

100% CONSTRUCTION DRAWING SET 11.1.24 DRAWING LIST

SITE SURVEY

S-0.0 EXISTING CONDITIONS SITE SURVEY PLAN

CIVIL DRAWINGS

C1.0 SITE NOTES
C2.0 EROSION CONTROL PLAN
C3.0 DRAINAGE PLAN
C4.0 UTILITY PLAN
C5.0 SITE DETAILS
C5.1 SITE DETAILS
C5.2 SITE DETAILS

GENERAL SHEETS

G002 PROJECT DATA AND DRAWING INDEX
G003 GENERAL NOTES & ABBREVIATIONS
G110 LIFE SAFETY LEGEND & PLANS

DEMOLITION

D001 DEMOLITION PLANS AND NOTES
D002 EXISTING PHOTOS

ARCHITECTURE

A001 SITE PLAN
A101 FLOOR PLAN / RCP
A102 ROOF PLAN
A201 EXTERIOR ELEVATIONS
A301 BUILDING SECTIONS
A302 BUILDING SECTIONS
A310 WALL SECTIONS
A311 WALL SECTIONS
A312 WALL SECTIONS
A402 INTERIOR ELEVATIONS
A410 ENLARGED PLANS
A420 SHADE STRUCTURE
A501 DETAILS
A601 SCHEDULES, WALL, DOOR & WINDOW TYPES
A901 3D REPRESENTATIONS

STRUCTURAL DRAWINGS

S001 GENERAL NOTES
S101 FOUNDATION PLAN
S102 ROOF FRAMING PLAN
S301 TYPICAL MASONRY DETAILS
S401 FOUNDATION SECTIONS
S601 ROOF SECTIONS

SKATE PARK DRAWINGS

SK-6.0 ROUGH GRADING + DRAINAGE PLAN

LANDSCAPE

L-1.0 SITE DEMOLITION & PREPARATION PLAN
L-2.0 SITE LAYOUT & MATERIALS PLAN
L-2.1 SITE LAYOUT ENLARGEMENT PLAN
L-2.2 SITE LAYOUT ENLARGEMENT PLAN
L-2.3 SITE LAYOUT ENLARGEMENT PLAN
L-2.4 LAWN STEP LAYOUT PLAN
L-3.0 SITE GRADING PLAN
L-3.1 SITE GRADING PLAN ENLARGEMENT
L-3.2 SITE GRADING PLAN ENLARGEMENT
L-4.0 TREE PLANTING PLAN
L-4.1 SHRUB & PERENNIAL PLANTING PLAN
L-5.0 SITE IRRIGATION DIAGRAM
L-6.0 SITE SECTIONS
L-6.1 SITE SECTIONS
L-6.2 CONCRETE DETAILS
L-6.3 SITE ELEVATIONS
L-7.0 BRIDGE DETAILS
L-8.0 SPLASH PAD LAYOUT
L-8.1 SPLASH PAD SPECIFICATIONS
L-8.2 SPLASH PAD SPECIFICATIONS

SKATE PARK DRAWINGS 08/16/24 [For Reference Only] SEPARATE CONTRACT

SK-1.0 TITLE SHEET
SK-2.0 SPECIFICATIONS
SK-2.1 SPECIFICATIONS
SK-3.0 3D PERSPECTIVE
SK-3.1 3D PERSPECTIVE
SK-4.0 INFORMATION PLAN
SK-5.0 LAYOUT PLAN
SK-6.0 GRADING + DRAINAGE PLAN
SK-7.0 STEEL PLAN
SK-8.0 SECTIONS
SK-8.1 SECTIONS
SK-8.2 SECTIONS
SK-8.3 SECTIONS
SK-9.0 CONSTRUCTION DETAILS
SK-9.1 CONSTRUCTION DETAILS

RUSSELL
DESIGN OFFICE

HANBURY



CLEMSON STANDARD NOTES FOR SITE PLANS

- 1. IF NECESSARY, SLOPES WHICH EXCEED EIGHT (8) VERTICAL FEET SHOULD BE STABILIZED WITH SYNTHETIC OR VEGETATIVE MATS, IN ADDITION TO HYDROSEEDING. IT MAY BE NECESSARY TO INSTALL TEMPORARY SLOPE DRAINS DURING CONSTRUCTION. TEMPORARY BERMS MAY BE NEEDED UNTIL THE SLOPE IS BROUGHT TO GRADE.
2. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN FOURTEEN (14) DAYS AFTER WORK HAS CEASED, EXCEPT AS STATED BELOW.
...
20. NO HAY BALES SHOULD BE USED TO SLOW OR STOP WATER AS THEY CAN BREAK-UP EASILY AND CLOG THE STORM DRAINS DOWN STREAM

UTILITY NOTES

- GENERAL:
1. ALL FILL MATERIAL IS TO BE IN PLACE AND COMPACTED BEFORE INSTALLATION OF PROPOSED UTILITIES.
2. CONTRACTOR SHALL NOTIFY THE UTILITY AUTHORITY'S INSPECTOR 72 HOURS BEFORE CONNECTING TO ANY EXISTING LINE.
...
WATER:
1. PVC DENOTES POLYVINYL CHLORIDE PIPE. PVC SHALL COMPLY WITH ASTM D 2241, RATED SDR 21 (CLASS 150). PIPE JOINTS SHALL BE INTEGRALLY MOLDED BELL ASTM D 3139, WITH FACTORY SUPPLIED ELASTOMERIC GASKETS AND LUBRICANT.
...
SANITARY SEWER:
1. GRAVITY PVC PIPES SHALL BE SCHEDULE 40 AND COMPLY WITH ASTM D3034 SPECIFICATIONS. FORCE PIPES SHALL BE PVC AND SHALL COMPLY WITH ASTM D 2241, RATED SDR 21 (CLASS 150). PIPE JOINTS SHALL BE INTEGRALLY MOLDED BELL ASTM D 3139, WITH FACTORY SUPPLIED ELASTOMERIC GASKETS AND LUBRICANT.
...
STORM SEWER:
1. ALL STORM PIPE ENTERING STRUCTURES SHALL BE GROUTED TO ASSURE CONNECTION AT STRUCTURE IS WATER TIGHT.
...
9. FRAME AND GRATE SPECIFICATIONS ARE AS FOLLOWS:
CURB INLET (CI): TINDALL CAST IRON HOODED FRAME AND GRATE I23-C00 OR APPROVED ALTERNATE.
...
18" PIPE: 2'X3'

LANDSCAPE NOTES

- GRASSING SPECIFICATION
TEMPORARY VEGETATION
APRIL 1 TO AUGUST 31 SEED: 50 LBS/ACRE BROWNTOP MILLET
AUGUST 1 - APRIL 30 SEED: 110 LBS/ACRE RYE GRAIN
SEPTEMBER 1 - APRIL 30 SEED: 15 LBS/ACRE RYE GRAIN - GC
FERTILIZATION: 700 LBS/ACRE 10-10-10 EQUIVALENT (POOR SOILS ONLY)
LIME: NOT REQUIRED
MULCH: HYDRO-MULCH OR STRAW (OPTIONAL)
1. HYDROSEED ALL SLOPES AND SEED REMAINING AREAS BY CONVENTIONAL METHODS FOR COST EFFECTIVENESS.
2. SEED BED PREPARATION: STANDARD (RIPPING, DISCING, DRAGGING, ETC.)
PERMANENT VEGETATION
REFER TO LANDSCAPE ARCHITECTURAL PLANS FOR PERMANENT STABILIZATION.

SITE DATA

- 1. TMS # 4054-19-71-0690
2. PROPERTY SIZE: 4.5 ACRES
3. TOTAL DISTURBED AREA: 2.3 ACRES
4. THE SITE IS NOT LOCATED WITHIN A SPECIAL FLOOD HAZARD ZONE PER F.I.R.M. COMMUNITY PANEL NUMBER 45077C0391E WITH AN EFFECTIVE DATE 12/21/2017.
5. EXISTING INFORMATION WAS OBTAINED FROM A TOPOGRAPHIC SURVEY DATED 02/22/2024 AND PREPARED BY: RIDGEWATER ENGINEERING AND SURVEYING, LLC
P.O. BOX 806
ANDERSON, SC 29622
864-228-0980
6. THE BUILDING FOOTPRINT WAS OBTAINED FROM AN ARCHITECTURAL FLOOR PLAN DATED 09/26/2024.

CONSTRUCTION SEQUENCE:

- 1. RECEIVE NPDES PERMIT FROM SCDES.
2. NOTIFY THE CITY OF CLEMSON AT LEAST 48 HOURS PRIOR TO ANY LAND DISTURBING ACTIVITY.
3. SCHEDULE AND ATTEND A PRE-CONSTRUCTION MEETING.
4. DETERMINE AND MARK LIMITS OF DISTURBANCE.
5. CLEAR AREA AS REQUIRED TO INSTALL INITIAL EROSION CONTROL MEASURES (SHOWN ON C2.0).
6. INSTALL INITIAL EROSION CONTROL MEASURES (SHOWN ON C2.0).
7. CLEAR LIMITS OF DISTURBANCE.
8. BEGIN MASS GRADING
9. INSTALL INLET PROTECTION AS INLETS ARE CONSTRUCTED.
10. CONSTRUCT BUILDINGS AND PAVEMENT.
11. PERMANENT GRASS SHALL BE INSTALLED FOR ALL AREAS AT THE FINAL GRADE AND IN SEASON. FERTILIZE, WATER, AND RESEED AS REQUIRED TO ESTABLISH AND MAINTAIN A VIGOROUS STAND OF GRASS
12. AFTER COMPLETION OF CONSTRUCTION AND THE SITE IS STABILIZED:
12.1. REMOVE ALL ACCUMULATED SEDIMENT FROM SEDIMENT TRAPPING MEASURES AND SPREAD EVENLY ACROSS SITE.
12.2. REMOVE TEMPORARY EROSION CONTROL MEASURES (SKIMMER, POROUS, BAFFLES AND SILT FENCE), SMOOTH AREA AND APPLY APPROPRIATE GRASS AND LANDSCAPE BUFFERS.

NOTES:

- 1. DISTURBED AREAS AND EROSION CONTROL MEASURES WILL BE MAINTAINED THROUGHOUT THE LIFE OF THE PROJECT.
2. INSPECTIONS TO BE EVERY 7 CALENDAR DAYS AND WITHIN 24 HOURS AFTER EACH RAINFALL EVENT THAT PRODUCES 1/2" OR MORE PRECIPITATION.

SITE NOTES

- 1. EXISTING SITE CONDITIONS SHALL BE VERIFIED PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL REPORT ANY DIFFERENCES FROM THE PLAN THAT WILL AFFECT CONSTRUCTION IN WRITING TO THE ENGINEER AND AWAIT FURTHER INSTRUCTIONS.
2. BEFORE COMMENCEMENT OF WORK, THE CONTRACTOR SHALL REVIEW ALL PLANS AND SPECIFICATIONS AND THE JOB SITE. THE CONTRACTOR SHALL NOTIFY THE OWNER AND THE ENGINEER WHO PREPARED THE PLANS OF ANY DISCREPANCIES THAT MAY REQUIRE MODIFICATIONS TO THESE PLANS OR OF ANY FIELD CONFLICTS.
3. ALL WORK IN THE RIGHT OF WAY SHALL BE VERIFIED WITH THE APPROVED ENCROACHMENT PERMIT PRIOR TO COMMENCING WORK.
4. ALL PERMITS RELATIVE TO THE PROJECT MUST BE OBTAINED PRIOR TO CONSTRUCTION. ALL CONSTRUCTION TO BE IN ACCORDANCE WITH PERMITS ISSUED AND APPLICABLE STATE, COUNTY AND LOCAL CODES.
5. ALL DIMENSIONS SHOWN ON THE DRAWINGS ARE MEASURED FROM OUTSIDE FACE OF BUILDING WALL, FACE OF CURB LINE, OR PROPERTY LINE UNLESS OTHERWISE NOTED. CURB AND GUTTER IS SHOWN AS THREE (3) LINES (OUTSIDE EDGE OF GUTTER, FACE OF CURB, AND BACK OF CURB).
6. R DENOTES FACE OF CURB OR EDGE OF PAVEMENT RADIUS. ALL RADI ARE 5 FEET UNLESS NOTED OTHERWISE.
7. AN ELECTRONIC FILE OF THE SITE PLAN SHALL BE MADE AVAILABLE FOR STAKING PURPOSES.
8. ALL REFERENCE TO STATE STANDARDS AND SPECIFICATIONS ARE MADE FROM THE SOUTH CAROLINA HIGHWAY DEPARTMENT'S STANDARD SPECIFICATION, LATEST EDITION.
9. IF ANY CONFLICTS BETWEEN THE NOTES, DETAILS, SPECIFICATIONS, AND DRAWINGS OCCUR THEN BY RULE THE STRICTER SHALL GOVERN.
10. THE CONTRACTOR SHALL MAINTAIN AN "AS BUILT" SET OF DRAWINGS TO RECORD THE EXACT LOCATION OF ALL PIPING PRIOR TO CONCEALMENT. DRAWINGS SHALL BE GIVEN TO THE OWNER UPON COMPLETION OF THE PROJECT.
11. "STOP" SIGNS, AND OTHER TRAFFIC REGULATION SIGNAGE, SHALL MEET THE CRITERIA OF THE MUTCD AND STATE DEPARTMENT OF TRANSPORTATION STANDARDS.
12. ALL WORK AND MATERIALS SHALL COMPLY WITH ALL CITY/COUNTY REGULATIONS AND CODES AND OSHA STANDARDS.
13. THE CONTRACTOR IS EXCLUSIVELY RESPONSIBLE FOR THE CONDITION OF THE SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY THROUGHOUT THE TERM OF THE PROJECT CONSTRUCTION.
14. THE ENGINEER'S REVIEW OF THE CONTRACTOR'S WORK PRODUCT AND PERFORMANCE WILL NOT INCLUDE REVIEW OF THE CONTRACTOR'S SAFETY PROGRAMS. SUCH REVIEWS ARE TO BE BY OSHA INSPECTORS AND THE OWNER'S REPRESENTATIVE.
15. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND MAINTAINING ALL NECESSARY TRAFFIC CONTROL DEVICES DURING CONSTRUCTION UNDER NO CIRCUMSTANCES SHALL EQUIPMENT BE LOADED OR OFF-LOADED ON AN OPEN ROADWAY. IF SUCH ACTIVITY IS REQUIRED THE CONTRACTOR SHALL COORDINATE SHUTTING DOWN THE ROAD WITH THE APPROPRIATE DOT AND UTILIZE APPROPRIATE TRAFFIC CONTROL WARNING DEVICES.
16. THE GENERAL CONTRACTOR SHALL CONTACT ALL OWNERS OF EASEMENTS, UTILITIES AND RIGHT-OF-WAYS, PUBLIC OR PRIVATE, PRIOR TO WORKING IN THESE AREAS. ACCESS SHALL BE LIMITED UNTIL PERMISSION IS GRANTED.
17. THE GENERAL CONTRACTOR SHALL KEEP THE AREA OUTSIDE THE "CONSTRUCTION LIMITS" BROOM CLEAN AT ALL TIMES AND REMOVE ALL TRASH AND DEBRIS FROM THE SITE.

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11/01/24

CLEMSON PARK
114 CLEMSON PARK RD
CLEMSON, SC 29631

REVISIONS: NO. DATE DESCRIPTION
0 11/01/2024 100% SET

Project Manager: JAC
Project Engineer: TAH
Drawn By: MPW
Sheet Title: SITE NOTES
Sheet Number: C1.0
Project Number: 240385
Date: 11/01/2024



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Two Blue Stallions, LLC
PB 24 Page 972
DB 2028 Page 346
TMS# 4054-20-72-7380

Clemson United Methodist Church
PB 599 Page 270
DB 1727 Page 47
TMS# 4054-19-71-1938

John Marion Evans
DB 2598 Page 250
TMS# 4054-20-71-8357

Lot 16
Albert Campbell III
PB 505 Page 1
DB 2158 Page 318
TMS# 4054-19-61-7506

Lot 22
Marek W. Urban Trustee
PB 505 Page 1
DB 1721 Page 143
TMS# 4054-19-71-2441

Lot 17
Pamela Baker
PB 505 Page 1
DB 1765 Page 31
TMS# 4054-19-61-7384

Lot 21
Mark R. Peabody Trustee
PB 505 Page 1
DB 2289 Page 74
TMS# 4054-19-71-0350



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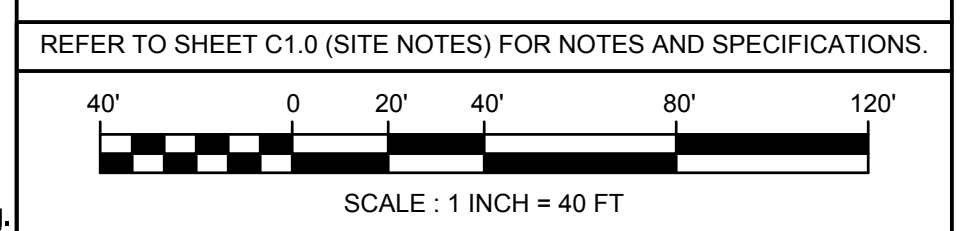
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LEGEND

- SEDIMENT TUBE REFER TO C5.0 — ST —
- SILT FENCE REFER TO C5.0 — SF —
- LIMITS OF DISTURBANCE — LD —
- TEMPORARY INLET PROTECTION REFER TO C5.0 ⊙
- CONCRETE WASHOUT AREA REFER TO C5.0 ⊠
- STORM PIPE REFER TO C3.0 - - -

- KEYNOTES:**
- ① INSTALL CONSTRUCTION ENTRANCE. REFER TO C5.0.
 - ② INSTALL TEMPORARY STOCKPILE AREA. REFER TO C5.0.
 - ③ INSTALL RIPRAP APRON. REFER TO C5.0.

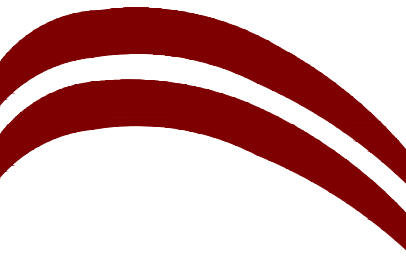
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Project Engineer: TAH
Drawn By: MPW

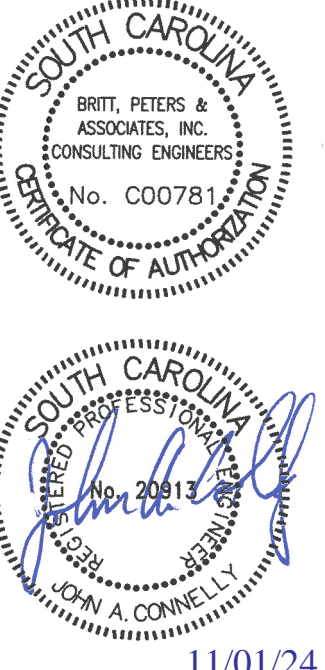
Sheet Title:
EROSION CONTROL PLAN

Sheet Number: C2.0
Project Number: 240385
Date: 11/01/2024



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Project Engineer: TAH
Drawn By: MPW

DRAINAGE PLAN

Sheet Number: 240385
C3.0
Date: 11/01/2024

Two Blue Stallions, LLC
PB 24 Page 972
DB 2028 Page 346
TMS# 4054-20-72-7380

Clemson United Methodist Church
PB 599 Page 270
DB 1727 Page 47
TMS# 4054-19-71-1938

John Marion Evans
DB 2598 Page 250
TMS# 4054-20-71-8357

Lot 16
Albert Campbell III
PB 505 Page 1
DB 2158 Page 318
TMS# 4054-19-61-7506

Lot 22
Marek W. Urban Trustee
PB 505 Page 1
DB 1721 Page 143
TMS# 4054-19-71-2441

Lot 17
Pamela Baker
PB 505 Page 1
DB 1765 Page 31
TMS# 4054-19-61-7384

Lot 21
Mark R. Peabody Trustee
PB 505 Page 1
DB 2289 Page 74
TMS# 4054-19-71-0350



PROPOSED STORM DRAINAGE TABLE

LABEL	TYPE	RIM	INV IN	INV OUT
1	GI	796.5	793.4	793.3
2	GI	799.6	793.8	793.7
3	OCS	804.7	794.0	794.0
4	AD	805.2	795.0	794.92 (24) 796.42 (19)
5	GI	805.5	797.0	796.9
6	GI	806.5	-	800.0
7	AD	805.0	795.0	794.92 (24) 796.42 (19)
8	AD	805.0	796.4	796.3
9	AD	805.0	-	797.2
10	AD	805.0	-	794.92 (24) 796.42 (19)
11	AD	799.5	-	795.6
12	GI	798.5	794.1	794.0
13	GI	799.5	-	794.5
14	FE (2X)	-	813.0	-
15	CI	815.7	-	813.5
16	FE	-	-	814.0

PROPOSED STORM PIPE TABLE

LABEL	ORIG-DEST.	TYPE	SLOPE	SIZE	LENGTH
P1	CB2-CB1	RCP/HDPE	0.5%	15"	57'
P2	CB3-CB2	RCP/HDPE	1.4%	15"	14'
P3	CB5-CB4	RCP/HDPE	6.6%	15"	29'
P4	CB6-CB5	RCP/HDPE	7.0%	15"	43'
P5	CB8-CB7	PVC	4.8%	12"	27'
P6	CB9-CB8	PVC	5.0%	12"	16'
P7	CB11-ADS	PVC	1.4%	8"	25'
P8	CB12-CB1	RCP/HDPE	1.2%	15"	52'
P9	CB13-CB12	RCP/HDPE	1.0%	15"	33'
P10	CB15-CB14	RCP/HDPE	1.0%	15"	48'
P11	CB16-CB14	RCP/HDPE	1.0%	15"	32'

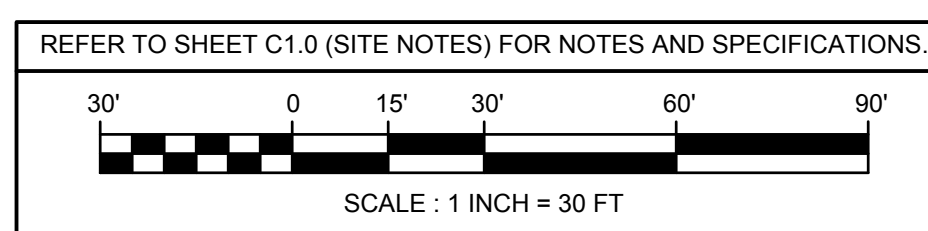
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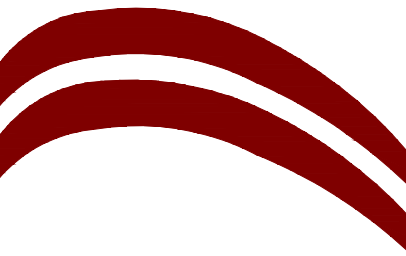
- STORM PIPE REFER TO C1.0
- 6" PVC UNDERDRAIN PIPE REFER TO C1.0
- RIP RAP APRON REFER TO C5.0
- PROPOSED CONTOURS REFER TO LANDSCAPE ARCHITECTURE PLANS FOR MORE INFORMATION.

- NOTES:
- FE DENOTES FLARED END SECTION. REFER TO C1.0.
 - GI DENOTES GRATE INLET. REFER TO C1.0
 - JIS DENOTES JUNCTION BOX. REFER TO C1.0
 - OCS DENOTES OUTLET CONTROL STRUCTURE. REFER TO C5.1.
 - AD DENOTES AREA DRAIN. REFER TO C1.0
 - RCP DENOTES A REINFORCED CONCRETE PIPE. REFER TO C1.0.
 - HDPE DENOTES HIGH DENSITY POLYETHYLENE PIPE. REFER TO C1.0

DENOTES FLEXSTORM INSERT SHALL BE INSTALLED IN STRUCTURE FOR WATER QUALITY.

