

WELO CHECKLIST AND CERTIFICATION



Water Efficient Landscape Application Checklist and Certificate

The Town of San Anselmo has adopted the Marin Municipal Water District (MMWD) water conservation ordinance (MMWD Title 13, Chapter 13.02) as its Water Efficient Landscape Ordinance. We have designated MMWD to implement our Water Efficient Landscape Ordinance requirements. All projects that include any new or rehabilitated landscaping and require a permit, plan check or design review must comply with MMWD's water efficient landscape requirements. For assistance, please see MMWD's Landscape Plan Review Requirements email plancheck@marinwater.org or call (415) 945-1497.

PROJECT INFORMATION

PROJECT ADDRESS	PARCEL NUMBER		
31 LINCOLN PARK	000-254-07		
PROPERTY OWNER NAME(S)			
KARIN & JAMES BLOM			
OWNER MAILING ADDRESS	CITY	STATE	ZIP CODE
31 LINCOLN PARK	SAN ANSELMO	CA	94460
APPLICANT EMAIL	APPLICANT PHONE		
shelby@rothlamotte.com	415-699-2316		

MMWD Definition of Landscape: planting areas, turf areas, and water features in a landscape design plan subject to the Maximum Applied Water Allowance calculation. Landscape does not include footprints of buildings or structures, sidewalks, driveways, parking lots, decks, patios, gravel or stone walks, other pervious or non-pervious hardscapes, and other non-irrigated areas designated for non-development (e.g., open spaces and existing native vegetation).

Project is exempt from landscape water efficiency requirements because:

- No new or rehabilitated landscaping is proposed
- Exempt per MMWD Code §13.02.021(5)(b) (explain)

Project includes new or rehabilitated landscaping and landscape plan will be submitted to MMWD for review.

Prior to issuance of a permit, I will:

- Complete materials required by MMWD <http://ca-marinwater.civicplus.com/170/Landscape-Plan-Review-Requirements> and email to MMWD at plancheck@marinwater.org.

- Submit copies of MMWD stamped and approved plans, including any grading plan, and approval letter from MMWD to the building department to include with building permit application (or note as deferred submittal on application).

Prior to project final, I will:

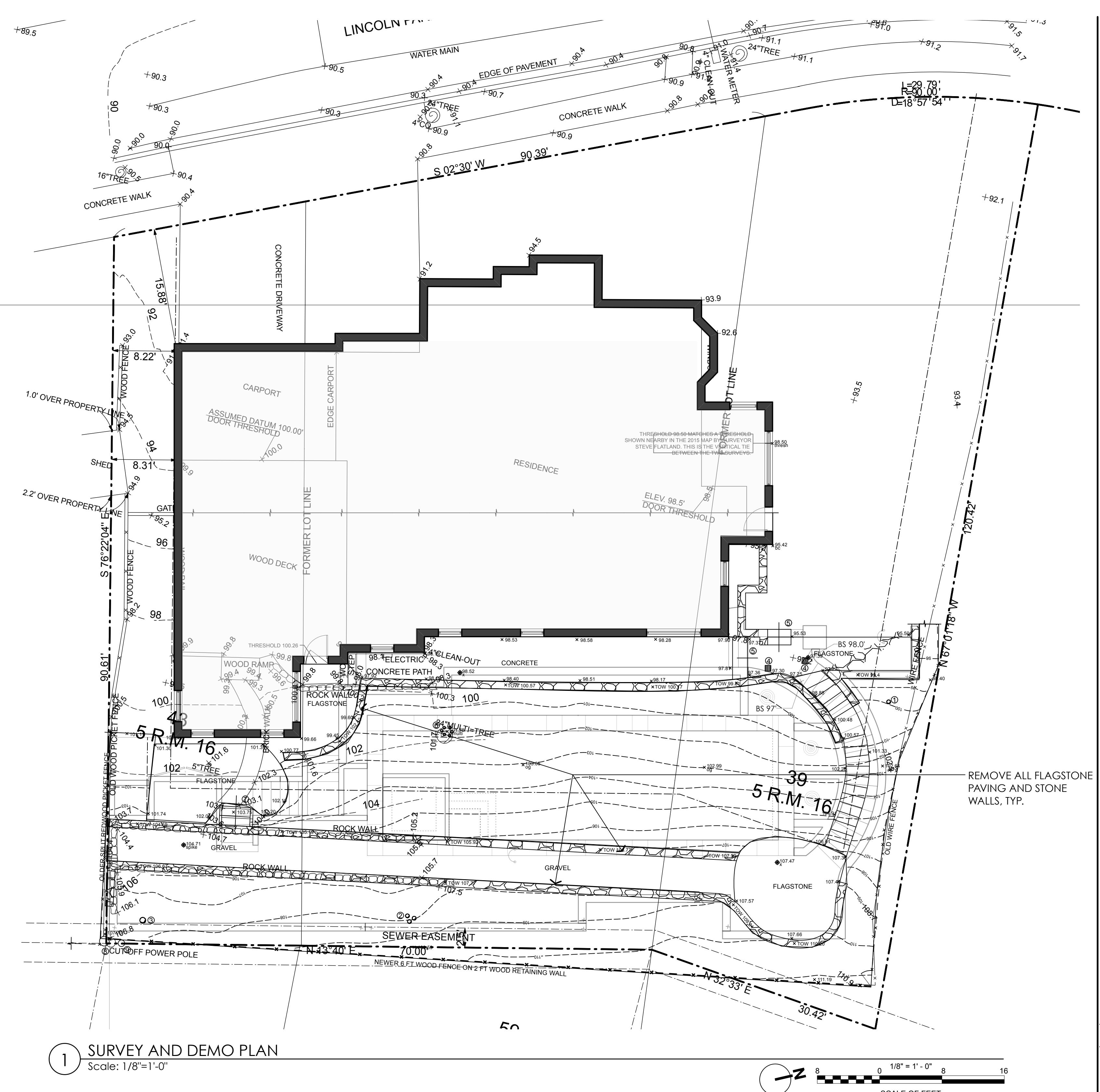
- Install the project as approved by MMWD.
- Email MMWD a Certificate of Completion form and irrigation audit report.
- Schedule a final site inspection with MMWD to approve the installation. Upon passing the final site inspection, receive a final inspection approval letter from the District.
- Provide final inspection approval letter to the building department.

CERTIFICATION

I certify that the information provided on this form is true and correct. I understand that if landscaping is installed at the project site prior to project final the property owner shall be subject to the Marin Municipal Water District (MMWD) Water Efficient Landscape Ordinance requirements and the Town of San Anselmo will hold final inspection and/or occupancy until the project complies with the Water Efficient Landscape Ordinance.

SIGNATURE
X *Susan MPA*

DATE
3/22/22



ISSUED FOR PERMIT
L0.1
DATE: 04/06/2022
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DESIGNED BY SL
DRAWN BY GAR
CHECKED BY SL

SITE SURVEY &
DEMOLITION
WELO CERTIFICATION

Date: 4/8/22
File name: Biom Plan.vwx

BLOM RESIDENCE
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Landscape Architecture
CONSULTANT

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Roth | LaMotte
Landscape Architecture

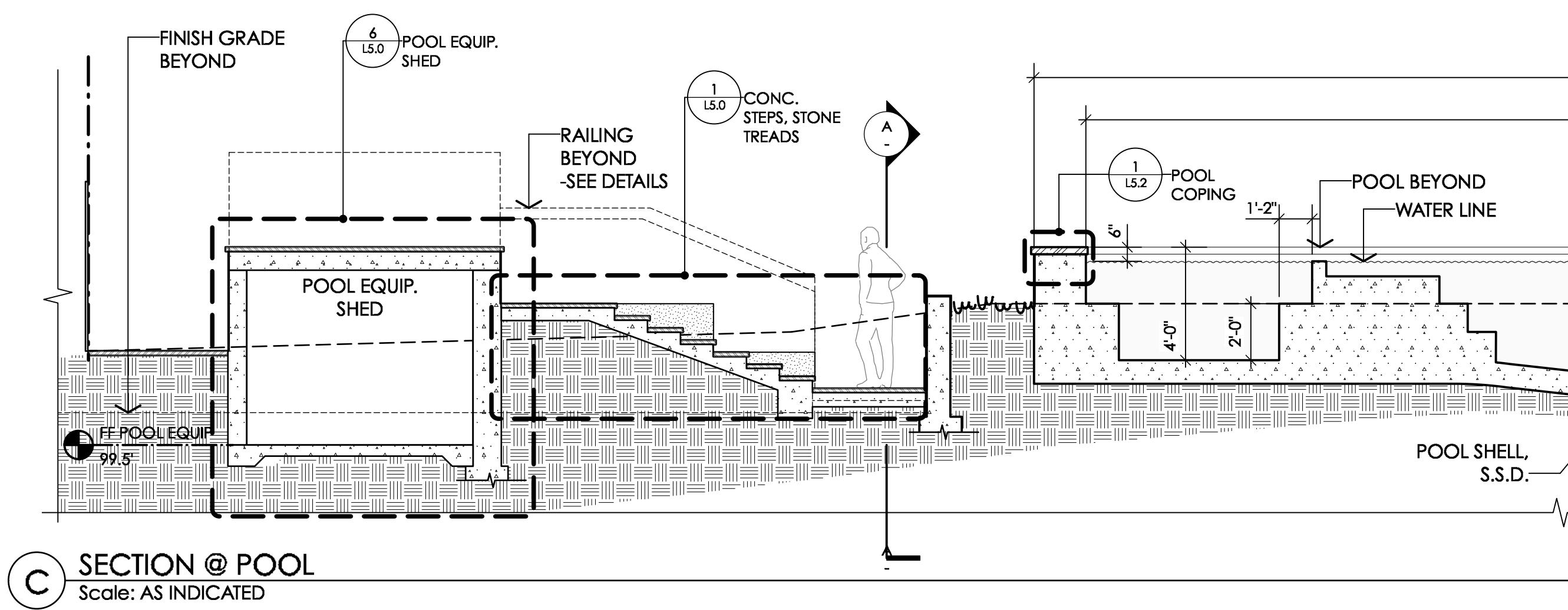
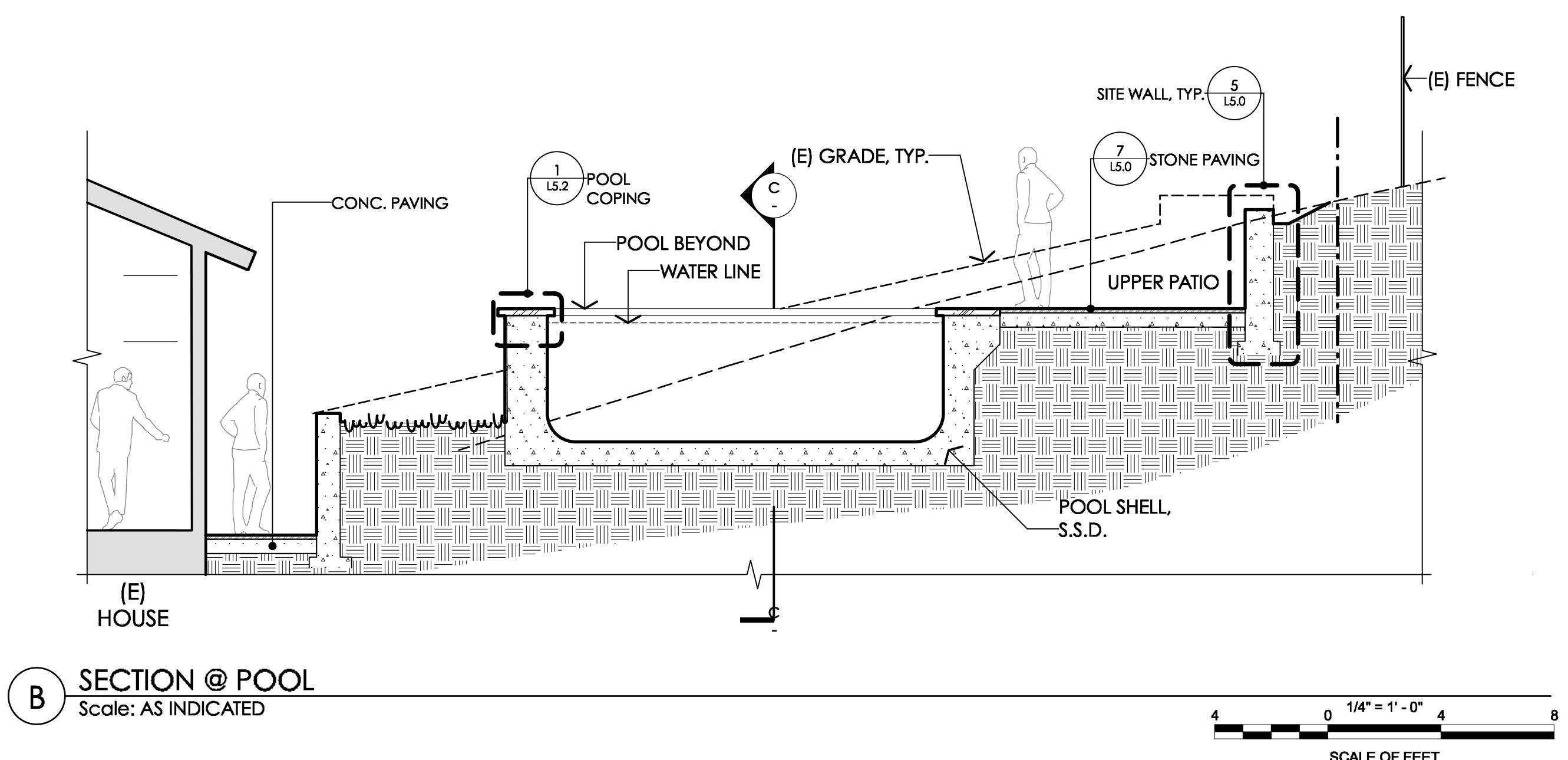
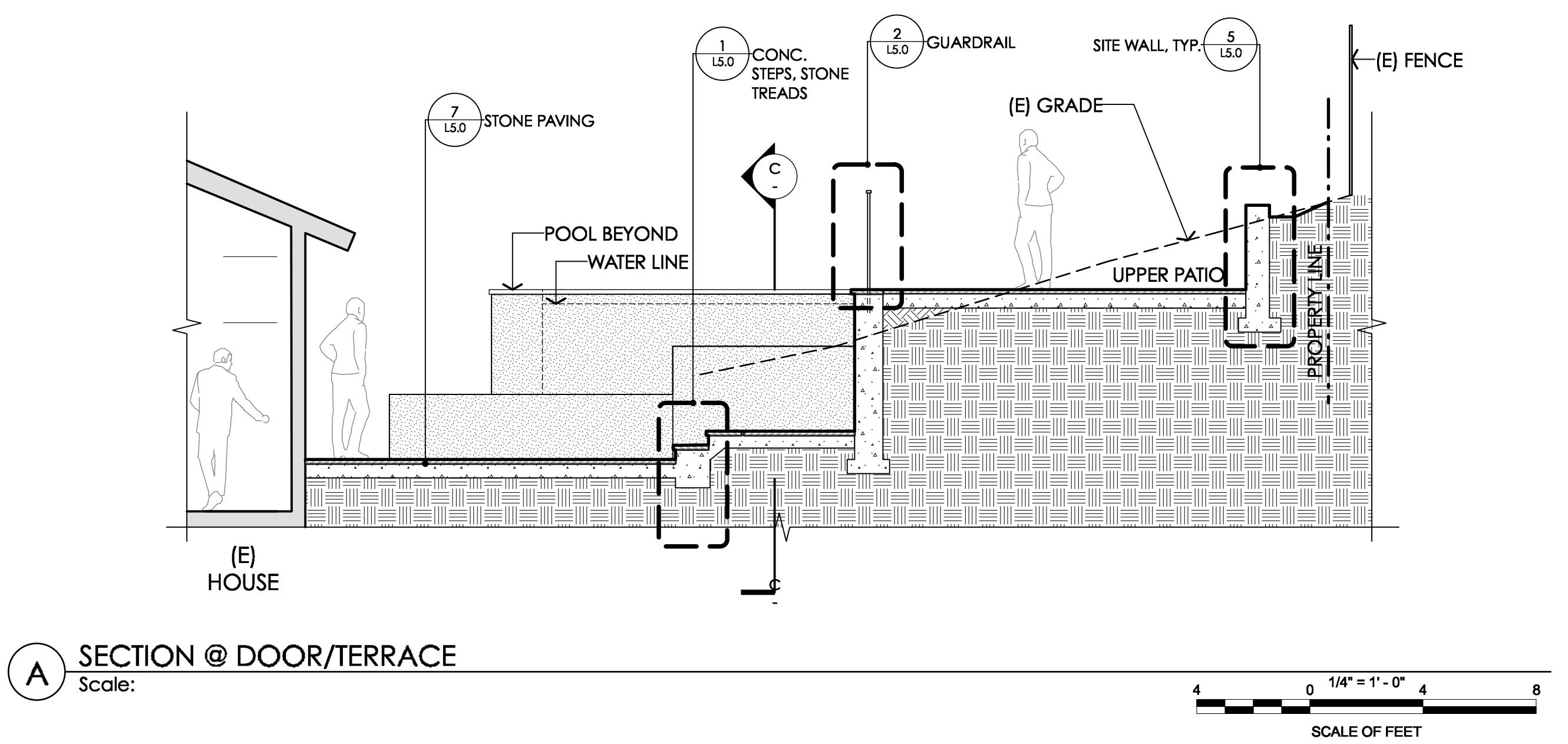
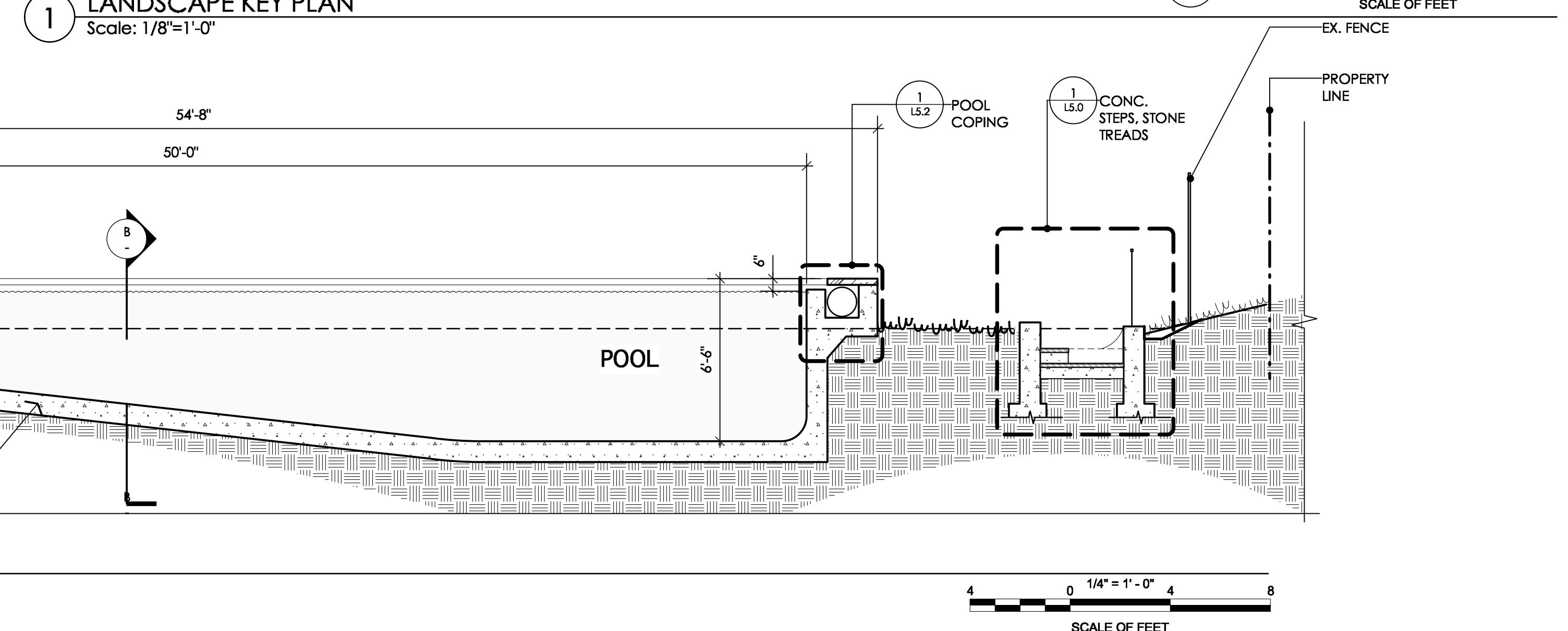
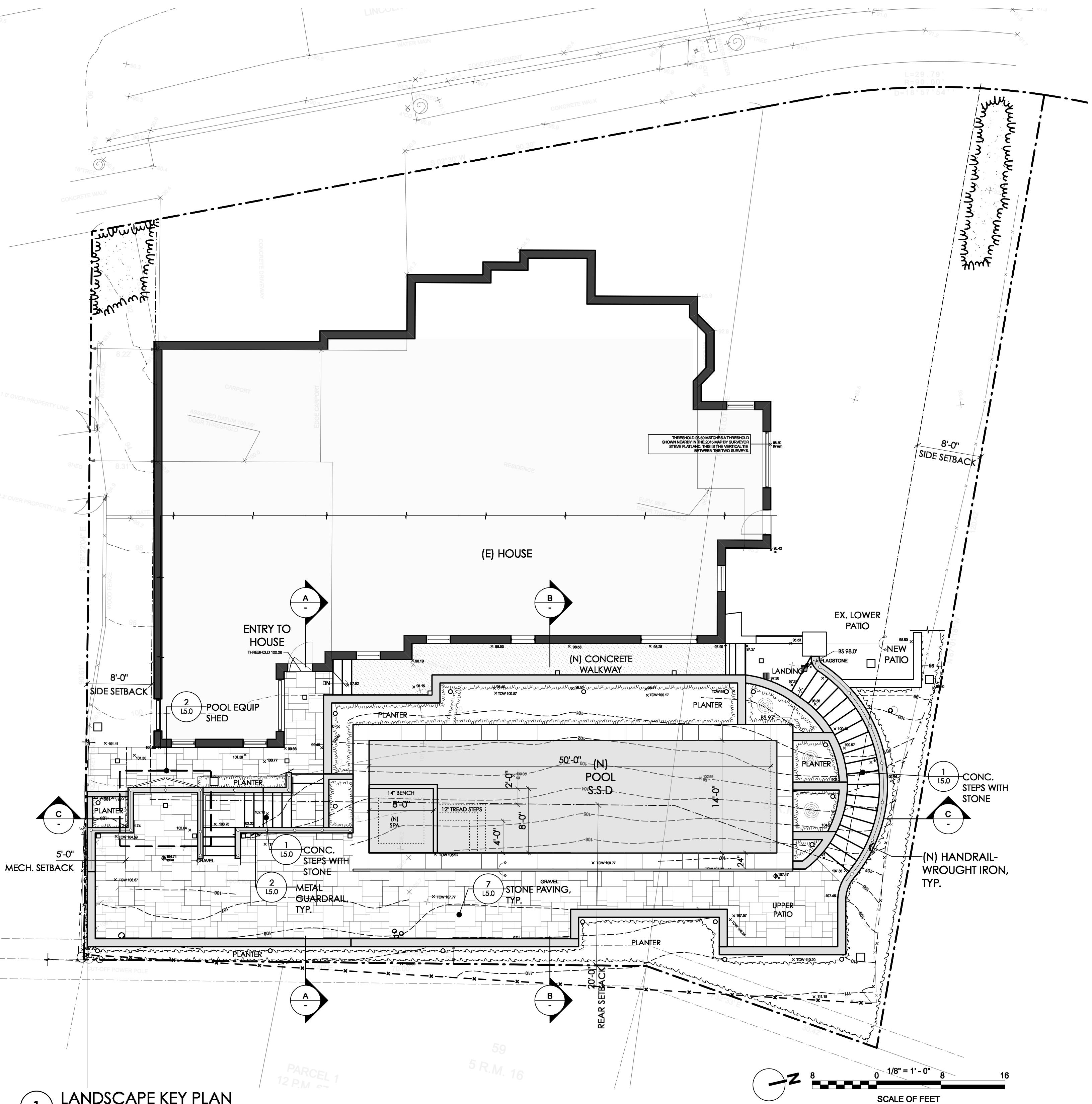
36 manor road
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gary@rothlamotte.com
tel 415.451.8211
fax 415.482.7609

