

# SUNY CORTLAND

## MILLER ADMINISTRATION BUILDING STAIRS AND WALK REPLACEMENT

APRIL 19, 2024  
PROJECT No. 20220020



SUNY CORTLAND  
22 GRAHAM AVE  
CORTLAND, NY 13045

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102 WEST DIVISION STREET, SUITE 100  
SYRACUSE, NEW YORK 13204 - 1434  
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**king + king**  
ARCHITECTS



MILLER STAIRS and WALKS - LEGEND

EXISTING	PROPOSED	DESCRIPTION	EXISTING	PROPOSED	DESCRIPTION
---	CLL	CONTRACT LIMIT LINE	---	AD	AREA DRAIN
---	---	STREET LINE / PROPERTY EDGE	---	---	TRAFFIC SIGN
---	---	CONTOUR	---	---	FIRE HYDRANT
---	---	GRANITE CURB	---	---	WATER VALVE
---	---	PAVEMENT EDGE	---	---	CATCH BASIN / STORM INLET
---	---	SAUCUT LINE	---	---	VINYL CLAD CHAIN LINK FENCE
---	---	CURB REMOVAL	---	---	SPOT GRADE
---	---	UTILITY REMOVAL	---	---	F.V.
---	---	OVERHEAD WIRES	---	---	LFG
---	---	WATER LINE	---	---	HP
---	---	GAS LINE	---	---	TS
---	---	BURIED TELEPHONE LINE	---	---	BS
---	---	BURIED FIBER OPTIC LINE	---	---	TYP
---	---	BURIED DATA LINE	---	---	PLANTER
---	---	BURIED ELECTRIC LINE	---	---	TREES / SHRUBS
---	---	SANITARY SEWER - SIZE / TYPE	---	---	DRAINAGE FLOW DIRECTION
---	---	STORM SEWER - SIZE / TYPE	---	---	DETAIL FLAG
---	---	STORMWATER MANAGEMENT TRENCH	---	---	CONSTRUCTION NOTE
---	---	UTILITY POLE	---	---	REMOVE EXISTING PAVEMENT / PAVERS
---	---	UTILITY POLE WITH LIGHT	---	---	STANDARD CONCRETE WITH SCORING
---	---	GUY WIRE	---	---	PAVERS ON CONCRETE
---	---	METAL BOLLARD	---	---	LAWN 5" TOPSOIL, 50D

GRANITE TREADS AND PAVER NOTE -  
CORTLAND MILLER STAIRS and WALKS

- CONTRACTOR TO CONFIRM SIZE AND LAYOUT OF CAMPUS STOCKPILED GRANITE TREADS.  
1435 x 451 x 150 56 PIECES  
1531 x 451 x 150 101 PIECES  
1524 x 451 x 150 6 PIECES
- CONTRACTOR SHALL UTILIZE EXISTING CAMPUS GRANITE WITHIN STOCKPILE AREA INDICATED ABOVE. CONTRACTOR SHALL VERIFY ANY ADDITIONAL GRANITE NEEDED TO CONSTRUCT THE STAIRS AS DESIGNED ON THE "S" DRAWINGS. ALL GRANITE SHALL MATCH SIZE AND SHAPE. INFORM OWNER OF ANY ADDITIONAL MATERIALS NEEDED.
- CONTRACTOR TO CONFIRM SIZE AND LAYOUT OF CAMPUS STOCKPILED GRANITE TREADS.  
3400 PIECES OF DARK GRAY PAVERS
- CONTRACTOR SHALL UTILIZE EXISTING CAMPUS PAVERS WITHIN STOCKPILE AREA INDICATED ABOVE. CONTRACTOR SHALL ALSO PROVIDE ANY ADDITIONAL PAVERS NEEDED TO CONSTRUCT THE PLAZA AS DESIGNED ON THE "L" DRAWINGS. ALL PAVERS SHALL MATCH SIZE AND SHAPE.

SITE PREPARATION and CONSTRUCTION NOTES -  
CORTLAND MILLER STAIRS and WALKS

- EXISTING LAWN AREA REMAINS. PROTECT.
- STRIP EXISTING TOPSOIL AND STOCK PILE FOR REUSE ON-SITE IN AN AREA AS SHOWN ON PLANS OR AS DIRECTED BY THE OWNER. TEMPORARILY SEED ENTIRE PILE IMMEDIATELY AND SURROUND WITH SILT FENCE.
- EXISTING VEGETATION REMAINS. PROTECT AT ALL TIMES AS SHOWN ON THE PLANS AND AS SPECIFIED. DO NOT PARK VEHICLES/EQUIPMENT OR STORE MATERIALS WITHIN DRIP LINES OF TREES.
- REMOVE EXISTING VEGETATION, INCLUDING ALL STUMPS AND ROOTS AND DISPOSE OFF-SITE. BACKFILL VOID WITH IMPORTED GRANULAR BACKFILL, COMPACTED TO MINIMUM 95% OF IN PLACE DRY DENSITY.
- EXISTING PAVEMENT REMAINS. PROTECT. REPLACE ANY PAVEMENT DAMAGED DURING CONSTRUCTION.
- REMOVE EXISTING PAVEMENT SURFACE AND HALL OFF-SITE.
- EXISTING SITE UTILITY REMAINS. PROTECT.
- REMOVE EXISTING SITE UTILITY. DISPOSE OFF-SITE AND BACKFILL VOID WITH IMPORTED GRANULAR BACKFILL, COMPACTED TO MINIMUM 95% OF IN PLACE DRY DENSITY.
- EXISTING SITE FEATURE REMAINS. PROTECT.
- REMOVE EXISTING GRANITE CURB AND DISPOSE OFF-SITE, INCLUDING ANY ASSOCIATED FOOTINGS OR UNDERDRAINS. BACKFILL VOID WITH IMPORTED GRANULAR BACKFILL, COMPACTED TO MINIMUM 95% OF IN PLACE DRY DENSITY.
- DISMANTLE AND REMOVE ALL STAIR RAILINGS, SLEEVES AND SAFETY RAILS. DISPOSE OFF-SITE.
- SAW OUT NEAT, STRAIGHT EDGE, PRIOR TO PAVING. AT SIDEWALKS REMOVE AT NEAREST SCORE JOINT.
- VERIFY LOCATION, ELEVATION, INVERT AND TYPE OF EXISTING PIPE PRIOR TO CONSTRUCTION. NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCY IMMEDIATELY.
- ADJUST UTILITY TO FINISHED GRADE. FURNISH ALL LABOR AND MATERIAL TO ACCOMPLISH.
- MEET EXISTING LINE AND GRADE.
- SLIP DOBEL NEW CONCRETE WALK INTO EXISTING CONCRETE WALK OR BUILDING FOUNDATION WALL WITH NO. 4 SLIP DOBEL, 18" LONG, 12" O.C., 2" CLEAR MINIMUM FROM SURFACE. INSERT DOBELS EQUAL LENGTH INTO EXISTING AND NEW CONCRETE. PROVIDE EXPANSION JOINT AND SEALANT.
- ALIGN NEW EDGE WITH EXISTING.
- CAP END SILT TIGHT.
- CORE INTO EXISTING STRUCTURE TO ALLOW INSTALLATION OF PROPOSED PIPE. MORTAR VOID BETWEEN OUTSIDE OF PIPE WALL TO STRUCTURE EDGE WATER TIGHT. CLEAN EXISTING STRUCTURE OF ANY DEBRIS PRIOR TO INSTALLATION OF NEW PIPE.
- PROVIDE 0.5 CUBIC YARD NO. 1 STONE SUBSURFACE "DRYWELL" UNWRAPPED IN SOIL SEPARATION FABRIC THAT ACCEPTS 6" PIPE COVER WITH 5" TOPSOIL AND 50D.
- CONTRACTOR SHALL ALSO PROVIDE GRAVEL DRIP STRIP AS DETAIL IN VOID SPACE BELOW UPPER STAIR LANDING, IN FRONT OF LOWER FLOOR WINDOWS. TYPICAL.
- SEE DRAWINGS 5001, 5002, AND 5003 FOR STAIR AND FOOTING DEMOLITION.
- REMOVE ANY CONDUIT, WIRING, PULLSTRINGS OR HANGHOLES IN CONFLICT WITH PROPOSED GRADING, DRAINAGE OR SITE WORK AND REINSTALL AND/OR PROVIDE NEW CONDUIT, TRAFFIC RATED HANGHOLES, PULLSTRINGS, ETC. TO RECONNECT EXISTING LIGHTING AND BLUE LIGHT SYSTEM FOR PROPER WORKING ORDER. PROVIDE ALL TRENCHING, BACKFILL, AND SCHEDULE 80 CONDUIT NECESSARY.
- CAMERA SCOPE AND JET WASH EXISTING STORM PIPE FOR FREE FLOWING CONDITION. NOTIFY ARCHITECT OF ANY EXISTING DAMAGE IMMEDIATELY.
- PROVIDE PROPERLY SIZED WALL SLEEVES TO ACCOMMODATE EXISTING UTILITY AT PROPOSED STAIR FOOTINGS AND CONCRETE BRACE AND SUPPORT UTILITIES AT ALL TIMES. UTILITIES NEED TO BE MAINTAINED AND STAY ACTIVE DURING CONSTRUCTION.



MILLER STAIRS and WALKS - SITE SURVEY

SURVEY NOTES -  
CORTLAND MILLER STAIRS and WALKS

- BOUNDARY AND TOPOGRAPHIC INFORMATION WAS TAKEN FROM THE FOLLOWING:
- TITLE "TOPOGRAPHIC SURVEY" SUNY CORTLAND MILLER BUILDING, CITY OF CORTLAND, CORTLAND COUNTY, STATE OF NEW YORK, PREPARED BY JACOBS LAND SURVEYING 5555 WEST ROAD, TRANSVILLE, NY 13479 TEL: FAX: 315-499-1114, DATED JANUARY 22, 2024.
- MAP NOTES:
- UNDERGROUND UTILITIES ARE SHOWN ON THIS DRAWING PER QUALITY LEVEL C AS DEFINED IN ASCE STANDARD 38-02 TITLES STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA. QUALITY LEVEL C INVOLVES SURVEYING VISIBLE ABOVE GROUND UTILITY.
  - STRUCTURES AND CORRELATING THIS INFORMATION WITH UTILITY RECORDS PROVIDED BY THE CLIENT. UNDERGROUND UTILITY LOCATIONS SHOULD BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHER FACILITIES OR UTILITIES, THE EXISTENCE OF WHICH ARE NOT KNOWN.
  - TO THE BEST OF THE SURVEYORS ABILITY, THE SIZE AND TYPE OF UNDERGROUND STORM AND SANITARY PIPES CONNECTING TO A MANHOLE WERE DETERMINED AT GROUND SURFACE BY MEASUREMENTS FROM THE MANHOLE RIM DOWN TO THE PIPE INVERT. THE SIZE AND TYPE OF SAID PIPES SHOULD BE FIELD VERIFIED PRIOR TO ANY EXCAVATION, IMPROVEMENTS, ETC.
  - ELEVATIONS SHOWN ARE TIED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88). ELEVATIONS ARE BASED ON FIELD MEASUREMENTS. CONTOURS ARE MERELY INTERPOLATION AND SHOULD BE CONSIDERED AS SUCH ONLY.
  - PRIOR TO CONSTRUCTION IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY THAT THE BENCHMARKS SHOWN ON THIS SURVEY HAVE NOT BEEN DISTURBED AND THEIR ELEVATIONS HAVE BEEN CONFIRMED. ANY CONFLICTS MUST BE REPORTED PRIOR TO CONSTRUCTION.
  - THIS SURVEY WAS PREPARED WITHOUT BENEFIT OF AN UPDATED ABSTRACT OR TITLE REPORT AND IS THEREFORE SUBJECT TO ANY EASEMENTS, COVENANTS, OR RESTRICTIONS OF RECORD OR ANY FACTS SUCH DOCUMENTS WOULD DISCLOSE.
- BENCHMARKS:
- BM-1: BENCHMARK No. 1: CHISELED 'X' MARK ON TOP OF CONCRETE LIGHT POLE BASE ELEVATION = 1218.52 (NAVD 88)
- BM-2: BENCHMARK No. 2: CHISELED 'X' MARK AT NORTHWEST CORNER ON CONCRETE PAD ELEVATION = 1220.20 (NAVD 88)

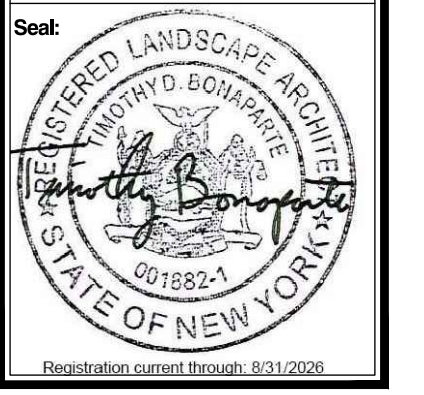
SURVEY VERIFICATION/COORDINATION -  
CORTLAND MILLER STAIRS and WALKS

CONTRACTOR IS RESPONSIBLE FOR VERIFICATION / COORDINATION OF ALL INFORMATION (BENCHMARKS, ELEVATIONS, UTILITIES, ELEMENTS, TREES, ETC.) SHOWN ON THIS SURVEY AND CALIBRATING THIS INFORMATION WITH ACTUAL "IN THE FIELD" DATA. THIS SURVEY IS PROVIDED FOR THE BENEFIT OF THE CONTRACTOR AND GENERAL DESIGN INTENT IS SHOWN. NO ADDITIONAL COSTS WILL BE ALLOWED SHOULD INFORMATION SHOWN ON THE SURVEY AND FIELD DATA VARY.

EGRESS NOTE  
CORTLAND MILLER STAIRS and WALKS

CONTRACTOR MUST PHASE PROJECT AND ENSURE ONLY ONE SIDE OF MILLER BUILDING ENTRANCE IS CLOSED AT ANY TIME. BOTH NORTH AND SOUTH ENDS MUST REMAIN OPEN THROUGHOUT THE DURATION OF THE PROJECT AND ONLY EITHER THE EAST OR WEST ENTRANCE CLOSED AT ANY TIME. THREE SIDES MUST REMAIN OPEN AT ALL TIMES FOR EGRESS.



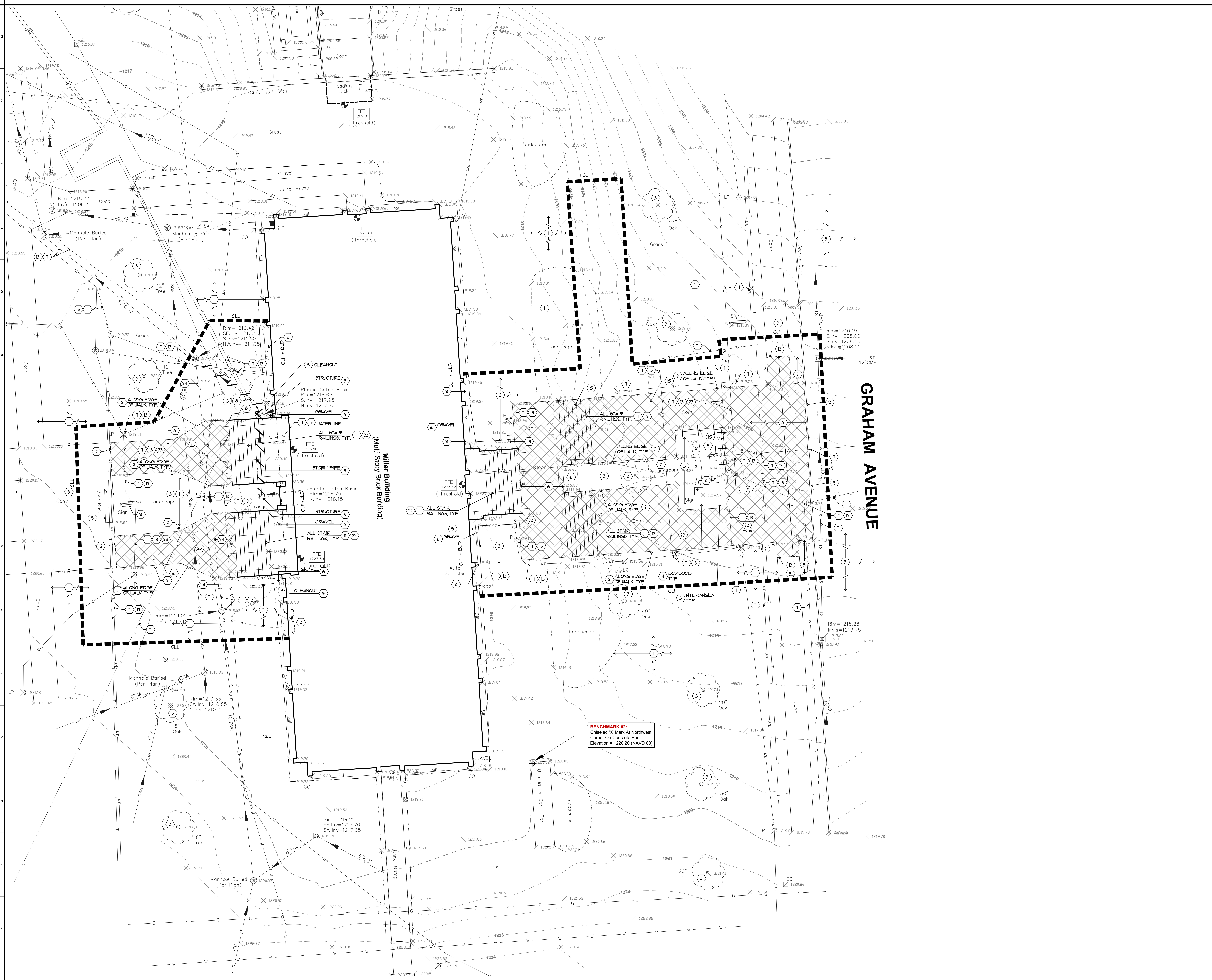


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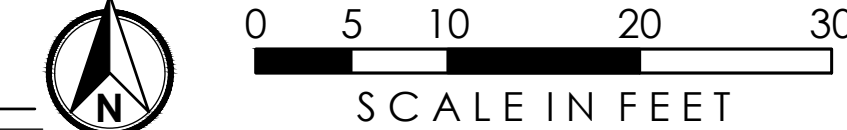
Project Number: 20220020  
Drawn By: AW/HB  
Checked By: TB  
Scale: AS SHOWN

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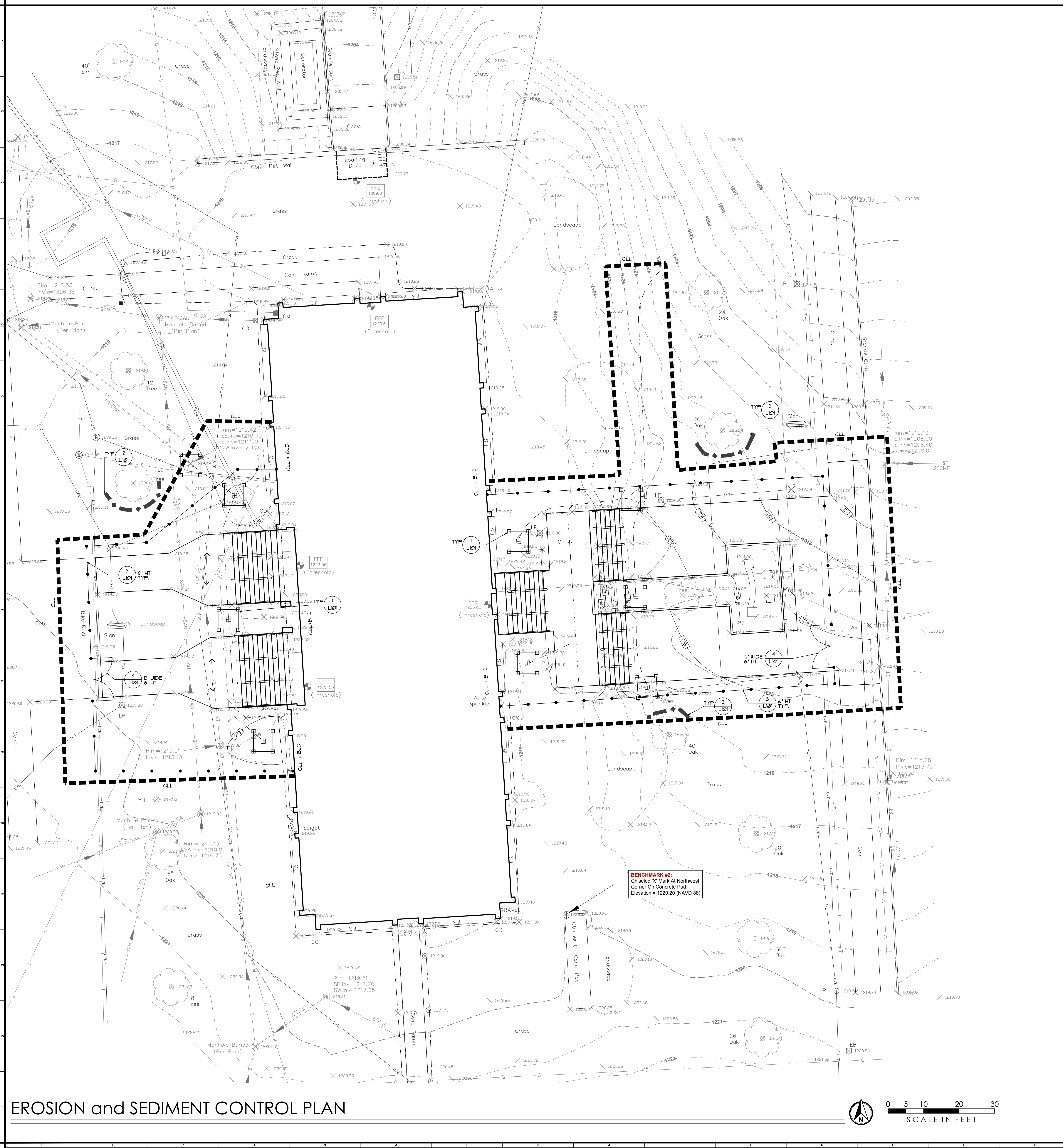
Date: APRIL 19, 2024  
Drawing Title: SITE PREPARATION PLAN  
Sheet Number: L0.02



