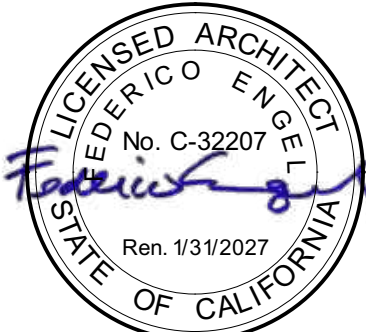


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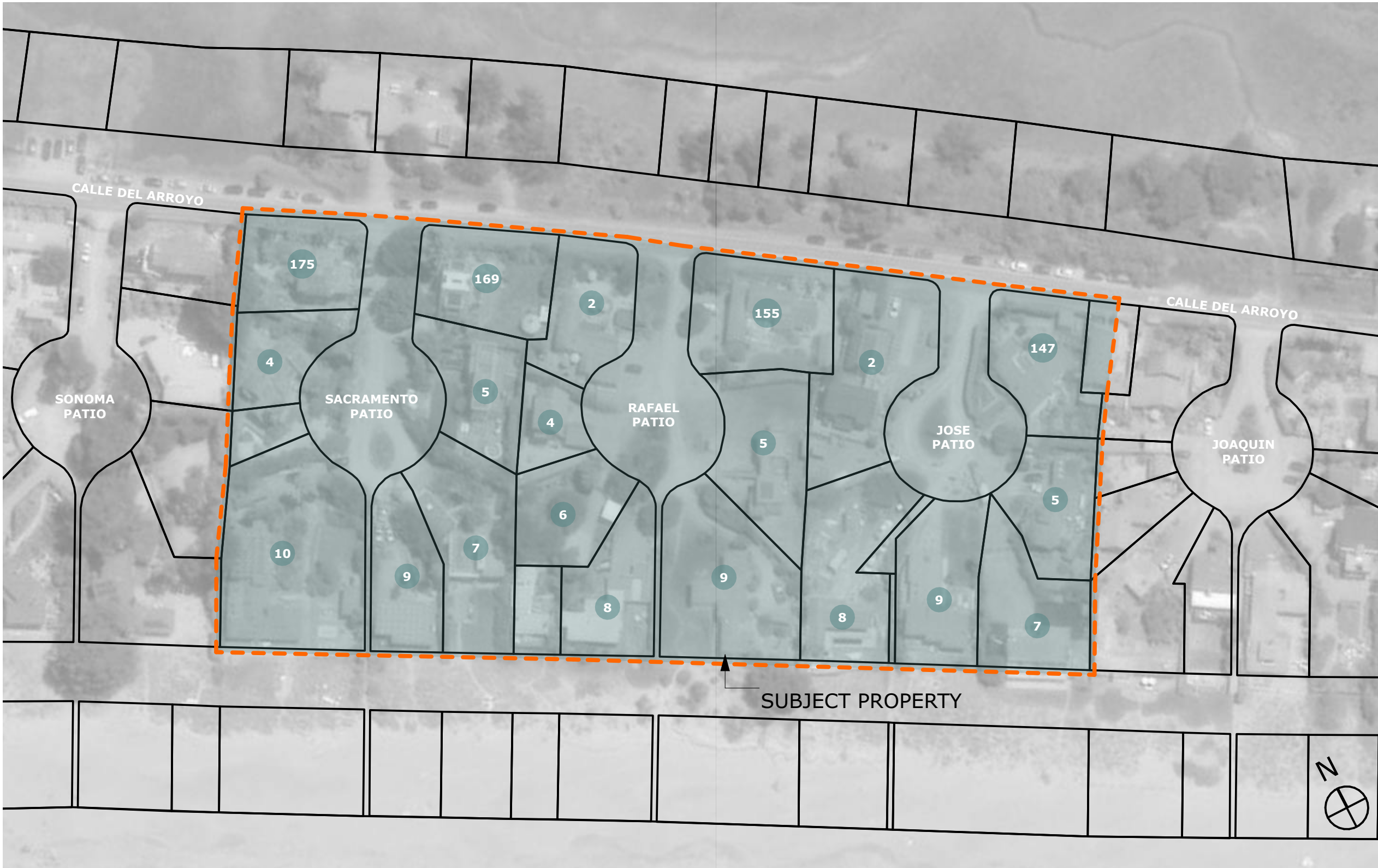
FLOOR AREA
CALCULATIONS

NEIGHBORHOOD FAR STUDY

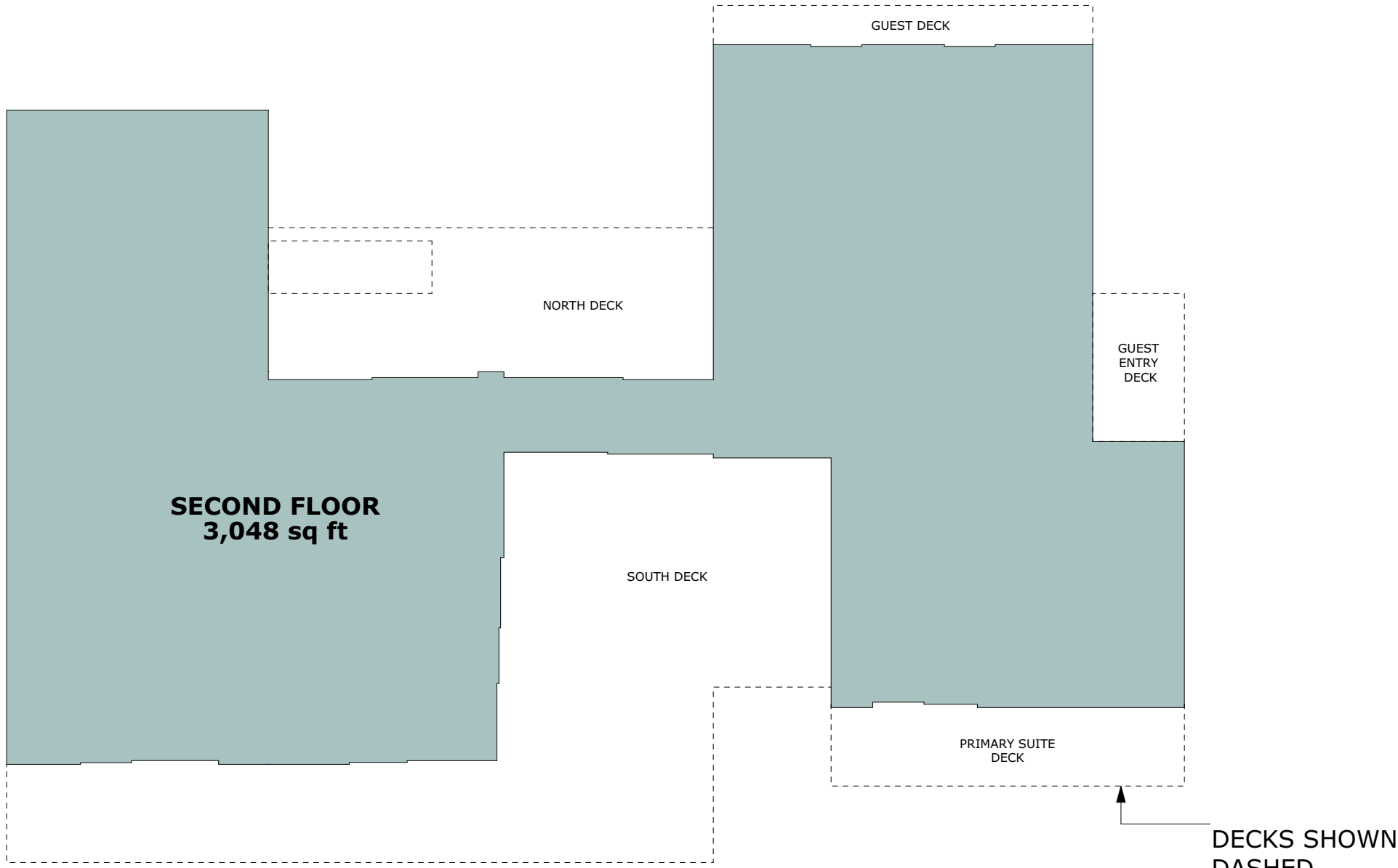
ADDRESS	PARCEL #	TOTAL FLOOR AREA (sqft)	TOTAL LOT AREA (sqft)	FAR (%)	NOTES
RAFAEL PATIO					
9 RAFAEL PATIO	195-065-06	3293	15000	22.0	PROPOSED (NOT INCLUDED IN CALCS)
8 RAFAEL PATIO	195-065-05	1915	8999	21.3	DIRECT NEIGHBOR, OCEANFRONT
6 RAFAEL PATIO	195-064-06	988	3005	32.9	OCEANFRONT
4 RAFAEL PATIO	195-064-03	1060	4791	22.1	
2 RAFAEL PATIO	195-064-02	1206	7710	15.6	
155 CALLE DEL ARROYO	195-065-15	2212	10410	21.2	
5 RAFAEL PATIO	195-065-10	1076	9104	11.8	DIRECT NEIGHBOR
JOSE PATIO					
7 JOSE PATIO	195-102-12	2832	8930	31.7	OCEANFRONT
9 JOSE PATIO	195-102-16	1463	8276	17.7	OCEANFRONT
8 JOSE PATIO	195-065-13	1267	12316	10.3	DIRECT NEIGHBOR, OCEANFRONT
2 JOSE PATIO	195-065-07	2522	11325	22.3	
147 CALLE DEL ARROYO	195-102-15	1208	8822	13.7	
5 JOSE PATIO	195-102-17	1292	8015	16.1	
SACRAMENTO PATIO					
7 SACRAMENTO PATIO	195-064-15	1833	8537	21.5	OCEANFRONT
9 SACRAMENTO PATIO	195-064-13	1620	6926	23.4	OCEANFRONT
10 SACRAMENTO PATIO	195-063-16	2896	18259	15.9	OCEANFRONT
4 SACRAMENTO PATIO	195-063-18	2984	6403	46.6	
175 CALLE DEL ARROYO	195-063-02	1927	8145	23.7	
169 CALLE DEL ARROYO	195-064-10	2026	8973	22.6	
5 SACRAMENTO PATIO	195-064-11	2227	7492	29.7	

MIN FAR	10.3
MAX FAR	46.6
AVG FAR	22.1
AVG OCEANFRONT FAR	21.8
STDEV	8.6

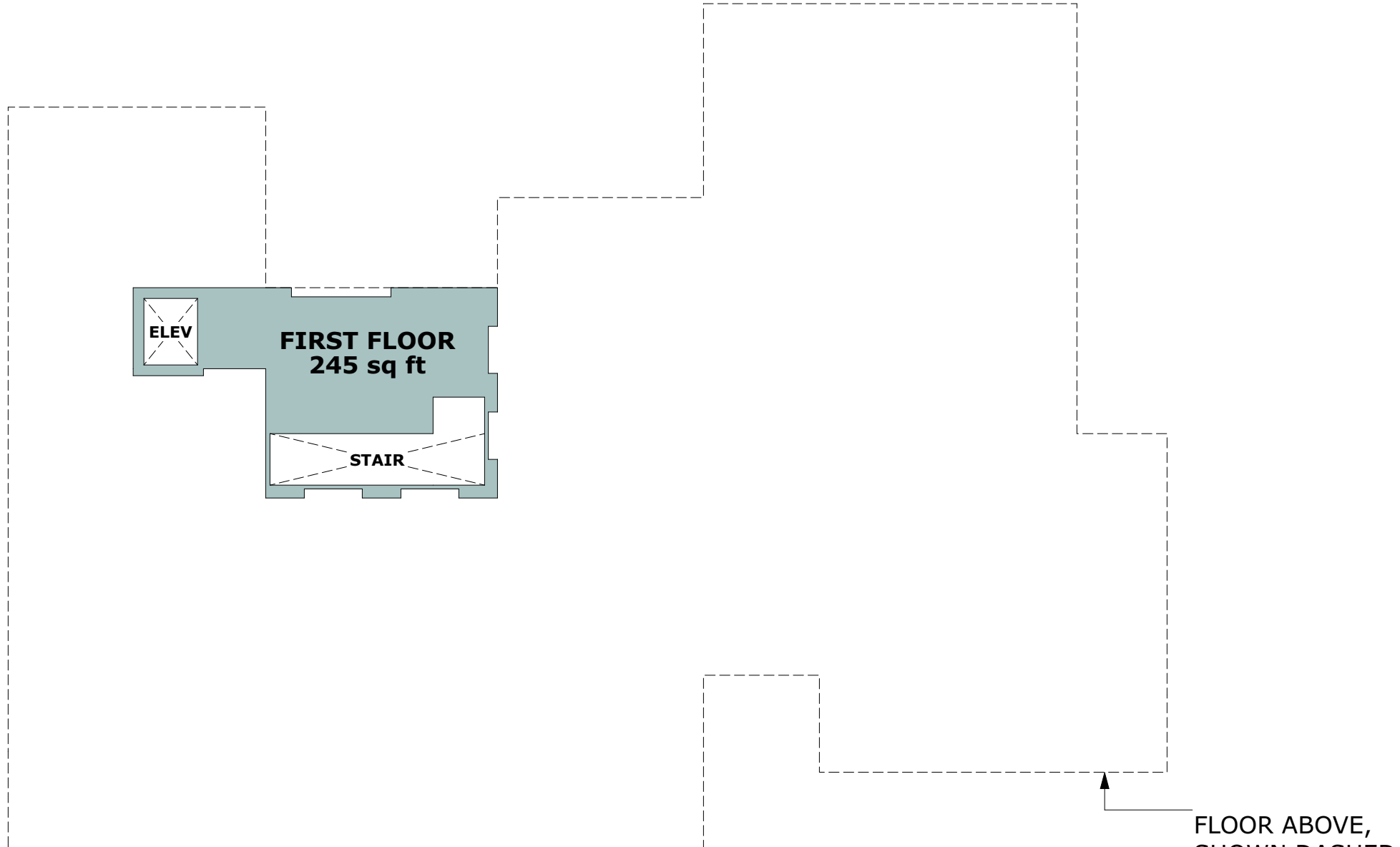
1 NEIGHBORHOOD FAR CALCULATIONS



1 FAR STUDY AREA



SECOND FLOOR AREA DIAGRAM



FIRST FLOOR AREA DIAGRAM

AREA CALCULATIONS:		
ZONE:	AREA (SQ.FT.)	NOTES
GARAGE:	529	
FIRST FLOOR:	245* (C)	540 SQ.FT. EXCLUDED FROM F.A.R. PER MARIN COUNTY M.C., SECTION 22.130.030
SECOND FLOOR:	3,293* (C)	
SOUTH DECK:	954	
NORTH DECK:	341	
GUEST DECK:	88	
GUEST ENTRY DECK:	79	
PRIMARY SUITE DECK:	165	
TOTAL CONDITIONED AREA:	3,293	
TOTAL UNCONDITIONED AREA:	529	
TOTAL DECK AREA:	1,627	
LOT SIZE:	15,000	
F.A.R.:	3,293 (.22)	PER MARIN COUNTY M.C., SECTION 22.02.285I

* (C) - CONDITIONED AREA



7 AERIAL VIEW NORTH



6 AERIAL VIEW SOUTH



5 AERIAL VIEW NORTH



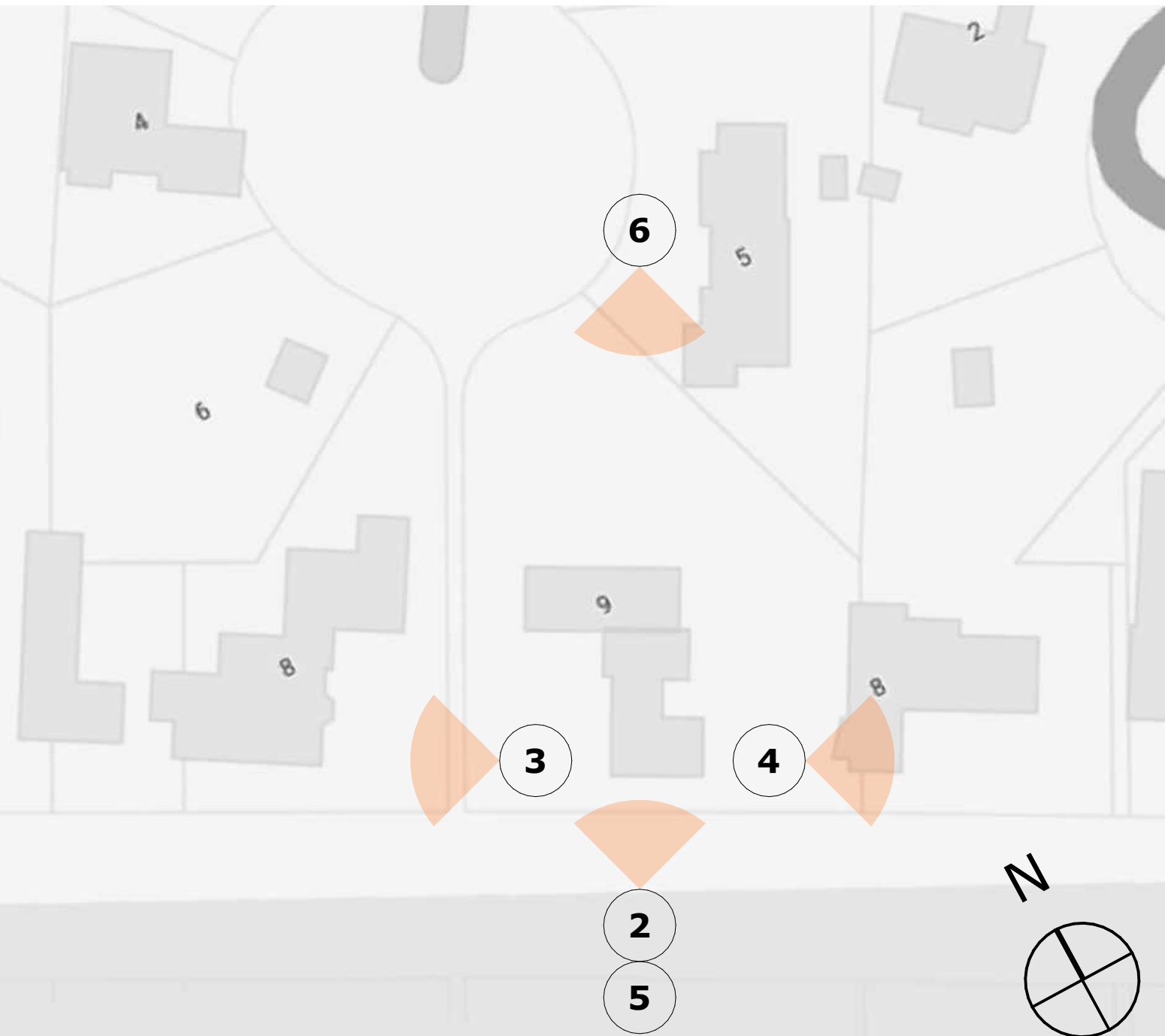
4 VIEW EAST OF ADJACENT NEIGHBOR



3 VIEW WEST OF ADJACENT NEIGHBOR



2 VIEW NORTH OF SUBJECT PROPERTY



1 PHOTO MAP

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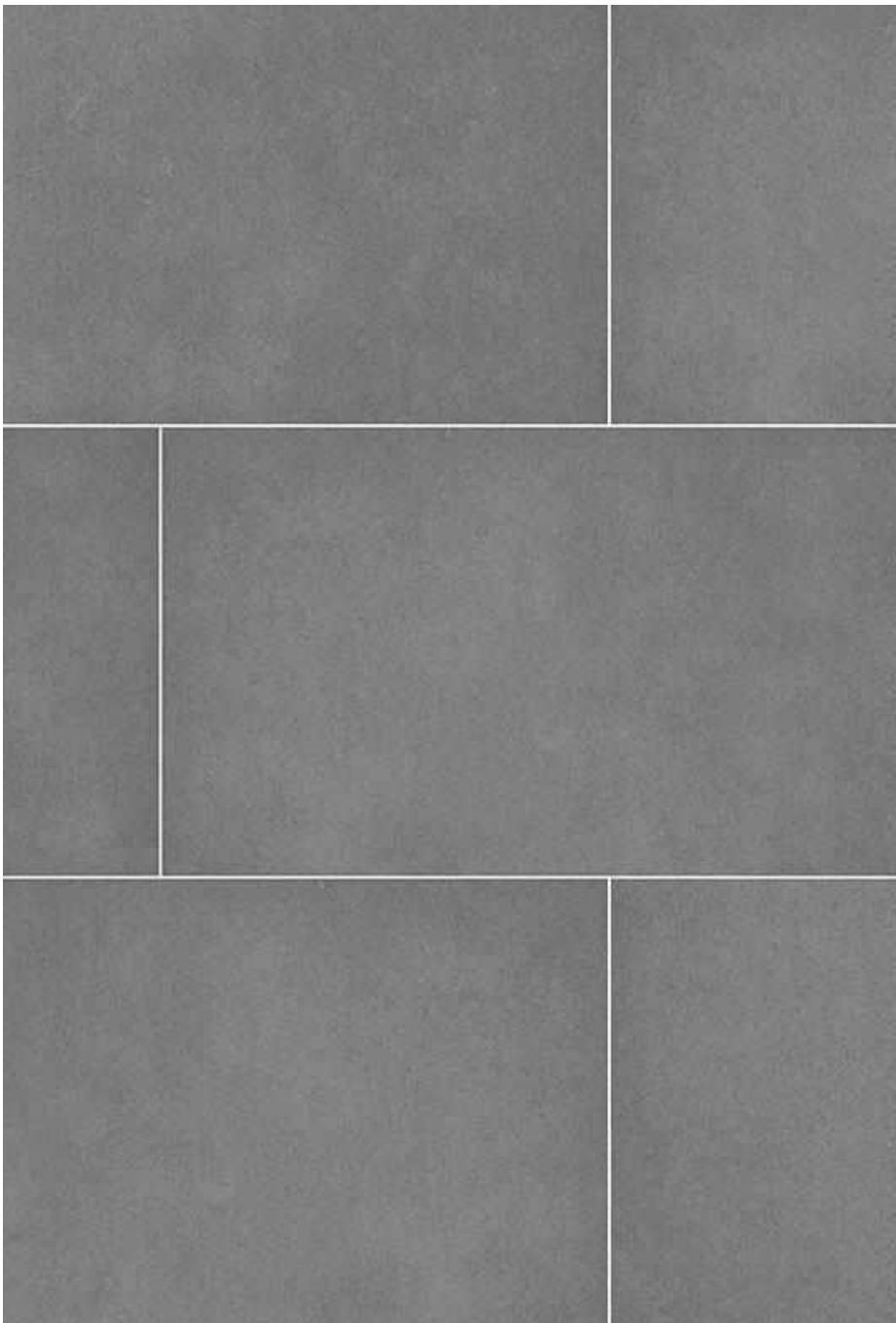
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NEIGHBORHOOD
CONTEXT