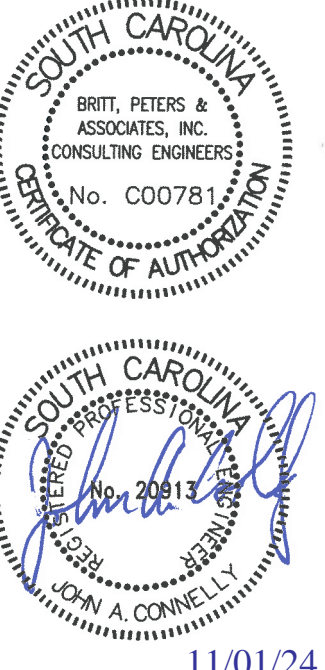
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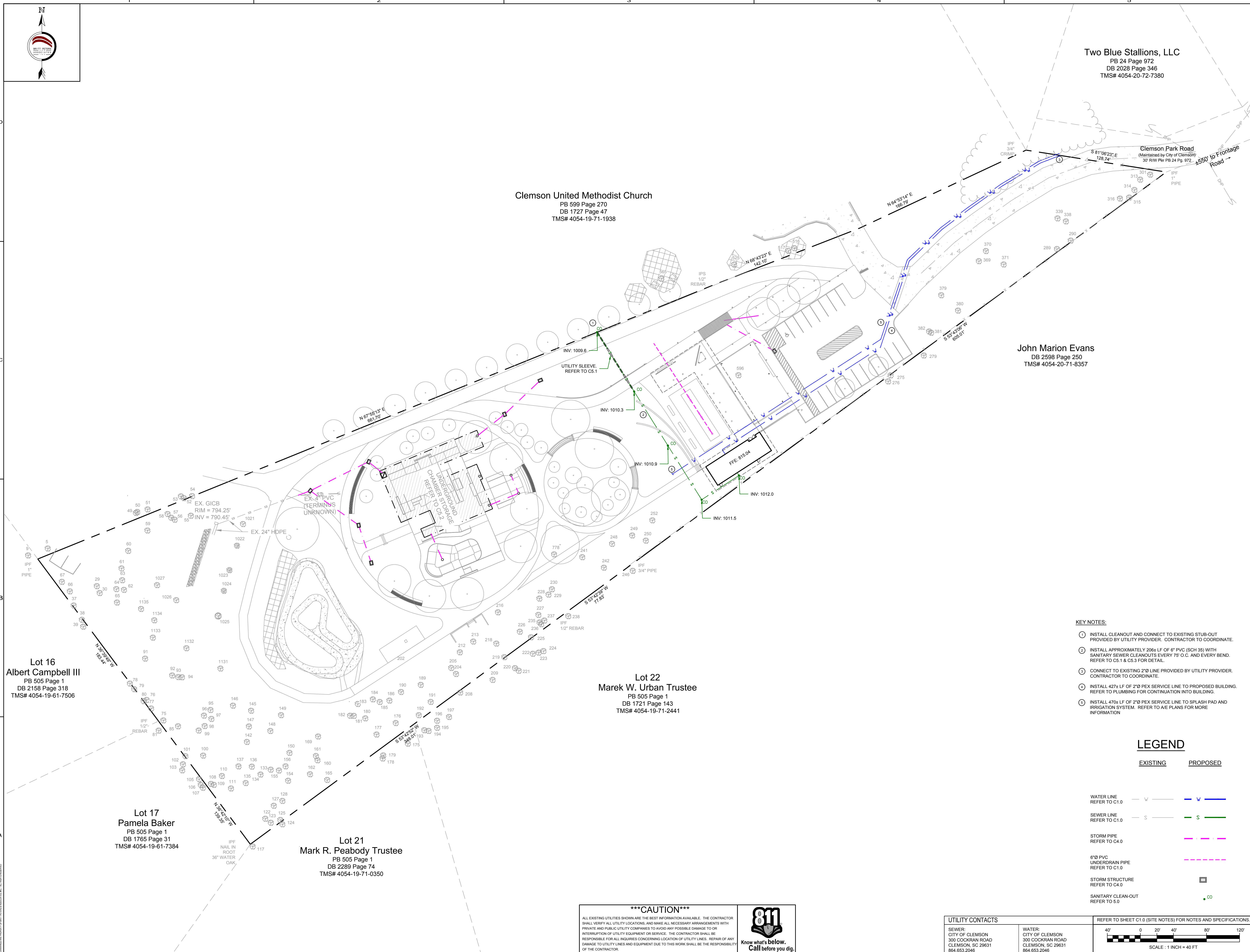
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SEALS



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Lot 16
Albert Campbell III
 PB 505 Page 1
 DB 2158 Page 318
 TMS# 4054-19-61-7506

Lot 17
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 PB 505 Page 1
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Mark R. Peabody Trustee
 PB 505 Page 1
 DB 2289 Page 74
 TMS# 4054-19-71-0350

Lot 22
Marek W. Urban Trustee
 PB 505 Page 1
 DB 1721 Page 143
 TMS# 4054-19-71-2441

Clemson United Methodist Church
 PB 599 Page 270
 DB 1727 Page 47
 TMS# 4054-19-71-1938

Two Blue Stallions, LLC
 PB 24 Page 972
 DB 2028 Page 346
 TMS# 4054-20-72-7380

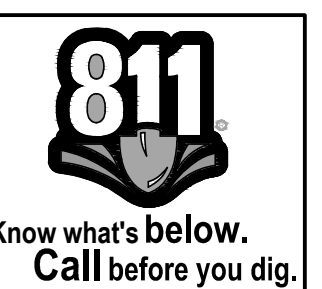
John Marion Evans
 DB 2598 Page 250
 TMS# 4054-20-71-8357

- KEY NOTES:**
- INSTALL CLEANOUT AND CONNECT TO EXISTING STUB-OUT PROVIDED BY UTILITY PROVIDER. CONTRACTOR TO COORDINATE.
 - INSTALL APPROXIMATELY 208± LF OF 6" PVC (SCH 35) WITH SANITARY SEWER CLEANOUTS EVERY 75' O.C. AND EVERY BEND. REFER TO C5.1 & C5.3 FOR DETAIL.
 - CONNECT TO EXISTING 2" Ø LINE PROVIDED BY UTILITY PROVIDER. CONTRACTOR TO COORDINATE.
 - INSTALL 427± LF OF 2" Ø PEX SERVICE LINE TO PROPOSED BUILDING. REFER TO PLUMBING FOR CONTINUATION INTO BUILDING.
 - INSTALL 470± LF OF 2" Ø PEX SERVICE LINE TO SPLASH PAD AND IRRIGATION SYSTEM. REFER TO A/E PLANS FOR MORE INFORMATION.

LEGEND

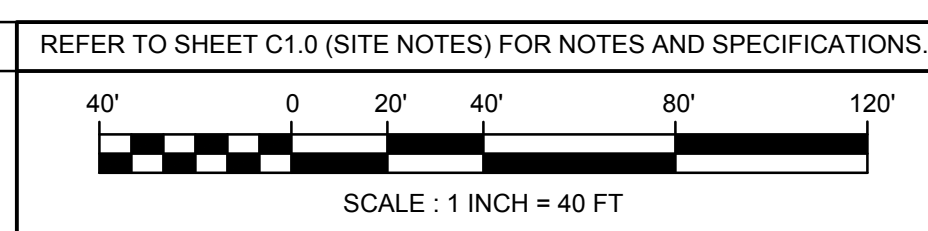
	EXISTING	PROPOSED
WATER LINE REFER TO C1.0	— W —	— W —
SEWER LINE REFER TO C1.0	— S —	— S —
STORM PIPE REFER TO C4.0	— —	— —
6" Ø PVC UNDERDRAIN PIPE REFER TO C1.0	— —	— —
STORM STRUCTURE REFER TO C4.0	■	■
SANITARY CLEAN-OUT REFER TO S.0	CO	CO

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UTILITY CONTACTS

SEWER: CITY OF CLEMSON 300 COCHRAN ROAD CLEMSON, SC 29631 864.653.2046	WATER: CITY OF CLEMSON 300 COCHRAN ROAD CLEMSON, SC 29631 864.653.2046
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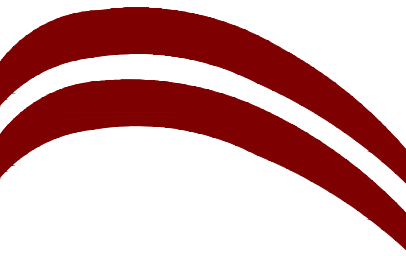
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NO.	DATE	DESCRIPTION
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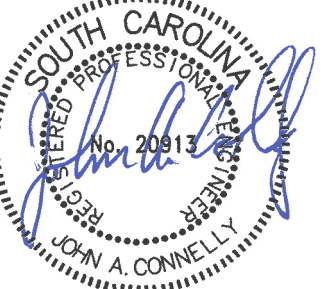
Project Manager: JAC
 Project Engineer: TAH
 Drawn By: MPW

Sheet Title:
UTILITY PLAN

Sheet Number: **C4.0**
 Project Number: 240385
 Date: 11/01/2024



SEALS



11/01/24

**CLEMSON
PARK**

114 CLEMSON PARK RD
CLEMSON, SC 29631

REVISIONS:	NO.	DATE	DESCRIPTION
	0	11/01/2024	100% SET

Project Manager: JAC
Project Engineer: TAH
Drawn By: MPW

Sheet Title:

**SITE
DETAILS**

Sheet Number: C5.0	Project Number: 240385
Date: 11/01/2024	

STRAW BALE BARRIER CONCRETE WASHOUT

PLAN
TYPE "ABOVE GRADE"
WITH STRAW BALES

SECTION B-B

NOTES:

- ACTUAL LAYOUT DETERMINED IN FIELD.
- INSTALL CONCRETE WASHOUT SIGN (24"x24" MINIMUM) WITHIN 30' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
- TEMPORARY WASHOUT AREA MUST BE AT LEAST 50' FROM A STORM DRAIN, CREEK BANK OR PERIMETER CONTROL.
- CLEAN OUT CONCRETE WASHOUT AREA WHEN 50% FULL. INSPECT EVERY 7 CALENDAR DAYS.
- THE KEY TO FUNCTIONAL CONCRETE WASHOUTS IS WEEKLY INSPECTIONS, ROUTINE MAINTENANCE, AND REGULAR CLEAN OUT.
- SILT FENCE SHALL BE INSTALLED AROUND PERIMETER OF CONCRETE WASHOUT AREA EXCEPT FOR THE SIDE UTILIZED FOR ACCESSING THE WASHOUT.
- A ROCK CONSTRUCTION ENTRANCE MAY BE NECESSARY ALONG ONE SIDE OF THE WASHOUT TO PROVIDE VEHICLE ACCESS.

CONCRETE WASHOUT SIGN DETAIL

LETTERS A MINIMUM OF 5" IN HEIGHT

South Carolina Department of Health and Environmental Control
CONCRETE WASHOUT
STANDARD DRAWING NO. SC-07 Page 1 of 1
NOT TO SCALE FEBRUARY 2014 DATE

SILT FENCE - POST REQUIREMENTS

- SILT FENCE POSTS MUST BE 48-INCH LONG STEEL POSTS THAT MEET, AT A MINIMUM, THE FOLLOWING PHYSICAL CHARACTERISTICS:
- COMPOSED OF A HIGH STRENGTH STEEL WITH A MINIMUM YIELD STRENGTH OF 50,000 PSI.
- INCLUDE A STANDARD "T" SECTION WITH A NOMINAL FACE WIDTH OF 1.38-INCHES AND A NOMINAL "T" LENGTH OF 1.48-INCHES.
- WEIGH 1.25 POUNDS PER FOOT (± 8%)
- POSTS SHALL BE EQUIPPED WITH PROJECTIONS TO AID IN FASTENING OF FILTER FABRIC.
- STEEL POSTS MAY NEED TO HAVE A METAL SOIL STABILIZATION PLATE WELDED NEAR THE BOTTOM WHEN INSTALLED ALONG STEEP SLOPES OR INSTALLED IN LOOSE SOILS. THE PLATE SHOULD HAVE A MINIMUM CROSS SECTION OF 17-SQUARE INCHES AND BE COMPOSED OF 1/2 GAUGE STEEL AT A MINIMUM. THE METAL SOIL STABILIZATION PLATE SHOULD BE COMPLETELY BURIED.
- INSTALL POSTS TO A MINIMUM OF 24-INCHES. A MINIMUM HEIGHT OF 1- TO 2- INCHES ABOVE THE FABRIC SHALL BE MAINTAINED, AND A MAXIMUM HEIGHT OF 3 FEET SHALL BE MAINTAINED ABOVE THE GROUND.
- POST SPACING SHALL BE AT A MAXIMUM OF 6- FEET ON CENTER.

SILT FENCE - FABRIC REQUIREMENTS

- SILT FENCE MUST BE COMPOSED OF WOVEN GEOTEXTILE FILTER FABRIC THAT CONSISTS OF THE FOLLOWING REQUIREMENTS:
- COMPOSED OF FIBERS CONSISTING OF LONG CHAIN SYNTHETIC POLYMERS OF AT LEAST 85% BY WEIGHT OF POLYOLEFINS, POLYESTERS, OR POLYAMIDES THAT ARE FORMED INTO A NETWORK SUCH THAT THE FILAMENTS OR YARNS RETAIN DIMENSIONAL STABILITY RELATIVE TO EACH OTHER.
- FREE OF ANY TREATMENT OR COATING WHICH MIGHT ADVERSELY ALTER ITS PHYSICAL PROPERTIES AFTER INSTALLATION.
- FREE OF ANY DEFECTS OR FLAWS THAT SIGNIFICANTLY AFFECT ITS PHYSICAL AND/OR FILTERING PROPERTIES; AND,
- HAVE A MINIMUM WIDTH OF 36-INCHES
- USE ONLY FABRIC APPEARING ON SC DOT'S QUALIFIED PRODUCTS LISTING (QPL), APPROVAL SHEET #34, MEETING THE REQUIREMENTS OF THE MOST CURRENT EDITION OF THE SC DOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.
- 12-INCHES OF THE FABRIC SHOULD BE PLACED WITHIN EXCAVATED TRENCH AND TOED IN WHEN THE TRENCH IS BACKFILLED.
- FILTER FABRIC SHALL BE PURCHASED IN CONTINUOUS ROLLS AND CUT TO THE LENGTH OF THE BARRIER TO AVOID JOINTS.
- FILTER FABRIC SHALL BE INSTALLED AT A MINIMUM OF 24-INCHES ABOVE THE GROUND.

SILT FENCE - INSPECTION & MAINTENANCE

- THE KEY TO FUNCTIONAL SILT FENCE IS WEEKLY INSPECTIONS, ROUTINE MAINTENANCE, AND REGULAR SEDIMENT REMOVAL.
- REGULAR INSPECTIONS OF SILT FENCE SHALL BE CONDUCTED ONCE EVERY CALENDAR WEEK AND, AS RECOMMENDED, WITHIN 24-HOURS AFTER EACH RAINFALL EVEN THAT PRODUCES 1/2-INCH OR MORE OF PRECIPITATION.
- ATTENTION TO SEDIMENT ACCUMULATIONS ALONG THE SILT FENCE IS EXTREMELY IMPORTANT. ACCUMULATED SEDIMENT SHOULD BE CONTINUALLY MONITORED AND REMOVED WHEN NECESSARY.
- REMOVE ACCUMULATED SEDIMENT WHEN IT REACHES 1/3 THE HEIGHT OF THE SILT FENCE.
- REMOVED SEDIMENT SHALL BE PLACED IN STOCKPILE STORAGE AREAS OR SPREAD THINLY ACROSS DISTURBED AREA. STABILIZE THE REMOVED SEDIMENT AFTER IT IS RELOCATED.
- CHECK FOR AREAS WHERE STORMWATER RUNOFF HAS ERODED A CHANNEL BENEATH THE SILT FENCE, OR WHERE THE FENCE HAS SAGGED OR COLLAPSED DUE TO RUNOFF OVERTOPPING THE SILT FENCE. INSTALL CHECKS/TIE-BACKS AND/OR REINSTALL SILT FENCE, AS NECESSARY.
- CHECK FOR TEARS WITHIN THE SILT FENCE, AREAS WHERE SILT FENCE HAS BEGUN TO DECOMPOSE, AND FOR ANY OTHER CIRCUMSTANCE THAT MAY RENDER THE SILT FENCE INEFFECTIVE. REMOVE DAMAGED SILT FENCE AND REINSTALL NEW SILT FENCE IMMEDIATELY.
- SILT FENCE SHOULD BE REMOVED WITHIN 30 DAYS AFTER FINAL STABILIZATION IS ACHIEVED AND ONCE IT IS REMOVED, THE RESULTING DISTURBED AREA SHALL BE PERMANENTLY STABILIZED.

SILT FENCE INSTALLATION

FABRIC ATTACHMENT DETAIL

FLAT-BOTTOM TRENCH DETAIL

V-SHAPED TRENCH DETAIL

SILT FENCE - GENERAL NOTES

- DO NOT PLACE SILT FENCE ACROSS CHANNELS OR IN OTHER AREAS SUBJECT TO CONCENTRATED FLOWS. SILT FENCE SHOULD NOT BE USED AS A VELOCITY CONTROL BMP. CONCENTRATED FLOWS ARE ANY FLOWS GREATER THAN 0.5 CFS.
- MAXIMUM SHEET OR OVERLAND FLOW PATH LENGTH TO THE SILT FENCE SHALL BE 100- FEET.
- MAXIMUM SLOPE STEEPNESS (NORMAL PERPENDICULAR) TO THE FENCE LINE SHALL BE 2:1.
- SILT FENCE JOINTS, WHEN NECESSARY, SHALL BE COMPLETED BY ONE OF THE FOLLOWING OPTIONS:
- WRAP EACH FABRIC TOGETHER AT A SUPPORT POST WITH BOTH ENDS FASTENED TO THE POST, WITH A 1-FOOT MINIMUM OVERLAP.
- OVERLAP SILT FENCE BY INSTALLING 3- FEET PASSED THE SUPPORT POST TO WHICH THE NEW SILT FENCE ROLL IS ATTACHED. ATTACH OLD ROLL TO NEW ROLL WITH HEAVY-DUTY PLASTIC TIES, OR,
- OVERLAP ENTIRE WIDTH OF EACH SILT FENCE ROLL FROM ONE SUPPORT POST TO THE NEXT SUPPORT POST.
- ATTACH FILTER FABRIC TO THE STEEL POSTS USING HEAVY-DUTY PLASTIC TIES THAT ARE EVENLY SPACED WITHIN THE TOP 9-INCHES OF THE FABRIC.
- INSTALL THE SILT FENCE PERPENDICULAR TO THE DIRECTION OF THE STORMWATER FLOW AND PLACE THE SILT FENCE THE PROPER DISTANCE FROM THE TOE OF STEEP SLOPES TO PROVIDE SEDIMENT STORAGE AND ACCESS FOR MAINTENANCE AND CLEANOUT.
- INSTALL SILT FENCE CHECKS (TIE-BACKS) EVERY 50-100 FEET, DEPENDENT ON SLOPE, ALONG SILT FENCE THAT IS INSTALLED WITH SLOPE AND WHERE CONCENTRATED FLOWS ARE EXPECTED OR ARE DOCUMENTED ALONG THE PROPOSED/INSTALLED SILT FENCE.

South Carolina Department of Health and Environmental Control
SILT FENCE
STANDARD DRAWING NO. SC-03 Page 2 of 2
GENERAL NOTES FEBRUARY 2014 DATE

POST INSTALLATION DETAIL

1.25 LB./F. STEEL POSTS

ATTACH FILTER FABRIC TO POSTS WITH HEAVY DUTY PLASTIC TIES ALONG TOP 8" OF FABRIC

FOLD FABRIC TO OVERLAP 1' AND SECURE TO POSTS WITH HEAVY DUTY PLASTIC TIES

BURY FABRIC (SEE DETAIL)

FILTER FABRIC INSTALLATION DETAIL

South Carolina Department of Health and Environmental Control
**TYPE A
FILTER FABRIC INLET PROTECTION**
STANDARD DRAWING NO. SC-07 Page 1 of 2
NOT TO SCALE FEBRUARY 2014 DATE

CONSTRUCTION ENTRANCE - GENERAL NOTES

- STABILIZED CONSTRUCTION ENTRANCES SHOULD BE USED AT ALL POINTS WHERE TRAFFIC WILL EGRESS/INGRESS A CONSTRUCTION SITE ONTO A PUBLIC ROAD OR ANY IMPERVIOUS SURFACES, SUCH AS PARKING LOTS.
- INSTALL A NON-WOVEN GEOTEXTILE FABRIC PRIOR TO PLACING ANY STONE.
- INSTALL A CULVERT PIPE ACROSS THE ENTRANCE WHEN NEEDED TO PROVIDE POSITIVE DRAINAGE.
- THE ENTRANCE SHALL CONSIST OF 2-INCH TO 3-INCH D50 STONE PLACED AT A MINIMUM DEPTH OF 6-INCHES.
- MINIMUM DIMENSIONS OF THE ENTRANCE SHALL BE 24- FEET WIDE BY 100- FEET LONG, AND MAY BE MODIFIED AS NECESSARY TO ACCOMMODATE SITE CONSTRAINTS.
- THE EDGES OF THE ENTRANCE SHALL BE TAPERED OUT TOWARDS THE ROAD TO PREVENT TRACKING AT THE EDGE OF THE ENTRANCE.
- DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE STONE PAD TO A SEDIMENT TRAP OR BASIN OR OTHER SEDIMENT TRAPPING STRUCTURE.
- LIMESTONE MAY NOT BE USED FOR THE STONE PAD.

CONSTR. ENTRANCE - INSPECTION & MAINTENANCE

- THE KEY TO FUNCTIONAL CONSTRUCTION ENTRANCES IS WEEKLY INSPECTIONS, ROUTINE MAINTENANCE, AND REGULAR SEDIMENT REMOVAL.
- REGULAR INSPECTIONS OF CONSTRUCTION ENTRANCES SHALL BE CONDUCTED ONCE EVERY CALENDAR WEEK AND, AS RECOMMENDED, WITHIN 24-HOURS AFTER EACH RAINFALL EVEN THAT PRODUCES 1/2-INCH OR MORE OF PRECIPITATION.
- DURING REGULAR INSPECTIONS, CHECK FOR MUD AND SEDIMENT BUILDUP AND PAD INTEGRITY. INSPECTION FREQUENCIES MAY NEED TO BE MORE FREQUENT DURING LONG PERIODS OF WET WEATHER.
- RESHAPE THE STONE PAD AS NECESSARY FOR DRAINAGE AND RUNOFF CONTROL.
- WASH OR REPLACE STONES AS NEEDED AND AS DIRECTED BY SITE INSPECTOR. THE STONE IN THE ENTRANCE SHOULD BE WASHED OR REPLACED WHENEVER THE ENTRANCE FAILS TO REDUCE THE AMOUNT OF MUD BEING CARRIED OFF-SITE BY VEHICLES. FREQUENT WASHING WILL EXTEND THE USEFUL LIFE OF STONE PAD.
- IMMEDIATELY REMOVE MUD AND SEDIMENT TRACKED OR WASHED ONTO ADJACENT IMPERVIOUS SURFACES BY BRUSHING OR SWEEPING. FLUSHING SHOULD ONLY BE USED WHEN THE WATER CAN BE DISCHARGED TO A SEDIMENT TRAP OR BASIN.
- DURING MAINTENANCE ACTIVITIES, ANY BROKEN PAVEMENT SHOULD BE REPAIRED IMMEDIATELY.
- CONSTRUCTION ENTRANCES SHOULD BE REMOVED AFTER THE SITE HAS REACHED FINAL STABILIZATION. PERMANENT VEGETATION SHOULD REPLACE AREAS FROM WHICH CONSTRUCTION ENTRANCES HAVE BEEN REMOVED, UNLESS AREA WILL BE CONVERTED TO AN IMPERVIOUS SURFACE TO SERVE POST-CONSTRUCTION.

CONSTRUCTION ENTRANCE

EDGES SHALL BE TAPERED OUT TOWARDS ROAD TO PREVENT TRACKING OF MUD ON THE EDGES

100' MINIMUM

6" MIN.