SITE PREPARATION PLAN

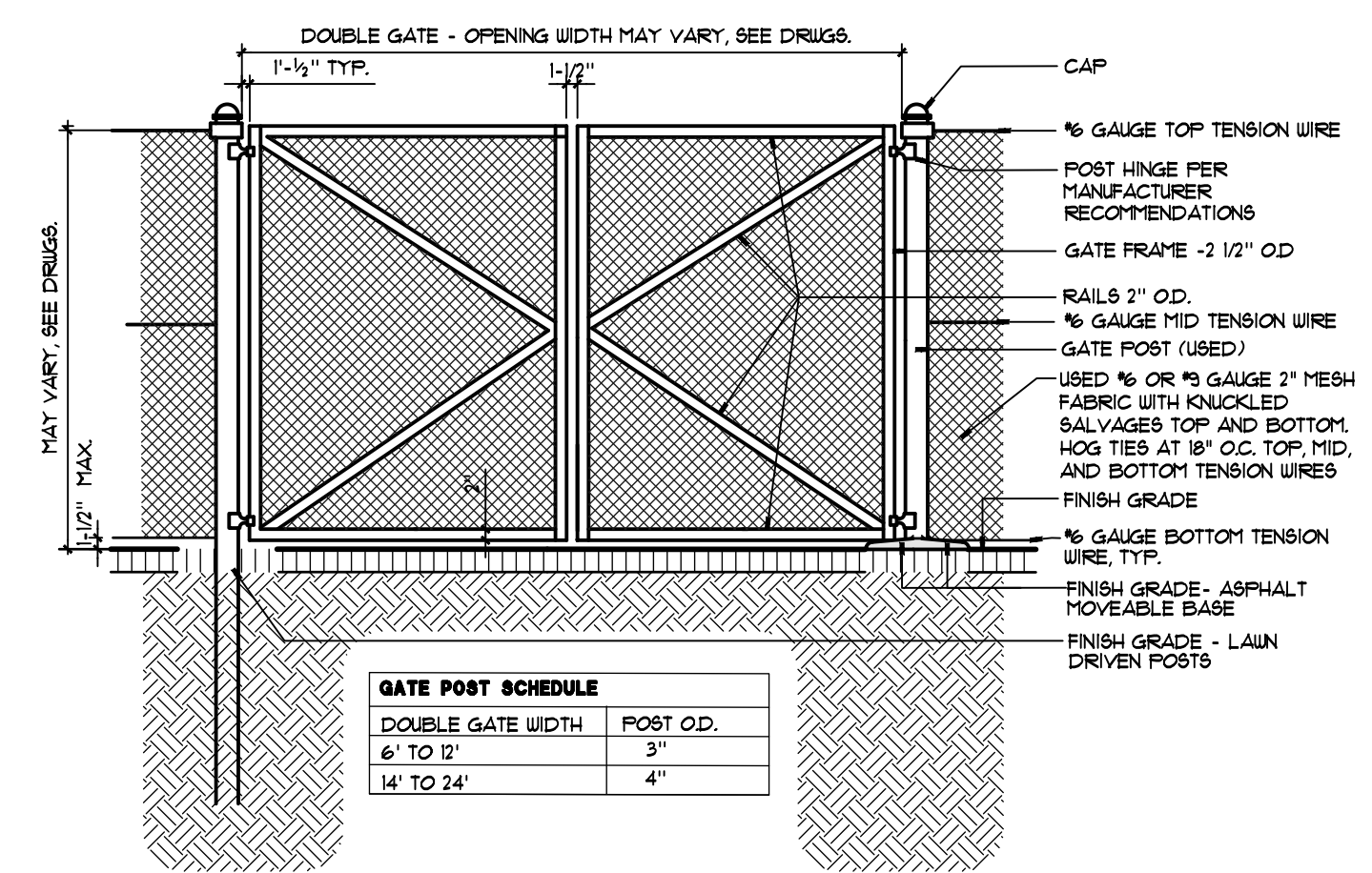




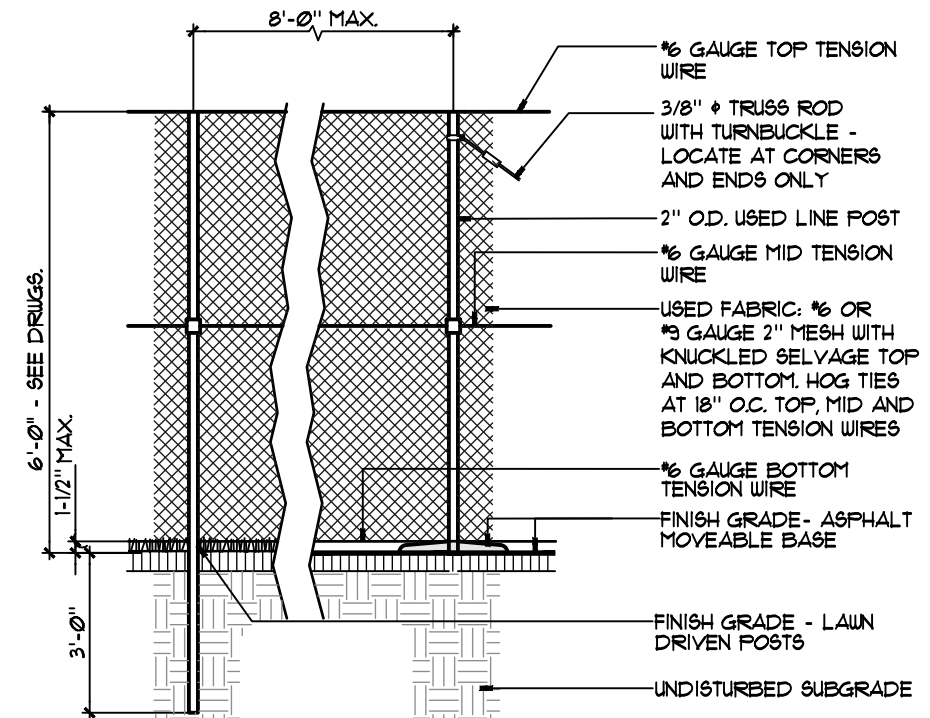


**GENERAL STAGING NOTES - MILLER STAIRS AND WALKS**

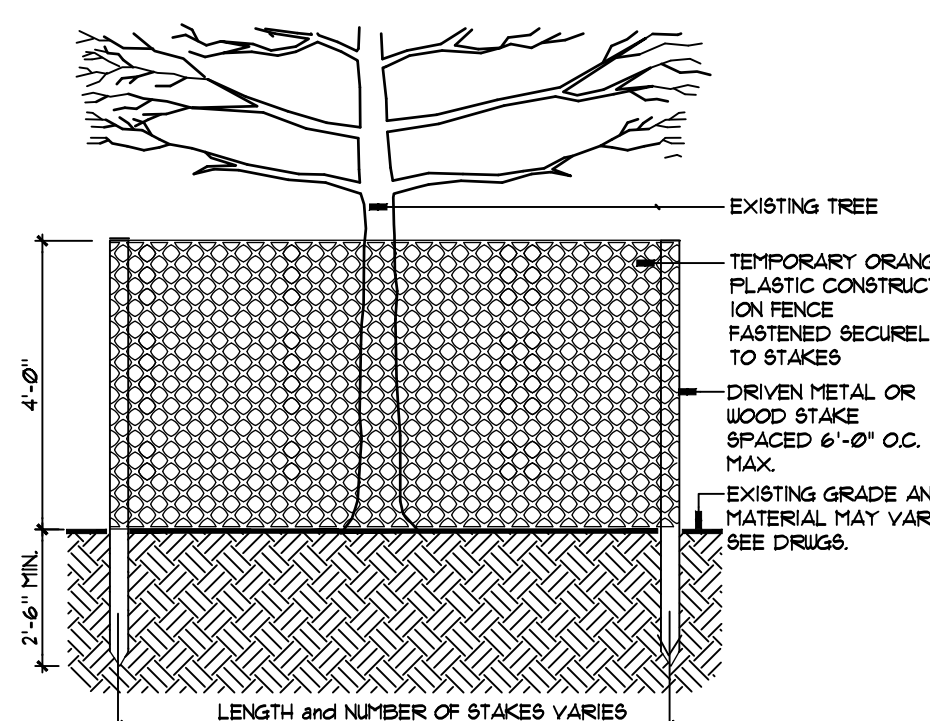
1. THE SITE CONTRACTOR SHALL CONSTRUCT, MAINTAIN, REMOVE AND RELOCATE AS NECESSARY TEMPORARY CONSTRUCTION FENCING AND GATES. TEMPORARY CONSTRUCTION FENCING SHALL BE IN PLACE PRIOR TO THE START OF CONSTRUCTION. THE OWNER MUST APPROVE FENCE AND GATE LAYOUT PRIOR TO CONSTRUCTION.
2. ALL CONTRACTORS STAGING, PARKING AND STORAGE SHALL BE COORDINATED AND APPROVED BY THE OWNER. THE SITE CONTRACTOR SHALL INSTALL, MAINTAIN, REMOVE AND RESTORE AREAS DENOTED ON THE DRAWINGS. ADDITIONAL STAGING AND STORAGE AREAS NOT SHOWN ON THE CONTRACT DOCUMENTS, BUT APPROVED BY THE OWNER SHALL BE INSTALLED AND MAINTAINED.
3. INSTALL TEMPORARY CONSTRUCTION FENCE AND GATES AS NECESSARY TO PROHIBIT UNAUTHORIZED PEDESTRIAN AND VEHICULAR ACCESS AT THE WORKSITE UNTIL THE AREA IS STABILIZED AND FENCING IS TAKEN DOWN, AS DIRECTED BY OWNER. ALL SITE ENTRANCES AND EXITS SHALL BE MAINTAINED FOR EMERGENCY EGRESS.
4. REMOVE TEMPORARY FENCING IN AREAS WHEN INSTALLING UTILITIES AND PERFORMING SITE WORK TO AVOID CONFLICT AND THEN REINSTALL AT END OF WORK DAY.



**TEMP. CONSTRUCTION FENCE GATE- DOUBLE WIDTH**  
SECTION - NOT TO SCALE 715-0205

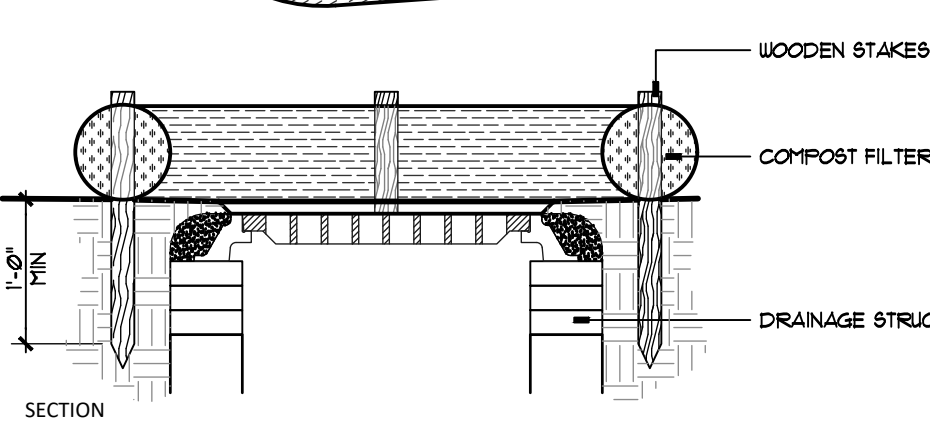
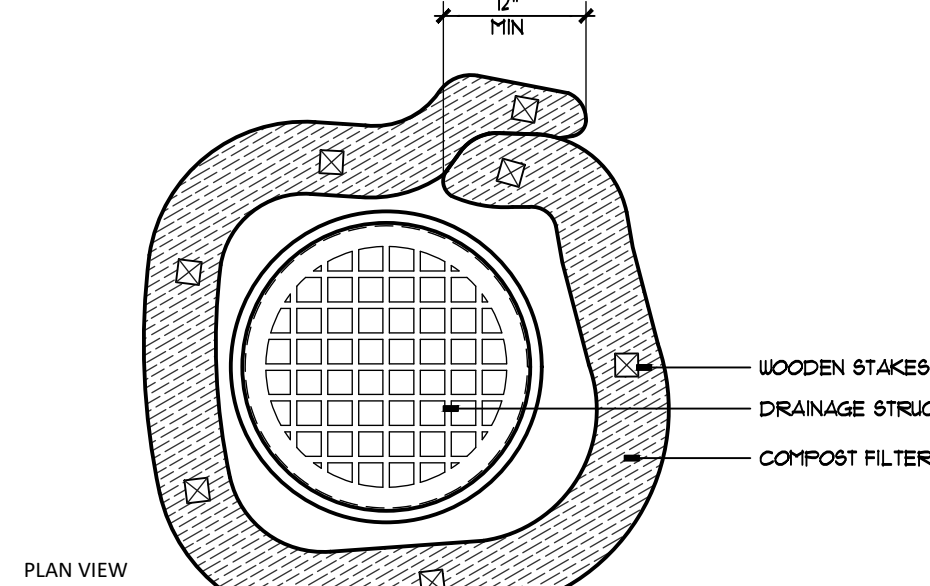


**TEMPORARY CONSTRUCTION FENCE**  
SECTION - NOT TO SCALE 715-0206



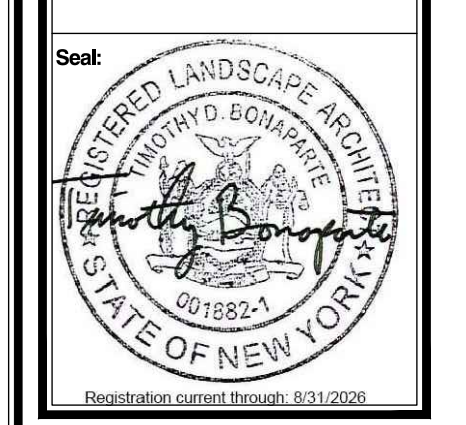
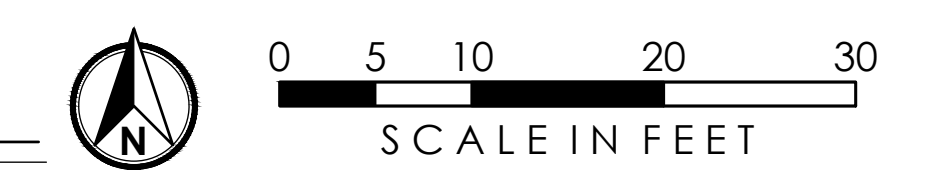
- NOTES:**
1. PLACE TREE GUARD AT DRIP LINE OF TREE (END OF BRANCHES) MIN. 4 FEET 0\"/>
  - 2. MEDIUM/LARGE TREES - CONSTRUCT AS POLYGON AROUND DRIP LINE.
  - 3. SMALL TREES - CONSTRUCT AS SQUARE AROUND DRIP LINE OR MIN. 4 FEET 0\"/>

**TEMPORARY TREE PROTECTION - FENCE**  
SECTION - NOT TO SCALE 715-0207



**STORM STRUCTURE PROTECTION**  
SECTION - NOT TO SCALE 315-0201

**EROSION and SEDIMENT CONTROL PLAN**



Revision:	1	Issue:	Issued For:

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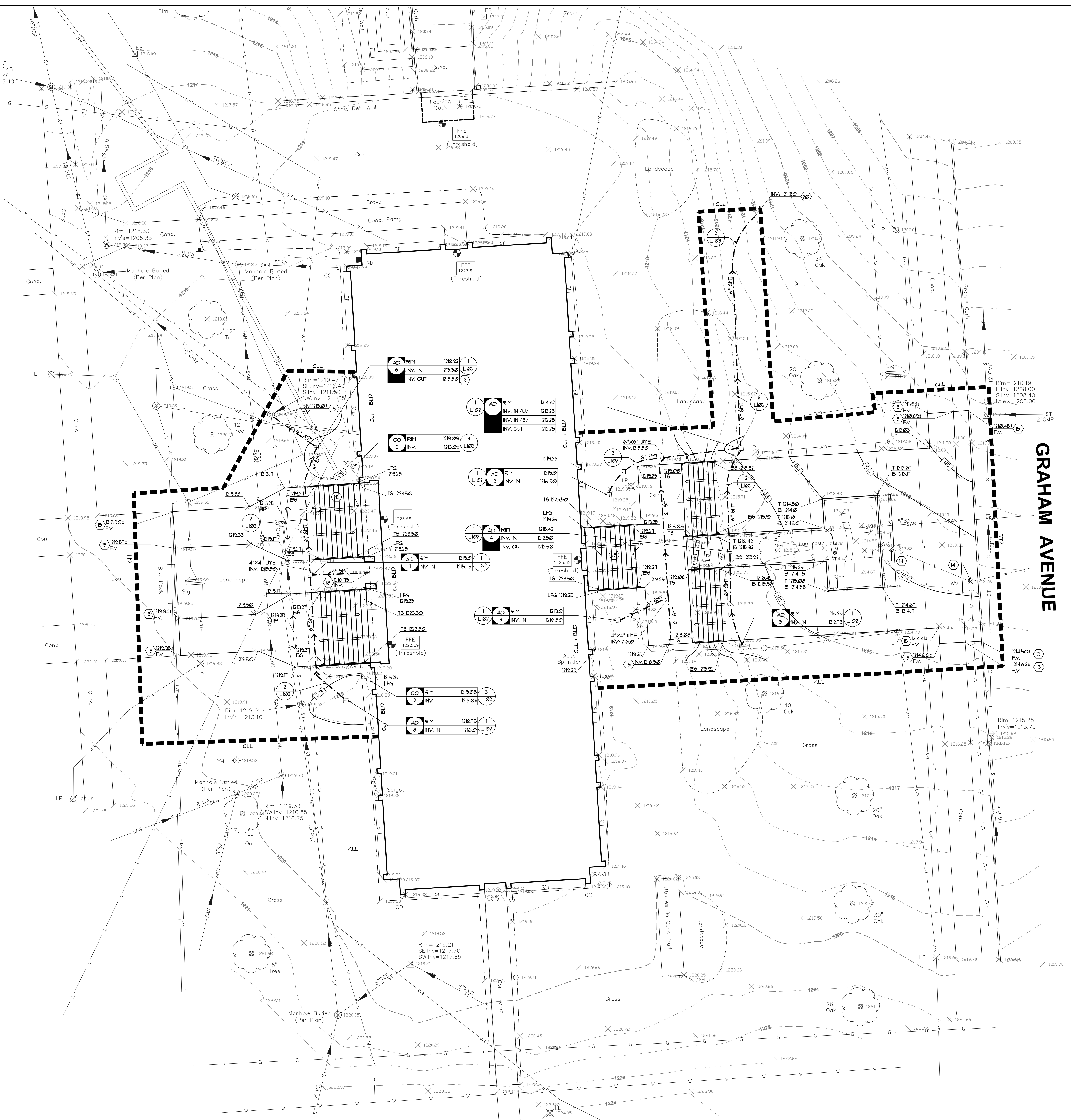




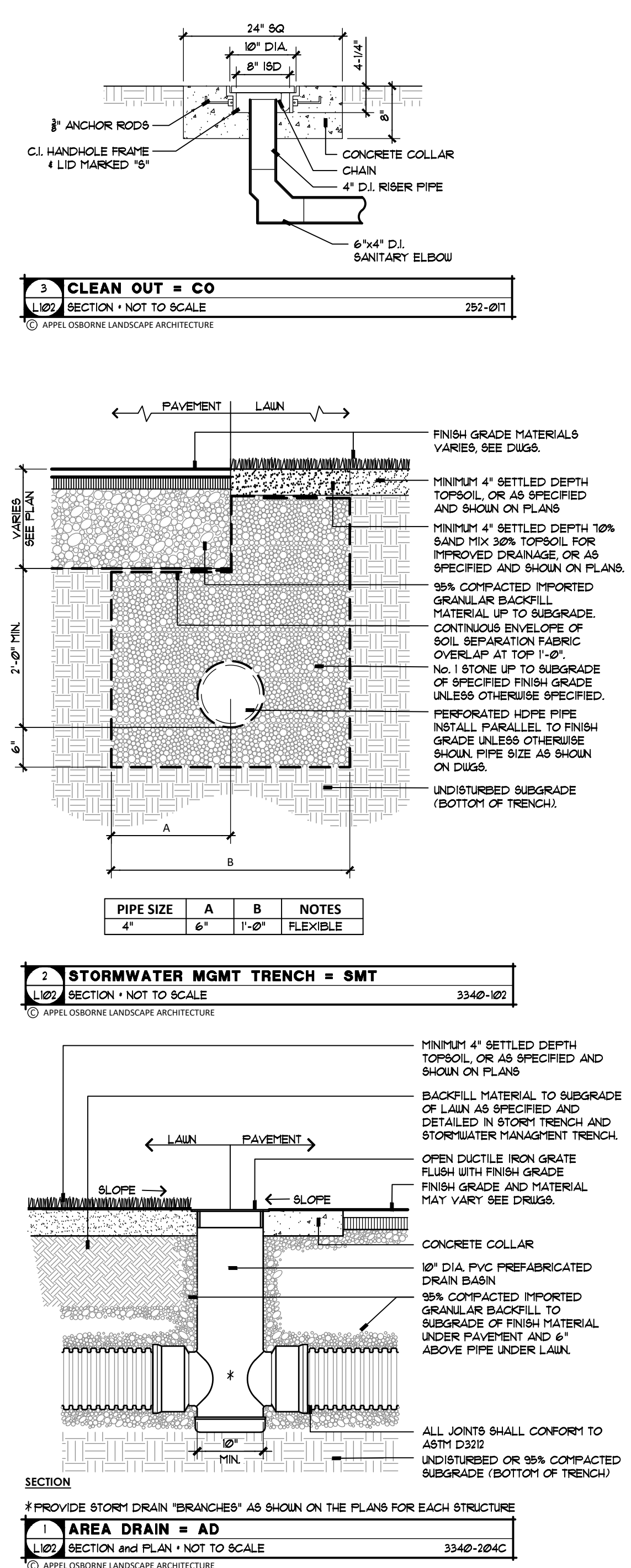
**SUNY CORTLAND**  
MILLER ADMINISTRATION BUILDING STAIRS AND WALK REPLACEMENT  
21 GRAHAM AVENUE,  
CORTLAND, NY 13045

Project Number:	2022000
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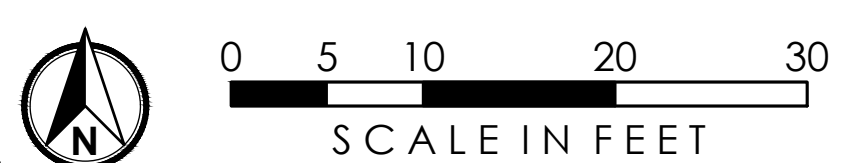
Date: **APRIL 19, 2024**  
Drawing Title: **GRADING and DRAINAGE PLAN**  
Sheet Number: **L1.02**



**GRAHAM AVENUE**



MILLER STAIRS and WALKS - GRADING and DRAINAGE PLAN

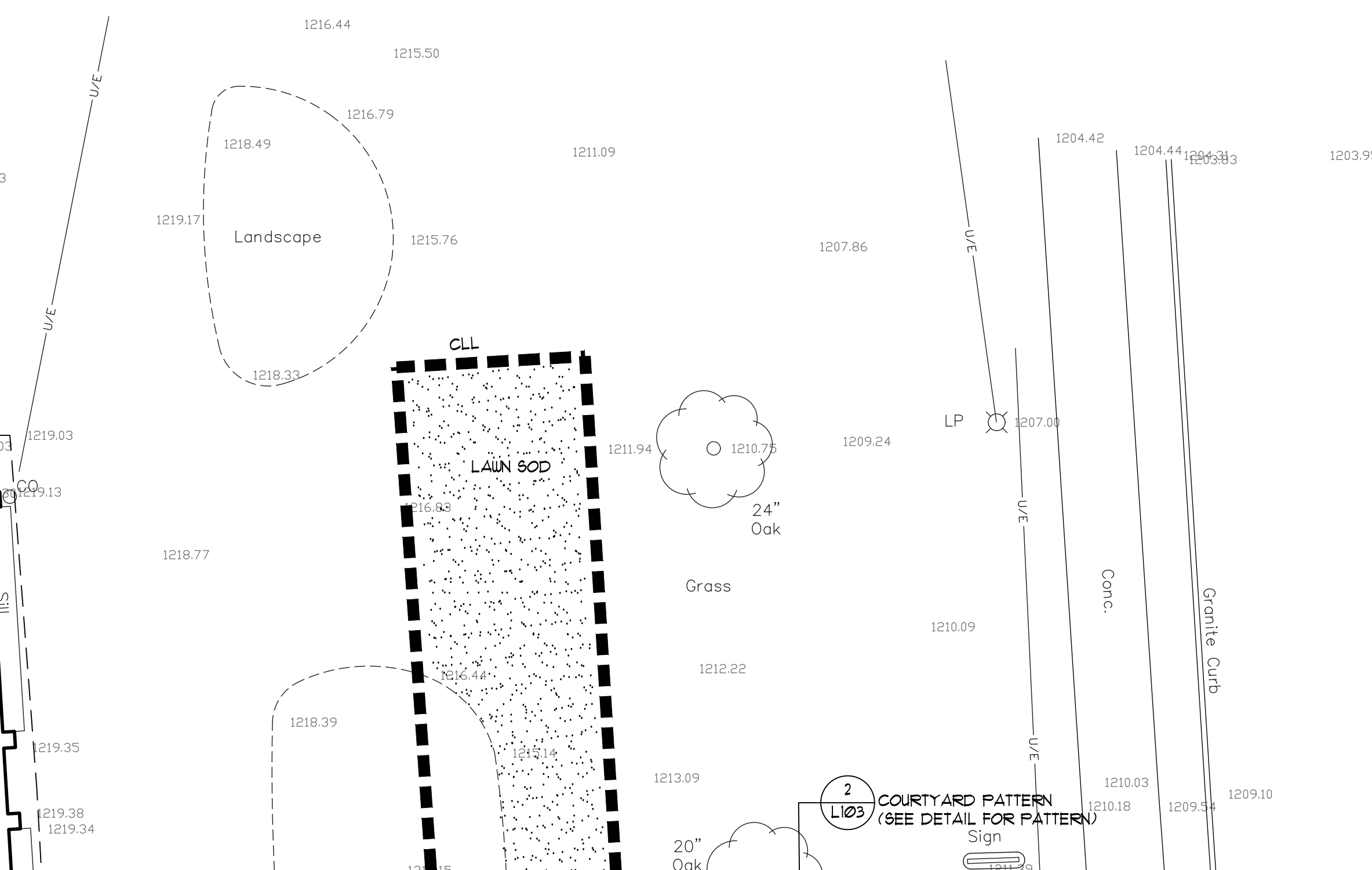
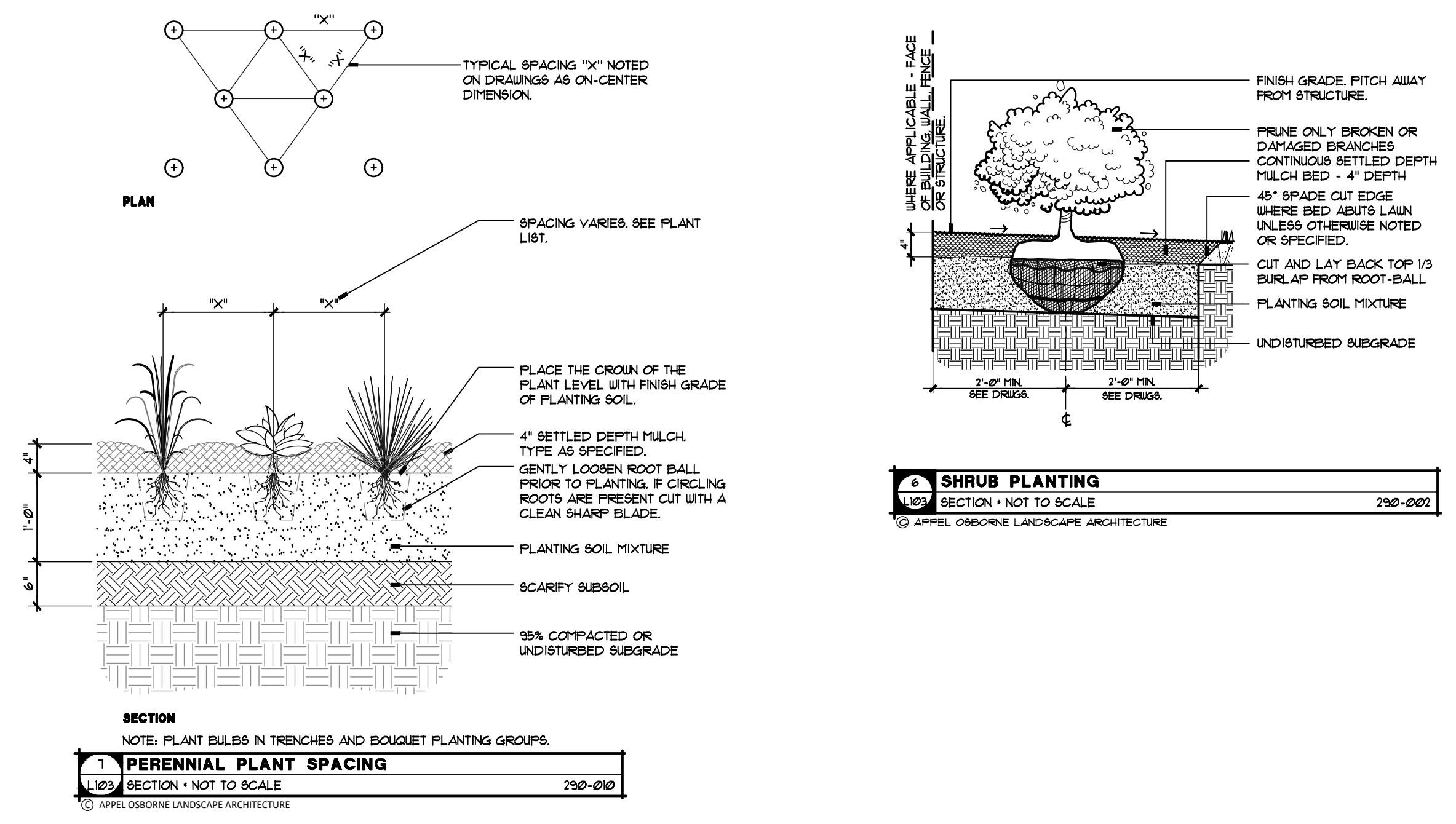




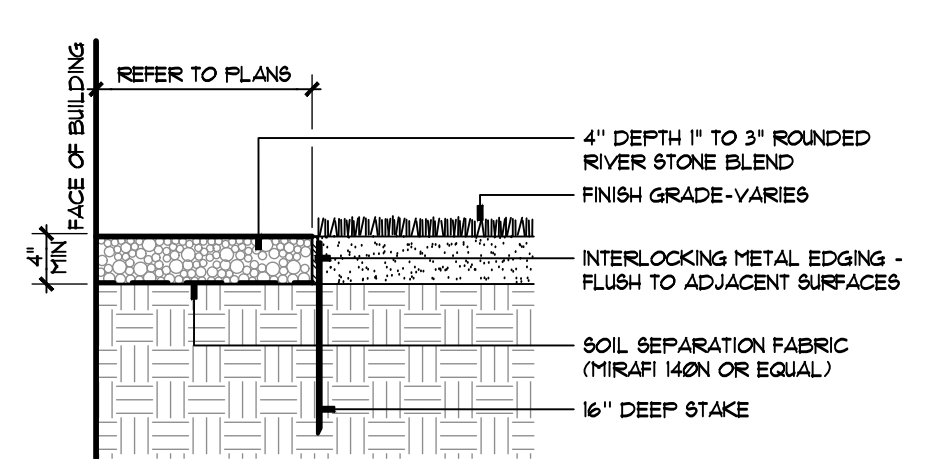
PLANT LIST - SCHOOL/BUILDING NAME

KEY	BOTANICAL NAME	COMMON NAME	QTY.	ROOT & SIZE	SPACING
CA	CALAMAGROSTIS x AGUTIFLORA KARL FOERSTER	FOERSTER'S FEATHER REED GRASS	9	NO. 2 CONT.	3' O.C.
H5	HEMEROCALLIS SPP. 'STELLA DE ORO'	'STELLA DE ORO' DAYLILY	31	NO. 2 CONT.	2' O.C.
H2	HYDRANGEA QUERCIFOLIA	OAK LEAF HYDRANGEA	4	NO. 2 CONT.	AS SHOWN
FA	FENICESTEM ALPEJOUCOIDES 'LITTLE BUNNY'	LITTLE BUNNY DWARF FOUNTAIN GRASS	2	NO. 2 CONT.	3' O.C.
RA	RHUS AROMATICA	GR0 LOU SLMAC	2	NO. 2 CONT.	4' O.C.