F. CLEAR GLAZED GLASS
EXTERIOR DOORS & WINDOWS



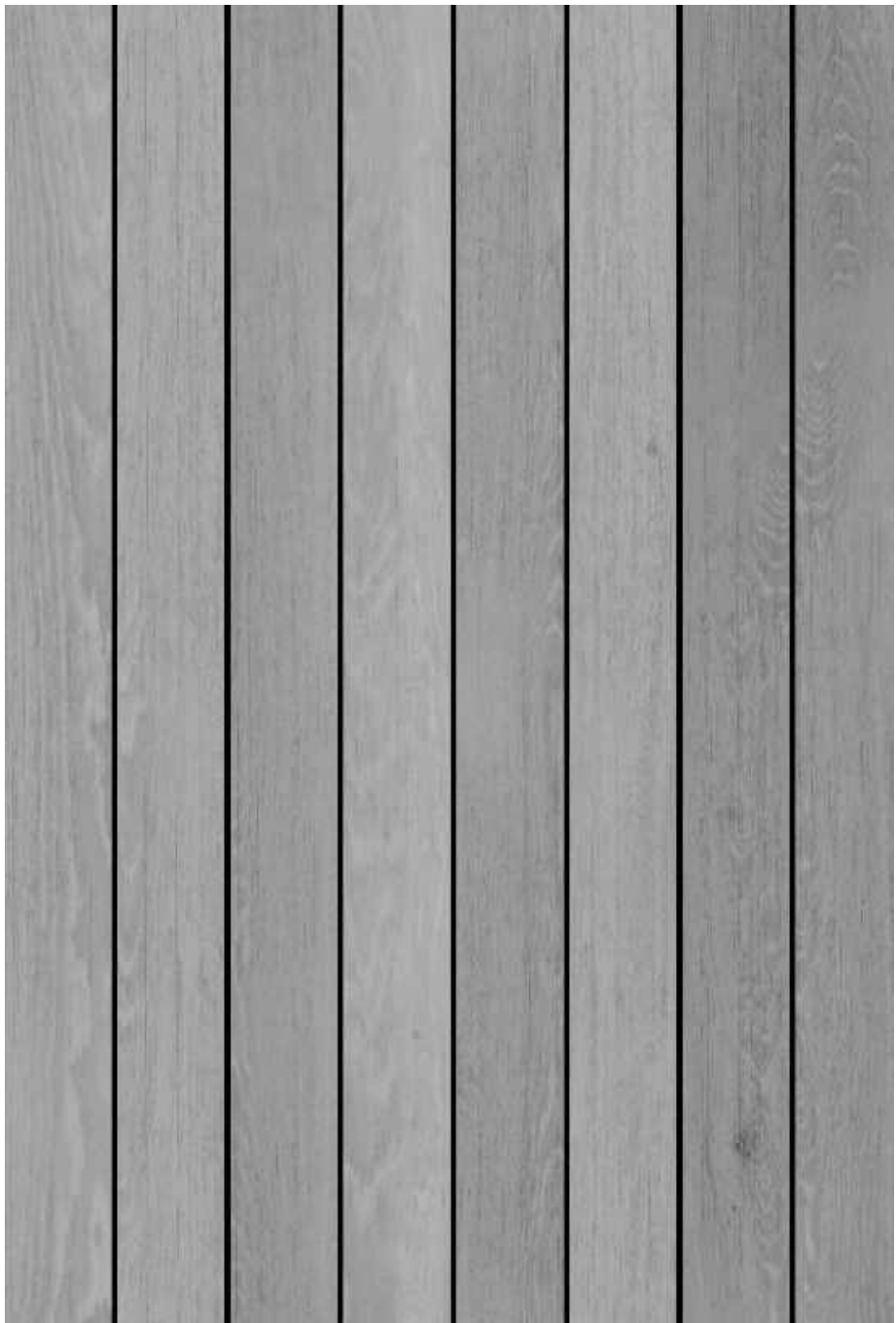
E. NATURAL STONE
SITE PAVING



D. ANODIZED BRONZE FINISH ON
ALUMINUM DOORS, WINDOWS,
TRIM, & RAILINGS



C. BOARD FORM CONCRETE ON
STRUCTURAL AND BREAKAWAY
WALLS



B. WEATHERED WOOD SIDING
GARAGE FACADE



A. NATURAL CEDAR SIDING
FACADE & FENCING



1 PROPOSED FRONT VIEW
NOT TO SCALE



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9 RAFAEL PATIO
9 RAFAEL PATIO, STINSON BEACH, CA 94970

APN: 195-065-06

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PROPOSED
MATERIAL
BOARD



2 PROPOSED REAR VIEW

NOT TO SCALE



1 PROPOSED FRONT VIEW

NOT TO SCALE



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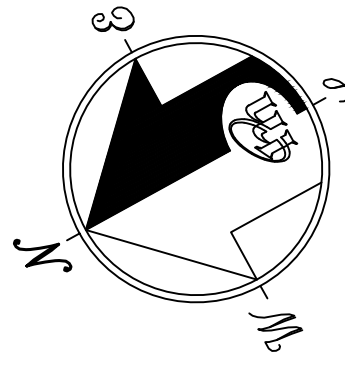
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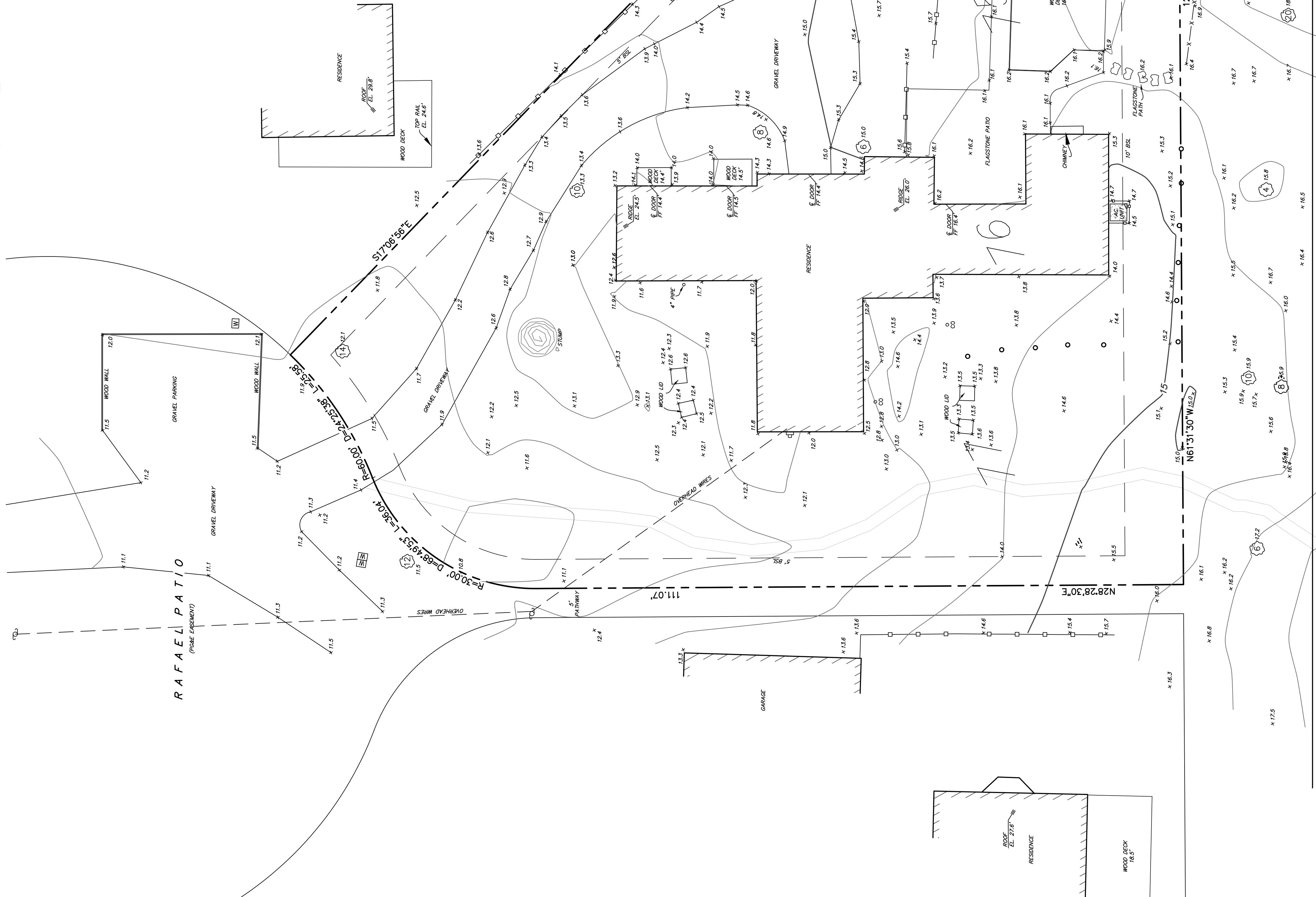
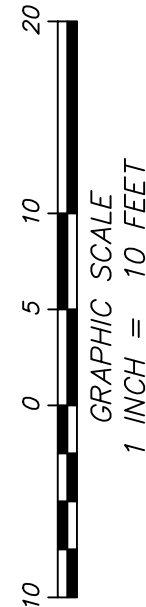
EXTERIOR
RENDERINGS



BASIS OF SURVEY
OLD REPUBLIC TITLE COMPANY PRELIMINARY REPORT ORDER NO. 0457026158,
591 REDWOOD HWY. SUITE 3150, MILL VALLEY, CA. 94941. DATED APRIL 26, 2024.
(TEL.415-388-8740, FAX:415-383-0416)

MAP REFERENCES
[A] UPTON TRACT, 5 RECORD MAPS 62,
MARIN COUNTY RECORDS.

BASIS OF ELEVATION
BASED ON OPUS SOLUTION
NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88) GEOID 18.



SEE SHEET 2



7/31/2025



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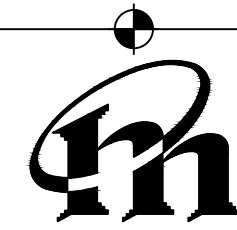
SITE SURVEY

9 RAFAEL PATIO
STINSON BEACH
APN 195-065-06 & 195-105-08
OFFICIAL RECORDS OF MARIN COUNTY

PREPARED AT THE REQUEST OF
FEDERICO ENGEL

MARIN COUNTY
JANUARY

CALIFORNIA
2025



MERIDIAN SURVEYING ENGINEERING, INC.

2958 VAN NESS AVENUE 777 GRAND AVENUE, #202
SAN FRANCISCO, CA 94109 SAN RAFAEL, CA 94901
(415) 440-4131 (415) 456-5450

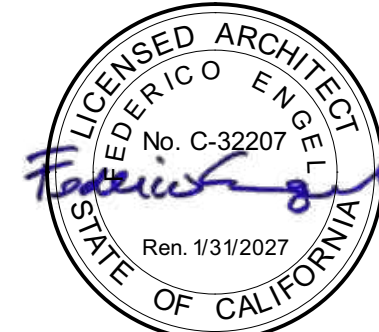
SURVEY BY:	KR	PROJECT NO.:	24092
DRAWN:	KR/AJ	REVISION DATE:	07/24/2025
APPROVED:	STG	SHEET	1 OF 2
FILE NAME:	---		
SURVEY DATE:	1/2025		

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SURVEY

9 RAFAEL PATIO
9 RAFAEL PATIO, STINSON BEACH, CA 94970

APN: 195-065-06

A110

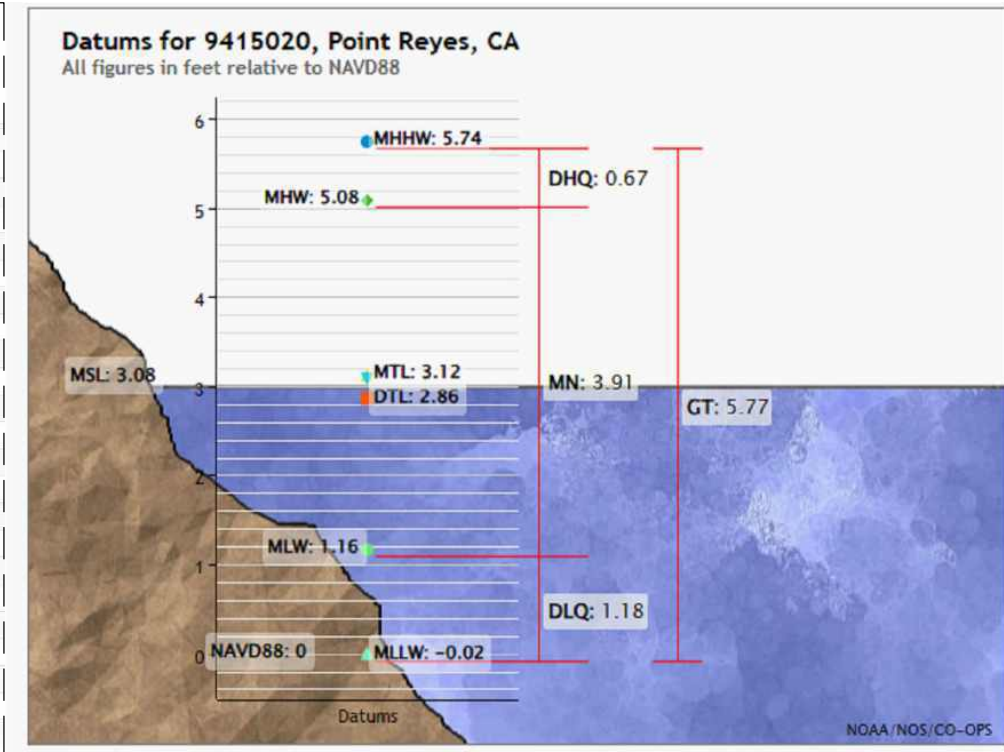
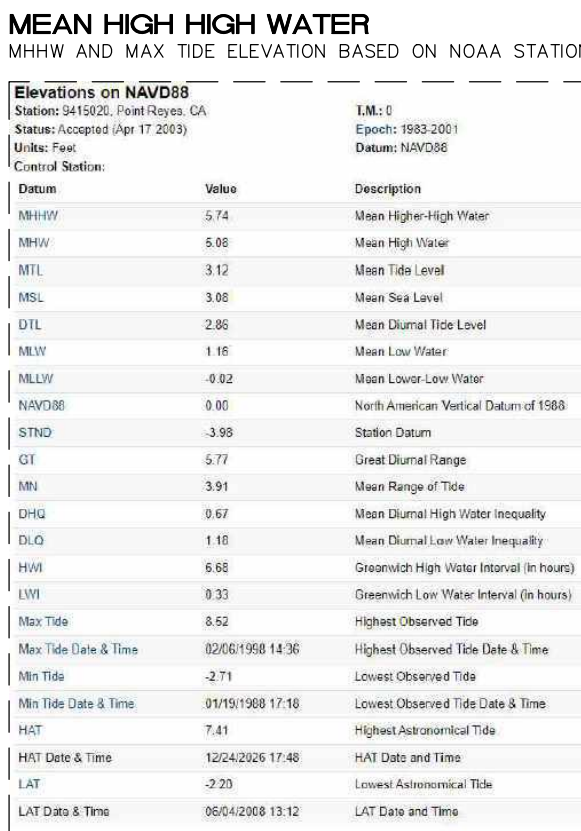
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[A] UPTON TRACT, 5 RECORD MAPS 62,
MARIN COUNTY RECORDS.

BASED ON OPUS SOLUTION
NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88) GEOID 18.

- (1) ALL DISTANCES (RECORD) = MEASURED, UNLESS OTHERWISE NOTED.
- (2) IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE ALL THE UTILITIES MARKED BY THE RESPECTIVE UTILITY COMPANY PRIOR TO CONSTRUCTION.
- (3) PRIOR TO ANY DIGGING, CALL U.S.A. (1-800-642-2444) AT LEAST 48 HOURS IN ADVANCE TO HAVE EXISTING UNDERGROUND UTILITIES MARKED.
- (4) GROUND CONDITIONS SHOWN HEREON REFLECT CONDITIONS ON THE DATE OF THE SURVEY.
- (5) ENCROACHMENT UPON AND BY THE ADJOINING PRIVATE PROPERTY(IES) ARE HEREBY NOTED AND IT SHALL BE THE RESPONSIBILITY SOLELY OF THE PROPERTY OWNER TO REMOVE ANY ENCROACHMENT(S) PRIOR TO THE SURVEY.
- (6) SINCE CURRENT POLICY OF TITLE INSURANCE WAS NOT AVAILABLE AT THE TIME OF THIS SURVEY, THE CONSULTANT IS NOT RESPONSIBLE FOR THE OMISSION HEREON OF ANY FACTS WHICH WOULD NORMALLY BE DISCLOSED BY SUCH A POLICY.
- (7) THIS MAP WAS PREPARED FOR THE EXCLUSIVE USE OF FREDRICO ENGEL & HIS ARCHITECT/ENGINEER, USE BY ANY OTHER PARTY FOR ANY PURPOSE WHATSOEVER IS PROHIBITED.
- (8) ROOF/EAVE ELEVATIONS WERE TAKEN AT HIGHEST RELEVANT POINT(S) VISIBLE FROM THE GROUND.
- (9) TREES WERE LOCATED BY ESTIMATING THE CENTER OF THE TREE WHERE IT ENTERS THE GROUND & IDENTIFYING THE DIAMETER AT BREAST HEIGHT. TREE IDENTIFIERS MAY BE VERIFIED BY A CERTIFIED ARBORIST, IF NECESSARY.
- (10) ONLY ACCESSIBLE SURFACE UTILITIES VISIBLE ON THE DATE OF THIS SURVEY ARE SHOWN. THIS SURVEY DOES NOT SHOW THE LOCATION OF, OR ENCROACHMENTS BY, SUBSURFACE UTILITIES, FOOTING, FOUNDATIONS AND/OR BASEMENTS OF BUILDINGS.
- (11) ALL USERS ARE ADVISED TO CONTRACT SEPARATELY WITH AN UNDERGROUND UTILITY LOCATION COMPANY AND TO REVIEW PUBLIC, QUASI-PUBLIC AND GIS UTILITY DATA SOURCES IF THEY WANT MORE INFORMATION.