CONSULTANT

AYOUT KEY PLAN ND SECTIONS

DATE:
04/06/2022
SCALE
AS SHOWN
DESIGNED BY
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DRAWN BY
GAR
CHECKED BY
L

Date: 4/8/22
File name: Blom Plan.vwx



GRADING & LAYOUT PLAN

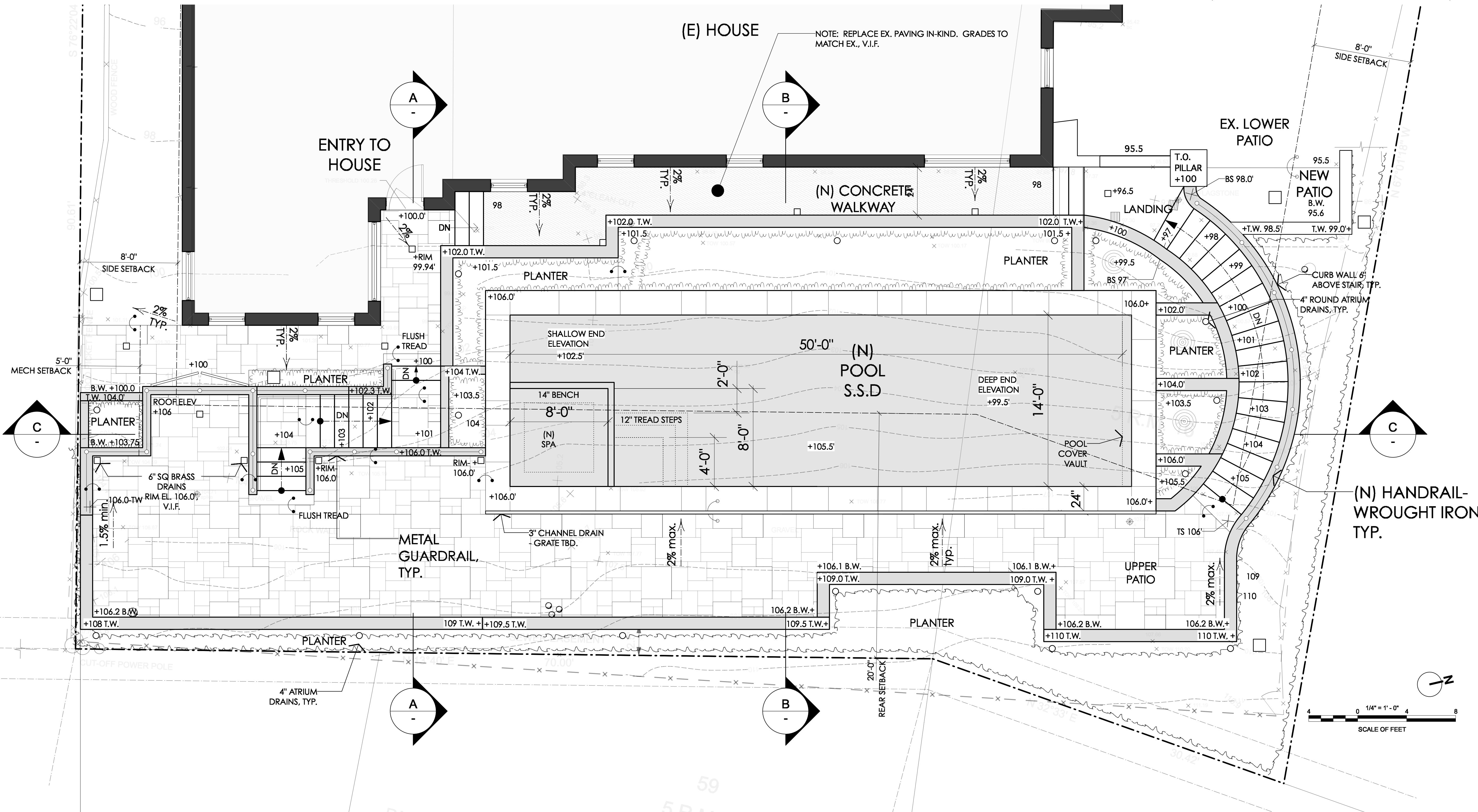
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EXCAVATION, IMPORT FILL AND GRADING NOTES

SEE CIVIL PLANS GRADING AND DRAINAGE
SEE GEOTECHNICAL REPORT FOR ALL SPECIFIC REQUIREMENTS.
THE FOLLOWING NOTES ARE GENERAL GUIDELINES ONLY

- CUT OR FILL TO MEET SUB GRADES NECESSARY TO ACHIEVE ELEVATIONS INDICATED.
- SCARIFY NATIVE SUB GRADE 3"-6" PRIOR TO PLACING ANY FILL AS REQUIRED BY GEOTECHNICAL REPORT AND FIELD REVIEW.
- LANDSCAPE ARCHITECT AND GEOTECHNICAL ENGINEER TO REVIEW AND APPROVE ANY FILL TO BE USED IN PLANTED AREAS.
- GEOTECHNICAL ENGINEER TO REVIEW AND APPROVE FILL TO BE USED AS SUB GRADE.
- PREPVENT CONTAMINATION OF APPROVED FILL.
- FILL MATERIAL TO BE PLACED IN MAXIMUM 6" LIFTS.
- MOISTURE CONDITION FILL AND EXISTING SUB GRADE IN ORDER TO OPTIMIZE COMPACTION AS APPROVED BY GEOTECHNICAL ENGINEER.
- CONDITION FILL SO THAT THE WATER CONTENT IS TO A POINT AT WHICH THE SOIL CAN BE COMPACTION TO A MAXIMUM DRY UNIT WEIGHT BY A GIVEN COMPACTIVE EFFORT.
- FILL BENEATH PAVING AND WALLS TO BE COMPRISED OF CLEAN MATERIAL CONTAINING NO TOXIC RESIDUE, NO ORGANIC MATERIAL, GARBAGE, PLASTICS, METAL OR ANY MATERIAL DETERIORAL TO INTENT OF THE FILL LAYER. NO ROCKS OR PIECES OF CONCRETE LARGER THAN 4" ARE PERMITTED.
- DO NOT BACKFILL/COMPACT ON OR AGAINST STRUCTURAL CONCRETE UNTIL THE 7-DAY CONCRETE STRENGTH HAS BEEN ATTAINED AND IT IS APPROVED BY STRUCTURAL ENGINEER.
- DO NOT COMPROMISE OR OTHERWISE DAMAGE THE WALL BACKDRAINAGE OR THE WATERPROOFING OF THE BUILDING FOUNDATION AT ANY TIME.
- FILL IN PLANTING AREAS TO BE A SUITABLE HORTICULTURAL MATERIAL CONTAINING NO TOXIC RESIDUE, GARBAGE, PLASTICS, METAL OR OTHER MATERIAL DETERIORAL TO PLANT GROWTH. SEE SOIL PREPARATION SPECIFICATIONS.
- TRENCHING FOR UTILITIES, IRRIGATION AND DRAIN LINES TO BE DONE TO DEPTHS REQUIRED BY GOVERNING CODES.
- COMPACT BACKFILL AS REQUIRED PER GEOTECHNICAL REPORT.
- COORDINATE AND VERIFY DRAIN LOCATIONS AND ELEVATIONS IN FIELD. FINAL RIM ELEVATIONS AND ADJACENT GRADES ARE TO BE DESIGN-BUILD AND VERIFIED IN THE FIELD BY THE CONTRACTOR. CONTRACTOR TO NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCIES FROM THE APPROVED PLANS PRIOR TO PLACEMENT OF STONE, CONCRETE OR BASE ROCK ASSOCIATED SUB-BASE MATERIALS. PROVIDE SAMPLES OF ALL DRAIN INLET GRATES FOR APPROVAL BY OWNER PRIOR TO PURCHASE OR INSTALLATION.
- NOTIFY LANDSCAPE ARCHITECT IF DRAIN LOCATION/ELEVATION CONDITIONS OR PROPOSED FINISH GRADES CANNOT BE MET OR REQUIRE ADJUSTMENTS.
- CONNECT TO EXISTING DRAINAGE SYSTEM AS CONFIRMED IN THE FIELD. COORDINATE WITH CIVIL ENGINEERING PLANS.
- REVIEW DRAIN LINE AND OUTLET LOCATION WITH CONSULTING GEOTECHNICAL ENGINEER IN THE FIELD PRIOR TO EXCAVATION WITH PERIODIC INSPECTIONS AND APPROVALS PTO ANY BACKFILLING ACTIVITY.
- ALL GRADING AND DRAINAGE SHALL MEET THE REQUIREMENTS OF THE GEOTECHNICAL REPORT AND ASSOCIATED CODE REQUIREMENTS.



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Roth LaMotte
Landscape Architecture

CONSULTANT

CONSTRUCTION DETAILS

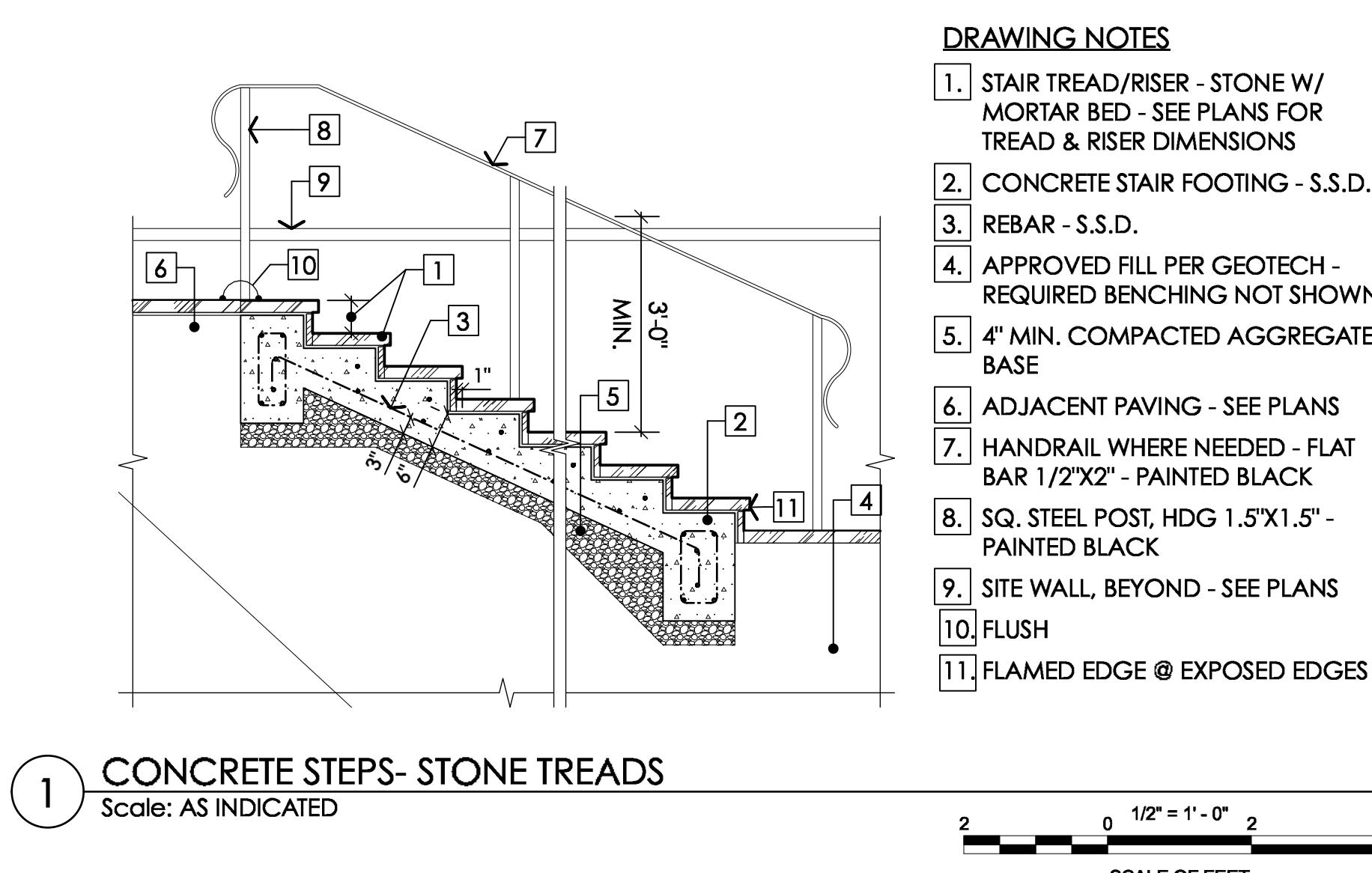
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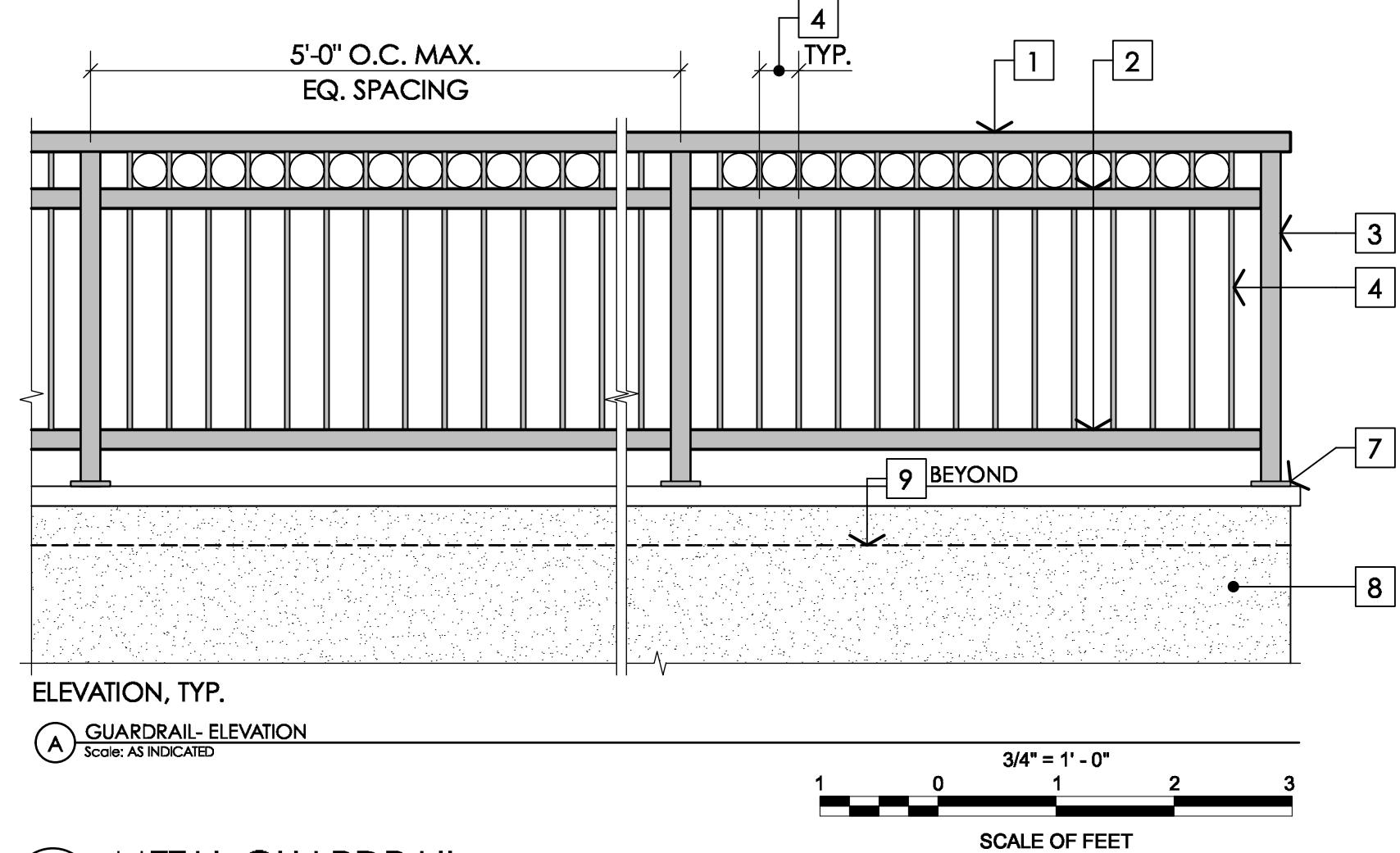
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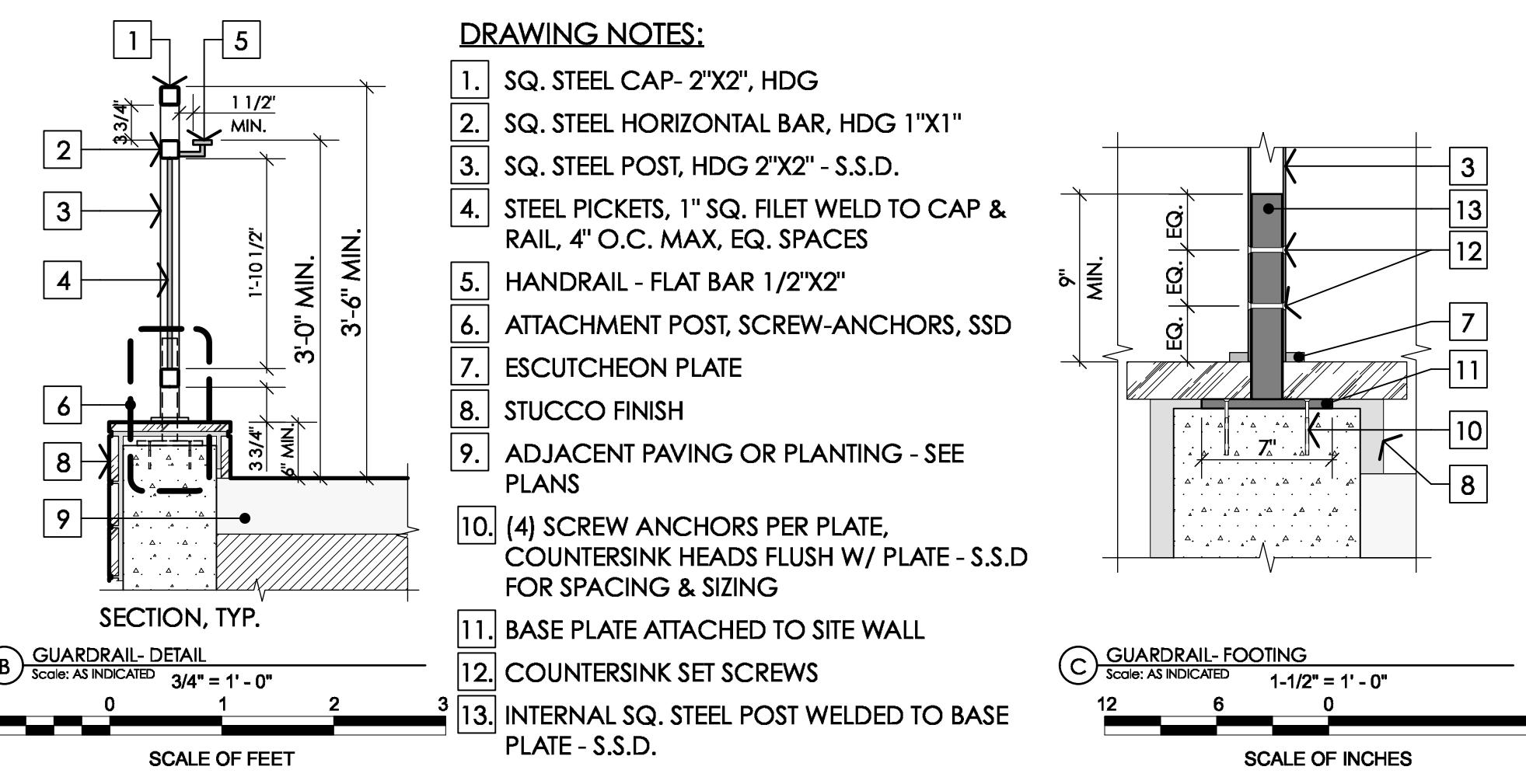
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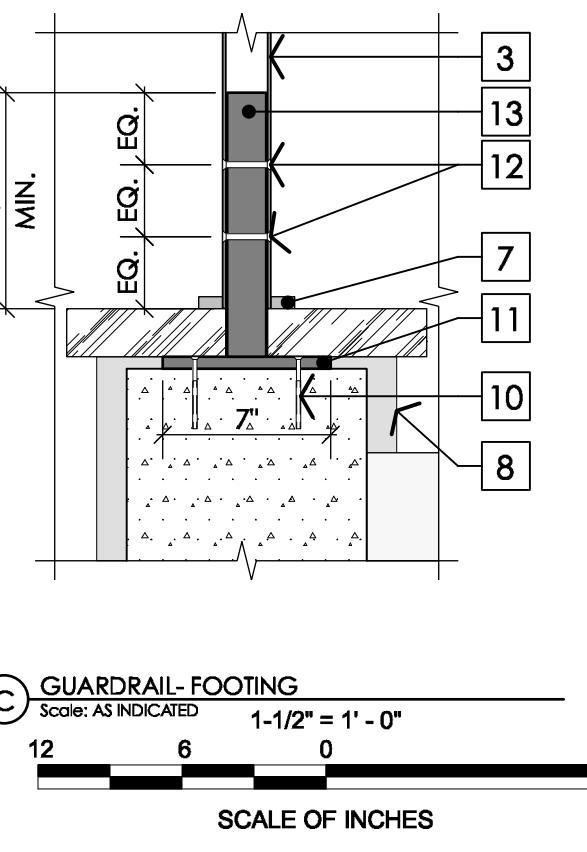
1 CONCRETE STEPS- STONE TREADS