24' MINIMUM

UNDERLYING NON-WOVEN GEOTEXTILE FABRIC

AVERAGE STONE DIAMETER OF 2-3 INCHES WITH A 6 INCH MINIMUM DEPTH

SPECIFICATION	SIZE
ROCK PAD THICKNESS	6 INCHES
ROCK PAD WIDTH	24 FEET
ROCK PAD LENGTH	100 FEET
ROCK PAD STONE SIZE	D = 2-3 INCHES

South Carolina Department of Health and Environmental Control
CONSTRUCTION ENTRANCE
STANDARD DRAWING NO. SC-06 Page 1 of 2
NOT TO SCALE FEBRUARY 2014 DATE

TYPE A - FILTER FABRIC REQUIREMENTS

- SILT FENCE MUST BE COMPOSED OF WOVEN GEOTEXTILE FILTER FABRIC THAT CONSISTS OF THE FOLLOWING REQUIREMENTS:
- COMPOSED OF FIBERS CONSISTING OF LONG CHAIN SYNTHETIC POLYMERS OF AT LEAST 85% BY WEIGHT OF POLYOLEFINS, POLYESTERS, OR POLYAMIDES THAT ARE FORMED INTO A NETWORK SUCH THAT THE FILAMENTS OR YARNS RETAIN DIMENSIONAL STABILITY RELATIVE TO EACH OTHER.
- FREE OF ANY TREATMENT OR COATING WHICH MIGHT ADVERSELY ALTER ITS PHYSICAL PROPERTIES AFTER INSTALLATION.
- FREE OF ANY DEFECTS OR FLAWS THAT SIGNIFICANTLY AFFECT ITS PHYSICAL AND/OR FILTERING PROPERTIES; AND,
- HAVE A MINIMUM WIDTH OF 36-INCHES
- USE ONLY FABRIC APPEARING ON SC DOT'S QUALIFIED PRODUCTS LISTING (QPL), APPROVAL SHEET #34, MEETING THE REQUIREMENTS OF THE MOST CURRENT EDITION OF THE SC DOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.
- 12-INCHES OF THE FABRIC SHOULD BE PLACED WITHIN EXCAVATED TRENCH AND TOED IN WHEN THE TRENCH IS BACKFILLED.
- FILTER FABRIC SHALL BE PURCHASED IN CONTINUOUS ROLLS AND CUT TO THE LENGTH OF THE BARRIER TO AVOID JOINTS.
- FILTER FABRIC SHALL BE INSTALLED AT A MINIMUM OF 24-INCHES ABOVE THE GROUND.

TYPE A - POST REQUIREMENTS

- SILT FENCE POSTS MUST BE 48-INCH LONG STEEL POSTS THAT MEET, AT A MINIMUM, THE FOLLOWING PHYSICAL CHARACTERISTICS:
- COMPOSED OF A HIGH STRENGTH STEEL WITH A MINIMUM YIELD STRENGTH OF 50,000 PSI.
- INCLUDE A STANDARD "T" SECTION WITH A NOMINAL FACE WIDTH OF 1.38-INCHES AND A NOMINAL "T" LENGTH OF 1.48-INCHES.
- WEIGH 1.25 POUNDS PER FOOT (± 8%)
- POSTS SHALL BE EQUIPPED WITH PROJECTIONS TO AID IN FASTENING OF FILTER FABRIC.
- INSTALL POSTS TO A MINIMUM OF 24-INCHES. A MINIMUM HEIGHT OF 1- TO 2- INCHES ABOVE THE FABRIC SHALL BE MAINTAINED, AND A MAXIMUM HEIGHT OF 3 FEET SHALL BE MAINTAINED ABOVE THE GROUND.
- POST SPACING SHALL BE AT A MAXIMUM OF 3- FEET ON CENTER.

TYPE A - INSPECTION & MAINTENANCE

- THE KEY TO FUNCTIONAL INLET PROTECTION IS WEEKLY INSPECTIONS, ROUTINE MAINTENANCE, AND REGULAR SEDIMENT REMOVAL.
- REGULAR INSPECTIONS OF INLET PROTECTION SHALL BE CONDUCTED ONCE EVERY CALENDAR WEEK AND, AS RECOMMENDED, WITHIN 24-HOURS AFTER EACH RAINFALL EVEN THAT PRODUCES 1/2-INCH OR MORE OF PRECIPITATION.
- ATTENTION TO SEDIMENT ACCUMULATIONS ALONG THE FILTER FABRIC IS EXTREMELY IMPORTANT. ACCUMULATED SEDIMENT SHOULD BE CONTINUALLY MONITORED AND REMOVED WHEN NECESSARY.
- REMOVE ACCUMULATED SEDIMENT WHEN IT REACHES 1/3 THE HEIGHT OF THE FILTER FABRIC. WHEN A SUMP IS INSTALLED IN FRONT OF THE FABRIC, SEDIMENT SHOULD BE REMOVED WHEN IT FILLS APPROXIMATELY 1/3 THE DEPTH OF THE SUMP.
- REMOVED SEDIMENT SHALL BE PLACED IN STOCKPILE STORAGE AREAS OR SPREAD THINLY ACROSS DISTURBED AREA. STABILIZE THE REMOVED SEDIMENT AFTER IT IS RELOCATED.
- CHECK FOR AREAS WHERE STORMWATER RUNOFF HAS ERODED A CHANNEL BENEATH THE FILTER FABRIC, OR WHERE THE FABRIC HAS SAGGED OR COLLAPSED DUE TO RUNOFF OVERTOPPING THE INLET PROTECTION.
- CHECK FOR TEARS WITHIN THE FILTER FABRIC, AREAS WHERE FABRIC HAS BEGUN TO DECOMPOSE, AND FOR ANY OTHER CIRCUMSTANCE THAT MAY RENDER THE INLET PROTECTION INEFFECTIVE. REMOVE DAMAGED FABRIC AND REINSTALL NEW FILTER FABRIC IMMEDIATELY.
- INLET PROTECTION STRUCTURES SHOULD BE REMOVED AFTER ALL THE DISTURBED AREAS ARE PERMANENTLY STABILIZED. REMOVE ALL CONSTRUCTION MATERIAL AND SEDIMENT, AND DISPOSE OF THEM PROPERLY. GRADE THE DISTURBED AREA TO THE ELEVATION OF THE DROP INLET STRUCTURE CREST. STABILIZE ALL BARE AREAS IMMEDIATELY.

TYPE A - FILTER FABRIC INLET PROTECTION

HEADWALL OR FLARED-END SECTION

WATER FLOW

6 X PIPE DIAMETER

4 X PIPE DIAM.

4 X PIPE DIAM.

50 LB. MIN. SIZE (MIN. 8" THICK)

GEOTEXTILE FILTER FABRIC OR APPROVED ALTERNATE

SECTION

PLAN

SIDE

2"X2'X36" WOODEN STAKES PLACED 10' O.C.

AREA TO BE PROTECTED

WORK AREA

2"X2'X36" WOODEN STAKES PLACED 10' O.C.

AREA TO BE PROTECTED

WORK AREA

NOTES:

- INSTALL PER THE MANUFACTURER'S RECOMMENDATIONS PRIOR TO EXPOSING SUBGRADE.
- ROUTINE INSPECTIONS SHALL BE MADE WITHIN 24 HRS OF A RUNOFF EVENT.
- THE CONTRACTOR SHALL REMOVE SEDIMENT ONCE IT HAS REACHED 1/2 THE EFFECTIVE HEIGHT.
- THE SEDIMENT TUBE SHALL BE REPAIRED OR REPLACED IF IT IS DAMAGED.
- SEDIMENT TUBES SHALL BE 12" FILTER FABRIC SOXX OR AN APPROVED ALTERNATE.

South Carolina Department of Health and Environmental Control
**TYPE A
FILTER FABRIC INLET PROTECTION**
STANDARD DRAWING NO. SC-07 Page 2 of 2
GENERAL NOTES FEBRUARY 2014 DATE

RIP RAP PLACEMENT DETAIL

HEADWALL OR FLARED-END SECTION

WATER FLOW

6 X PIPE DIAMETER

4 X PIPE DIAM.

50 LB. MIN. SIZE (MIN. 8" THICK)

GEOTEXTILE FILTER FABRIC OR APPROVED ALTERNATE

SECTION

PLAN

SIDE

2"X2'X36" WOODEN STAKES PLACED 10' O.C.

AREA TO BE PROTECTED

WORK AREA

2"X2'X36" WOODEN STAKES PLACED 10' O.C.

AREA TO BE PROTECTED

WORK AREA

NOTES:

- INSTALL PER THE MANUFACTURER'S RECOMMENDATIONS PRIOR TO EXPOSING SUBGRADE.
- ROUTINE INSPECTIONS SHALL BE MADE WITHIN 24 HRS OF A RUNOFF EVENT.
- THE CONTRACTOR SHALL REMOVE SEDIMENT ONCE IT HAS REACHED 1/2 THE EFFECTIVE HEIGHT.
- THE SEDIMENT TUBE SHALL BE REPAIRED OR REPLACED IF IT IS DAMAGED.
- SEDIMENT TUBES SHALL BE 12" FILTER FABRIC SOXX OR AN APPROVED ALTERNATE.

South Carolina Department of Health and Environmental Control
**TYPE A
FILTER FABRIC INLET PROTECTION**
STANDARD DRAWING NO. SC-07 Page 2 of 2
GENERAL NOTES FEBRUARY 2014 DATE

SEDIMENT TUBE

2"X2'X36" WOODEN STAKES PLACED 10' O.C.

AREA TO BE PROTECTED

WORK AREA

2"X2'X36" WOODEN STAKES PLACED 10' O.C.

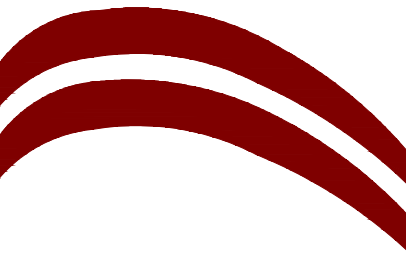
AREA TO BE PROTECTED

WORK AREA

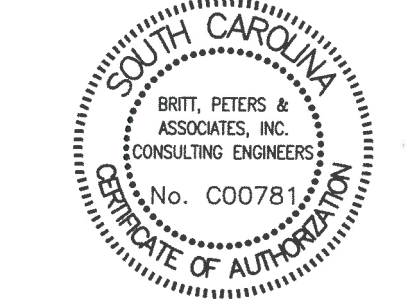
NOTES:

- INSTALL PER THE MANUFACTURER'S RECOMMENDATIONS PRIOR TO EXPOSING SUBGRADE.
- ROUTINE INSPECTIONS SHALL BE MADE WITHIN 24 HRS OF A RUNOFF EVENT.
- THE CONTRACTOR SHALL REMOVE SEDIMENT ONCE IT HAS REACHED 1/2 THE EFFECTIVE HEIGHT.
- THE SEDIMENT TUBE SHALL BE REPAIRED OR REPLACED IF IT IS DAMAGED.
- SEDIMENT TUBES SHALL BE 12" FILTER FABRIC SOXX OR AN APPROVED ALTERNATE.

South Carolina Department of Health and Environmental Control
CONSTRUCTION ENTRANCE
STANDARD DRAWING NO. SC-06 Page 2 of 2
GENERAL NOTES FEBRUARY 2014 DATE



SEALS



11/01/24

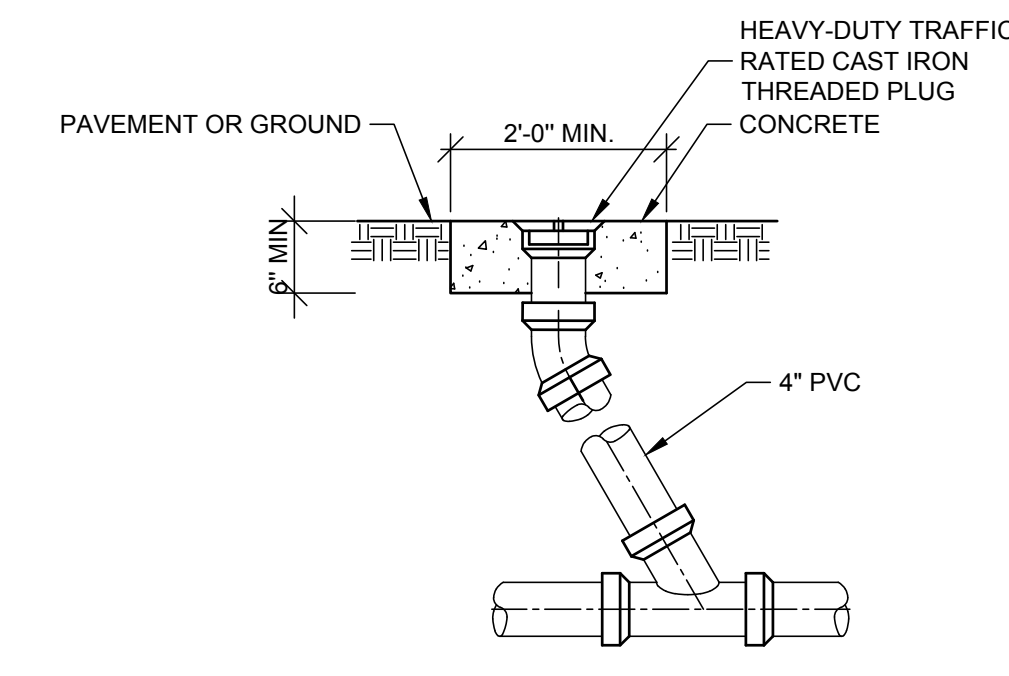
CLEMSON PARK

114 CLEMSON PARK RD CLEMSON, SC 29631

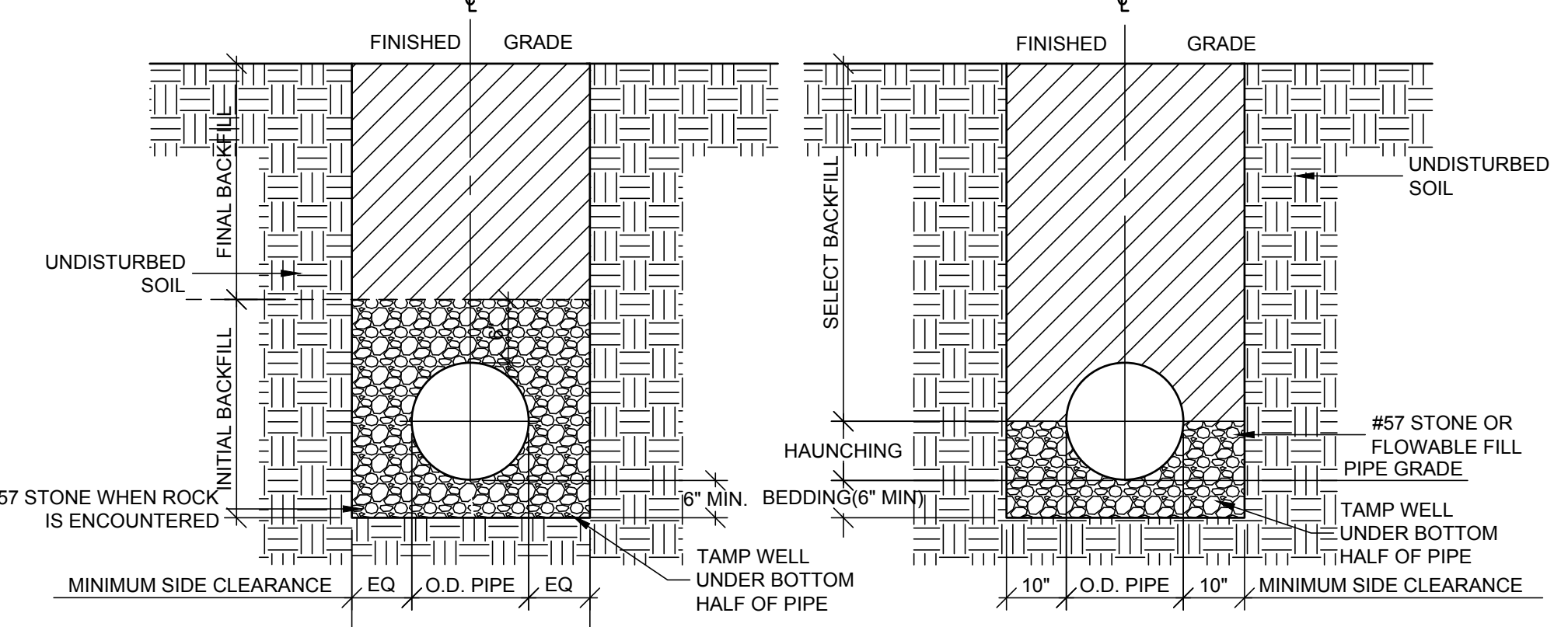
REVISIONS table with columns for NO., DATE, and DESCRIPTION.

Project Manager: JAC, Project Engineer: TAH, Drawn By: MPW

SITE DETAILS box containing Sheet Title, Sheet Number (C5.1), Project Number (240385), and Date (11/01/2024).



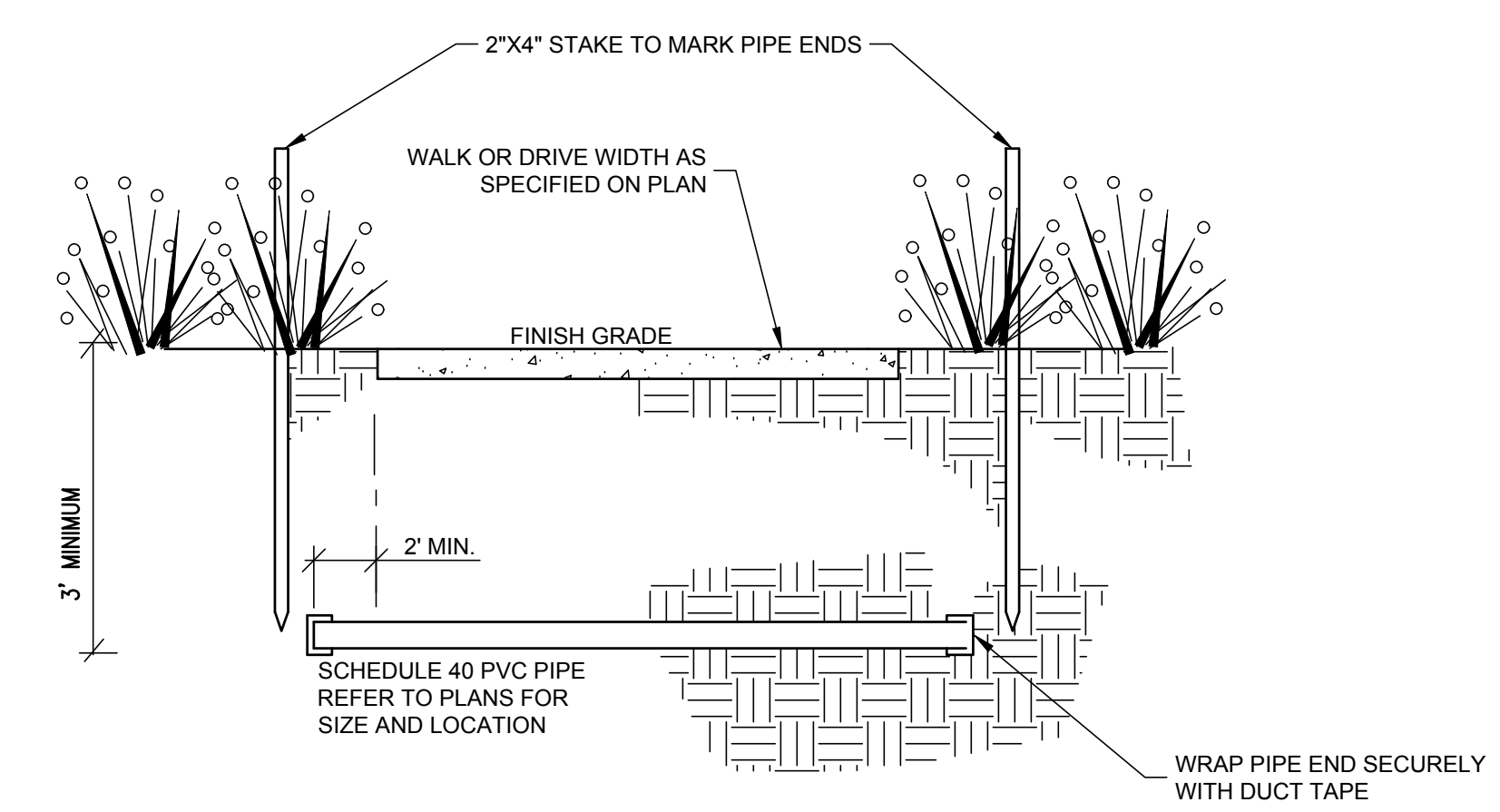
CLEAN-OUT DETAIL NTS



TRENCH REQUIREMENTS FOR HDPE PIPES and TRENCH REQUIREMENTS FOR DUCTILE IRON AND REINFORCED CONCRETE PIPES

- NOTES: 1. FOR TRENCHES REQUIRING SHORING AND BRACING, DIMENSIONS SHALL BE TAKEN FROM THE FACE OF THE SHORING AND BRACING. 2. THE TRENCH FOUNDATION SHALL BE APPROVED BY A GEOTECHNICAL ENGINEER PRIOR TO INSTALLING PIPE. 3. SELECT BACKFILL MATERIAL SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO INSTALLATION. 4. BACKFILL SHALL BE TAMPED IN 6" LIFTS IN TRAFFIC AREAS, 9" IN NON-TRAFFIC AREAS. 5. FLOWABLE FILL SHALL MEET SCDOT SPECIFICATIONS FOR EXCAVATABLE FLOWABLE FILL.

TRENCH DETAILS NTS



NOTE: INSERT # 4 REBAR SECTION OR OTHER METAL OBJECT INSIDE PIPE END PRIOR TO TAPING TO FACILITATE FUTURE FINDINGS OF SLEEVE WITH METAL DETECTOR, REMOVE REBAR PRIOR TO USING SLEEVE.

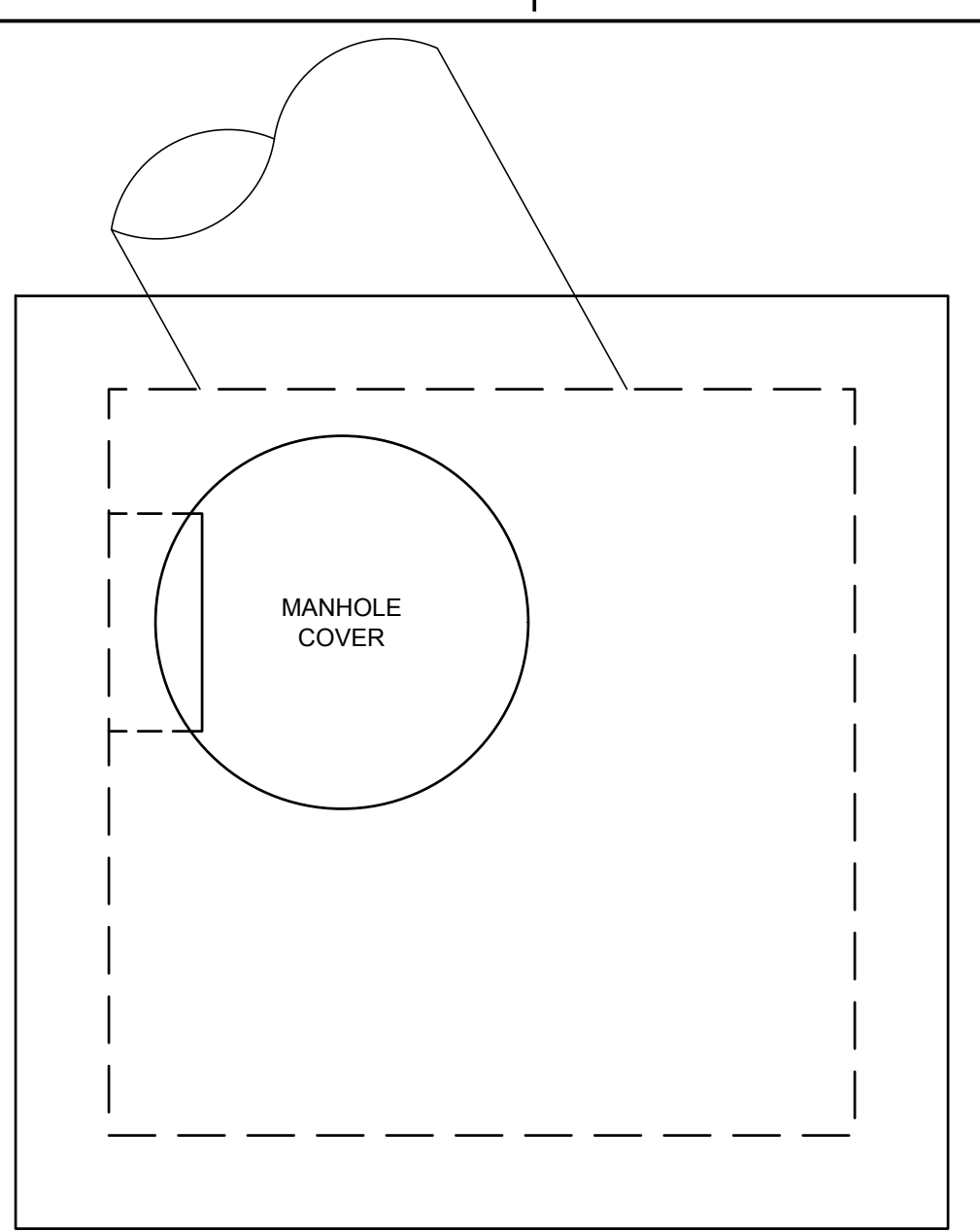
UTILITY SLEEVE DETAIL NTS

PROJECT INFORMATION table, ADS logo, CLEMSON PARK CLEMSON, SC, USA, MC-3500 STORMTECH CHAMBER SPECIFICATIONS, IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF MC-3500 CHAMBER SYSTEM, and NOTES FOR CONSTRUCTION EQUIPMENT.

