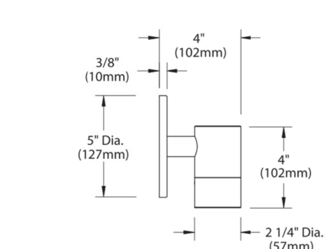
FOR USE WITH Power Supplies Options

"For the Palm Springs Aerial Tramway we wanted to make sure we could provide a fixture that could provide the perfect ambient light and have a unique style, as always of course B-K Lighting had the perfect fixture...El Capitan Series™."

Fernando Rodriquez, MRC Engineering Inc., BKU Spring 2013

B-K LIGHTING | ARCHITECTURAL SURFACE

Shown with 'C' cap in Brown Patina Powder (BPP) finish



'A/D' Cap 'B/E' Cap 'C' Cap 'F' Cap

230 B-K LIGHTING Quality to Last a Lifetime™ www.bklighting.com

*El Capitan Series™ with MR16 Halogen source is only available in aluminum and brass. See page 359 for Catalog ordering information.

Recessed wall luminaires with directed light

Housing: Constructed of die-cast and aluminum with integral wiring compartment. Mounting tabs provided. Die castings are marine grade, copper free (≤ 0.3% copper content) A360.0 aluminum alloy.

Enclosure: One piece die-cast aluminum faceplate. Clear tempered glass; .125" thick, machined flush to faceplate surface. Faceplate is secured by two (2) flush, socket head, stainless steel captive screws threaded into stainless steel inserts in the housing casting. Continuous high temperature, molded silicone rubber gasket for weather tight operation.

Electrical: 8.4W LED luminaire, 11 total system watts, -30°C start temperature. Integral 120V-277V electronic LED driver, 0 -10V dimming.The LED and driver are mounted on a removable plate for easy replacement. Standard LED color temperature is 3000K (available in 4000K; add suffix K4). 3500k color temperature available, consult factory.
Note: Due to the dynamic nature of LED technology, LED luminaire data on this sheet is subject to change at the discretion of BEGA-US. For the most current technical data, please refer to www.bega-us.com.

Options: Optionally available with amber LEDs, dimming not available with this option.

Finish: All BEGA standard finishes are polyester powder coat with minimum 3 mil thickness. Available in four standard BEGA colors: Black (BLK); White (WHT); Bronze (BRZ); Silver (SLV). To specify, add appropriate suffix to catalog number. Custom colors supplied on special order.

UL listed for US and Canadian Standards, suitable for wet locations and for installation within 3 feet of ground. IC rated. Protection class: IP65.

Luminaire Lumens: 480

Type:
BEGA Product:
Project:
Voltage:
Color:
Options:
Modified:

		Lamp	A	B	C
22 384	ADA	8.4 W LED	12½	2¾	2½

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GENERAL LUMINAIRE SCHEDULE

CALLOUT	SYMBOL	LAMP	DESCRIPTION	BALLAST	MOUNTING	MODEL	INPUT VA	VOLTS	NOTE 1
S1	⊕	(1) 35W LED	POST TOP POLE LIGHT, 12' POLE, FULL CUTOFF	ELECTRONIC	POLE WITH 2' CONCRETE BASE	SELUX LIGHTING QH2L 1 R5R 5G350 40K	35	120V 1P 2W	PEDESTRIAN SCALE POLE LIGHT, WITH 2FT CONCRETE BASE ABOVE PODIUM DECK
S2	●	(1) 13W LED 4K	39" TALL BOLLARD, FULL CUTOFF, 4000K	ELECTRONIC	CONCRETE BASE	BEGA 88695	13	120V 1P 2W	PATHWAY LIGHTING
W1	●	(1) 8W LED 3000K	EXTERIOR WALL LIGHT, SMALL CYLINDER, 5" TALL, FULL CUTOFF, 3000K, ALUMINUM FINISH, TRANSFORMER LOCATED IN DEEP BOX	ELECTRONIC	WALL	BK LIGHTING EL CAPITAN EC LED E22 MFL A9 12 11 E, TRe20	8	120V 1P 2W	EXTERIOR WALL. PROVIDE WITH 4" OCTOGON BOX, 1-1/2" DEEP WITH 1-1/2" BOX EXTENSION. LOCATE DRIVER WITHIN DEEP BOX
W2	▬	(1) 11.2W LED	EXTERIOR, SHIELDED, IN-WALL STEP LIGHT, WITH LOUVERS	ELECTRONIC	WALL	BEGA 22 384	11.2	120V 1P 2W	STEP LIGHT

SEIDEL ARCHITECTS

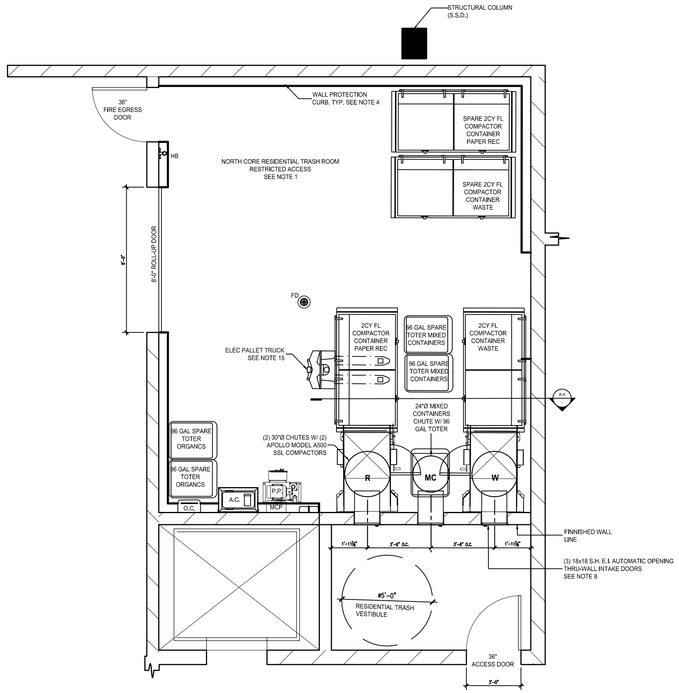
PROMETHEUS

6505 216th ST. SW, Suite 200
Mountlake Terrace, WA 98043
TEL: 425-741-1200
EMERALD CITY ENGINEERS, INC

VILLA STREET
MOUNTAIN VIEW, CA

E1.01
SITE LIGHTING CUTSHEETS
05/30/18

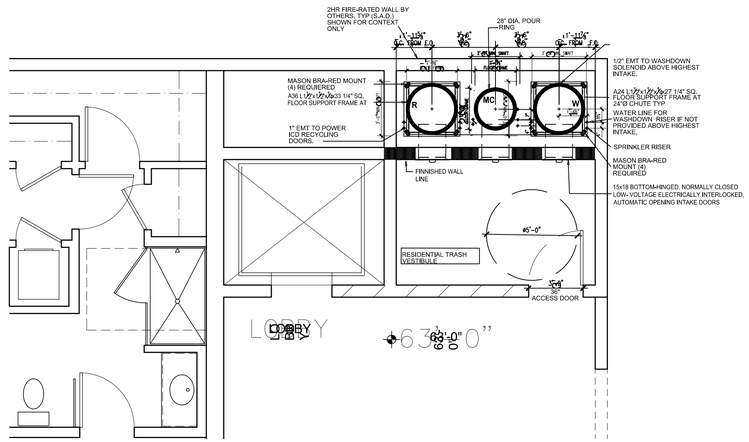
AFRENCH J:\2196-002 VILLA STREET, MOUNTAIN VIEW, CA\DWG\E1-01 SITE LIGHTING CUTSHEETS.DWG 05-24-2018 20:53



NORTH CORE RESIDENTIAL TRASH ROOM PLAN

UPPER GARAGE LEVEL

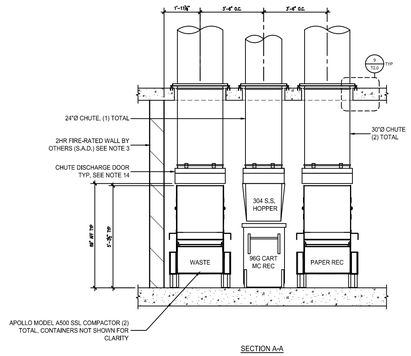
SCALE: ⅛" = 1'-0"