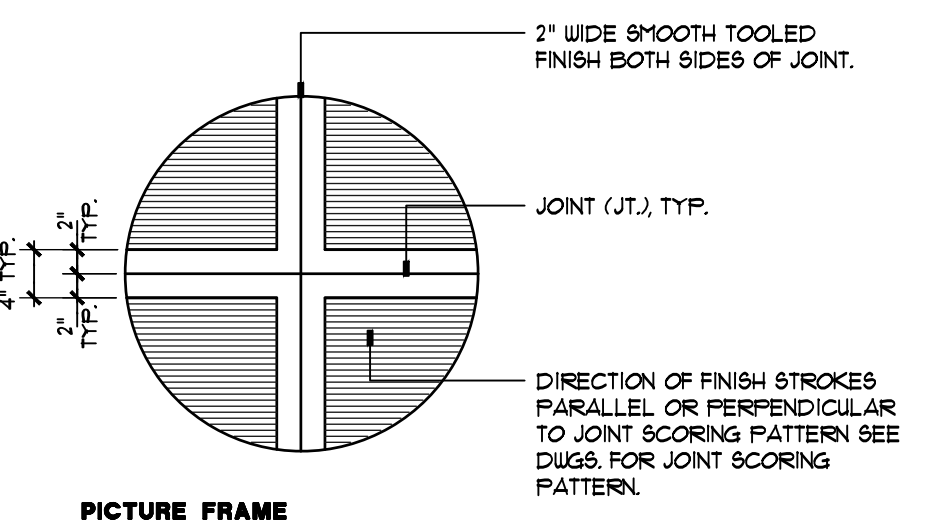
NOTE: FINAL PLACEMENT OF PLANTS TO BE FIELD DIRECTED BY ARCHITECT



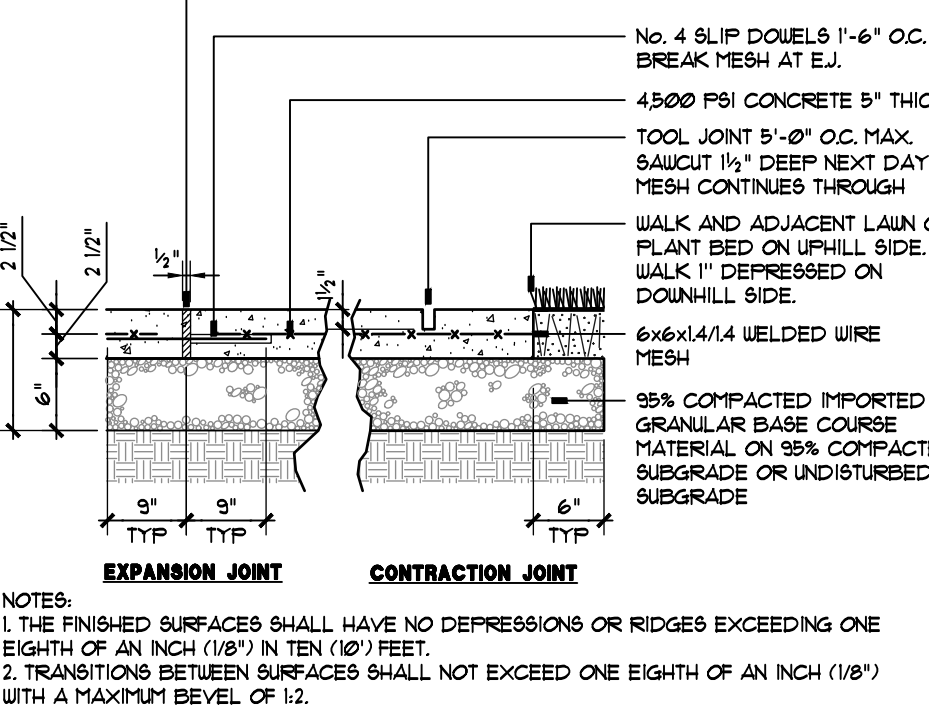
GRAHAM AVENUE



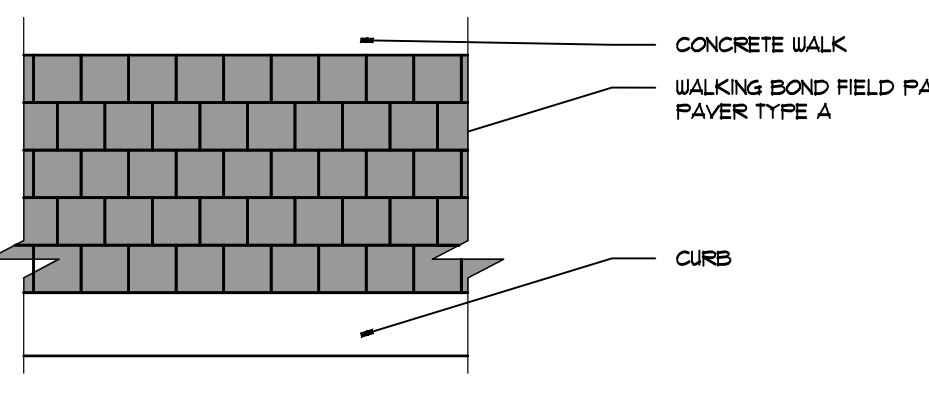
1. GRAVEL DRIP STRIP WITH EDGING  
SECTION - NOT TO SCALE  
312-000A



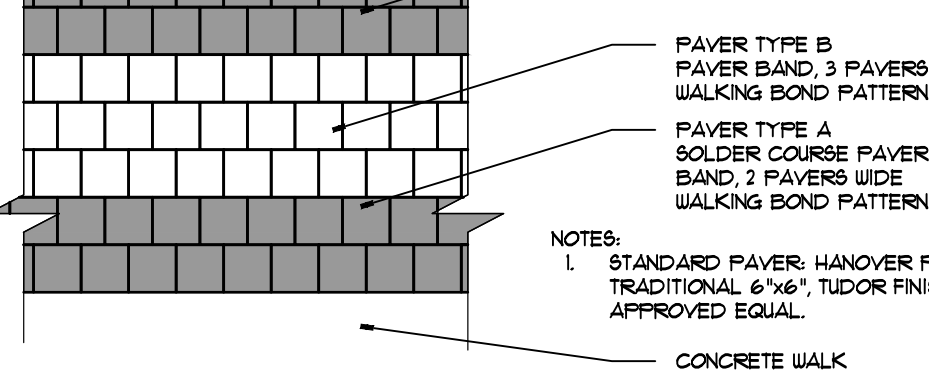
2. CONCRETE WALK AND FINISHED PAD  
SECTION - NOT TO SCALE  
313-200



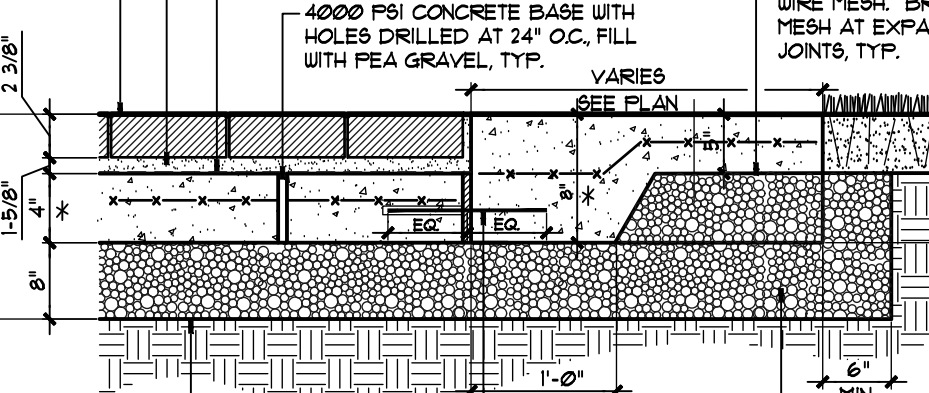
3. CONCRETE WALK - STANDARD  
SECTION - NOT TO SCALE  
313-300



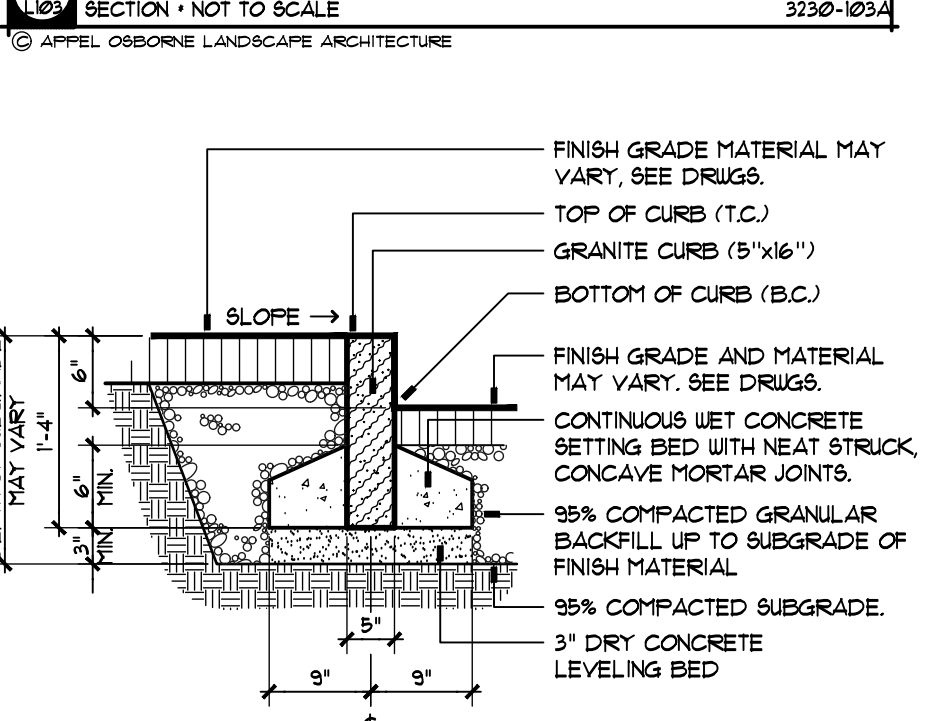
4. SNOW STORAGE PAVEMENT LAYOUT  
SECTION - NOT TO SCALE  
314-100



5. COURTYARD PAVEMENT LAYOUT  
SECTION - NOT TO SCALE  
314-200



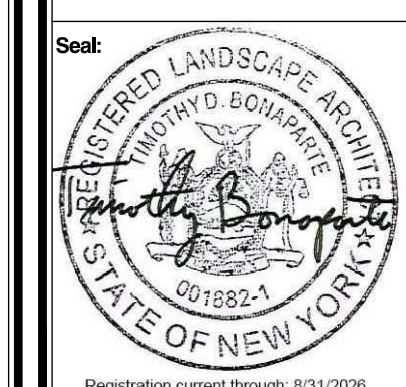
6. PAVERS ON CONCRETE  
SECTION - NOT TO SCALE  
314-300A



7. GRANITE CURB - 6\"/>

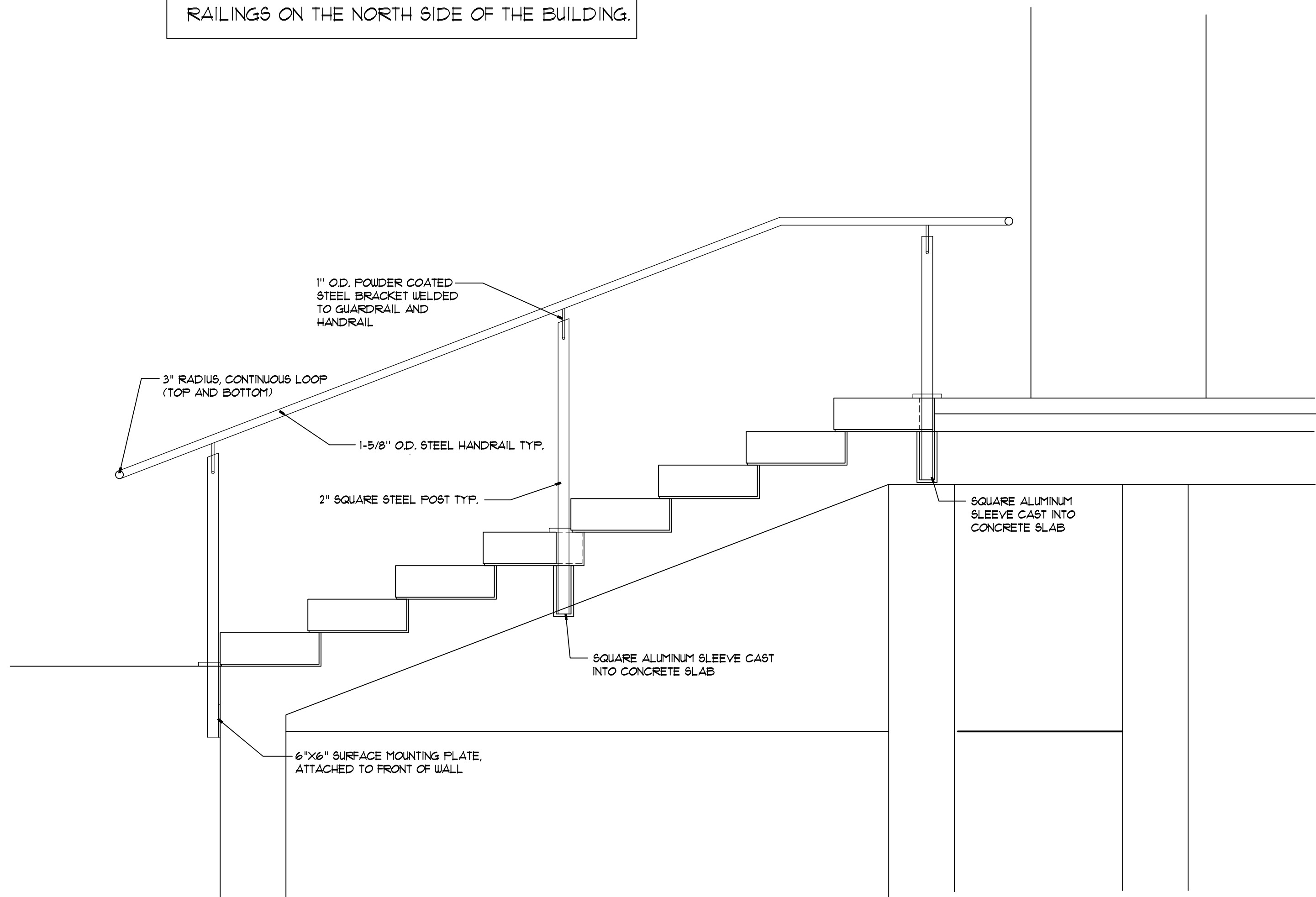
MILLER STAIRS and WALKS - LAYOUT PLAN



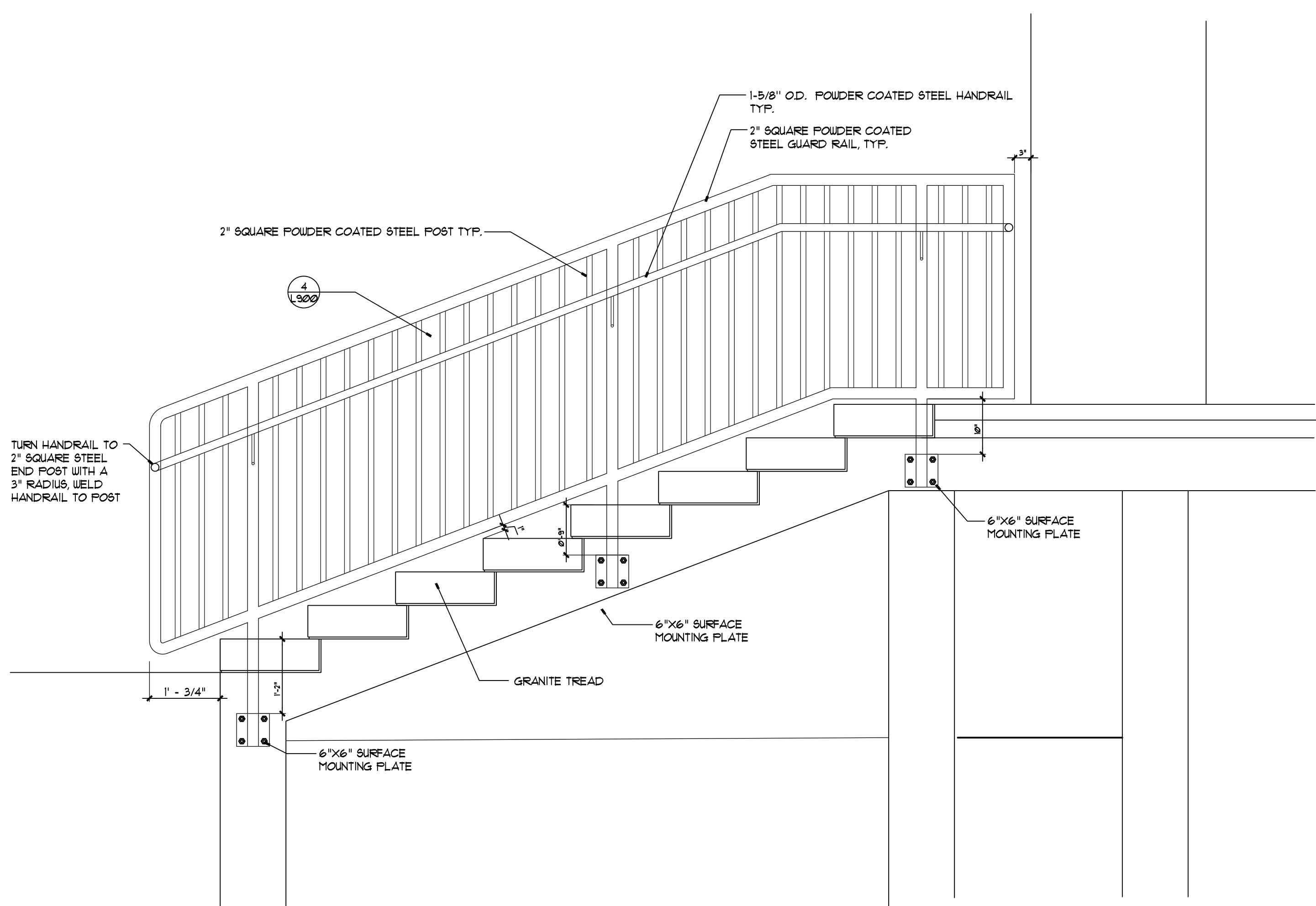


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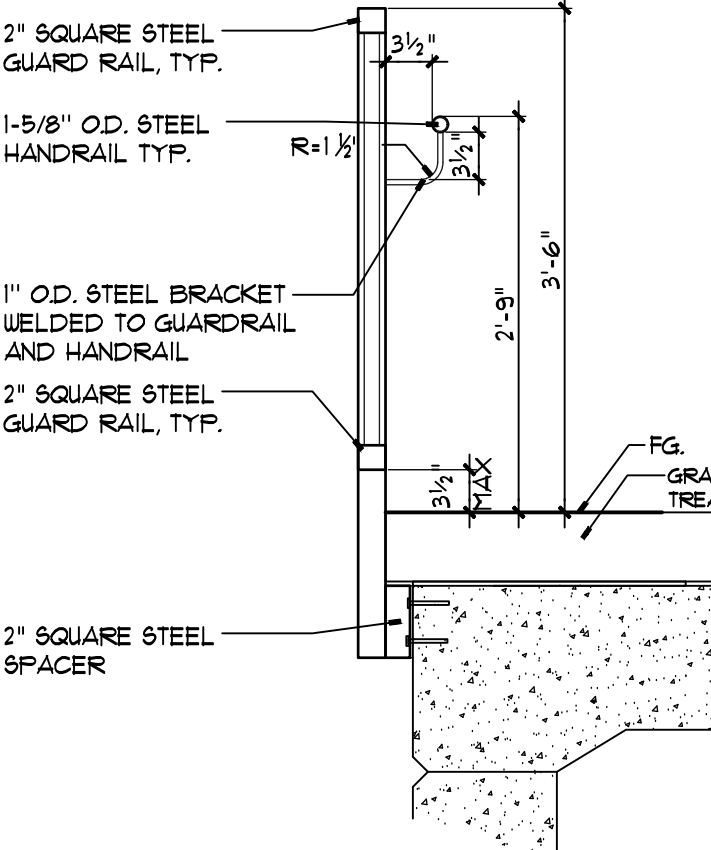
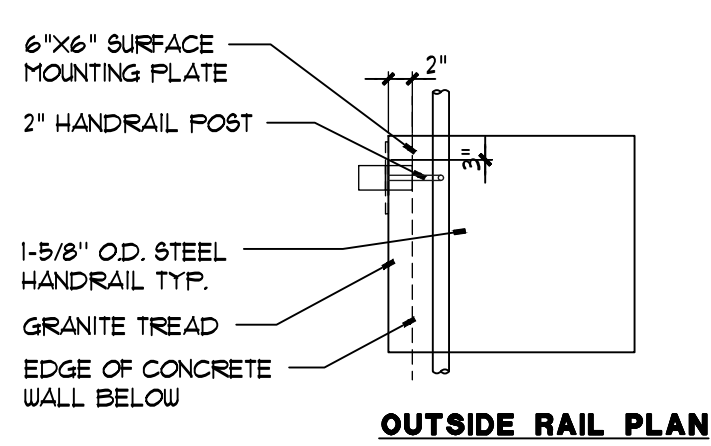
DESIGN INTENT OF PROPOSED HAND SAFETY RAILINGS IS TO MATCH DETAIL OF NEW RAMP RAILINGS ON THE NORTH SIDE OF THE BUILDING.