	WOOD FENCE	WOOD FENCE
	WIRE FENCE	WIRE FENCE
	CONCRETE	CONCRETE
	SANITARY SEWER CLEANOUT	SANITARY SEWER CLEANOUT
	WATER METER	WATER METER
	UTILITY POLE	UTILITY POLE
	ELECTRIC METER	ELECTRIC METER
	SIGN AS NOTED	SIGN AS NOTED
	WOOD PILING	WOOD PILING
	TREE SYMBOL W/SIZE	TREE SYMBOL W/SIZE
	WOOD RETAINING WALL	WOOD RETAINING WALL
	FINISHED FLOOR	FINISHED FLOOR

[illegible]

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A111



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SITE SURVEY

9 RAFAEL PATIO
STINSON BEACH
APN 195-065-06 & 195-105-08
OFFICIAL RECORDS OF MARIN COUNTY

PREPARED AT THE REQUEST OF
FEDERICO ENGEL

MARIN COUNTY
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APPROVED:	STO	SHEET	2 OF 2
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SURVEY DATE:	1/2025		

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APN: 195-065-06

9 RAFAEL PATIO
PATIO, STINSON BEACH, CA 94970

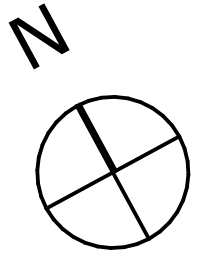
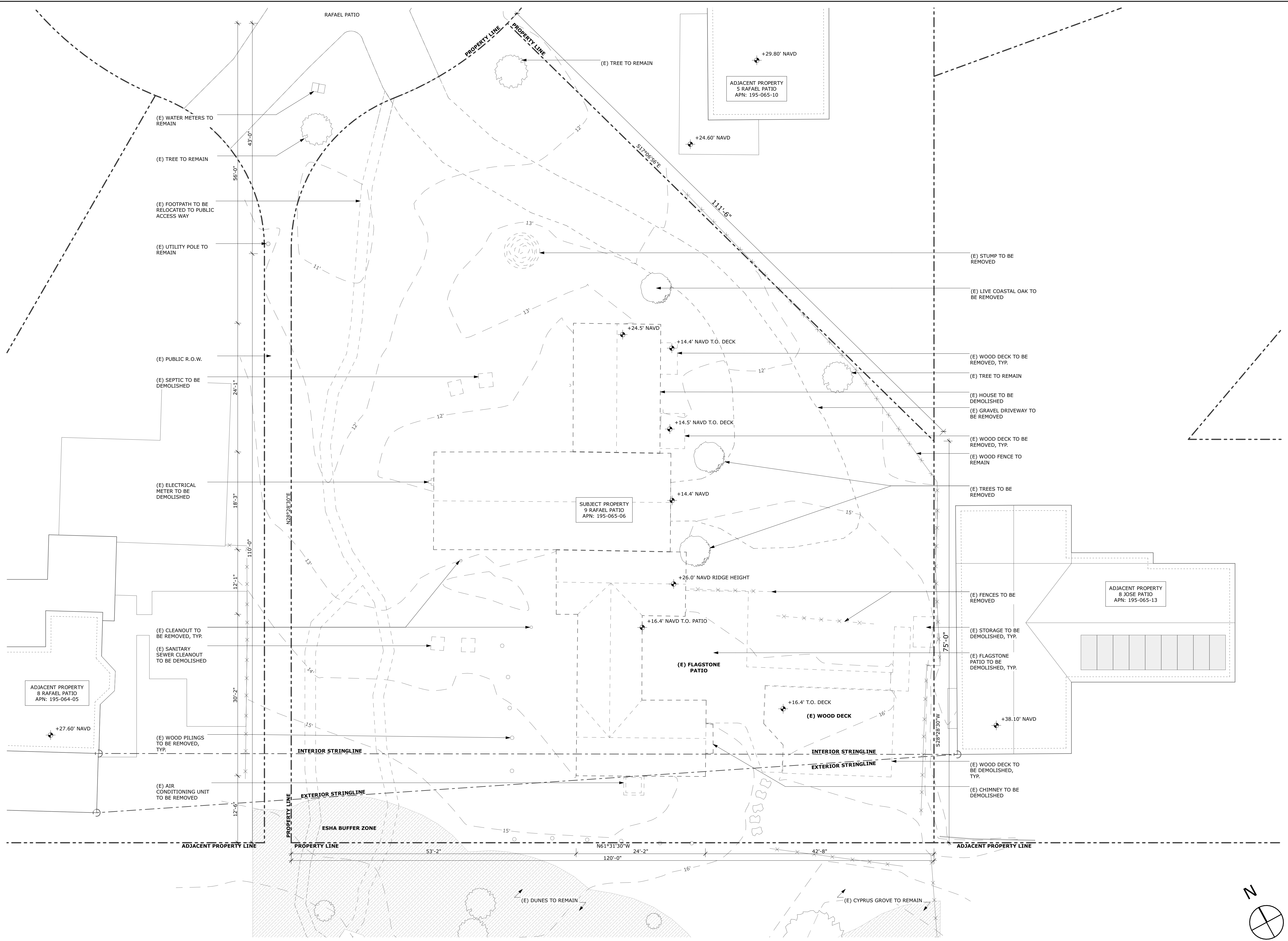
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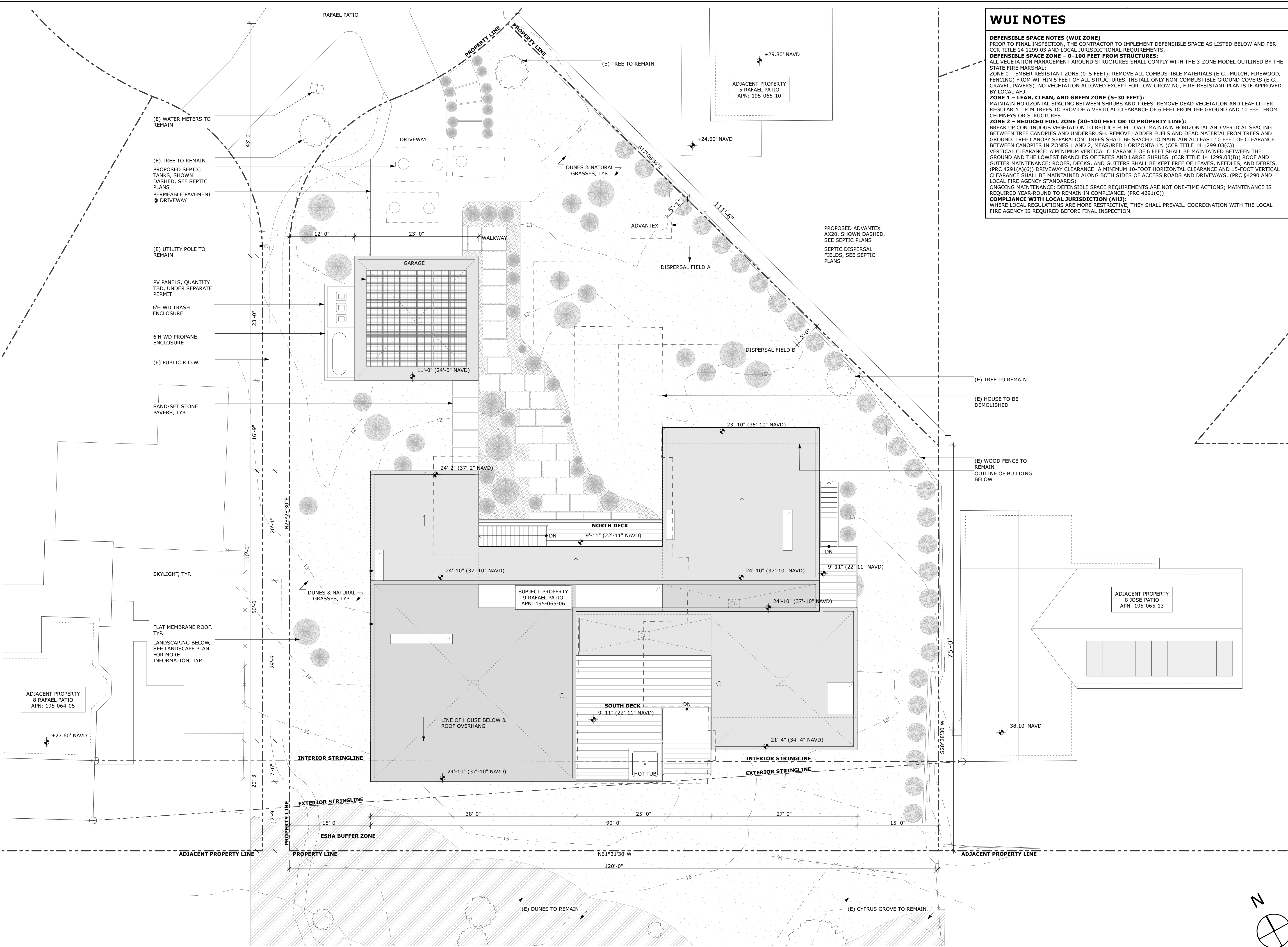


EXISTING &
DEMOLITION
SITE PLAN



1 EXISTING & DEMOLITION SITE PLAN

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



WUI NOTES

DEFENSIBLE SPACE NOTES (WUI ZONE)
PRIOR TO FINAL INSPECTION, THE CONTRACTOR TO IMPLEMENT DEFENSIBLE SPACE AS LISTED BELOW AND PER CCR TITLE 14 1299.03 AND LOCAL JURISDICTIONAL REQUIREMENTS.

DEFENSIBLE SPACE ZONE - 0-100 FEET FROM STRUCTURES:
ALL VEGETATION MANAGEMENT AROUND STRUCTURES SHALL COMPLY WITH THE 3-ZONE MODEL OUTLINED BY THE STATE FIRE MARSHAL:

ZONE 0 - EMBER-RESISTANT ZONE (0-5 FEET): REMOVE ALL COMBUSTIBLE MATERIALS (E.G., MULCH, FIREWOOD, FENCING) FROM WITHIN 5 FEET OF ALL STRUCTURES. INSTALL ONLY NON-COMBUSTIBLE GROUND COVERS (E.G., GRAVEL, PAVERS), NO VEGETATION ALLOWED EXCEPT FOR LOW-GROWING, FIRE-RESISTANT PLANTS IF APPROVED BY LOCAL AHJ.

ZONE 1 - LEAN, CLEAN, AND GREEN ZONE (5-30 FEET):
MAINTAIN HORIZONTAL SPACING BETWEEN SHRUBS AND TREES. REMOVE DEAD VEGETATION AND LEAF LITTER REGULARLY. TRIM TREES TO PROVIDE A VERTICAL CLEARANCE OF 6 FEET FROM THE GROUND AND 10 FEET FROM CHIMNEYS OR STRUCTURES.

ZONE 2 - REDUCED FUEL ZONE (30-100 FEET OR TO PROPERTY LINE):
BREAK UP CONTINUOUS VEGETATION TO REDUCE FUEL LOAD. MAINTAIN HORIZONTAL AND VERTICAL SPACING BETWEEN TREE CANOPIES AND UNDERBRUSH. REMOVE LADDER FUELS AND DEAD MATERIAL FROM TREES AND GROUND. TREE CANOPY SEPARATION: TREES SHALL BE SPACED TO MAINTAIN AT LEAST 10 FEET OF CLEARANCE BETWEEN CANOPIES IN ZONES 1 AND 2, MEASURED HORIZONTALLY. (CCR TITLE 14 1299.03(C))
VERTICAL CLEARANCE: A MINIMUM VERTICAL CLEARANCE OF 6 FEET SHALL BE MAINTAINED BETWEEN THE GROUND AND THE LOWEST BRANCHES OF TREES AND LARGE SHRUBS. (CCR TITLE 14 1299.03(B)) ROOF AND GUTTER MAINTENANCE: ROOFS, DECKS, AND GUTTERS SHALL BE KEPT FREE OF LEAVES, NEEDLES, AND DEBRIS. (PRC 4291(A)(6)) DRIVEWAY CLEARANCE: A MINIMUM 10-FOOT HORIZONTAL CLEARANCE AND 15-FOOT VERTICAL CLEARANCE SHALL BE MAINTAINED ALONG BOTH SIDES OF ACCESS ROADS AND DRIVEWAYS. (PRC 54290 AND LOCAL FIRE AGENCY STANDARDS)
ONGOING MAINTENANCE: DEFENSIBLE SPACE REQUIREMENTS ARE NOT ONE-TIME ACTIONS; MAINTENANCE IS REQUIRED YEAR-ROUND TO REMAIN IN COMPLIANCE. (PRC 4291(C))

COMPLIANCE WITH LOCAL JURISDICTION (AHJ):
WHERE LOCAL REGULATIONS ARE MORE RESTRICTIVE, THEY SHALL PREVAIL. COORDINATION WITH THE LOCAL FIRE AGENCY IS REQUIRED BEFORE FINAL INSPECTION.

BUTLER ARMSDEN ARCHITECTS

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E INFO@BUTLERARMSDEN.COM
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9 RAFAEL PATIO
9 RAFAEL PATIO, STINSON BEACH, CA 94970

APN: 195-065-06

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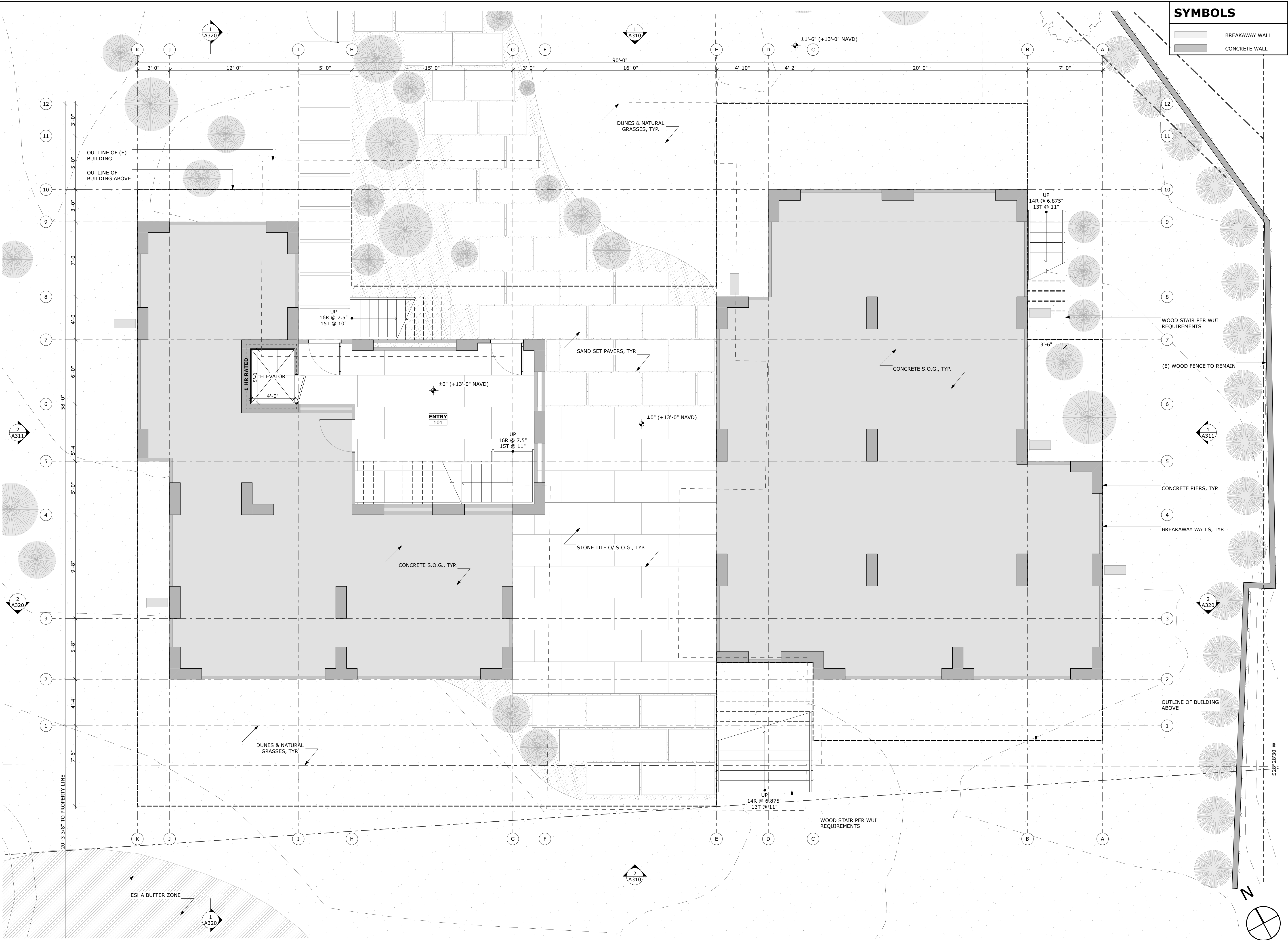
PROPOSED SITE PLAN

A130

1 PROPOSED SITE PLAN

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

BIMcloud: bim.butlerarmnsden.com - BIMcloud Basic for Archicad 28/2410 9 Rafael Patio/2410 Current: 9RafaelPatio V28
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1 PROPOSED FIRST FLOOR PLAN
SCALE: 1/4" = 1'-0"

SYMBOLS

- BREAKAWAY WALL
- CONCRETE WALL

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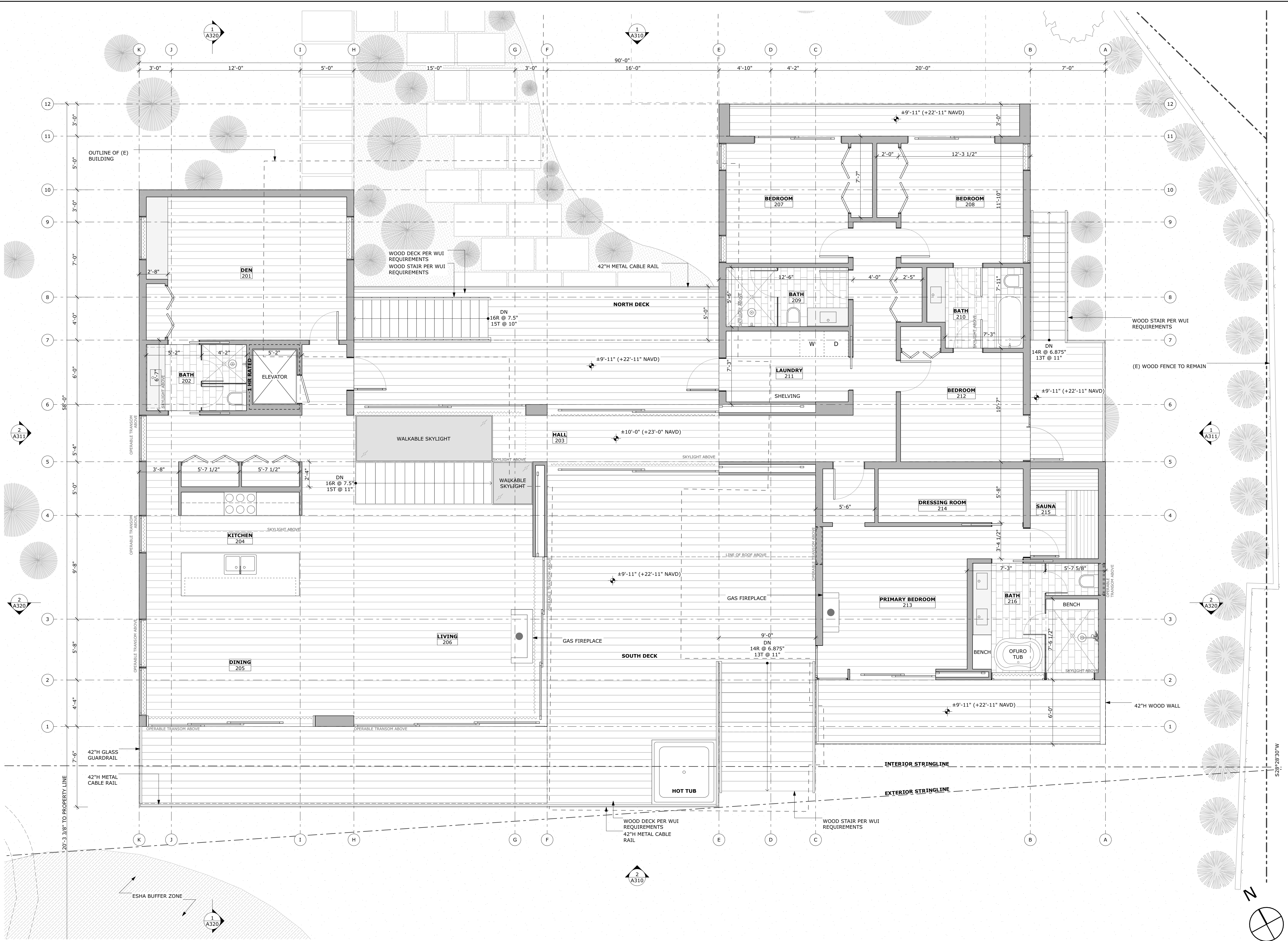
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PROPOSED FIRST FLOOR PLAN

A210



1 PROPOSED SECOND FLOOR PLAN

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

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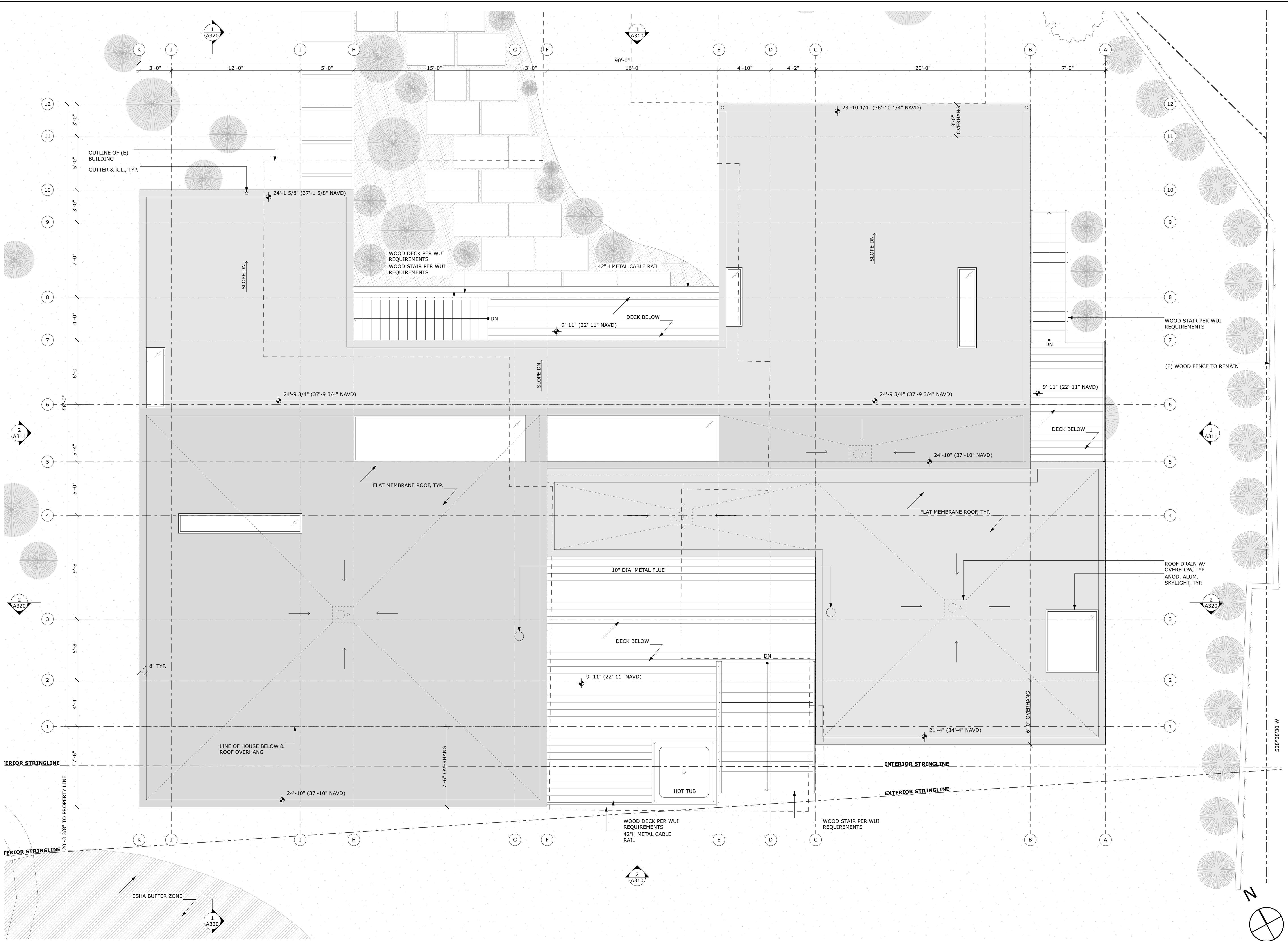
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PROPOSED SECOND FLOOR PLAN