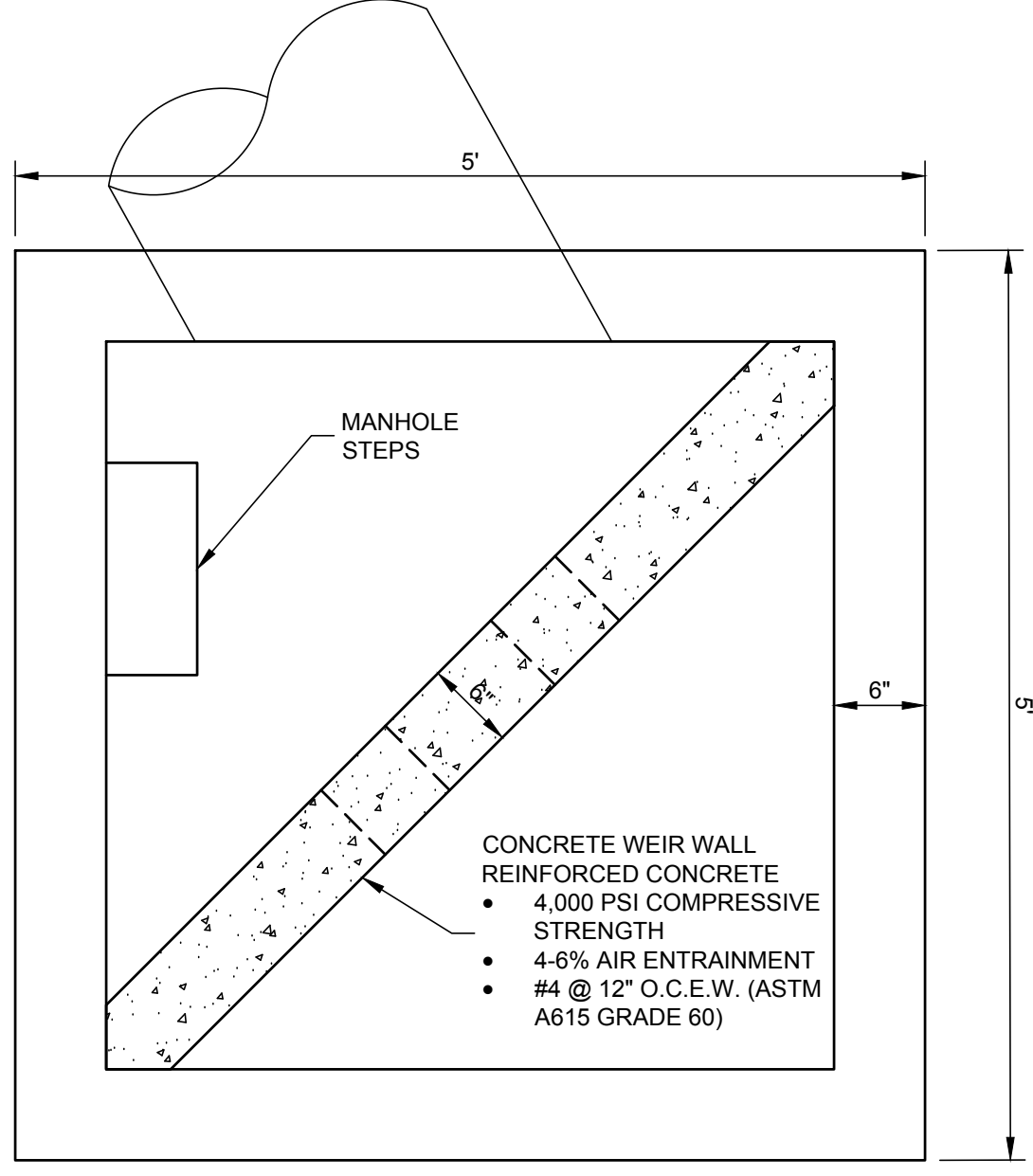
PROPOSED LAYOUT table, PROPOSED ELEVATIONS table, PART TYPE table, ITEM ON LAYOUT table, DESCRIPTION table, INVERT table, and a large plan view diagram of the chamber system layout.

ISOLATOR ROW PLUS, PLACE MINIMUM 17.5% OF ADSP LUS125 WOVEN GEOTEXTILE OVER BEDDING STONE AND UNDERNEATH CHAMBER FEET FOR SCOUR PROTECTION AT ALL CHAMBER INLET ROWS, and a large plan view diagram of the chamber system layout.

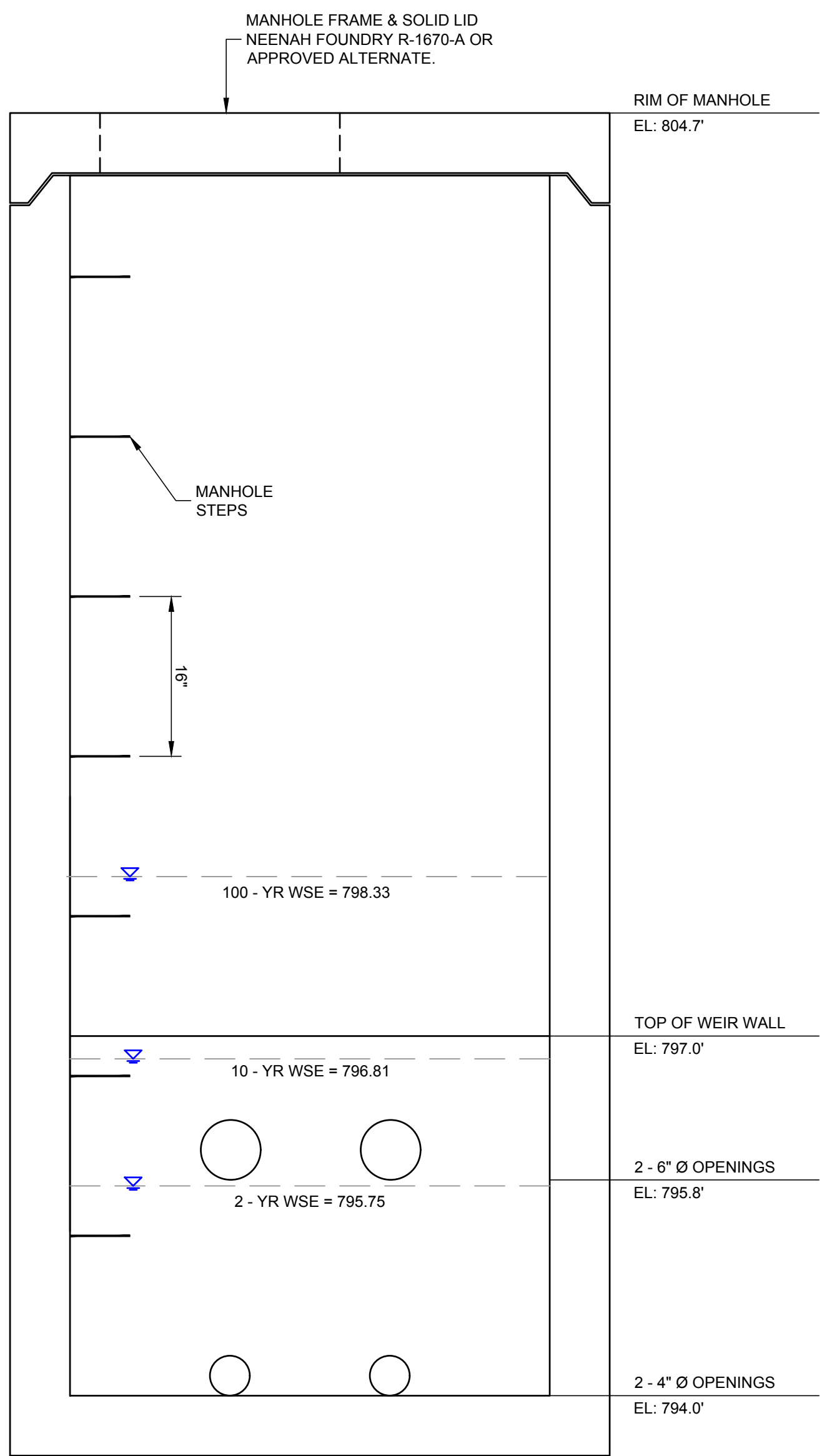
NOTES: THE SITE DESIGN ENGINEER MUST REVIEW ELEVATIONS AND IF NECESSARY ADJUST GRADING TO ENSURE THE CHAMBER COVER REQUIREMENTS ARE MET.



TOP

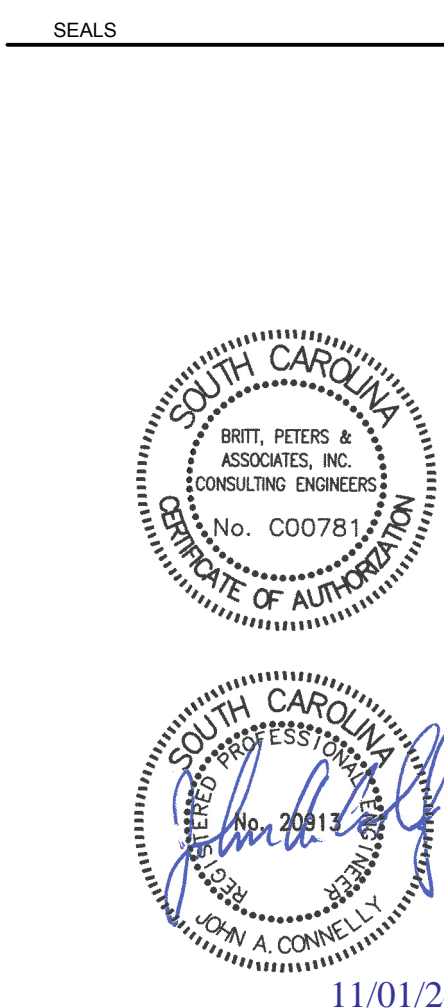


PLAN



OUTLET CONTROL STRUCTURE / WEIR WALL NTS

Vertical dimension lines A, B, C, D along the left edge of the drawing.



11/01/24

CLEMSON PARK

114 CLEMSON PARK RD
 CLEMSON, SC 29631

REVISIONS:	NO.	DATE	DESCRIPTION
0	11/01/2024	100% SET	

Project Manager: JAC
 Project Engineer: TAH
 Drawn By: MPW

Sheet Title:
SITE DETAILS

Sheet Number: 240385
C5.2
 Date: 11/01/2024

ACCEPTABLE FILL MATERIALS: STORMTECH MC-3500 CHAMBER SYSTEMS

MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE SUBBASE STONE (IF LAYER) TO 2" (50 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	AASHTO M145 ¹ A-1, A-2.4, A-3 OR AASHTO M43 ² 3, 357, 4, 497, 5, 56, 57, 6, 97, 98, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 2" (50 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 12" (300 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 90% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS.
B	EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE (A LAYER) TO THE 'C' LAYER ABOVE.	AASHTO M43 ² 3, 357, 4, 497, 5, 56, 57	NO COMPACTION REQUIRED.
A	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	AASHTO M43 ² 3, 357, 4, 497, 5, 56, 57	PLATE COMPACTION OR ROLL TO ACHIEVE A FLAT SURFACE. ^{2,3}

PLEASE NOTE:
 1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
 2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR A LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (20 mm) (MAX) LIFTS USING TWO FULL COVERSAGES WITH A VIBRATORY COMPACTOR.
 3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAINING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
 4. ONCE LAYER 'C' IS PLACED, ANY SOIL MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.
 5. WHERE RECYCLED CONCRETE AGGREGATE IS USED IN LAYERS 'A' OR 'B' THE MATERIAL SHOULD ALSO MEET THE ACCEPTABILITY CRITERIA OUTLINED IN TECHNICAL NOTE 6.20 "RECYCLED CONCRETE STRUCTURAL BACKFILL".

NOTES:
 1. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 45x76 DESIGNATION SS.
 2. MC-3500 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
 3. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING CAPACITY OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS. REFERENCE STORMTECH DESIGN MANUAL FOR BEARING CAPACITY GUIDANCE.
 4. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
 5. REQUIREMENTS FOR HANDLING AND INSTALLATION:
 • TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
 • TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 3".
 • TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 450 LBS/FT². THE ASC IS DEFINED IN SECTION 6.2.8 OF ASTM F2418 AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 22° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

MC-3500 ISOLATOR ROW PLUS DETAIL

INSPECTION & MAINTENANCE

STEP 1) INSPECT ISOLATOR ROW PLUS FOR SEDIMENT

A. INSPECTION PORTS (IF PRESENT)
 A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
 A.2. REMOVE AND CLEAN FLEXFORM FILTER IF INSTALLED
 A.3. USING A FLASHLIGHT AND STAGNA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
 A.4. LOWER A CAMERA INTO ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
 A.5. IF SEDIMENT IS AT OR ABOVE 3" (80 mm) PROCEED TO STEP 2; IF NOT, PROCEED TO STEP 3.

B. ALL ISOLATOR PLUS ROWS
 B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS THROUGH OUTLET PIPE
 B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH OUTLET PIPE
 i) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
 ii) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
 IF SEDIMENT IS AT OR ABOVE 3" (80 mm) PROCEED TO STEP 2; IF NOT, PROCEED TO STEP 3.

STEP 2) CLEAN OUT ISOLATOR ROW PLUS USING THE JETVAC PROCESS
 A. A FIXED CILVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45° (1.1 m) OR MORE IS PREFERRED
 B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
 C. VACUUM STRUCTURE SUMP AS REQUIRED

STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.

STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

NOTES
 1. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION, ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
 2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.

UNDERDRAIN DETAIL

MC-3500 TECHNICAL SPECIFICATION

VALLEY	CREST
45.0" (1143 mm)	86.0" (2184 mm) INSTALLED
77.0" (1959 mm)	90.0" (2286 mm) ACTUAL LENGTH
75.0" (1905 mm)	22.2" (564 mm) INSTALLED
23.3" (594 mm)	23.2" (589 mm)

NOMINAL CHAMBER SPECIFICATIONS
 SIZE (W X H X INSTALLED LENGTH)
 CHAMBER STORAGE
 MINIMUM INSTALLED STORAGE*
 WEIGHT

SIZE (W X H X INSTALLED LENGTH)	CHAMBER STORAGE	MINIMUM INSTALLED STORAGE*	WEIGHT
77.0" X 45.0" X 86.0"	169.9 CUBIC FEET (4.8 m ³)	176.0 CUBIC FEET (4.9 m ³)	134 lbs. (60.8 kg)
75.0" X 45.0" X 22.2"	14.9 CUBIC FEET (0.42 m ³)	45.1 CUBIC FEET (1.28 m ³)	49.9 lbs. (22.6 kg)

*ASSUMES 12" (305 mm) STONE ABOVE, 9" (229 mm) STONE FOUNDATION, 6" SPACING BETWEEN CHAMBERS, 6" (152 mm) STONE PERIMETER IN FRONT OF END CAPS AND 40% STONE POROSITY

NOMINAL END CAP SPECIFICATIONS
 SIZE (W X H X INSTALLED LENGTH)
 END CAP STORAGE
 MINIMUM INSTALLED STORAGE*
 WEIGHT

SIZE (W X H X INSTALLED LENGTH)	END CAP STORAGE	MINIMUM INSTALLED STORAGE*	WEIGHT
77.0" X 45.0" X 22.2"	14.9 CUBIC FEET (0.42 m ³)	45.1 CUBIC FEET (1.28 m ³)	49.9 lbs. (22.6 kg)

STUBS AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"
 STUBS AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"
 END CAPS WITH A WELDED CROWN PLATE END WITH "C"
 END CAPS WITH A PREFABRICATED WELDED STUB END WITH "W"

PART #	STUB	B	C
MC3500EP10BT	6" (150 mm)	33.21" (844 mm)	0.69" (17 mm)
MC3500EP10BT	6" (200 mm)	31.16" (791 mm)	---
MC3500EP10BT	6" (250 mm)	29.04" (738 mm)	0.81" (21 mm)
MC3500EP11BT	10" (250 mm)	26.38" (670 mm)	0.93" (24 mm)
MC3500EP12BT	12" (300 mm)	26.38" (670 mm)	1.35" (34 mm)
MC3500EP13BT	15" (375 mm)	23.39" (594 mm)	---
MC3500EP14BT	18" (450 mm)	20.03" (509 mm)	---
MC3500EP15BT	24" (600 mm)	14.48" (368 mm)	---
MC3500EP16BT	30" (750 mm)	---	2.08" (52 mm)
MC3500EP17BT	36" (900 mm)	---	2.78" (70 mm)

NOTE: ALL DIMENSIONS ARE NOMINAL.

INSERTA TEE DETAIL

PLACE ADSPLUS WOVEN GEOTEXTILE (CENTERED ON INSERTA TEE INLET) OVER BEDDING STONE FOR SCOUR PROTECTION AT SIDE INLET CONNECTIONS. GEOTEXTILE MUST EXTEND 6" (150 mm) PAST CHAMBER FOOT.

CHAMBER	MAX DIAMETER OF INSERTA TEE	HEIGHT FROM BASE OF CHAMBER (X)
SC-310	6" (150 mm)	4" (100 mm)
SC-740	10" (250 mm)	4" (100 mm)
SC-800	10" (250 mm)	4" (100 mm)
DC-780	10" (250 mm)	4" (100 mm)
MC-3500	12" (300 mm)	6" (150 mm)
MC-4500	12" (300 mm)	8" (200 mm)
MC-7200	12" (300 mm)	8" (200 mm)

INSERTA TEE FITTINGS AVAILABLE FOR SDR 26, SDR 35, SCH 40 IPS CARBIDE & SOLVENT WELD, 1/2", HP STORM, C2000 OR DUCTILE IRON.

NOTES:
 • PART NUMBERS WILL VARY BASED ON INLET PIPE MATERIALS. CONTACT STORMTECH FOR MORE INFORMATION.
 • CONTACT ADS ENGINEERING SERVICES IF INSERTA TEE INLET MUST BE RAISED AS NOT ALL INVERTS ARE POSSIBLE.

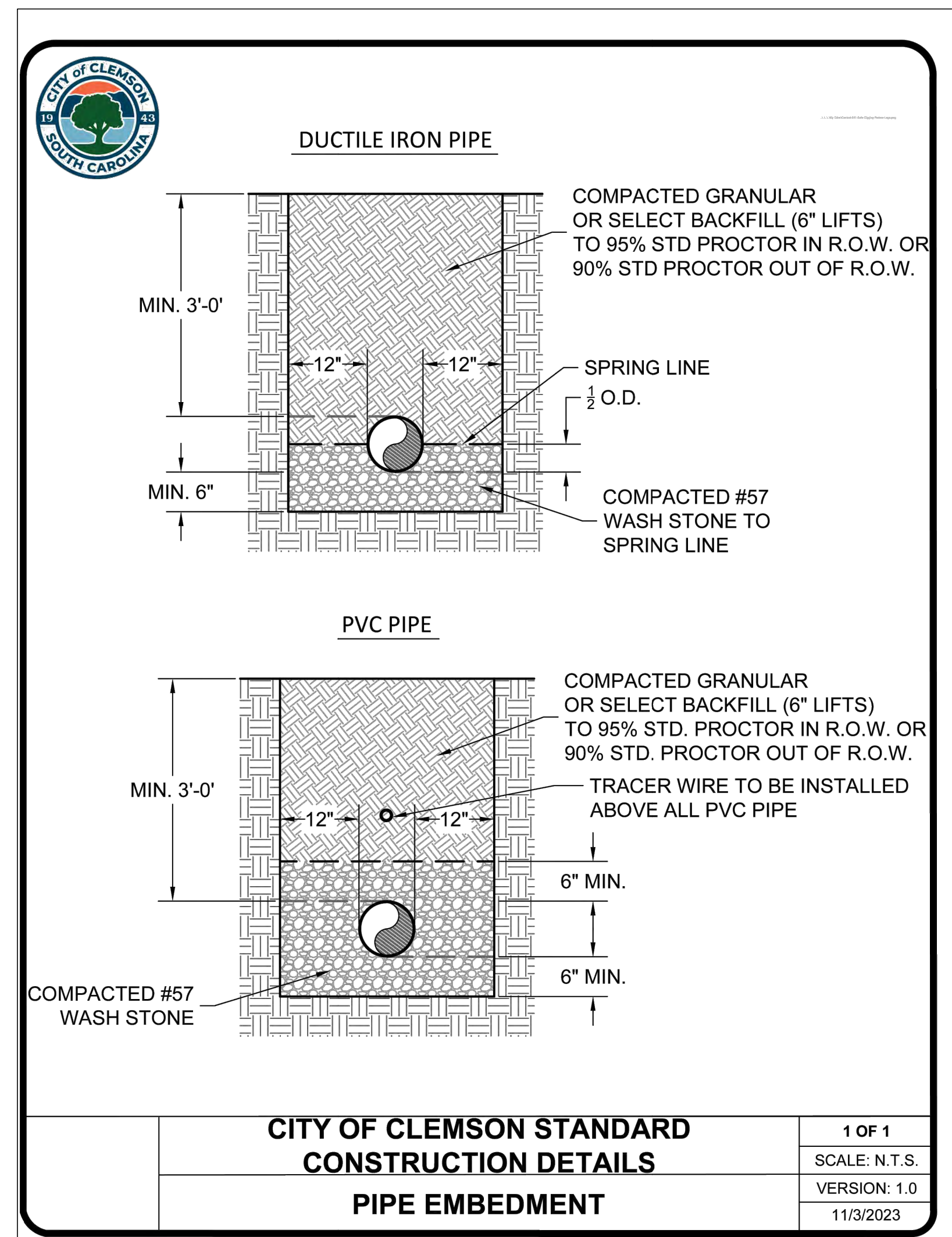
1
2
3
4
5

D
C
B
A

4640 TRELAWAY BLVD
 CLEMSON, SC 29631
 1-800-733-7473

4640 TRELAWAY BLVD
 CLEMSON, SC 29631
 1-800-733-7473

4640 TRELAWAY BLVD
 CLEMSON, SC 29631
 1-800-733-7473



CITY OF CLEMSON STANDARD CONSTRUCTION DETAILS PIPE EMBEDMENT

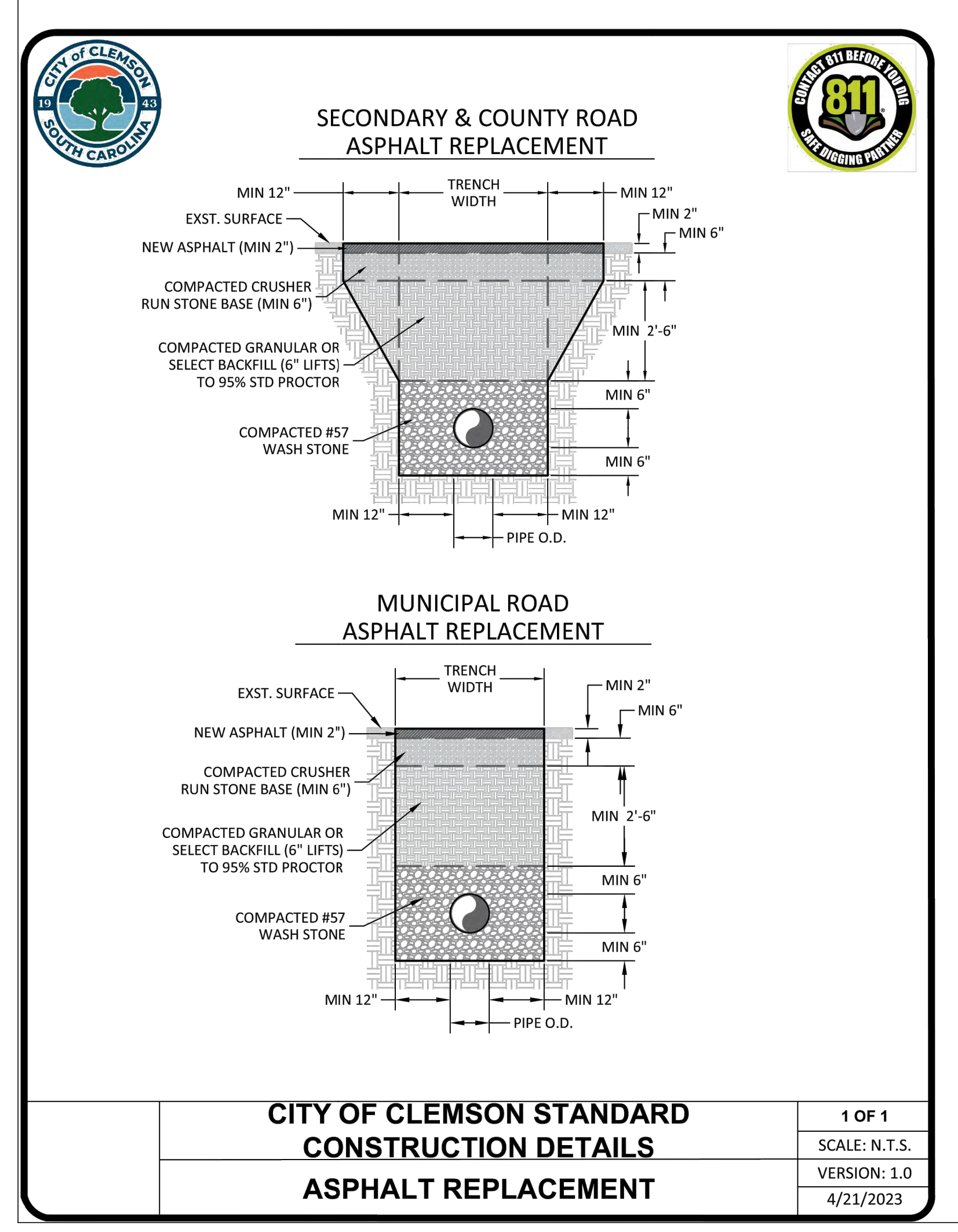
1 OF 1
SCALE: N.T.S.
VERSION: 1.0
11/3/2023