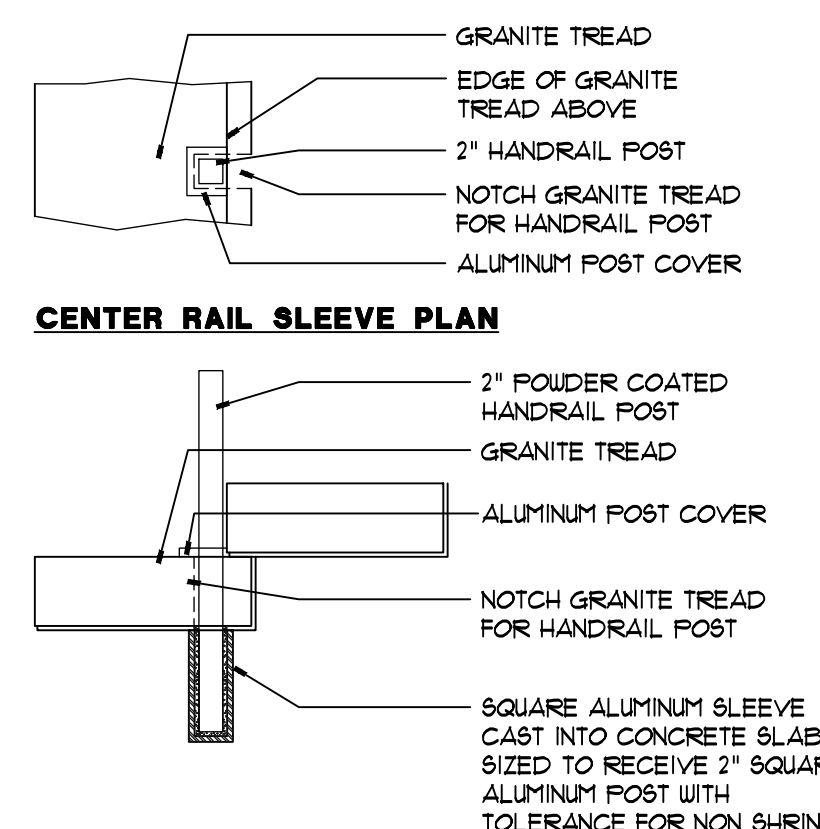
**1 STAIR SECTION**  
SECTION - NOT TO SCALE  
STAIR SECTION  
© APPEL OSBORNE LANDSCAPE ARCHITECTURE



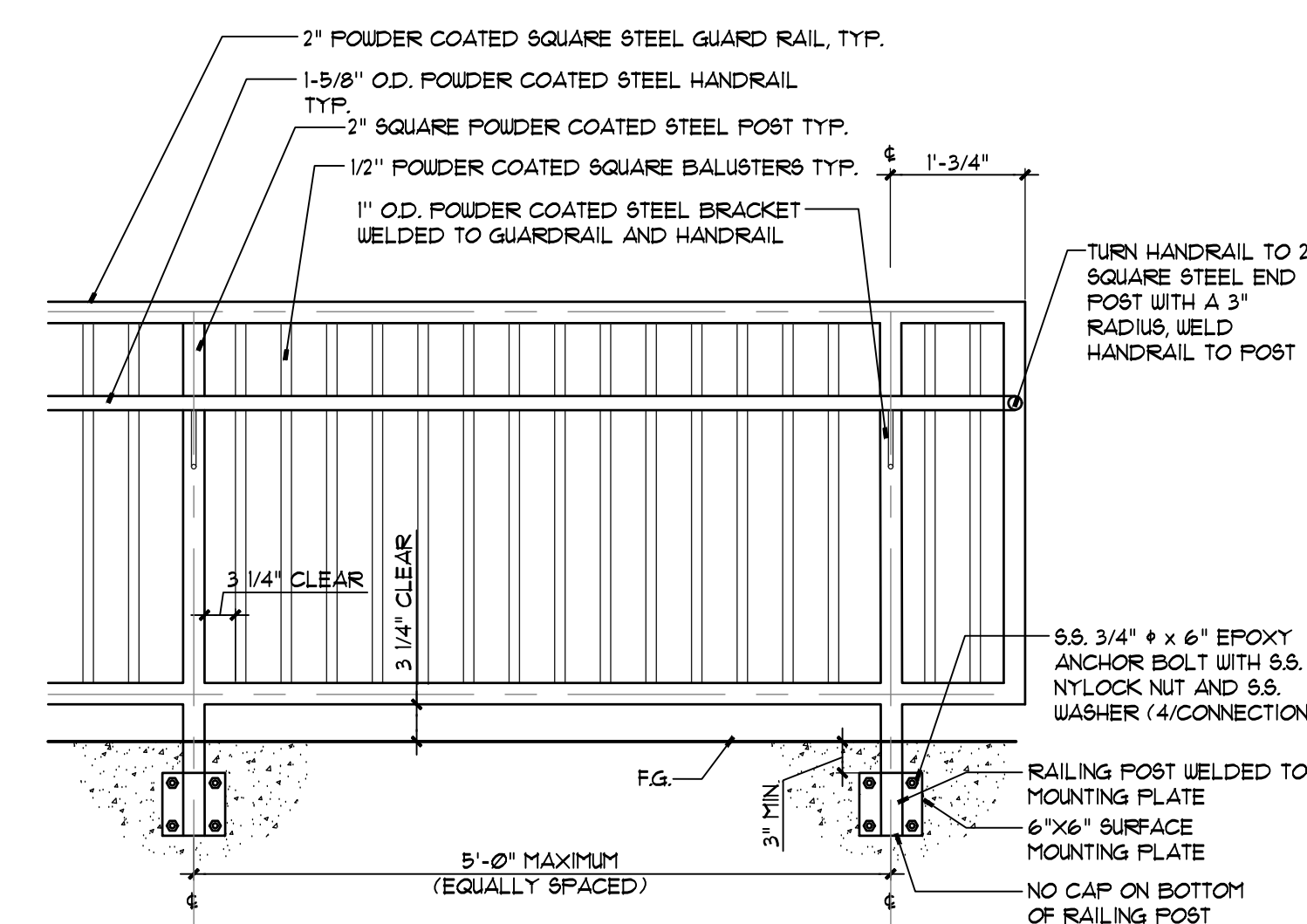
**2 STAIR SECTION**  
SECTION - NOT TO SCALE  
STAIR SECTION  
© APPEL OSBORNE LANDSCAPE ARCHITECTURE



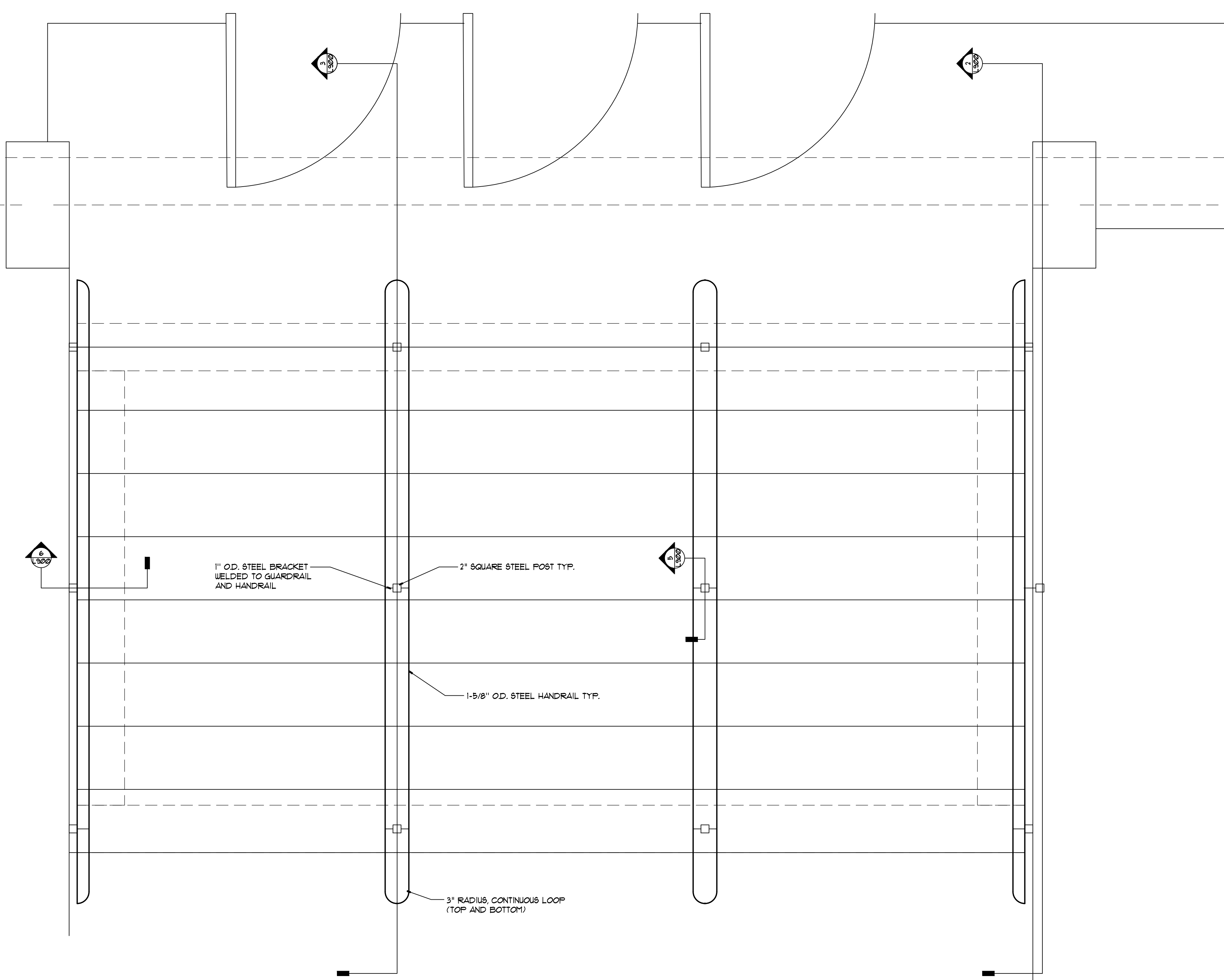
**3 HAND / SAFETY OUTSIDE RAIL CONNECTION**  
NOT TO SCALE  
RAIL CONNECTION DETAILS  
© APPEL OSBORNE LANDSCAPE ARCHITECTURE



**4 HAND / SAFETY CENTER RAIL CONNECTION**  
NOT TO SCALE  
RAIL CONNECTION DETAILS  
© APPEL OSBORNE LANDSCAPE ARCHITECTURE



**5 HAND / SAFETY RAIL**  
SECTION - NOT TO SCALE  
SAFETY RAIL  
© APPEL OSBORNE LANDSCAPE ARCHITECTURE

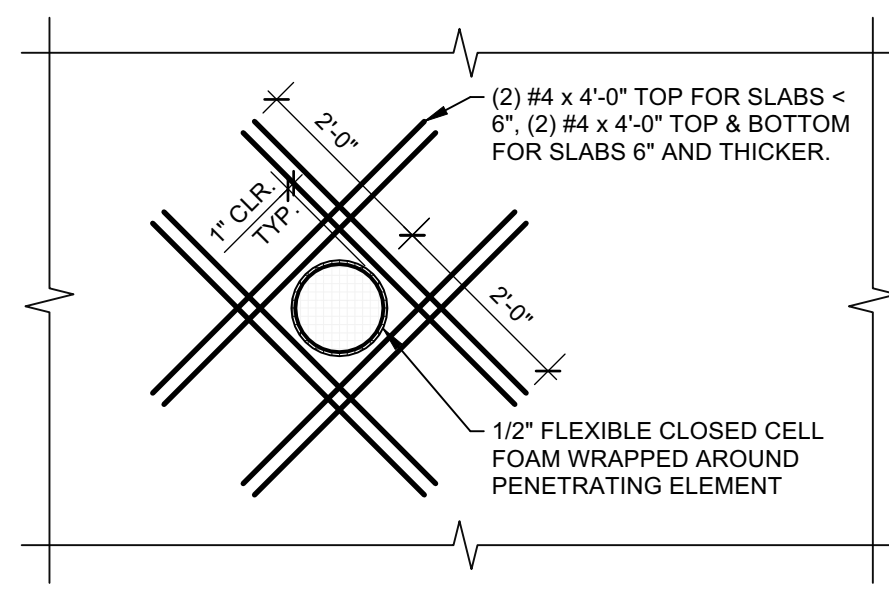


**6 TYPICAL STAIR RAILING PLAN**  
NOT TO SCALE  
STAIR PLAN DETAIL  
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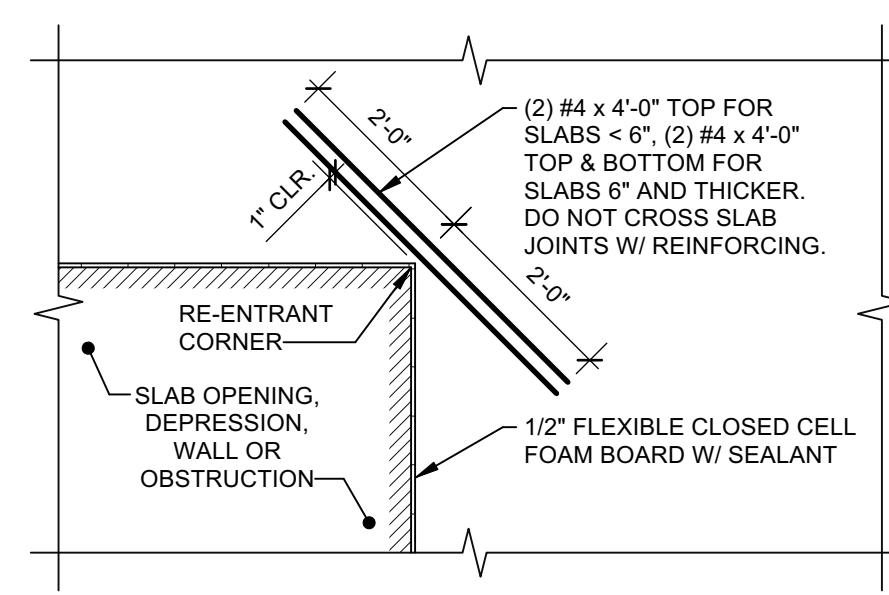


CONCRETE REINFORCING TENSION LAP SPICE SCHEDULE												
CONCRETE STRENGTH	$f_c = 3000$ PSI				$f_c = 4000$ PSI				$f_c = 5000$ PSI			
	CLASS "A"		CLASS "B"		CLASS "A"		CLASS "B"		CLASS "A"		CLASS "B"	
CLASS OF LAP SPICE	TOP BAR	OTHER BAR	TOP BAR	OTHER BAR	TOP BAR	OTHER BAR	TOP BAR	OTHER BAR	TOP BAR	OTHER BAR	TOP BAR	OTHER BAR
#3	22"	17"	28"	22"	19"	15"	24"	19"	17"	13"	22"	17"
#4	29"	22"	37"	29"	25"	19"	33"	25"	23"	17"	29"	23"
#5	36"	28"	47"	36"	31"	24"	41"	31"	28"	22"	36"	28"
#6	43"	33"	56"	43"	37"	29"	49"	37"	34"	26"	43"	34"
#7	63"	48"	81"	63"	54"	42"	71"	54"	49"	38"	63"	49"
#8	72"	55"	93"	72"	62"	48"	81"	62"	56"	43"	72"	56"
#9	81"	62"	105"	81"	70"	54"	91"	70"	62"	48"	81"	62"
#10	89"	69"	116"	89"	78"	60"	101"	78"	69"	53"	90"	69"
#11	98"	76"	128"	98"	85"	66"	111"	85"	76"	59"	99"	76"

NOTES: 1. TABULATED TENSION LAP SPICE LENGTHS ARE VALID ONLY WHEN CLEAR BAR COVER  $\geq 4$ , AND CLEAR SPACING  $\geq 2d$ . CONTACT ENGINEER FOR LAP SPICE LENGTHS FOR OTHER CASES WHEN EITHER CLEAR BAR COVER OR SPACING IS LESS THAN THESE VALUES.  
 2. TENSION LAP SPICE CLASSES DEFINED AS:  
 CLASS "A" TENSION LAP SPICE =  $1.3l_d$ , WHERE  $l_d$  IS THE DEVELOPMENT LENGTH  
 CLASS "B" TENSION LAP SPICE =  $1.3l_e$ , WHERE  $l_e$  IS THE DEVELOPMENT LENGTH  
 3. ALL TENSION LAP SPICES SHALL BE CLASS "B" UNLESS OTHERWISE NOTED.  
 4. WHERE DEVELOPMENT LENGTH  $l_d$  IS REQUIRED OR CALLED OUT ON THE DRAWINGS, USE CLASS "A" TENSION LAP SPICE LENGTH.  
 5. LAP SPICE LENGTH FOR BARS OF DIFFERENT DIAMETER SHALL BE THE GREATER OF  $l_d$  FOR THE LARGER BAR AND THE CLASS "B" LAP SPICE LENGTH FOR THE SMALLER BAR.  
 6. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" OF FRESH CONCRETE CAST IN THE MEMBER BELOW THE BARS.  
 7. SCHEDULE APPLIES TO NORMAL WEIGHT CONCRETE REINFORCED WITH EITHER UNCOATED OR GALVANIZED GRADE 60 DEFORMED BARS. INCREASE SPICE LENGTH BY 33% FOR LIGHT WEIGHT CONCRETE. FOR EPOXY COATED BARS, INCREASE SPICE LENGTH BY 50% IF COVER  $\geq 3d$ , OR CLEAR SPACING IS  $< 6d$ , 20% IF COVER AND CLEAR SPACING BOTH EXCEED THESE LIMITS.  
 8. SPICES OF HORIZONTAL REINFORCEMENT IN WALLS CONTAINING TWO CURTAINS OF REINFORCEMENT SHALL NOT OCCUR IN THE SAME LOCATION.  
 9. FOR CONTACT LAP SPICES, THE CLEAR SPACING TO ADJACENT SPICED BARS SHALL NOT BE LESS THAN THE MINIMUM SPACING FOR UNSPLICED BARS.  
 10. FOR NON-CONTACT LAP SPICES, THE MINIMUM CLEAR SPACING BETWEEN SPICES IS THE GREATER OF  $1.3l_d$  AND  $1.3l_e$ , THE MAXIMUM CLEAR SPACING BETWEEN SPICED BARS IS THE LESSER OF  $1/3$  THE LAP SPICE LENGTH AND  $6'$ .  
 11. COMPRESSION LAP SPICES: THE COMPRESSION LAP SPICE LENGTH  $l_c$  IS GREATER OF  $50d$ , AND  $12'$ .  
 12. TABULATED SPICE LENGTHS ARE FOR GRADE 60 BAR. FOR GRADE 75 BARS INCREASE SPICE LENGTHS BY 25%. FOR GRADE 80 BAR INCREASE SPICE LENGTHS BY 33%.



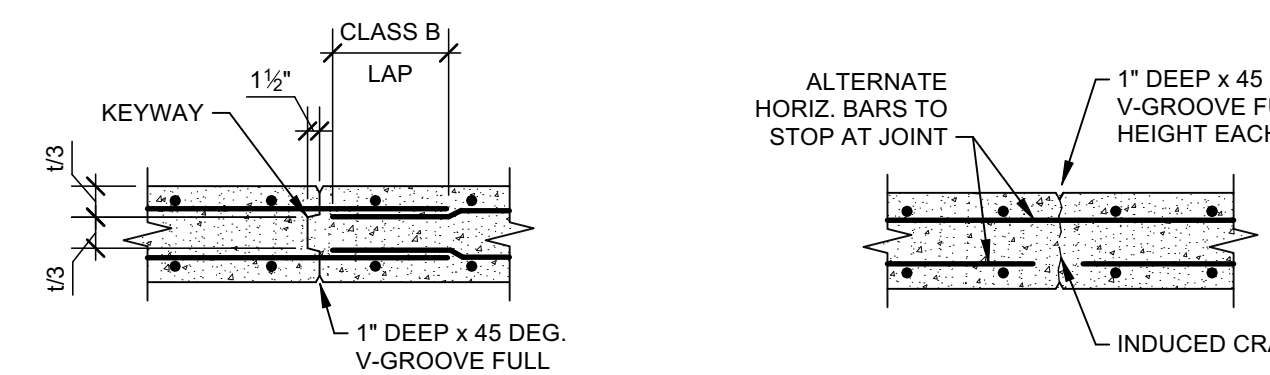
NOTES: 1. DETAIL APPLIES AT BOTH ELEVATED SLABS AND SLABS ON GRADE WHERE PENETRATION EXCEEDS 6" IN ANY DIMENSION.  
 2. WHERE SLAB EDGE DOES NOT ALLOW FOR PLACEMENT OF FULL LENGTH STRAIGHT BAR, BEND INTERFERING BAR END SO THAT IT IS PARALLEL TO THE SLAB EDGE.



NOTES: 1. DETAIL APPLIES AT BOTH ELEVATED SLABS AND SLABS ON GRADE.  
 2. WHERE SLAB EDGE DOES NOT ALLOW FOR PLACEMENT OF FULL LENGTH STRAIGHT BAR, BEND INTERFERING BAR END SO THAT IT IS PARALLEL TO THE SLAB EDGE.

TYP SLAB REINFORCING AT SLAB PENETRATION

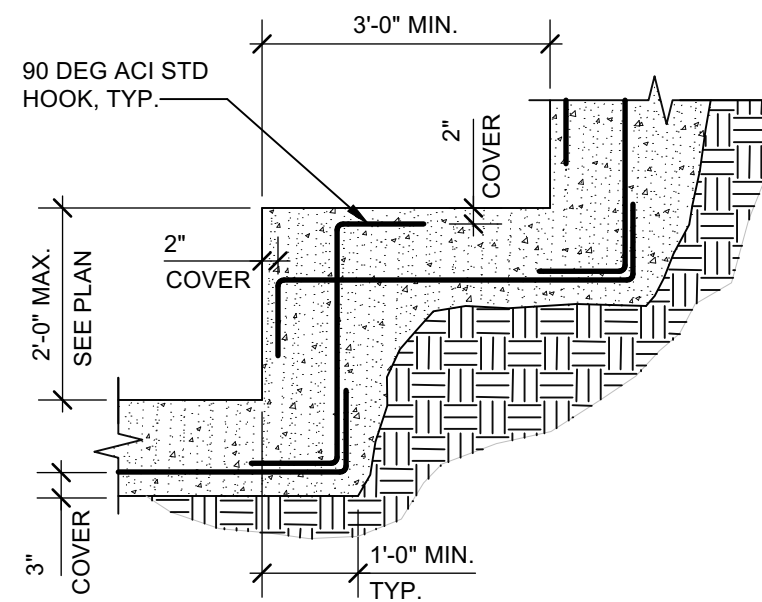
TYP SLAB REINFORCING AT RE-ENTRANT CORNER



CONSTRUCTION JOINT      CONTRACTION JOINT

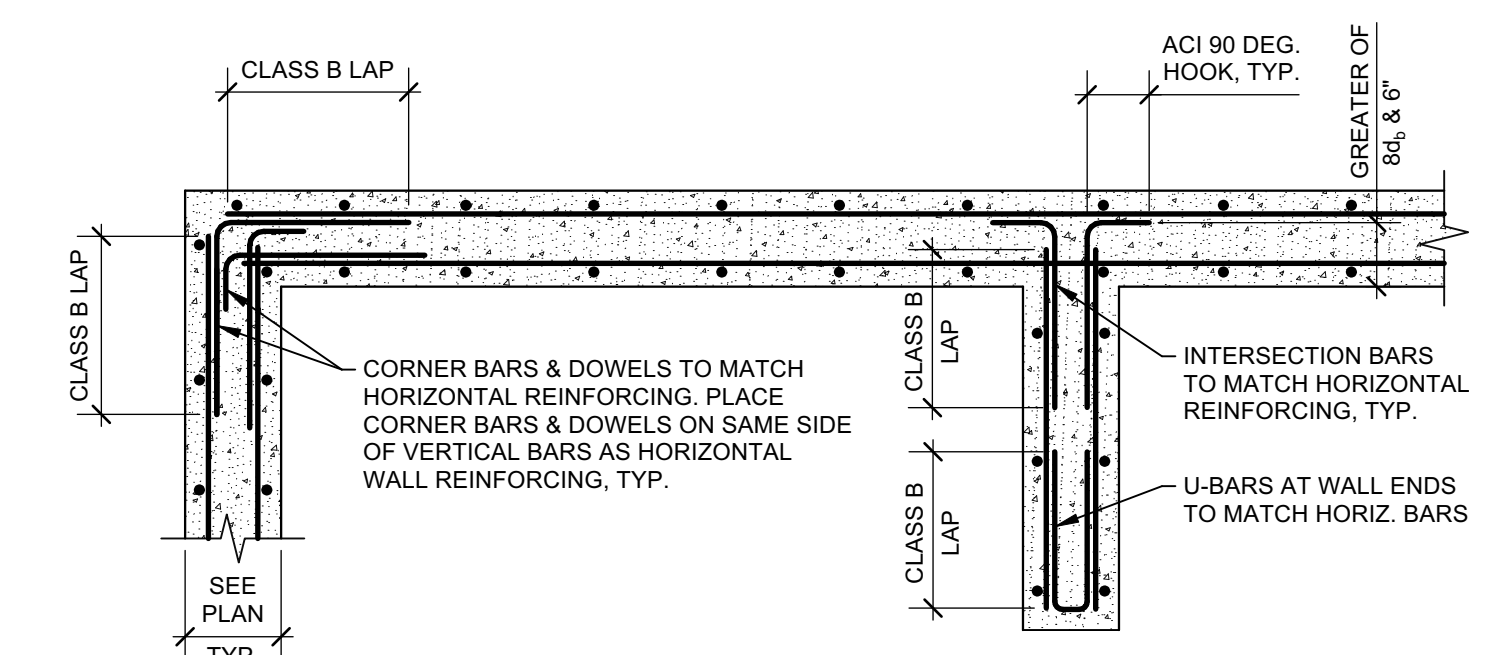
NOTES: 1. JOINT SPACING SHALL BE LESSER OF  $312d$  AND  $2d$ , WALL THICKNESS AND  $2x$  WALL HEIGHT.  
 2. IF FEASIBLE, LOCATE JOINT AT VENEER JOINTS.  
 3. DO NOT LOCATE JOINTS WITHIN 2" OF A COLUMN PIER.  
 4. PROVIDE WATERSTOP FOR ALL CONTRACTION AND CONSTRUCTION JOINTS IN BASEMENT AND TRENCHWALLS NOT WATERPROOFED WITH SHEET MEMBRANE (OR OTHER WATERPROOFING SYSTEM). PROVIDE ADDL. REINFORCING BARS AS REQ'D TO HOLD WATERSTOP IN PLACE DURING CONCRETE PLACEMENT.