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1 PROPOSED ROOF PLAN
SCALE: 1/4" = 1'-0"

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APN: 195-065-06

DESIGN REVIEW SET

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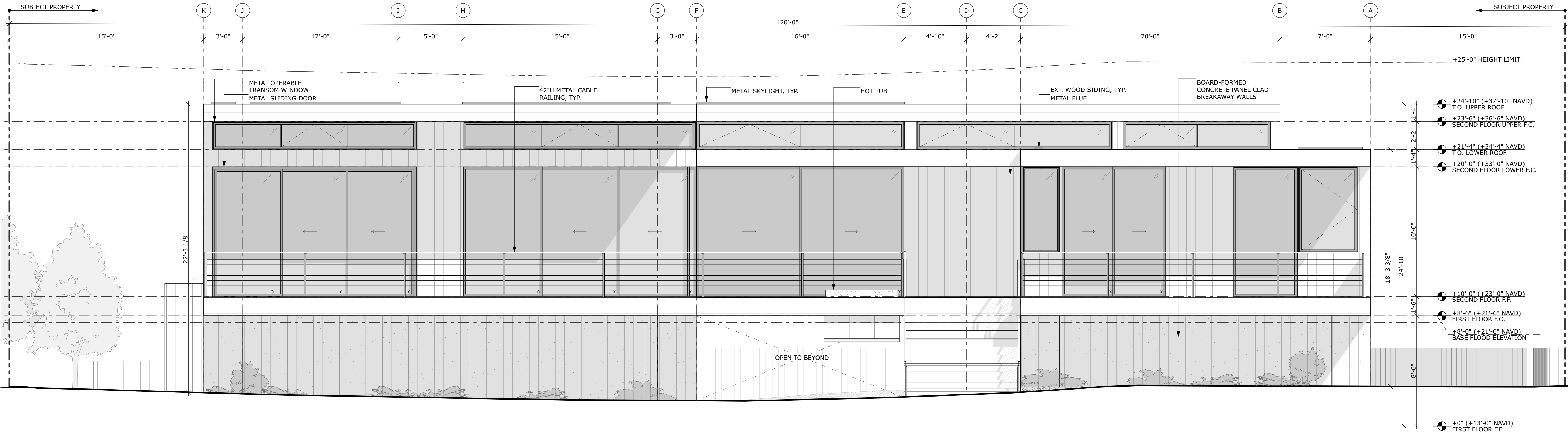
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SCALE:	AS NOTED



**PROPOSED
ROOF PLAN**

A212

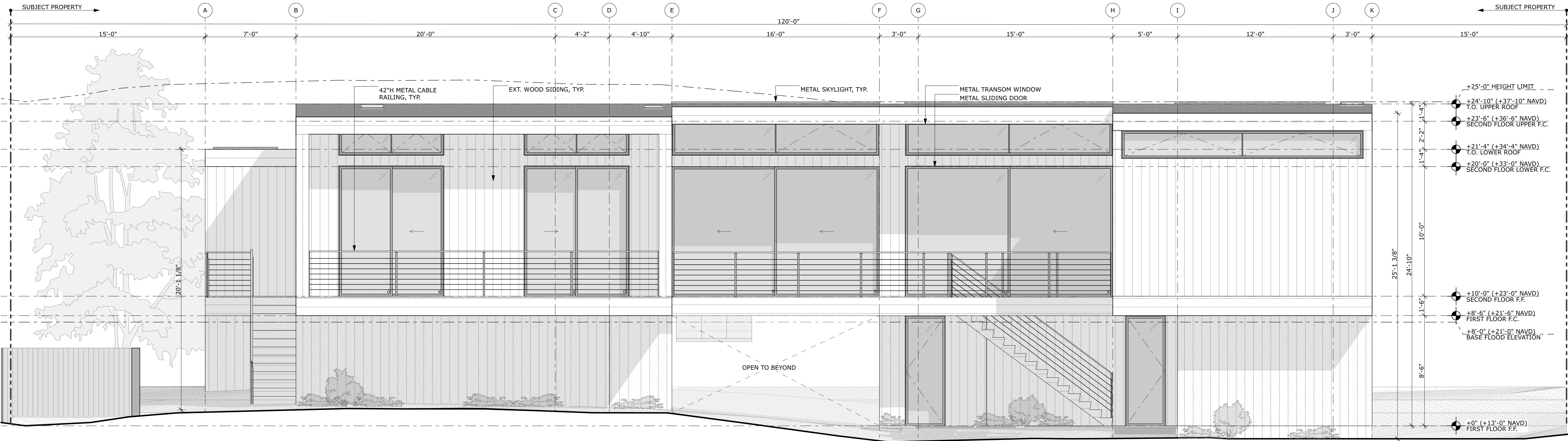
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2

PROPOSED SOUTH ELEVATION

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



1

PROPOSED NORTH ELEVATION

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

DESIGN REVIEW SET

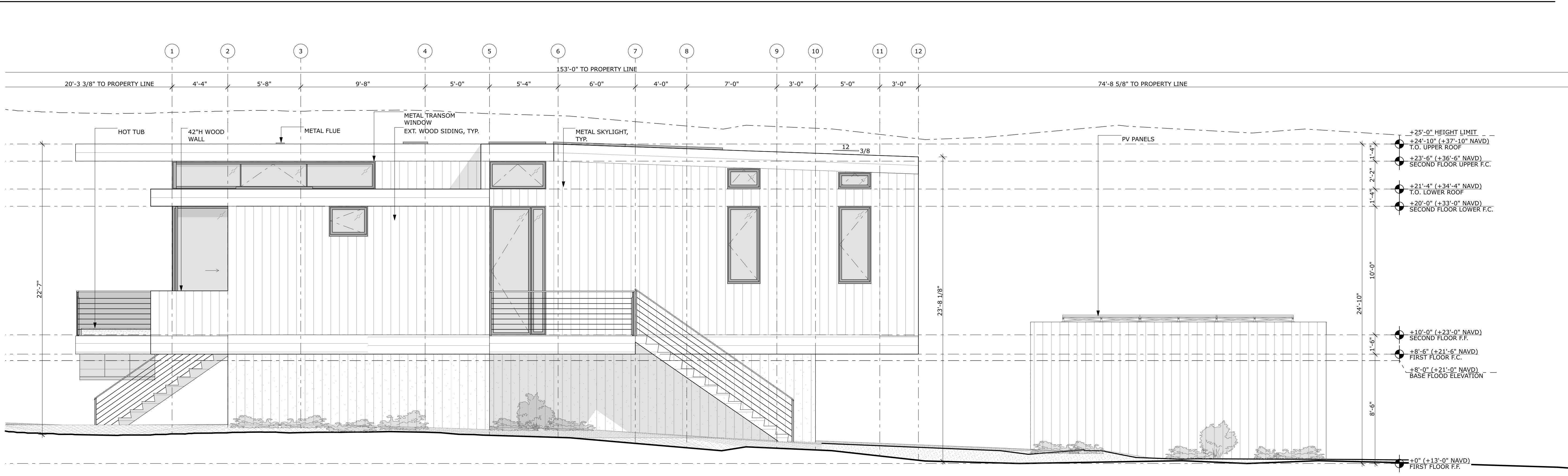
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DRAWN:	JM, NL
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PROPOSED
EXTERIOR
ELEVATIONS

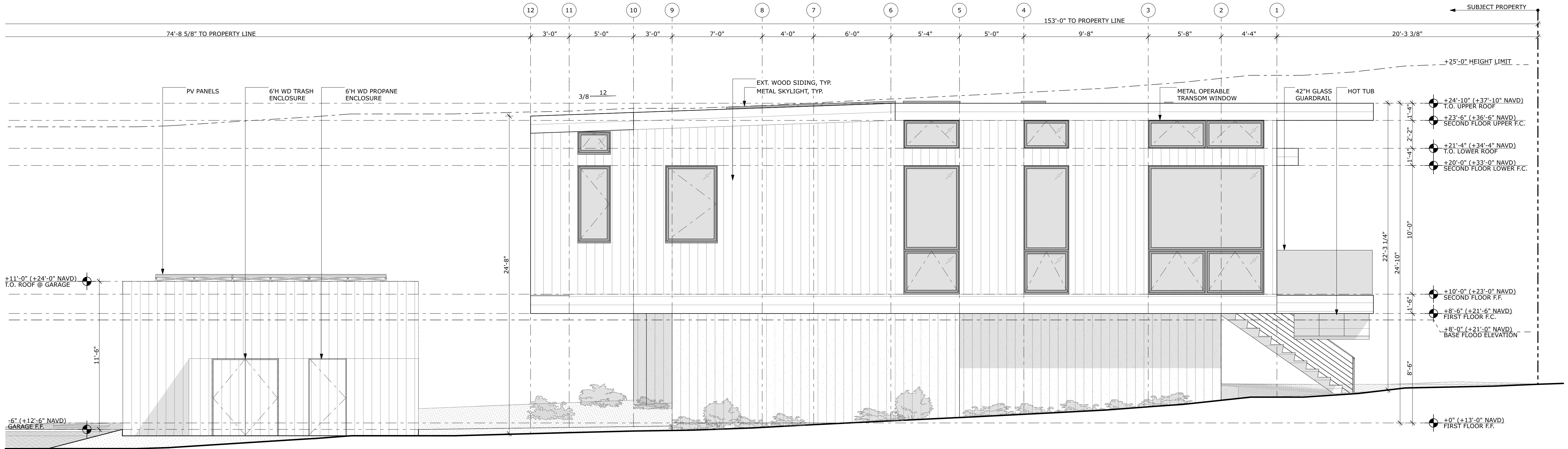
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2

PROPOSED EAST ELEVATION

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



1

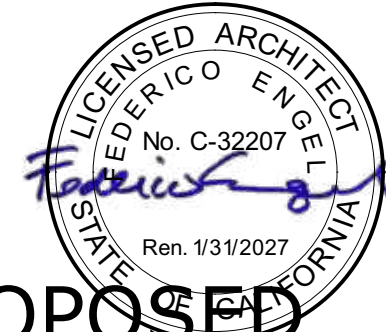
PROPOSED WEST ELEVATION

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

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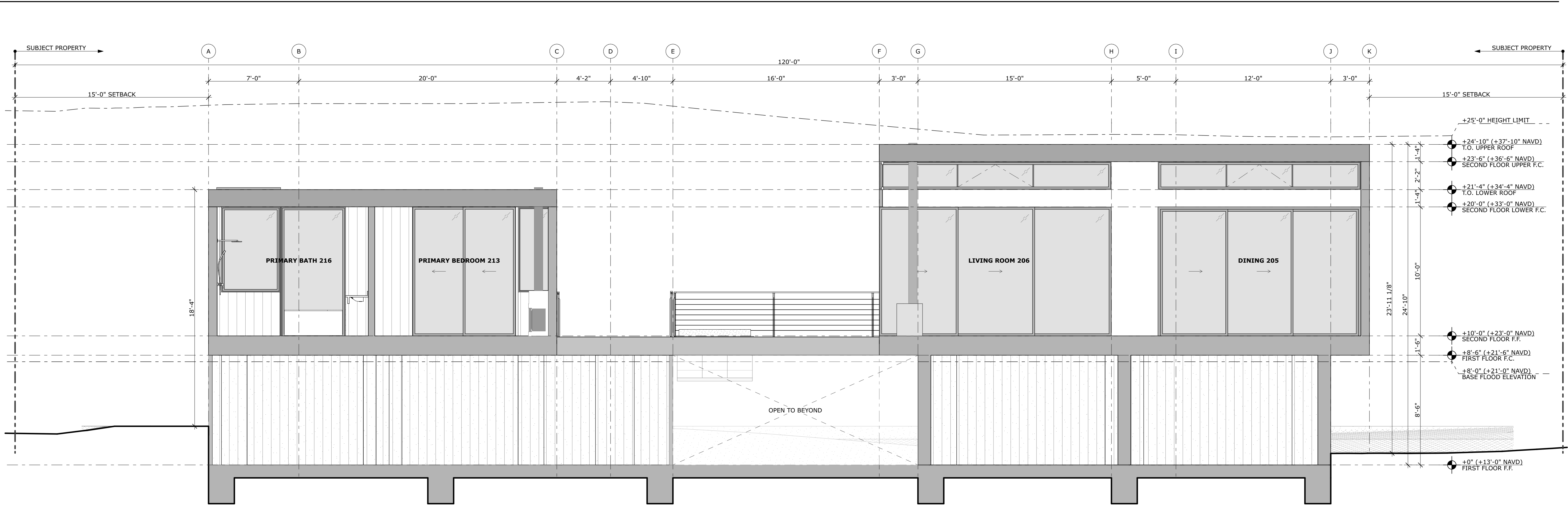
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CHECKED:	FE, DS
SCALE:	AS NOTED



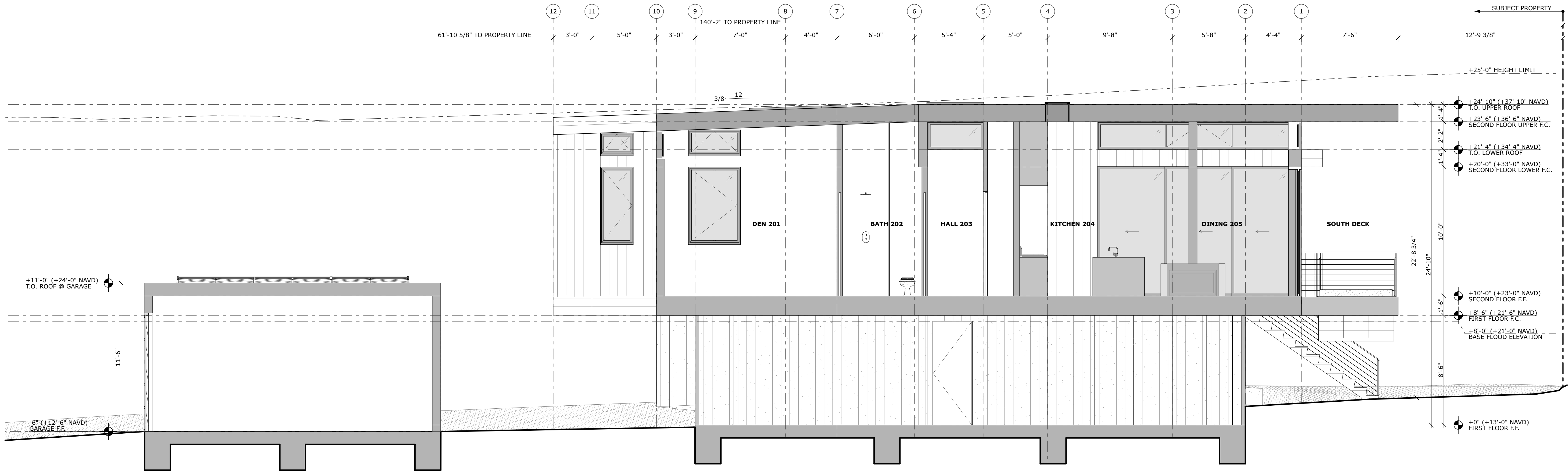
PROPOSED
EXTERIOR
ELEVATIONS

A311

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2 PROPOSED LONGITUDINAL SECTION
SCALE: 1/4" = 1'-0"



1 PROPOSED TRANSVERSE SECTION
SCALE: 1/4" = 1'-0"

**BUTLER ARMSDEN
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APN: 195-065-06

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PROPOSED
SECTIONS

A320

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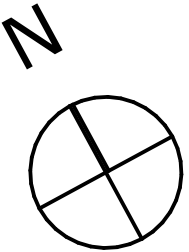
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LANDSCAPE
EXT. LIGHTING
PLAN FIRST
FLOOR



1 PROPOSED LANDSCAPE PLAN - FIRST FLOOR
SCALE: 1/8" = 1'-0"

L110

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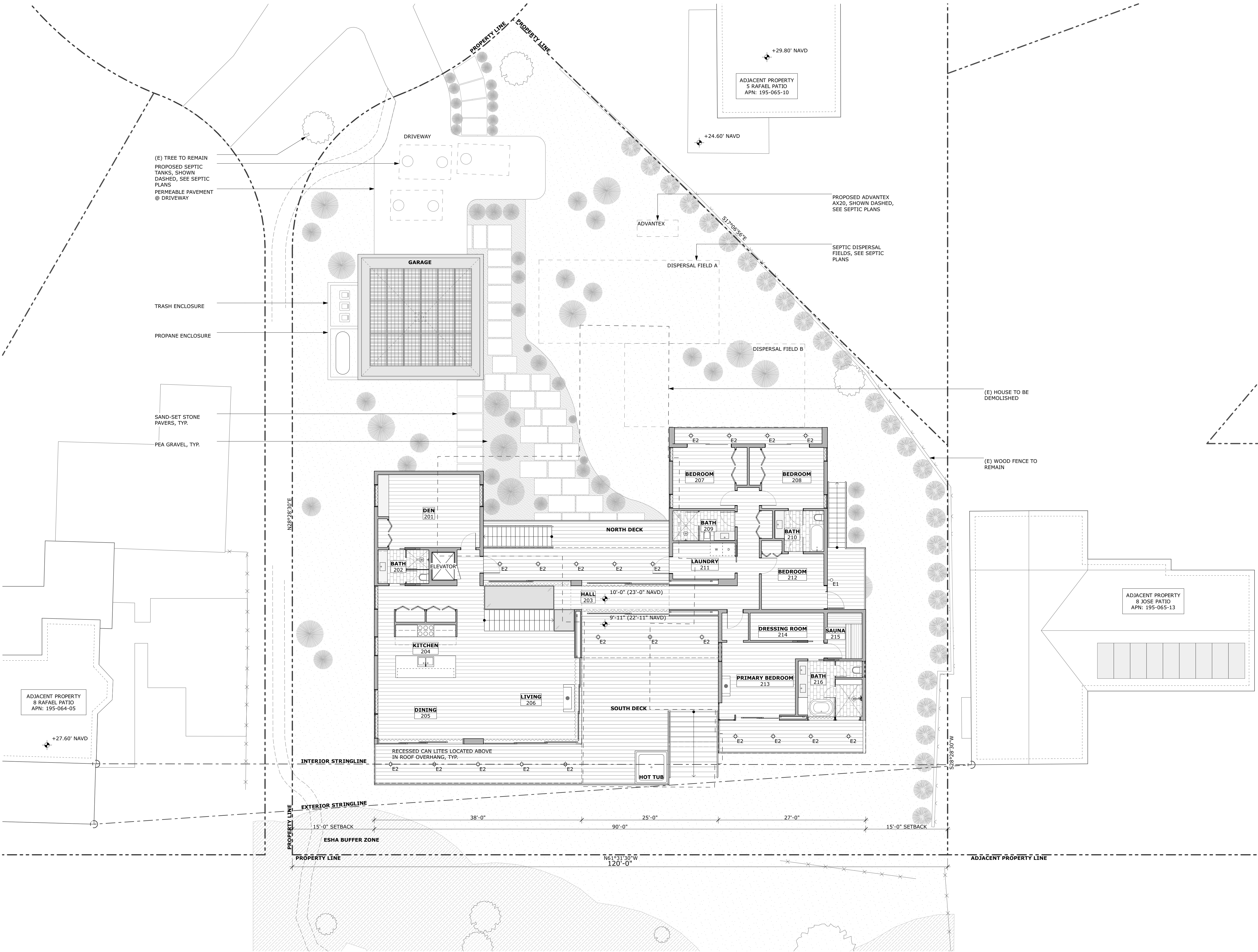
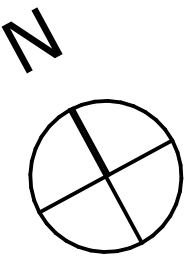
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CHECKED:	FE, DS
SCALE:	AS NOTED



LANDSCAPE
EXT. LIGHTING
PLAN SECOND
FLOOR



1 PROPOSED LANDSCAPE PLAN - SECOND FLOOR
SCALE: 1/8" = 1'-0"

SPECIFICATIONS

GreenSource Initiative™

Metal and packaging components are made from recycled materials. Manufactured using renewable solar energy produced on site. Returnable to manufacturer at end of life to ensure cradle-to-cradle handling. Packaging contains no chlorofluorocarbons (CFC's). Use of this product may qualify for GreenSource efficacy and recycling rebates. Consult: www.bulging.com/greensource for program requirements.

Materials:

Finished: Copper Free Aluminum (Type 8081-T6, Bites Type 3003) or Stainless Steel (Type 304)

Body:

Fully machined from solid billet. Unibody design provides enclosed, water-proof venturi and integral heat sink for maximum component life. Integrated bracket for maximum mechanical strength. High temperature, silicone O' ring provides water-tight seal.

Knuckle:

The LOCK™ Locking O' Ring Compression Knuckle is comprised of two components. The first is integral to the body and features an internal mechanical latch. The second is machined from solid billet and features a second, reverse facing latch. The friction mechanical latch lock allows a full 180° vertical adjustment without the use of untested bolts, which inherently break away. High temperature silicone O' ring provides water-tight seal and compression resistance to maintain fixture position. Design withstands 73 lb static load prior to movement to ensure decades of optimal alignment. O' ring treated for mounting.