City of Clemson - Water Distribution Specifications (Condensed)

- 1) A pre-construction conference to include the owner, contractor, City Utilities Department personnel prior to any water line construction will be required.
- 2) All newly constructed water lines greater than 2 inches in diameter shall be Class 350 Ductile Iron Pipe. All 2 inch water lines shall be Class 315 PVC pipe. Each joint shall be clearly and legibly marked with the manufacturer's name or identifying symbol. Special circumstances may require different pipe material as specified or approved by the City of Clemson Utilities Director or City Engineer.
- 3) The contractor shall notify the City of Clemson Utilities Department a minimum of 72 hours prior to the tapping of any existing water line.
- 4) All newly constructed water lines requiring a bore under City, County or State roads shall be steel cased per the details to center the carrier pipe and distribute weight.
- 5) All mechanical joints (tees, bends, connections, etc.) shall be Mega-Lugged with appropriate thrust blocking per the standard details. (See standard thrust block schedule detail)
- 6) All above ground swale or creek crossings will be made with ductile iron pipe per standard details.
- 7) All newly constructed water lines shall have a minimum of 3 feet of cover, unless otherwise approved by the Utilities Director or City Engineer.
- 8) No trees or shrubs shall be planted within 10 feet of water main or fire hydrant.
- 9) All newly constructed water lines water line trenches shall be compacted with select, clean backfill in 1 foot lifts or layers to a compaction level that meets or exceeds the 95% SPT within a roadway and 90% SPT when outside of a roadway.
- 10) All gate valves shall be AWWA approved, non-rising stem, mechanical joint, epoxy coated, cast-iron by Mueller or approved equal.
- 11) All valve boxes shall be screw type, cast iron with cast iron cover, traffic-duty rated and the text "WATER" cast into lid. Valves should be placed as close to the main as practicable & clustered with other valves for ease of system operation.
- 12) Valve boxes outside of the roadway shall have a concrete collar.
- 13) All fire hydrant barrels shall be painted red and the hydrant dome or top shall be painted a reflective white.
- 14) All fire hydrants shall be Mueller Three-Way, Centurion or approved equal. Fire Hydrants connected water mains with diameters greater than 10 inches shall have a 5/8" opening and hydrants connected to water mains from 6 to 8 inches shall have a 4/8" opening.
- 15) The City of Clemson shall be granted a minimum 20' wide utility service and maintenance easement prior to the acceptance or transfer of ownership of any water lines.
- 16) All newly constructed water lines shall maintain a minimum 10 foot horizontal and 2 foot vertical clearance between sanitary sewer lines.
- 17) All "blow-offs" for 6 inch diameter water lines shall be at least 2 inches in diameter, larger diameter water lines may require larger "blow-offs" to be determined by the design engineer and verified by City of Clemson Utilities plan review personnel.
- 18) All service lines shall be Type "K" Copper as specified in the standard details. Service lines shall be sleeved with a PVC conduit under roadways and areas where damage to the service line is above normal potential, to be determined by the Utilities Inspector.
- 19) After construction, all water lines shall be positive pressure tested to 200 PSI for a duration of two hours, with no loss of water being acceptable. After a passing pressure test, two DHEC certified bacterial samples, each separated by 24 hours, shall be taken to verify the newly constructed water lines are safe for consumption, per SC DHEC regulations and specifications.
- 20) All water lines shall be inspected, approved and certified by the City of Clemson Utilities inspection staff, design engineer and SC DHEC staff prior to issuance of permit to operate and any acceptance by the City of Clemson.
- 21) Prior to the acceptance of any newly constructed water lines "as-built" drawings must be certified and submitted by the design engineer to the City Engineer.
- 22) All newly constructed water lines and associated infrastructure shall include a minimum of one calendar year warranty. The City of Clemson reserves the right to prescribe a greater warranty period if deemed necessary prior to the acceptance of any water line system maintenance.
- 23) The City of Clemson reserves the right to charge any contractor for extensive or excessive use of water during the construction and testing process. All use of water shall be estimated and reported to the Utilities Inspector as soon as practicable.

CITY OF CLEMSON STANDARD CONSTRUCTION DETAILS WATER DISTRIBUTION SPECIFICATIONS

1 OF 1
SCALE: N.T.S.
VERSION: 1.0
4/21/2023



CITY OF CLEMSON STANDARD CONSTRUCTION DETAILS ASPHALT REPLACEMENT

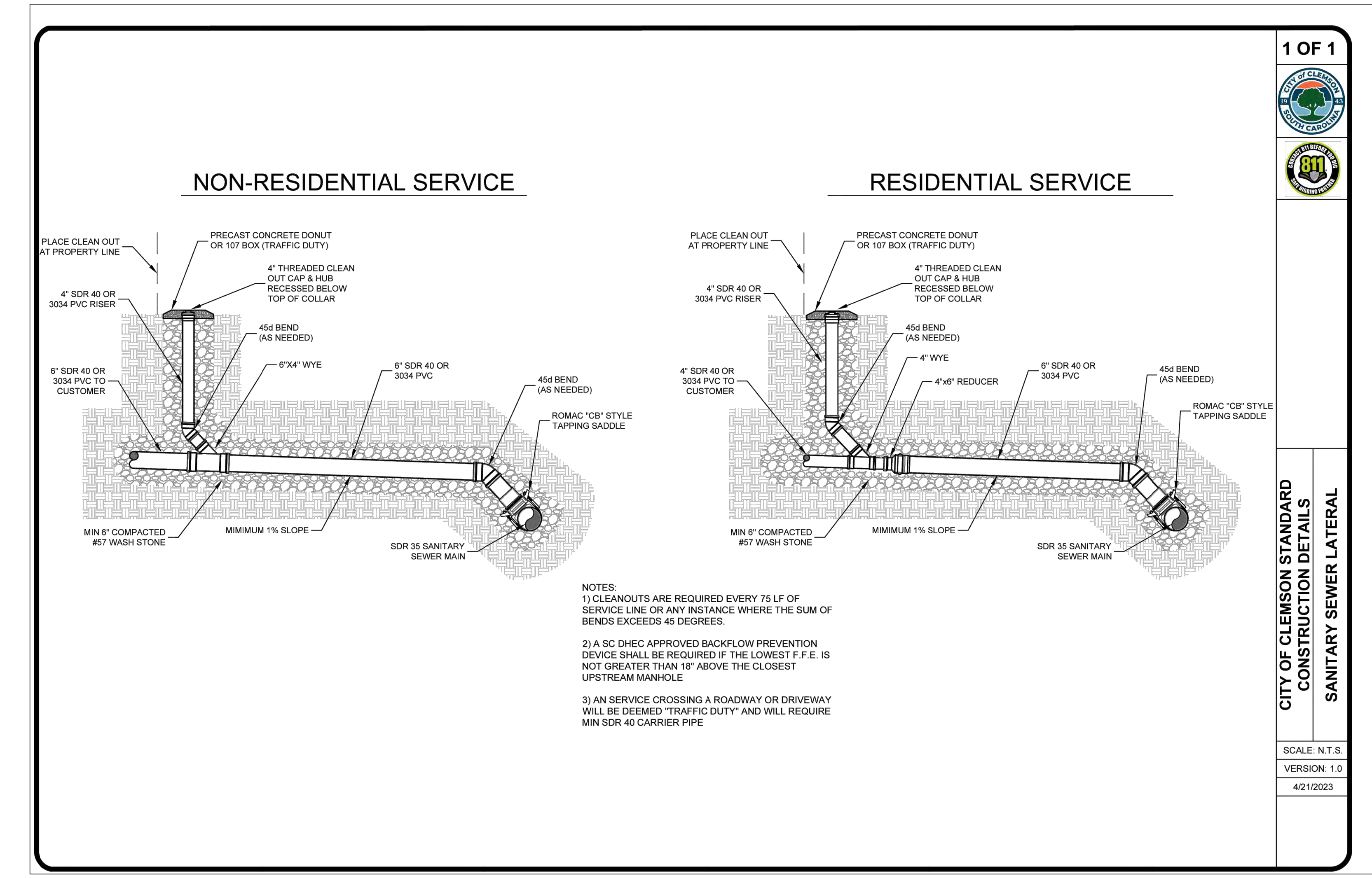
1 OF 1
SCALE: N.T.S.
VERSION: 1.0
4/21/2023

CITY OF CLEMSON STANDARD CONSTRUCTION DETAILS THRUST BLOCK SCHEDULE

PIPE SIZE (IN.)	THRUST BLOCKS (MIN. DIMENSIONS IN FEET)							
	90° BENDS		45° BENDS		22 1/2° BENDS		TEE	
	B	D	B	D	B	D	B	D
2	1.0	0.7	-	1.0	0.7	-	1.0	0.7
3	1.0	0.7	-	1.0	0.7	-	1.0	0.7
4	1.0	0.7	-	1.0	0.7	-	1.2	0.7
6	1.4	0.7	-	1.0	0.7	-	1.6	0.7
8	1.8	0.8	-	1.4	0.7	-	2.2	1.0
10	2.3	1.0	-	1.7	0.8	-	2.7	1.0
12	2.7	1.0	-	2.0	0.8	-	3.2	1.0
14	3.2	1.0	4-#5S	2.4	1.0	3-#5S	1.7	0.7
16	3.6	1.0	5-#5S	2.7	1.0	3-#5S	1.9	0.8
18	4.1	1.2	5-#5S	3.0	1.0	4-#5S	2.2	1.0
20	4.5	1.2	5-#5S	3.4	1.0	4-#5S	2.4	1.0
24	5.5	1.2	6-#5S	4.0	1.0	5-#5S	2.9	1.0
30	6.8	1.5	8-#5S	5.0	1.2	6-#5S	3.6	1.0
36	8.2	1.7	9-#5S	6.0	1.3	7-#5S	4.3	1.2
42	9.6	1.8	10-#5S	7.0	1.5	8-#5S	5.0	1.2

CITY OF CLEMSON STANDARD CONSTRUCTION DETAILS THRUST BLOCK SCHEDULE

1 OF 1
SCALE: N.T.S.
VERSION: 1.0
4/21/2023



NON-RESIDENTIAL SERVICE

RESIDENTIAL SERVICE

CITY OF CLEMSON STANDARD CONSTRUCTION DETAILS SANITARY SEWER LATERAL

1 OF 1
SCALE: N.T.S.
VERSION: 1.0
4/21/2023

- NOTES:
- 1) CLEANOUTS ARE REQUIRED EVERY 75 LF OF SERVICE LINE OR ANY INSTANCE WHERE THE SUM OF BENDS EXCEEDS 45 DEGREES.
 - 2) A SC DHEC APPROVED BACKFLOW PREVENTION DEVICE SHALL BE REQUIRED IF THE LOWEST F.F.E. IS NOT GREATER THAN 18" ABOVE THE CLOSEST UPSTREAM MANHOLE.
 - 3) AN SERVICE CROSSING A ROADWAY OR DRIVEWAY WILL BE DEEMED "TRAFFIC DUTY" AND WILL REQUIRE MIN SDR 40 CARRIER PIPE.

CITY OF CLEMSON - SANITARY SEWER SPECIFICATIONS (CONDENSED)

- 1) THE CITY OF CLEMSON HAS BEEN GRANTED DELEGATED REVIEW AUTHORITY BY SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (SC DHEC), THEREFORE, WRITTEN APPROVAL FROM THE CITY OF CLEMSON MUST BE OBTAINED PRIOR TO ANY SUBMISSIONS TO SC DHEC FOR PERMITTING.
- 2) A PRE-CONSTRUCTION CONFERENCE WITH THE CONTRACTOR, DESIGN ENGINEER, CITY OF CLEMSON ENGINEERING & UTILITIES DEPARTMENT STAFF AND SC DHEC SHALL BE HELD PRIOR TO THE CONSTRUCTION OF ANY SANITARY SEWER CONSTRUCTION OR MODIFICATION.
- 3) ALL WORK SHALL BE CONSTRUCTED IN STRICT ACCORDANCE WITH THE APPROVED PLANS, SPECIFICATIONS AND INSTRUCTIONS GIVEN BY THE OWNER'S REPRESENTATIVE, SC DHEC AND THE CITY OF CLEMSON.
- 4) ALL SANITARY SEWER WORK SHALL COMPLY WITH LOCAL CODES AND ORDINANCES, APPLICABLE STATE AND FEDERAL STANDARDS AND OSHA REGULATIONS.
- 5) THE DESIGN ENGINEER, CITY OF CLEMSON UTILITIES DEPARTMENT AND SC DHEC MUST PERMIT, INSPECT AND APPROVE ALL WORK BEFORE BEING PLACED INTO SERVICE.
- 6) AS-BUILT DRAWINGS SHALL BE SUPPLIED TO THE CITY OF CLEMSON AND SC DHEC IN BOTH HARD COPY (PAPER) AND ELECTRONIC (PDF, CADD/WIG) BEFORE FINAL APPROVAL IS ISSUED.
- 7) ALL RIGHT-OF-WAY EASEMENT/INFORMATION ASSIGNED TO THE CITY OF CLEMSON MUST BE FILED AND RECORDED AT THE PICKENS COUNTY DEEDS AND PROPERTIES OFFICE.
- 8) ALL WORK SHALL CARRY A MINIMUM OF ONE CALENDAR YEAR WARRANTY AS PRESCRIBED BY THE CITY OF CLEMSON PRIOR TO ASSUMPTION OF MAINTENANCE ACTIVITIES BY THE CITY OF CLEMSON UTILITIES DEPARTMENT. THE CITY OF CLEMSON RESERVES THE RIGHT TO REQUIRE LONGER WARRANTY PERIODS IF DEEMED NECESSARY BY THE CITY ENGINEER OR UTILITIES DIRECTOR.
- 9) AN APPROVED ENCROACHMENT PERMIT MUST BE OBTAINED FOR ANY SANITARY SEWER WORK OCCURRING WITHIN A STREET RIGHT-OF-WAY THROUGH THE CITY OF CLEMSON PUBLIC WORKS DEPARTMENT.
- 10) THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRS TO EXISTING ROADWAYS USED DURING CONSTRUCTION. THE CONTRACTOR SHALL REMOVE ANY DIRT, MUD OR DEBRIS FROM THE HIGHWAY/ROADWAY AND WILL BE HELD RESPONSIBLE FOR ANY DAMAGES CAUSED BY LACK OF COMPLIANCE. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR REPAIRING THE ENTIRE AFFECTED ROADWAY SURFACE IF DEEMED NECESSARY BY THE CITY ENGINEER OR UTILITIES DIRECTOR FOR EXCESSIVE ROADWAY CUTS OR DAMAGE.
- 11) NO TREES OR SHRUBS SHALL BE PLANTED OR ALLOWED WITHIN 10 LINEAR FEET OF A SANITARY SEWER LINE.
- 12) THE CITY OF CLEMSON SHALL BE PROVIDED WITH A CERTIFICATION LETTER FROM THE PIPE SUPPLIER THAT ALL PVC PIPE HAS BEEN STORED INSIDE FROM THE TIME OF MANUFACTURE.
- 13) EACH JOINT OF PIPE SHALL BE CLEARLY AND LEGIBLY MARKED WITH THE MANUFACTURER'S NAME AND IDENTIFYING SYMBOL.
- 14) ALL SANITARY SEWER PIPE SHALL BE PVC (SDR 35) OR DUCTILE IRON PIPE (DIP) WITH PROTECTO 401TM CERAMIC EPOXY COATING.
- 15) A MINIMUM OF 4 FEET OF COVER DEPTH SHALL BE MAINTAINED FOR ALL PVC PIPE.
- 16) ANY TIME THAT 4 FEET MINIMUM OF COVER DEPTH CANNOT BE MAINTAINED OR EXCEEDS 10 FEET OF COVER DEPTH, DUCTILE IRON PIPE SHALL BE REQUIRED AND MUST ALSO BE APPROVED BY THE CITY ENGINEER OR UTILITIES DIRECTOR.
- 17) ANY ROADWAY OR CREEK CROSSINGS WILL REQUIRE DUCTILE IRON PIPE AND MAY REQUIRE ENCASEMENT W/ PIPE SPIGERS AT THE DISCRETION OF THE CITY OF CLEMSON.
- 18) ALL EXCAVATIONS SHALL BE COMPLETED IN ONE (1) FOOT LIFTS OR LAYERS AND SHALL BE CLEAN OF ANY DEBRIS. BACKFILL IN ROADWAY ROWS SHALL BE COMPACTED TO THE 95% STD PROCTOR. ALL OTHER BACKFILLS SHALL BE COMPACTED TO THE 90% STD PROCTOR.
- 19) PIPE BEDDING AND BACKFILL SHALL BE CAREFULLY CONTROLLED AT THE DISCRETION OF THE UTILITIES INSPECTOR.

CITY OF CLEMSON STANDARD CONSTRUCTION DETAILS SANITARY SEWER SPECIFICATIONS

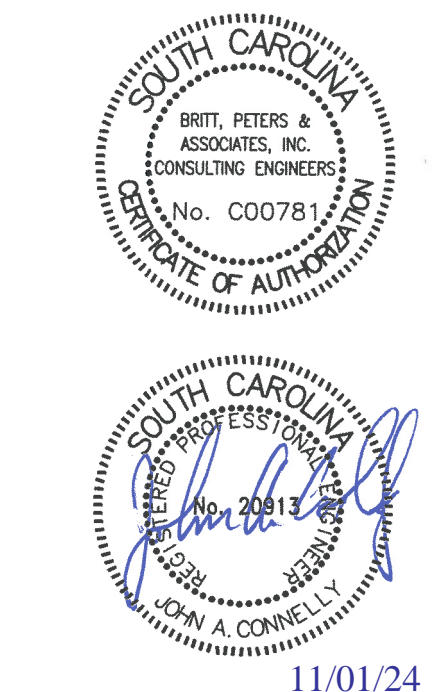
1 OF 2
SCALE: N.T.S.
VERSION: 1.0
2/21/2024

CITY OF CLEMSON - SANITARY SEWER SPECIFICATIONS (CONDENSED)

- 20) ALL NEWLY CONSTRUCTED SANITARY SEWER LINES WILL BE LOW PRESSURE AIR TESTED TO ASTM F1417 AND UNIL B-8-90 STANDARDS AND MANHOLE TESTED.
- 21) THE CONTRACTOR SHALL PROVIDE CITY OF CLEMSON APPROVED, STANDARD PRE-CAST MANHOLES AT ALL BENDS AND CHANGES IN GRADE OF SANITARY SEWER LINES AND CONNECTIONS TO PRE-EXISTING SANITARY SEWER LINES.
- 22) ALL NEWLY CONSTRUCTED MANHOLES SHALL BE VACUUM TESTED TO ASTM C1244 STANDARDS.
- 23) REINFORCED PRE-CAST MANHOLES WITH FORMED INVERTS SHALL BE USED UNLESS OTHERWISE APPROVED BY THE CITY OF CLEMSON.
- 24) ALL CONNECTIONS TO MANHOLES WILL REQUIRE A RUBBER PIPE BOOT AND PIPE STRAP FOR THE CORRESPONDING PIPE SIZE.
- 25) IN CERTAIN WET OR OTHER CIRCUMSTANCES A SEAL COATING (SPECIFIED BY THE CITY OF CLEMSON) MAY BE REQUIRED FOR THE INTERIOR AND/OR EXTERIOR WALLS IF DEEMED NECESSARY THE CITY ENGINEER, UTILITIES DIRECTOR OR UTILITIES INSPECTOR.
- 26) IF A MANHOLE INVERT MUST BE POURED IN A MANHOLE THE BENCH MAY CONTAIN CONCRETE BRICKS IN A STANDARD CONCRETE MIX.
- 27) REINFORCED RISER RINGS SHALL BE USED FOR FINAL RING ADJUSTMENT TO SURFACE. THE SUM OF MULTIPLE RINGS SHALL NOT EXCEED 12 INCHES. A STANDARD MANHOLE PRE-CAST RISER SECTION WITH A STEP SHALL BE USED IN LIEU OF ADDITIONAL RISER RINGS.
- 28) ALL STEPS SHALL BE PLASTIC/RUBBER COATED STEEL AT 16" O.C. NO MANHOLE SHALL REQUIRE ENTRY WITHOUT ACCESS TO A STEP IN EXCESS OF 18 INCHES.
- 29) THE CONTRACTOR IS RESPONSIBLE FOR RAISING FINAL RIM ELEVATION EQUAL TO ROADWAY ELEVATION OR FINISH GRADE FOR MANHOLES WITHIN TRAVEL LANES.
- 30) THE CONTRACTOR IS RESPONSIBLE FOR RAISING FINAL RIM ELEVATION TO 1 FOOT ABOVE FINISH GRADE FOR MANHOLES LOCATED IN BACK EASEMENTS AND RAISING FINAL RIM ELEVATIONS TO 1 FOOT ABOVE FLOOD PLAIN ELEVATION IF LOCATED WITHIN A FLOOD PLAIN.
- 31) A MAXIMUM OF 18 INCHES IS ALLOWED BETWEEN THE INVERT ELEVATIONS OF THE ENTRANCE AND EXIT OF SEWAGE (SLIDE) BEFORE AN OUTSIDE DROP IS REQUIRED.
- 32) DROP MANHOLES WILL REQUIRE AND OUTSIDE ALL DUCTILE IRON DROP (PROTECTO 401TM COATED) AND SHALL BE COMPLETELY ENCASED IN STANDARD CONCRETE MIX.
- 33) ALL MANHOLE RING & COVERS SHALL BE TRAFFIC DUTY RATED REGARDLESS OF LOCATION AND WEIGHT APPROXIMATELY 200 POUNDS & 12 POUNDS, RESPECTIVELY. ALL COVERS SHALL BE VENTED UNLESS OTHERWISE SPECIFIED. ALL MANHOLES LOCATED WITHIN A FLOOD PLAIN SHALL ALSO HAVE BOLTED RING & COVER.
- 34) THE CITY OF CLEMSON PREFERS SERVICE CONNECTIONS AT THE MANHOLE. CONNECTIONS TO SEWER MAINS SHALL REQUIRE PRIOR APPROVAL BY THE CITY OF CLEMSON UTILITIES DEPARTMENT.
- 35) SERVICE LATERALS SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE OR SCHEDULE 40 PVC PIPE TO THE PROPERTY LINE WITH A CLEANOUT AND CLEARLY MARKED IF NOT PLACED INTO IMMEDIATE USE. ADDITIONAL CLEANOUTS ARE REQUIRED EVERY 75 LINEAR FEET AND ANY BENDS GREATER THAN 45 DEGREES.
- 36) CONCRETE COLLARS OR CAST IRON TRAFFIC DUTY 107 BOXES ARE TO BE USED TO PROTECT AND IDENTIFY ALL CLEANOUTS. ALL CLEANOUTS SHALL BE SUFFICIENTLY RECESSED IN ORDER TO PROTECT THE CLEANOUT FROM DAMAGE.