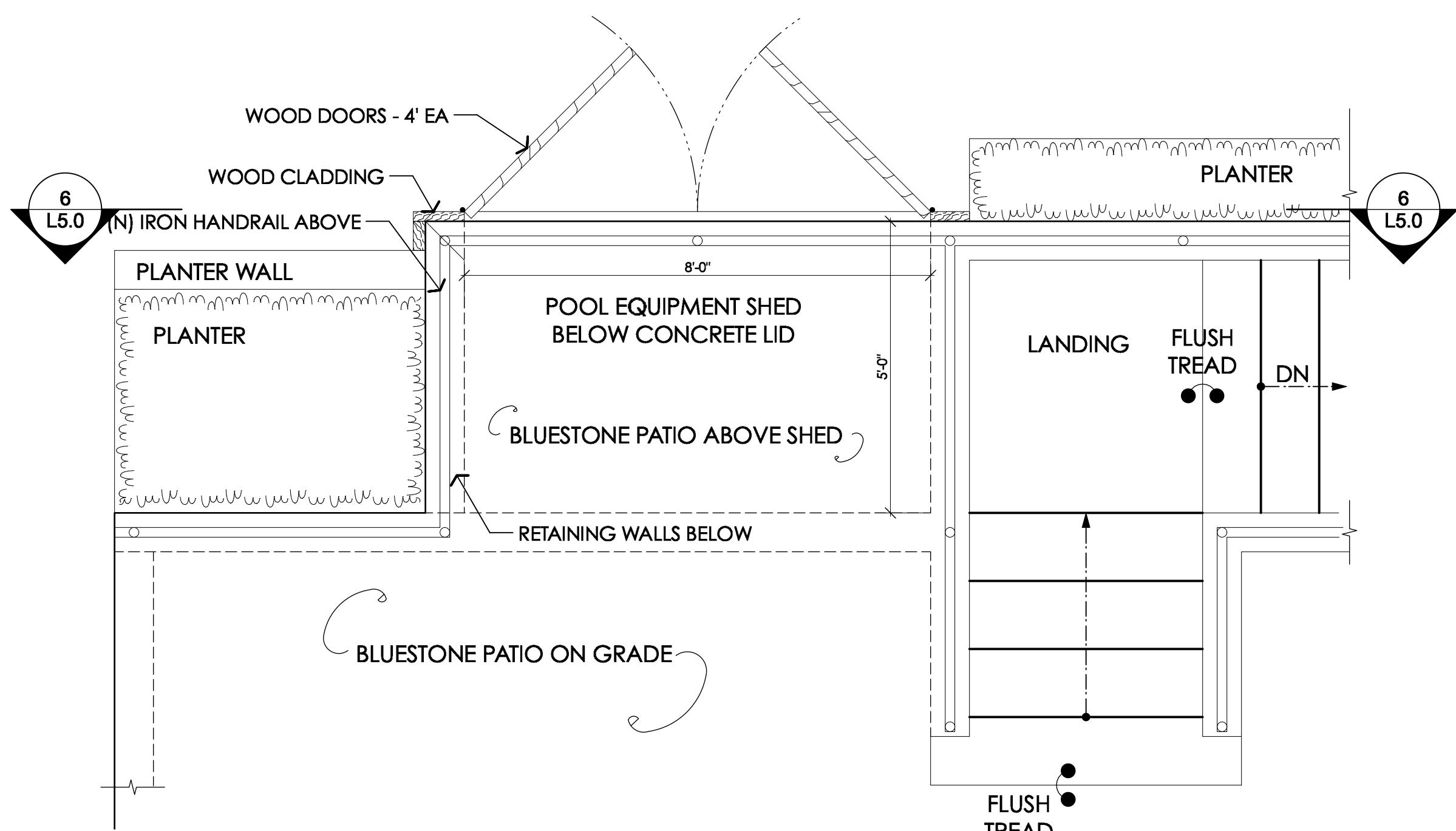
2 METAL GUARDRAIL



B GUARDRAIL- DETAIL

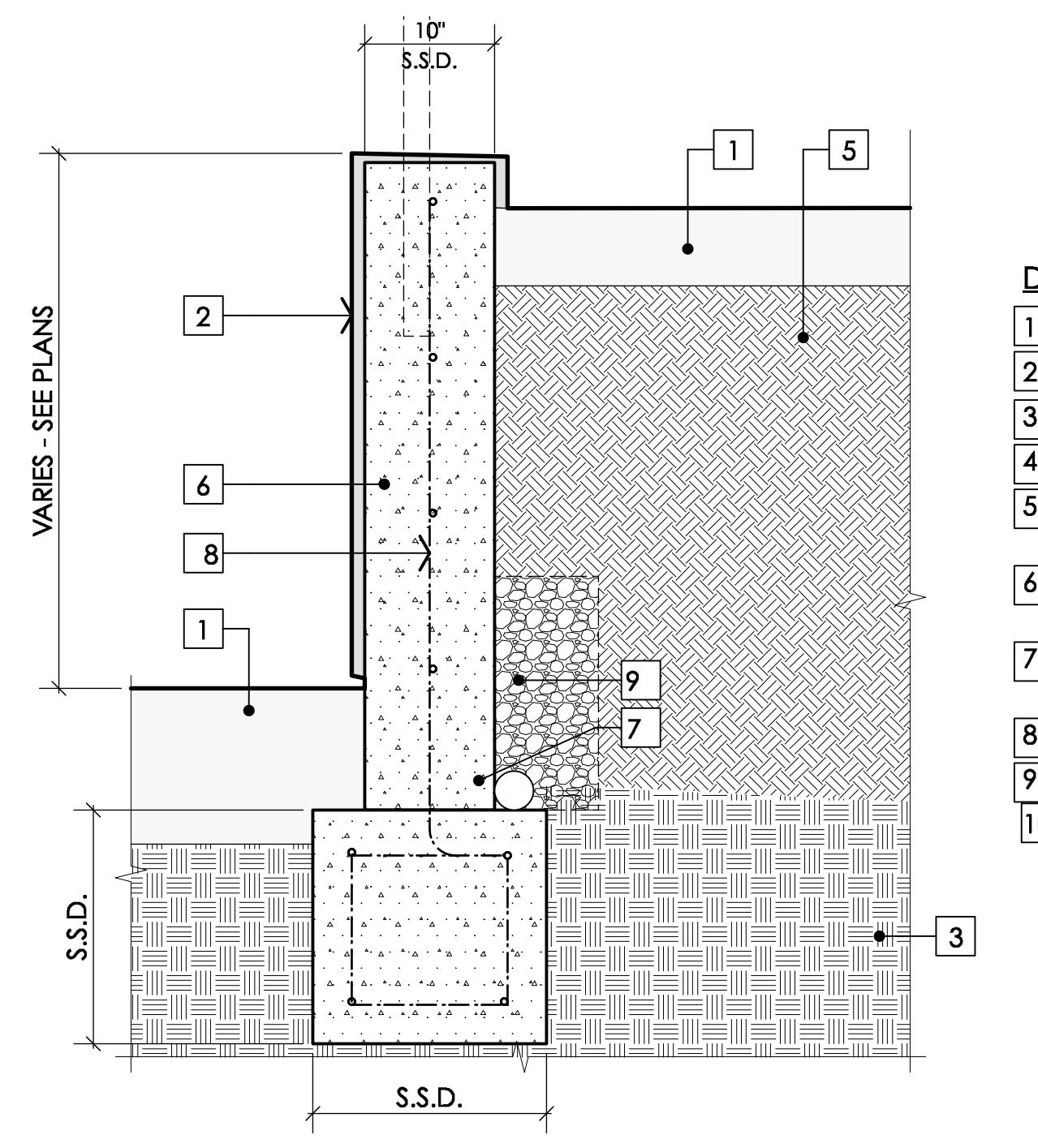


C GUARDRAIL-FOOTING

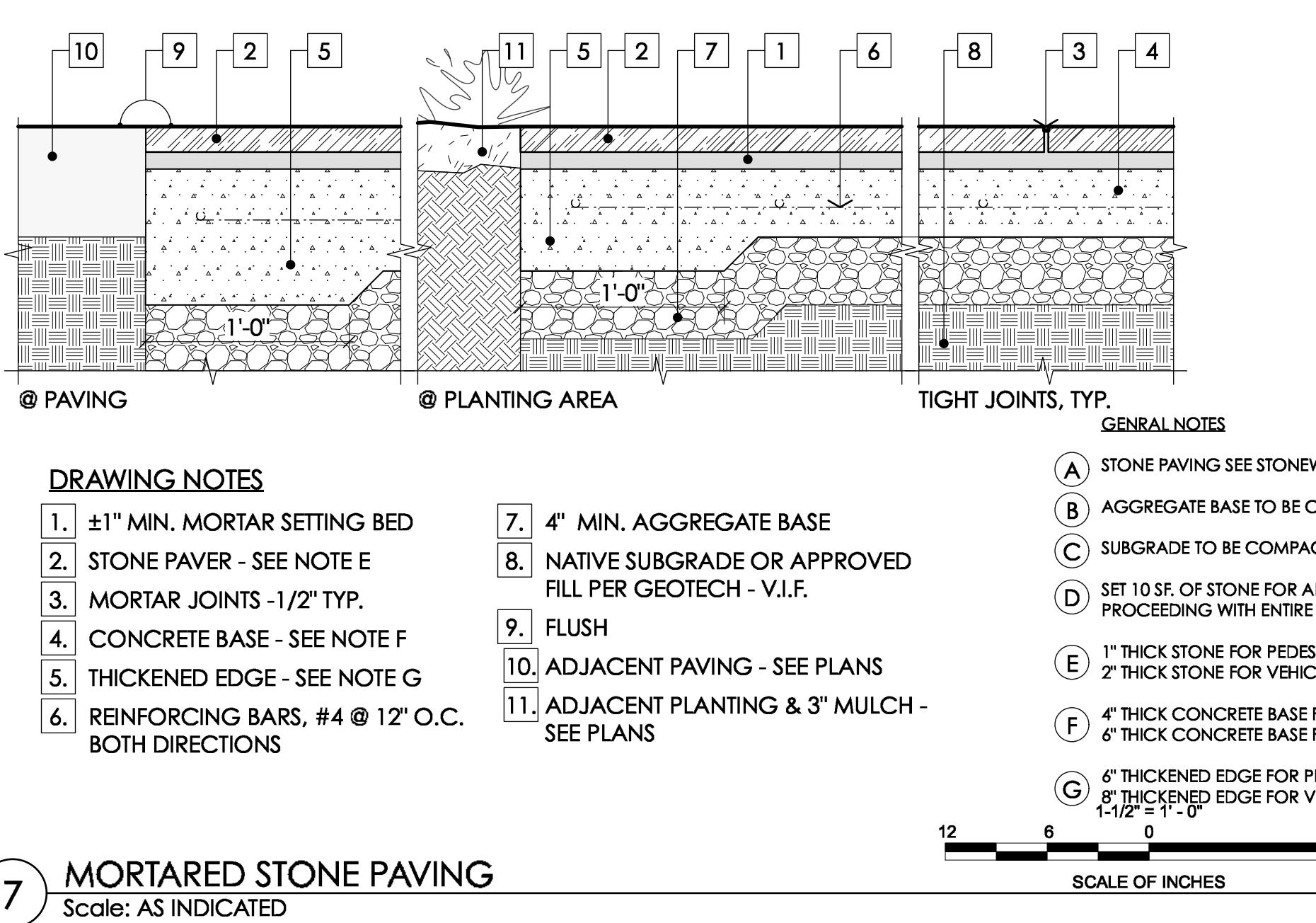


3 POOL EQUIPMENT SHED W/ PATIO ABOVE PLAN

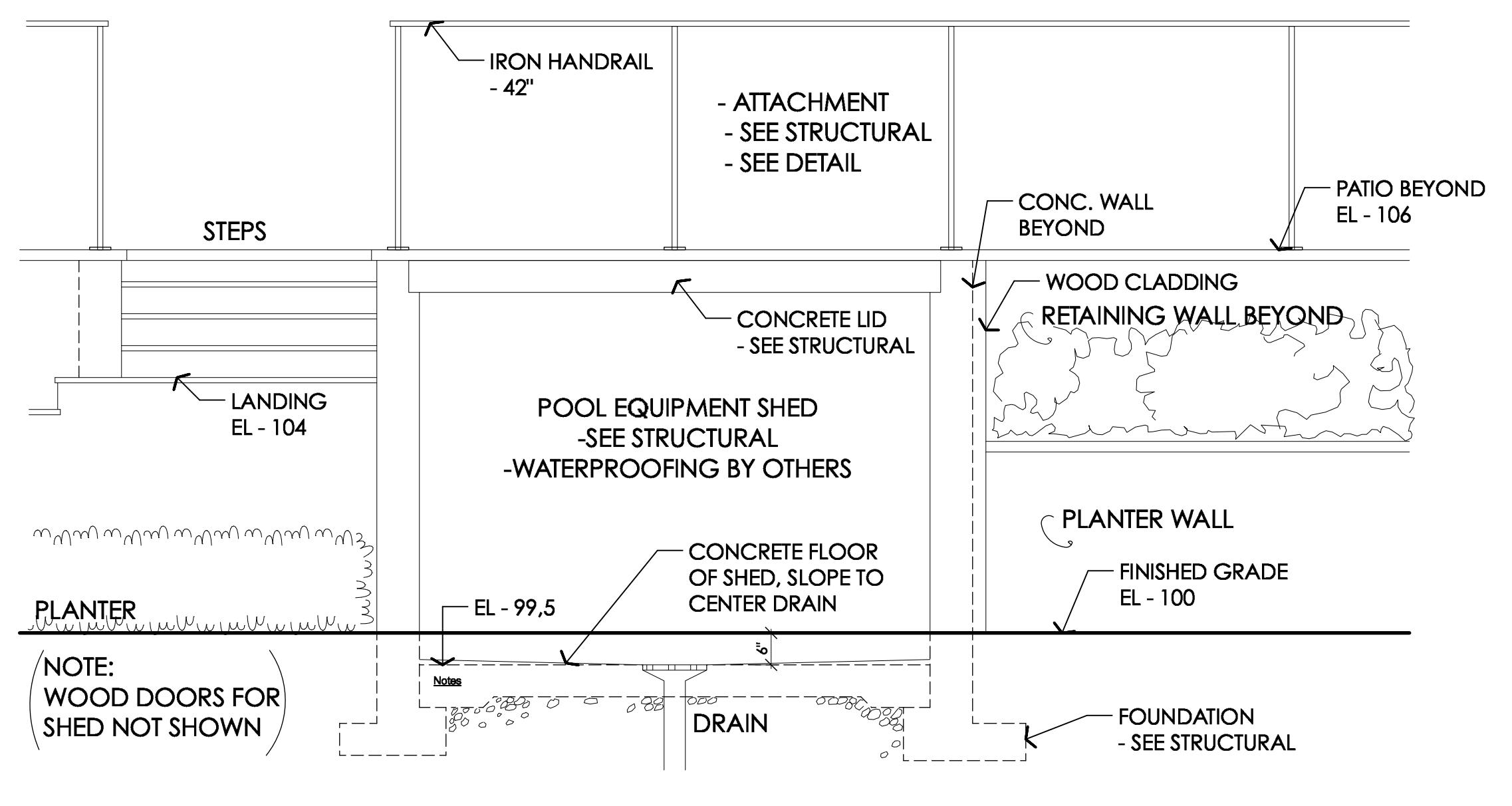
4 NOT USED



5 SITE WALL



7 MORTARED STONE PAVING



6 POOL EQUIPMENT SHED W/ PATIO ABOVE ELEVATION / SECTION

POOL EQUIPMENT & FINISHES

GENERAL:

1. CONTRACTOR SHALL PROVIDE COSTING BASED UPON THE ASSUMPTIONS NOTED BELOW AS WELL AS THE PLANS SP 1.1 AND SP1.2, CIVIL/DRAINAGE PLANS C1-6 AND THE L SERIES PLANS INCLUDING LAYOUT AND FINE GRADING.
2. CONTRACTOR SHALL COORDINATE ALL UTILITIES AND CONTROLS SUCH THAT THE SYSTEM AND ITS COMPONENTS WORK TOGETHER IN A MANNER THAT IS OF THE HIGHEST QUALITY AND SIMPLE IN ITS EASE OF USE FOR THE OWNERS.
3. ADDITIONAL THOUGHTS ON EQUIPMENT AND APPROACH ARE APPRECIATED AND CAN BE ADDED AS BID ALTERNATES.

POOL LAYOUT & GRADING:

1. LAYOUT POOL AND COORDINATE ALL GRADING FOR POOL WITH GRADING REQUIREMENTS FOR THE ENTIRE PROJECT. CUT AND FILL ARE CURRENTLY ASSUMED TO BE BALANCED AND FILL PLACEMENT SHALL BE COORDINATED WITH OTHER PROJECT ELEMENTS AND INSTALLATION TO ENSURE EFFICIENT HANDLING OF MATERIALS.
- A. BID ALTERNATE - PROVIDE PRICE PER YARD FOR EXPORT OF EXCESS CUT, SHOULD IT BE REQUIRED.

POOL EQUIPMENT:

1. EQUIPMENT PAD
 - A. PROVIDE UTILITY, LAYOUT AND INSTALLATION OF EQUIPMENT PAD AND COORDINATE FOUNDATION FOR SCREENING AND SOUND INSULATING STRUCTURE.
2. LIGHTS
 - A. PENTAIR GLO BRITES OR EQUAL.
 - B. PROVIDE ALTERNATE WITH LED LIGHTS.
3. POOL EQUIPMENT CONTROLLER
 - A. PENTAIR EASY TOUCH, OR EQUAL, TO CONTROL POOL AND SPA.
 - B. BID ALTERNATE - (OR PROVIDE EQUAL, PLEASE SPECIFY)
 - i. JANDY PDA POOL AUTOMATION SYSTEM (IF COMPATIBLE)
 - 2) INCLUDES CPU BOARDS, ACTUATORS, VALVES, SENSORS, ETC.
 - 3) WIRELESS REMOTE CONTROLS ALL POOL FUNCTIONS, PROGRAMS, VALVES, TEMPS, ETC.
 - 4) INCLUDES PLUMBING AND INSTALLATION OF SYSTEM @ EQUIPMENT PAD AREA
4. CONDUIT AND WIRE
 - A. AS REQUIRED TO COMPLETE THE PROJECT.
5. DRAINS
 - A. (2) ANTI-VORTEX MAIN DRAINS
6. SKIMMER
7. AUTOMATIC OVERFLOW LINE
8. AUTOMATIC WATER REFILL DEVICE
 - A. PROVIDE MAKE, MODEL AND SIZE.
9. HEATER
 - A. PENTAIR MASTER TEMP 400 K BTU
10. FILTER
 - A. PENTAIR CLEAN AND CLEAR CARTRIDGE
11. WATER QUALITY
 - A. PROVIDE SALT WATER TREATMENT SYSTEM
 - B. HAYWARD AQUARITE OR EQUAL
 - C. BID ALTERNATE-HAYWARD AQUARITE PLUS.
12. SOLAR HEATING SYSTEM
 - A. PROVIDE BID ALTERNATE TO INCLUDE A SOLAR HEATING ALTERNATIVE
13. ALL POOL/SPA PLUMBING - RETURNS & SUCTIONS RUN TO PAD LOCATION (PER PLAN)
 - A. POOL RETURN INLETS (3)
 - B. SWEEP LINE (1)
 - C. PVC SKIMMER (1) W/ MAIN DRAIN LINE
14. SPA PLUMBING:
 - A. (5) STANDARD JETS W MAIN DRAIN SUCTIONS
 - B. SHARE POOL EQUIPMENT (HEATER, ETC.)
15. ALL LINES PRESSURE TESTED DURING CONSTRUCTION
 - A. ALL LINES /CONDUIT LIGHT RUNS - RUN TO PAD LOCATION

POOL FINISHES

FINAL DECISION ON ALL FINISHES WILL BE PER APPROVED SAMPLE AND BUDGET.

1. COPING
 - A. STONE COPING - CT. BLUESTONE - EXPOSED CUT EDGES, GAUGED THICKNESS AND THERMAL FINISH @ ALL SURFACES EXPOSED TO VIEW.
2. TILE
 - A. INCLUDE TILE RATED FOR USE IN SWIMMING POOLS AT:
 - i. WATER LINE, SPA TOP BEAM AND COVER BEAM.
 - ii. BASE BID - PORCELAIN TILES - 6"X6" OR LARGER AS REQUIRED FOR MINIMIZING CUTTING AND ELIMINATING SMALL TILE SLIVERS.
 - iii. STANDARD TO MATCH PLASTER.
 - iv. BID ALTERNATE - PROVIDE BUDGET ALLOWANCE FOR UPGRADES UTILIZING STONE, GLASS AND MOSAIC TYPE TILES PENDING OWNER SELECTION.
3. PLASTER
 - A. DARK PLASTER, GREY TO BLACK.

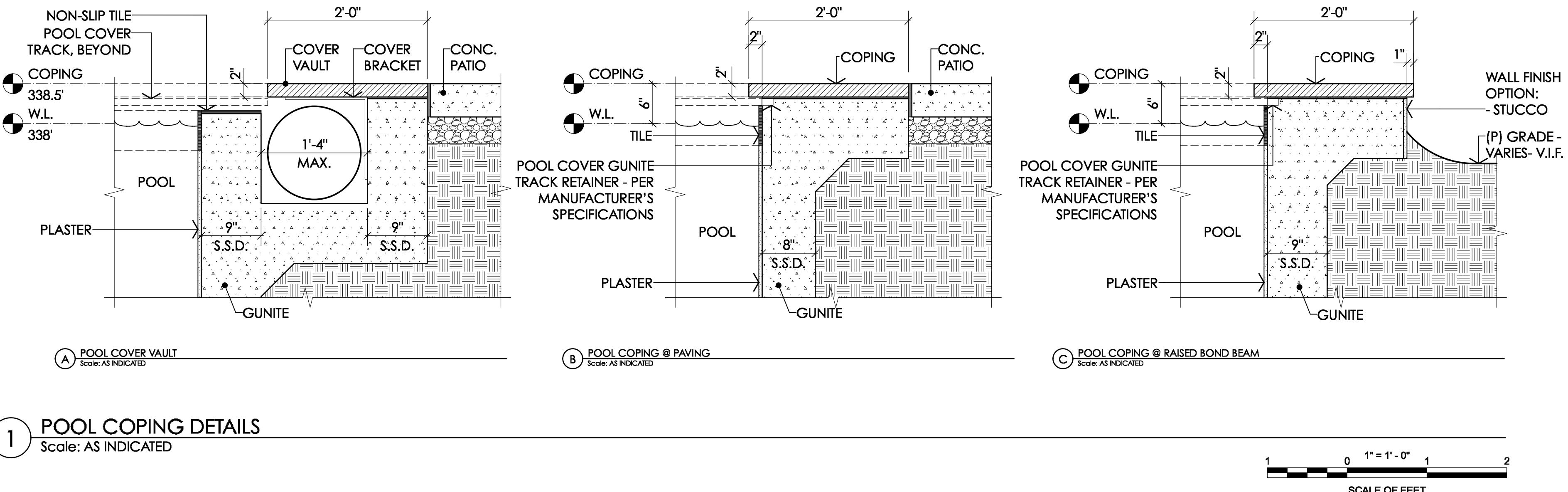
POOL COVER

INCLUDE COMPLETE AUTO POOL SAFETY COVER BUILD W/ GUNITE VAULT

1. AUTO COVER LID
 - A. WALK ON STAINLESS STEEL BRACKETS WITH COPING TO MATCH ADJACENT COPING MATERIALS.
2. AUTOMATIC SAFETY POOL COVER VAULT
 - A. PROVIDE DRAINAGE FROM COVER VAULT TO APPROVED DRAINAGE SYSTEM.
 - B. PROVIDE BUILDING MOUNTED SWITCH FOR COVER OPENING AND CLOSING.
3. MAKE
 - A. POOL COVERS INC. INFINITY 4000-
 - i. The Infinity 4000™ is compliant with : IPSC 305.1 & 303.4, IAPMO 415.1.3 & 415.0, ASHRAE 7.4.1
 - B. MODEL/TYPE: AUTOMATIC UNDERTRACK
 - C. COLOR - PER APPROVED SAMPLE
 - i. BID ASSUMPTION - CHARCOAL GRAY

POOL STARTUP, MAINTENANCE, AND WARRANTY

1. POOL FILL
 - A. PROVIDE COST FOR WATER TRUCKED IN TO FILL POOL.
2. MAINTENANCE - EQUIPMENT AND CHEMICALS START UP.
 - A. 90-DAY INITIAL SERVICE INCLUDING CHEMICALS, ALL REQUIRED MAINTENANCE VISITS.
3. PROVIDE MINIMUM 1 YEAR WARRANTY ON ALL INSTALLED EQUIPMENT AND OPTION FOR EXTENDED WARRANTY ON WORKMANSHIP.