CHUTE INTAKE VESTIBULES

GROUND FLOOR - FIFTH FLOOR

SCALE: ⅛" = 1'-0"



SECTION A-A

SECTIONS

AT NORTH CORE RESIDENTIAL TRASH ROOM

SCALE: ⅜" = 1'-0"

SHEET NOTES:

NORTH CORE RESIDENTIAL TRASH ROOM. UPPER GARAGE LEVEL

1. TRASH ROOM IS 2HR FIRE-RATED - RESTRICTED ACCESS.
2. FLOORS SHALL BE FINISHED WITH ELASTO-DECK 6001 AL-HT DECK COATING WITH MINIMAL SLOPE AND FLOOR DRAIN. LEVEL UNDER COMPACTORS.
3. WALLS SHALL BE FINISHED WITH WASHABLE WATERPROOF SURFACE SUCH AS FRP OR HIGH-GLOSS ENAMEL PAINT 8'-0" AFF.
4. WALL PROTECTION: 10"Hx6"W CONCRETE CURB AT BASE OF WALLS. DO NOT INSTALL ON WALL BEHIND COMPACTORS OR POWER PACKS.
5. 8'-0" WIDE ROLL-UP DOOR FOR TRANSFERRING CONTAINERS. 3'-0" NFPA COMPLIANT DOOR FOR FIRE EGRESS.
6. ROOM SHALL BE MECHANICALLY VENTILATED WITH (1) CFM/SF PER 2016 CBC.
7. (2) 30"Ø CHUTES WITH (2) COMPACTORS. PROVIDE 2CY FL COMPACTOR CONTAINERS FOR WASTE AND PAPER RECYCLING. (1) 24"Ø CHUTE WITH 96 GAL TOTER CART FOR MIXED-CONTAINER RECYCLING. CHUTES SHALL TERMINATE 69" AFF.
8. THRU-WALL INTAKE VESTIBULE: 1HR FIRE-RATED WITH 1HR FIRE-RATED DOOR. 5'-0" MIN REQUIRED PER ADA STANDARDS - RESIDENTIAL ACCESS. PROVIDE (3) 18x18 SIDE-HINGED, ELECTRICALLY INTERLOCKED, AUTOMATIC OPENING INTAKE DOORS. SEE DETAIL 1/72.0.
9. PP: COMPACTOR POWER PACKS SHALL BE FLOOR-MOUNTED AND STACKED VERTICALLY. (2) 5HP 3-PHASE, 208/230/460V, 30A DISCONNECTS 60" AFF.
10. MCP: CHUTE MASTER CONTROL PANEL SHALL BE WALL-MOUNTED 60" AFF. MUST ALLOW LOCK DOWN OF CHUTE INTAKES FOR EXCHANGING CONTAINERS AND WASHING CHUTES.
11. AC: 2HP CHUTE AIR COMPRESSOR SHALL BE WALL-MOUNTED 60" AFF.
12. OC: ODOR CONTROL UNIT SHALL BE WALL-MOUNTED 60" AFF.
13. HB: HOT AND COLD HOSE BIBB SHALL BE WALL-MOUNTED 60" AFF.
14. CHUTE DISCHARGE DOORS: TYPE-A, B-LABEL CONSTRUCTION 90 MINUTE FIRE-RATED, HORIZONTALLY INSULATED SLIDING-STEEL DOOR, HELD OPEN BY 165°F FUSIBLE LINK.
15. PROVIDE ELECTRIC PALLET TRUCK FOR TRANSFERRING CONTAINERS. 4000LB CAPACITY WITH 45.5" TURNING RADIUS.
16. 120V 15A SERVICE OUTLETS REQUIRED FOR ALL EQUIPMENT (U.O.N.).

CHUTE INTAKE VESTIBULE, GROUND FLOOR - FIFTH FLOOR

17. CHUTE INTAKE VESTIBULES SHALL BE 1HR FIRE-RATED WITH 1HR FIRE-RATED DOOR. 5'-0" MIN REQUIRED PER ADA STANDARDS - RESIDENTIAL ACCESS. PROVIDE (3) 15x18 BOTTOM HINGED, NORMALLY CLOSED LOW-VOLTAGE, ELECTRICALLY INTERLOCKED, AUTOMATIC OPENING INTAKE DOORS AT EACH FLOOR. SEE DETAIL 2/72.0. FRONT APPROACH +48" AFS. TYP. MANAGEMENT SHALL PROVIDE SLIM JIM CONTAINER AT EACH INTAKE VESTIBULE FOR ORGANICS DISPOSAL. TRANSFER TO RESIDENTIAL TRASH ROOM AS NEEDED.
18. 2HR FIRE-RATED FACE WALL SHALL NOT BE ERECTED UNTIL CHUTES HAVE BEEN INSTALLED. FOR SOUND PROOFING PURPOSES, DOUBLE STUD-WALLS ARE REQUIRED ADJACENT TO OCCUPIED SPACES. INTERIOR OF SHAFT SHALL BE TAPED TO PREVENT ODOROUS AIR LEAKING INTO OCCUPIED SPACES.
19. PROVIDE ROUND FLOOR OPENINGS AT CONCRETE FLOORS AND SQUARED FLOOR OPENINGS AT WOOD-FRAME CONSTRUCTION. SEE PLAN FOR DIAMETER OF OPENINGS. INSTALL FLOOR SUPPORT FRAME AT EACH FLOOR PENETRATION TO SECURE CHUTE. SEE DETAIL 9/T2.0 FOR ANCHORING. POUR RINGS WILL VARY BASED ON THICKNESS OF FLOOR SLAB - PROVIDED BY MANUFACTURER.

GENERAL NOTES:

1. ANY DESIGNS OR SOLUTIONS SHOWN IN DRAWING, EITHER DIRECT OR IMPLIED, ARE HEREBY CLARIFIED AS EXAMPLES AND SHALL NOT BE CONSIDERED COMPLETE DESIGNS FOR CONSTRUCTION. THESE DRAWINGS ARE INTENDED TO SUPPLEMENT THE SUBMITTAL PACKAGE FROM ARCHITECT.
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3. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO START OF CONSTRUCTION. THE ARCHITECT SHALL BE PROMPTLY NOTIFIED OF ANY INCONSISTENCIES AND/OR DISCREPANCIES.

NOTE: SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS NOT NEEDED FOR PLACEMENT OF TRASH EQUIPMENT.

EQUIPMENT SCHEDULE: NORTH CORE RESIDENTIAL TRASH ROOM	
QTY:	**DESCRIPTION:**
5	TOTAL FLOORS
2	30"Ø GALVANIZED STEEL CHUTES
2	30"Ø CHUTE VENT CAPS
1	24"Ø GALVANIZED STEEL CHUTE
1	24"Ø CHUTE VENT CAP
15	FLOOR SUPPORT FRAMES
60	MASON BRA-RED SOUND ISOLATION PADS
15	15x18 BOTTOM HINGED, NORMALLY CLOSED LOW-VOLTAGE, ELECTRICALLY INTERLOCKED, AUTOMATIC OPENING CHUTE INTAKE DOORS
3	CHUTE DISCHARGE DOORS: TYPE-A, B-LABEL CONSTRUCTION 90 MINUTE FIRE-RATED, HORIZONTALLY INSULATED SLIDING-STEEL DOOR, HELD OPEN BY 165°F FUSIBLE LINK
1	304 STAINLESS STEEL HOPPER
3	18x18 SIDE-HINGED, ELECTRICALLY INTERLOCKED, AUTOMATIC OPENING INTAKE DOORS
5	96 GALLON TOTER CARTS
2	APOLLO MODEL A500 SINGLES-SIDE LATCH COMPACTORS
2	COMPACTOR POWER PACKS: 5HP 3-PHASE, 208/230/460V WITH 30A DISCONNECTS
4	2CY FRONT-LOAD COMPACTOR CONTAINERS
1	CHUTE AIR COMPRESSOR: 2HP MOTOR
1	CHUTE MASTER CONTROL PANEL
1	FLOOR DRAIN
1	ODOR CONTROL UNIT
1	HOT AND COLD HOSE BIBB
1	8'-0" ROLL-UP DOOR
1	3'-0" FIRE EGRESS DOOR
1	BIG JOE D40 ELECTRIC PALLET TRUCK