Optional 360SL™ additionally provides dual source control with 360° horizontal rotation in addition to vertical adjustment.

Cap

Fully machined. Accommodates 1/16 inch or heavier media. Choose from 45° conical (A or C), 180° steep wall angle (B), conical (D or E), or flush lens (F) cap styles. A and F cap include venturi for water and debris drainage. D and E caps exclude venturi and are for interior use only.

Lens

Shock resistant, tempered, glass lens is factory adhered to component. Specify soft focus (F12) or retillable (F13).

ROCKS™

Integrated solid state system with "i" technology. High power, forward throw compatible with ANSI C13.7 dimming requirements. Exceeds ENERGY STAR® lumens maintenance requirements. LM-80 certified components.

Integral non-dimming driver. Minimum 50,000 hour rated life at 30% of initial lumens (L70). 80,000 technology provides long life, significant energy reduction and exceptional thermal management.

Optics

OPTIST™ modules are color-coded for easy reference: Warm Spot (NPR) = Red, Spot (SP) = Green, Medium Flood (MF) = Yellow and Asymmetrical (AS) = Purple.

Remote Transformer

For use with 12VAC, 40W-500W, remote transformer or magnetic transformers only. B.K. Lighting cannot guarantee performance with third party manufacturer transformers.

Wiring

Refer to standard, 168WHS, 600V, 250° C rated and certified to UL 1659 standard.

Hardware

Tamper-resistant, stainless steel hardware. LOCK™ mounting screw is additionally black oxide treated for additional corrosion resistance.

Finish

StarGuard™, our exclusive flake compliant, 15 stage chromate free process, cleans and conversion coats aluminum before going to application of Class A TGSC polyester powder coating. Best components are available in powder coat or handcrafted metal finish. Stainless steel components are available in handcrafted metal finish. Brushed finish for interior safety only.

Warranty

3 year limited warranty.

Certification and Listing

ETL tested to IEC60598-1, UL Listed, Certified to CAN/CSA C90.3 Standard. RoHS compliant. Suitable for indoor or outdoor use. Suitable for use in wet locations. Suitable for installation within 4' of the ground. IP65 Rated. Made in USA.

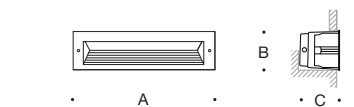


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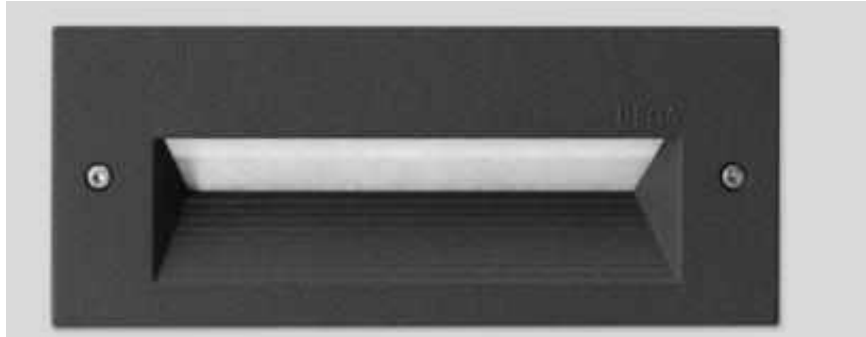
Application
LED recessed wall luminaire with asymmetrical light distribution for the illumination of ground surfaces, building entrances, stairs and footpaths.

Materials
Luminaire housing constructed of die-cast aluminum marine grade, copper free (≤ 0.3% copper content) A360.0 aluminum alloy
Clear safety glass
Silicone applied robotically to casting, plasma treated for increased adhesion
High temperature silicone gasket
Mechanically captive stainless steel fasteners
Stainless steel screw clamps
Composite installation housing
NRTL listed to North American Standards, suitable for wet locations
Protection class IP65
Weight: 1.5 lbs

Electrical
Operating voltage 120-277V AC
Minimum start temperature -40° C
LED module wattage 4.1W
System wattage 6.0W
Controllability 0-10V dimmable
Ra > 80
Color rendering index Ra > 80
Luminaire lumens 231 lumens (3000K)
Lifetime at Ta=15°C 428,000 h (L70)
Lifetime at Ta=25°C 229,000 h (L70)



LED recessed wall luminaires - asymmetrical				
	LED	A	B	C
33053	4.1W	6 5/8"	2 3/4"	5"



RECESSED WALL/ STEP LIGHT E4
BEGA LIGHTING
6 WATT 2700K LED

CATALOG NUMBER LOGIC	
Example: L14 - 18 - LED - e71 - VER - A18 - SF	
MATERIAL	
Aluminum	
SERIES	
L14 - Littered® Pathlight Style "L"	
STEM LENGTH	
3' 6" 12' 18' 24'	
SOURCE	
LED - with Non-Dimming Integral Driver*	
LED TYPE	
e70 - 3W LED/2700K e85 - 3W LED/2700K 90 CRI	
e71 - 3W LED/3000K e86 - 3W LED/3000K 90 CRI	
e72 - 3W LED/4000K e87 - 3W LED/3500K 80 CRI	
e73 - 3W LED/Arctic	
FINISH (See page 2 for full-color swatches)	
Standard Finishes (B2Z, B2W, B.LX, B.LX, WHW, WHW, SAP, VER)	
Premium Finish (ABR, AMG, AQW, BCM, BGE, BPP, CAP, CMG, CRG, HUG, NBP, OCP, PMG, SDS, SMG, TAC, WCP, WBY)	
Also available in RAL Finishes	
MOUNTING	
PP1820 - 18" Power Pipe Stake with 18" Cap*	
A18 - 18" Power Pipe with 18" Adjustable Stem (Must be specified with a 18" stem)	
PP18x20 - Power Pipe T with 18" Stake, Th20 Electronic Transformer (105-300 VAC, 50/60 Hz, non-dimming)*	
OPTIONS	
SF - Stability Flange (For use with Power Pipe)	

SPECIFICATIONS

GreenSource Initiative™

Metal and packaging components are made from recycled materials. Manufactured using renewable solar energy produced on site. Returnable to manufacturer at end of life to ensure cradle-to-cradle handling. Packaging contains no chlorofluorocarbons (CFC's). Use of this product may qualify for GreenSource efficacy and recycling rebates. Consult: www.bulging.com/greensource for program requirements.

Materials:

Finished: Copper Free Aluminum (Type 8081-T6, Bites Type 3003) or Stainless Steel (Type 304)

Backbox

Round, 4 1/4" dia. x 3 1/8" deep construction with (2) mounting tabs. Front access for wire connection and inspection. Insulated with 3/16" thick EPS topped with 1/4" plugs. Suitable for concrete pour.

Faceplate

Fully machined from solid billet. Countersunk holes provide for flush hardware mounting with (2) tamper-resistant, stainless steel mounting screws. Stainless steel universal mounting ring for faceplate adjustment and 1/8" thick 18-804 silicone foam gasket with acrylic adhesive for water-tight seal. Accommodates 1/16 inch or heavier media.

Lens

Shock resistant, tempered, glass lens is factory adhered to component. Specify soft focus (F12) or retillable (F13) lens.

ROCKS™

Integrated solid state system with "i" technology is scalable for field options. Modular design with electrical switch disconnects permit field maintenance. High power, forward throw source compatible with ANSI C13.7 dimming requirements. Exceeds ENERGY STAR® lumens maintenance requirements. LM-80 certified components.

Integral, constant current driver. 12VAC/VDC input. 50/100Hz.
Proprietary input control scheme achieves power factor correction and eliminates switch current. Output, open voltage, overvoltage, and short circuit protection. Switch current limited to <1A non-dimming. Conforms to Safety 801 C22 No 250-13-12.
One voltage dimmable via integral low voltage driver. For use with low voltage dimmer with dedicated remote function. For purposes of dimming, forward throw transformer with 800SL™ power of "i" technology loads should be loaded to 25% of the transformer VA (watts) rated value.
Optics

Interchangeable OPTIST™ modules permit field changes to optical distribution. Color-coded for easy reference: Warm Spot (NPR) = Red, Spot (SP) = Green, Medium Flood (MF) = Yellow, Wide Flood (WF) = Blue. Adjustable optical bracket provides up to 20° vertical aiming.
Adjust-e-Lume® (Pat. Pending)
Integral electronics allow dynamic lumen response at the individual fixture. Indeed 100% to 20% range lumen output. Maintains output at desired level or may be changed as conditions require. Specify factory preset output intensity.

Remote Transformer

For use with 12VAC, 40W-500W, remote transformer or magnetic transformers only. B.K. Lighting cannot guarantee performance with third party manufacturer transformers.

Wiring

Refer to standard, 168WHS, 600V, 250° C rated and certified to UL 1659 standard.

Hardware

Tamper-resistant, stainless steel hardware. Faceplate screws are additionally black oxide treated for additional corrosion resistance.

Finish

StarGuard™, our exclusive flake compliant, 15 stage chromate free process, cleans and conversion coats aluminum components prior to application of Class A TGSC polyester powder coating. Best components are available in powder coat or handcrafted metal finish. Stainless steel components are available in handcrafted metal finish. Brushed finish for interior use only.

Warranty

3 year limited warranty.

Certification and Listing

ETL tested to IEC60598-1, UL Listed, Certified to CAN/CSA C90.3 Standard. RoHS compliant. Suitable for indoor or outdoor use. Suitable for installation in combustible materials (Type Non-C). Suitable for use in wet locations. Suitable for installation within 4' of the ground. IP65 Rated. Made in USA.



RoHS is a registered trademark of the European Commission. UL is a registered trademark of the United States Environmental Protection Agency.

PATH LIGHT LANDSCAPING E3
LITESTICK STYLE 'L' LED
3 WATT 2700K LED



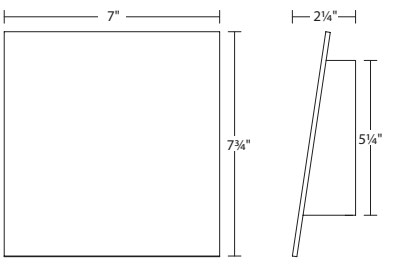
2363 Angled LED Plane Downlight LED Sconce

Dimensions:
Height: 7 1/4"
Width: 7"

Description:
Shade: Aluminum
Extension: 2 3/4"
Wall Plate: 5 1/4" x 5 1/2"
Dimmable by:
Electronic Low Voltage (ELV)
WET LOCATION (downlight only)

Lamping Options:
LED:
13w, 840 Lumens
Warm White (3000K), 90 CRI
120VAC Input
w/12VAC Transformer

Available Finishes:
Textured Bronze
2363.72-WL
Textured Gray
2363.74-WL
Textured White
2363.98-WL





EXTERIOR WALL SCONCE E1
SONNEMAN
13 WATT LED



Turkish Speedwell V1
Veronica Liwanensis
2"x2' Growth Pattern
WUCOLS IV: moderate



Carmel Creeper Wild Lilac Cg
Ceanothus Griseus Horizontalis
1.5' tall, 3' wide Growth Pattern
WUCOLS IV: Low



White Trailing Lantana Ls
Latana Sellowiana
1'x3' Growth Pattern
WUCOLS IV: Low/ Occasional

PERENNIALS / GROUNDCOVER



Peruvian Feather Grass Si
Stipa Ichu
3'-6' Growth Pattern
WUCOLS IV: Low



Deer Grass Mr
Muhlenbergia Rigens
1'-3' Growth Pattern
WUCOLS IV: Low



Clustered Field Sedge Cp
Carex Praegracilis
1' tall, 3' wide Growth Pattern
WUCOLS IV: Moderate

SHRUBS / GRASSES



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APN: 195-065-06

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LANDSCAPE SPECIFICATION

L120

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EROSION CONTROL LEGEND

- CONSTRUCTION FENCING
- SILT FENCING
- CONSTRUCTION ENTRANCE
- WD

CONCRETE WASHDOWN AREA
- D

DELIVERY AREA
- S

NON HAZARDOUS STORAGE
- PT

PORTABLE TOILET WITH LINER
- TREE PROTECTION
- DRAINAGE DISPERSAL

LEGEND

- DECK
- STONE PAVERS
- PEA GRAVEL

ABBREVIATIONS

- AC

ASPHALT CONCRETE

FS

FINISH SURFACE
- CONC

CONCRETE

GB

GRADE BREAK
- DWY

DRIVEWAY

(N)

NEW
- DS

DOWN SPOUT

PA

PLANTING AREA
- (E)

EXISTING

SF

SQUARE FEET
- EG

EXISTING GRADE

TS

TOP OF STAIR
- FF

FINISH FLOOR

TW

TOP OF WALL
- FG

FINISH GRADE

bw

BOTTOM OF WALL
- VIF

VERIFY IN FIELD

GENERAL NOTES

1. TOPOGRAPHIC INFORMATION SHOWN ON THIS PLAN WAS TAKEN FROM A SITE SURVEY PERFORMED BY MERIDIAN SURVEYING ENGINEERING, INC. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE COUNTY OF MARIN STANDARD PLANS AND SPECIFICATIONS
3. CIVIL ENGINEER SHALL INSPECT SITE AT COMPLETION OF ALL GRADING & DRAINAGE IMPROVEMENTS TO CONFIRM INSTALLATION IN ACCORDANCE WITH THE APPROVED PLANS. CIVIL ENGINEER WILL PROVIDE CERTIFICATION LETTER TO DPW. CERTIFICATION LETTER SHALL INCLUDE BUILDING PERMIT NUMBER & APN.

EARTHWORK QUANTITIES

1. PROPOSED FINISH GRADE IS DEFINED AS THE FINAL GRADE AS INDICATED ON THE GRADING PLAN.
2. THE EARTHWORK QUANTITIES ABOVE HAVE BEEN ADJUSTED FOR AN ASSUMED PAVEMENT SECTION OF 8". NO ADDITIONAL ADJUSTMENTS HAVE BEEN MADE.
4. THE CONTRACTOR SHALL RELY ON THEIR EARTHWORK ESTIMATES FOR BIDDING PURPOSES.
5. THE EARTHWORK QUANTITIES ABOVE ARE FOR PERMIT PURPOSES ONLY.
6. THE CONTRACTOR SHALL PERFORM EARTHWORK CALCULATIONS WHICH ACCOUNT FOR PROPOSED METHODS OF GRADING AND TRENCHING AS DEEMED NECESSARY FOR BIDDING AND CONSTRUCTION PURPOSES. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO BALANCE THE EARTHWORK OF THE PROJECT AND TO ACCOUNT FOR THE COST NECESSARY IMPORTING OR EXPORTING OF EARTH IN THE BID. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED FOR THIS ITEM OF WORK UNLESS THE OWNER REQUESTS ADDITIONAL WORK BE PERFORMED.
7. THE EARTHWORK SUMMARY TABULATION ON THESE PLANS IS PROVIDED AS A COURTESY AND A CONVENIENCE TO THE GRADING CONTRACTOR. THE INCLUSION OF THE SUMMARY ON THIS PLAN DOES NOT RELIEVE THE GRADING CONTRACTOR OF SOLE RESPONSIBILITY TO DETERMINE THE EARTHWORK QUANTITIES THAT WILL BE REQUIRED ON THE PROJECT. IT IS UNDERSTOOD BY THE OWNER AND THE CONTRACTOR THAT THE BID PRICE FOR ROUGH GRADING IS BASED ON THE CONTRACTOR'S OWN EARTHWORK ESTIMATE. IS A FULL AND COMPLETE PRICE FOR THE WORK, AND IS NOT BASED ON THE QUANTITIES ESTIMATED BY THE ENGINEER OR ARCHITECT.

DRAINAGE NOTES

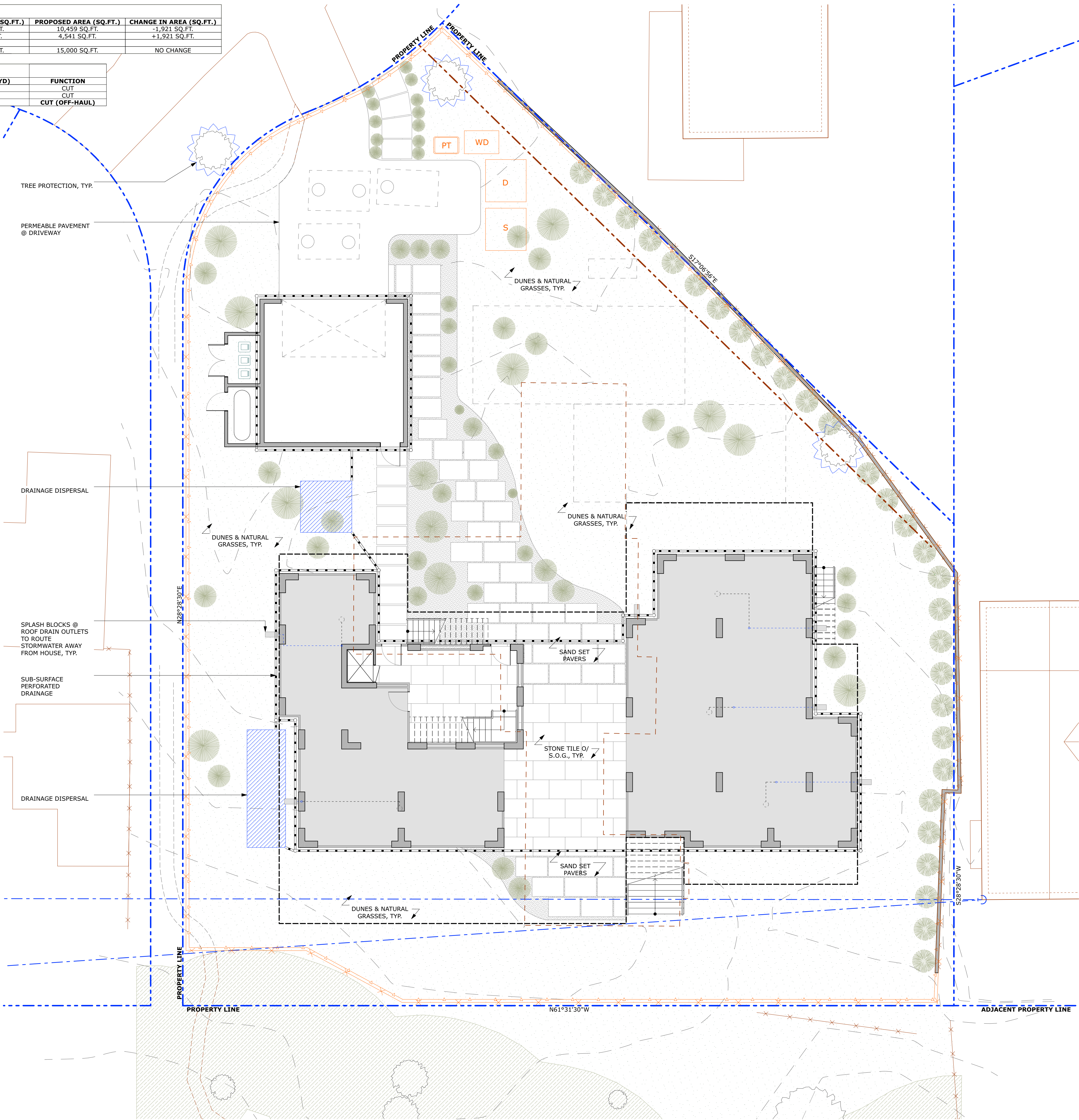
1. ALL STORM DRAIN PIPES SHALL BE SDR 35 PVC OR APPROVED EQUIVALENT.
2. ALL PERFORATED PIPES SHALL BE SDR 35 OR APPROVED EQUIVALENT.
3. STORM DRAINAGE SYSTEMS SHOWN ON THESE PLANS HAVE BEEN DESIGNED FOR THE FINAL SITE CONDITION AT COMPLETION OF THE PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ADEQUATE DRAINAGE OF THE SITE, DURING INTERIM CONDITIONS OF CONSTRUCTION.