TYP WALL JOINT DETAILS

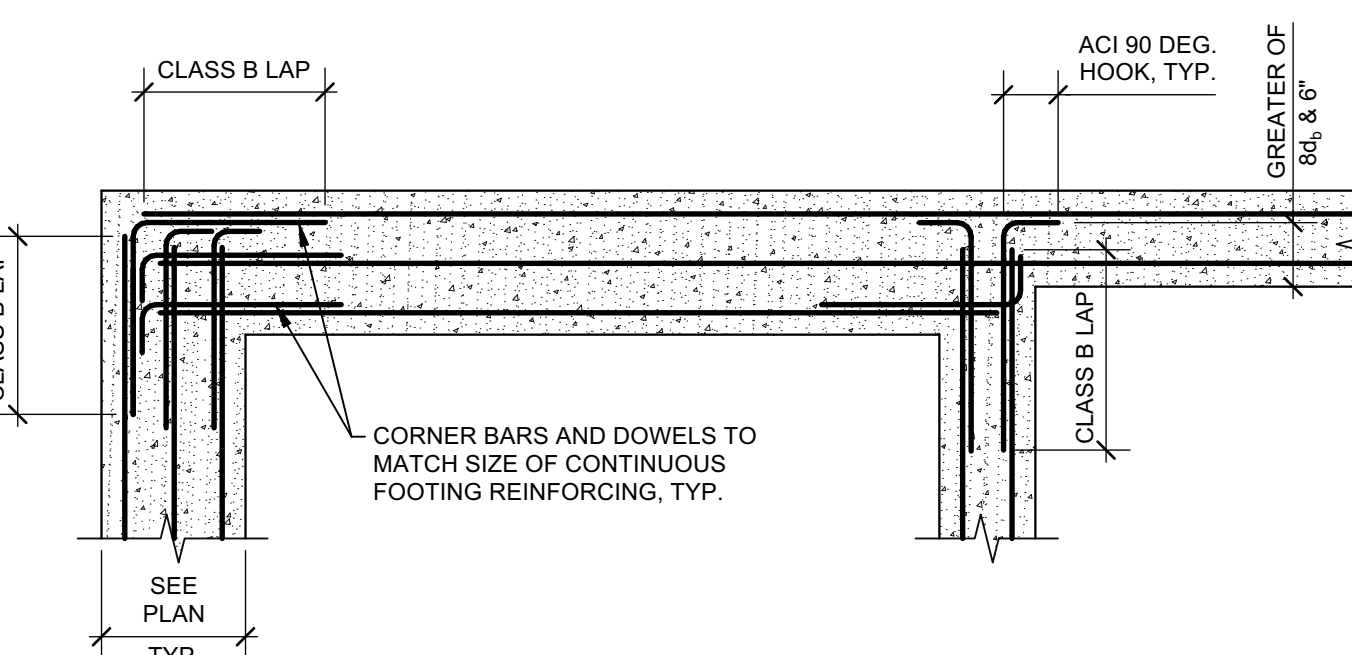


TYP FOOTING STEP DETAIL

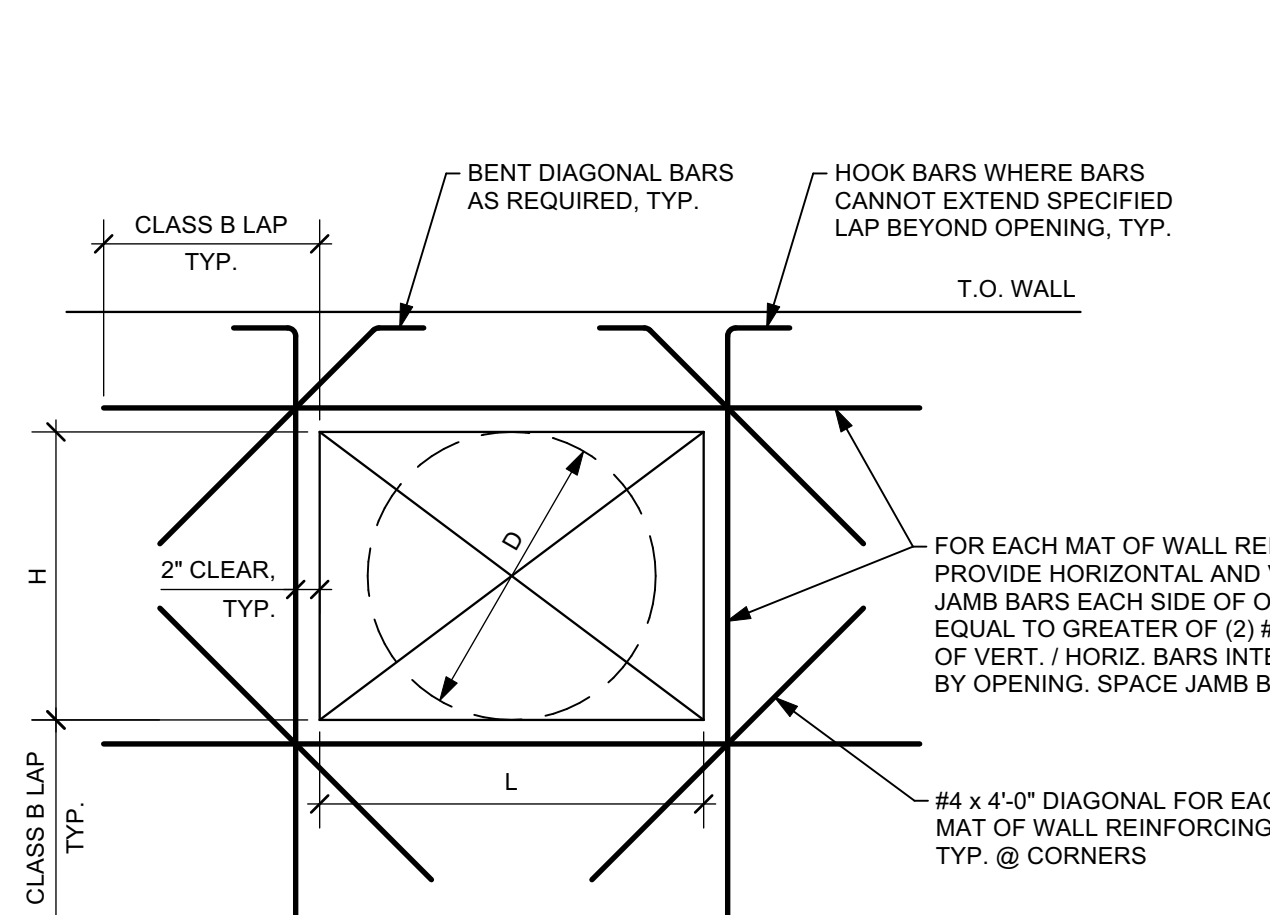
NOTES: 1. FOOTING STEPS INDICATED ON PLAN BY "FS".  
 2. STEP REINFORCING: SAME SIZE AND QTY. AS CONT.



TYP WALL CORNER, END & INTERSECTION DETAIL

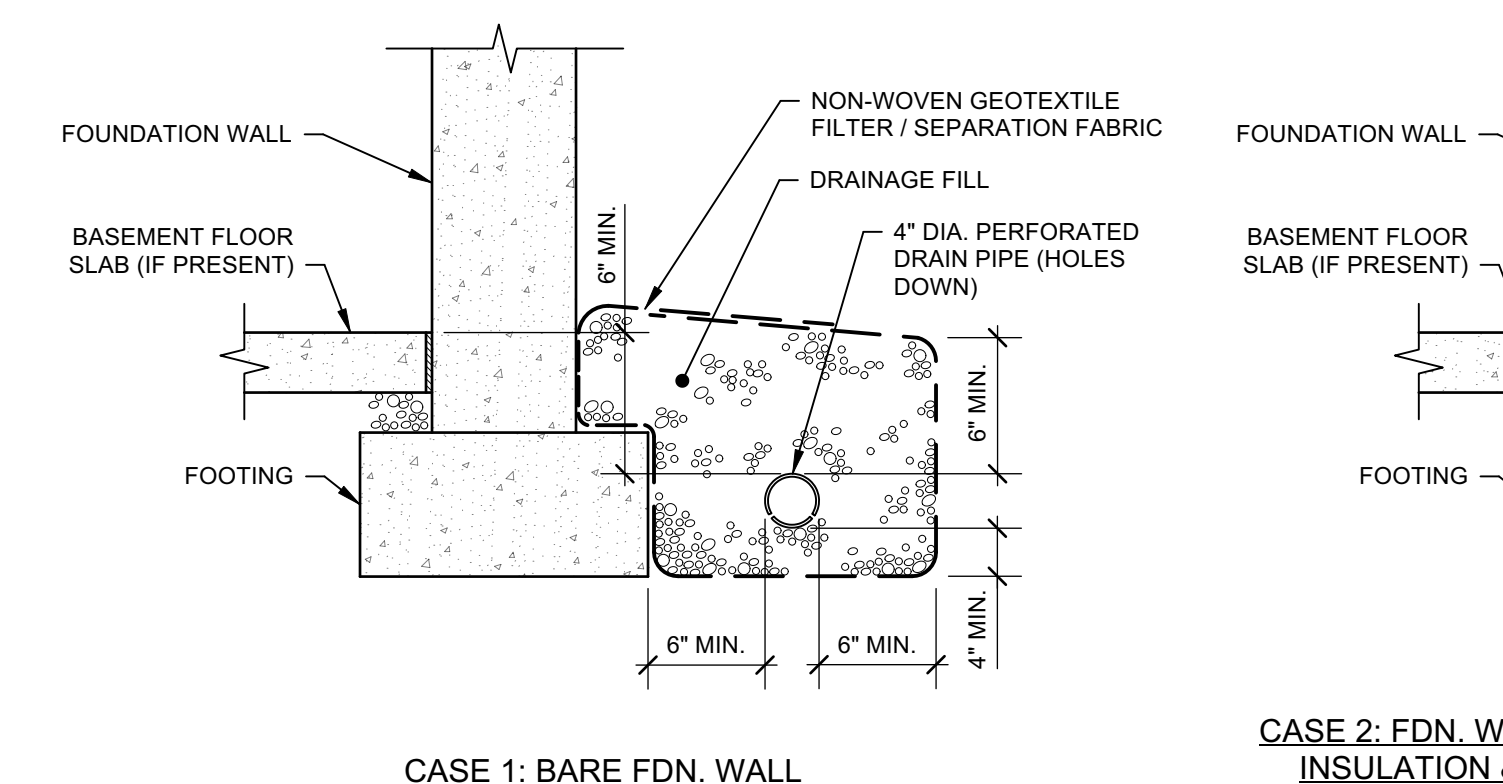


TYP STRIP FOOTING CORNER & INTERSECTION DETAIL

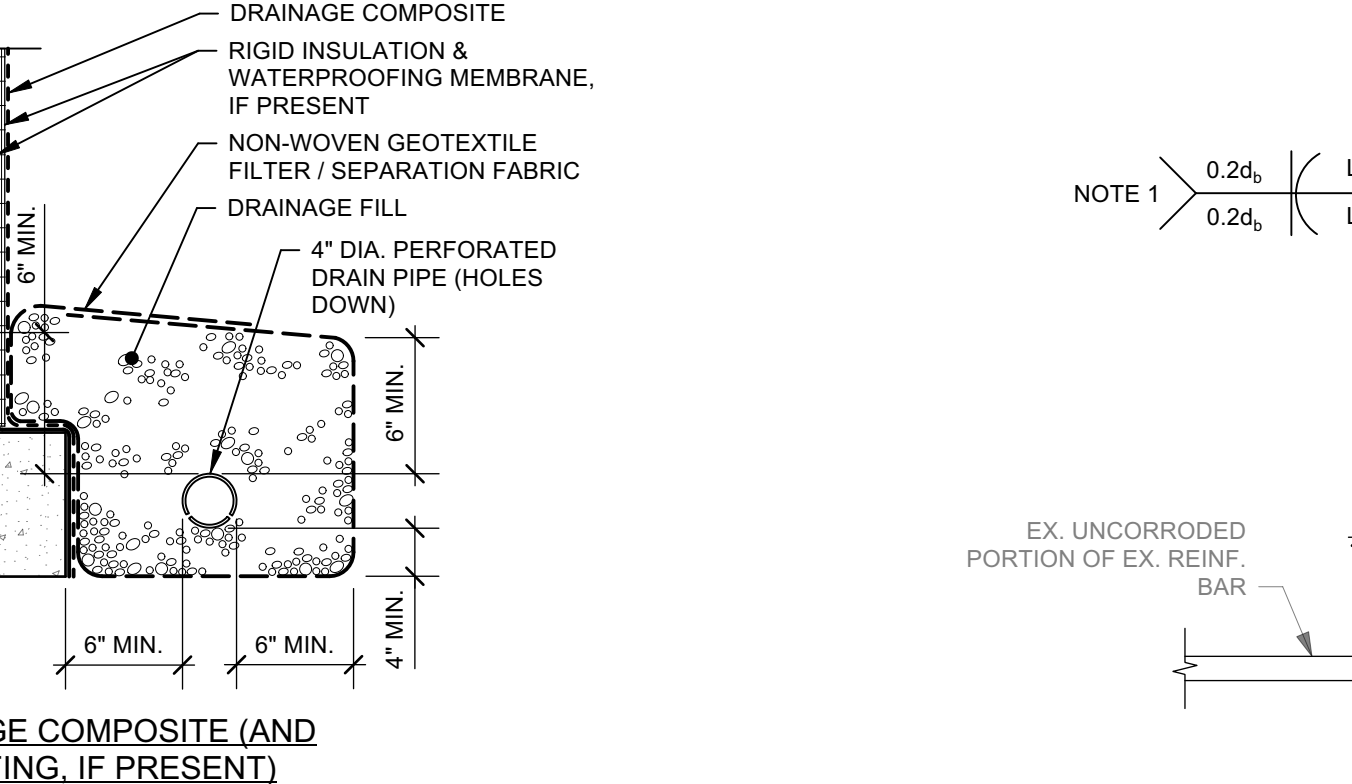


TYP CONCRETE WALL OPENING REINFORCING DETAIL

NOTES: 1. INSTALL SLEEVES (PROVIDED BY OTHER CONTRACTORS) FOR ALL ROUND OPENINGS.  
 2. ADDITIONAL REINFORCING INDICATED ONLY. SEE WALL SECTIONS FOR TYPICAL REINFORCING.  
 3. DETAIL APPLIES TO ALL OPENINGS 10" OR GREATER UP TO 3'-0" MAX. IN ANY DIMENSION.  
 4. FOR OPENINGS WITH A MAX. DIMENSION LESS THAN 10", ADJUST BAR SPACINGS TO ACCOMMODATE OPENING WITHOUT INTERRUPTING VERTICAL BARS. UP TO ONE HORIZONTAL BAR MAY BE INTERRUPTED. PROVIDE DIAGONAL BARS AS INDICATED FOR OPENINGS WITH A MAX. DIMENSION OVER 4".  
 5. WALL OPENINGS SHALL BE COORDINATED AND DETAILED ON THE REINFORCEMENT SHOP DRAWINGS.



CASE 1: BARE FDN. WALL

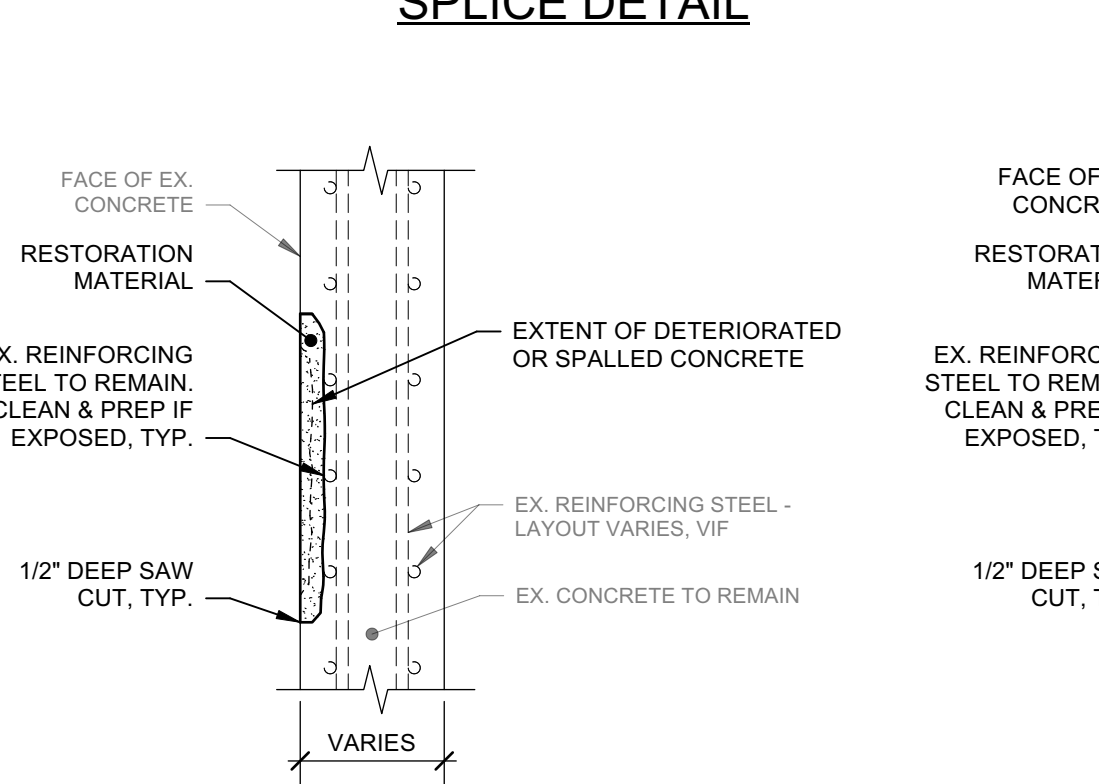


CASE 2: FDN. WALL W/ DRAINAGE COMPOSITE (AND INSULATION & WATERPROOFING, IF PRESENT)

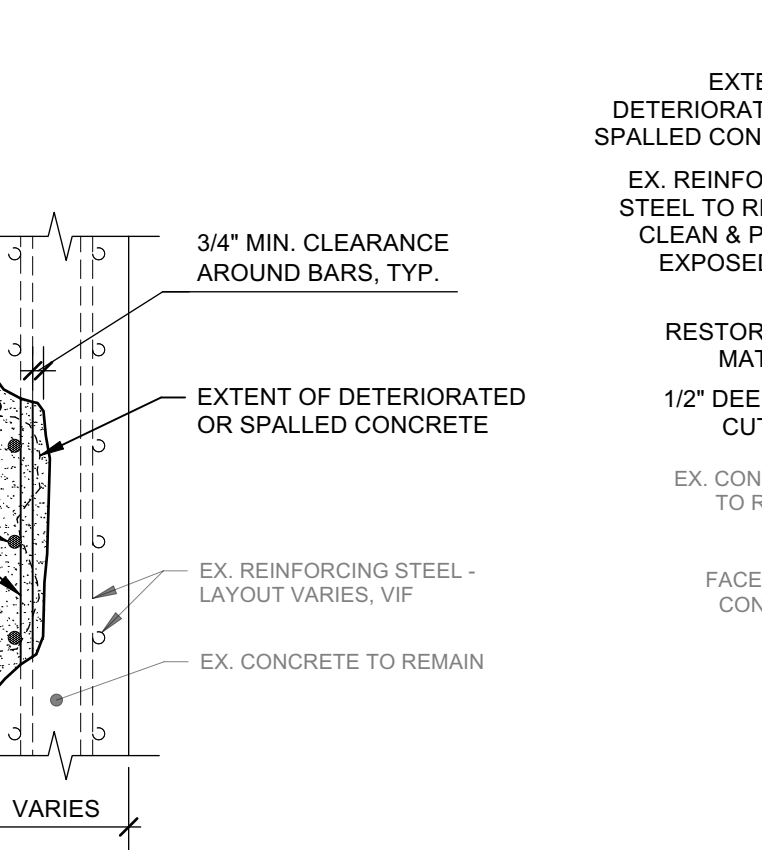
NOTES: 1. PROVIDE SLEEVES AS REQ'D FOR PENETRATIONS THROUGH NEW CONCRETE WALLS.  
 2. REFER TO SITE DRAWINGS FOR INVERT ELEVATIONS. DRAINS MUST BE PLACED WITH BOTTOM OF PIPE NOT BELOW 4" ABOVE THE BOTTOM OF FOOTING ELEVATION, AND WITH TOP OF PIPE AT LEAST 6" BELOW THE TOP OF BASEMENT FLOOR SLAB.  
 3. PROVIDE A MINIMUM OF FOUR FEET OF SOIL COVER FOR FROST PROTECTION.  
 4. PLUMB DRAIN TO DAYLIGHT OR DRAINAGE STRUCTURE. SEE SITE DRAWINGS.  
 5. SEE APPLICABLE FOUNDATION SECTIONS FOR SIZE AND ELEVATION INFORMATION FOR FOOTING AND BASEMENT FLOOR SLAB (IF PRESENT), AS WELL AS INSULATION AND DAMPPROOFING OR WATERPROOFING DETAILING.

TYP FOOTING DRAIN DETAILS

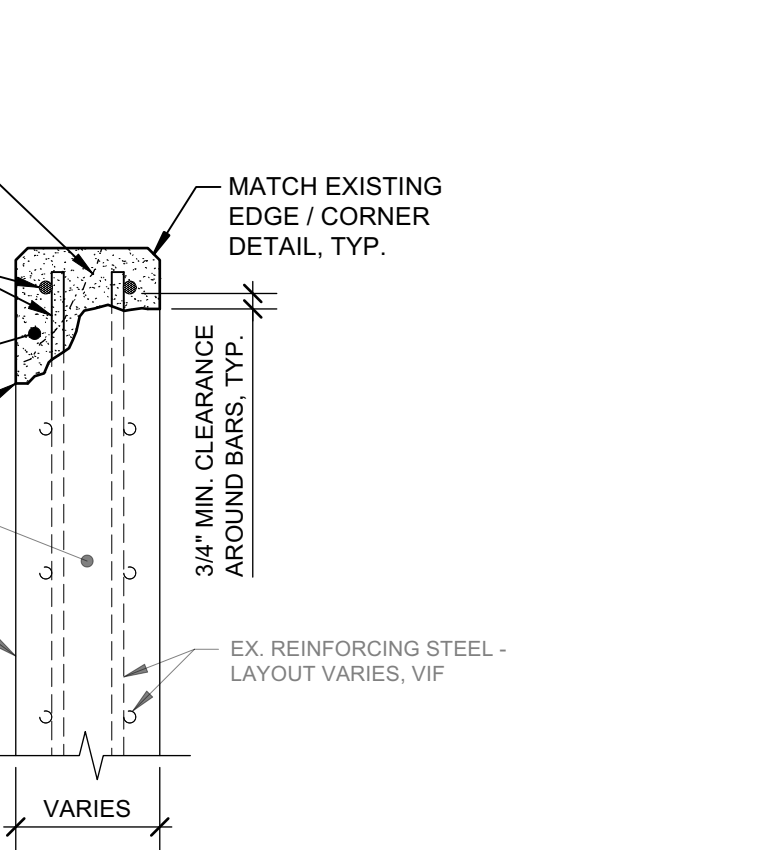
TYP NEW-TO-EXISTING REINFORCING BAR SPICE DETAIL



PARTIAL-DEPTH RESTORATION AT ALL CONCRETE SURFACES WHERE DETERIORATION DOES NOT EXTEND BEYOND MID-DEPTH OF REINFORCING STEEL CLOSEST TO SURFACE



PARTIAL-DEPTH RESTORATION AT SLAB, JOINT OR WALL FACE WHERE DETERIORATION EXTENDS BEYOND MID-DEPTH OF REINFORCING STEEL CLOSEST TO SURFACE



RESTORATION AT TOP OF WALL, BOTTOM OF BEAM, OR EDGE OF SLAB WHERE DETERIORATION EXTENDS BEYOND MID-DEPTH OF REINFORCING STEEL CLOSEST TO SURFACE



TYP PARTIAL-DEPTH CONCRETE RESTORATION PLAN DETAIL

NOTES: 1. WHERE WELDED SPICES ARE REQUIRED, REPLACEMENT REBAR TO BE ASTM A706 GRADE 60 DEFORMED BARS (DIAMETER OR REPLACEMENT BAR TO MATCH THAT OF EXISTING UNCORRODED BAR (VF)).

TYP PARTIAL-DEPTH CONCRETE RESTORATION SECTIONS

REINFORCING STEEL WELDED SPICE SCHEDULE		
BAR SIZE (DIA., $d_b$ )	MIN. $L_w$	ANGLE SIZE & MIN. LENGTH (LP)
#3 ( $d_b = 0.375"$ )	1-1/4"	L1x1x14 x 3-1/2" LONG
#4 ( $d_b = 0.50"$ )	1-1/2"	L1-1/4x1-1/4x14 x 4" LONG
#5 ( $d_b = 0.625"$ )	2"	L1-1/4x1-1/4x14 x 5" LONG
#6 ( $d_b = 0.75"$ )	2-3/4"	L1-1/2x1-1/2x14 x 6-1/2" LONG

NOTES: 1. REPLACEMENT REINFORCING STEEL TO BE ASTM A706 GRADE 60 DEFORMED BARS.  
 2. SIZE / DIA. OF REPLACEMENT BARS TO MATCH EXISTING BARS WHERE UNCORRODED (VF).  
 3. WELDING ELECTRODE TO BE E60.  
 4. ANGLE TO BE ASTM A36.  
 5. WELD AND ANGLE LENGTHS INDICATED ARE MINIMUMS.  
 6. SEE ACCOMPANYING WELDED SPICE DETAILS.  
 7. AS AN ALTERNATIVE, WELDED SPICES MAY BE ACHIEVED WITH COMPLETE JOINT PENETRATION (CJP) BUTT WELDS, WITH APPROPRIATE BACKING. IF CJP WELDED SPICES ARE USED THE WELDING MUST BE PERFORMED UNDER THE OBSERVATION OF THE WELDING INSPECTOR.

GENERAL NOTES FOR CORING AND DRILLING INTO AND ANCHORING TO EXISTING STRUCTURAL CONCRETE (COLUMNS, BEAMS, WALLS AND ELEVATED SLABS)

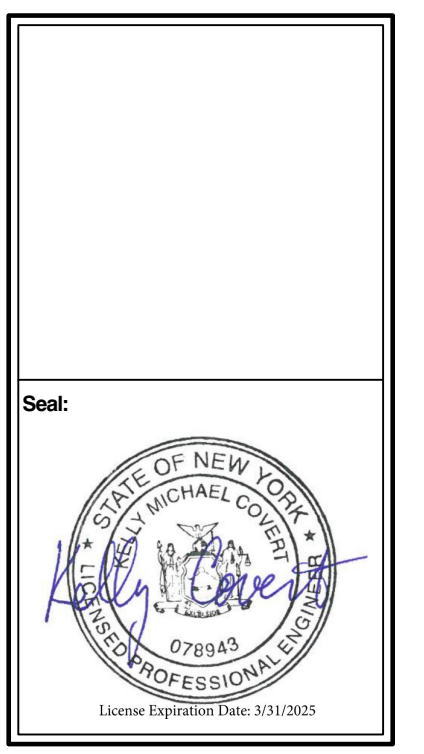
- THE INTENT IS FOR NO EXISTING REINFORCING STEEL TO BE CUT OR DAMAGED AS A RESULT OF CORING THROUGH OR DRILLING INTO AND INSTALLING ANCHORS INTO EXISTING STRUCTURAL CONCRETE.
- PRIOR TO ANY CORING OR DRILLING FOR INSTALLING ANY ANCHORS, CONTRACTOR SHALL SCAN THE CONCRETE SURFACE, USING NON-DESTRUCTIVE METHODS, IN THE AREA TO BE CORED OR DRILLED FOR ANCHORS, TO ACCURATELY IDENTIFY LOCATION OF REINFORCING STEEL WITHIN THE CONCRETE. NO CORING OR DRILLING FOR ANCHORS MAY COMMENCE UNTIL SCANNING IS COMPLETE, AND REINFORCING STEEL LAYOUT IS DETERMINED AND ANCHORS ARE INSTALLED. SCANNING SHALL BE PERFORMED ON THE SURFACE BEING ANCHORED TO, DEPENDING ON THE CAPABILITIES OF THE SCANNING EQUIPMENT. SCANNING MAY BE REQUIRED ON THE OPPOSITE SURFACE OF THE CONCRETE ELEMENT, ESPECIALLY FOR ANCHORAGES REQUIRING DEEP EMBEDMENTS MORE THAN HALF THE THICKNESS OF THE CONCRETE ELEMENT. FOR CORING, SCANNING OF BOTH FACES IS REQUIRED.
- SHOULD CORING OR DRILLING FOR ANCHORS ENCOUNTER REINFORCING STEEL, STOP DRILLING AND ADJUST HOLE LOCATION TO MISS REINFORCING STEEL. DO NOT ATTEMPT TO DRILL THROUGH EXISTING REINFORCING STEEL, UNLESS APPROVED BY THE ENGINEER. NOTIFY ENGINEER IF STEEL FRAMING REQUIRES MODIFICATIONS DUE TO SHIFTED ANCHOR LOCATIONS.