PROJECTED COLLECTION SCHEDULE: NORTH CORE RESIDENTIAL TRASH ROOM		
SERVICE:	**CONTAINER VOL / TYPE:**	**FREQUENCY:**
WASTE	(3) 2CY FL COMPACTOR CONTAINERS	1x/wk
PAPER RECYCLING	(2) 2CY FL COMPACTOR CONTAINERS	1x/wk
MC RECYCLING	(4) 96G LOOSE TOTER CARTS	2x/wk

AMERICAN TRASH MANAGEMENT
1900 POWELL STREET, SUITE 890
EMERYVILLE, CALIFORNIA 94608
P: 415.292.5400
F: 415.292.5410
www.trashmanage.com

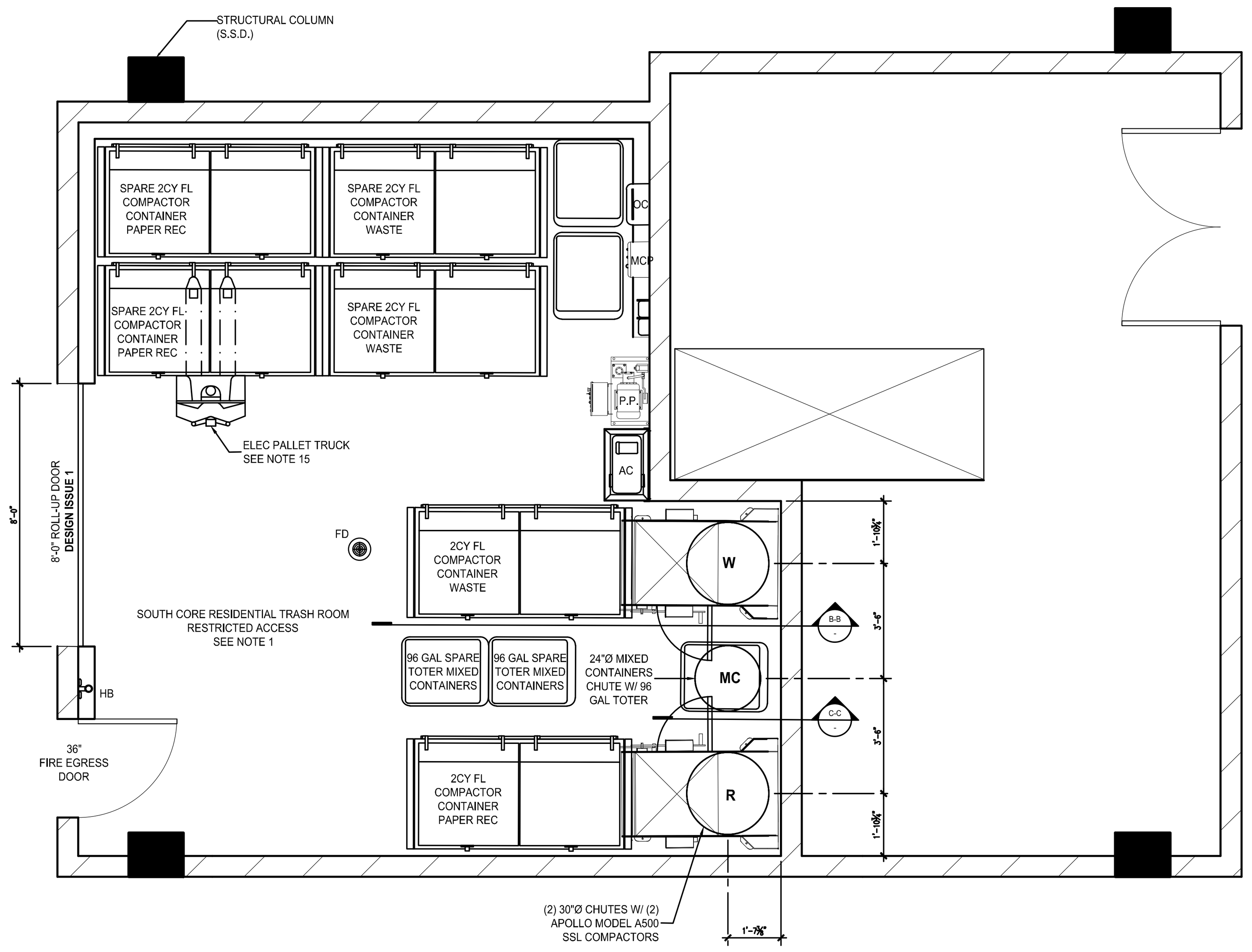
VILLA STREET
MOUNTAIN VIEW, CA

VILLA STREET
MOUNTAIN VIEW, CA

NORTH CORE RESIDENTIAL TRASH ROOM

T1.0

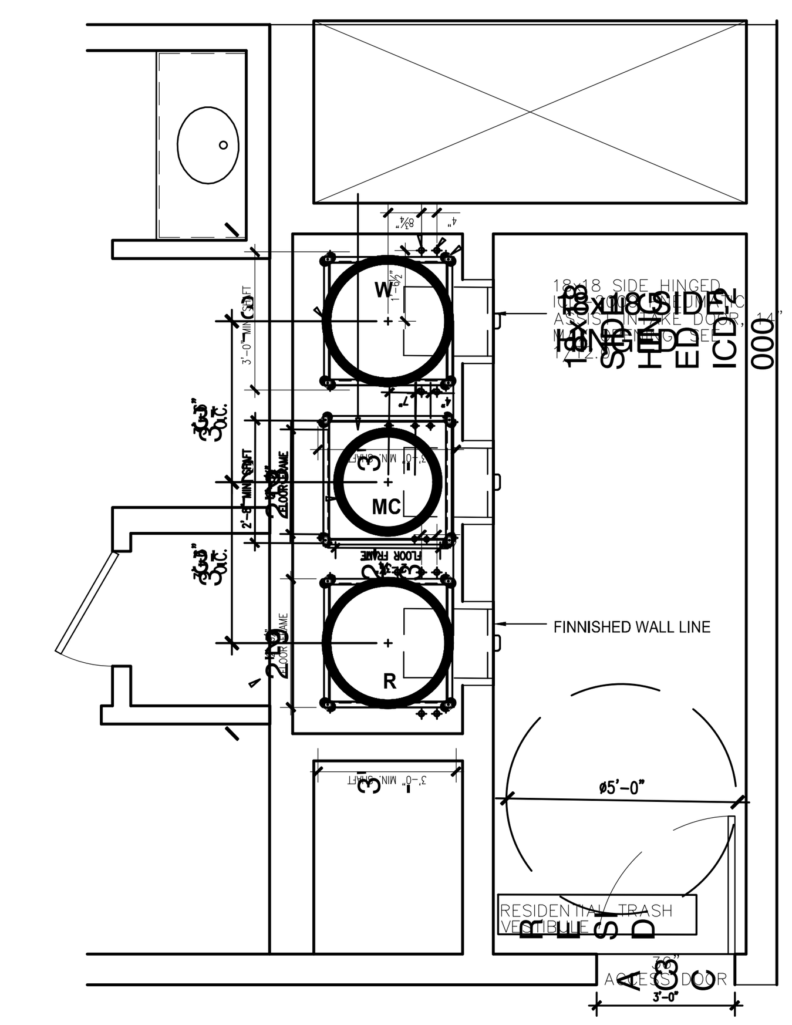
06/12/2018



SOUTH CORE RESIDENTIAL TRASH ROOM PLAN

UPPER GARAGE LEVEL

SCALE: ¼" = 1'-0"



CHUTE INTAKE VESTIBULES

GROUND FLOOR - FIFTH FLOOR

SCALE: ¼" = 1'-0"

SHEET NOTES:

SOUTH CORE RESIDENTIAL TRASH ROOM. UPPER GARAGE LEVEL

1. TRASH ROOM IS 2HR FIRE-RATED - RESTRICTED ACCESS.
2. FLOORS SHALL BE FINISHED WITH ELASTO-DECK 6001 AL-HT DECK COATING WITH MINIMAL SLOPE AND FLOOR DRAIN. LEVEL UNDER COMPACTORS.
3. WALLS SHALL BE FINISHED WITH WASHABLE WATERPROOF SURFACE SUCH AS FRP OR HIGH-GLOSS ENAMEL PAINT 8'-0" AFF.
4. WALL PROTECTION: 10"Hx6"W CONCRETE CURB AT BASE OF WALLS. DO NOT INSTALL ON WALL BEHIND COMPACTORS OR POWER PACKS.
5. 8'-0" WIDE ROLL-UP DOOR FOR TRANSFERRING CONTAINERS. 3'-0" NFPA COMPLIANT DOOR FOR FIRE EGRESS.
6. ROOM SHALL BE MECHANICALLY VENTILATED WITH (1) CFM/SF PER 2016 CBC.
7. (2) 30"Ø CHUTES WITH (2) COMPACTORS. PROVIDE 2CY FL COMPACTOR CONTAINERS FOR WASTE AND PAPER RECYCLING. (1) 24"Ø CHUTE WITH 96 GAL TOTER CART FOR MIXED-CONTAINER RECYCLING. CHUTES SHALL TERMINATE 69" AFF.
8. THRU-WALL INTAKE VESTIBULE: 1HR FIRE-RATED WITH 1HR FIRE-RATED DOOR. 5'-0" MIN REQUIRED PER ADA STANDARDS - RESIDENTIAL ACCESS. PROVIDE (3) 18x18 SIDE-HINGED, ELECTRICALLY INTERLOCKED, AUTOMATIC OPENING INTAKE DOORS. SEE DETAIL 1/T2.0.
9. PP: COMPACTOR POWER PACKS SHALL BE FLOOR-MOUNTED AND STACKED VERTICALLY. (2) 5HP 3-PHASE, 208/230/460V. 30A DISCONNECTS 60" AFF.
10. MCP: CHUTE MASTER CONTROL PANEL SHALL BE WALL-MOUNTED 60" AFF. MUST ALLOW LOCK DOWN OF CHUTE INTAKES FOR EXCHANGING CONTAINERS AND WASHING CHUTES.
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13. HB: HOT AND COLD HOSE BIBB SHALL BE WALL-MOUNTED 60" AFF.
14. CHUTE DISCHARGE DOORS: TYPE-A, B-LABEL CONSTRUCTION 90 MINUTE FIRE-RATED, HORIZONTALLY INSULATED SLIDING-STEEL DOOR, HELD OPEN BY 165°F FUSIBLE LINK.
15. PROVIDE ELECTRIC PALLET TRUCK FOR TRANSFERRING CONTAINERS. 4000LB CAPACITY WITH 45.5" TURNING RADIUS.
16. 120V 15A SERVICE OUTLETS REQUIRED FOR ALL EQUIPMENT (U.O.N.).

CHUTE INTAKE VESTIBULE. GROUND FLOOR - FIFTH FLOOR

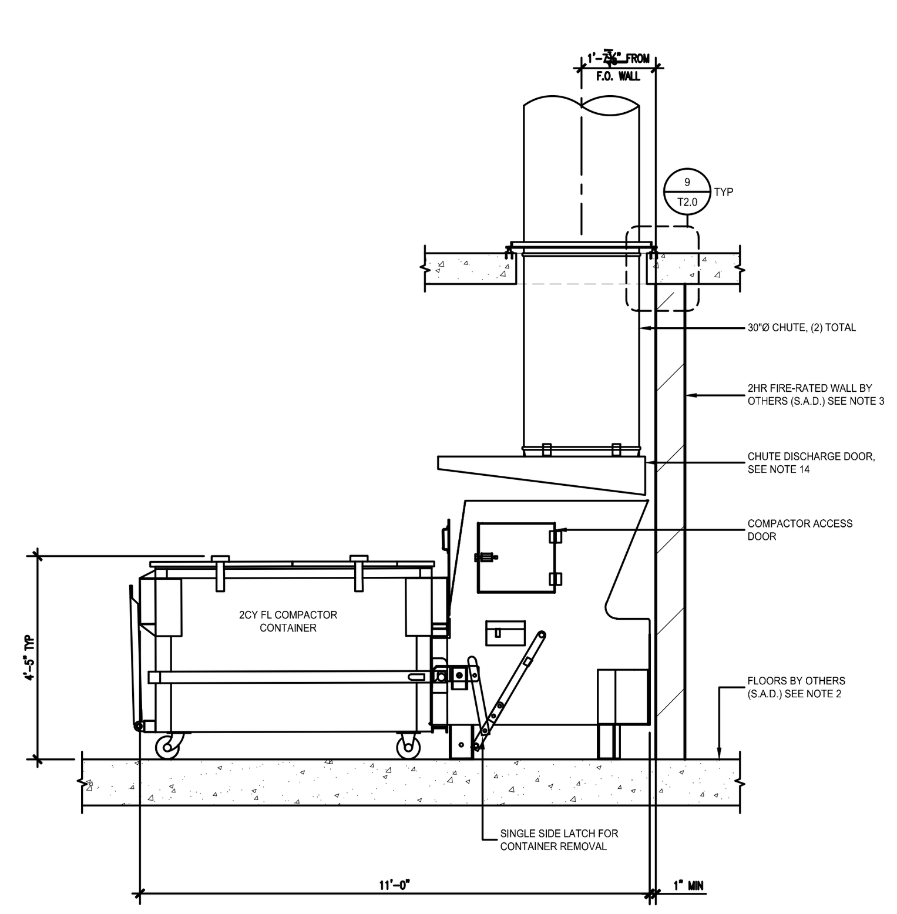
17. CHUTE INTAKE VESTIBULES SHALL BE 1HR FIRE-RATED WITH 1HR FIRE-RATED DOOR. 5'-0" MIN REQUIRED PER ADA STANDARDS - RESIDENTIAL ACCESS. PROVIDE (3) 15x18 BOTTOM HINGED, NORMALLY CLOSED LOW-VOLTAGE, ELECTRICALLY INTERLOCKED, AUTOMATIC OPENING INTAKE DOORS AT EACH FLOOR. SEE DETAIL 2/T2.0. FRONT APPROACH +48" AFS, TYP. MANAGEMENT SHALL PROVIDE SLIM JIM CONTAINER AT EACH INTAKE VESTIBULE FOR ORGANICS DISPOSAL. TRANSFER TO RESIDENTIAL TRASH ROOM AS NEEDED.
18. 2HR FIRE-RATED FACE WALL SHALL NOT BE ERECTED UNTIL CHUTES HAVE BEEN INSTALLED. FOR SOUND PROOFING PURPOSES, DOUBLE STUD-WALLS ARE REQUIRED ADJACENT TO OCCUPIED SPACES. INTERIOR OF SHAFT SHALL BE TAPED TO PREVENT ODOROUS AIR LEAKING INTO OCCUPIED SPACES.
19. PROVIDE ROUND FLOOR OPENINGS AT CONCRETE FLOORS AND SQUARED FLOOR OPENINGS AT WOOD-FRAME CONSTRUCTION. SEE PLAN FOR DIAMETER OF OPENINGS. INSTALL FLOOR SUPPORT FRAME AT EACH FLOOR PENETRATION TO SECURE CHUTE. SEE DETAIL 9/T2.0 FOR ANCHORING. POUR RINGS WILL VARY BASED ON THICKNESS OF FLOOR SLAB - PROVIDED BY MANUFACTURER.