IMPERVIOUS CALCULATIONS:

	EXISTING AREA (SQ.FT.)	PROPOSED AREA (SQ.FT.)	CHANGE IN AREA (SQ.FT.)
PERVIOUS:	12,380 SQ.FT.	10,459 SQ.FT.	-1,921 SQ.FT.
IMPERVIOUS:	2,620 SQ.FT.	4,541 SQ.FT.	+1,921 SQ.FT.
TOTAL SITE AREA:	15,000 SQ.FT.	15,000 SQ.FT.	NO CHANGE

GRADING CALCULATIONS:

ZONE	VOLUME (CUYD)	FUNCTION
MAIN HOUSE	238.4	CUT
GARAGE	39.2	CUT
TOTAL	277.6	CUT (OFF-HAUL)



1 GRADING, DRAINAGE, & EROSION CONTROL PLAN

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

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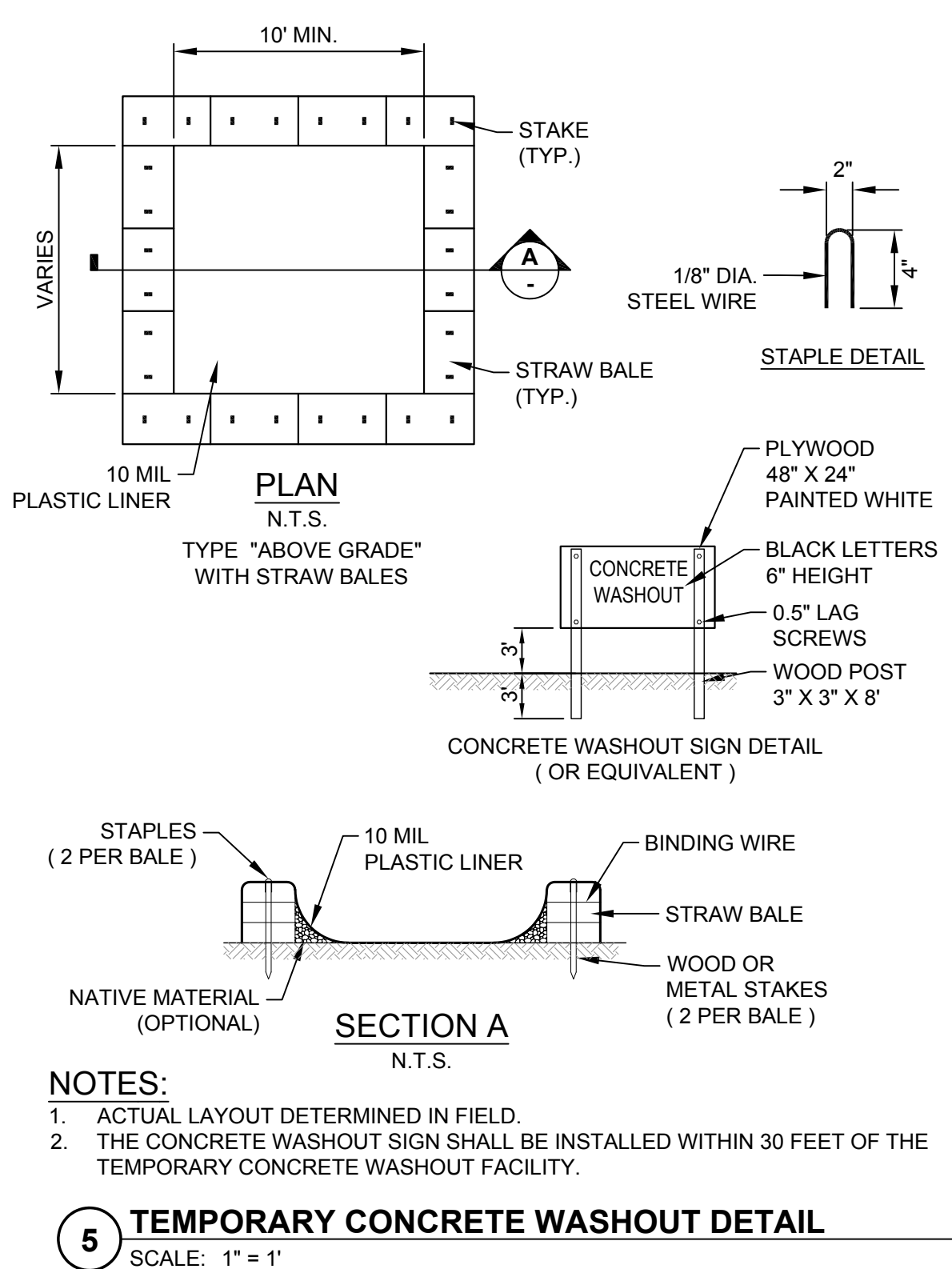
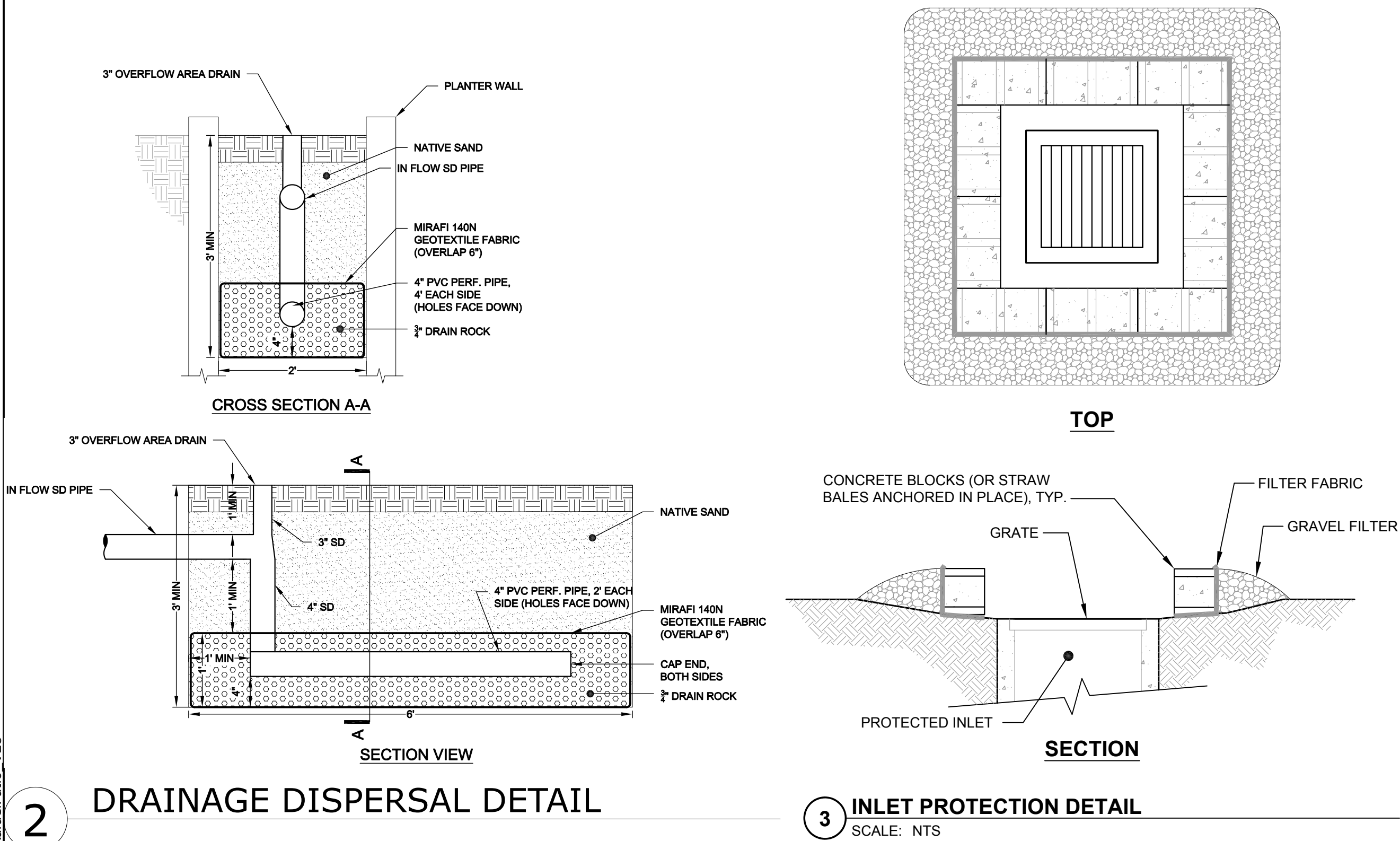
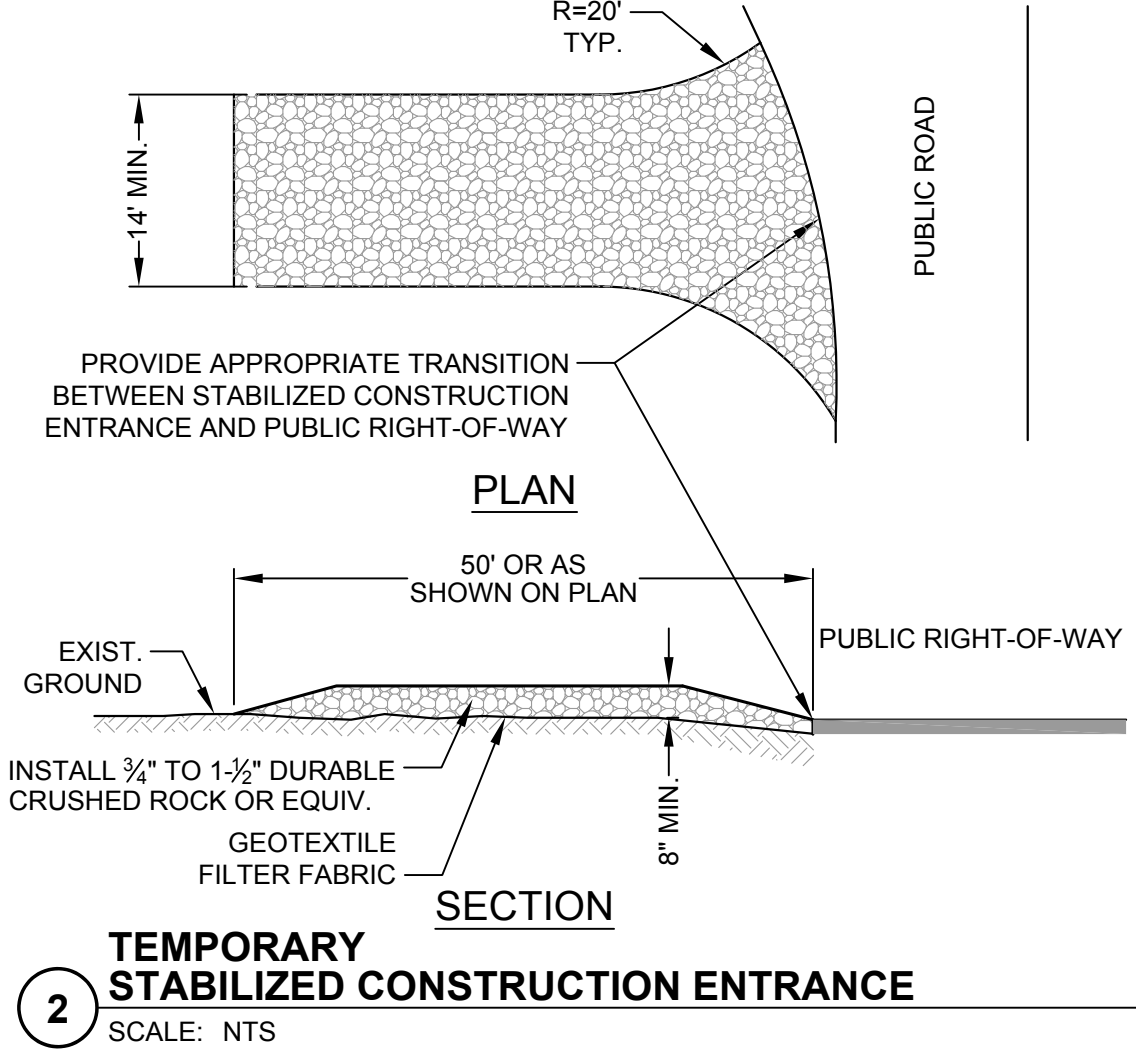
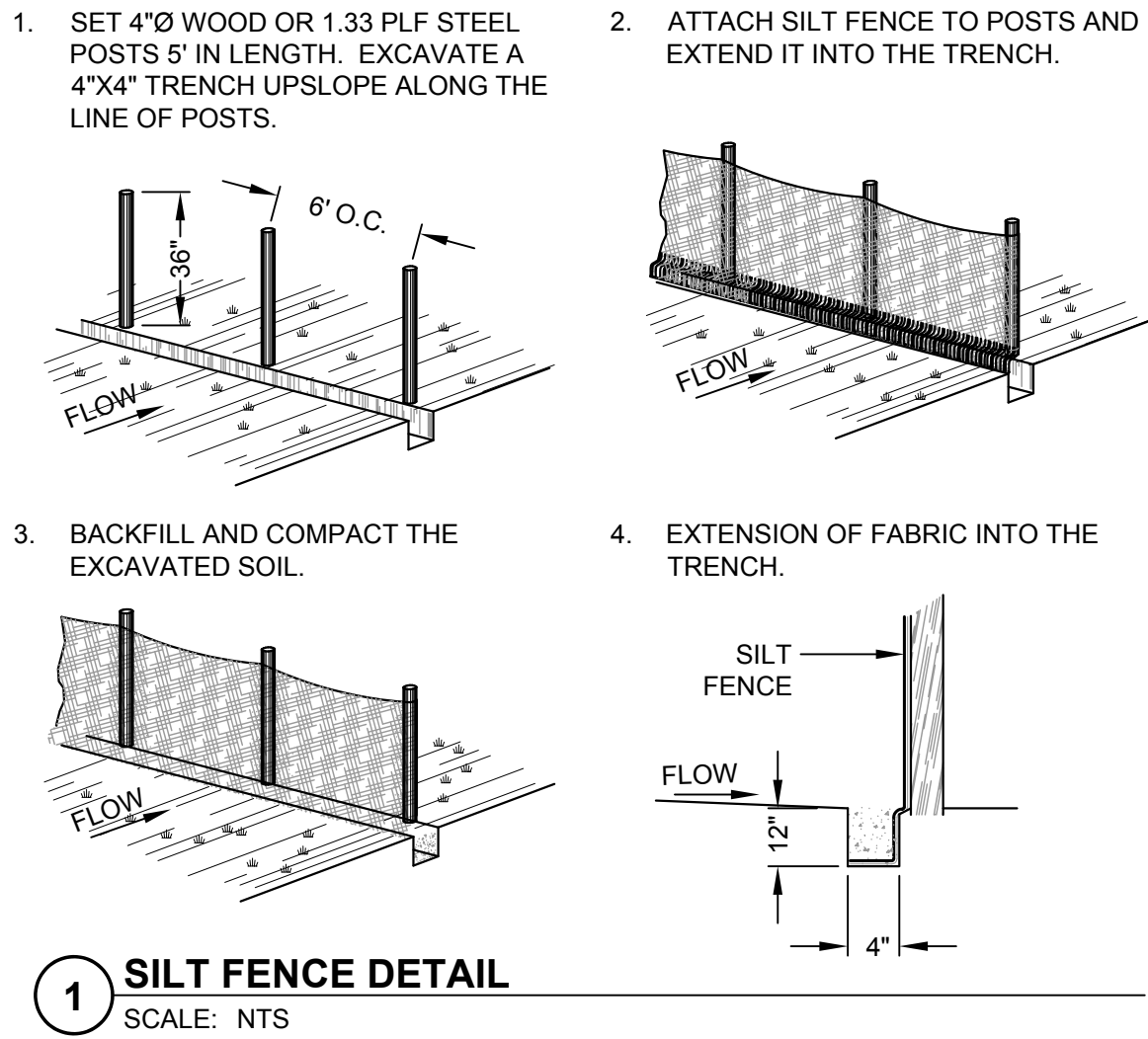
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GRADING,
DRAINAGE, &
EROSION
CONTROL

L210



POLLUTION CONTROL NOTES:

- LOT WILL BE ROUGH GRADED IN ACCORDANCE WITH THE GRADING PLAN PREPARED BY CSW/ST2. FUTURE FINISH GRADING SHALL DIRECT ALL STORM WATER RUNOFF TO THE STREETS OR INLETS SHOWN ON THIS PLAN AND ULTIMATELY TO THE CITY-MAINTAINED STORM DRAIN SYSTEM. ALL STORM WATER FROM THIS SITE IS INTENDBAA. DIRECTED TO THE CITY STORM DRAINS.
- IF SIGNIFICANT SEDIMENT OR OTHER VISUAL SYMPTOMS OF IMPURITIES ARE NOTICED IN THE STORM WATER, CONTACT THE CIVIL ENGINEER IMMEDIATELY.
- CONTRACTOR IS RESPONSIBLE FOR INSPECTION AND RESTORATION OF ALL ASPECTS OF THIS PLAN. SEDIMENT ON SIDEWALKS AND GUTTERS SHALL BE REMOVED BY SHOVEL OR BROOM.
- ALL EMPLOYEES, CONTRACTORS, AND SUBCONTRACTORS ARE RESPONSIBLE FOR CONFORMING TO THE ELEMENTS SHOWN ON THIS PLAN OR RELATED DOCUMENTS. ANY CONTRACTOR PLANNING TO DO WORK ON-SITE SHALL BE RESPONSIBLE FOR OBTAINING AND REVIEWING ALL INFORMATION FROM OWNER PRIOR TO START OF WORK AND EDUCATING ALL OF THEIR EMPLOYEES OR SUBCONTRACTORS AS TO THE CONTENTS OF THIS PLAN SET.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS AND FILING ALL PLANS WITH RELATED AGENCIES ASSOCIATED WITH THEIR WORK. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, PERMITS FOR STORAGE OF HAZARDOUS MATERIALS, BUSINESS PLANS, PERMITS FOR STORAGE OF FLAMMABLE LIQUIDS, GRADING PERMITS, OR OTHER PLANS OR PERMITS REQUIRED BY MARIN COUNTY, THE CITY OF LARKSPUR, OR OTHER AGENCIES. ALL PROPERTY OWNERS, CONTRACTORS, OR SUBCONTRACTORS WORKING ON-SITE ARE INDIVIDUALLY RESPONSIBLE FOR OBTAINING AND SUBMITTING ANY BUSINESS PLANS OR PERMITS REQUIRED BY CITY, STATE OR LOCAL AGENCIES.
- CONTRACTOR MAY RELOCATE STORAGE, DELIVERY, OR WASH-OUT AREAS, TO SUIT THEIR OPERATIONS. RELOCATED LOCATION TO BE SHOWN ON PLANS MAINTAINED AT JOBSITE. CONTACT CIVIL ENGINEER FOR ANY PLAN REVISIONS. PLAN REVISIONS SHALL BE SUBMITTED TO CITY IF REQUESTED. CONTRACTOR TO MAINTAIN SECONDARY CONTAINMENT AS NECESSARY TO PROHIBIT POLLUTION AND TOXIC MATERIALS FROM ENTERING STORM DRAIN.
- AFTER COMPLETION OF THE CURB, GUTTER, AND PAVING, OR CONCRETE V-DITCHES THE SILT FILTERS SHALL BE MODIFIED TO BURLAP SACKS FILLED WITH 3/4" DRAIN ROCK OR OTHER ACCEPTED BMP POSITIONED SURROUNDING EACH CATCH BASIN.

EROSION CONTROL NOTES:

- NO VEHICLES SHALL BE ALLOWED TO TRACK OR SPREAD SOIL FROM THE CONSTRUCTION AREAS ONTO EXISTING PAVED PUBLIC STREETS. ANY VEHICLE OPERATING WITHIN THE PROJECT AREA AND OFF THE PAVED STREET SHALL CROSS A CONSTRUCTION ENTRANCE AS SHOWN HEREIN. THE ENTRANCE MAY BE MODIFIED BY THE CONTRACTOR TO FACILITATE HIS OPERATIONS.
- THE EROSION AND SEDIMENT CONTROL MEASURES WILL BE OPERABLE DURING THE RAINY SEASON, OCTOBER 1ST TO APRIL 30TH. NO GRADING WILL OCCUR BETWEEN OCTOBER 1ST AND APRIL 30TH, UNLESS AUTHORIZED BY THE DIRECTOR OF PUBLIC WORKS.
- CHANGES TO THIS EROSION CONTROL PLAN TO MEET FIELD CONDITIONS WILL BE MADE ONLY WITH THE APPROVAL OF, OR AT THE DIRECTION OF THE OWNER. CHANGES MADE TO SUIT FIELD CONDITIONS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CIVIL ENGINEER AND THE CITY ENGINEER.
- DURING THE RAINY SEASON, ALL PAVED AREAS WILL BE KEPT CLEAR OF EARTH MATERIAL AND DEBRIS. THE SITE WILL BE MAINTAINED SO THAT A MINIMUM OF SEDIMENT-LADEN RUNOFF ENTERS THE STORM DRAIN SYSTEM. THESE PLANS SHALL REMAIN IN EFFECT UNTIL THE IMPROVEMENTS ARE ACCEPTED BY THE CITY, AND ALL SLOPES ARE STABILIZED FROM EROSION.
- STRAW AND TACKIFIER WILL BE APPLIED BY OCTOBER 1ST TO ALL DISTURBED AREAS. ALL EXPOSED SLOPES ADJACENT TO PUBLIC RIGHTS OF WAY SHALL ALSO RECEIVE STRAW AND TACKIFIER. STRAW AND TACKIFIER TO BE APPLIED PER MANUFACTURER'S SPECIFICATIONS AND SHALL BE APPLIED AT A RATE OF 2 TONS PER ACRE MINIMUM.
- PRIOR TO START OF ANY CONSTRUCTION OR DEMOLITION, INSTALL PERIMETER FIBER ROLL.
- ALL BANKS AND ALL GRADED AREAS SHALL BE HYDROSEEDING TO CONTROL EROSION BY OCTOBER 1ST.

URBAN RUNOFF POLLUTION NOTES:

- STABILIZE ALL DENUDED AREAS AND MAINTAIN EROSION CONTROL MEASURES CONTINUOUSLY BETWEEN OCTOBER 1 AND APRIL 30.
- REMOVE SPOILS PROMPTLY AND AVOID STOCKPILING OF FILL MATERIALS WHEN RAIN IS FORECAST. IF RAIN THREATENS, STOCK-PILED SOILS AND OTHER MATERIALS SHALL BE TARPED, AT THE REQUEST OF THE CITY ENGINEER.
- STORE, HANDLE AND DISPOSE OF CONSTRUCTION MATERIALS AND WASTES SO AS TO PREVENT THEIR ENTRY TO THE STORM DRAIN SYSTEM. CONTRACTOR MUST NOT ALLOW CONCRETE, WASHWATERS, SLURRIES, PAINT OR OTHER MATERIALS TO ENTER CATCH BASINS OR TO ENTER SITE RUNOFF.
- USE FILTRATION OR OTHER MEASURES TO REMOVE SEDIMENT FROM DEWATERING EFFLUENT.
- NO CLEANING, FUELING OR MAINTAINING VEHICLES ON SITE SHALL BE PERMITTED IN ANY MANNER THAT ALLOWS DELETERIOUS MATERIALS TO ENTER CATCH BASINS OR TO ENTER SITE RUNOFF.
- USE OF PESTICIDES AND/ OR FERTILIZERS SHALL BE APPLIED AND CONTROLLED TO PREVENT POLLUTION RUNOFF.
- IN THE EVENT GRADING OPERATIONS ARE SUSPENDED BY WEATHER CONDITIONS AND IF THE STORM DRAIN SYSTEM IS INCOMPLETE, INSTALL ADDITIONAL ROCK FILTERS AND OTHER FACILITIES AS DIRECTED BY CITY AND ENGINEER.
- CONTRACTOR TO RELOCATE CONCRETE WASHDOWN, VEHICLE STORAGE DELIVERY, AND NON HAZARDOUS WASTE AREAS AS NECESSARY TO FACILITATE THEIR OPERATION AND PROMOTE POLLUTION CONTROL.
- HYDROMULCH & TACKIFIER MAY BE ELIMINATED WITHIN BUILDING FOOT PRINT IF CONSTRUCTION IS IMMINENT.