1 POOL COPING DETAILS
Scale: AS INDICATED

GENERAL NOTES:

1. POOL CONSTRUCTION TO COMPLY WITH: CBC 2019 CODE, CFC CODE, ELECTRICAL CODE.
2. COORDINATE EXCAVATION AND POOL DRAINAGE REQUIREMENTS WITH GEOTECHNICAL ENGINEER.
3. CONTRACTOR TO COORDINATE INSTALLATION AND REQUIREMENTS FOR LIGHTING, POOL EQUIPMENT PLUMBING, ELECTRICAL AND ALL OTHER NON-STRUCTURAL ITEMS NOT SHOWN. PROVIDE A MINIMUM OF 1 1/2" CLEARANCE AROUND ALL PIPING.
4. COORDINATE DETAILS AND ELEVATIONS OF SITE WORK AND POOL WITH ARCHITECTS AND ENGINEER'S DRAWINGS
5. SOIL PREPARATION FOR SITE IMPROVEMENTS SUPPORTED ON GRADE SHALL BE AS RECOMMENDED BY THE GEOTECHNICAL REPORT.
6. PLUMBING AND ELECTRICAL WORK FOR THE SWIMMING POOL SHALL BE INSTALLED BY A CONTRACTOR LICENSED IN THE STATE OF CALIFORNIA TO PERFORM THAT WORK. FOLLOW MANUFACTURER'S REQUIREMENTS AND THE APPLICABLE SECTIONS OF THE CALIFORNIA ELECTRICAL AND PLUMBING CODES.

7. SAFETY POOL COVER SHALL MEET ASTM F1346-91. INSTALL AS RECOMMENDED BY THE POOL COVER MANUFACTURER WITH STAINLESS STEEL FASTENERS. COORDINATE POOL COVER HOUSING DIMENSIONS WITH POOL COVER MANUFACTURER'S SPECIFICATIONS.
8. SUCTION GRATES COVER SHALL MEET ASME/ANSI A12.19.8

GROUNDING NOTE:

1. ALL POOL SLAB REINFORCING AND RETAINING WALL REINFORCING STEEL AND ALL OTHER METAL ITEMS SUCH AS HANDRAILS IN THE POOL AND WITHIN 5'-0" OF THE POOL WATER SHALL BE BONDED TO THE COMMON POOL GROUNDING GRID WITH A BARE COPPER WIRE NOT SMALLER THAN #8 AWG.

ELECTRICAL NOTE:

1. INSTALL A WATERPROOF GROUND FAULT CIRCUIT INTERRUPT PROTECTED RECEPTACLE 10FT. MINIMUM AND 20 FT. MAXIMUM FROM THE POOL WATER 2'-0" ABOVE GRADE.

PLUMBING NOTE:

1. SWIMMING POOL SHALL HAVE AT LEAST TWO CIRCULATION DRAINS PER PUMP. PUMP SHALL BE HYDRAULICALLY BALANCED AND SYMETRICALLY PLUMBED THROUGH ONE OR MORE "T" FITTINGS. DRAINS SHALL HAVE A MINIMUM 3 FT. SEPARATION BETWEEN THEM. SUCTION OUTLETS THAT ARE LESS THAN 12" IN DIAMETER ACROSS SHALL BE COVERED WITH ANTI-ENTRAPMENT DEVICES PER ASME/ANSI STANDARD A112.19.8. ADDITIONAL SAFETY DEVICES INSTALLED IN THE SWIMMING POOL OR SPA SHALL MEET THE STANDARDS AS PUBLISHED IN:

"GUIDELINES FOR ENTRAPMENT HAZARDS: MAKING POOLS AND SPAS SAFER", PUBLICATION DOCUMENT NO. 363, MARCH 2005, UNITED STATES CONSUMER PRODUCTS SAFETY COMMISSION, HEALTH & SAFETY CODE 115928 AND CBC 3109.4.4.8.

2. SUCTION OUTLETS SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH ANSI/APSP-7

CONTRACTOR NOTE:

1. CONCRETE FOR THE SWIMMING POOL SHALL BE SHOTCRETE
2. DRAINAGE DETAILS MAY BE SCHEMATIC AND INCOMPLETE, REFER TO THE TEXT AND DRAWINGS IN THE GEOTECHNICAL REPORT & CIVIL DRAWINGS FOR ACTUAL MATERIALS AND INSTALLATION.



POOL DETAILS AND NOTES

NO.	DATE	ISSUE NOTES

NO.	DATE	REV. NOTES

DATE:
04/06/2022

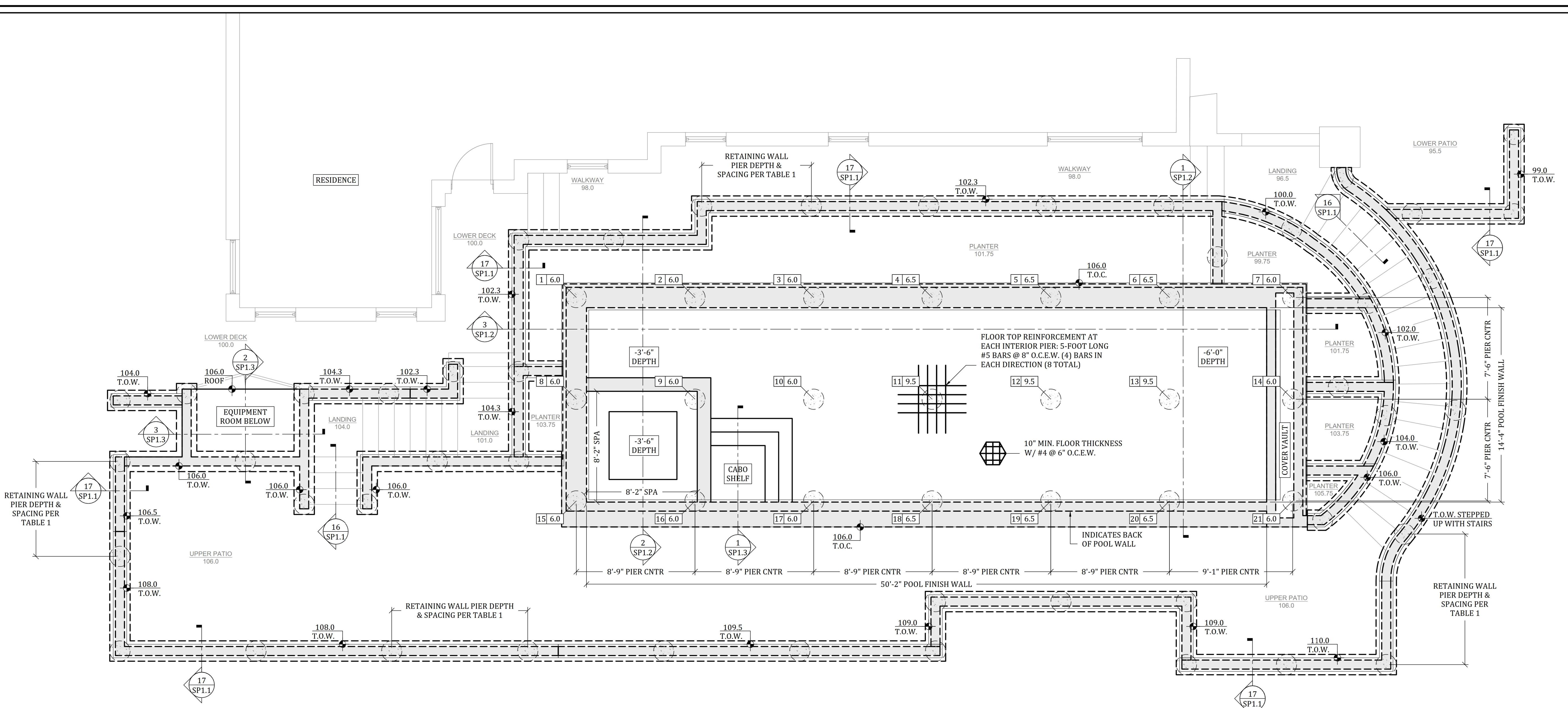
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SL

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L5.2



FOR RETAINING WALL LOCATION DIMENSIONS SEE NOTE 1

1 PIER RETAINING WALL SITE PLAN

GENERAL

- ALL DIMENSIONS & WALL ELEVATIONS SHOULD BE FIELD VERIFIED PRIOR TO STARTING WORK. REFER TO LANDSCAPE ARCHITECTURAL PLANS FOR FINAL WALL LOCATIONS AND DIMENSIONS. NOTIFY LENEHAN ENGINEERING OF ANY DISCREPANCIES.
- ALL APPLICABLE STATE, LOCAL LAWS, AND CODES SHALL BE FOLLOWED.
- STRUCTURAL DECKS ARE NOT TO BE SUPPORTED, OR STRUCTURALLY CONNECTED, TO THE RETAINING WALLS. WALLS ARE NOT DESIGNED WITH ADDITIONAL LOADING FROM NEARBY STRUCTURES OTHER THAN STRUCTURES SHOWN IN THESE DRAWINGS. IF WALLS NEED TO SUPPORT DECKING, OR OTHER STRUCTURES, NOTIFY LENEHAN ENGINEERING.
- DECKING: EXPANSION JOINT OF MASTIC OR OTHER SEPARATOR SHOULD BE PLACED BETWEEN CONCRETE DECKS AND RETAINING WALLS AND SHOULD EXTEND THE FULL DEPTH OF THE DECK.
- CANTILEVER DECKS: PLACE A BOND BREAK AT THE TOP OF THE RETAINING WALL AND BELOW THE CANTILEVER DECK SUCH AS 30# ROOF FELT, HEAVY BROWN PAPER OR OTHER EQUIVALENT.
- ANY FIELD CONDITIONS THAT ARE NOT CONSISTENT WITH THIS PLAN SHOULD BE BROUGHT TO THE ATTENTION OF LENEHAN ENGINEERING.
- IF A RAMP IS CUT TO REMOVE SOIL FROM THE EXCAVATION, INCREASE VERTICAL REINFORCEMENT TO #4@6" O.C. IN THE RAMP AREA. INCREASE HORIZONTAL REINFORCEMENT TO #4@6" O.C. AND EXTEND THE REINFORCEMENT AT LEAST 3 FEET BEYOND THE EDGE OF THE RAMP.
- THE PROJECT SOILS REPORT, DESCRIBED IN BASIS OF DESIGN, SHALL BE USED FOR ANY SOILS RELATED CRITERIA SUCH AS GRADING AND PIER DEPTHS.
- WALL DRAINAGE MAY CONSIST OF A 12 INCH GRAVEL DRAIN WRAPPED IN A FILTER FABRIC, OR A DRAINAGE COMPOSITE. DRAIN BOTH OPTIONS TO A 4" Ø PERFORATED PIPE. DISCHARGE AT 1% SLOPE TO EXISTING DRAINAGE SYSTEM.

BASIS OF DESIGN

- 2019 CALIFORNIA BUILDING CODE; ACI 318
- GEOTECHNICAL STUDY REPORT: "POOL AND LANDSCAPE IMPROVEMENTS", SALEM HOWES ASSOCIATES, DATED: DECEMBER 13, 2021. PROJECT NUMBER: 2105023
- A. LATERAL EARTH PRESSURE: 35 PCF, OUTWARD HYDROSTATIC PRESSURE: 63 PCF.
- B. PIER SKIN FRICITION: 900 PSF (BEDROCK)
- C. PASSIVE PRESSURE: 800 PCF, OVER 2 PIER DIA.
- D. CREEP FORCES: 45 PCF (APPLIED TO UPPER 2 FEET).
- E. PIER DEPTHS TO BE DETERMINED BY SOILS ENGINEER OF RECORD AND SHALL EXTEND TO A MINIMUM DEPTH OF 6 FEET INTO COMPETENT BEARING STRATUM, OR THE MINIMUM STRUCTURAL DEPTHS CONTAINED ON SP1.0, WHICHEVER IS GREATER.
- F. POOL FLOOR SHALL BE UNDERLAIN BY A 4-INCH GRAVEL LAYER CONSISTING OF 3/4" CRUSHED GRAVEL OR CLASS II PERMEABLE BASE WHICH SHOULD BE PLACED OVER MIRAFI 140N FILTER FABRIC, OR EQUIVALENT.
- G. A HYDROSTATIC RELIEF VALVE SHALL BE INSTALLED IN THE DEEPEST PORTION OF THE SWIMMING POOL TO ALLOW THE DISSIPATION OF HYDROSTATIC PRESSURES.

CONCRETE

- CONCRETE: FOR USE IN THE DRILLED PIERS, RETAINING WALL GRADE BEAMS, RETAINING WALL STEM, EQUIPMENT ROOM ROOF.
- CEMENT SHALL CONFORM TO CBC SECTION 1903.1, ACI 318 CHAPTER 19, ACI 336, ASTM C 150.
- NORMAL WEIGHT CONCRETE SHALL BE MIXED AND PROPORTIONED IN ACCORDANCE WITH ACI 301. CEMENT TO AGGREGATE, IN DRY WEIGHT, SHALL NOT BE LESS THAN 1 TO FIVE.
- MINIMUM COMPRESSIVE STRENGTH, $F_c' = 3,000 \text{ PSI} @ 28 \text{ DAYS}$ (BASED ON 2,500 PSI DESIGN STRENGTH, NOT REQUIRING SPECIAL INSPECTIONS).
- AGGREGATE: 4" MAX; W/C RATIO: 0.60 WITH 6" SLUMP

- CEMENT CONTENT: 500 LBS/YDS MIN (2,500 PSI CONCRETE), 550 LBS/YDS MIN (3,000 PSI CONCRETE).
- CONCRETE TO BE PLACED ON OR AGAINST FIRM UNDISTURBED SOIL.
- FLY ASH MAY BE USED PROVIDED THE FLY ASH CONTENT DOES NOT EXCEED 15% OF THE CEMENTITIOUS MATERIAL CONTENT. FLY ASH SHALL BE ASTM C618, CLASS C OR F.

SHOTCRETE (GUNITE)

- SHOTCRETE (GUNITE): FOR USE IN THE SWIMMING POOL. GUNITE IS A COMMON TERM THAT REFERS TO THE SHOTCRETE DRY MIX PROCESS AND IS ACCEPTABLE TO USE WITH THIS PLAN.
- GUNITE CEMENT TO AGGREGATE PROPORTIONS SHOULD NOT BE LESS THAN 1 TO 5 AND SHOULD CONFORM TO CBC 1908 AND ACI 506.
- MINIMUM COMPRESSIVE STRENGTH, $F_c' = 2,500 \text{ PSI} @ 28 \text{ DAYS}$.
- MINIMUM WALL THICKNESS IS 8 INCHES.
- KEEP GUNITE DAMP CONTINUOUSLY FOR 14 DAYS.
- GROUND ALL ELECTRICAL ELEMENTS PRIOR TO PLACING GUNITE.
- REBOUND IS NOT TO BE USED WITHIN THE POOL STRUCTURE.

REINFORCEMENT

- REINFORCEMENT SHOULD BE PLACED IN ACCORDANCE WITH CBC 1908.4 AND ACI 318 CHAPTER 25 AND BE ASTM A615 GRADE 40 OR BETTER FOR #3 AND #4 BARS, GRADE 60 FOR #5 AND GREATER.
- SPlices ARE TO BE LAPPED A MINIMUM OF 48 BAR DIAMETERS WITH A 2 1/2-INCH MINIMUM CLEARANCE BETWEEN PARALLEL BARS. CONTACT SPLICING MAY BE USED PROVIDED SPliced BARS ARE IN THE SAME PLANE AND PARALLEL TO THE DIRECTION OF THE GUNITE SHOTGING. SPlices ARE TO BE LAPPED A MINIMUM OF 24 INCHES.
- ALL BENDS ARE TO BE SHARP.

- 3 INCH MINIMUM CLEARANCE IS REQUIRED BETWEEN REINFORCEMENT AND SOIL AND A 2 INCH CLEARANCE BETWEEN REINFORCEMENT AND WATER OR EXPOSED TO AIR. PIER REINFORCEMENT CAGES SHOULD BE COMPLETELY ENCASED IN CONCRETE USING APPROPRIATE SPACERS AS NECESSARY.
- DO NOT STRUCTURALLY TIE THE BOND BEAM AND CONCRETE DECK TOGETHER.

DRILLED PIER PLACEMENT

- DRILLED PIER EXCAVATION SHOULD BE INSPECTED AND APPROVED BY THE SOILS ENGINEER OF RECORD.
- AFTER DRILLED PIERS HAVE BEEN APPROVED, PIERS SHOULD BE FILLED WITH CONCRETE IMMEDIATELY. DO NOT ALLOW THE TOP OF THE PIER TO MUSHROOM. THE USE OF A SONOTUBE TO CREATE A STRAIGHT SHAFT IS ACCEPTABLE.
- CONCRETE SHOULD NOT BE ALLOWED TO FREE FALL MORE THAN 6 FEET AND SHOULD BE CENTERED IN THE REINFORCEMENT CAGE TO AVOID SEPARATION OF THE CONCRETE. PLACE CONCRETE CONTINUOUSLY FOR EACH PIER.
- IF WATER IS ENCOUNTERED IN THE PIER EXCAVATION, CONCRETE MUST BE PLACED BY TREMIE METHOD. AS WITH OTHER METHODS, THE TREMIE PLACEMENT SHOULD NOT BE

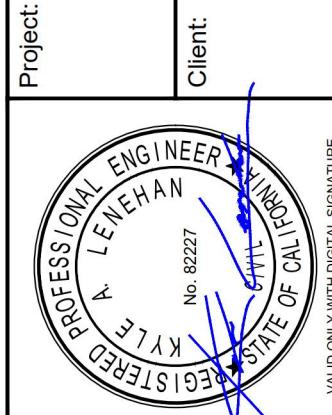
INTERRUPTED AND PLACED CONTINUOUSLY FOR EACH PIER ABBREVIATION LEGEND

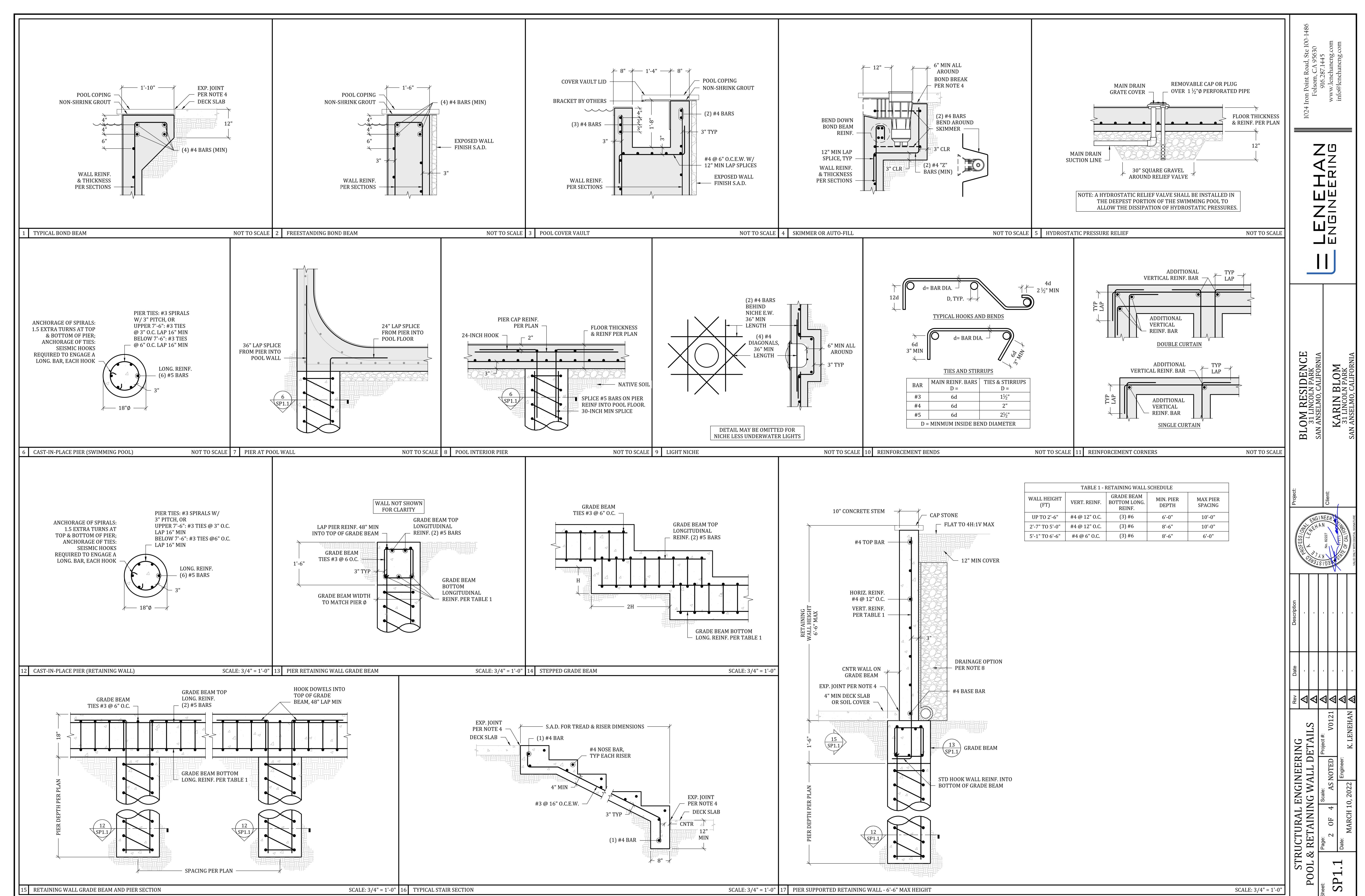
TYP	TYPICAL	VERT	VERTICAL
EMBD	EMBEDMENT	HORIZ	HORIZONTAL
CLR	CLEARANCE	TRANS	TRANSVERSE
CTR	CENTER	LONG	LONGITUDINAL
O.C.	ON CENTER	REINF	REINFORCEMENT
E.W.	EACH WAY	RBB	RAISED BOND BEAM
S.A.D.	SEE ARCHITECTURAL DETAILS	T.O.W.	TOP OF WALL
MIN	MINIMUM	T.O.C.	TOP OF COPING
MAX	MAXIMUM	(E)	EXISTING