DESIGN NOTES:

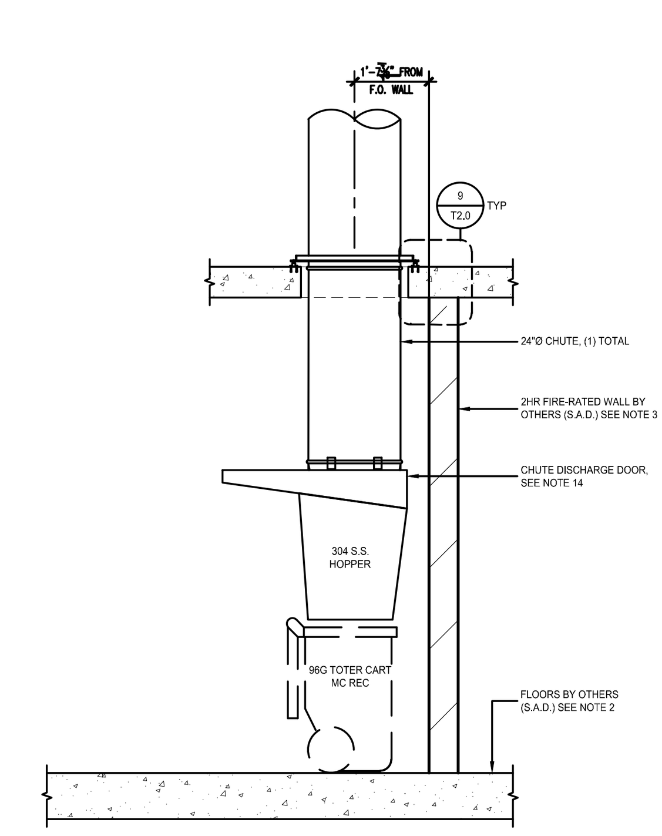
1. **ROLL-UP (MIN 6') AND A FIRE EGRESS DOOR (3' MIN.) RECOMMENDED IN PLACE OF DOUBLE SWING DOOR FOR TRANSFERRING CONTAINERS.**

GENERAL NOTES:

1. ANY DESIGNS OR SOLUTIONS SHOWN IN DRAWING, EITHER DIRECT OR IMPLIED, ARE HEREBY CLARIFIED AS EXAMPLES AND SHALL NOT BE CONSIDERED COMPLETE DESIGNS FOR CONSTRUCTION. THESE DRAWINGS ARE INTENDED TO SUPPLEMENT THE SUBMITTAL PACKAGE FROM ARCHITECT.
2. ANY PARTIAL INFORMATION, OMISSIONS, OR INACCURATE DESCRIPTIONS OF WORK SHOWN IN DRAWINGS, WHICH ARE NECESSARY TO PERFORM THE SCOPE OF WORK, SHALL NOT RELIEVE THE CONTRACTOR FROM COMPLETION OF WORK. ALL WORK SHALL BE PERFORMED TO SATISFY THE MINIMUM REQUIREMENTS OF THE CURRENT APPLICABLE BUILDING CODES.
3. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO START OF CONSTRUCTION. THE ARCHITECT SHALL BE PROMPTLY NOTIFIED OF ANY INCONSISTENCIES AND/OR DISCREPANCIES.



SECTION B-B



SECTION C-C

SECTIONS

AT SOUTH CORE RESIDENTIAL TRASH ROOM

SCALE: ¼" = 1'-0"

NOTE: SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS NOT NEEDED FOR PLACEMENT OF TRASH EQUIPMENT.

EQUIPMENT SCHEDULE: SOUTH CORE RESIDENTIAL TRASH ROOM	
QTY:	**DESCRIPTION:**
5	TOTAL FLOORS
2	30"Ø GALVANIZED STEEL CHUTES
2	30"Ø CHUTE VENT CAPS
1	24"Ø GALVANIZED STEEL CHUTE
1	24"Ø CHUTE VENT CAP
15	FLOOR SUPPORT FRAMES
60	MASON BRA-RED SOUND ISOLATION PADS
15	15x18 BOTTOM HINGED, NORMALLY CLOSED LOW-VOLTAGE, ELECTRICALLY INTERLOCKED, AUTOMATIC OPENING CHUTE INTAKE DOORS
3	CHUTE DISCHARGE DOORS: TYPE-A, B-LABEL CONSTRUCTION 90 MINUTE FIRE-RATED, HORIZONTALLY INSULATED SLIDING-STEEL DOOR, HELD OPEN BY 165°F FUSIBLE LINK
1	304 STAINLESS STEEL HOPPER
3	18x18 SIDE-HINGED, ELECTRICALLY INTERLOCKED, AUTOMATIC OPENING INTAKE DOORS
5	96 GALLON TOTER CARTS
2	APOLLO MODEL A500 SINGLE-SIDE LATCH COMPACTORS
2	COMPACTOR POWER PACKS: 5HP 3-PHASE, 208/230/460V WITH 30A DISCONNECTS
4	2CY FRONT-LOAD COMPACTOR CONTAINERS
1	CHUTE AIR COMPRESSOR: 2HP MOTOR
1	CHUTE MASTER CONTROL PANEL
1	FLOOR DRAIN
1	ODOR CONTROL UNIT
1	HOT AND COLD HOSE BIBB
1	8'-0" ROLL-UP DOOR
1	3'-0" FIRE EGRESS DOOR
1	BIG JOE D40 ELECTRIC PALLET TRUCK

PROJECTED COLLECTION SCHEDULE: SOUTH CORE RESIDENTIAL TRASH ROOM		
SERVICE:	**CONTAINER VOL / TYPE:**	**FREQUENCY:**
WASTE	(3) 2CY FL COMPACTOR CONTAINERS	2x/wk
PAPER RECYCLING	(2) 2CY FL COMPACTOR CONTAINERS	2x/wk
MC RECYCLING	(4) 96G LOOSE TOTER CARTS	1x/wk

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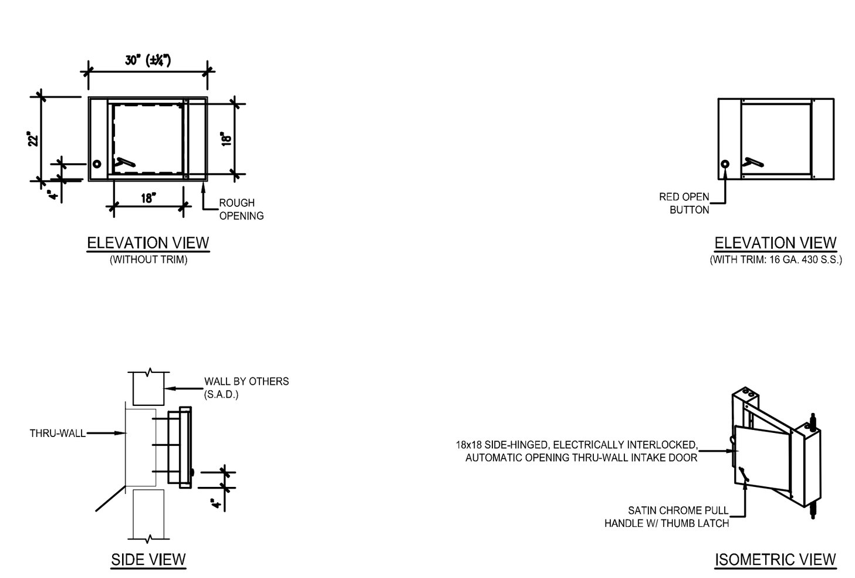
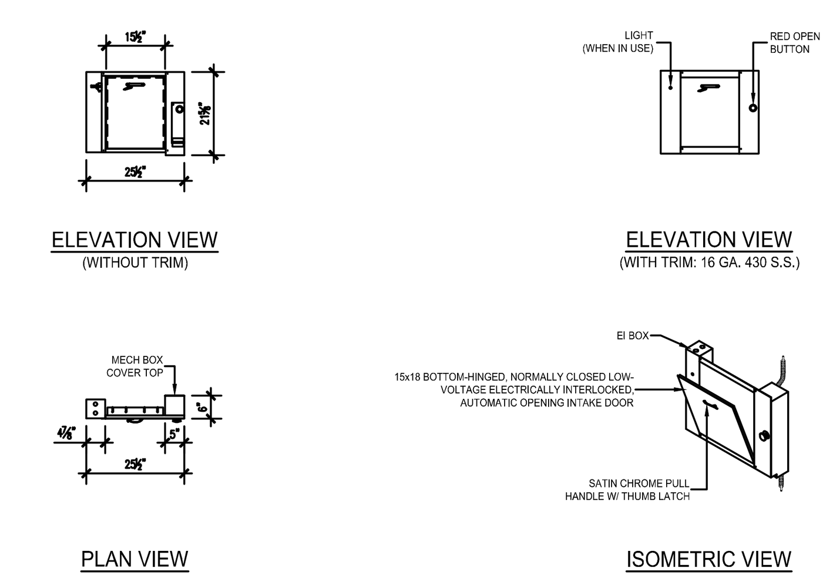
NOTES:
1. INTAKE DOOR AND TRIM SHALL BE REMOVED FOR DOOR MAINTENANCE.
2. SIDE HINGED DOORS ARE SELF-CLOSING, NOISELESS, AND SELF-LATCHING. UL CLASSIFIED 90 MINUTE FIRE-RATED DOOR AND FRAME ASSEMBLY AND A TEMPERATURE RISE OF 250° F MAX IN 30 MINUTES.
3. 2016 CBC - 1138A.4.3 HEIGHT: CONTROLS AND OPERATING MECHANISMS SHALL BE LOCATED NO HIGHER THAN 48 INCHES, AND NO LOWER THAN 15 INCHES ABOVE THE FINISHED FLOOR MEASURED TO THE CENTER OF THE GRIP.
4. 2016 CBC - 1138A.4.4 OPERATION: CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS AND OPERATING MECHANISMS SHALL BE NO GREATER THAN 5 POUNDS.