2 DRAINAGE DISPERSAL DETAIL

BMP SCHEDULE

	BMP	GENERAL DESCRIPTION
EROSION CONTROL BMPS		
A	PRESERVE EXISTING VEGETATION	EXISTING VEGETATION SHOULD BE PRESERVED AS MUCH AS POSSIBLE. CASQA: EC-2.
B	REVEGETATION	AREAS OF DISTURBED SOIL/VEGETATION SHOULD BE REVEGETATED AS SOON AS PRACTICAL. CASQA: EC-4.
C	SOIL COVER	COVER ALL EXPOSED SOIL WITH STRAW MULCH AND TACKIFIER (OR EQUIVALENT). CASQA: EC-3, EC-5, EC-6, EC-7, EC-8, EC-14, and EC-16.
D	SOIL PREPARATION & ROUGHENING	SCHEDULE CONSTRUCTION ACTIVITIES TO REDUCE EROSION POTENTIAL, SUCH AS SCHEDULING GROUND DISTURBING ACTIVITIES DURING THE SUMMER AND PHASING PROJECTS TO MINIMIZE THE AMOUNT OF AREA DISTURBED.
E	EROSION CONTROL BLANKETS	SCHEDULE CONSTRUCTION ACTIVITIES TO REDUCE EROSION PORTENTIAL, SUCH AS SCHEDULING GROUND DISTURBING ACTIVITIES DURING THE SUMMER AND PHASING PROJECTS TO MINIMIZE THE AMOUNT OF AREA DISTURBED.
F	REVEGETATION	SCHEDULE CONSTRUCTION ACTIVITIES TO REDUCE EROSION PORTENTIAL, SUCH AS SCHEDULING GROUND DISTURBING ACTIVITIES DURING THE SUMMER AND PHASING PROJECTS TO MINIMIZE THE AMOUNT OF AREA DISTURBED.

NOTES:
1. BMP TO BE IMPLEMENTED YEAR ROUND, AS APPROPRIATE, UNTIL PROJECT IS COMPLETE

	BMP	GENERAL DESCRIPTION
SEDIMENT CONTROL BMPS		
H	STABILIZED SITE ENTRANCE	STABILIZE SITE ENTRANCE AND TEMPORARY DRIVEWAY. USE 3 TO 4-INCH CRUSHED ROCK FOR A MINIMUM OF 50 FEET (OR AS FAR AS POSSIBLE) TO PREVENT TRACKING SOIL OFFSITE. THIS CAN BE USED IN CONJUNCTION WITH A TIRE WASH OR RUMBLE PLATES. CASQA: TC-1; TC-3.
I	FIBER ROLLS (E.G. STRAW WATTLES)	USE FIBER ROLLS ALONG CONTOURS OF SHORT SLOPES 3:1 OR FLATTER, KEYED INTO GROUND AT LEAST 3-INCHES DEEP (TYPICALLY 25 FEET APART). USE WILDLIFE-FRIENDLY FIBER ROLLS MADE OF BIODEGRADABLE NATURAL MATERIALS. AVOID USING FIBER ROLLS MADE WITH PLASTIC NETTING OR FIXED APERTURE NETTING. CASQA: SE-5.
J	SILT FENCE	INSTALL SILT FENCE ALONG CONTOURS AS SECONDARY MEASURE TO KEEP SEDIMENT ONSITE AND TO MINIMIZE VEHICLE AND FOOT TRAFFIC BEYOND LIMITS OF SITE DISTURBANCE. SILT FENCING MUST BE KEYED IN. CASQA: SE-1.
K	DRAIN INLET PROTECTION	USE PEA-GRAVEL BAGS, (OR SIMILAR PRODUCT) AROUND DRAIN INLETS LOCATED BOTH ONSITE AND IN GUTTER AS A LAST LINE OF DEFENSE. CASQA: NS-2.
L	TRENCH DEWATERING	FOLLOW MCSTOPPP BMPS FOR TRENCH DEWATERING. CASQA: NS-2; OR CALTRANS: NS-2.

	BMP	GENERAL DESCRIPTION
GOOD HOUSEKEEPING BMPS		
M	CONCRETE WASHOUTS	CONSTRUCT A CONCRETE WASHOUT SITE PLACED AT LEAST 50 FEET AWAY FROM STORM DRAINS, WATERBODIES, OR OTHER DRAINAGES. IDEALLY, PLACE ADJACENT TO STABILIZED ENTRANCE. CLEAN AS NEEDED AND REMOVE AT END OF PROJECT. CASQA: WM-8.
N	STOCKPILE MANAGEMENT	COVER ALL STOCKPILES AND LANDSCAPE MATERIAL AND BERM PROPERLY WITH FIBER ROLLS OR SAND BAGS. KEEP BEHIND SILT FENCE, AWAY FROM WATERBODIES. AVOID USE OF PLASTIC SHEETING WHERE POSSIBLE TO KEEP PLASTIC FROM ENTERING WATERBODIES. CASQA: WM-3.
O	HAZARDOUS MATERIAL MANAGEMENT	HAZARDOUS MATERIALS MUST BE KEPT IN CLOSED CONTAINERS THAT ARE COVERED AND UTILIZE SECONDARY CONTAINMENT, NOT DIRECTLY ON SOIL. CASQA: WM-6.
P	SANITARY WASTE MANAGEMENT	PLACE PORTABLE TOILETS NEAR STABILIZED SITE ENTRANCE, BEHIND THE CURB AND AWAY FROM GUTTERS, STORM DRAIN INLETS, AND WATERBODIES. ALL PORTABLE BATHROOMS SHOULD HAVE OVERFLOW PAN/TRAY (MOST VENDORS PROVIDE THESE). CASQA: WM-9.
Q	EQUIPMENT AND VEHICLE MAINTENANCE	PAVEMENT EQUIPMENT FLUID LEAKS ONTO GROUND BY PLACING DRIP PANS OR PLASTIC TARP'S UNDER EQUIPMENT. CASQA: NS-8, NS-9, AND NS-10.
S	LITTER & WASTE MANAGEMENT	DESIGNATE WASTE COLLECTION AREAS ON SITE. USE WATERTIGHT DUMPSTERS AND TRASH CANS. INSPECT FOR LEAKS. COVER AT END OF EACH WORK DEATE & WHEN RAINY OR WINDY. ARRANGE FOR REGULAR WASTE COLLECTION. PICK UP SITE LITTER DAILY. CASQA: WM-5; OR CALTRANS: WM-5

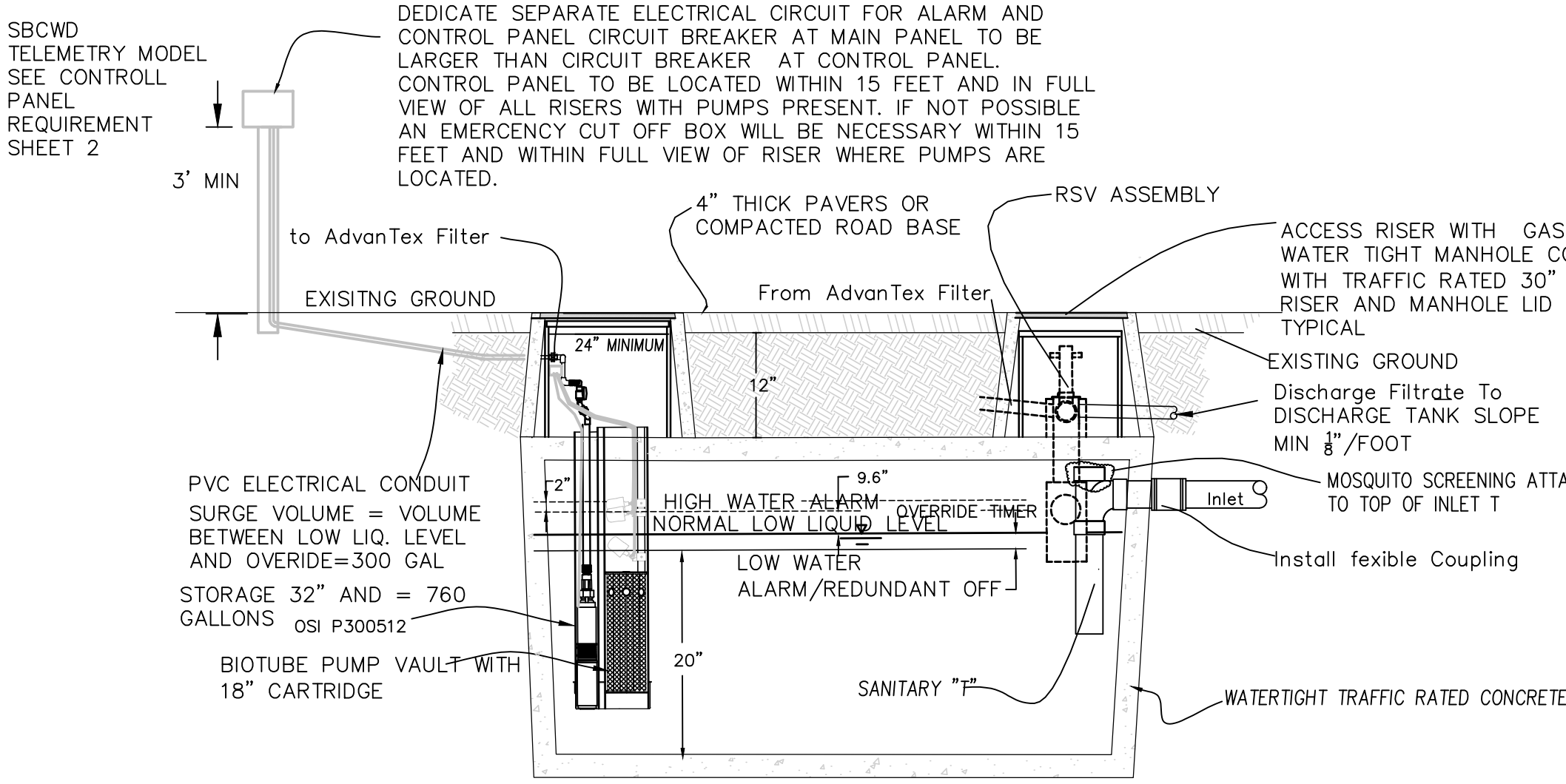
DESIGN REVIEW SET

ISSUE:	DATE:

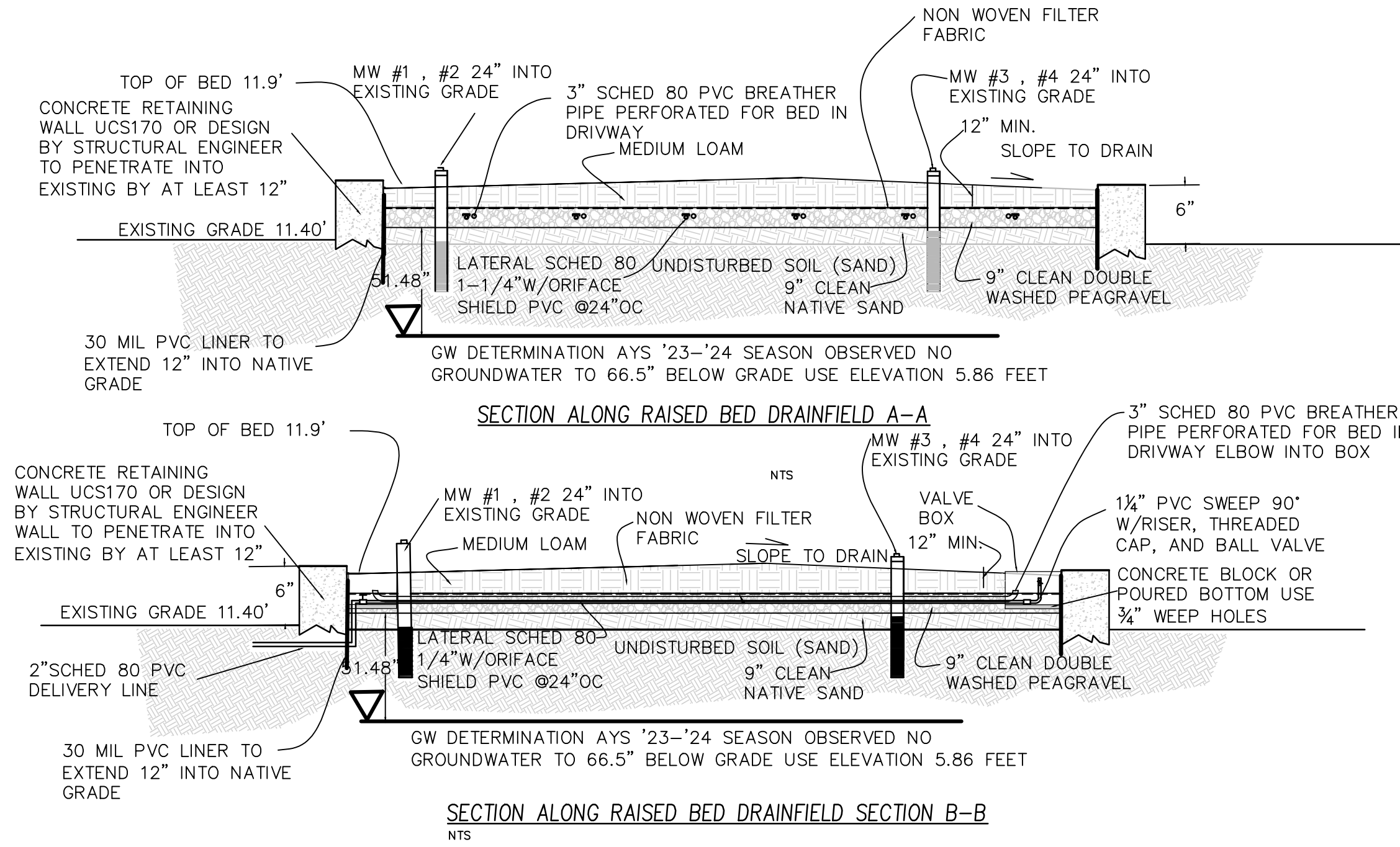
JOB#:	2410
DATE:	8/15/25
DRAWN:	JM, NL
CHECKED:	FE, DS
SCALE:	AS NOTED

No.	DIAMETER	PERF	LENGTH	# OF PERFS"
A1	1 1/2"	1/8"	29	15
A2	1 1/2"	1/8"	29	15
A3	1 1/2"	1/8"	29	15
A4	1 1/2"	1/8"	29	15
A5	1 1/2"	1/8"	29	15
A6	1 1/2"	1/8"	29	15
A7	1 1/2"	1/8"	29	15
B1	1 1/2"	1/8"	29	15
B2	1 1/2"	1/8"	29	15
B3	1 1/2"	1/8"	29	15
B4	1 1/2"	1/8"	29	15
B5	1 1/2"	1/8"	29	15
B6	1 1/2"	1/8"	29	15
B7	1 1/2"	1/8"	29	15

LATERAL SCHEDULE
NOT TO SCALE



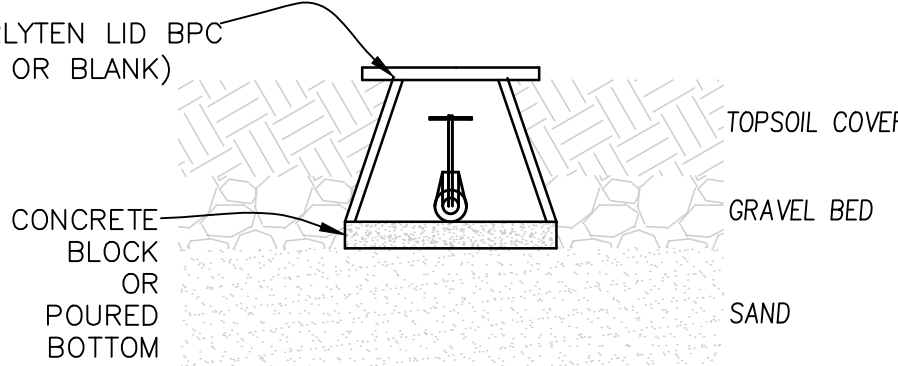
RT#1 1500 GALLON RECIRCULATION TANK AND ADVANTEX DETAIL
N.T.S.



SECTION ALONG RAISED BED DRAINFIELD SECTION B-B
N.T.S.

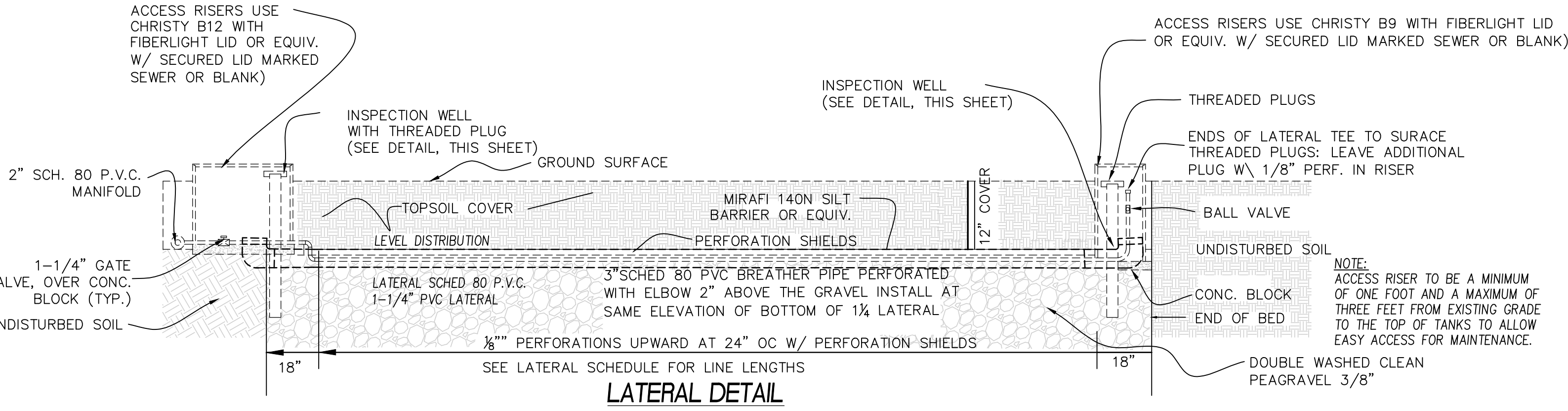
TANK WATER TIGHTNESS TEST

- CAP OR TEST PLUG ALL INLETS AND OUTLETS TO TANK.
- FILL TANK WITH WATER TWO INCHES INTO THE RISER AND MARK WATER LEVEL. SCHEDULE WITH ENGINEER AND NECM 24 HOURS BEFORE FILLING TANK.
- IF AFTER 24 HOURS WATER LEVEL DROPS, TANK MUST BE MADE WATER TIGHT BY APPLYING WATERPROOF SEALER (NOT BITUMINOUS PRODUCT) THOROPLUG, THOROSEAL OR OTHER PORTLAND CEMENT CEMENT PRODUCT.