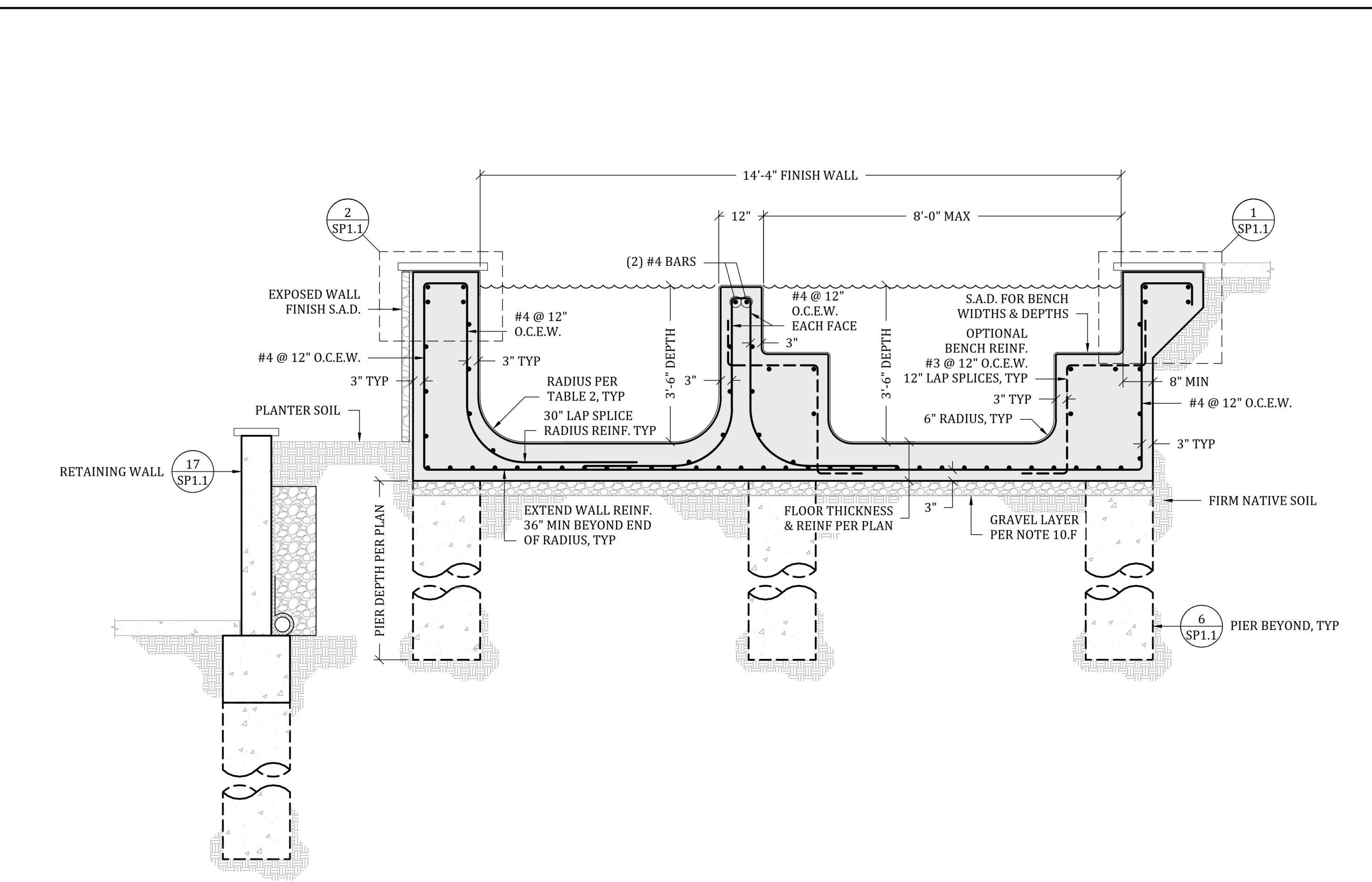
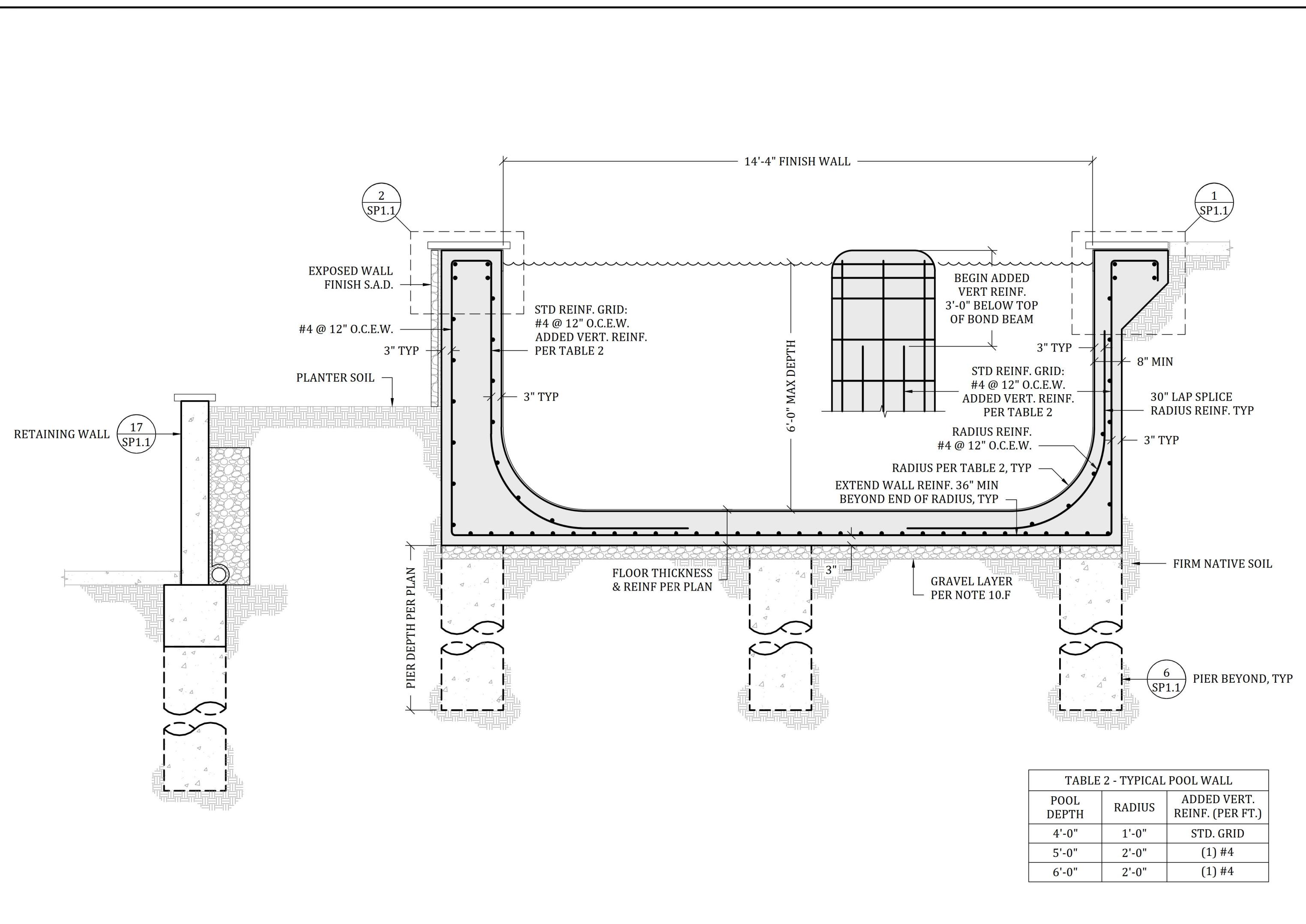
REQUIRED SPECIAL INSPECTIONS

- DRILLED PIER INSPECTION BY SOILS ENGINEER.
- DRILLED PIER REINFORCEMENT INSPECTION.

PIER CALLOUT KEY	
PIER NUMBER	REQUIRED PIER DEPTH (FT) # # INTO BEDROCK
DEPTHS INDICATED AT EACH PIER CALLOUT ARE DEPTHS INTO BEDROCK DESCRIBED IN THE GEOTECHNICAL REPORT; TO BE DETERMINED BY SOILS ENGINEER OF RECORD. FINAL DEPTHS MAY EXCEED THE MINIMUM DEPTHS INDICATED.	







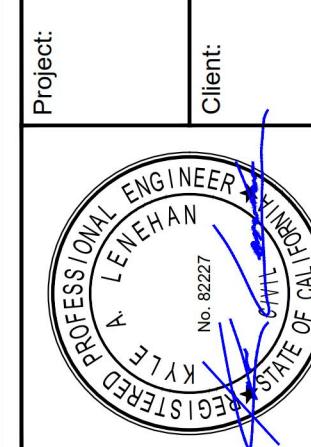
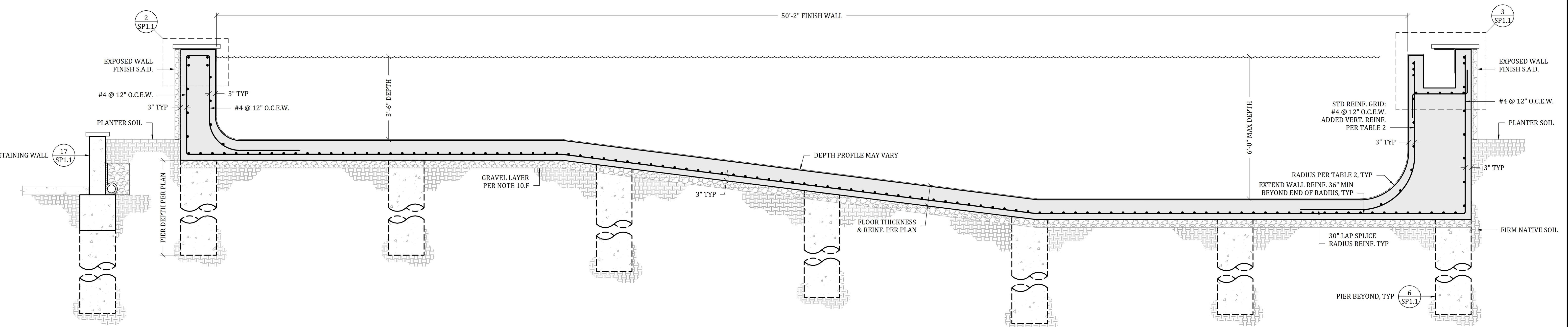
LENENHAN
ENGINEERING

1024 Iron Point Road Ste 100 1486
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916.287.1445
www.lenenhaneng.com
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BLOM RESIDENCE
31 LINCOLN PARK
SAN ANSELMO, CALIFORNIA

KARIN BLOM
31 LINCOLN PARK
SAN ANSELMO, CALIFORNIA

1 POOL SECTION 2 POOL SECTION 3 POOL SECTION SCALE: 1/2" = 1'-0"



VALID UNTIL 2027
PROFESSIONAL ENGINEER
K. LENEHAN, PE
#82227
STATE OF CALIFORNIA
VALID UNTIL 2027
PROFESSIONAL ENGINEER
K. LENEHAN, PE
#82227
STATE OF CALIFORNIA

STRUCTURAL ENGINEERING		Rev.	Date	Description
POOL SECTIONS		▲	▲	▲
Page: 3	OF 4	AS NOTED	Project #: V0121	Project:
Date: MARCH 10, 2022	Engineer: K. LENEHAN	▲	▲	Client:

Sheet: SP1.2

Page: 3

Scale: 1/2" = 1'-0"

Date: MARCH 10, 2022

Engineer: K. LENEHAN

Project:

BLOM RESIDENCE

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SAN ANSELMO, CALIFORNIA

Client:

KARIN BLOM

31 LINCOLN PARK

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Project:

LENENHAN

ENGINEERING

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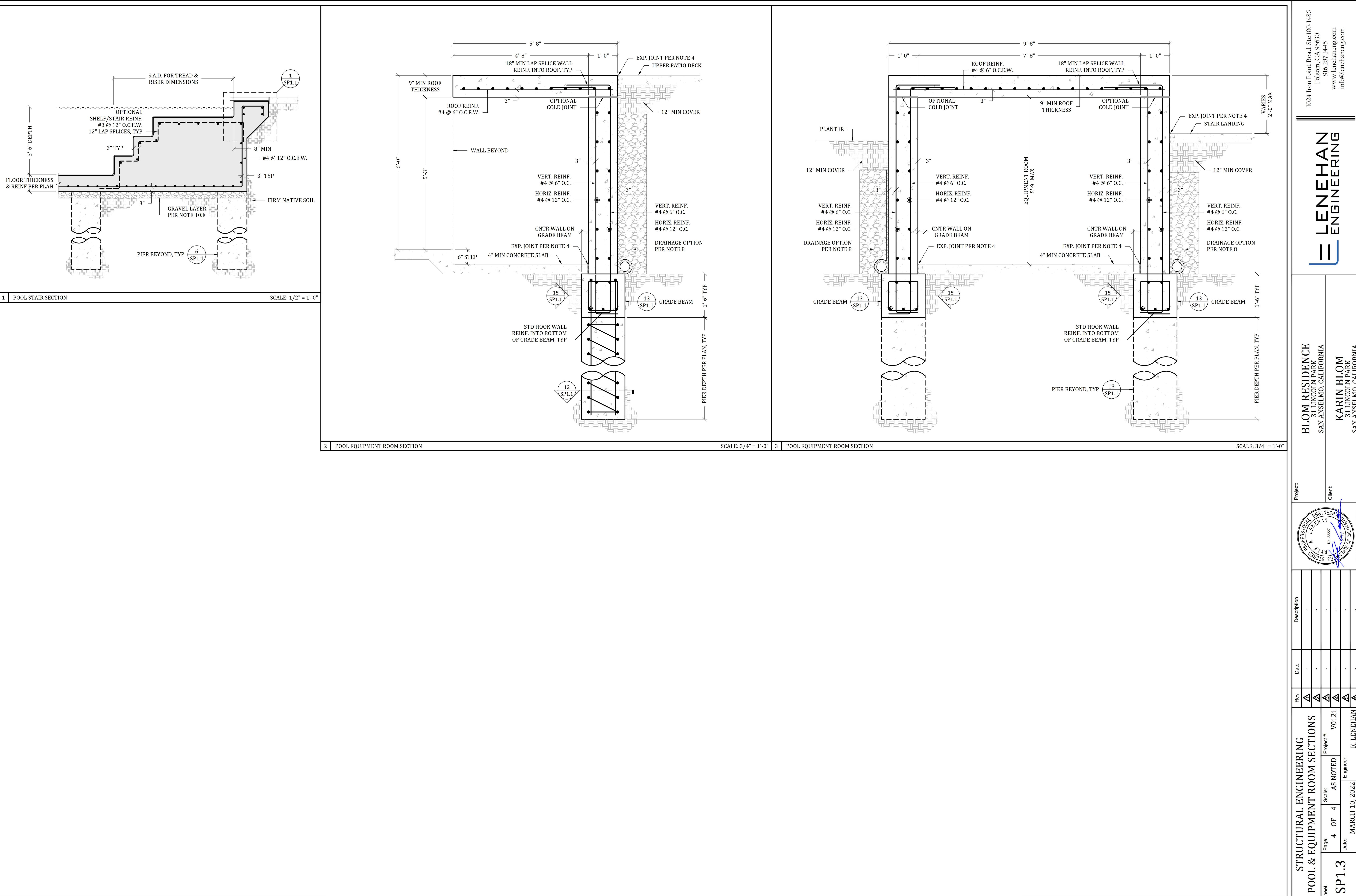
STATE OF CALIFORNIA

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GENERAL NOTES

DRAINAGE NOTES

SANITARY SEWER NOTES

GRADING QUANTITIES

TOPOGRAPHIC INFORMATION

CONSTRUCTION NOTES

PROJECT SAFETY REQUIREMENTS

SYMBOLS

ABBREVIATIONS:

DESIGN TEAM:

CONSTRUCTION NOTES, ABBREVIATIONS

AREA MAP

VICINITY MAP

PLATE

CITY OF SAN ANSELMO
ENGINEERING DEPARTMENT

1-800-227-2600
1-800-227-2600

CALL BLDG. 1000 UNDERGROUND SERVICES

Date:

By:

Revisions:

Project:

Address: 31 Lincoln Park, San Anselmo, CA 94460, APN: 006-254-01

CIVIL ENGINEER
PROFESSIONAL
LICENSE #73361
Ex. 6-30-23

4/6/2022
Date:
VIA ATELIER, INC.

Plans Prepared By:
VIA ATELIER, INC.

Job No: 2203.a
Date: 04/06/22

Drawn By:
Reviewed: V.I.

SHEET:

GENERAL NOTES

- ALL MATERIAL WORKMANSHIP AND CONSTRUCTION SHALL CONFORM TO THE STATE OF CALIFORNIA STANDARD SPECIFICATIONS, STANDARD PLANS AND THE MARIN COUNTY STANDARD PLANS UNIFORM CONSTRUCTION STANDARDS (UCS), (LATEST REVISION) OR ANY WORK TO BE PERFORMED ON THE EIGHT-OF-WAY THE CURRENT CODES OF MARIN COUNTY SPECIFICATIONS AND STANDARDS.
- CONTRACTOR SHALL OBTAIN AN ENCROACHMENT PERMIT FROM THE CITY OF SAN ANSELMO, ENGINEERING DEPARTMENT BEFORE STARTING WORK.
- THE CONTRACTOR SHALL NOTIFY THE TOWN ENGINEER TO COORDINATE FOR INSPECTIONS 48 HOURS BEFORE STARTING WORK. THE TOWN OF SAN ANSELMO AND THE OWNERS WILL DETERMINE INSPECTIONS FOR REQUIRED NOTIFICATIONS AND APPROVALS BASED ON THE CONDITIONS OF THE PROJECT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING UNDERGROUND SERVICE ALERT (USA) CALL TOLL-FREE 800-227-2600 AT LEAST 72 HOURS PRIOR TO EXCAVATION. THE CONTRACTOR SHALL UNCOVER EXISTING BURIED UTILITIES WITH UTILITY OWNER TO VERIFY LOCATIONS AND ELEVATIONS OF UTILITIES. BURIED UTILITIES INCLUDE, BUT ARE NOT LIMITED TO WATER, SEWER, ELECTRICAL, GAS AND TELEPHONE. ALL UTILITIES CONCERNED WITH THE PROPOSED CONSTRUCTION SHALL BE RELOCATED PRIOR TO START OF CONSTRUCTION.
- RESTORATION OF EXISTING SURFACING DUE TO CONSTRUCTION OF TRENCHES SHALL BE GOVERNED BY THE CONDITIONS IN MARIN COUNTY SPECIFICATIONS AND UCS.
- TOWN'S ENGINEERING DEPARTMENT MAY REQUIRE ADDITIONAL WORK OR FACILITIES IN THE COURSE OF THE FINAL APPROVAL AND OF THE CONSTRUCTION OF PROJECT IN ORDER FOR THE IMPROVEMENTS TO REASONABLY PROVIDE FOR THE INTENDED FUNCTION OR FOR PUBLIC SAFETY.
- ALL PROPERTY CORNERS AND OTHER PERMANENT MONUMENTS DISTURBED DURING THE PROCESS OF CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- LOCATIONS, SIZES AND DEPTHS OF EXISTING UNDERGROUND FACILITIES AS SHOWN ON THESE IMPROVEMENT PLANS WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE ENGINEER AND THE TOWN OF SAN ANSELMO ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF THE DELINEATION OF SUCH UNDERGROUND FACILITIES NOR FOR THE EXISTENCE OF OTHER BURIED OBJECTS OR FACILITIES WHICH MAY BE ENCOUNTERED, BUT WHICH ARE NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF THOSE FACILITIES SHOWN AND ANY WHICH MAY EXIST AND ARE NOT SHOWN PRIOR TO COMMENCEMENT OF ANY WORK. THE CONTRACTOR SHALL EXPOSE ALL UNDERGROUND FACILITIES THAT ARE TO BE CONNECTED TO OR THAT ARE PART OF THE PROPOSED IMPROVEMENTS FOR VERIFICATION OF ELEVATION AND LOCATION BY TOWN ENGINEER. THE CONTRACTOR SHALL DETERMINE WHETHER THERE IS NO CONFLICT PRIOR TO COMMENCING CONSTRUCTION OF THAT PORTION OF THE WORK AND/OR ANY UPSTREAM WORK THAT WOULD BE AFFECTED BY A CONFLICT WITH THE EXISTING FACILITIES. IF THERE IS INTERFERENCE WITH PLAIN UTILITY LOCATION THEN ADJUSTMENT OF NEW UTILITY GRADES ARE REQUIRED. THE ADJUSTED GRADE SHALL BE RECOMMENDED BY THE PROJECT/DESIGN ENGINEER IN WRITING AND SHALL BE APPROVED IN WRITING BY THE DESIGN ENGINEER AND THE TOWN OF SAN ANSELMO PRIOR TO INSTALLATION.
- THE CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOBSITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNERS, MEMPHIS AGENCIES, THE ENGINEER, AND THE TOWN HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT.
- UNAUTHORIZED CHANGES OR USES: THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS.
- ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.
- IF CONSTRUCTION IS PERFORMED EARLIER THAN APRIL 15 OR LATER THAN OCTOBER 15 IN ANY GIVEN YEAR, AN APPROVED SILTATION CONTROL PLAN, DESIGNED BY A CIVIL ENGINEER OR APPROVED, COMPETENT INDIVIDUAL IS REQUIRED.
- THE CONTRACTOR SHALL PROVIDE FOR INGRESS AND EGRESS FOR ANY PRIVATE PROPERTY ADJACENT TO THE WORK AREA THROUGHOUT THE PERIOD OF CONSTRUCTION.
- NO TREES SHALL BE REMOVED FROM THE SITE PRIOR TO OBTAINING A TREE REMOVAL PERMIT FROM THE TOWN OF SAN ANSELMO.