1 THRU-WALL INTAKE DOOR
UPPER GARAGE LEVEL

SCALE: ¼" = 1'-0"

NOTES:
1. INTAKE DOOR AND TRIM SHALL BE REMOVED FOR DOOR MAINTENANCE.
2. BOTTOM HINGED DOORS ARE SELF-CLOSING, NOISELESS, AND SELF-LATCHING. UL CLASSIFIED 90 MINUTE FIRE-RATED DOOR AND FRAME ASSEMBLY AND A TEMPERATURE RISE OF 250° F MAX IN 30 MINUTES.
3. MAX OPENING FOR INTAKE DOOR IS 14" FROM FACE OF FINISHED WALL.
4. 2016 CBC - 1138A.4.3 HEIGHT: CONTROLS AND OPERATING MECHANISMS SHALL BE LOCATED NO HIGHER THAN 48 INCHES, AND NO LOWER THAN 15 INCHES ABOVE THE FINISHED FLOOR MEASURED TO THE CENTER OF THE GRIP.
5. 2016 CBC - 1138A.4.4 OPERATION: CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS AND OPERATING MECHANISMS SHALL BE NO GREATER THAN 5 POUNDS.



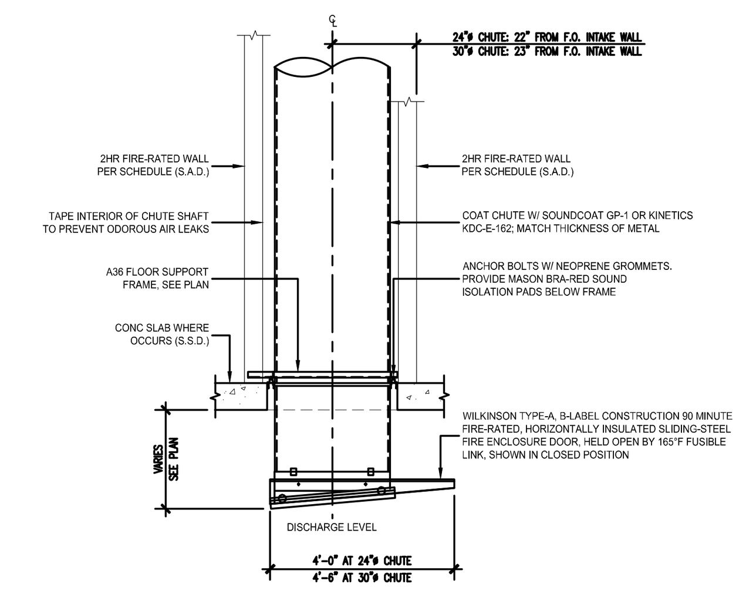
2 CHUTE INTAKE DOOR
LEVELS 2-6

SCALE: ¼" = 1'-0"

SHEET NOTES: 24"Ø AND 30"Ø CHUTE DETAILS
1. CHUTE MATERIAL: GALVANIZED STEEL.
2. 2HR FIRE-RATED WALL ASSEMBLIES ENCASING CHUTE SHAFT. FACE WALL SHALL NOT BE ERECTED UNTIL CHUTES HAVE BEEN INSTALLED.
3. SEE ARCHITECTURAL AND/OR STRUCTURAL DRAWINGS TO VERIFY ALL INFORMATION NOT RELATED TO ATM'S SCOPE OF WORK PER AGREEMENT.
4. POUR RINGS WILL VARY BASED ON THICKNESS OF FLOOR SLAB AND SHALL BE PROVIDED BY MANUFACTURER.

GENERAL NOTES:
1. ANY DESIGNS OR SOLUTIONS SHOWN IN DRAWING, EITHER DIRECT OR IMPLIED, ARE HEREBY CLARIFIED AS EXAMPLES AND SHALL NOT BE CONSIDERED COMPLETE DESIGNS FOR CONSTRUCTION. THESE DRAWINGS ARE INTENDED TO SUPPLEMENT THE SUBMITTAL PACKAGE FROM ARCHITECT.
2. ANY PARTIAL INFORMATION, OMISSIONS, OR INACCURATE DESCRIPTIONS OF WORK SHOWN IN DRAWINGS, WHICH ARE NECESSARY TO PERFORM THE SCOPE OF WORK, SHALL NOT RELIEVE THE CONTRACTOR FROM COMPLETION OF WORK. ALL WORK SHALL BE PERFORMED TO SATISFY THE MINIMUM REQUIREMENTS OF THE CURRENT APPLICABLE BUILDING CODES.
3. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO START OF CONSTRUCTION. THE ARCHITECT SHALL BE PROMPTLY NOTIFIED OF ANY INCONSISTENCIES AND/OR DISCREPANCIES.

NOTES:
1. 2HR FIRE-RATED FACE WALL SHALL NOT BE ERECTED UNTIL CHUTES HAVE BEEN INSTALLED. FOR SOUND PROOFING PURPOSES, DOUBLE STUD-WALLS ARE REQUIRED ADJACENT TO OCCUPIED SPACES. INTERIOR OF SHAFT SHALL BE TAPED TO PREVENT ODOROUS AIR LEAKING INTO OCCUPIED SPACES.
2. INTAKE DOOR NOT SHOWN FOR CLARITY.

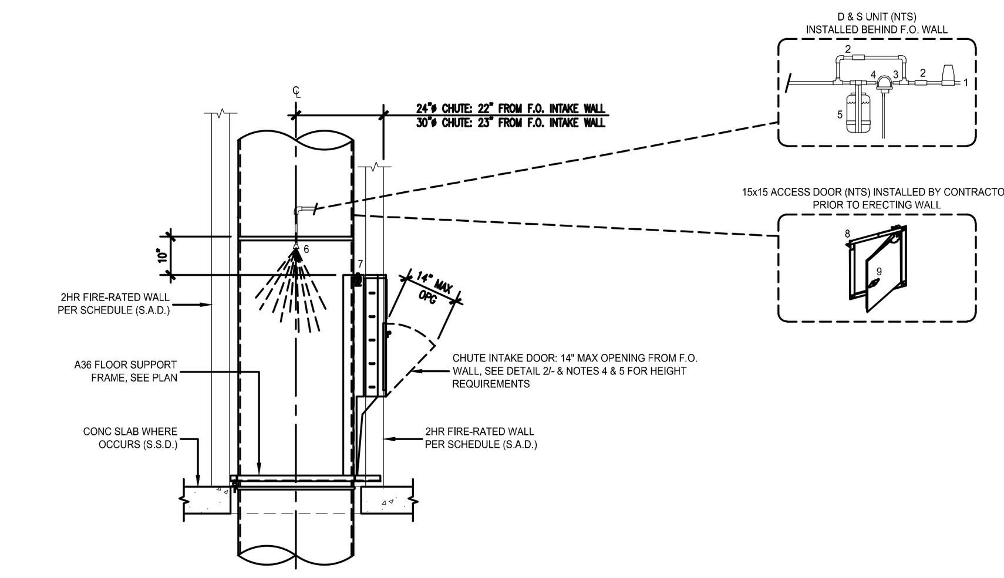


5 CHUTE AIR AND SOUND ISOLATION

SCALE: ¼" = 1'-0"