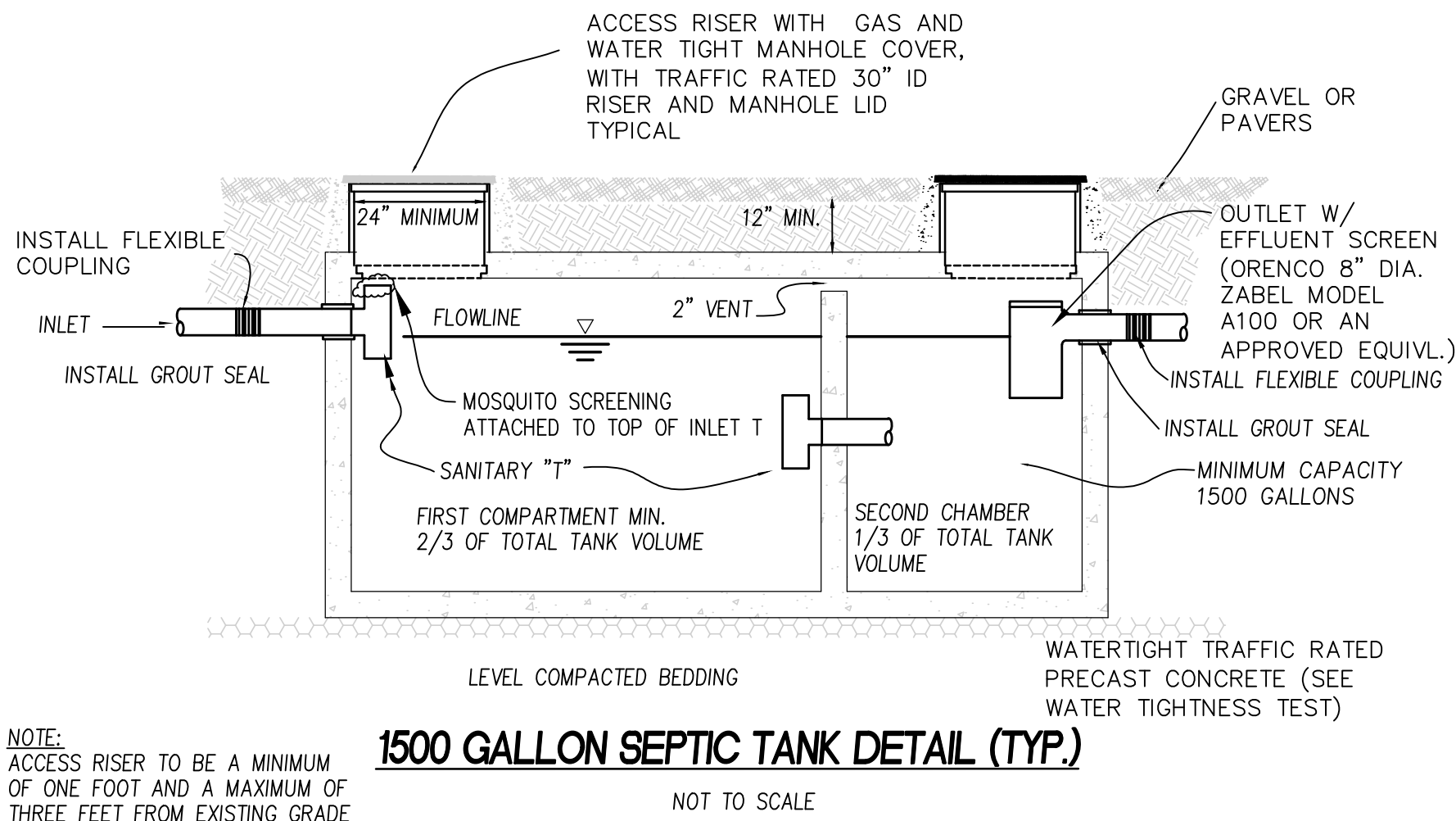


VALVE BOX DETAIL
NOT TO SCALE

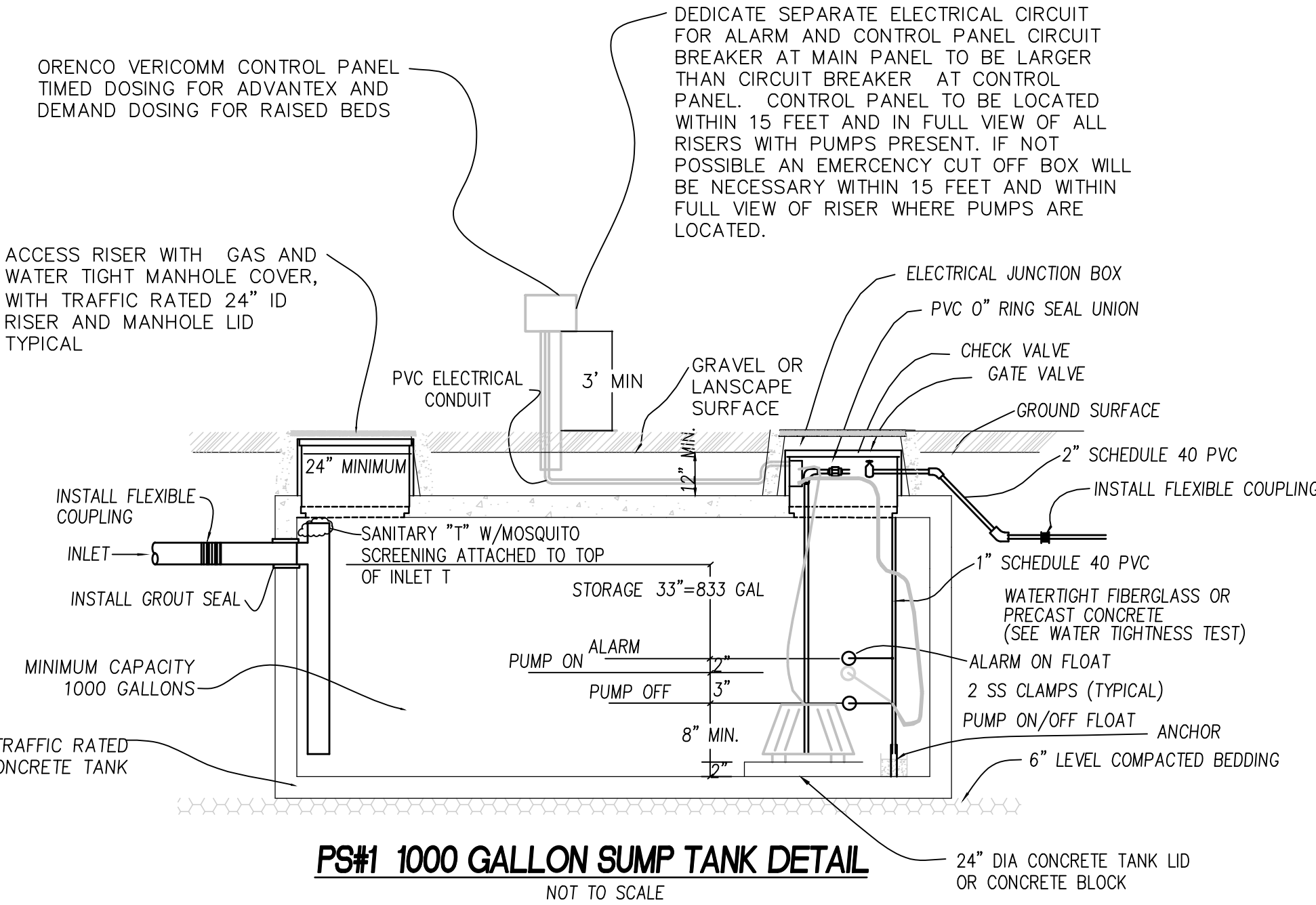
OVERALL PROPERTY
SCALE 1"=20'



LATERAL DETAIL



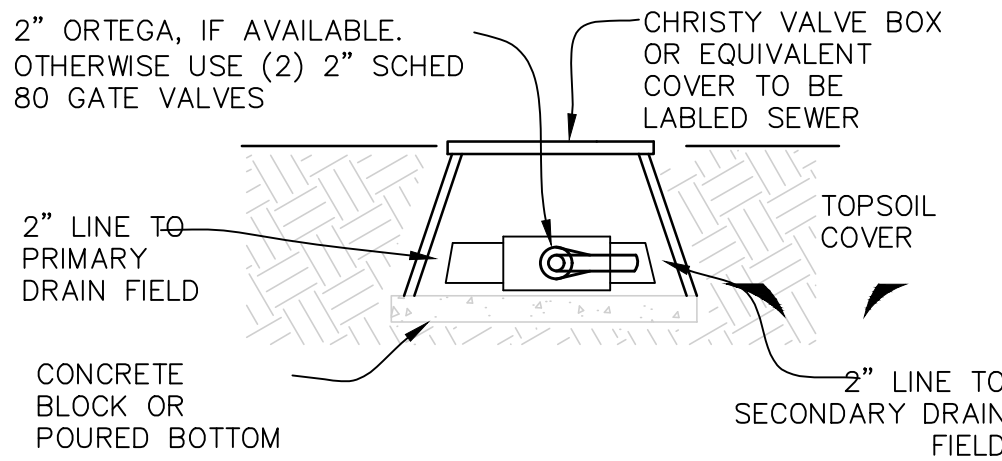
1500 GALLON SEPTIC TANK DETAIL (TYP.)
NOT TO SCALE



PS#1 1000 GALLON SUMP TANK DETAIL
NOT TO SCALE

PUMP REQUIREMENTS PS#1

FROM DISPERSAL TANK TO RAISED BEDS
TOTAL DYNAMIC HEAD = 33 FT
GALLONS PER MINUTE (GPM) = 46
DOSE = 76 GALLONS
OPERATION RANGE = 3.0"
SUMP STORAGE = 833 GALLONS
RECOMMENDED PUMP TYPE GOULDS
MODEL 3885 WE1012H OR APPROVED
EQUAL RECOMMENDED CONTROL PANEL
ORENCO VERICOMM PANEL WITH TIMER
FOR PUMP TO RECIRC TANK AND ON
DEMAND TO DRAIN FIELD



DIVERSION VALVE BOX DETAIL
NOT TO SCALE

GENERAL NOTES

- CONTRACTOR TO SUBMIT A STINSON BEACH WATER DISTRICT CONSTRUCTION PERMIT APPLICATION AND NOTIFY DESIGN ENGINEER 48 HOURS PRIOR TO BEGINNING CONSTRUCTION.
- NOT TO BE USED AS A BOUNDARY SURVEY- SURVEYOR TO STAKE ALL PROPERTY LINES AND EASEMENTS. SURVEY PROVIDED BY MERIDIAN SURVEYING ENGINEERING INC 415-456-5450.
- MAINTAIN 10' SEPARATION FROM ANY SEWAGE LINE TO WATERLINE IF NOT POSSIBLE REROUTE TO MAINTAIN SEPARATION. CROSSING SHALL BE MADE WITH WATER ABOVE SEWER LINE WITH BOTH LINES SLEEVED WITHIN 10' OF EACH OTHER.
- NO CUTS SHALL BE MADE DOWNSLOPE OF DRAINFIELD WITHOUT PERMISSION OF BOTH STINSON WATER AND DESIGN ENGINEER.
- CONSULT DESIGN ENGINEER PERTAINING TO LANDSCAPE SEPTIC SYSTEM.
- NO MATERIAL SUBSTITUTION WITH OUT DESIGN ENGINEER APPROVAL.
- ALL TANKS TO BE WATER TIGHT-SEE WATER TIGHTNESS TEST.
- CONTRACTOR NOT TO OVEREXCAVATE THE DELIVERY LINE TRENCH/S. MAXIMUM DEPTH OF TRENCH IS 24 INCHES.
- THIS SYSTEM CALLS FOR A DIVERSION VALVE/S WHICH ARE TO BE HOUSED IN A SUBSTANTIAL VALVE BOX. THE BOX IS TO BE EXTENDED TO 3 INCHES ABOVE GRADE. THE VALVE SHOULD BE ALTERNATED EVERY SIX MONTHS.
- EROSION PROTECTION SHALL BE PLACED AT A MINIMUM PRIOR TO FINAL INSPECTION.
- ALL SEWER LINES FROM BUILDINGS SHALL BE 3 OR 4 INCH SCHED 80 PVC OR APPROVED EQUIVALENT WITH A MINIMUM SLOPE OF 2 PERCENT. INSTALL CLEANOUTS AT CHANGES IN DIRECTION AND 5 FEET FROM THE OUTSIDE OF THE BUILDING.
- ALL WORK SHALL BE IN CONFORMANCE WITH THESE PLANS AND THE CURRENT TITLE 4 -ONSITE WASTEWATER MANAGEMENT CODE.
- CONTRACTOR TO CONDUCT SQUIRT TEST CONSISTING OF PRESURIZING THE LEACHFIELD WITH THE PUMP AND ADJUSTING THE LEACHFIELD GATE VALVES TO PROVIDE A 5' HIGH STREAM OF WATER THROUGH ORIFICES. THIS IS TO BE REPEATED FOR FINAL CONSTRUCTION INSPECTION BY STINSON WATER.
- CONTRACTOR TO KEEP A PLAN SET WITH ALL CHANGES MARKED UP AT THE JOB SITE AT ALL TIMES. THE CONTRACTOR TO PROVIDE ONE COPY OF THESE CHANGES ON A PLAN FOR PREPARATION OF AS- BUILT DRAWINGS TO GAIN COUNTY FINAL APPROVAL.

CONSTRUCTION INSPECTION NOTES
CONTRACTOR TO NOTIFY DESIGN ENGINEER A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION AND INSPECTION OF THE SYSTEM
PHASE ONE:
1) INSPECT STAKE OUT LOCATION OF LATERALS ALONG CONTOURS, THE SEPTIC AND SUMP TANKS, AND THE SAND FILTER.
2) INSPECT THE LEACHLINE, GRAVEL AND SAND FILTER MEDIA, AND PROVIDE A CERTIFIED COPY OF WET SIEVE ANALYSIS USING ASTM C-117 OR EQUIVALENT.

PHASE TWO:
1) INSPECT LEACHLINE INSTALLATION AND LEVEL VIA OPEN TRENCHES AND INSTALLED INSPECTION WELLS.
2) INSPECT PERFORATION SIZE AND SPACING.
3) INSPECT WATER TIGHTNESS OF ALL TANKS.
4) INSPECT SQUIRT TEST OF LEACHFIELD.
5) INSPECT CONTROL PANEL, FLOATS AND CIRCUIT BREAKER FOR ENTIRE SEPTIC SYSTEM.

PHASE THREE:
1) INSPECT ANY ITEMS LISTED ABOVE WHICH HAVE NOT BEEN OBSERVED YET.
2) INSPECT FINISHED SEPTIC SYSTEM INCLUSIVE OF ANY NECESSARY EROSION CONTROL MEASURES.
3) INSPECT FLOOR PLAN OF STRUCTURE BEING SERVED BY THE SEPTIC SYSTEM. INSPECT, IF APPLICABLE, WHETHER LOW FLOW FIXTURES WERE INSTALLED OR NOT.
4) PROVIDE STINSON WATER WITH BUILDING DEPARTMENT APPROVAL OF PUMP INSTALLATION.



OPERATION AND MAINTENANCE OF A SEPTIC SYSTEM

- INSPECT SEPTIC TANKS AND DRAINFIELD EVERY SIX MONTHS.
- IF SLUDGE OR SCUM BUILDUP IS GREATER THAN 6 TO 8 INCHES HAVE TANK PUMPED. (USUAL FREQUENCY FOR PUMPING IS 3 TO 5 YEARS).
- MINIMIZE THE USE OF GARBAGE DISPOSAL.
- MINIMIZE THE USE OF HARSH CHEMICALS IN LARGE QUANTITIES.
- MINIMIZE THE AMOUNT OF GREASE DISPOSED OF IN SINKS. PACKAGE ALL FOOD WASTES AND DISPOSE OF IN GARBAGE FOR SANITARY LANDFILL.
- MINIMIZE DISPOSAL OF NON-SEWAGE ITEMS SUCH AS SANITARY NAPKINS, CIGARETTES AND OTHERS.
- MAINTAIN ALL PLUMPING. LEAKS SHOULD BE FIXED AS QUICK AS THEY OCCUR.
- MINIMIZE LIQUID LOAD ON THE SYSTEM BY WASHING DISHES AND LAUNDRY IN LARGE LOADS. SPREAD LOADS OVER THE WEEK RATHER THAN DOING ALL LAUNDRY ON A SINGLE DAY.
- PROHIBIT VEHICULAR TRAFFIC AND HOOFED ANIMALS FROM THE SEPTIC SYSTEM AREA.

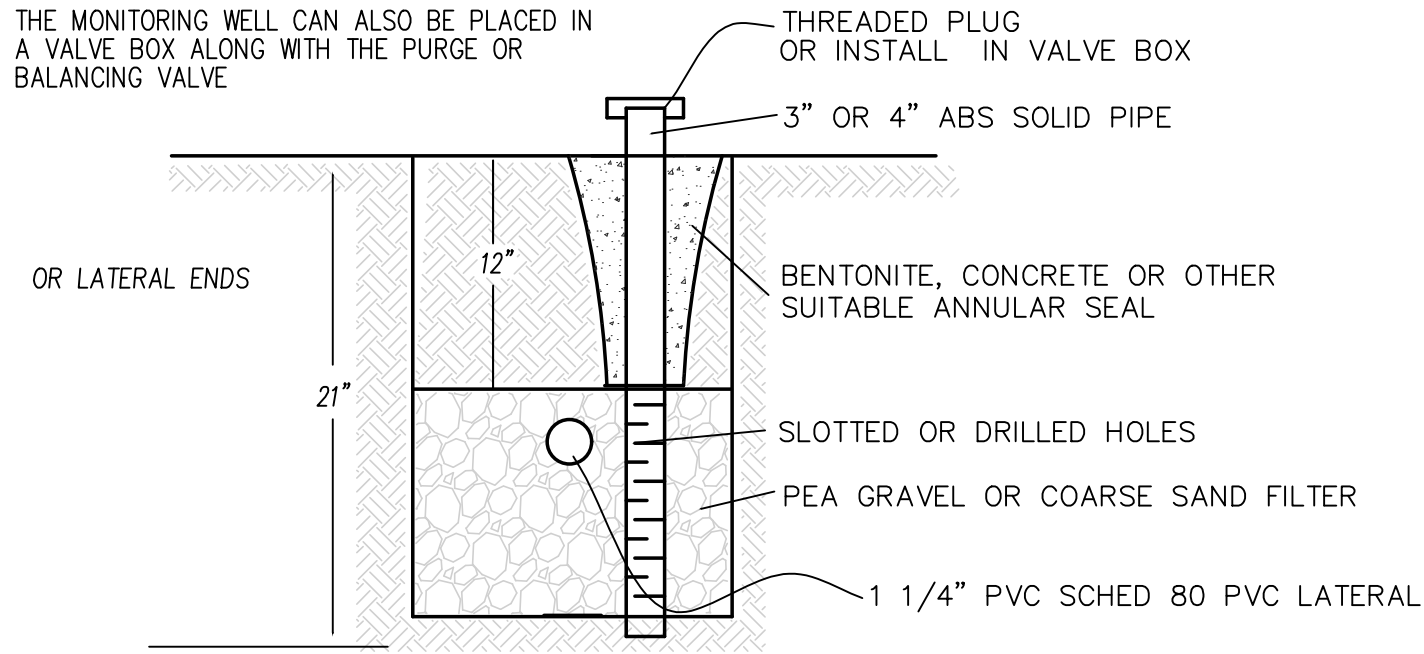
PUMP:
THE PUMP SHALL BE OF THE SIZE AND TYPE INDICATED ON THE PLANS AND SHALL INCLUDE THE FOLLOWING:
1) A HANDS OFF AUTO (HOA) SWITCH.
2) AN AUDIO AND VISIBLE ALARM AND NECESSARY EFFLUENT SENSING DEVICE TO INDICATE A HIGH WATER CONDITION.
3) USE EITHER FILL OR MERCURY TYPE FLOAT SWITCH.
4) SET PUMPING VOLUME AS STATED IN THE PUMP REQUIREMENTS.
5) PUMP TO BE SET A MINIMUM OF 8 INCHES FROM THE BOTTOM OF THE SUMP.

SUMP:
1) THE SUMP SHALL HAVE A WORKING CAPACITY OF 1.0 TIMES THE DESIGN FLOW DESIGNATED. THE CAPACITY SHALL INCLUDE THE DOSE VOLUME AND 24-HOUR STORAGE VOLUME.
2) ACCESS TO BE PROVIDED BY A MINIMUM 24-INCH DIAMETER WATERPROOF AIRTIGHT RISER AND LID SYSTEM.
3) ALL PIPE AND OR ELECTRICAL CONNECTIONS MADE THROUGH THE RISER EITHER TO BE PRECAST INTO THE RISER OR SEALED WITH GASTIGHT COMPRESSION CONNECTORS.

ELECTRICAL FEATURES
THE FOLLOWING ELECTRICAL FEATURES TO BE PROVIDED
1) AN OUTDOOR TYPE CONTROL BOX CONTAINING A FUSED DISCONNECT AND MOTOR PROTECTION SWITCH. SEE THE PUMP REQUIREMENT SECTION OF THE PLANS FOR THE MODEL NUMBER AND REQUIREMENTS.
2) THE CONTROL BOX TO BE MOUNTED ON THE BUILDING BEING SERVED IF WITHIN 20 FEET OF THE SUMP OTHERWISE INSTALL ON A 4"x4" POST THAT IS INSTALLED SECURELY. CONTROL PANEL TO BE VISIBLE FROM THE ROADWAY IF AT ALL POSSIBLE.
3) ALARM AND PUMP TO BE INSTALLED ON SEPARATE CIRCUITS THAT ARE OF SIZE LARGE ENOUGH FOR THE RESPECTIVE USES.
4) ELECTRICAL CONDUIT SHALL BE PVC AND SEPARATE CONDUITS SHALL BE PROVIDED TO POWER PUMP AND FLOATS.

PRESSURE PIPING
1) THE PIPE FROM THE SUMP TO THE DRAINFIELD SHALL BE PVC IN THE SIZE AND SCHEDULE SPECIFIED ON THE PLANS.
2) A UNION SWING CHECK VALVE AND DOUBLE WEDGE GATE VALVE SHALL BE INSTALLED IN THE SUMP CHAMBER IN THIS ORDER AWAY FROM THE PUMP. ALTERNATIVELY THESE ITEMS CAN BE INSTALLED IN A VALVE BOX NEXT TO THE SUMP CHAMBER.
3) CONCRETE THRUST BLOCKS SHALL BE INSTALLED WHEN CHANGE IN PIPE DIRECTION IS 45 DEGREES OR GREATER.

PERMITS
STINSON WATER WILL ISSUE A DESIGN APPROVAL PERMIT AND A CONSTRUCTION PERMIT BEFORE CONSTRUCTION MAY BEGIN. ADDITIONAL PERMIT(S) WILL BE REQUIRED BY BY THE COUNTY'S BUILDING INSPECTION DEPARTMENT FOR PUMP INSTALLATION. UPON FINAL CONSTRUCTION INSPECTION, SIGNOFF OF CONSTRUCTION PERMIT, SUBMITTAL OF DESIGNER CERTIFICATION AND SUBMITTAL OF AS-BUILT DRAWINGS, STINSON WATER WILL ISSUE THE OWTs DISCHARGE PERMIT FOR THE SYSTEM.



TYP. LEACHLINE
INSPECTION WELL
NOT TO SCALE



Revisions:

PREPARED FOR:
9 Rafael Patio, LLC
3047 Fillmore St
San Francisco Ca 94123-4009

RAISED BED / ADVANTEX SYSTEM
9 RAFAEL PATIO
STINSON BEACH, CA
APN 195-065-06 & 08

AYS Engineering Group, Inc
PO Box 5693, Petaluma, CA 94955
Voice (707) 763-6620

Job No.
2024-19
Date
Drawn By:
TKP
Checked By:
TKP
Scale
as shown
Sheet 1 of 2

S2