CITY OF CLEMSON STANDARD CONSTRUCTION DETAILS SANITARY SEWER SPECIFICATIONS

2 OF 2
SCALE: N.T.S.
VERSION: 1.0
4/21/2023



REVISIONS:	NO.	DATE	DESCRIPTION
	0	11/01/2024	100% SET



DRAINAGE SCHEDULE

SYMBOL	DESCRIPTION	QTY	DETAIL
(L-01)	AREA DRAIN	1	2/SK9.0
(L-02)	4" SDR 35 DRAIN LINE	65 LF	

ROUGH GRADING LEGEND

- ← TRANSITION ZONE FROM ONE ELEVATED PAD TO THE NEXT. THESE SHOULD BE FULLY COMPACTED. SPOHN RANCH TO FINE GRADE / SHAPE THE FEATURE PROFILES IN THESE AREAS.
- ← PERIMETER BERMING - 3:1 SLOPES UNLESS OTHERWISE NOTED ON PLANS
- HATCHED AREAS - PAD AREAS TO BE ROUGH GRADED. FEATURES WITHIN THESE PAD AREAS WILL BE SHAPED WITH EXCESS CUT MATERIAL GENERATED FROM TRANSITION ZONE EXCAVATION.

- RG ROUGH FINISH GRADE
- BS BOTTOM OF STEP
- FG FINISH GRADE
- FS FINISH SURFACE
- HP HIGH POINT
- INV INVERT ELEVATION
- PA PLANTING AREA
- TD TOP OF DRAIN
- TL TOP OF LEDGE
- TP TOP OF PAD
- TR TOP OF RAIL
- TS TOP OF STEP

- - - - - EXISTING CONTOURS
- — — — — PROPOSED CONTOURS
- GB — GB — PROPOSED GRADE BREAK
- XXX.XX RG PROPOSED ROUGH GRADE ELEV.
- PROPOSED FLOW DIRECTION

RG = FS - CONCRETE THICKNESS (5") - BASE THICKNESS (4")

SEQUENCE OF CONSTRUCTION

GC: General Contractor | SR: Spohn Ranch

1. Prepare site as per soils report recommendations (GC)
2. Drain-line stub outs (GC)
3. Material Import and placement as needed (GC)
4. Compacted rough grade as per this sheet (GC)
NOTE: Coordinate skatepark site prep with skatepark contractor's mobilization date. Site prep shall be completed no more than 7 days prior to SR's arrival at the site.
5. Fine Grading & Feature Shaping (SR)
6. Bowl Excavation & Shaping (SR)
7. Export cut material generated by Spohn's fine grading & bowl excavation (GC)
8. Specialty Steel Fab + Install (SR)
9. Form, Reinforce, Place and Finish Poured-in-Place Concrete Skate Features (SR)
10. Place and Compact Base Course (SR)
NOTE: GC to provide material stock-pile adjacent to skatepark footprint
11. Form, Reinforce, Place and Finish Poured-in-Place Concrete Flatwork (SR)
12. Drain Body Supply & Install (SR) GC to have drains stubbed out
13. Jointing and Sealing Skatepark Concrete (SR)
14. Fine Grade Skatepark Perimeter and Disturbed areas (SR)
15. Topsoil, landscaping, irrigation and site restoration (GC)
16. Rules sign supply & install (GC)
17. Paving outside of skatepark footprint (GC)

EARTHWORK NOTES

1. COMPACT THE EXPOSED SUBGRADE ACROSS THE SITE TO ESTABLISH A FIRM AND UNYIELDING SURFACE. UNDER SUPERVISION OF CITY PROVIDED GEOTECHNICAL ENGINEER, PROOF-ROLL EXPOSED SUBGRADES WITH CONSTRUCTION EQUIPMENT TO ASSIST IN THE EVALUATION OF THE SUBGRADES ACROSS THE SITE. IF UNSTABLE AREAS ARE DETECTED, AN INITIAL ATTEMPT SHOULD BE MADE TO AERATE (12 INCHES MIN.) AND DENSIFY THE SUBGRADE BY RECOMPACTION WHERE NATURAL MOISTURE CONTENTS ARE AT APPROPRIATE LEVELS. IF THIS PROCEDURE IS INEFFECTIVE, THE DISTURBED SOILS SHOULD BE UNDERCUT AND REPLACED WITH CLEAN FILL AND/OR STABILIZING MATERIALS. COMPACT TO AT LEAST 90% OF THE MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D698 STANDARD PROCTOR METHOD. FILL AND CONSOLIDATE DEPRESSED AREAS. A FIRM, NON-YIELDING SUBGRADE SHOULD BE ESTABLISHED PRIOR TO PROCEEDING WITH FILL PLACEMENT.
2. SOIL COMPACTION SHALL BE ACHIEVED BY MEANS OF PNEUMATIC TIRE ROLLERS, HOE PACKS, RIDE-ON DRUM ROLLER OR OTHER MECHANICAL TAMPERS (PLATE, RAMMER, OR WALK BEHIND ROLLER).
3. PROVIDE STRUCTURAL FILL AS REQUIRED TO MEET PROPOSED SUBGRADE ELEVATIONS IN ACCORDANCE WITH GRADING PLAN.
4. BUILD UP SUBGRADE USING STOCKPILED MATERIAL AND/OR APPROVED MATERIAL WITH LOW PLASTICITY. THE FILL SHOULD BE PLACED IN LIFTS THIN ENOUGH TO ATTAIN THE SPECIFIED COMPACTION LEVEL THROUGHOUT THE ENTIRE LIFT THICKNESS. PRIOR TO COMPACTION, MOISTURE CONDITION AS NEEDED. COMPACT EACH LIFT TO AT LEAST 90 PERCENT OF ASTM D698.
5. EXCAVATION AND COMPACTION OF FILL SHALL EXTEND TO MINIMUM 2 FEET BEYOND SKATE PARK FOOTPRINT.

GENERAL CONTRACTOR TO PROVIDE:

1. Construction Entrance, Fencing & Site Security
2. Unobstructed site access, suitable in Spohn's judgement, for tractor trailers and concrete trucks to chute-deliver concrete directly at skatepark footprint
3. Erosion and sediment control for overall project site which will include skatepark site
4. Temporary access to restroom, water source, power source and dumpster within 150' of skatepark footprint
NOTE: Concrete washout will be placed in dumpster upon completion of the concrete scope
NOTE: Potable water delivered via 3/4" garden hose at 45 psi minimum
NOTE: Power need is 2-4 outlets (110v). If power is not within 150', a 20amp / 110v generator will work
NOTE: Dumpster to be 20-yard, capable of taking construction debris, concrete chunks, sod, etc.
5. Protection of existing infrastructure within overall project footprint
6. Joints for paving abutting concrete placed by Spohn Ranch



Scale: 1" = 10'-0"

SPOHN RANCH SKATE PARKS
DESIGN. BUILD. COME TOGETHER.
6824 S. CENTINELA AVE. - LOS ANGELES, CA 90029
OFFICE (626) 330-5803 - FAX (626) 330-5803

SR

NO	DATE	DESCRIPTION

SKATE PARK DESIGNED BY: STAMP: CW

DOCUMENTS BY: DM / AL

PLAN CHECKED BY: DH

DATE: 8/16/2024

CLEMSON PARK SKATEPARK

ROUGH GRADING + DRAINAGE PLAN

PROJECT TITLE

SHEET TITLE

SHEET

SK6.0

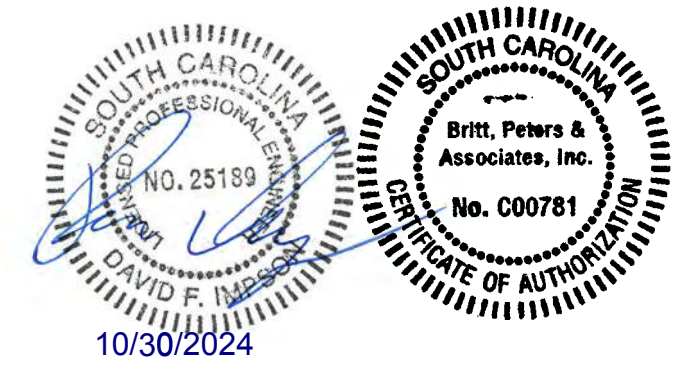
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NOTICE

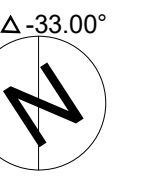
NOTE REGARDING EXISTING CONSTRUCTION
THE CONTRACTOR SHALL VERIFY THAT ALL STRUCTURAL COMPONENTS SHOWN ON THESE DRAWINGS ARE ACCURATE IN REPRESENTING WHAT IS CURRENTLY BUILT. THE CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER OF RECORD IF ANY AS-BUILT CONDITION DIFFERS FROM WHAT IS DEPICTED ON THESE DOCUMENTS.

Client
City of Clemson
1250 Tiger Blvd
CLEMSON, SC 29631

Consultants
Britt Peters & Associates, Inc.
101 Falls Park Dr #601
Greenville, SC 29601
864.271.8869
www.website.com



Keyplan



4	10/30/2024	100% CONSTRUCTION DOCUMENTS
3	10/01/2024	90% CONSTRUCTION DOCUMENTS
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CLEMSON CITY PARK
CLEMSON,
SOUTH CAROLINA

Project Number: 21017.01
Status & Date: 4
8/16/2024

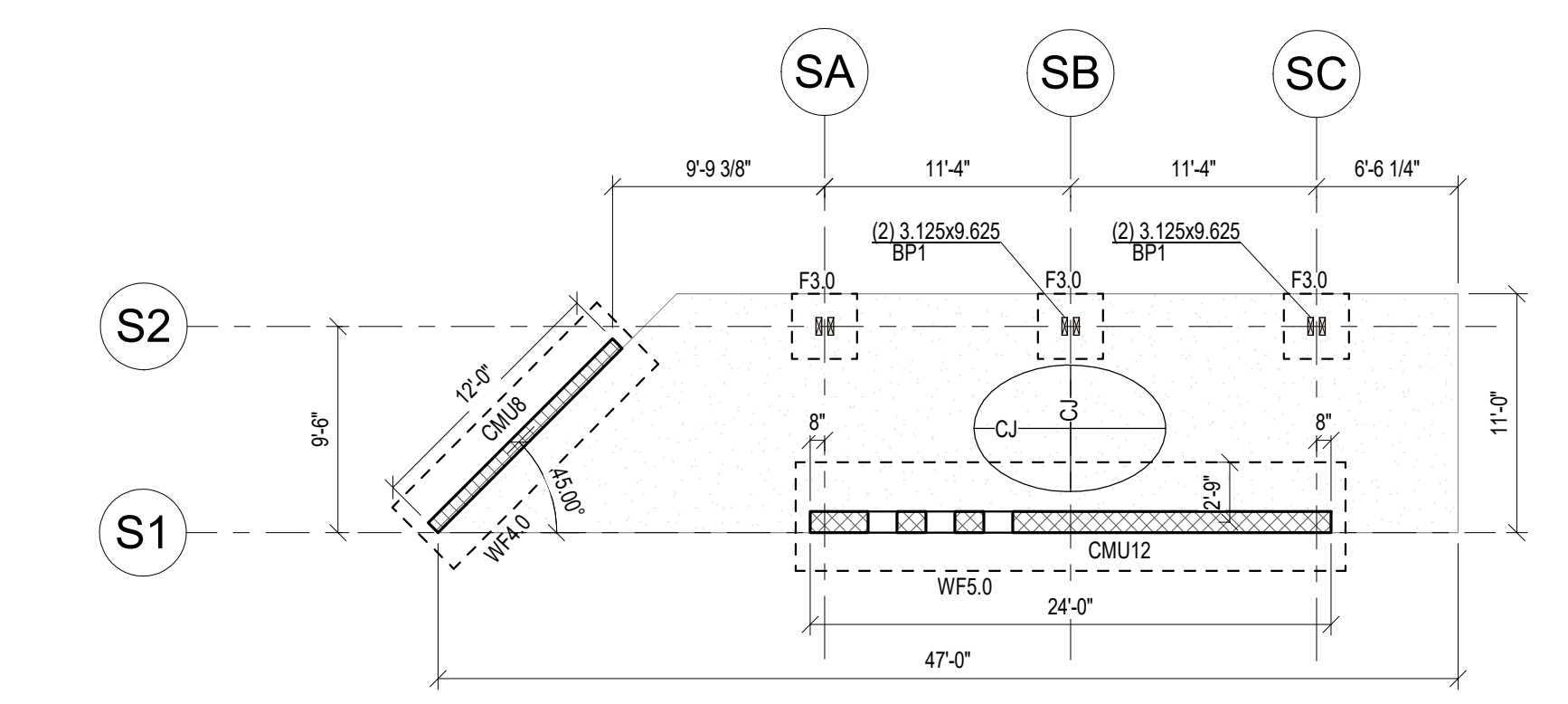
Sheet Title:
FOUNDATION PLAN

Sheet Number:

S101



1 MAIN BUILDING - FOUNDATION PLAN
1/8" = 1'-0"



2 SHADE - FOUNDATION PLAN
1/8" = 1'-0"

FOUNDATION PLAN NOTES

- ELEVATIONS BASED ON TOP OF SLAB (TSLAB) = 0'-0". COORDINATE WITH CIVIL AND ARCH.
- TOP OF FOOTING (TFTG) = -2'-0" UND.
- ALL STEEL THAT IS PERMANENTLY EXPOSED TO THE EXTERIOR SHALL BE HOT-DIPPED GALVANIZED UNO.
- CONTRACTOR TO VERIFY ALL SLAB EDGE, STAIR, AND ELEVATOR OPENING DIMENSIONS WITH ARCH DRAWINGS PRIOR TO CONSTRUCTION.
- REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR SLAB PENETRATIONS AND UNDERGROUND UTILITIES.
- CONTRACTOR TO COORDINATE REQUIRED FOOTING STEPS WITH FINAL CIVIL GRADING PLAN AND ROOF DRAINS.
- CONTRACTOR TO VERIFY ROUGH OPENING DIMENSIONS FOR ELEVATOR OPENINGS WITH SUPPLIER PRIOR TO SHAFT CONSTRUCTION.
- COORDINATE ALL SLOPED SLAB AND RECESSED AREAS WITH ARCHITECTURAL DRAWINGS.
- CONTRACTOR TO COORDINATE FOOTING STEPS WITH FINAL CIVIL GRADING PLAN, ROOF DRAIN PIPE LOCATIONS, AND ANY STEPS REQUIRED FOR UTILITIES INTERFERING WITH FOOTINGS.

FOUNDATION PLAN LEGEND

- ### DENOTES SHEET NOTE, REF SCHEDULE THIS SHEET
- F#.# DENOTES FOOTING (F), REF SCHEDULE ON SHEET S102
- WF#.# & TS#.# DENOTES WALL FOOTING (WF) OR THICKENED SLAB (TS), REF SCHEDULE THIS SHEET
- CMU#.# DENOTES CMU WALL, FOR RECESSED 6" CMU LOCATIONS REF ARCH
- (E) DENOTES EXISTING BUILDING ELEMENT, FIELD VERIFY
- BP# DENOTES COLUMN BASE PLATE, REF SCHEDULE ON SHEET S301
- CJ DENOTES SLAB CONTROL JOINT OR CONSTRUCTION JOINT. JOINT SHALL BE PLACED AT 10 FEET OC MAX. SLAB UNITS CREATED BY JOINT LAYOUTS SHALL BE AS SQUARE AS POSSIBLE AND WITH A MAXIMUM ASPECT RATIO OF 1.25 TO 1. IN ADDITION, CONTROL JOINTS SHALL BE LOCATED AT THE CORNERS OF ALL ISOLATION POCKETS. REF TYPICAL DETAILS.

SHEET NOTE SCHEDULE - FOUNDATION PLAN		###
REF PLANS AND DETAILS FOR SHEET NOTES REQUIRED, NOT ALL NOTES APPLICABLE TO THIS SHEET		
MARK	DESCRIPTION	
1.01	4" CONCRETE SLAB REINF W/ 6x6-W1.4xW1.4 WWR ON 10 MIL VAPOR RETARDER ON 4" GRANULAR BASE ON PREPARED SUBGRADE	
1.02	FIELD VERIFY EXISTING FOOTING SIZE AND REPORT TO EOR BEFORE CONSTRUCTING WALLS	
1.03	FOR RECESSED 6" CMU LOCATION AND ELEVATION, REF ARCH	
1.04	CONCRETE SLAB REFER TO CIVIL AND LANDSCAPE	

FOUNDATION SCHEDULE - FOOTINGS (F)								
MARK	WIDTH "W"	LENGTH "L"	THICKNESS "T"	REINFORCING				REMARKS
				LONG	SHORT	LONG	SHORT	
F3.0	3'-0"	3'-0"	1'-0"	(4) #4	(4) #4	(4) #4	(4) #4	

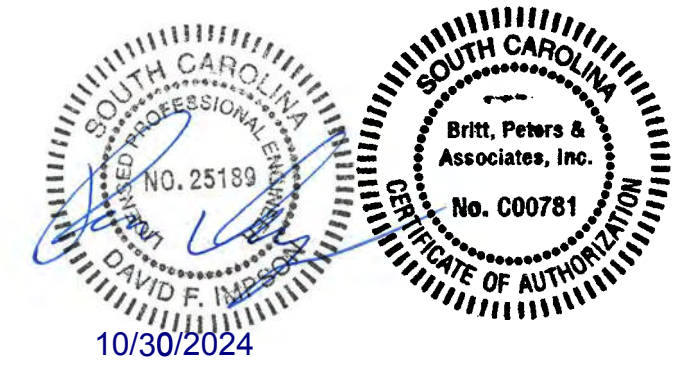
FOUNDATION SCHEDULE - WALL FOOTINGS (WF)								
MARK	DIMENSIONS		THICKNESS	REINFORCING				REMARKS
	W"	L"		LONG	SHORT	LONG	SHORT	
WF2.0	2'-0"	1'-4"	1'-4"	(3) #5	#5 @ 12" OC	(3) #5	#5 @ 12" OC	
WF4.0	4'-0"	1'-2"	1'-2"	#5 @ 8" OC	#5 @ 8" OC	#5 @ 12" OC	#5 @ 12" OC	
WF5.0	5'-0"	1'-4"	1'-4"	#6 @ 16" OC	#6 @ 16" OC	#5 @ 12" OC	#5 @ 12" OC	

CMU WALL SCHEDULE		
MARK	WALL REINFORCING VERTICAL	REMARKS
CMU4	#4 @ 24" OC	
CMU8	#5 @ 24" OC	8" CMU WALL RECESSED TO 6" CMU USES THE SAME REINFORCEMENT
CMU8/6	#4 @ 24" OC	CENTER REINF IN 6" SECTION; NOTE REINF WILL BE OFFSET IN 8" CMU
CMU12	#5 @ 8" OC	

NOTE REGARDING EXISTING CONSTRUCTION
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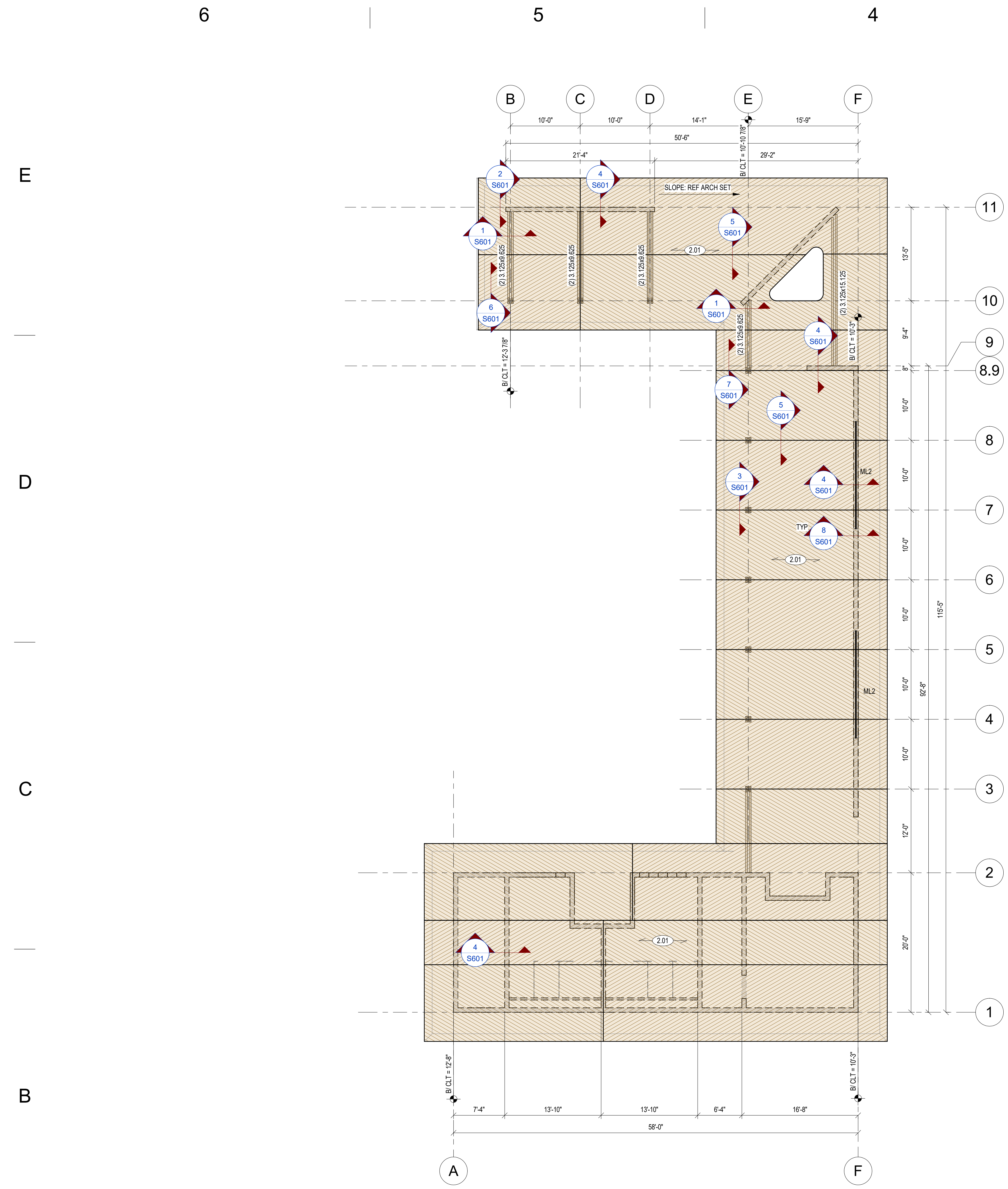
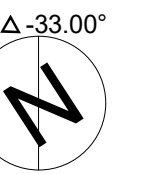
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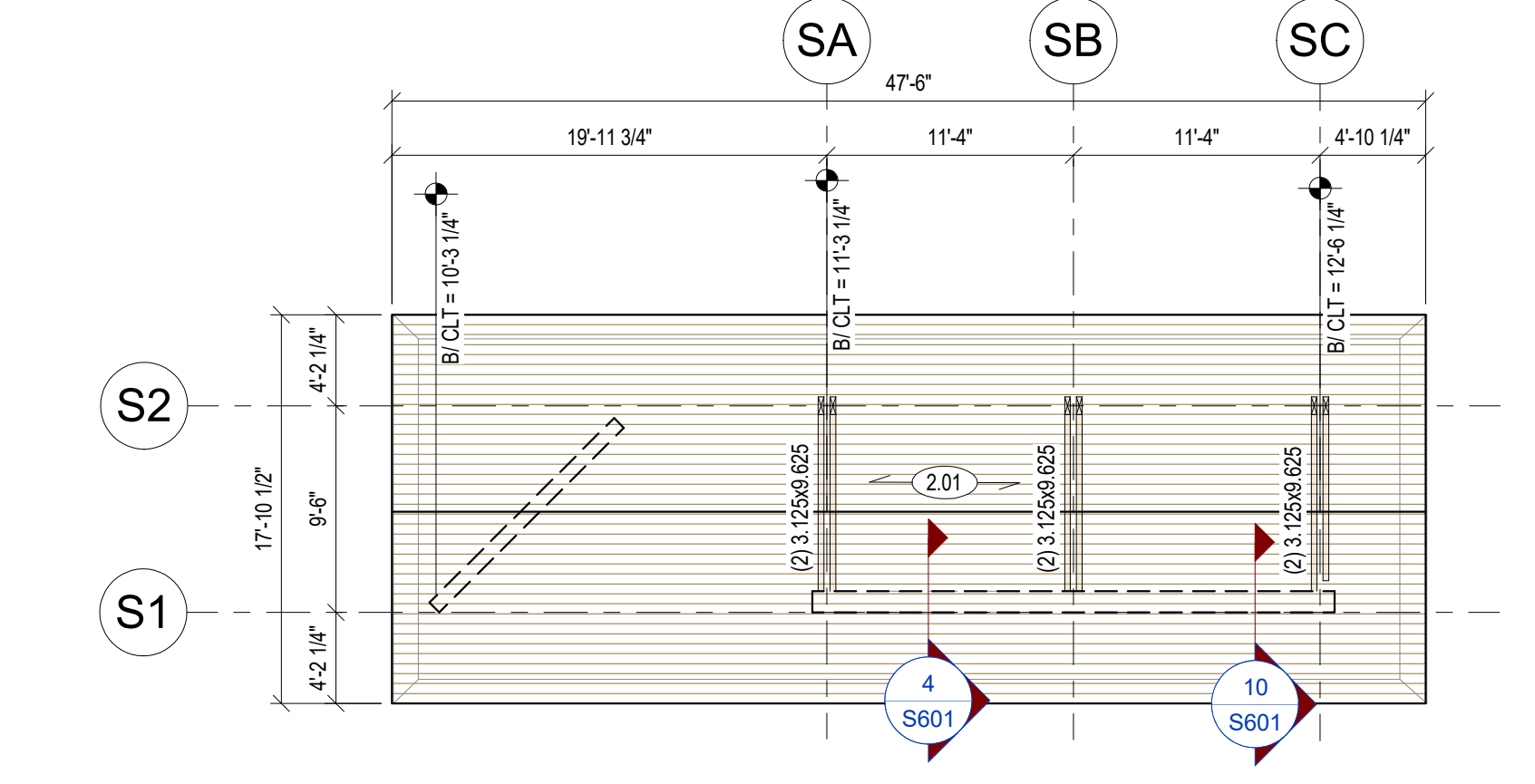