CONSTRUCTION NOTES

- VARIANCES FROM STANDARD DETAILS OF THESE PLANS REQUIRE THE PRIOR WRITTEN APPROVAL OF THE TOWN OF SAN ANSELMO AND ENGINEER OF RECORD.
- THE PROJECT ENGINEER SHALL HAVE FORTY-EIGHT (48) HOURS NOTICE FOR ANY REQUIRED INSPECTIONS.
- UNAUTHORIZED CHANGES AND USES: THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS.
- THE CONTRACTOR SHALL PROVIDE FOR ADEQUATE DUST CONTROL AT ALL TIMES. SEDIMENT AND SILT CONTROL MUST BE MAINTAINED BY THE CONTRACTOR ON A DAILY BASIS BY SWEEEPING AND WATERING WITH RECLAIMED WATER IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY. NO MUD OR DEBRIS MAY ACCUMULATE IN ANY OF THE SITE ADJACENT STREETS.
- IN ACCORDANCE WITH THE TOWN'S NOISE ORDINANCE, NOISE-GENERATING CONSTRUCTION ACTIVITY, INCLUDING THE USE OF POWER TOOLS SHALL BE LIMITED TO BETWEEN 8 AM AND 5 PM, MONDAY THROUGH FRIDAY. CONSTRUCTION IS NOT ALLOWED ON SATURDAYS, SUNDAY, OR HOLIDAYS. ALL CONSTRUCTION VEHICLES OR EQUIPMENT, FIXED OR MOBILE, SHALL BE EQUIPPED WITH PROPERLY OPERATING AND MAINTAINED SILENCERS.
- ALL STORM DRAIN UTILITY TRENCHING SHALL BE PER THE UCS STANDARD PLANS AND SPECIFICATIONS.
- SHOULD IT APPEAR THAT THE WORK TO BE DONE OR ANY MATTER RELATIVE THERETO IS NOT SUFFICIENTLY DETAILED OR EXPLAINED ON THESE PLANS, THE CONTRACTOR SHALL CONTACT THE ENGINEER FOR SUCH FURTHER EXPLANATIONS AS MAY BE NECESSARY.
- THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY FIELD CHANGES MADE WITHOUT WRITTEN AUTHORIZATION FROM THE LOCAL AGENCY OR BY THE ENGINEER OF ANY DEVIATIONS OR CHANGES IN THESE PLANS WITHOUT OFFICIAL APPROVAL OF THE CIVIL ENGINEER SHALL ABSOLVE THE CIVIL ENGINEER OF ANY AND ALL RESPONSIBILITY OF HAVING DEViated OR CHANGED. THE CONTRACTOR MUST NOTIFY THE ENGINEER IN WRITING OF ANY PROPOSED CHANGE OR REVISION, FROM THE APPROVED PLAN SET.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO IMMEDIATELY NOTIFY THE TOWN OF SAN ANSELMO, AGENCY INSPECTOR'S AND THE CIVIL ENGINEER UPON DISCOVERY OF ANY FIELD OR PLAN CONFLICTS.
- ALL CONTRACTORS SHALL BE PROVIDED A COMPLETE SET OF PLANS THAT INCLUDES ALL DRAWINGS AND REPORTS PREPARED BY ALL CONSULTANTS ON THIS PROJECT IN CONJUNCTION WITH ANY BIDDING OR CONSTRUCTION ASPECT.
- THE ENGINEER OF RECORD TAKES NO RESPONSIBILITY FOR ANY UNAUTHORIZED DUPLICATION OF INFORMATION THAT MAY APPEAR ON ANOTHER PLAN OR MAP.
- ALL QUANTITIES AND PAY ITEMS ARE AND WILL BE BASED ON HORIZONTAL MEASUREMENTS.
- ENDS OF STORM DRAIN AND WATERLINE ARE HORIZONTAL DISTANCES FROM CENTER TO CENTER OF STRUCTURES, ROUNDED TO THE NEAREST TENTH.
- THE CONSTRUCTION OF ALL GRAVITY UNDERGROUND LINES (STORM DRAINS AND SANITARY SEWER) SHALL BE INITIATED AT THE MOST DOWNSTREAM END, UNLESS OTHERWISE SPECIFICALLY APPROVED BY THE ENGINEER OF RECORD.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL AND ANY PERMITS REQUIRED BY THE TOWN OF SAN ANSELMO, COUNTY OR STATE AGENCIES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO KEEP ALL PERMITS FOR THIS SITE CURRENT.
- THE CONTRACTOR IS RESPONSIBLE FOR MATCHING EXISTING STREETS, SURROUNDING LANDSCAPING AND OTHER IMPROVEMENTS WITH A SMOOTH TRANSITION IN PAVING, CURB, GUTTER, AND SIDEWALKS; AND AVOIDING ANY APPARENT CHANGES IN GRADE OR CROSS SLOPE, LOW SPOTS, OR HAZARDOUS CONDITIONS.
- TRAFFIC CONTROL DURING CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF "TRAFFIC CONTROLS IN CONSTRUCTION MAINTENANCE WORK ZONES" BY THE U.S. DEPARTMENT OF TRANSPORTATION.
- THE CONTRACTOR OR HIS REPRESENTATIVE MUST APPLY BEST MANAGEMENT PRACTICES DURING CONSTRUCTION TO ENSURE COMPLIANCE WITH THE CLEAN WATER ACT AND MCSTOPP STANDARDS.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT IN PLACE (BY ANY MEANS NECESSARY) ALL EXISTING UTILITIES UNLESS OTHERWISE SPECIFIED ON THESE PLANS OR AS DIRECTED BY THE ENGINEER.

DRAINAGE NOTES

- CONTRACTORS SHALL PERFORM WATER FLOW TESTS AT ALL GRADES OF DRIVEWAY LESS THAN 18 SLOPES AND AT SADS TO ENSURE PROPER DRAINAGE.
- STORM DRAINAGE STATION AND OFFSETS ARE TO THE CENTER OF STRUCTURES.
- PIPE SLOPES AND DISTANCES ARE MEASURED FROM THE CENTER OF STRUCTURE TO THE CENTER OF THE STRUCTURE.
- ALL STORM DRAIN PIPE 4"-12" TO BE PVC SDR-26 CONFORMING TO REQUIREMENTS OF ASTM D-3034.
- ALL STORM DRAIN PIPE 15" AND GREATER SHALL BE ADS HDPE DOUBLE WALL PIPE OR EQUAL.
- STORM DRAIN TRENCHING PER UCS STANDARDS.

SANITARY SEWER NOTES

- ALL SEWER RELATED WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE ROSS VALLEY SANITATION DISTRICT (RVD) STANDARD PLANS AND SPECIFICATIONS.
- INDEPENDENT OF A BUILDING PERMIT, A SEWER PERMIT FROM THE DISTRICT IS REQUIRED FOR ALL PROPOSED SEWER LATERAL CONNECTIONS OUTSIDE THE DEDICATED FOOTPRINT. THE CONTRACTOR SHALL APPLY FOR A SEWER PERMIT AT THE DISTRICT OFFICE PRIOR TO THE START OF WORK.
- NOTIFY THE SANITATION DISTRICT 12-HOURS PRIOR TO THE START OF SANITARY SEWER CONSTRUCTION.
- IT IS RECOMMENDED THAT A CCTV INSPECTION IS DONE FOR BOTH UPSTREAM AND DOWNSTREAM PORTIONS OF THE EXISTING SEWER LATERALS, FROM THE POINT OF CONNECTION, TO ASSESS THE CONDITION OF THE EXISTING SERVICE LINE.

GRADING NOTES

- NO GRADING SHALL BE COMMENCED PRIOR TO OBTAINING A GRADING PERMIT FROM THE TOWN OF SAN ANSELMO, ENGINEERING DEPARTMENT. NO MASS GRADING SHALL BE PERFORMED BETWEEN OCTOBER 15 AND MAY 15, WITHOUT PRIOR WRITTEN CONSENT FROM THE TOWN ENGINEER. SITE GRADING IS LIMITED TO MAY 15 TO SEPTEMBER 15, WITHOUT PRIOR WRITTEN CONSENT FROM THE TOWN ENGINEER.
- THE CONTRACTOR SHALL COMMENCE GRADING AS SOON AS POSSIBLE. GRADE ALL GRADING AND SPECIFY LOCATIONS FOR UTILITY TRENCH DRAINS AS NECESSARY.
- ALL PERMANENT FILL SLOPES SHALL BE CONSTRUCTED AT SLOPES OF 2:1 OR FLATTER.
- ALL BANKS AND ALL GRADED AREAS SHALL BE TREATED PER EROSION CONTROL PLAN BY OCTOBER 1ST, OR AS DIRECTED BY TOWN ENGINEER.
- EXCESS MATERIAL TO BE PLACED AT THE DIRECTION OF THE OWNER.
- ALL TREES TO BE SAVED, WITHIN OR ADJACENT TO THE DESIGNATED GRADING AREA SHALL BE FENCED AT THEIR Drip LINES. SEE TREE PROTECTION NOTES AND CONDITIONS OF APPROVAL.
- ALL IMPORTED FILL SHALL BE INSPECTED AND CERTIFIED AS CLEAN FILL BY THE GEO-TECHNICAL ENGINEER.
- ALL EARTHWORK AND SITE GRADING OPERATIONS INCLUDING CUTTING, FILLING, DRAINAGE PROVISIONS, AND ROADWAY CONSTRUCTION SHALL BE PERFORMED UNDER THE OBSERVATION, AND APPROVAL OF A REPRESENTATIVE OF THE PROJECT GEO-TECHNICAL ENGINEER DURING ACTUAL FIELD OPERATIONS AND SHALL CONFORM TO THE RECOMMENDATIONS SET FORTH IN THE PROJECT GEO-TECHNICAL REPORT AND RECOMMENDATIONS.
- THE GEO-TECHNICAL ENGINEER SHALL BE NOTIFIED AT LEAST 48 HOURS PRIOR TO PERFORMING ANY GRADING WORK.
- LIMIT OF GRADING SHALL BE SURVEYED AND MARKED ON SITE. ALL TREES DESIGNATED FOR PRESERVATION WITHIN AND IMMEDIATELY ADJACENT TO THE LIMIT OF GRADING SHALL BE TAGGED AND FENCED BEFORE GRADING. SEE TREE PROTECTION NOTES AND CONDITIONS OF APPROVAL.
- GRASS, WEEDS AND ALL ROOTS SHALL BE REMOVED BY STRIPING TO A MINIMUM DEPTH SPECIFIED BY THE GEO-TECHNICAL ENGINEER. THE STRIPPING SHALL BE STOCKPILED AT THE SITE FOR USE AS TOPSOIL IN PLANTING AREAS.
- STOCKPILES OF EXCESS FILL MATERIALS SHALL BE MAINTAINED IN A MANNER SO AS DUST, MUD OR SILTATION DO NOT CAUSE IRRITATION OR HARM BEYOND LIMITS OF GRADING. SUCH STOCKPILES SHALL NOT BE PERMITTED BETWEEN OCTOBER 15 AND APRIL 1 OF THE YEARLY CALENDAR.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL NOTIFICATIONS REQUIRED IN THE SOILS ENGINEER AGREEMENT LETTER SIGNED BY THE DEVELOPER AND SOILS ENGINEER.
- IF ANY ARCHAEOLOGICAL, HISTORICAL, OR PALEONTOLOGICAL MATERIALS ARE UNINTENDEDLY DISCOVERED OR IDENTIFIED DURING CONSTRUCTION, DEDICATED DURING PROJECT GRADING AND CONSTRUCTION OPERATIONS, WORK WILL CEASE IMMEDIATELY AND A QUALIFIED ARCHAEOLOGIST WILL BE BROUGHT TO THE SITE FOR AN ASSESSMENT OF THE RESOURCES. THE ARCHAEOLOGIST WILL COORDINATE WITH THE CITY OF MILL VALLEY PLANNING DEPARTMENT TO DETERMINE APPROPRIATE MITIGATION. SUCH MEASURES MAY INCLUDE AVOIDANCE, REMOVAL, AND PRESERVATION, AND/OR RECORDATION IN ACCORDANCE WITH ACCEPTED PROFESSIONAL ARCHAEOLOGICAL PRACTICE.
- THE PROJECT CIVIL ENGINEER SHALL OBSERVE THE PLACEMENT OF ALL SUBDRAIN CONNECTIONS AND CLEAUNOTS, THE LOCATION OF WHICH SHALL BE SHOWN ON THE RECORD DRAWINGS (AS-BUILT).

PROJECT SAFETY REQUIREMENTS

- AT ALL TIMES DURING CONSTRUCTION AND MAINTENANCE (INCLUDING TEMPORARY OR PERMANENT FACILITIES) THE CONTRACTOR AND OWNER SHALL USE PROPER PROCEDURES COMPLYING WITH ALL BUILDING CODES, STATE LAW, THE NATIONAL ELECTRIC CODE (NEC), THE NATIONAL ELECTRIC SAFETY CODE (NESC), GENERAL INDUSTRY SAFETY ORDERS (GISO), CONSTRUCTION SAFETY ORDERS (CSO), AND THE FEDERAL AND STATE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA AND CAL-OSHA) REQUIREMENTS.
- STRICT COMPLIANCE WITH STATE LAW REGARDING WORKING CLEARANCES WITH ELECTRIC LINE AND GAS LINES IS MANDATORY. UNDER NO CIRCUMSTANCE OR DURING ANY ACTIVITY SHOULD AN UNQUALIFIED PERSON(S) OR THING(S) MAY COME WITHIN TEN (10) FEET, ANY DIRECTION OF LIVE OVERHEAD ELECTRIC LINES OR HIGH PRESSURE GAS LINES, UNLESS EFFECTIVE SAFEGUARDS ARE PUT IN PLACE.
- THE OPERATION OF EQUIPMENT SUCH AS CRANES, DERRICKS, DRILLING RIGS, LOADERS, EXCAVATORS, OR OTHER SIMILAR EQUIPMENT IN WHICH ANY PART OF WHICH IS CAPABLE OF VERTICAL, LATERAL OR SWINGING MOTION IS PROHIBITED TO OPERATE WITHIN TEN (10) FEET ANY DIRECTION OF LIVE OVERHEAD ELECTRIC LINES OR UNDERGROUND GAS LINES. UNDER TITLE 8 OF THE CALIFORNIA CODE OF REGULATIONS, THE GENERAL CONTRACTOR, OWNERS, AND SUB CONTRACTORS ARE LEGALLY RESPONSIBLE FOR SAFETY OF CONSTRUCTION WORKERS, WHICH CARRIES CRIMINAL AND CIVIL LIABILITY.
- THE OWNER, GENERAL CONTRACTOR, AND THE ASSOCIATION RESPONSIBLE FOR THE TEMPORARY WORK IN THE VICINITY OF ELECTRIC AND GAS LINES MUST NOTIFY THE OPERATOR OF THE LINE(S) AND PG&E AT LEAST 40 HOURS BEFORE THE WORK BEGINS. NO WORK SHALL BEGIN UNTIL THE PERSONS RESPONSIBLE FOR THE TEMPORARY WORK AND PG&E HAVE MADE SATISFACTORY ARRANGEMENTS TO DE-ENERGIZE, GROUND, MOVE, OR RELOCATE THE LINE TO PREVENT ACCIDENTAL CONTACT. GAS LINES MUST BE SHUT DOWN OR HAVE PG&E PERSONNEL ON SITE DURING ALL EXCAVATION TO AVOID ACCIDENTAL CONTACT. SIGNS INDICATING THAT OVERHEAD LINES AND UNDERGROUND GAS LINES ARE WITHIN THE WORK ZONE MUST BE INSTALLED, APPROVED BY PG&E AND LOCATED CONSPICUOUSLY ON SITE DURING CONSTRUCTION.
- THE GENERAL CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE PROJECT, INCLUDING SAFETY OF ALL PERSONNEL CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND THE CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD THE DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT.
- THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE REQUIREMENTS OF THE DIVISION OF INDUSTRIAL SAFETY PERTAINING TO "CONFINED SPACE". ANY MANHOLE, CULVERT, DRAIN INLET OR TRENCH THAT IS NOT READILY VENTILATED MAY BE CONSIDERED "CONFINED SPACE".
- THE CONTRACTOR SHALL POST EMERGENCY TELEPHONE NUMBERS FOR PUBLIC WORKS, AMBULANCE, POLICE, AND FIRE DEPARTMENTS AT THE JOB SITE.
- THE CONTRACTOR SHALL PROVIDE LIGHTS, SIGNS, BARRICADES, FLAGGER OR OTHER DEVICES NECESSARY TO PROVIDE FOR PUBLIC SAFETY AND TO MAINTAIN TRAFFIC CONTROL AT ALL TIMES.

SANITARY SEWER NOTES

- ALL SEWER CONSTRUCTION AND CONNECTIONS SHALL BE IN ACCORDANCE WITH THE SANITARY DISTRICT STANDARD SPECIFICATIONS AND DRAWINGS.
- THE CONTRACTOR SHALL NOTIFY THE DISTRICT 48 HOURS PRIOR TO STARTING ANY SEWER WORK.
- FOR ANY WORK IN A PUBLIC STREET, THE CONTRACTOR SHALL OBTAIN AN ENCROACHMENT PERMIT THE TOWN OF SAN ANSELMO DEPARTMENT OF ENGINEERING.
- THE CONTRACTOR SHALL POTHOLE ALL UNDERGROUND UTILITIES AND SEWERS PRIOR TO ANY TRENCHING OPERATIONS.
- THE CONTRACTOR SHALL SHORE ALL EXCAVATIONS IN ACCORDANCE WITH APPLICABLE SAFETY ORDERS.
- ALL 4" GRAVITY SEWER LATERALS SHALL BE PVC (C-900) HAVING A DR-16. JOINTS AND FITTING TO BE PREMANUFACTURED WITH SAME MATERIAL.
- ANY VIOLATION OF THE DISTRICT'S PROCEDURES, ORDINANCE, RULES OR REGULATIONS WILL RESULT IN A HOLD BEING PLACED ON THE PROJECT CONSTRUCTION AND POSSIBLY A FINE OR IMPRISONMENT PER THE CITY'S SANITARY CODE.

GRADING QUANTITIES

- ESTIMATED GRADING QUANTITIES:
FL: 54.4 CUYD.
CUT: 23.2 CUYD.
NET: 68.3 CUYD. (EXPORT)
TOTAL: 181 CUYD.

TOPOGRAPHIC INFORMATION

SURVEY INFORMATION USED IN THE DESIGN WAS PROVIDED BY STEPHEN J. FLATLAND, L.S., DATED OCTOBER, 2015, AND PAUL KROHN, P.E., DATED MAY, 2021.

VERTICAL CONTROL:

ELEVATIONS ARE BASED ASSUMED DATUM 100.00' AT DOOR THRESHOLD AS SHOWN ON THE TOPOGRAPHIC MAPS PREPARED BY THE ABOVE.

HORIZONTAL CONTROL:

BOUNDARY IS FROM RECORD INFORMATION, AND HAS BEEN LOCATED ON THE TOPOGRAPHY BY THE PROJECT LAND SURVEYOR. THIS IS NOT A BOUNDARY SURVEY.

PLAN INDEX

1 OF 8	CONSTRUCTION NOTES, ABBREVIATIONS, MAPS	C1.0
2 OF 8	EROSION CONTROL PLAN	C3.0
3 OF 8	EROSION CONTROL DETAILS	C3.1
4 OF 8	SITE PLAN & STORMWATER MANAGEMENT	C4.0
5 OF 8	GRADING & DRAINAGE PLAN	C4.1
6 OF 8	SITE DRAINAGE UTILITY PLAN	C4.2
7 OF 8	CONSTRUCTION DETAILS	C5.0
8 OF 8	CONSTRUCTION DETAILS	C5.1

SYMBOLS

SECTION TAG:
DRAWING NUMBER
C_x.x
SHEET NUMBER

REVISION NUMBER
1

DETAIL TAG:
DETAIL NUMBER
C_x.x
SHEET NUMBER

KEY NOTE
2

DIMENSION TO
FACE OF FINISH

ABBREVIATIONS:

CO	CLEAN OUT
DN	DOWN
F.F.	FINISH FLOOR ELEVATION
FL	FLOW LINE
IE	INVERT ELEVATION
LF	LINEAR FOOT
N	NEAR
RE	RIM ELEVATION
SD	STORM DRAIN
S	SLOPE
S.A.P.	SEE ARCHITECTURAL PLANS
SS	SANITARY SEWER
TC	TOP OF CURB
TH	TOP OF WALL ELEVATION

DESIGN TEAM:

PROJECT OWNER:	LANDSCAPE ARCHITECT:	CIVIL ENGINEER:	GEOTECHNICAL:
JAMES AND KARIN BLOM	ROTH LAMOTTE	VIA ATELIER, INC.	SALEM HOMES ASSOCIATES, INC.
31 LINCOLN PARK	LANDSCAPE ARCHITECTURE		1620 GRANT AVENUE, STE. 2, NOVATO, CA
SAN ANSELMO, CA 94460			T: (415) 892-8528
			E: VLA@VIA-ENG.COM
			CONTACT: E. VINCENT HOWES
			CONTACT: SHELBY LAMOTTE

PLATE

4/6/2022
Date:
VIA ATELIER, INC.

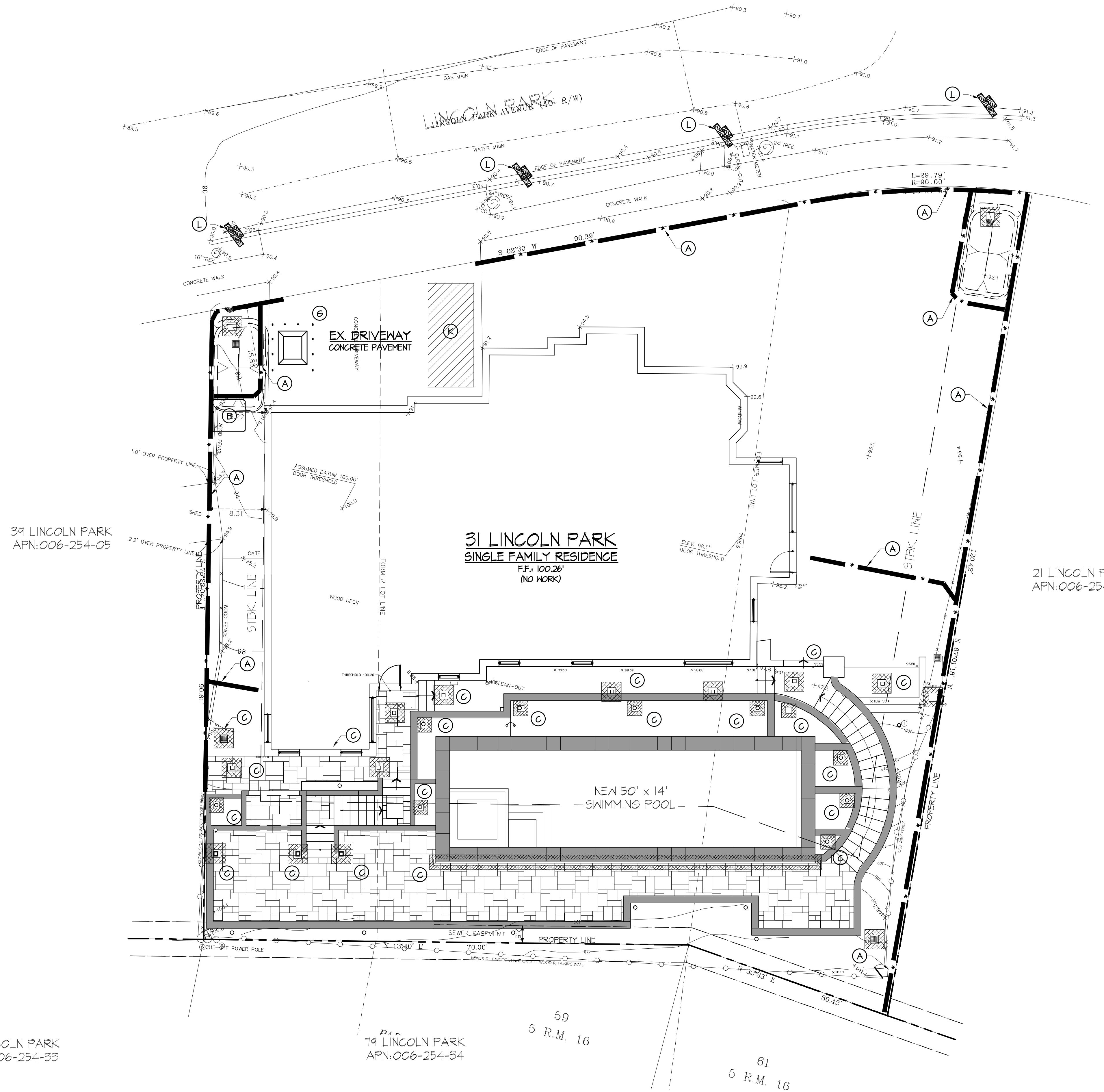
9 Brookside Ct. T14-6176 Email: VLA@VIA-ENG.COM
Ph: (415) 892-8528

Plans Prepared By:
VIA ATELIER, INC.