SUMMARY PROCEDURE FOR PARTIAL-DEPTH CONCRETE RESTORATION

- SEE SPECIFICATION SECTION 030138.71 "REHABILITATION OF CAST-IN-PLACE CONCRETE" FOR ADDITIONAL INFORMATION NOT INCLUDED HEREIN. IF SPECIFICATIONS CONFLICT WITH RESTORATION PRODUCT MANUFACTURER'S REQUIREMENTS THE MORE STRINGENT REQUIREMENTS SHALL APPLY.
- SEE PLANS FOR APPROXIMATE LOCATIONS AND EXTENT OF SPALLED OR DETERIORATED CONCRETE REQUIRING PARTIAL-DEPTH RESTORATION. DETERMINE AND MARK THE EXTENT OF THE AREAS TO BE RESTORED. SOUND THE CONCRETE WITH A HAMMER TO DETERMINE THE EXTENT OF THE DETERIORATED CONCRETE. BASE BID QUANTITIES SHOWN ON DRAWINGS ARE APPROXIMATE AND FOR CONTRACTOR REFERENCE ONLY.
- MARK OUT PERIMETER OF RESTORATION AREA USING A MINIMAL NUMBER OF STRAIGHT LINES. ALL CORNERS SHALL BE 90 DEGREE. CORNERS GREATER OR EQUAL TO 180 DEGREE SHALL BE 90 DEGREE. NO RE-ENTRANT (INSIDE) CORNERS WILL BE ALLOWED. DETERMINE AND RECORD RESTORATION AREA TO NEAREST 0.1 SQUARE FOOT.
  - CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO WEATHER.
  - FORMED CONCRETE SURFACES EXPOSED TO EARTH OR EARTH:
    - #5 BARS & SMALLER - 1-1/2"
    - #6 BARS & LARGER - 2"
    - UNFORMED SURFACES.
    - TOP OF SLABS ON GRADE - 1-1/2"
- USING HAND TOOLS, REMOVE ALL RUST LAMINATIONS FROM EXPOSED REINFORCING STEEL. IF EXISTING REINFORCING STEEL EXHIBITS SIGNIFICANT SECTION LOSS (GREATER THAN 15 PERCENT), SHORE MEMBER AND NOTIFY ENGINEER FOR REVIEW. SUPPLEMENTAL REINFORCING STEEL, IF REQUIRED, SHALL BE AS DIRECTED BY ENGINEER AND PERFORMED ON A LABOR AND MATERIALS BASIS.
- USING HAND TOOLS, REMOVE ALL RUST LAMINATIONS FROM EXPOSED REINFORCING STEEL. IF EXISTING REINFORCING STEEL EXHIBITS SIGNIFICANT SECTION LOSS (GREATER THAN 15 PERCENT), SHORE MEMBER AND ADD SUPPLEMENTAL REINFORCING STEEL OF SAME DIAMETER AS EXISTING REINFORCING STEEL. SUPPLEMENTAL REINFORCING STEEL SHALL BE WELDED, WELDABLE, UNCORRODED EXISTING REINFORCING STEEL TO ALLOW FOR WELDED SPICE OF REPLACEMENT REINFORCING STEEL. SEE TYPICAL REINFORCING STEEL WELDED SPICE DETAIL DRAWING. INDICATE BASE BID QUANTITIES OF ANTICIPATED REINFORCING STEEL SIZE AND LENGTHS TO BE INSTALLED AT EACH AREA OF RESTORATION. REINFORCING STEEL TO BE VERIFIED IN FIELD. SPECIAL INSPECTOR SHALL INSPECT ALL FIELD-WELDED SPICES OF REINFORCING STEEL. IF COMPLETE JOINT PENETRATION WELDED SPICES ARE USED THE SPECIAL INSPECTOR MUST OBSERVE ALL WELDS AT THE TIME OF WELDING.
- POWERWASH SUBSTRATES WITH CLEAN WATER AT 1,500 TO 3,000 PSI AND ALLOW SURFACES TO DRY TO A SATURATED-SURFACE-DRY CONDITION WITH NO STANDING WATER JUST PRIOR TO APPLYING RESTORATION MATERIALS.
- CONTACT SPECIAL INSPECTOR TO REVIEW AND APPROVE EACH SUBSTRATE AREA PRIOR TO APPLICATION OF ANY COATING OR RESTORATION MATERIAL.
- COAT EXPOSED REINFORCING STEEL WITH TWO COATS OF BONDING / ANTI-CORROSION AGENT PER MANUFACTURER'S APPLICATION INSTRUCTIONS AND ALLOW TO DRY.
- REWET RESTORATION AREA SURFACES TO A SATURATED-SURFACE-DRY CONDITION WITH NO STANDING WATER.
- APPLY SCRUB COAT OF RESTORATION MORTAR TO SUBSTRATE. WHILE SCRUB COAT IS STILL WET, BEGIN APPLYING RESTORATION MORTAR PER MANUFACTURER'S APPLICATION INSTRUCTIONS. FORCE MORTAR AGAINST EDGES OF RESTORATION AREA AND WORK TOWARDS CENTER. TAKE CARE TO FILL ALL VOIDS AROUND REINFORCING STEEL.
- DO NOT EXCEED MAXIMUM LIFT THICKNESS FOR RESTORATIONS REQUIRING TWO OR MORE LIFTS. SCORE OR ROUGHEN SURFACE OF RESTORATION MORTAR TO PROVIDE MECHANICAL KEY. SET BEFORE APPLYING SUCCESSIVE LIFT. DO NOT ALLOW REINFORCING MATERIAL TO DRY BETWEEN LIFTS. SURFACE OF RESTORATION AREA TO MATCH THAT OF ADJACENT UNRESTORED CONCRETE. REPRODUCING THE ELEMENT'S ORIGINAL PROFILE. FOR DEEP HORIZONTAL RESTORATIONS, EXTEND RESTORATION MORTAR WITH COARSE CRUSHED STONE AGGREGATE AS REQUIRED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- APPLY CURING SYSTEM IMMEDIATELY AFTER FINISHING. FOLLOW ACI RECOMMENDATIONS. IF CURING SYSTEM CONSISTS OF APPLYING A LIQUID MEMBRANE-FORMING CURING COMPOUND, APPLY ONE UNIFORM COAT FOR OVERHEAD OR VERTICAL SURFACES AND TWO UNIFORM COATS FOR HORIZONTAL SURFACES. DO NOT APPLY CURING COMPOUND BETWEEN SUCCESSIVE LIFTS OF RESTORATION MATERIAL. CURING SYSTEM SHALL NOT PREVENT BONDING OF PAINT, IF SURFACE IS TO BE PAINTED.

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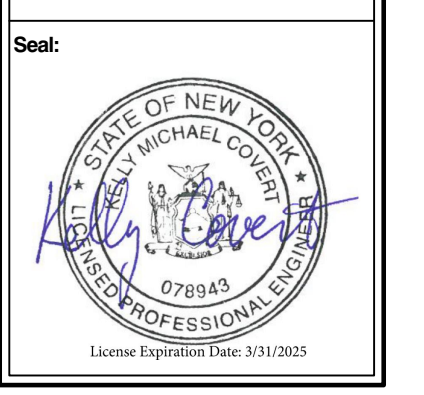
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SUNY CORTLAND  
 MILLER ADMINISTRATION BUILDING STAIRS AND WALK REPLACEMENT  
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 CORTLAND, NY 13045

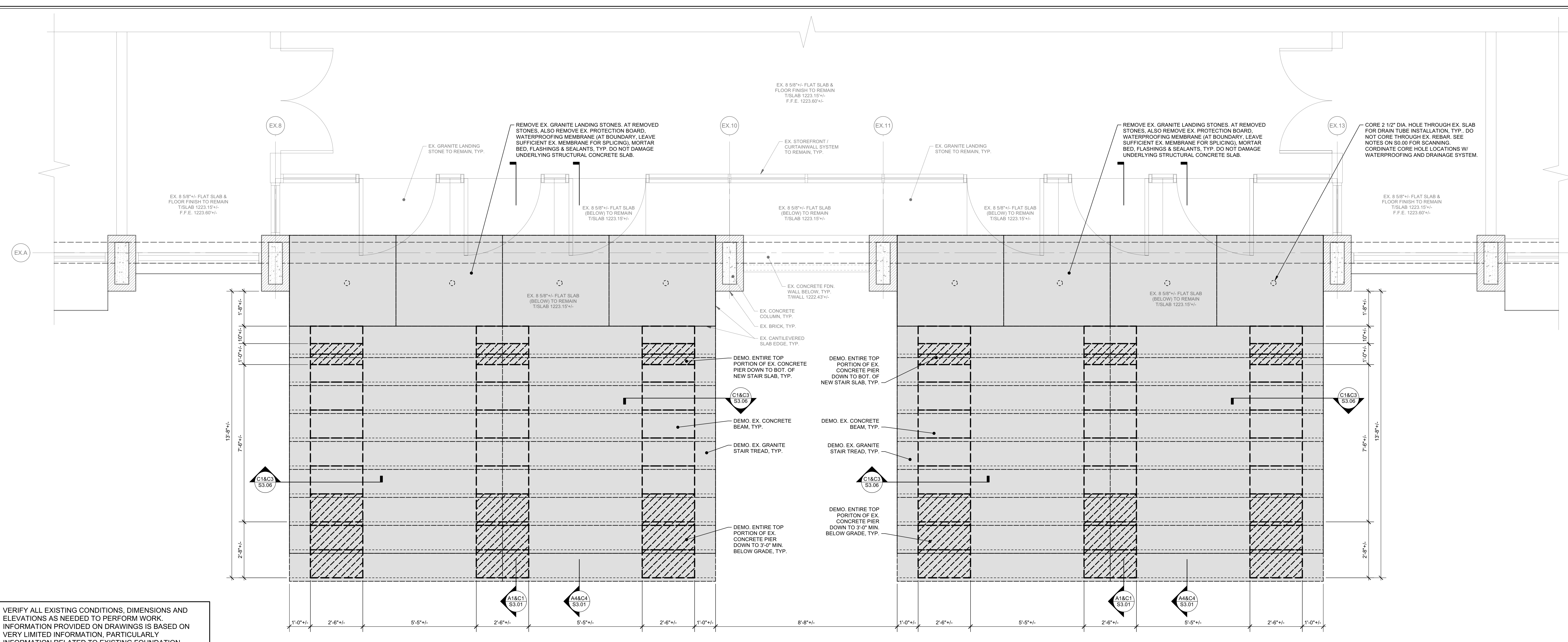
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 Date: \_\_\_\_\_  
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 Scale: AS SHOWN  
 Date: APRIL 19, 2024  
 GENERAL NOTES & TYPICAL DETAILS  
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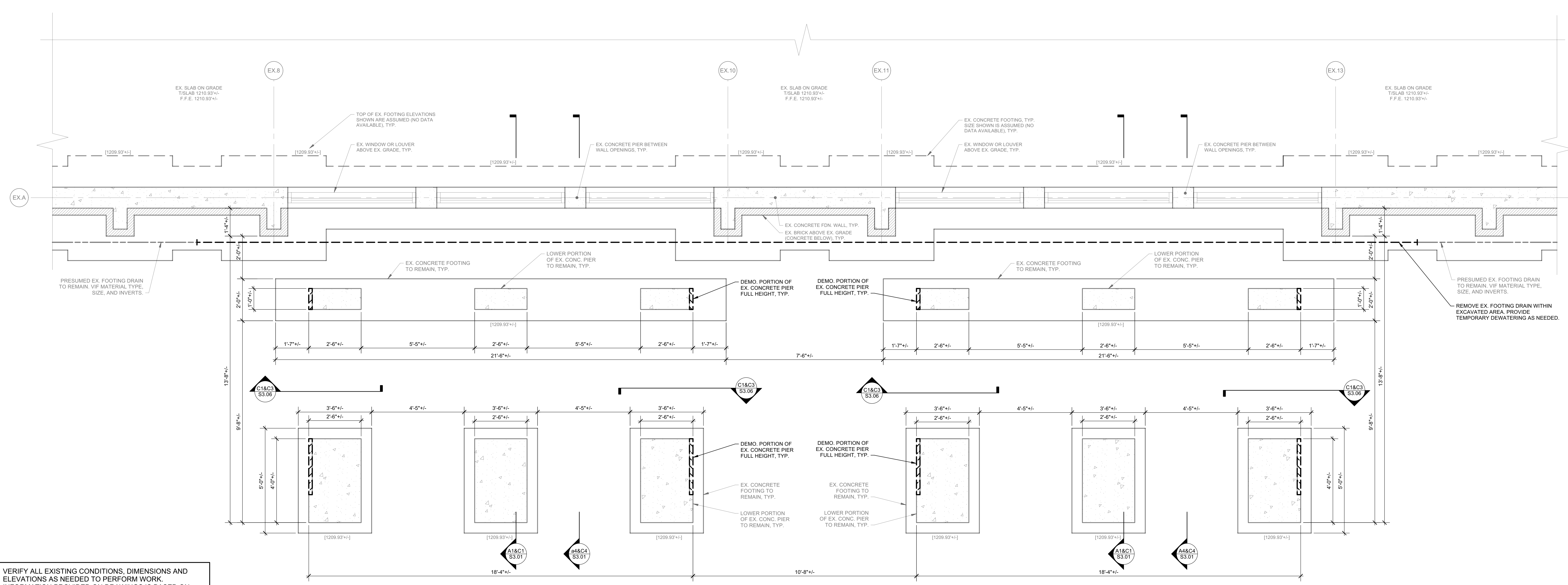
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NOTES: 1. SEE SITE / LANDSCAPE DRAWINGS FOR DEMOLITION OF CONCRETE SIDEWALKS.  
**DEMOLITION PLAN - GROUND FLOOR LEVEL**  
Scale: 1/2" = 1'-0"



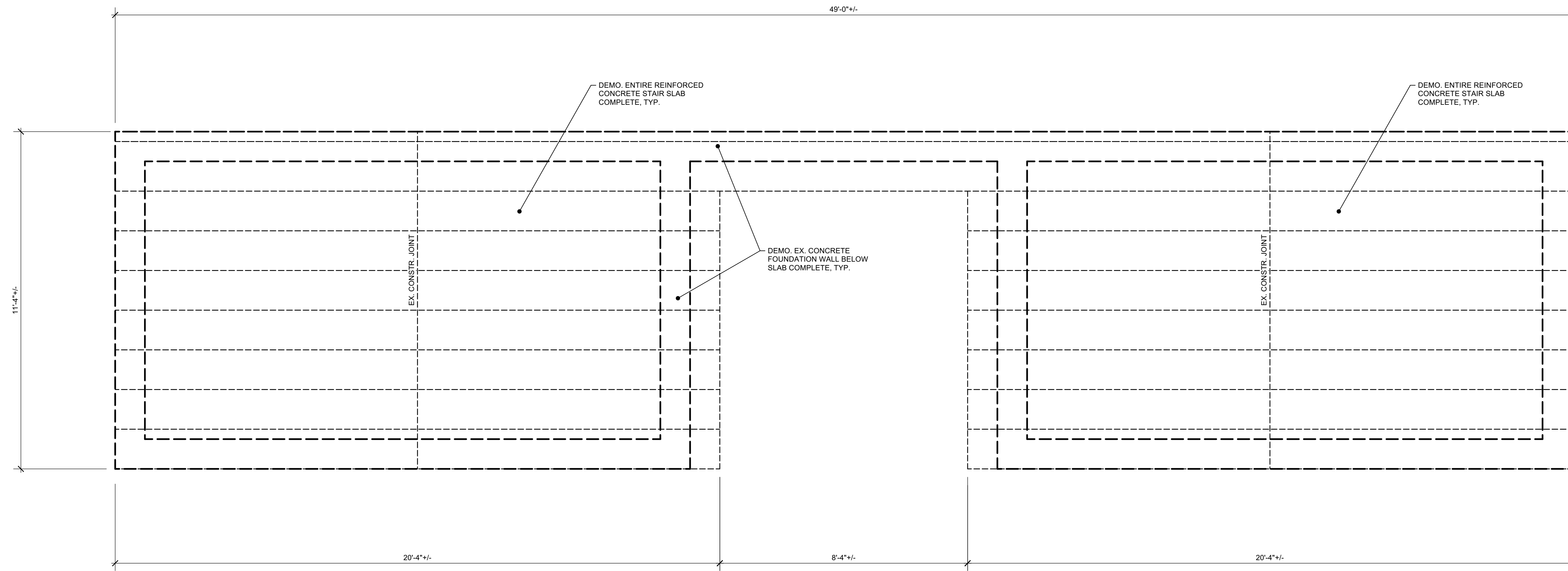
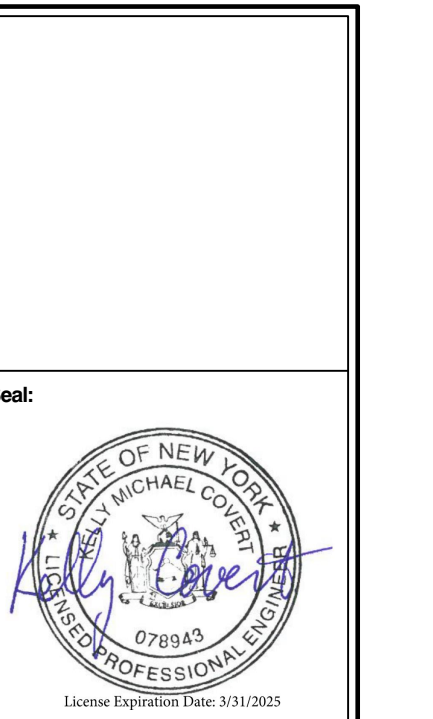
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**DEMOLITION PLAN - FOUNDATION / BASEMENT LEVEL**  
Scale: 1/2" = 1'-0"





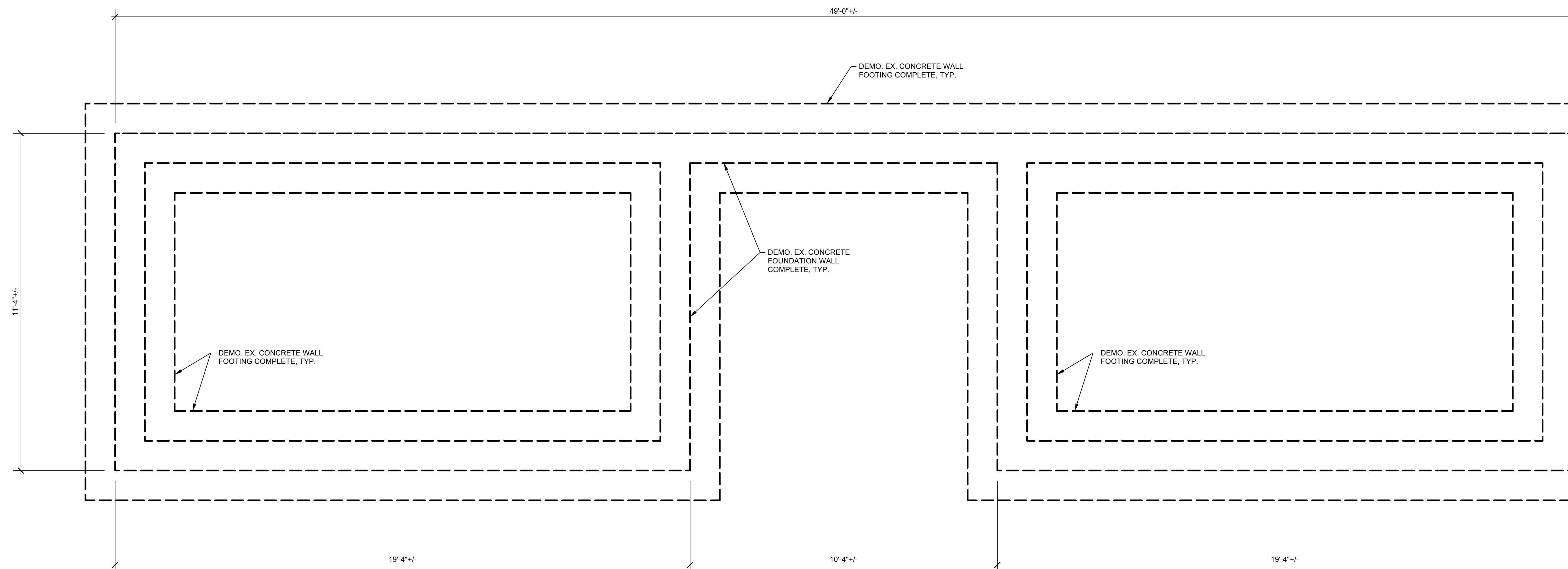
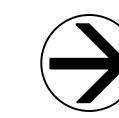




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NOTES: 1. FOR BIDDING PURPOSES, ASSUME EXISTING STAIRS ARE 8" MIN. THICK REINFORCED CONCRETE.  
2. SEE SITE / LANDSCAPE DRAWINGS FOR DEMOLITION OF CONCRETE SIDEWALKS.

**DEMOLITION PLAN - TOP OF SLAB LEVEL**  
Scale: 1/2" = 1'-0"



VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS AS NEEDED TO PERFORM WORK. INFORMATION PROVIDED ON DRAWINGS IS BASED ON VERY LIMITED INFORMATION, PARTICULARLY INFORMATION RELATED TO EXISTING FOUNDATION ELEMENTS BELOW GRADE. AT START OF CONSTRUCTION, VERIFY CONDITIONS AND NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO PREPARING SHOP DRAWINGS AND ORDERING MATERIALS.

NOTES: 1. FOR BIDDING PURPOSES, ASSUME ALL FOOTINGS ARE 12" THICK x 36" WIDE REINFORCED CONCRETE AND BEAR 5'-0" BELOW GRADE AT BOTTOM OF STAIR.  
2. FOR BIDDING PURPOSES, ASSUME ALL FOUNDATION WALLS ARE 12" THICK REINFORCED CONCRETE.

**DEMOLITION PLAN - FOUNDATION LEVEL**  
Scale: 1/2" = 1'-0"



Revision	By	Date	Issued For

Project Number: 341107-020  
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Date: **APRIL 19, 2024**  
 Drawing: **DEMOLITION PLANS - LOWER EAST STAIRS**  
 Sheet Number: **S0.03**





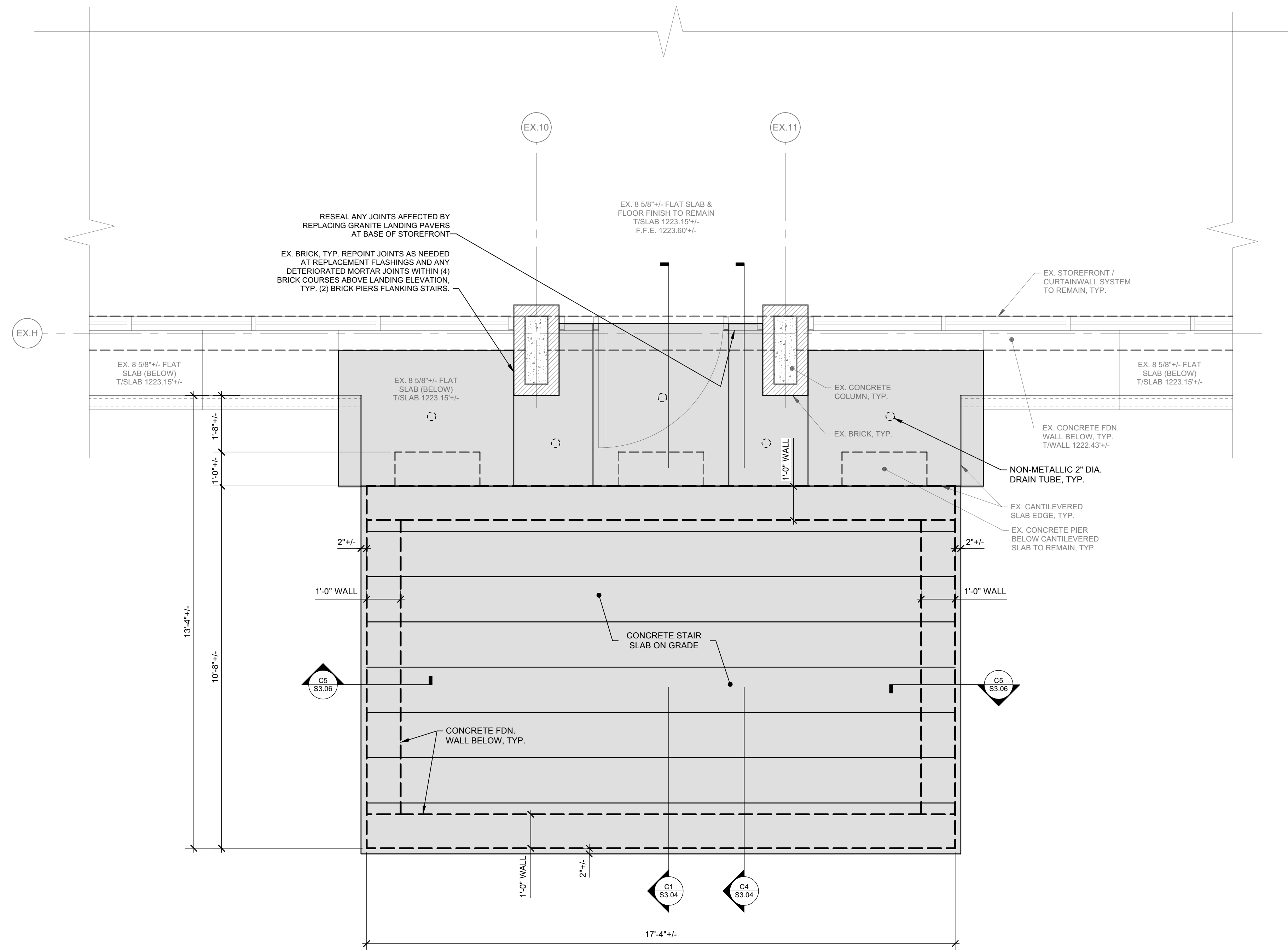




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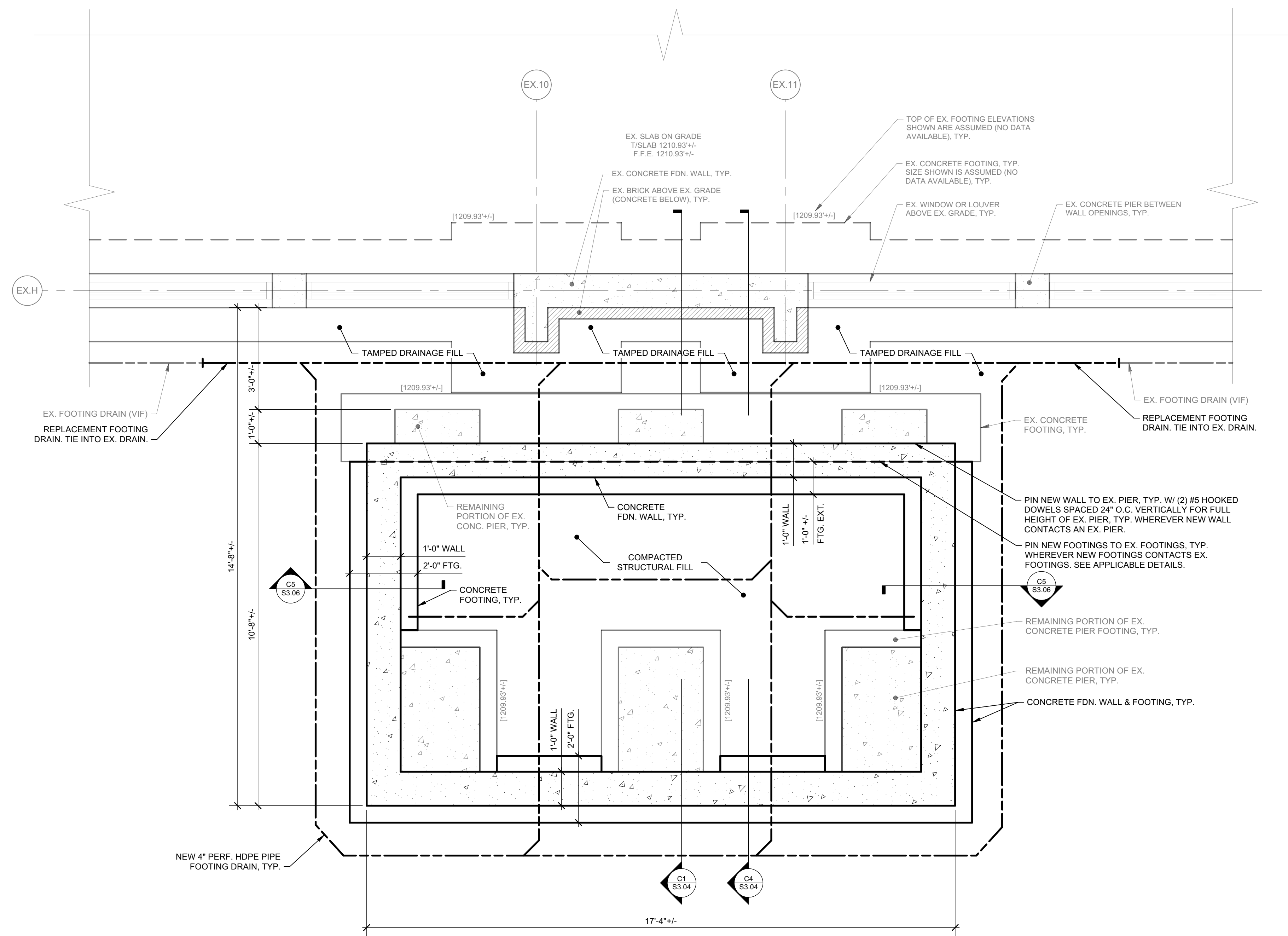
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NOTES: 1. SHADED AREA REPRESENTS AREA OF REPLACEMENT GRANITE LANDING PAVERS AND STAIR TREADS. JOINTING PATTERN INDICATED FOR LANDING PAVERS IS CONSISTENT WITH EXISTING JOINTING PATTERN. JOINTING PATTERN FOR STAIR TREADS TO BE DETERMINED BY STONE MASON FOLLOWING REVIEW OF SIZES AND QUANTITIES OF STOCKPILED GRANITE. CONTRACTOR SHALL SUBMIT PROPOSED STONE JOINTING LAYOUT FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.