Keyplan

4	10/30/2024	100% CONSTRUCTION DOCUMENTS
3	10/01/2024	90% CONSTRUCTION DOCUMENTS
2	09/13/2024	100% CONSTRUCTION DOCUMENTS
1	08/16/2024	50% CONSTRUCTION DOCUMENTS



1 MAIN BUILDING - ROOF FRAMING PLAN
1/8" = 1'-0"



2 SHADE - ROOF FRAMING PLAN
1/8" = 1'-0"

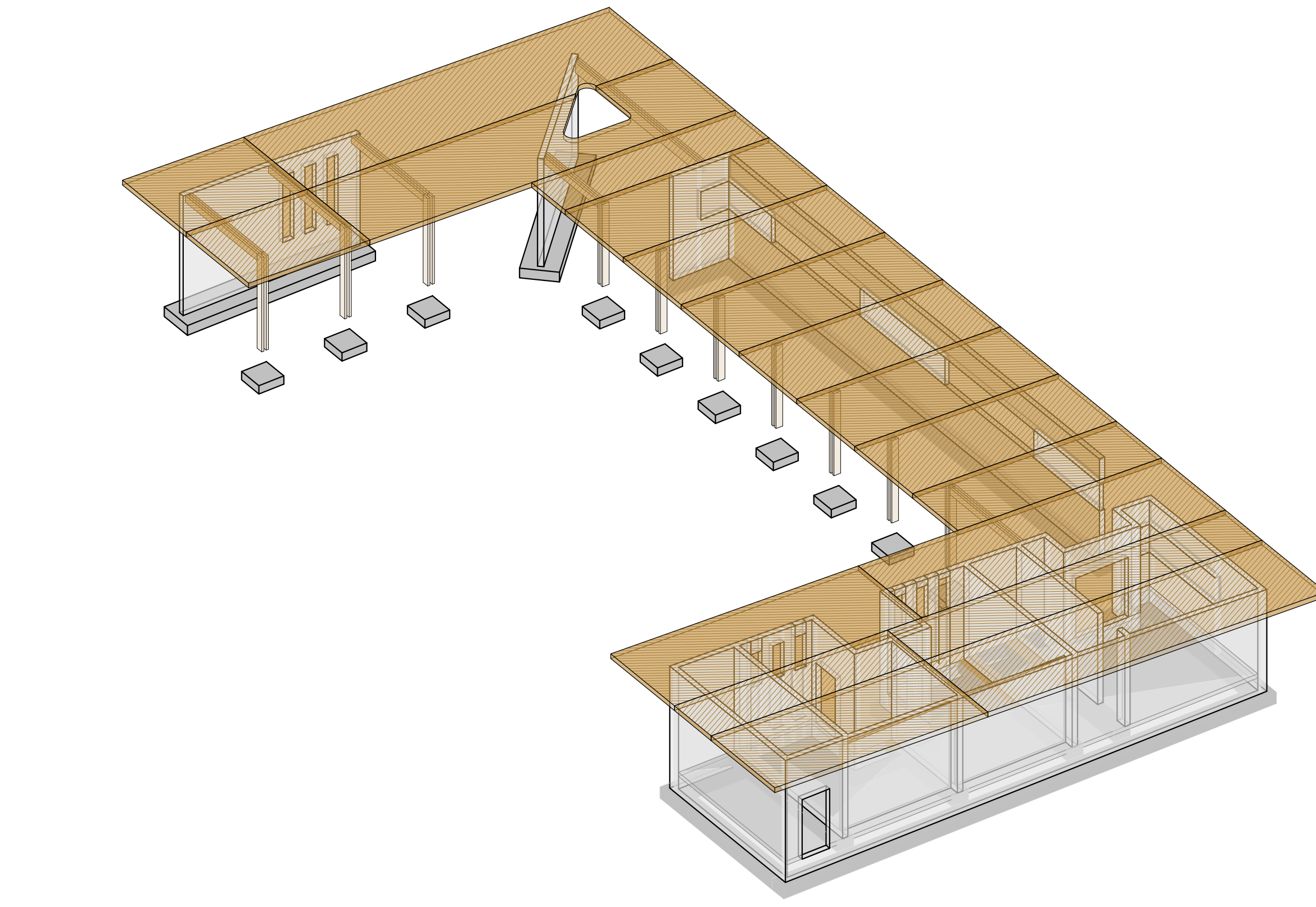
ROOF FRAMING PLAN NOTES

- REF PLAN FOR BOTTOM OF DECK (B/DECK), COORD W/ ARCH.
- ALL WOOD THAT IS PERMANENTLY EXPOSED TO THE EXTERIOR SHALL BE PRESERVATIVE-TREATED UNDO.
- ALL STEEL THAT IS PERMANENTLY EXPOSED TO THE EXTERIOR SHALL BE HOT-DIPPED GALVANIZED UNDO.

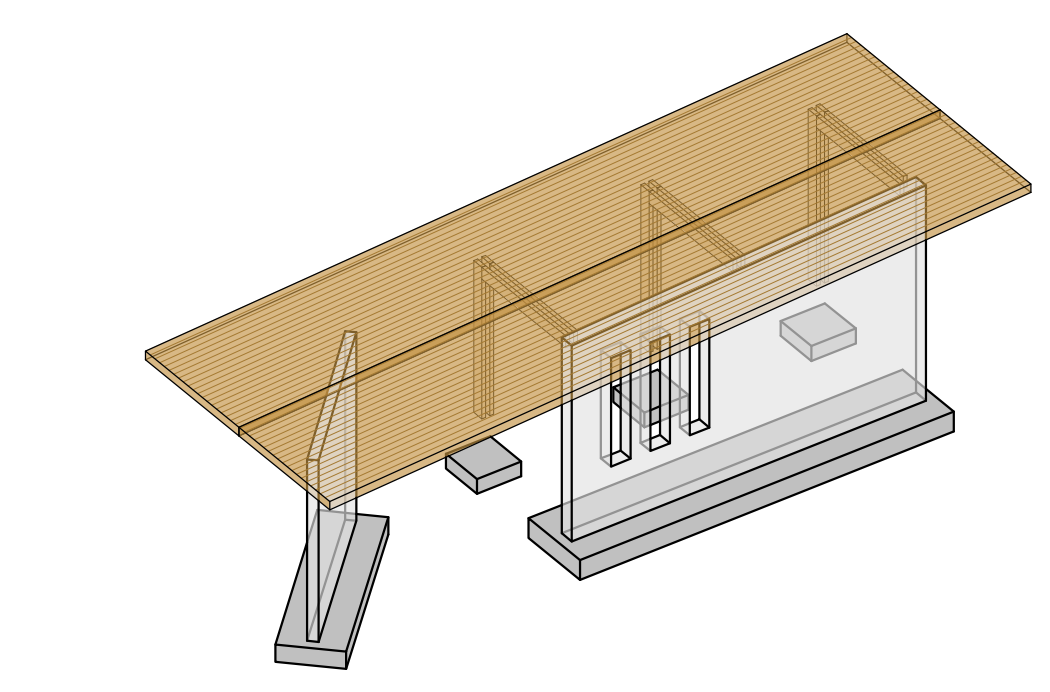
ROOF FRAMING PLAN LEGEND

- ### DENOTES SHEET NOTE, REF SCHEDULE THIS SHEET
- DENOTES DECK SPAN DIRECTION
- H# DENOTES WOOD HEADER/ BEAM, REF SCHEDULE THIS SHEET

SHEET NOTE SCHEDULE - ROOF FRAMING...		#.#
REF PLANS AND DETAILS FOR SHEET NOTES REQUIRED. NOT ALL NOTES APPLICABLE TO THIS SHEET		
MARK	DESCRIPTION	
2.01	5 PLY V3 GRADE CLT	



3 MAIN ROOF ISO



4 SHADE ROOF ISO

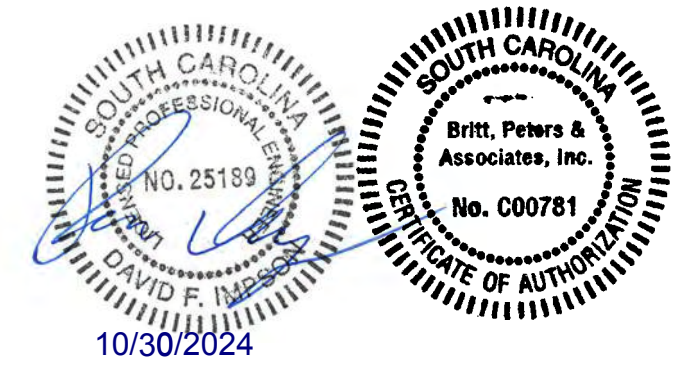
CLEMSON CITY PARK
CLEMSON, SOUTH CAROLINA

Project Number: 21017.01
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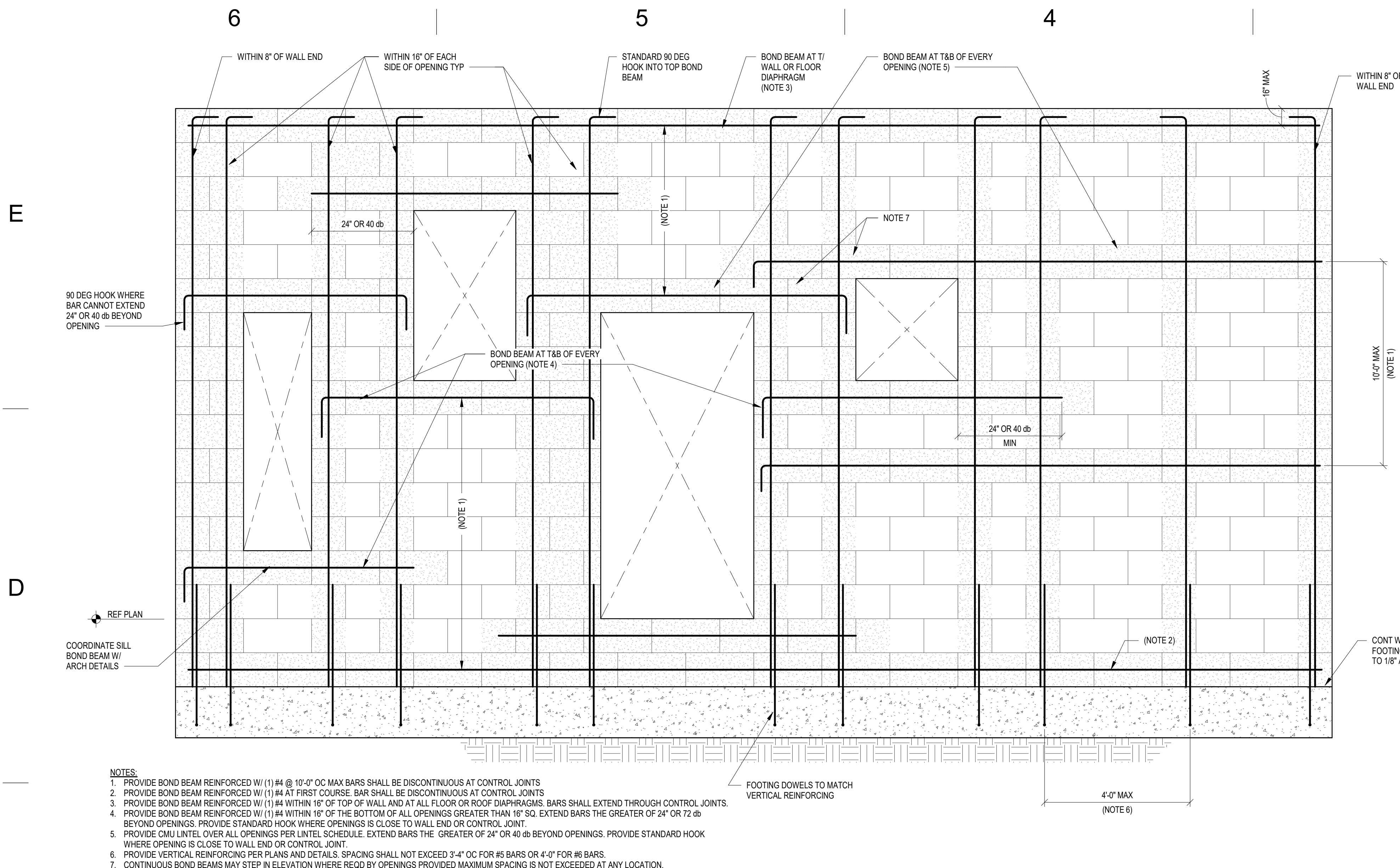
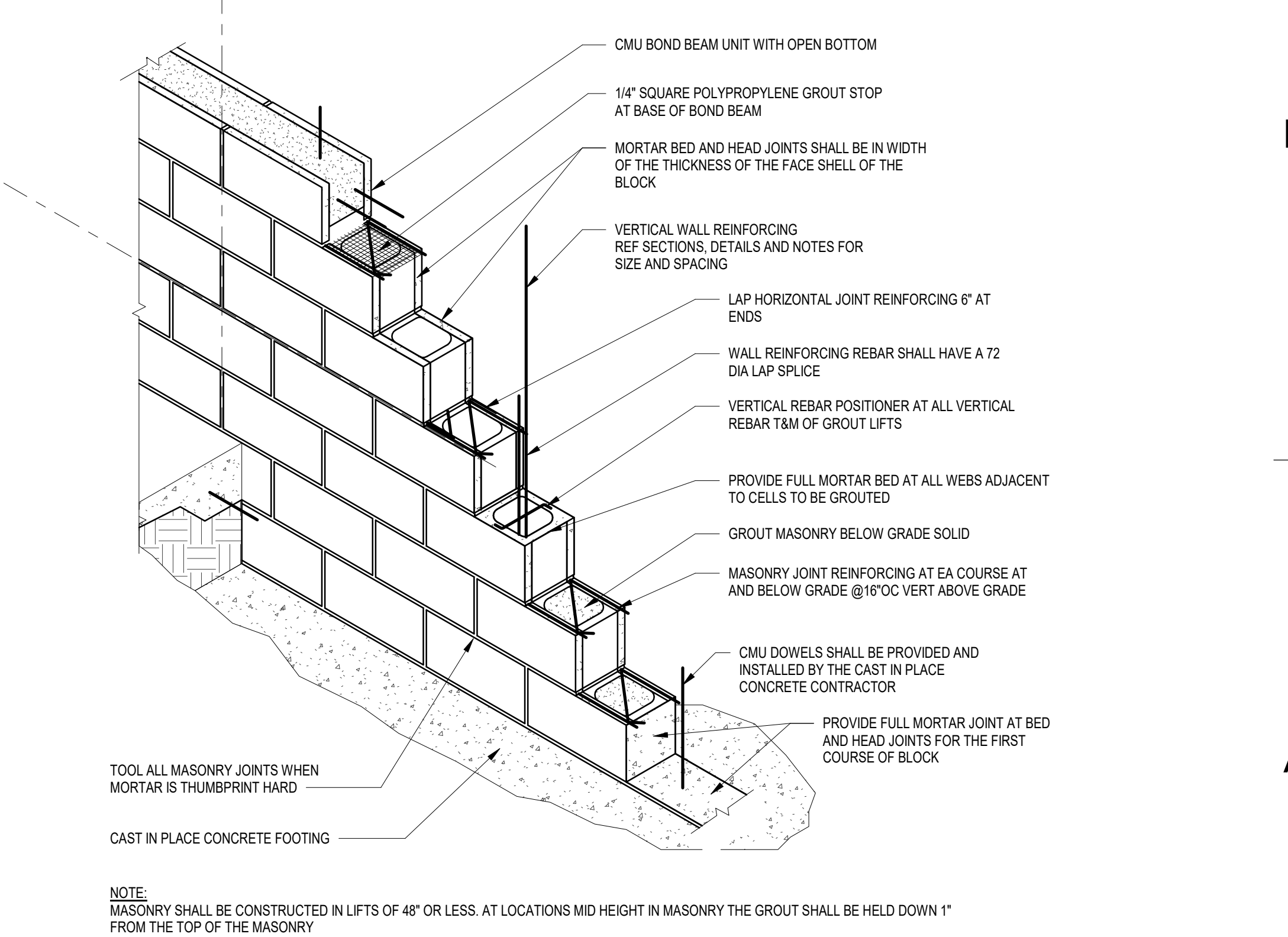
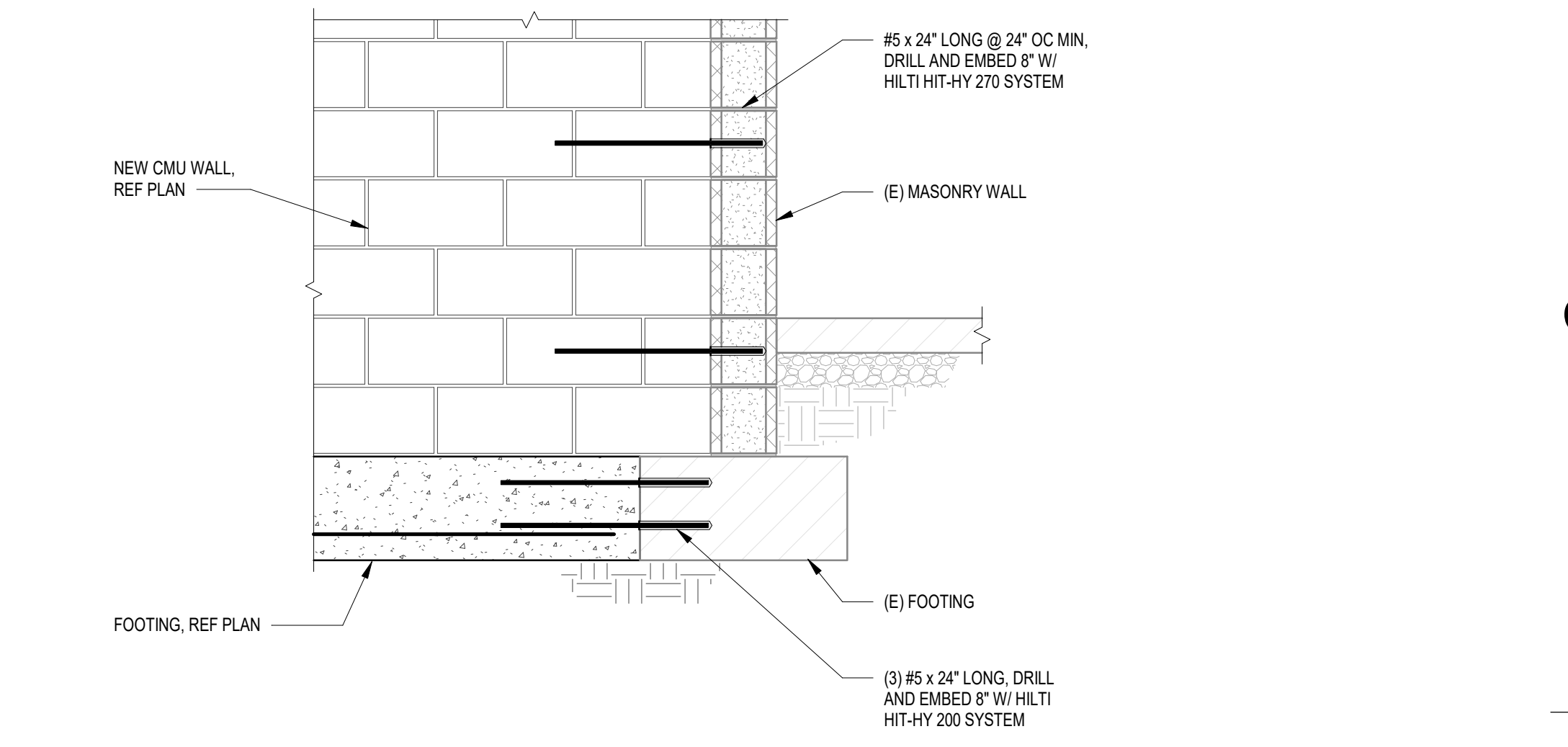
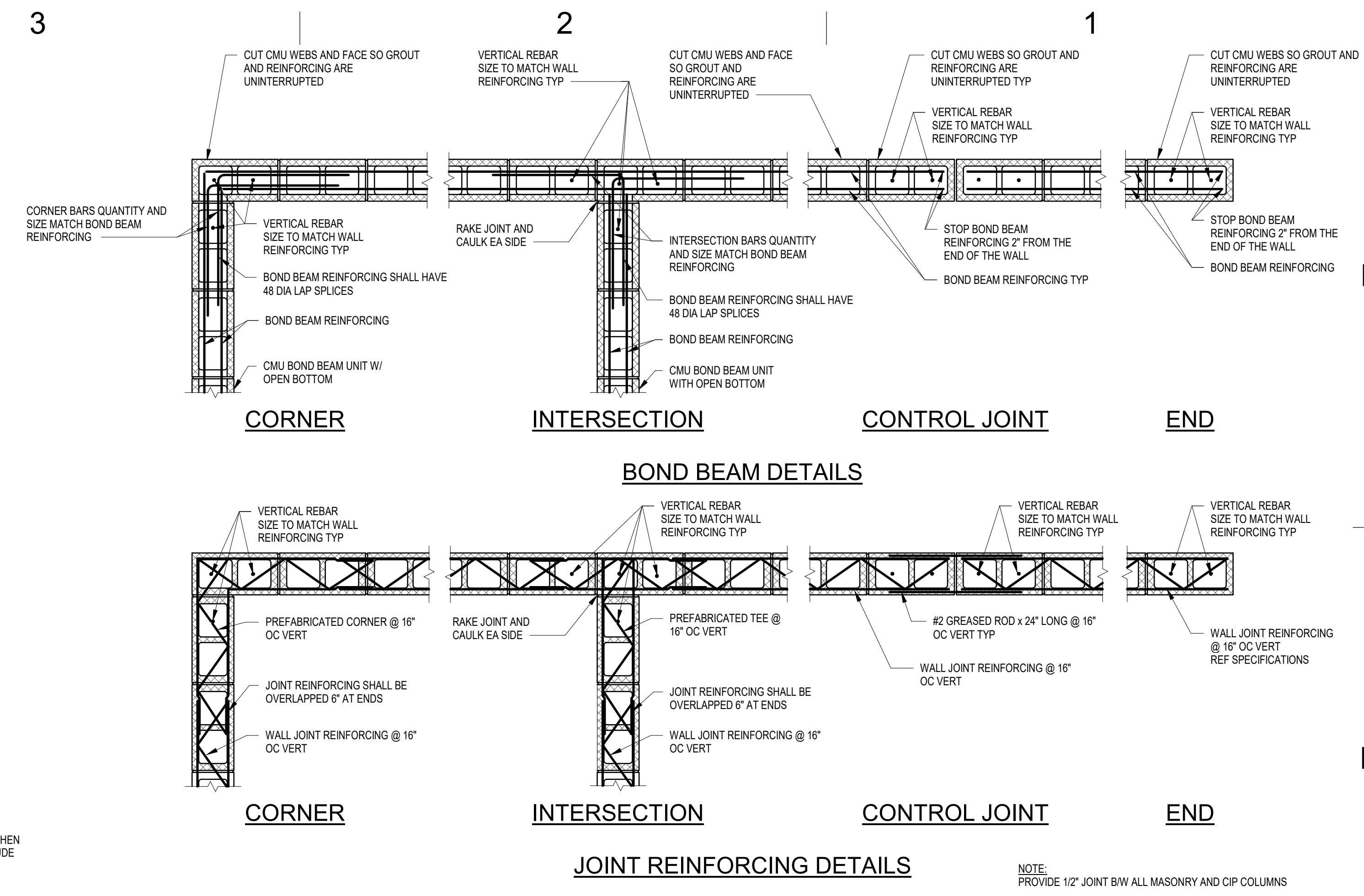
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A ROOF FRAMING PLAN