NOTES:
1. PROVIDE HIGH PRESSURE CHUTE WASHDOWN NOZZLE.
2. FILL SANITATION TANK WITH CONCENTRATED DISINFECTING SOLUTION. THE SYPHON HOSE SHOULD REACH THE BOTTOM OF THE SOLUTION CONTAINER. TO FLUSH WITH CLEAR WATER, TURN HANDLE TO THE ON POSITION. FACTORY SETTING OF THE PROPORTIONING VALVE IS FOR 50-GALLONS PER GALLON OF DISINFECTING SOLUTION.
3. NOTE THAT THE ACCESS DOOR AND D & S UNIT ARE SHOWN OUTSIDE OF CHUTE SHAFT FOR CLARITY. ALL WASHDOWN EQUIPMENT WILL BE INSTALLED WITHIN CHUTE SHAFT, ABOVE THE HIGHEST INTAKE. (1) D & S UNIT PER CHUTE.
4. 2016 CBC - 1138A.4.3 HEIGHT: CONTROLS AND OPERATING MECHANISMS SHALL BE LOCATED NO HIGHER THAN 48 INCHES AND NO LOWER THAN 15 INCHES ABOVE THE FINISHED FLOOR MEASURED TO THE CENTER OF THE GRIP.
5. 2016 CBC - 1138A.4.4 OPERATION: CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS AND OPERATING MECHANISMS SHALL BE NO GREATER THAN 5 POUNDS.
6. SUPPLIED BY VENDOR - INSTALLED BY PLUMBER.

PLUMBING SCHEMATIC LEGEND:
1. ½"Ø DOMESTIC HOT WATER INLET WITH VACUUM BREAKER.
2. QUARTER-TURN GATE VALVE (SHUT-OFF AND BYPASS), (2) TOTAL.
3. PLUMBING DESIGN, MATERIALS, AND INSTALLATION BY OTHERS.
4. 24-VDC SOLENOID VALVE (OPTIONAL), NOT NEEDED FOR MANUAL OPERATION.
5. D & S UNIT: 1-GALLON CONTAINER, MOUNTING BRACKET, AND PROPORTIONAL VALVE AT REMOTE LOCATION.
6. FLUSHING SPRAY HEAD BELOW CHUTE VENT.
7. FIRE SPRINKLER HEAD AT HIGHEST INTAKE, LOWEST INTAKE, AND EVERY OTHER FLOOR BETWEEN.
8. SIDE-HINGED, UL RATED 90 MINUTE B-LABEL ACCESS DOOR.
9. SATIN CHROME PULL-HANDLE.



6 DISINFECTING AND SANITATION UNIT
AT HIGHEST INTAKE

SCALE: ¼" = 1'-0"

NOTES:
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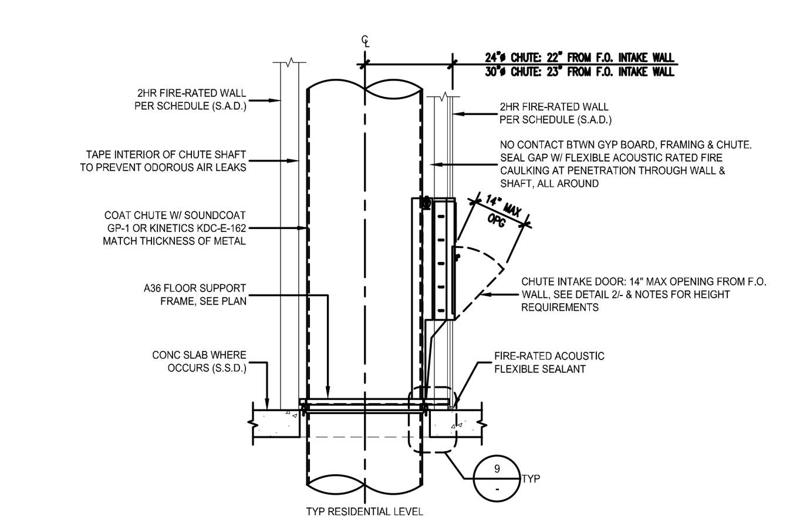
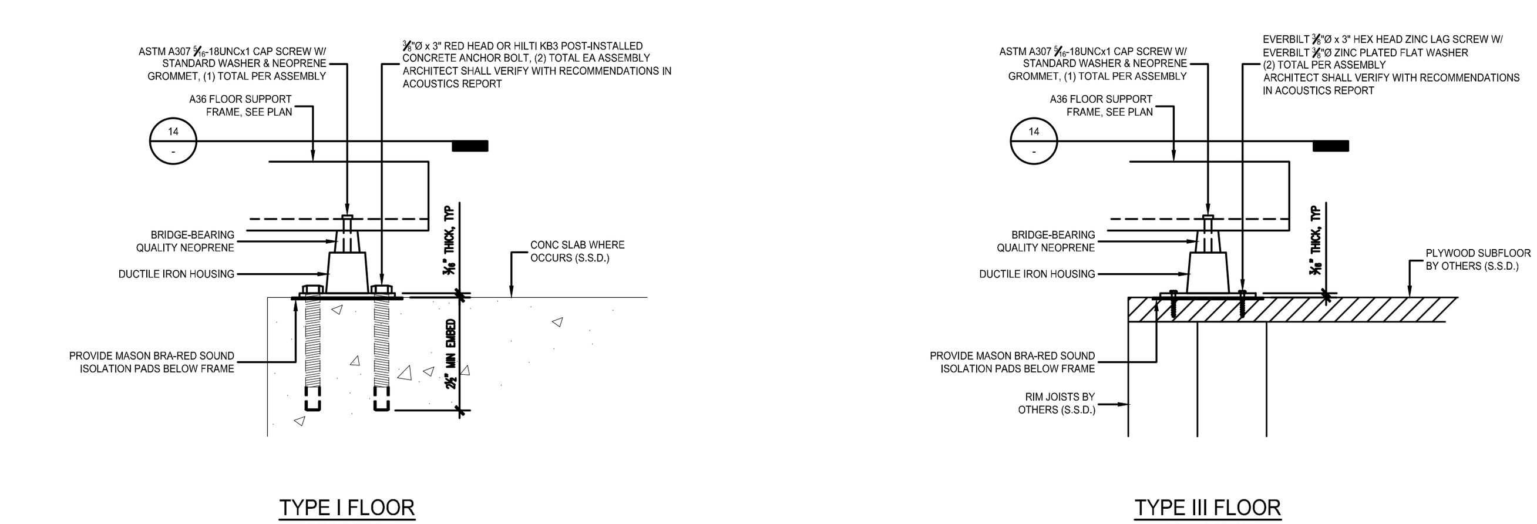


8 CHUTE SHAFT AT INTAKE

SCALE: ¼" = 1'-0"

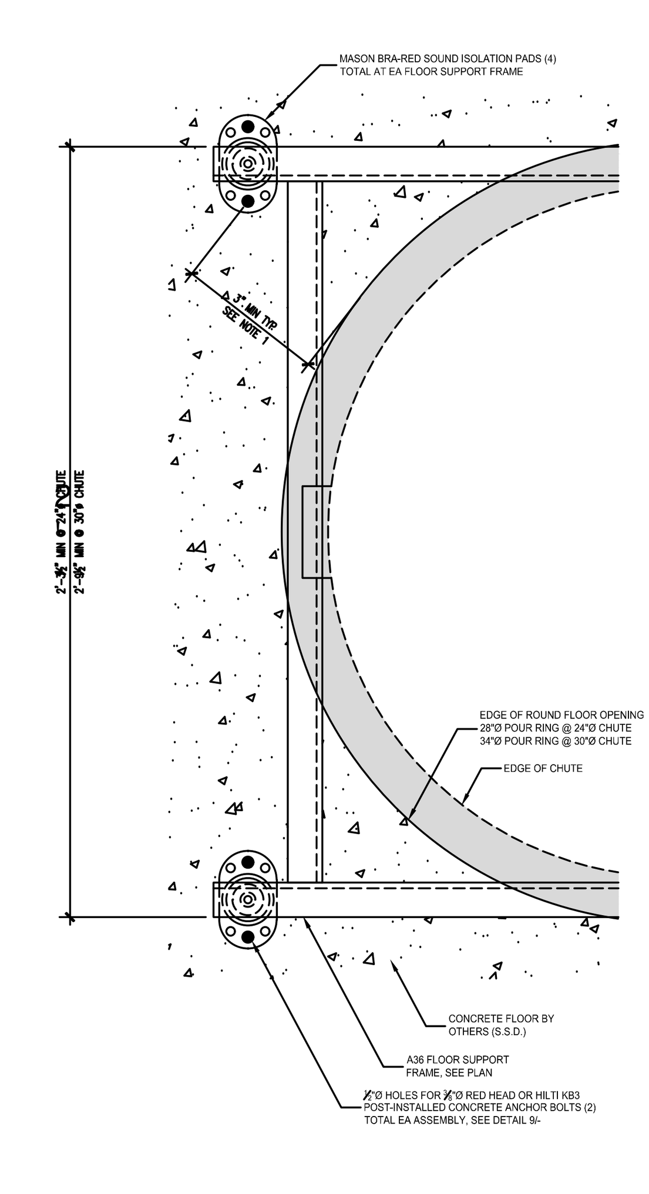
NOTES:
1. REFER TO MANUFACTURER SPECIFICATIONS FOR ALL OTHER INFORMATION NOT LISTED.
2. (4) MASON BRA-RED SOUND ISOLATION PAD ASSEMBLIES PER FLOOR SUPPORT FRAME.