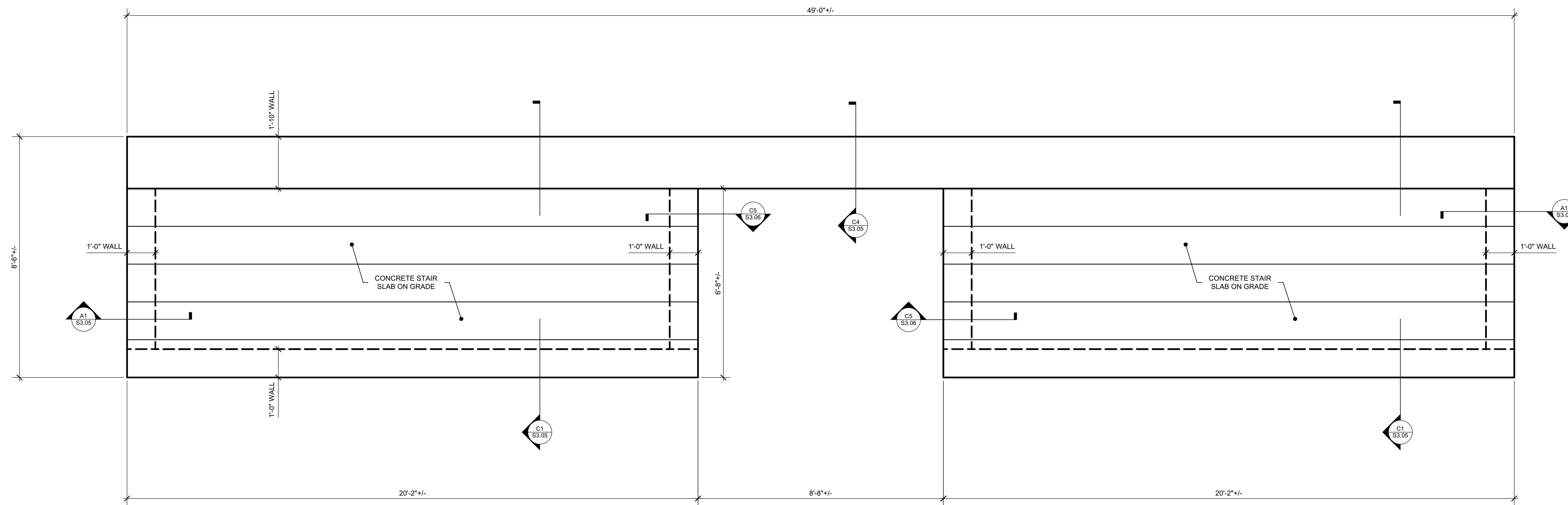
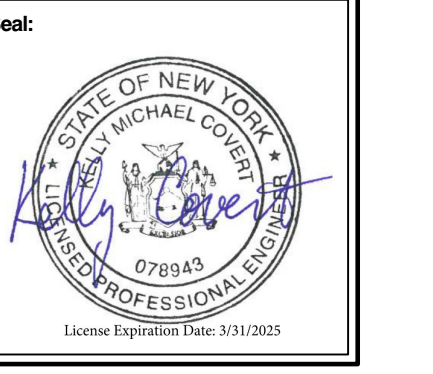
**CONSTRUCTION PLAN - GROUND FLOOR LEVEL**  
 Scale: 1/2" = 1'-0"

DETAILING OF REPLACEMENT WATERPROOFING SYSTEM AND MOISTURE MANAGEMENT BELOW GRANITE LANDING PAVERS TO BE DETERMINED DURING CONSTRUCTION FOLLOWING INITIAL REMOVAL OF EXISTING GRANITE LANDING PAVERS. FOR BIDDING PURPOSES, ASSUME FOLLOWING REPAIRS TO EXISTING CANTILEVERED CONCRETE SLAB THE SLAB WILL RECEIVE A SLOPED MORTAR BED, WATERPROOFING MEMBRANE, DRAINAGE MAT, MORTAR BED, AND FINALLY THE GRANITE LANDING PAVERS. NOTIFY ARCHITECT WHEN INITIAL REMOVALS ARE SCHEDULED TO BE PERFORMED SO THAT A SITE VISIT CAN BE MADE TO HELP DETERMINE FINAL CONSTRUCTION DETAILS.



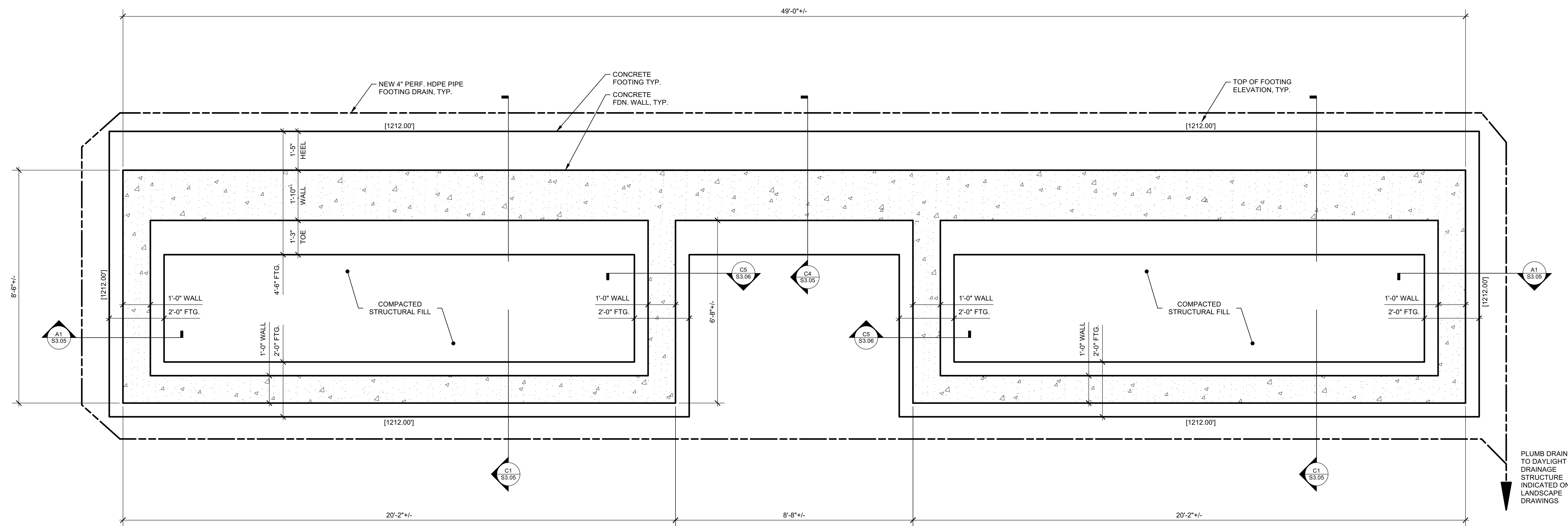
**CONSTRUCTION PLAN - FOUNDATION / BASEMENT LEVEL**  
 Scale: 1/2" = 1'-0"





NOTES: 1. LAYOUT OF JOINTING OF STONE LANDING PAVERS AND STAIR TREADS NOT SHOWN. CONTRACTOR SHALL PROVIDE SUBMITTAL OF PROPOSED STONE JOINTING LAYOUT FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.

**C3** CONSTRUCTION PLAN - TOP OF SLAB LEVEL  
Scale: 1/2" = 1'-0"



**A3** CONSTRUCTION PLAN - FOUNDATION LEVEL  
Scale: 1/2" = 1'-0"

Revision	By	Date	Issued For

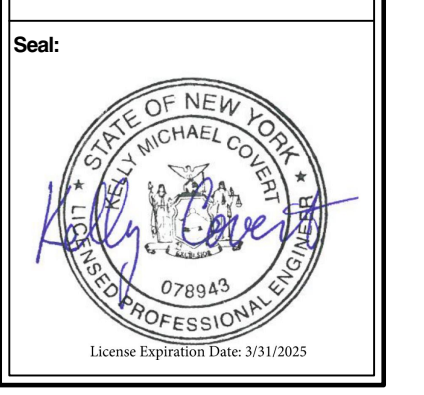
Project Number: 341107-020  
 Drawn By: KMC  
 Checked By: KMC  
 Scale: AS SHOWN

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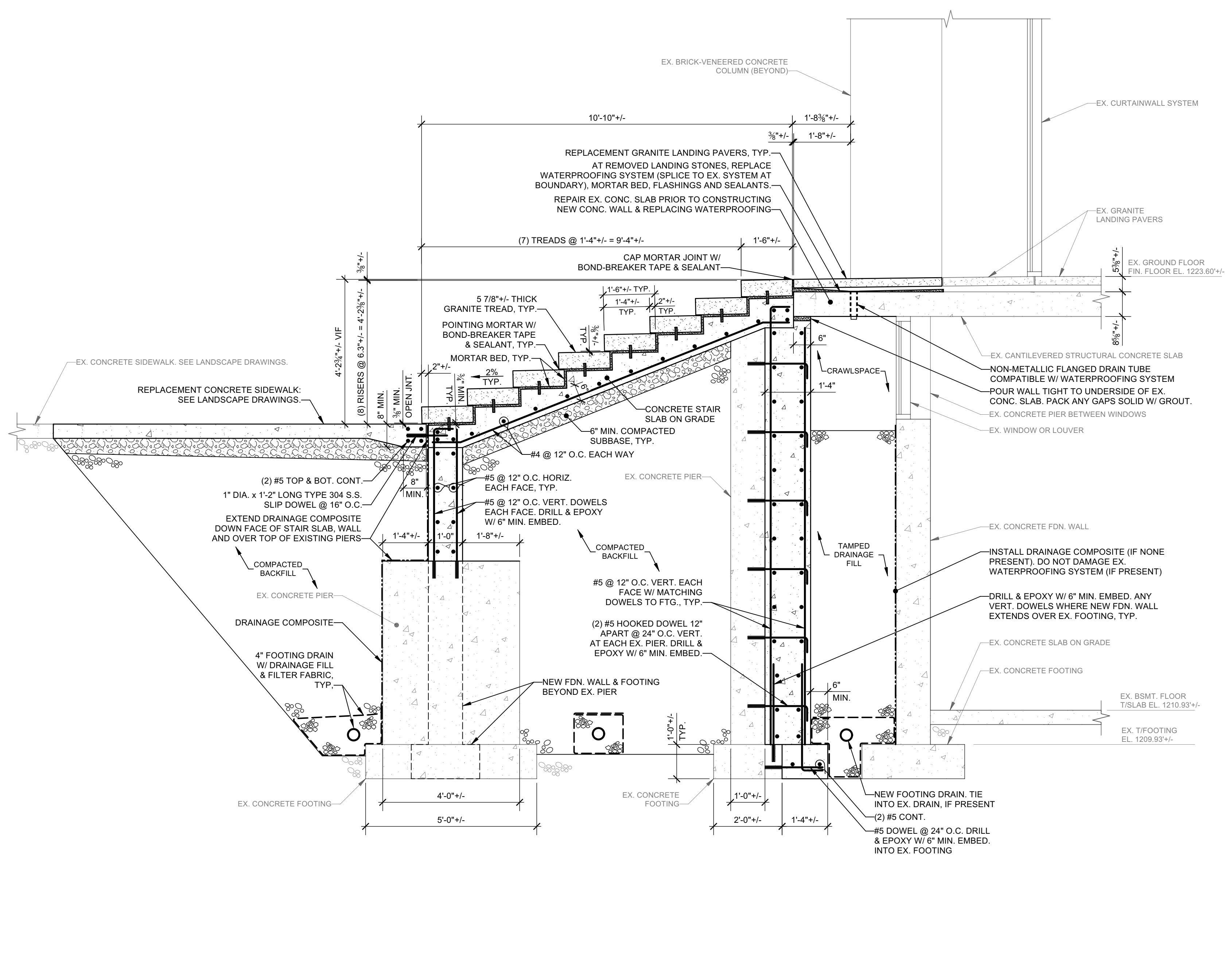




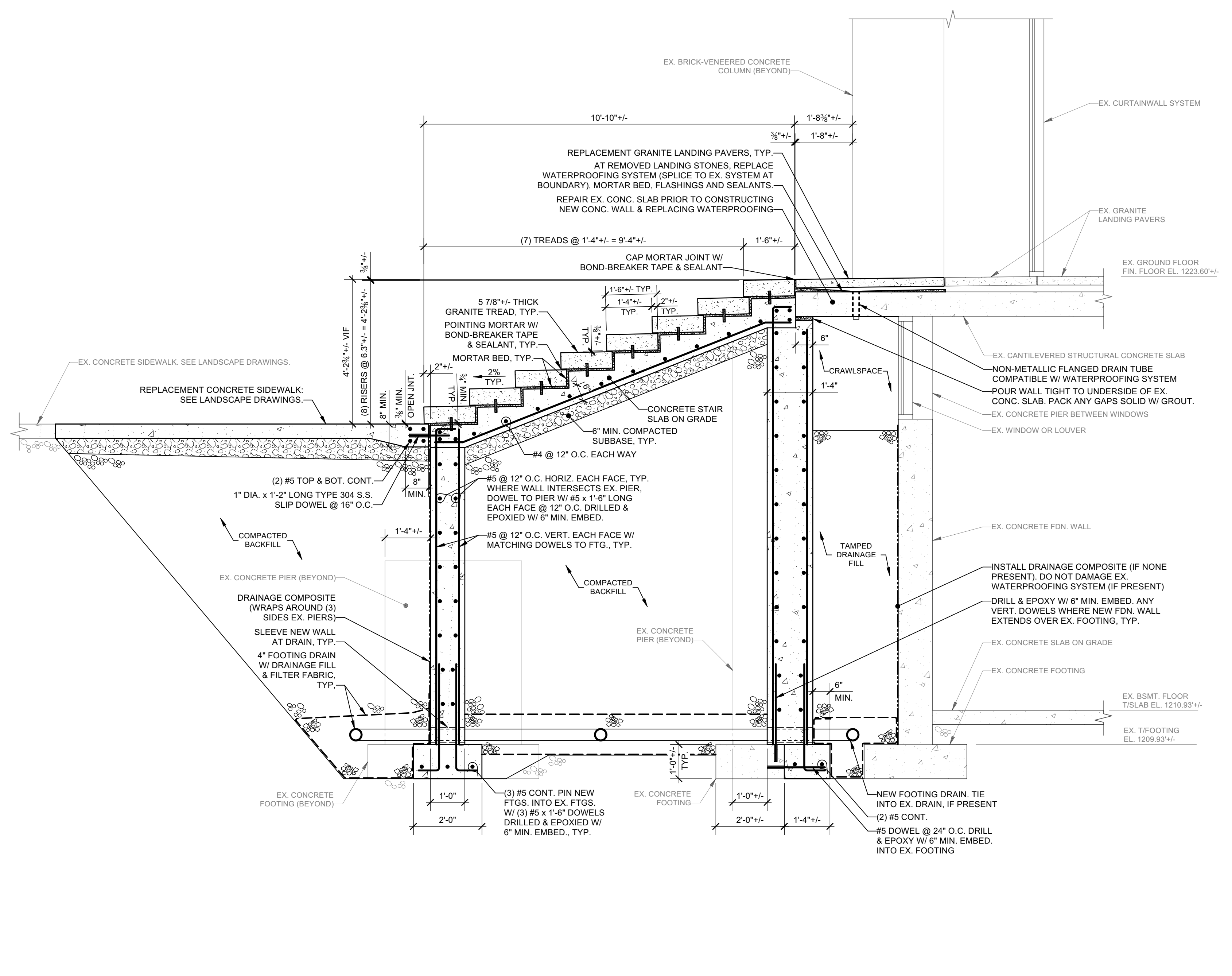
Revision	No.	Date	Issued For

Project Number: 341107-020  
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C1  
S3.02 SECTION - CONSTRUCTION - AT EX. PIERS  
Scale: 1/24 54021018

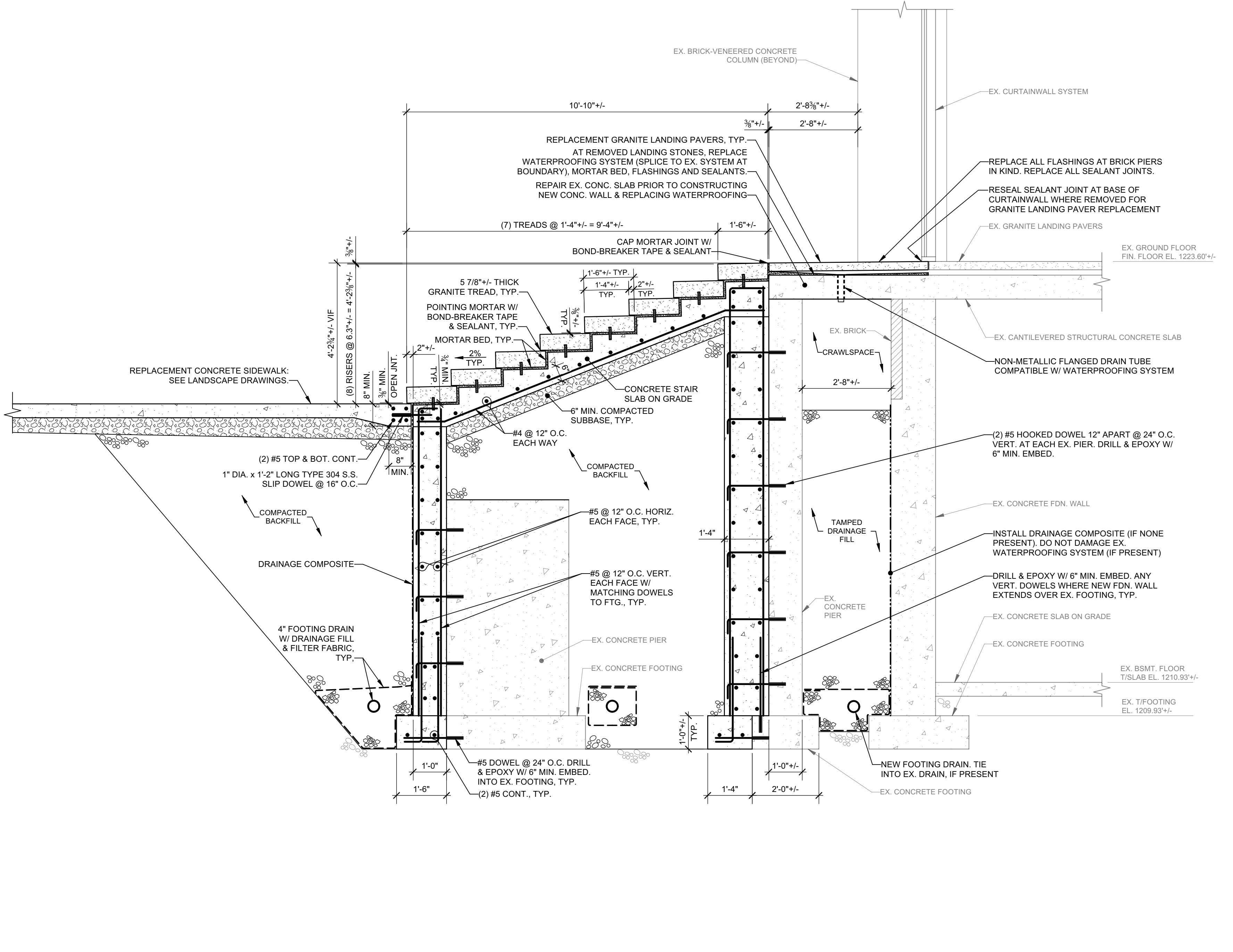
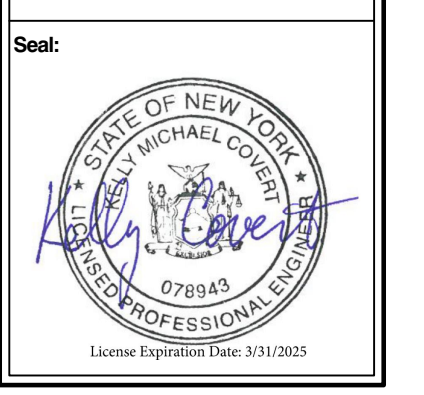


C4  
S3.02 SECTION - CONSTRUCTION - BETWEEN EX. PIERS  
Scale: 1/24 54021018

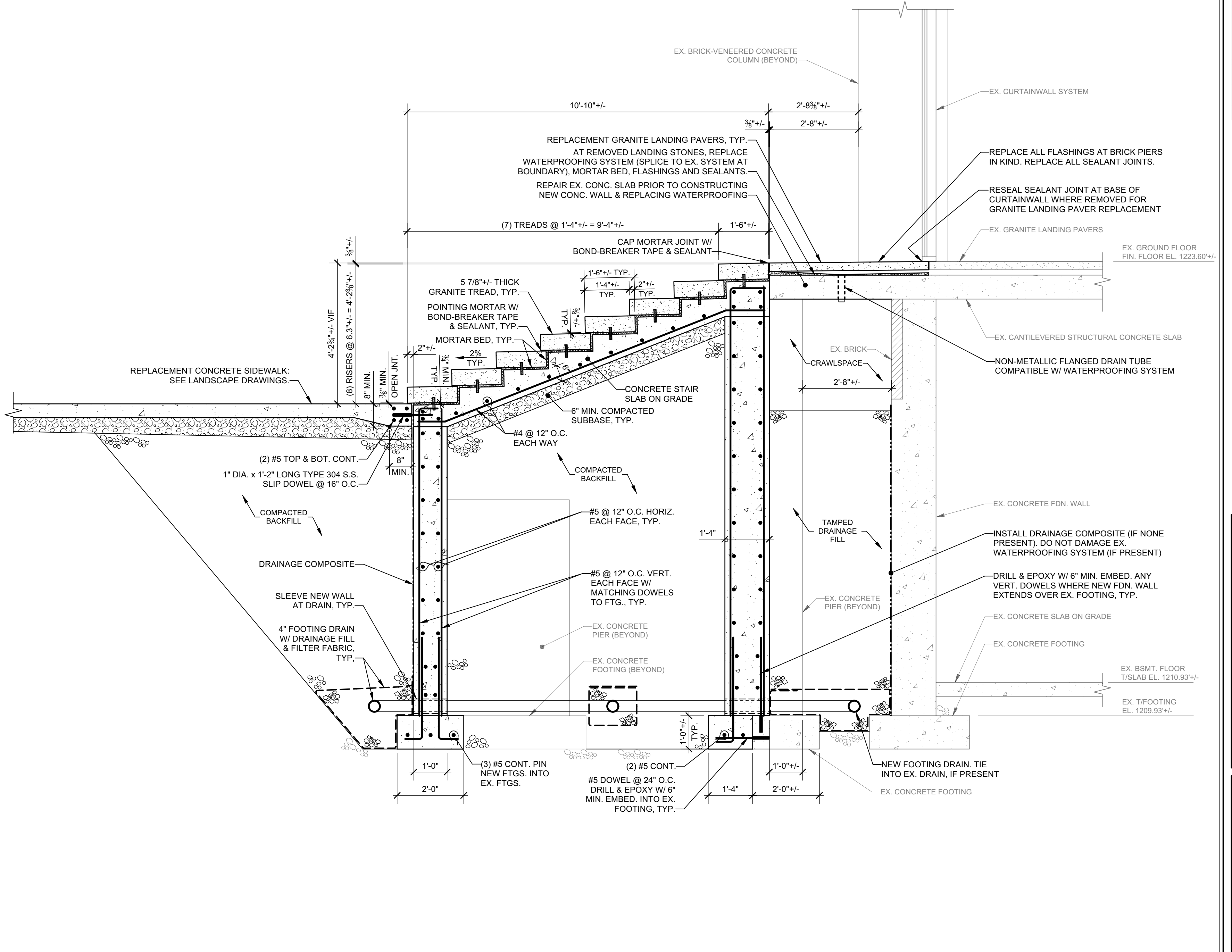








C1  
SECTION - CONSTRUCTION - AT EX. PIERS  
Scale: 1/2" = 1'-0"



C4  
SECTION - CONSTRUCTION - BETWEEN EX. PIERS  
Scale: 1/2" = 1'-0"