Drawn By:
Reviewed: V.I.

SHEET:

<b



EROSION & SEDIMENT CONTROL PLAN

SCALE: 1" =

ION CONTROL LEGEND:

STALL FIBER ROLLS PER CASQA SE-5
* ■ ■ ■ *

STALL SANITARY WASTE MANAGEMENT (PORTABLE
RESTROOM) PER CASQA WM-9

STALL STORM DRAIN INLET PROTECTION PER CASQA
E-10

IMMEDIATELY REVEGETATE WITH LANDSCAPING OR
UTILIZE GEOTEXTILE MATTING (PER CASQA EC-1) OF
STURBED SOILS UNTIL LANDSCAPE IMPROVEMENTS
ARE COMPLETED. APPROX. LIMITS SHOWN.

WATER CONTROL, TO IMPLEMENT THROUGHOUT THE
CONSTRUCTION SITE DURING ALL PHASES OF
CONSTRUCTION IN ACCORDANCE WITH BMP TABLE:

CONSTRUCTION ENTRANCE PER CASQA TC-1 (NOT USED)

CONCRETE WASH AREA

FREE FENCE (Tree Protection Zone)

SETS OF WORK

INSTRUCTION STORAGE AREAS PER CASQA WM-1

STALL GRAVEL BAG SEDIMENT TRAP DURING
CONSTRUCTION TO PREVENT SEDIMENT TRANSPORT PER
CASQA SE-6.

Reviewed: 9/1.
SHEET:
C3.0

Purpose:
A fiber roll consists of straw, coir, or other biodegradable materials bound into a tight tubular roll wrapped by netting, which can be biodegradable or natural. Additionally, gravel core fiber rolls are available, which contain an imbedded ballast material such as gravel or sand for additional weight when staking the rolls are not feasible (such as use as inlet protection). When fiber rolls are placed at the toe and on the face of slopes along the contours, they intercept runoff, reduce its flow velocity, release the runoff as sheet flow, and remove sediment from the runoff (through sedimentation). By interrupting the length of a slope, fiber rolls can also reduce sheet and fill erosion until vegetation is established.

Application:

- Along the toe, top, face, and at grade breaks of exposed and erodible slopes to shorten slope length and spread runoff as sheet flow.
- At the end of a downward slope where it transitions to a steeper slope.
- Along the perimeter of a project.
- As check dams in unlined ditches with minimal grade.
- Down slope of exposed soil areas.
- At operational storm drains as a form of inlet protection.
- Around temporary stockpiles.

Installation:
Follow manufacturer's recommendations for installation. In general, these will be as follows:

- Fiber rolls should be placed at a maximum interval of 20 ft.
- Slope inclination between 4:1 and 2:1 (H:V): Fiber rolls should be placed at a maximum interval of 15 ft. (a closer spacing is more effective).
- Slope inclination 2:1 (H:V) or flatter: Fiber rolls should be placed at a maximum interval of 10 ft. (a closer spacing is more effective).
- Prepare the slope for the beginning installation.
- Dig small trenches across the slope on the contour. The trench depth should be $\frac{1}{3}$ to 1/3 of the thickness of the roll, and the width should equal the roll diameter, in order to provide area to backfill the trench.
- It is critical that rolls are installed perpendicular to water movement, and parallel to the slope contour.
- Start building trenches and installing rolls from the bottom of the slope and work up.
- It is recommended that pilot holes be driven through the fiber roll. Use a straight bar to drive holes through the roll and into the soil for the wooden stakes.
- Turn the end of the roll up slope to prevent runoff from going around the roll.
- Stake fiber rolls into the trench.
- Drive stakes at the end of each fiber roll and spaced 4 ft maximum on center.
- Use wood stakes with a nominal classification of 0.75 by 0.75 in. and minimum length of 24 in.
- If more than one fiber roll is placed in a row, the rolls should be overlapped, not abutted.

Inspection and maintenance:

- BMPs must be inspected in accordance with General Permit requirements for the associated project type and risk level. It is recommended that at a minimum, BMPs be inspected weekly, prior to forecasted rain events, daily during extended rain events, and after the conclusion of rain events.
- Repair or replace split, torn, unraveling or slumping fiber rolls.
- If the fiber roll is used as a sediment capture device, or as an erosion control device to maintain sheet flows, sediment that accumulates in the BMP should be periodically removed in order to maintain BMP effectiveness. Sediment should be removed when sediment accumulation reaches one-third the designated sediment storage depth.
- If fiber rolls are used for erosion control, such as in a check dam, sediment removal should not be required as long as the system continues to control the grade. Sediment control BMPs will likely be required in conjunction with this type of application.
- Repair any rills or gullies promptly.

1 FIBER ROLL
CASQA-BMP SE-5

SECTION
SCALE: NO SCALE

3 STORM DRAIN INLET PROTECTION
CASQA-BMP SE-10

SCALE: NO SCALE

NOTES:

1. Intended for short-term use.
2. Use to inhibit non-storm water flow.
3. Allow for proper maintenance and cleanup.
4. Bags must be removed after adjacent operation is completed.
5. Not applicable in areas with high silt and clays without filter fabric.

TYPICAL PROTECTION FOR INLET ON GRADE
DI PROTECTION TYPE 3

NOTES:

1. Intended for short-term use.
2. Use to inhibit non-storm water flow.
3. Allow for proper maintenance and cleanup.
4. Bags must be removed after adjacent operation is completed.
5. Not applicable in areas with high silt and clays without filter fabric.

TYPICAL PROTECTION FOR INLET ON SUMP
DI PROTECTION TYPE 3

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- 2

71 LINCOLN PARK
APN:006-254-33

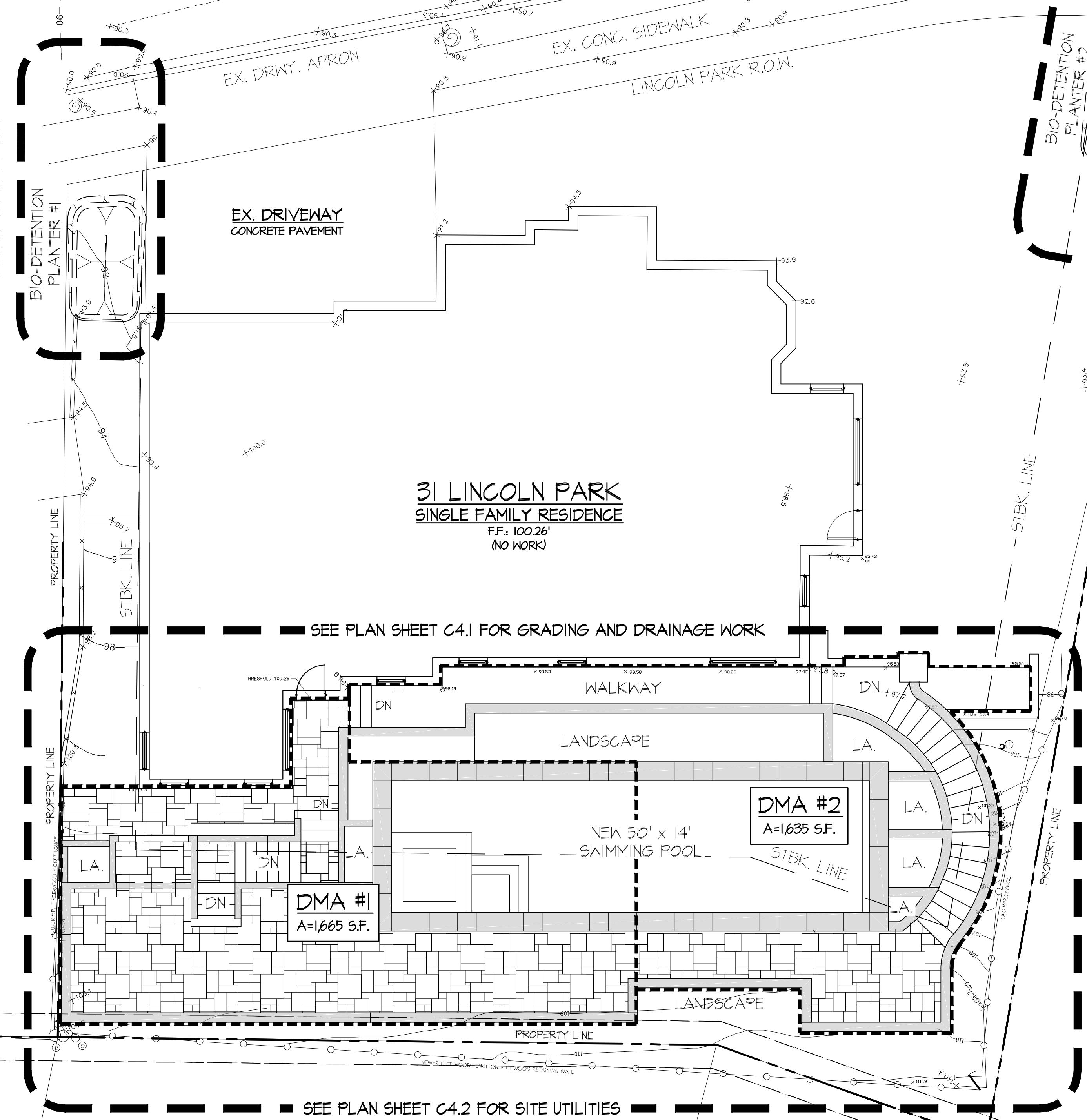
39 LINCOLN PARK
APN:006-254-05

SITE PLAN
SCALE: 1" = 8'

81 LINCOLN PARK
APN:006-254-35

79 LINCOLN PARK
APN:006-254-34

SEE SHT. C4.1 AND C4.2 FOR
DESIGN INFORMATION



SEE SHT. C4.1 AND C4.2 FOR
DESIGN INFORMATION

21 LINCOLN PARK
APN:006-254-08

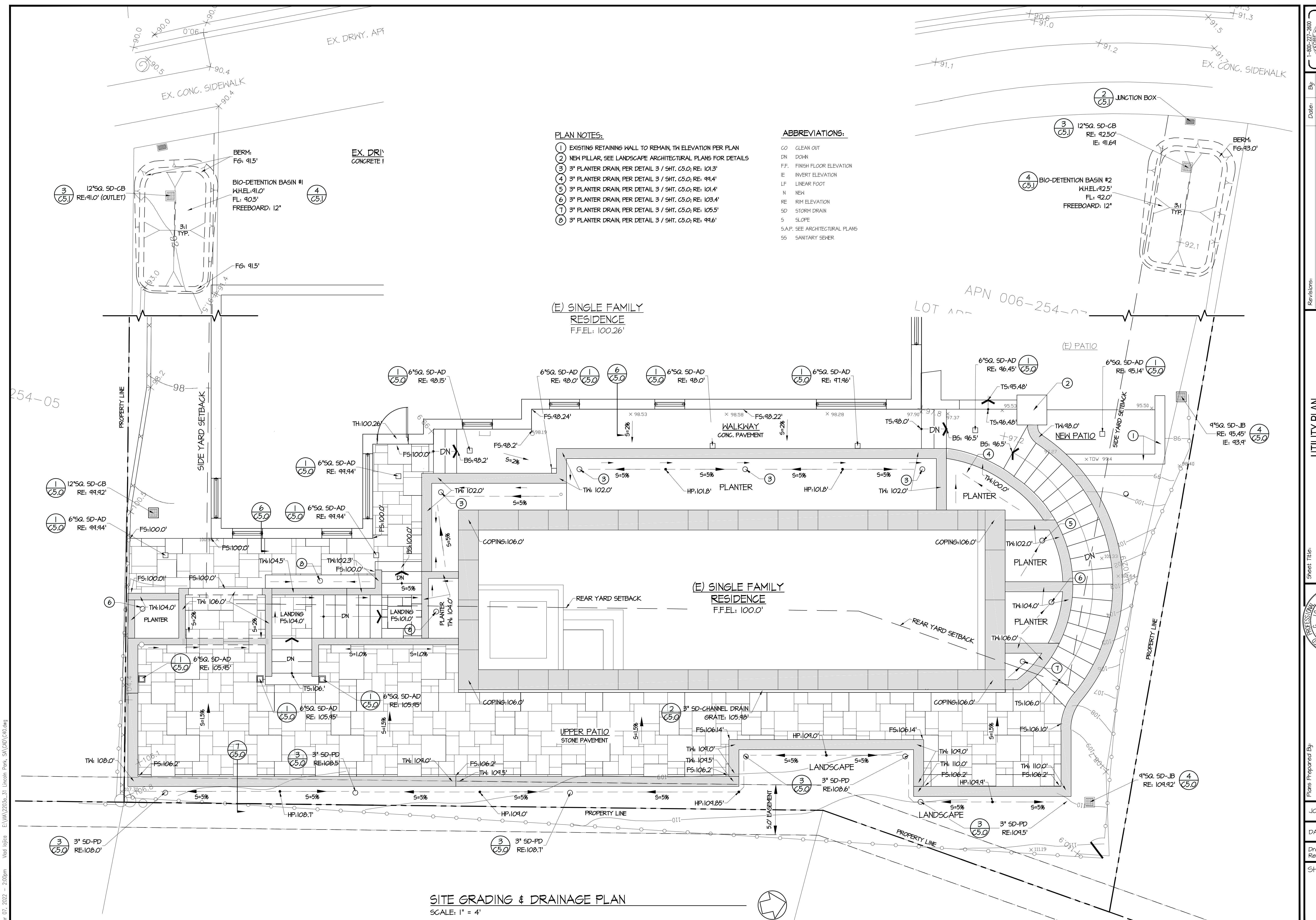
STORMWATER MANAGEMENT

Current Conditions

Project: 31 Lincoln Park, San Anselmo		
	Area [s.f.]	Coefficient
DMA #1		
Site Impervious Surface - Pavement	34	1.00
Site Semi-Pervious Surface	165	0.75
Landscape	1,466	0.10
Total Area:	1,665	0.18
DMA #2		
Site Impervious Surface - Pavement	607	1.00
Site Semi-Pervious Surface	108	0.75
Landscape	920	0.10
Total Area:	1,635	0.48

Post-Project Conditions

	Area [s.f.]	New	Total	Coefficient
DMA #1				
Site Impervious Surface - Pavement	1,595	1,595	1,595	1.0
Site Semi-Pervious	0	0	0	0.8
Landscape	70	70	70	0.1
Total Area:	1,665	1,602	1,602	64.08
DMA #2				
Site Impervious Surface - Pavement	1,318	1,318	1,318	1.0
Site Semi-Pervious	0	0	0	0.0
Landscape	317	317	32	0.1
Total Area:	1,635	1,350	1,350	53.99
Treatment Area Required [s.f.]:	1,602	4%	1,350	4%



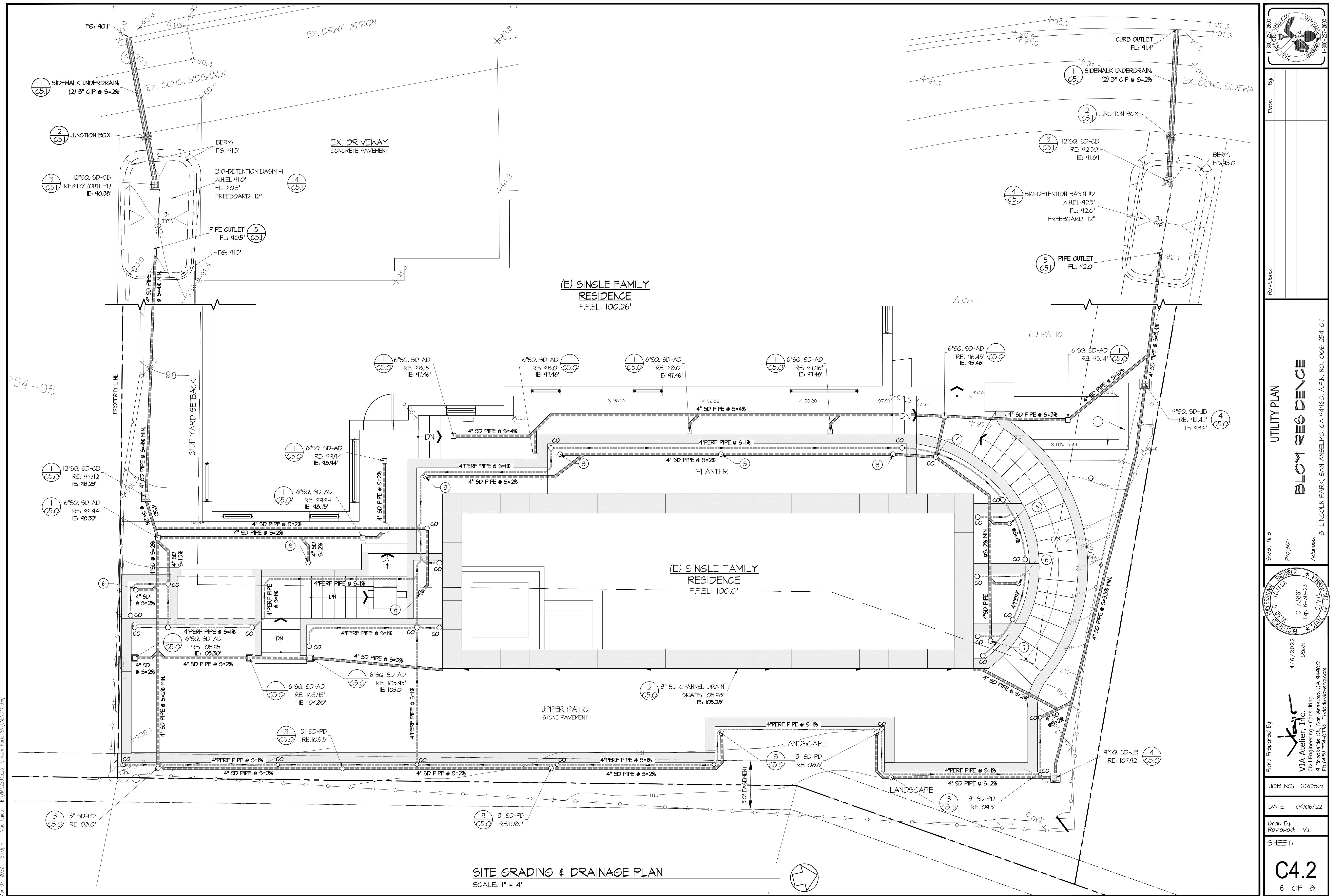
A circular metal stamp with a double outer ring. The outer ring contains the text "REGISTRY OF LABOR" at the top and "CIVIL SERVICE COMMISSION" at the bottom. The inner circle contains the text "STATE OF CALIFORNIA" at the bottom, "C 73861" in the center, and "EXP. 6-30-23" at the top. A five-pointed star is located at the bottom left of the inner circle.

 4 / 6 / 2022 Date:
Atelier, Inc.
Engineering - Consulting
9005 S. Brookside Ct., San Anselmo, CA 94960
(510) 774-6776 E: vlad@via-eng.com

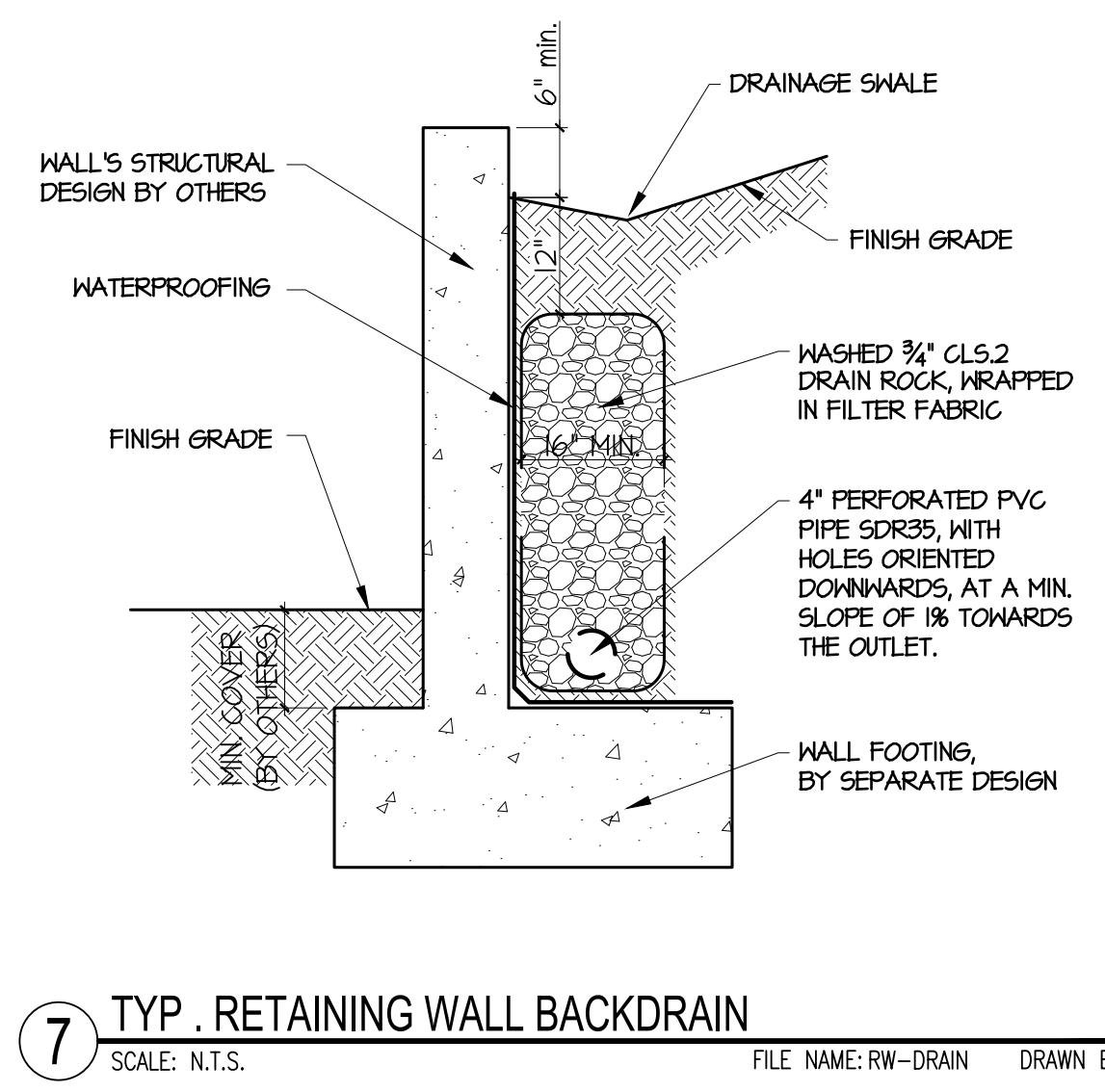
VIA Civil B
q Bro
Ph:(4)
DB NO: 2203.a
ATE: 04/06/'22

viewed: V.I.