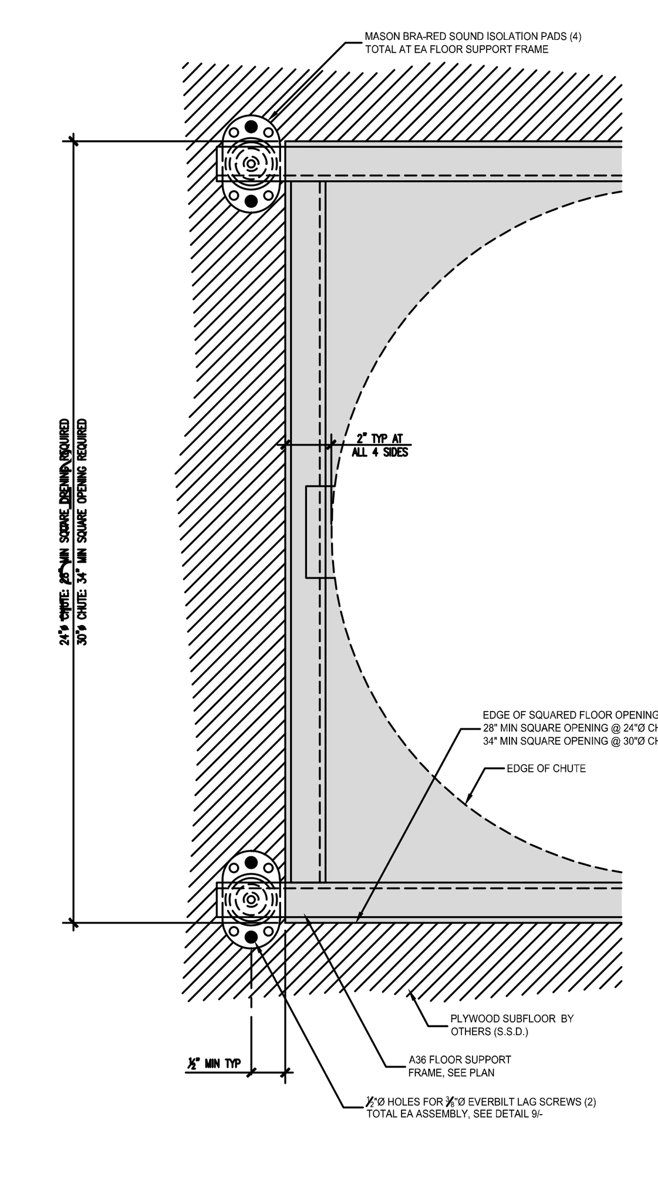
9 FLOOR SUPPORT FRAME ANCHORING

SCALE: 3" = 1'-0"

NOTES:
1. TYPE I FLOOR: TO PREVENT CONCRETE BREAK-OFF, VERIFY MINIMUM DISTANCE WITH STRUCTURAL ENGINEER.
2. ARCHITECT SHALL VERIFY ALL FLOOR SUPPORT FRAME ANCHORING CONNECTIONS WITH RECOMMENDATIONS IN ACOUSTICS REPORT.



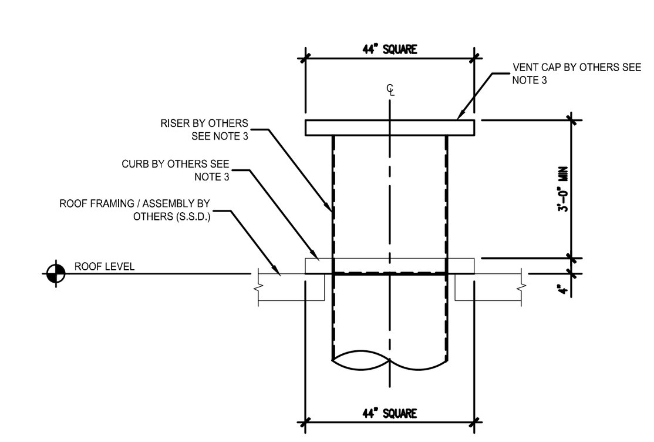
PARTIAL ROUND FLOOR OPENING
TYPE I FLOOR



PARTIAL SQUARED FLOOR OPENING
TYPE III FLOOR

SCALE: 1½" = 1'-0"

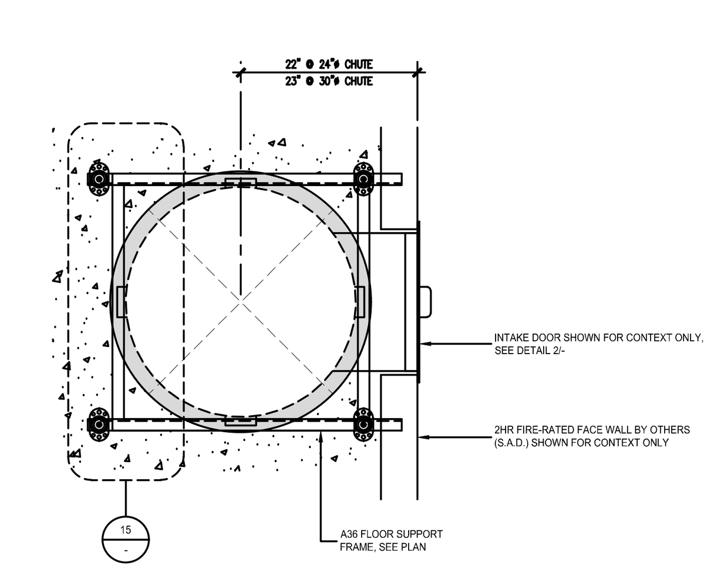
NOTES:
1. ATTACHMENT OF ALL BLOCKING, CURBS, AND OTHER ROOF COMPONENTS SHALL BE DESIGNED AND INSTALLED TO MEET THE MINIMUM REQUIREMENTS OF MANUFACTURER.
2. SEE ARCHITECTURAL AND/OR STRUCTURAL DRAWINGS FOR ALL WORK BY OTHERS.
3. SUPPLIED BY VENDOR - INSTALLED BY ROOFER.



13 CHUTE VENT
AT ROOF LEVEL

SCALE: ¼" = 1'-0"

NOTES:
1. SEE DETAIL 2/- FOR CHUTE INTAKE DOOR INFORMATION.
2. REFER TO MANUFACTURER SPECIFICATIONS FOR ALL OTHER INFORMATION NOT LISTED.
3. SEE DETAIL 9/- FOR SECTION OF BRA-RED MOUNT INSTALLATION.
4. REFER TO CHUTE INTAKE VESTIBULE DRAWINGS FOR ALL OTHER INFORMATION NOT LISTED.



14 FLOOR SUPPORT FRAME ANCHORING
PLAN VIEW

SCALE: ½" = 1'-0"

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VILLA STREET
MOUNTAIN VIEW, CA

CHUTE DETAILS

T3.0

06/21/2018