**SUNY CORTLAND**  
MILLER ADMINISTRATION BUILDING STAIRS AND WALK REPLACEMENT  
21 GRAHAM AVE.  
CORTLAND, NY 13045

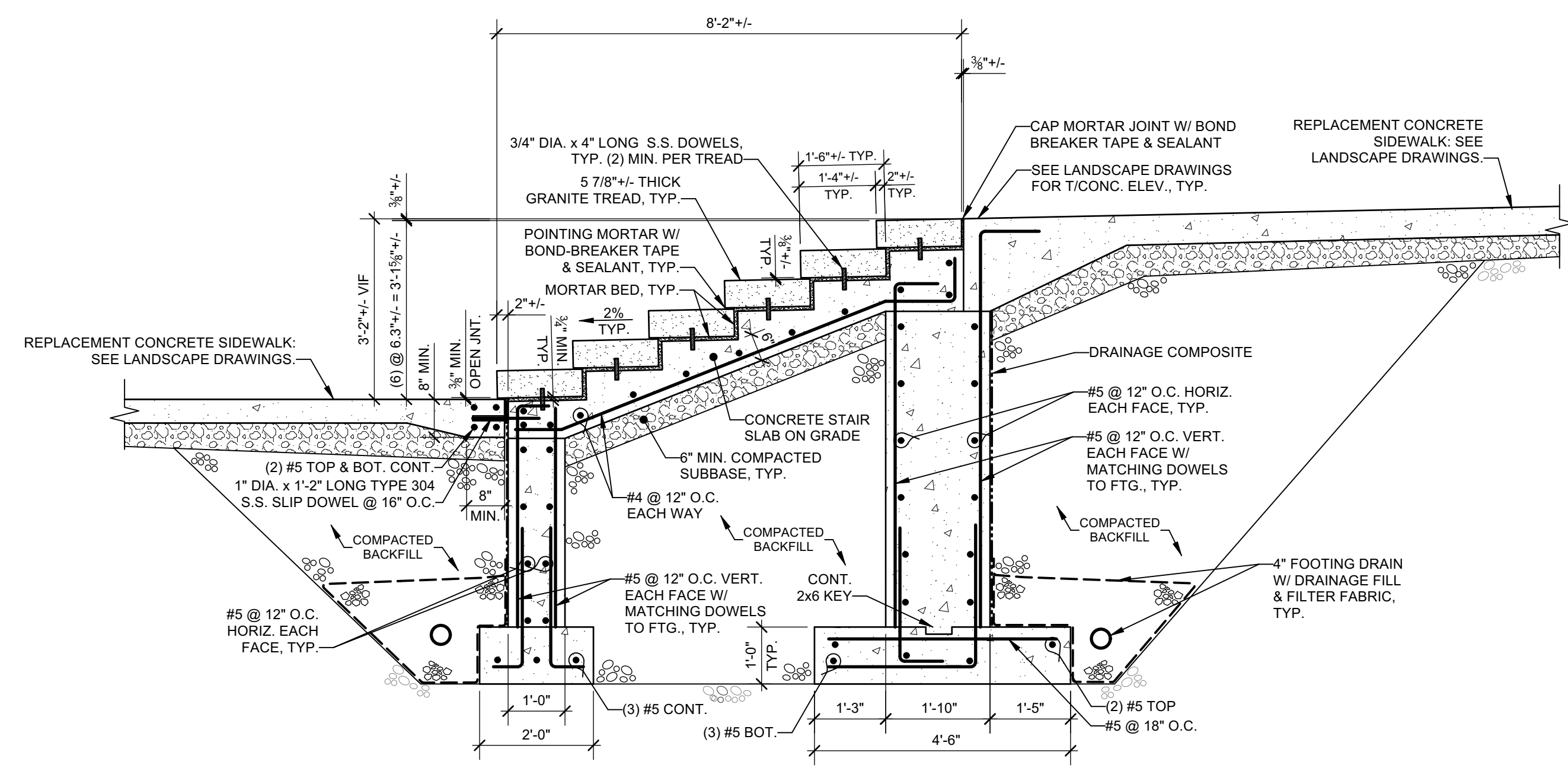
Revision	By	Date	Issued For

Project Number: 341107-020  
 Drawn By: KMC  
 Checked By: KMC  
 Scale: AS SHOWN

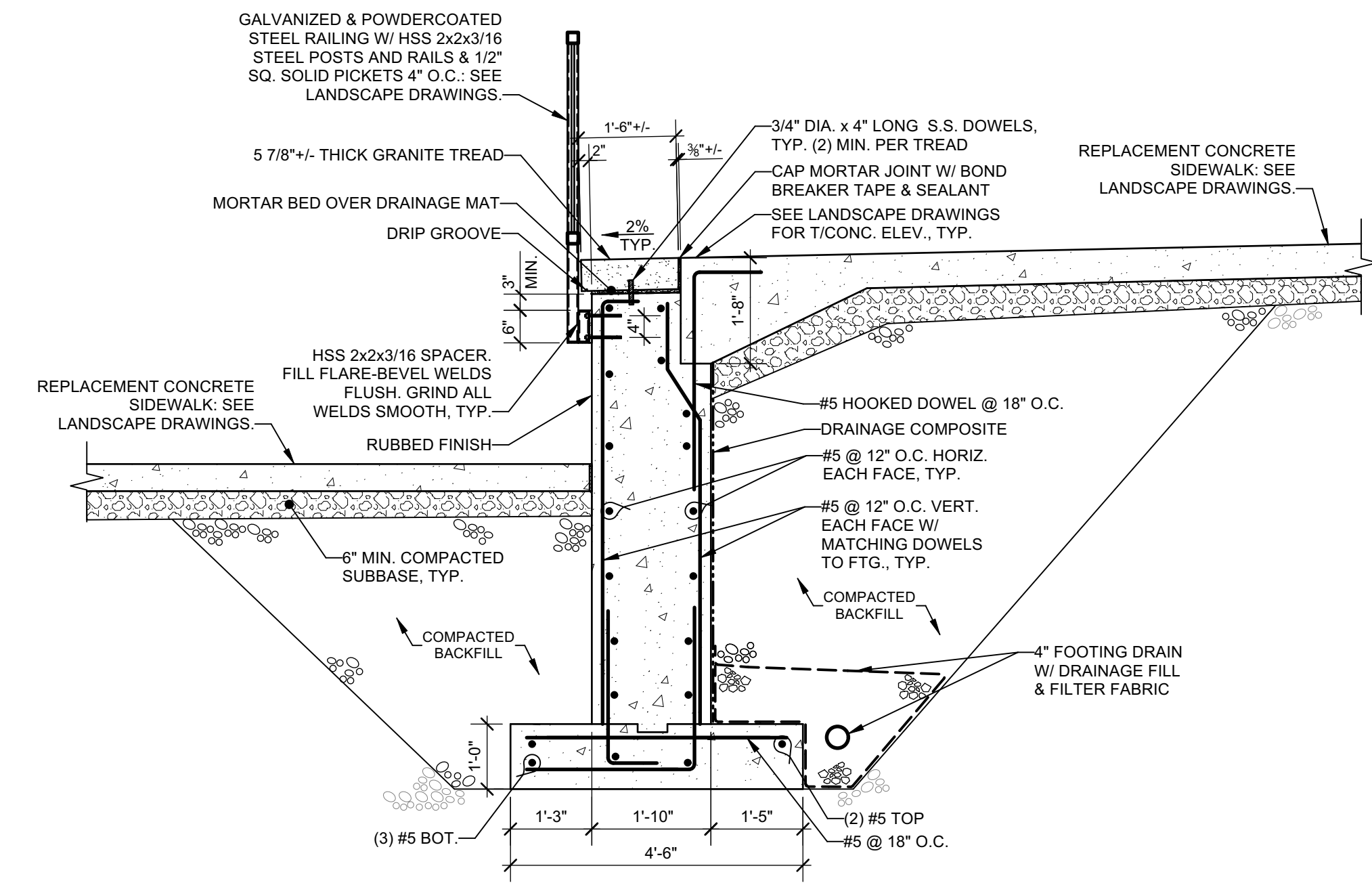
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Date: APRIL 19, 2024  
 Name: SECTIONS - UPPER EAST STAIRS  
 Sheet Number: S3.04

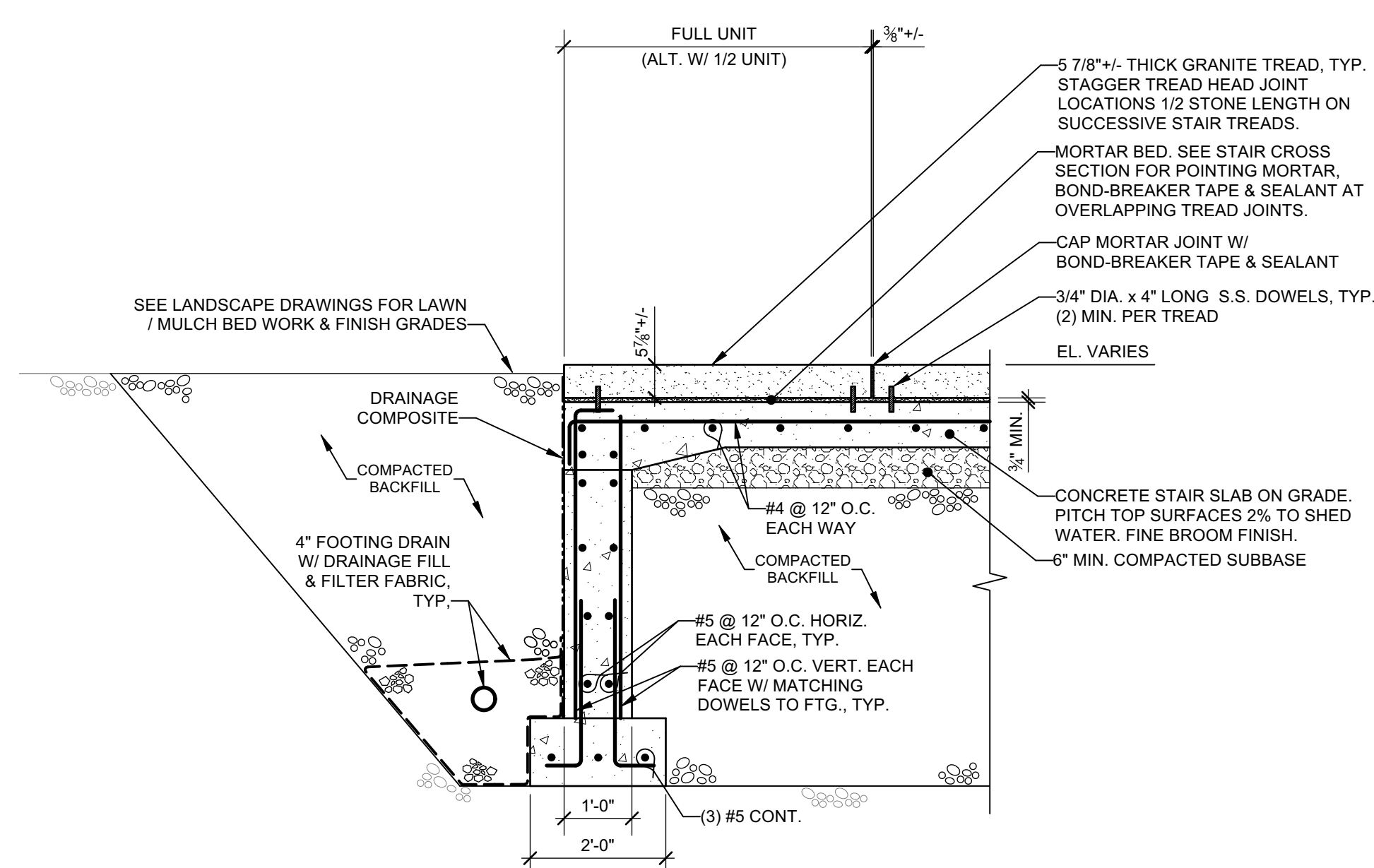




C1  
SECTION - CONSTRUCTION  
Scale: 1/2" = 1'-0"



C4  
SECTION - CONSTRUCTION  
Scale: 1/2" = 1'-0"



A1  
SECTION - CONSTRUCTION  
Scale: 1/2" = 1'-0"



**SUNY CORTLAND**  
MILLER ADMINISTRATION BUILDING STAIRS AND WALK REPLACEMENT  
21 GRAHAM AVE.  
CORTLAND, NY 13045

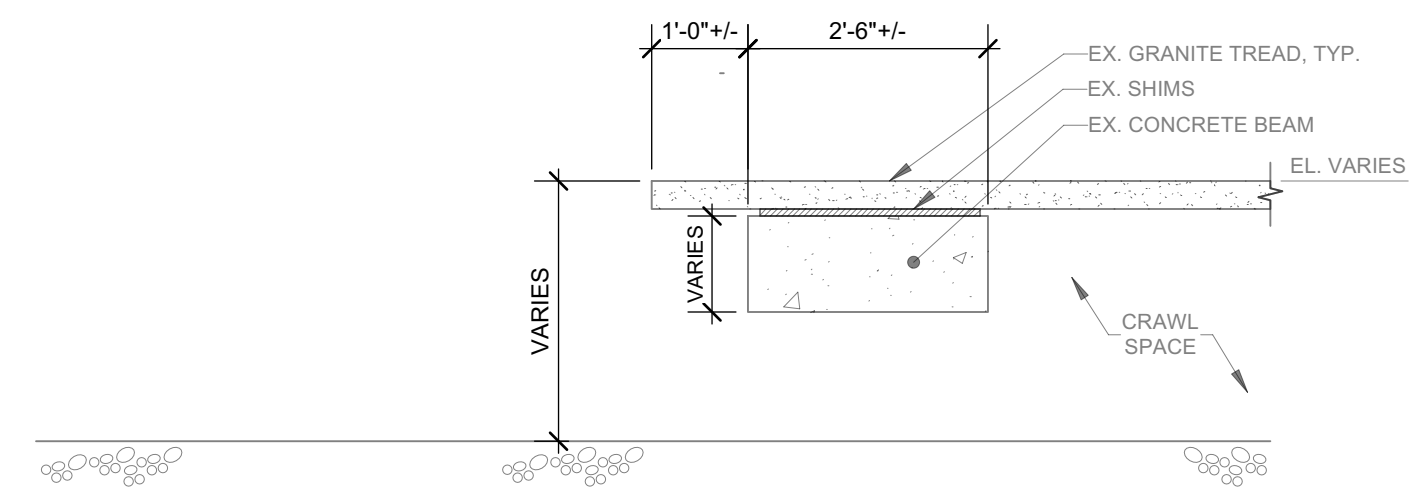
Revision	By	Date	Issued For

Project Number: 341107-020  
Drawn By: KMC  
Checked By: KMC  
Scale: AS SHOWN

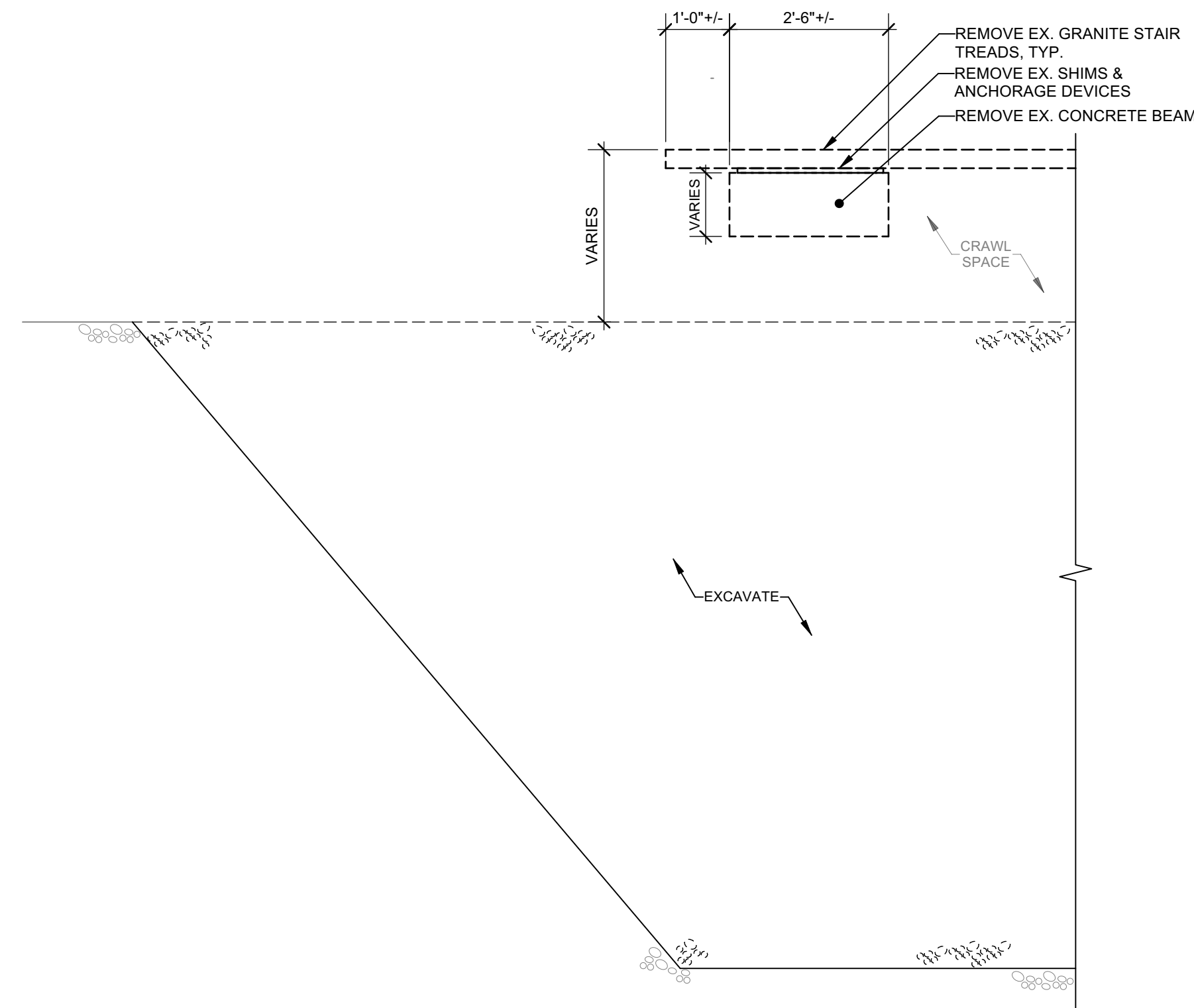
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Date: APRIL 19, 2024  
Drawing: SECTIONS - LOWER EAST STAIRS  
Sheet Number: S3.05

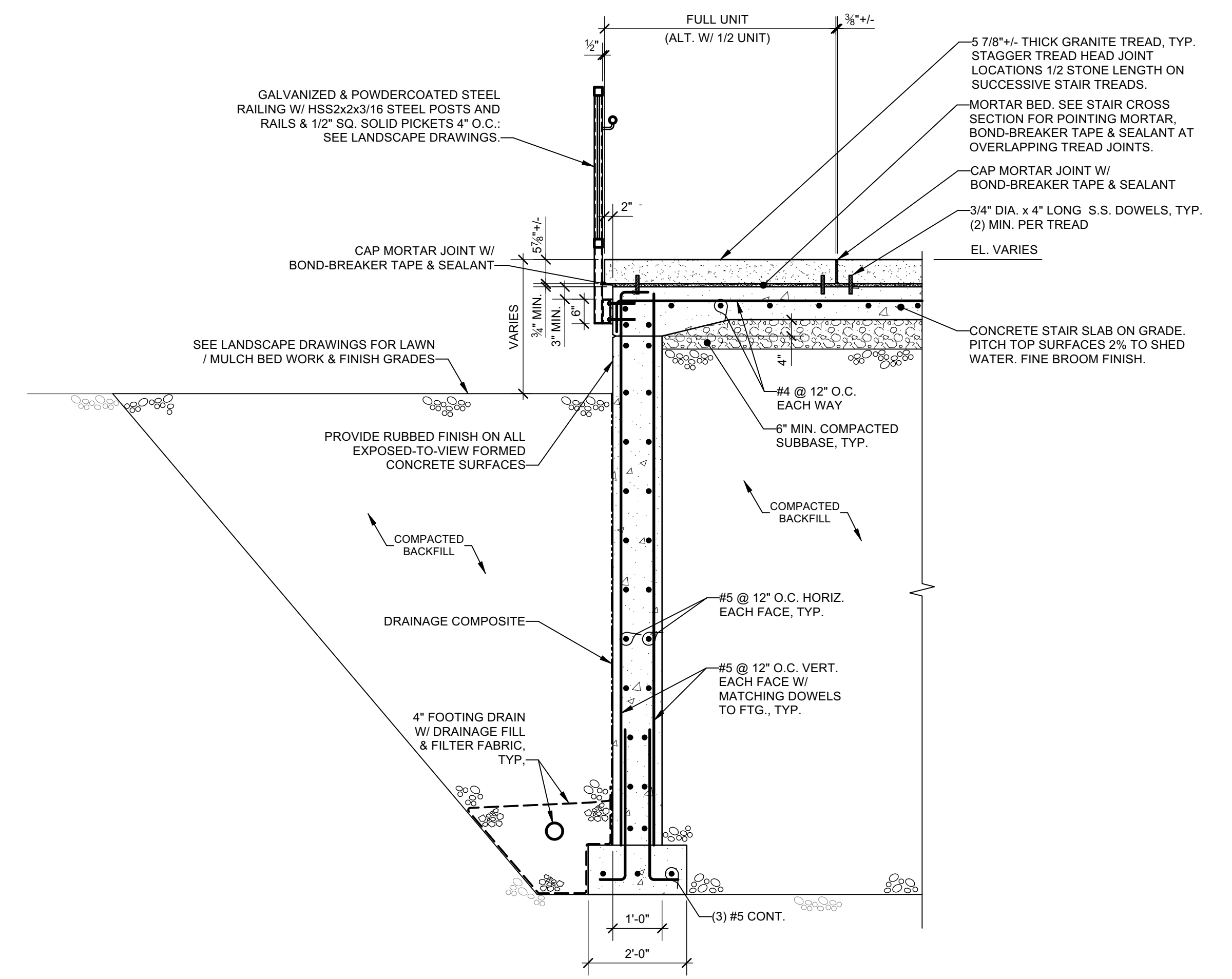




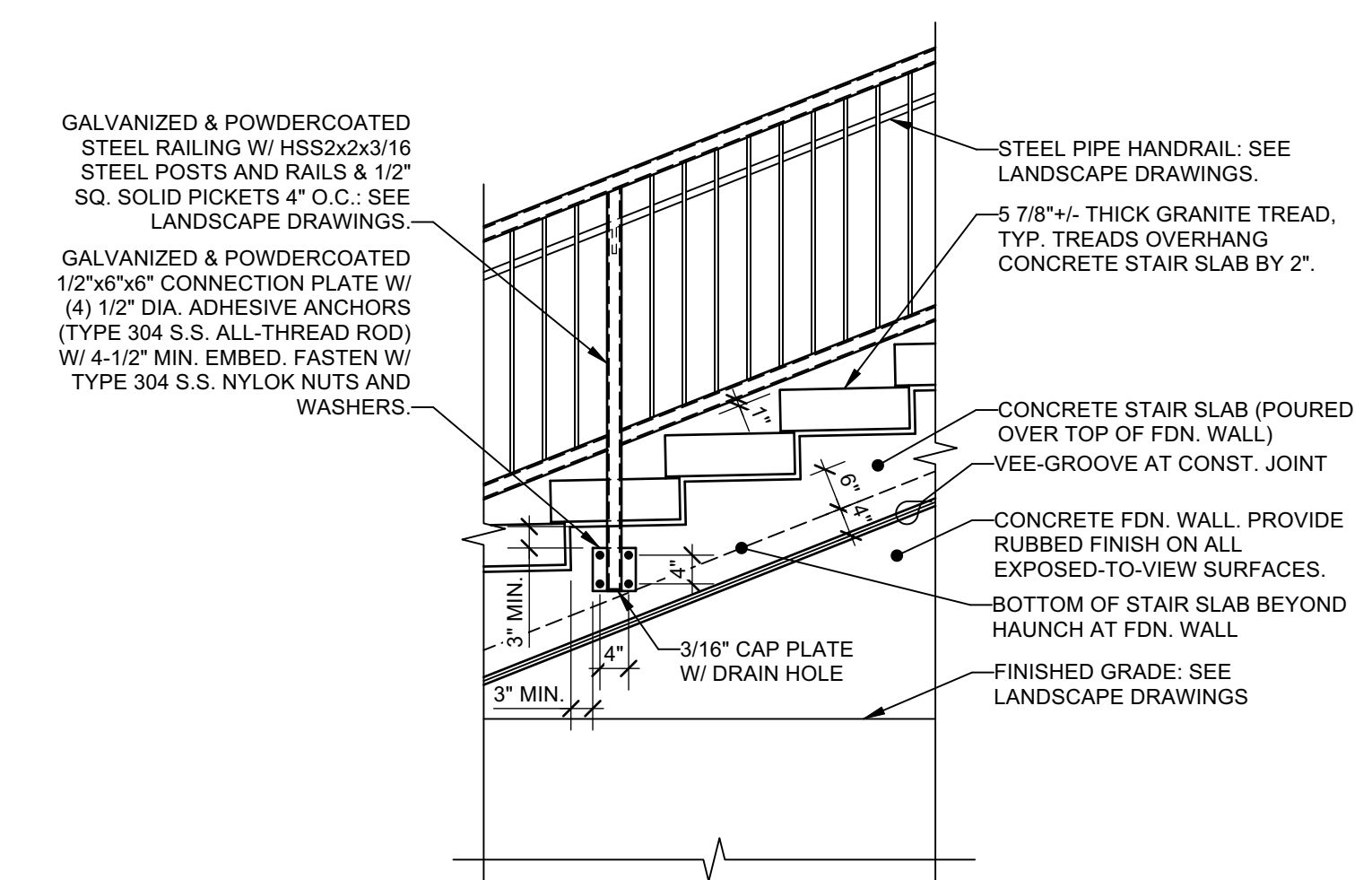
C1  
S3.06 WEST & EAST (UPPER) STAIR EDGE SECTION - EXISTING CONDITIONS  
Scale: 1/2" = 1'-0"



C3  
S3.06 WEST & EAST (UPPER) STAIR EDGE SECTION - DEMOLITION  
Scale: 1/2" = 1'-0"



C4  
S3.06 WEST & EAST (UPPER) STAIR EDGE SECTION - CONSTRUCTION  
Scale: 1/2" = 1'-0"



TYP. STAIR RAILING SUPPORT AT CONCRETE SIDE WALL DETAIL



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Date: APRIL 19, 2024

SECTION & DETAILS

Sheet Number:  
**S3.06**