C4.1

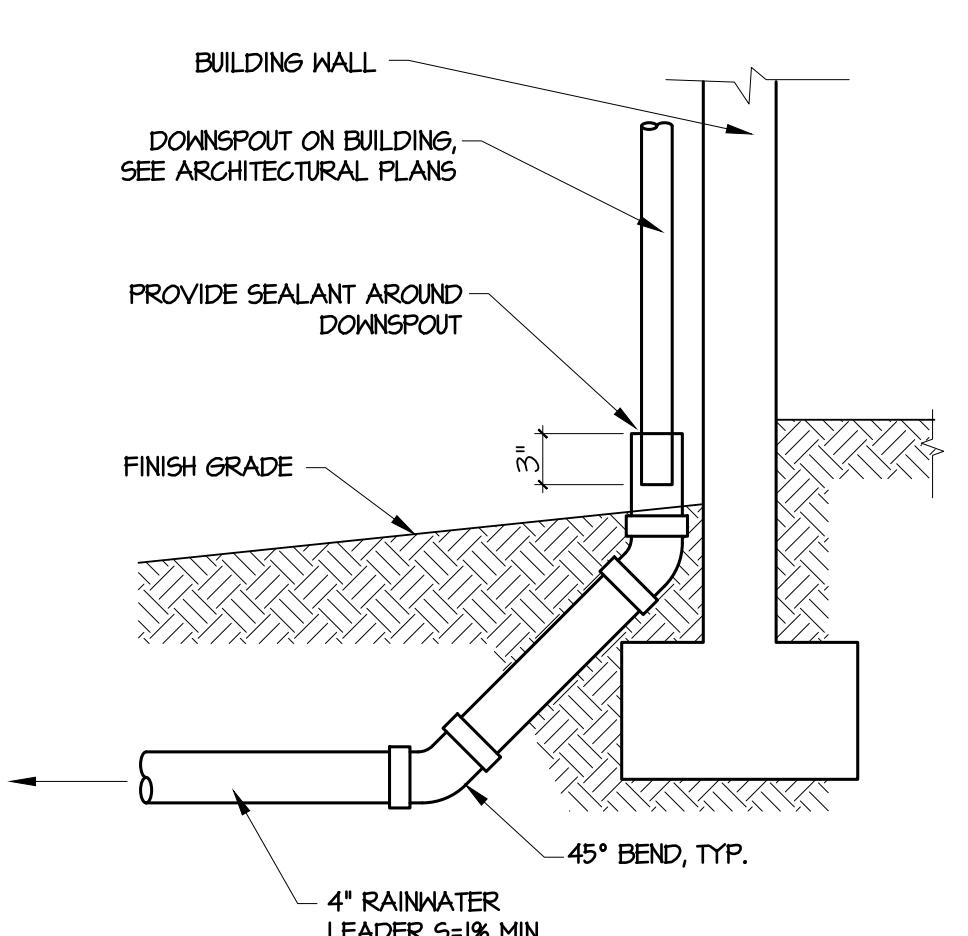


Apr 07, 2022 - 2:00pm Vladi lojica E:\VA\2203a_31 Lincoln Park, SA\CAD\C40.dwg



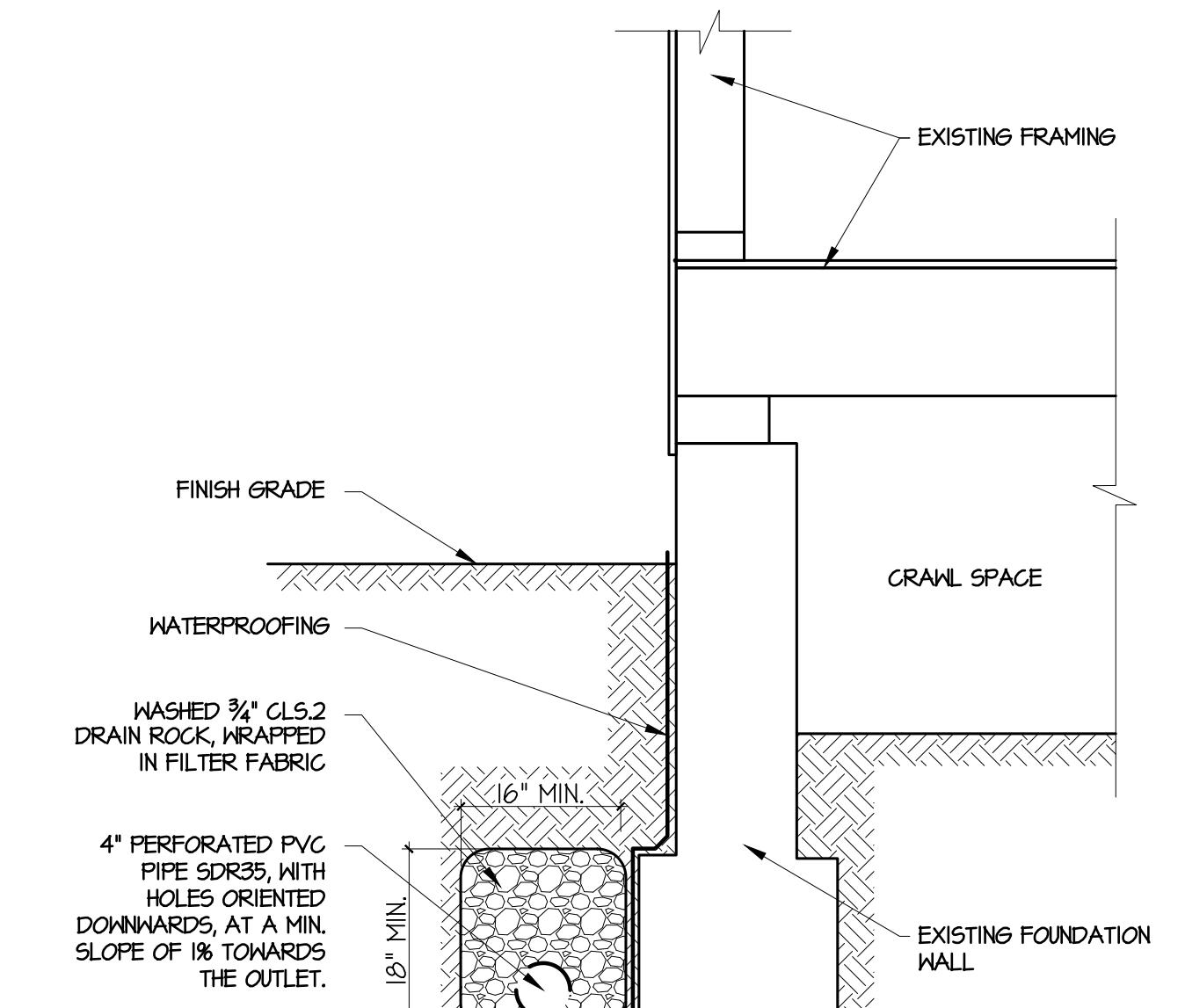
7 TYP. RETAINING WALL BACKDRAIN

FILE NAME: RW-DRAIN DRAWN BY: V.I.



5 DS TO SD SYSTEM (TYP.)

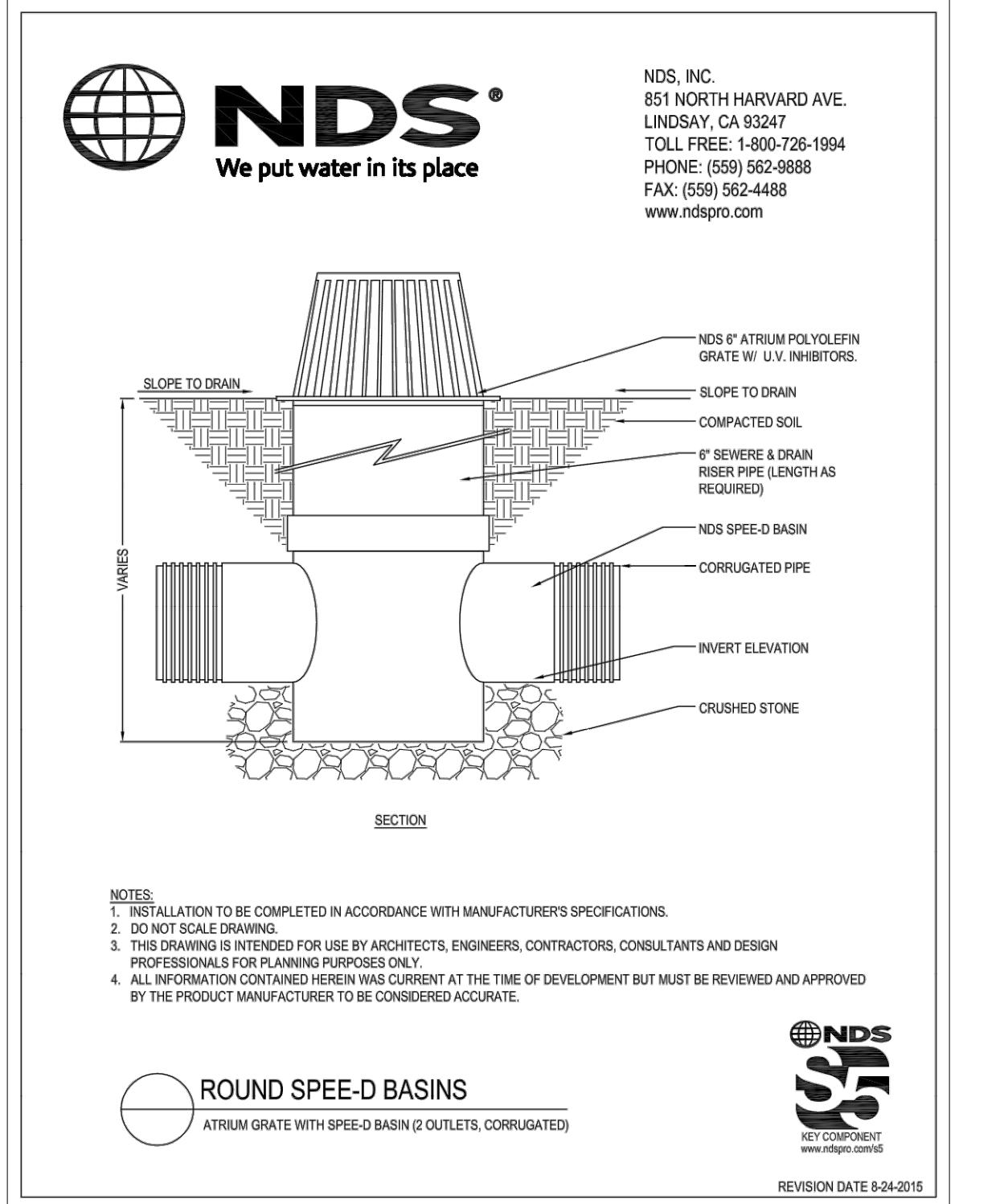
J 1 1/2"=1'-0" FILE N



6 FOUNDATION DRAINAGE

6 SCALE: M

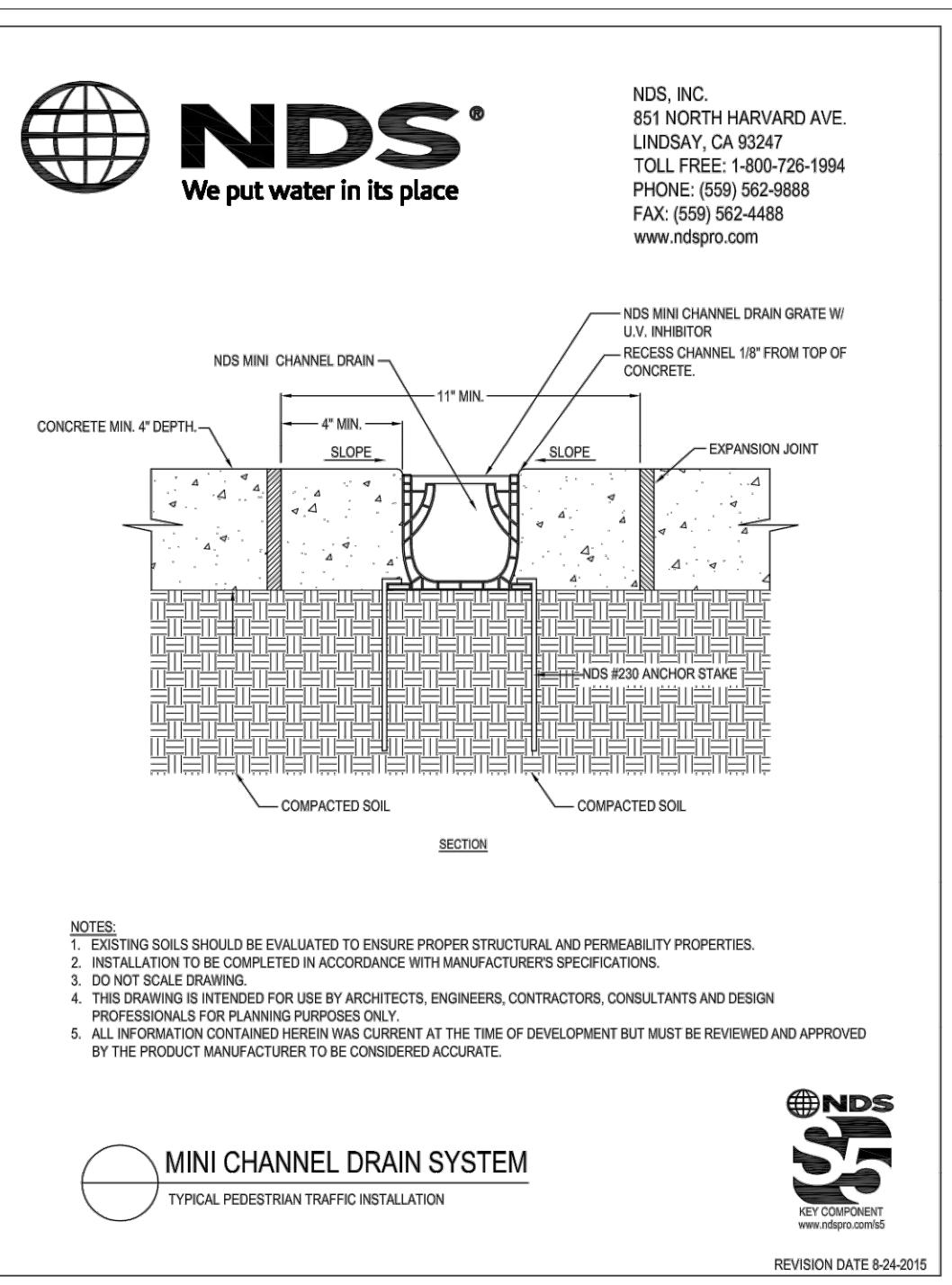
FILE NAME: RW-DRAIN DRAWN BY: V.I.



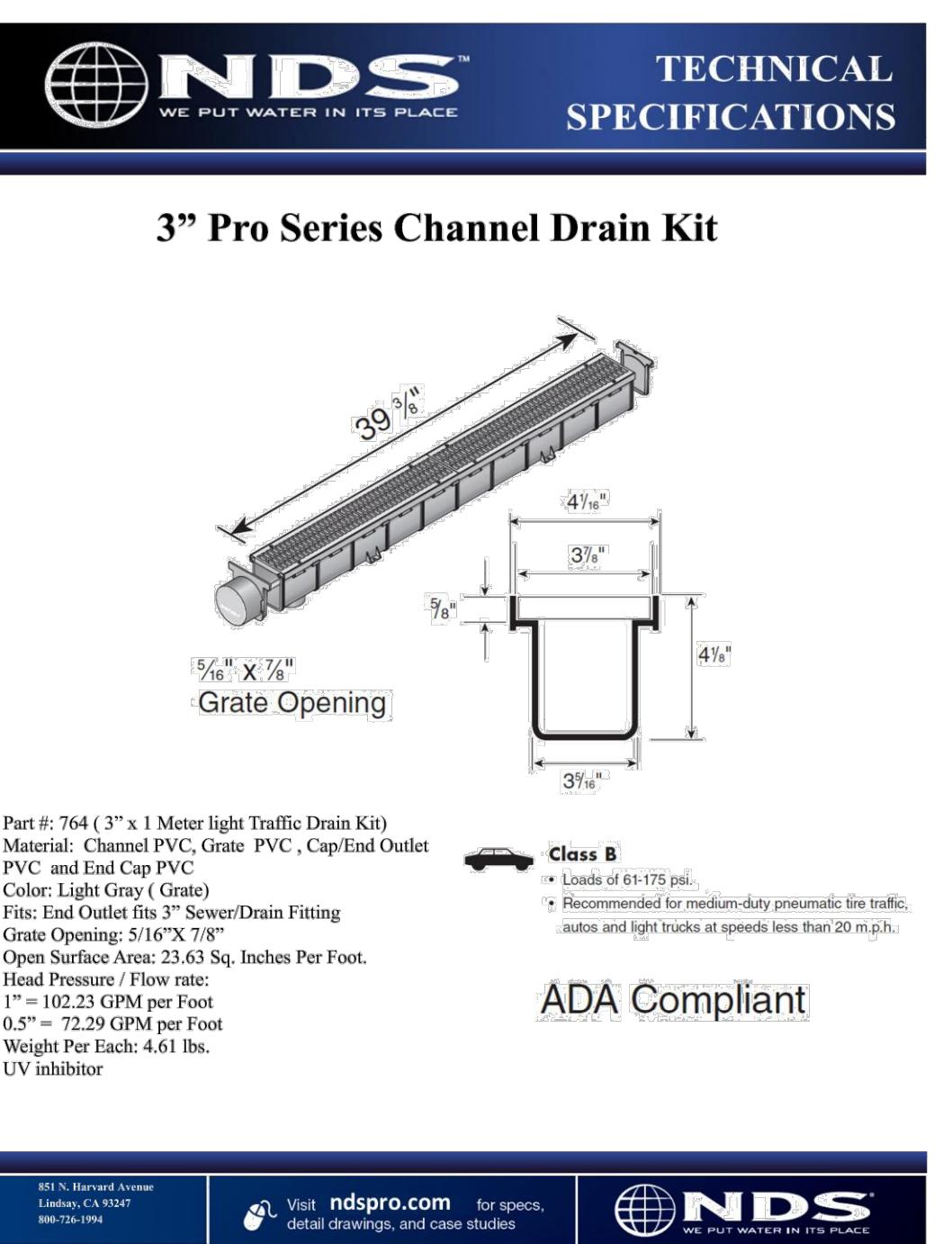
1 DRAINAGE INLET AT PAVED SURFACE

SCALE: N.T.S.

— DRAWN BY: MANUF



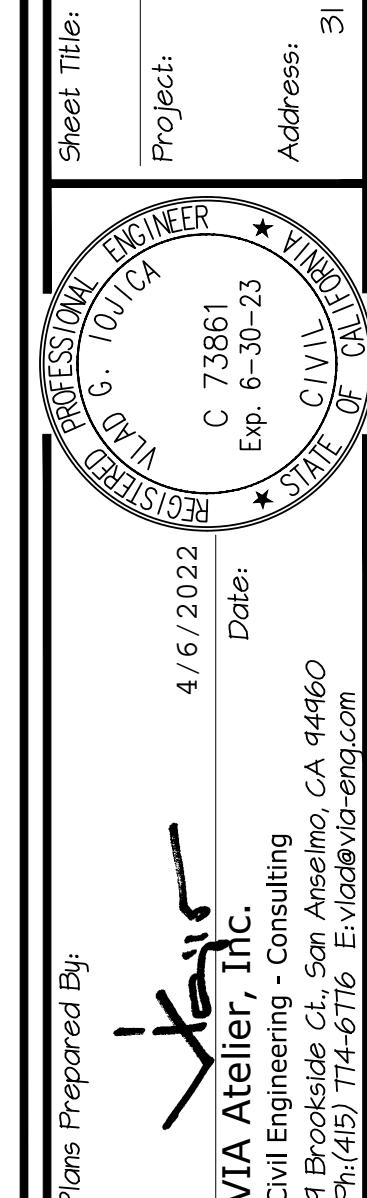
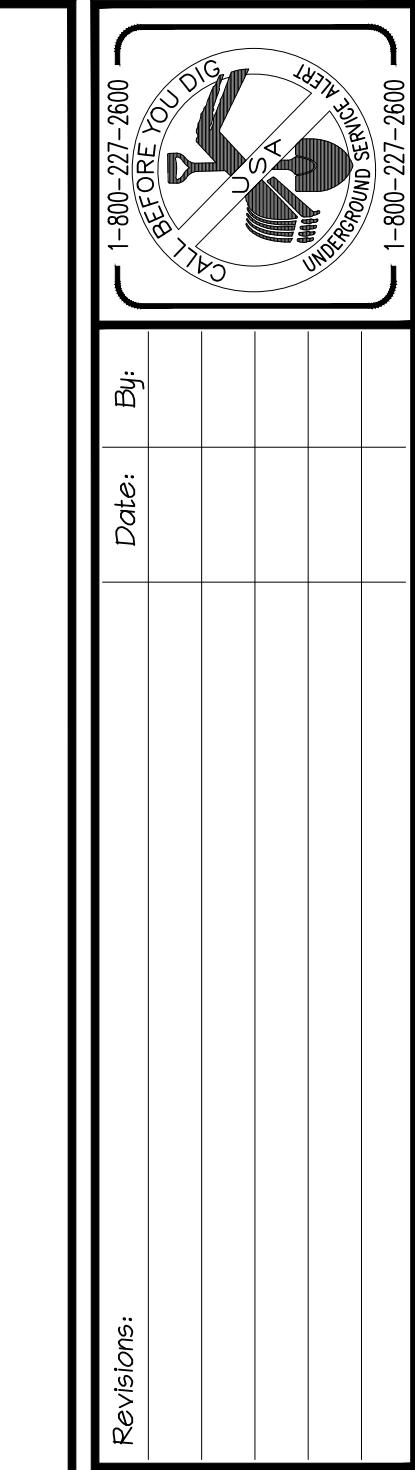
SECTIONS AND DETAILS



TRENCH DRAIN

SCALE: N.T.S.

DRAWN BY: MANUF



C5.0