Sheet Number:

S102

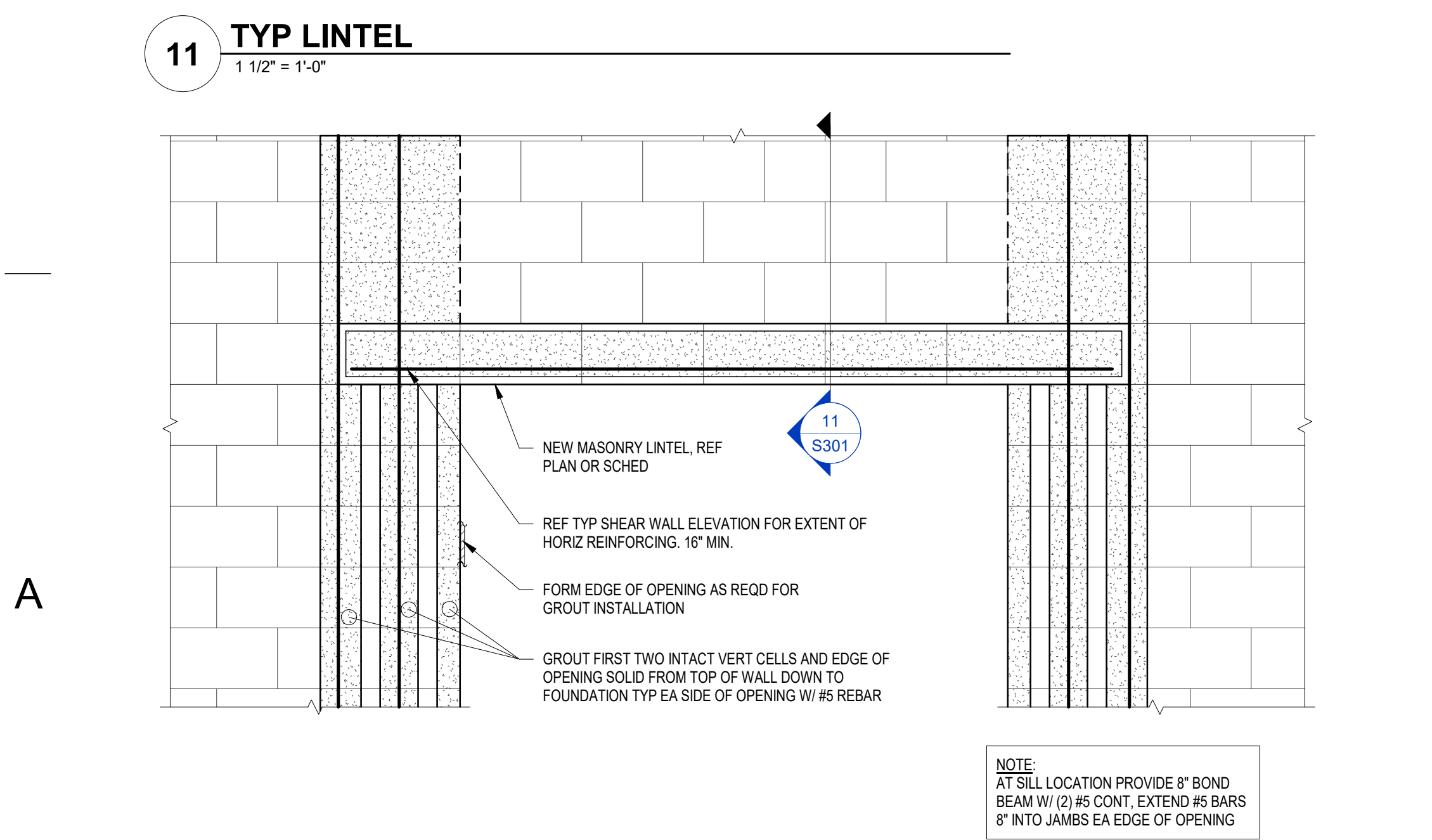
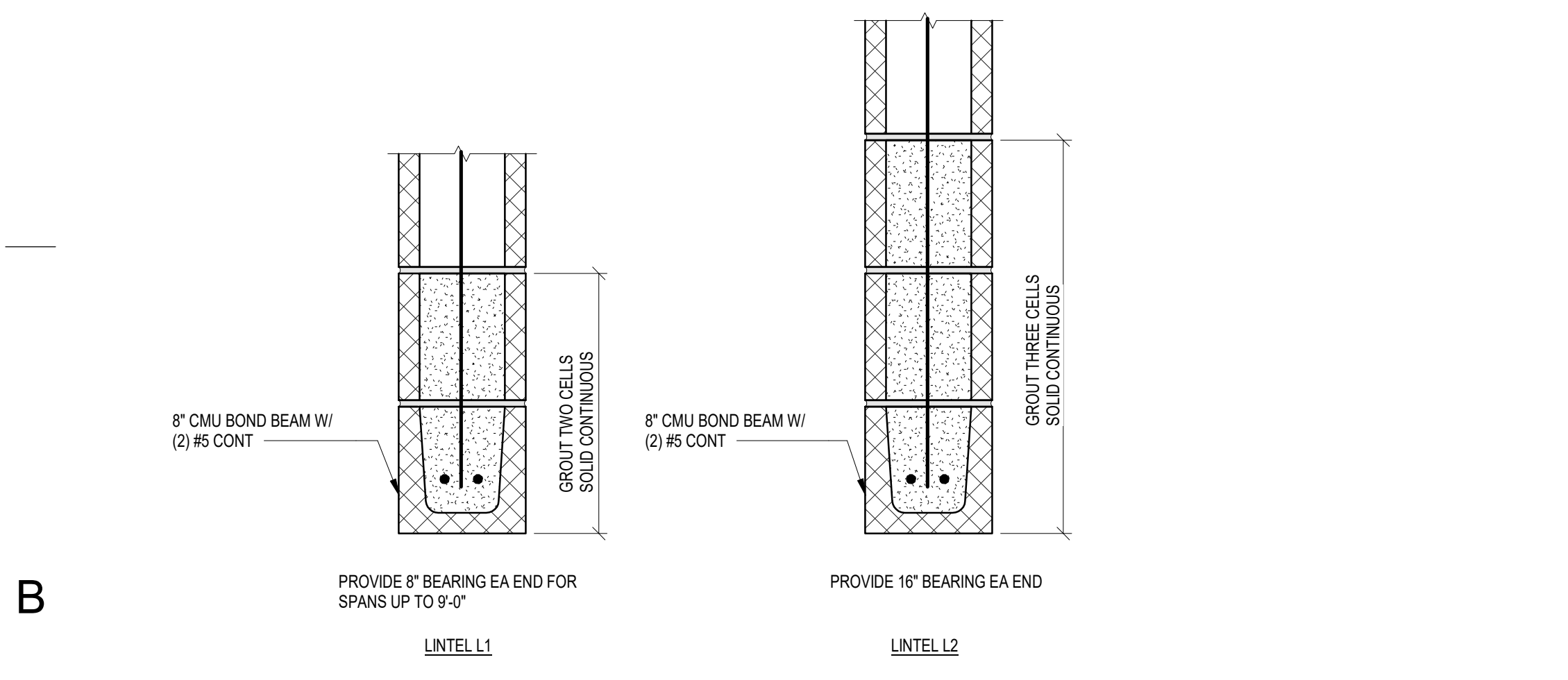


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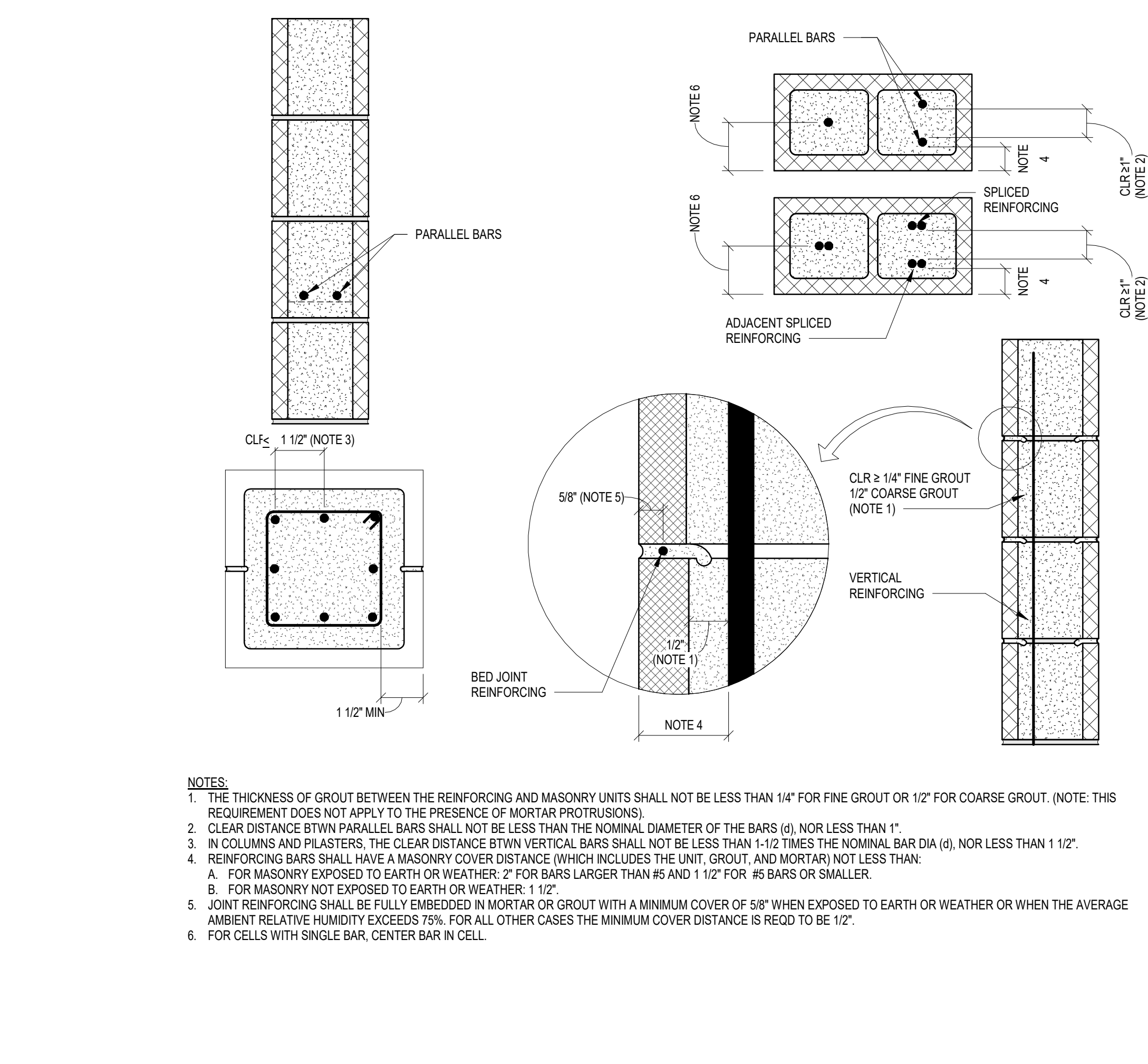


- NOTES:**
1. PROVIDE BOND BEAM REINFORCED W/ (1) #4 @ 10'-0" OC MAX BARS SHALL BE DISCONTINUOUS AT CONTROL JOINTS
 2. PROVIDE BOND BEAM REINFORCED W/ (1) #4 AT FIRST COURSE. BAR SHALL BE DISCONTINUOUS AT CONTROL JOINTS
 3. PROVIDE BOND BEAM REINFORCED W/ (1) #4 WITHIN 16" OF TOP OF WALL AND AT ALL FLOOR OR ROOF DIAPHRAGMS. BARS SHALL EXTEND THROUGH CONTROL JOINTS.
 4. PROVIDE BOND BEAM REINFORCED W/ (1) #4 WITHIN 16" OF THE BOTTOM OF ALL OPENINGS GREATER THAN 18" SO. EXTEND BARS THE GREATER OF 24" OR 72" BEYOND OPENINGS. PROVIDE STANDARD HOOK WHERE OPENINGS IS CLOSE TO WALL END OR CONTROL JOINT.
 5. PROVIDE CMU LINTEL OVER ALL OPENINGS PER UNTEL SCHEDULE. EXTEND BARS THE GREATER OF 24" OR 40 db BEYOND OPENINGS. PROVIDE STANDARD HOOK WHERE OPENING IS CLOSE TO WALL END OR CONTROL JOINT.
 6. PROVIDE VERTICAL REINFORCING PER PLANS AND DETAILS. SPACING SHALL NOT EXCEED 3'-4" OC FOR #5 BARS OR 4'-0" FOR #6 BARS.
 7. CONTINUOUS BOND BEAMS MAY STEP IN ELEVATION WHERE REQ'D BY OPENINGS PROVIDED MAXIMUM SPACING IS NOT EXCEEDED AT ANY LOCATION.

1 MASONRY SHEAR WALL W/ ORDINARY & INTERMEDIATE REINFORCING LAYOUT
3/4" = 1'-0"

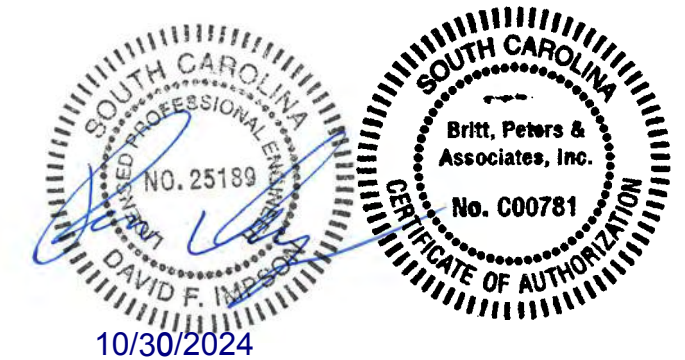


16 OPENING IN MASONRY WALL
3/4" = 1'-0"



17 PLACEMENT OF REINFORCEMENT
1 1/2" = 1'-0"

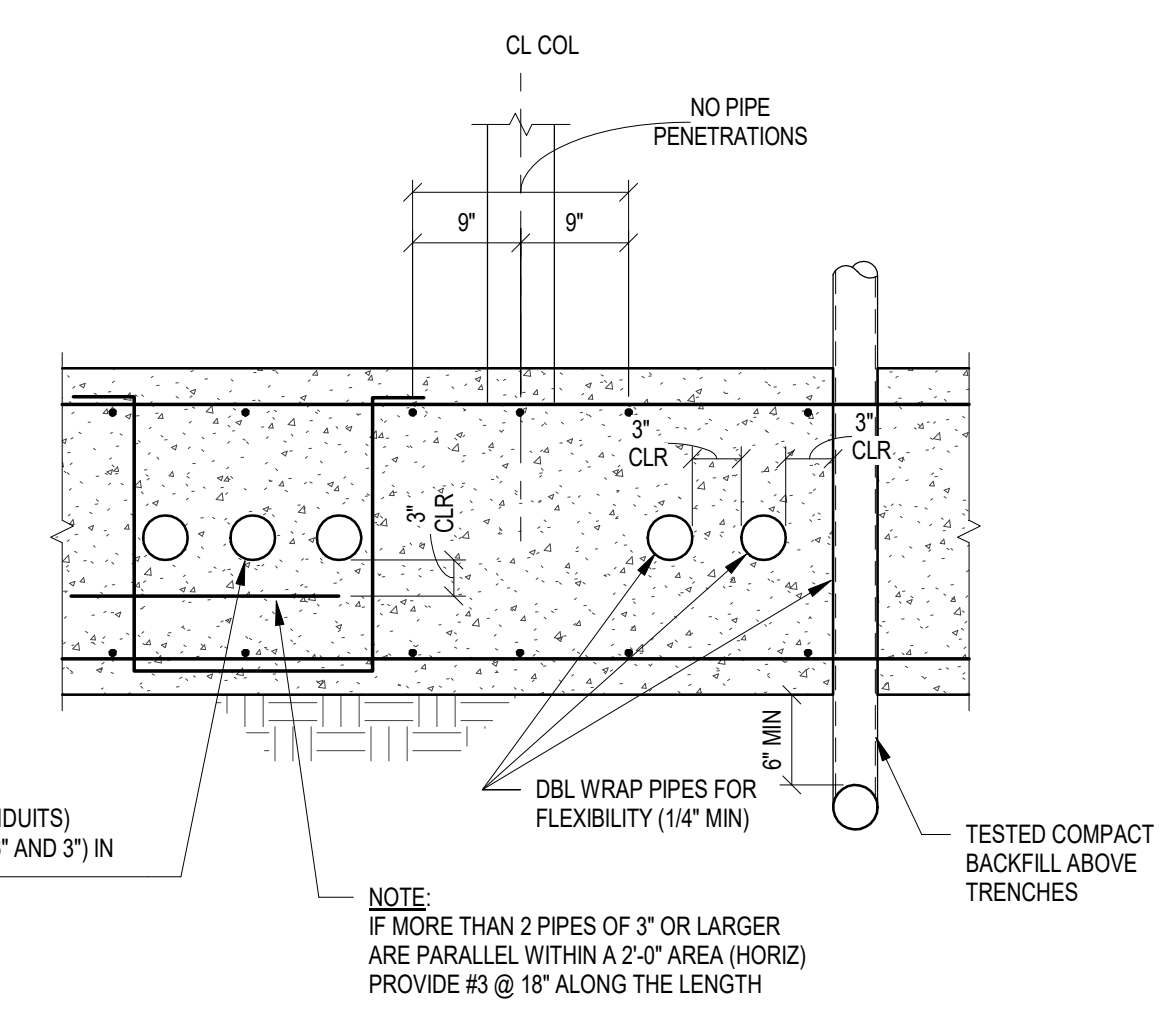
19 WALL CONSTRUCTION
3/4" = 1'-0"



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REINFORCING BAR LAP LENGTH SCHEDULE (CLASS B)				
GRADE 60 STEEL				
NORMAL WEIGHT CONCRETE STRENGTH				
BAR	3000 PSI	4000 PSI	5000 PSI	7000 PSI
#3	21"	18"	17"	14"
#4	28"	25"	22"	19"
#5	36"	31"	28"	23"
#6	43"	37"	33"	28"
#7	62"	54"	48"	41"
#8	71"	62"	55"	47"
#9	80"	70"	62"	53"
#10	90"	78"	70"	59"
#11	100"	87"	78"	66"

- LAP SCHEDULE NOTES:**
- LENGTH SHOWN CONFORM TO NON-SEISMIC PROVISIONS OF ACI 318 FOR UNCOATED BARS ENCLOSED BY PROPERLY SPACED TIES OR STIRRUPS
 - LENGTH IN TABLE SHALL BE FACTORED FOR THE FOLLOWING CONDITIONS:
 - HORIZONTAL BARS MORE THAN 12" ABOVE BOTTOM OF CAST MEMBER: 1.3xTABLE LENGTH
 - LIGHT WEIGHT CONCRETE: 1.3xTABLE LENGTH
 - BAR CLEAR SPACING SHALL BE NO LESS THAN ONE BAR DIAMETER AND/OR BAR CLEAR COVER LESS THAN ONE BAR DIAMETER: 1.5xTABLE LENGTH
 - WHERE MORE THAN ONE CONDITION APPLIES, ALL APPLICABLE FACTORS SHALL BE APPLIED TO LENGTH INDICATED IN TABLE
 - THIS TABLE SHALL APPLY UNLESS SPECIFICALLY NOTED, DETAILED OR SCHEDULED OTHERWISE
 - UNLESS NOTED OTHERWISE ALL REINFORCING BARS SHALL LAP AROUND CORNERS

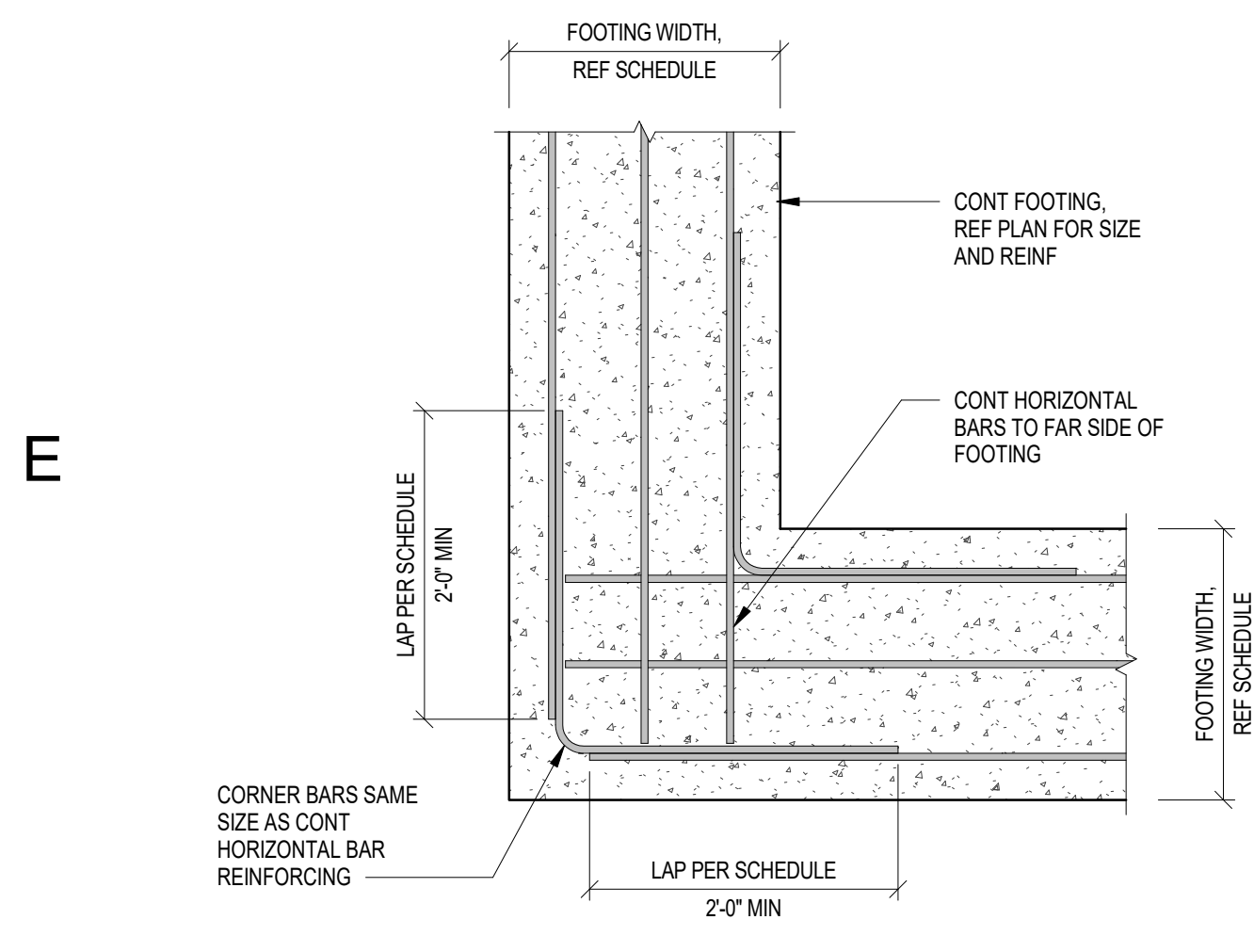


NOTE: NO MORE THAN TWO PIPES (CONDUITS) AGGREGATE DIAMETERS = 9" (IF 6" AND 3") IN LAYERS

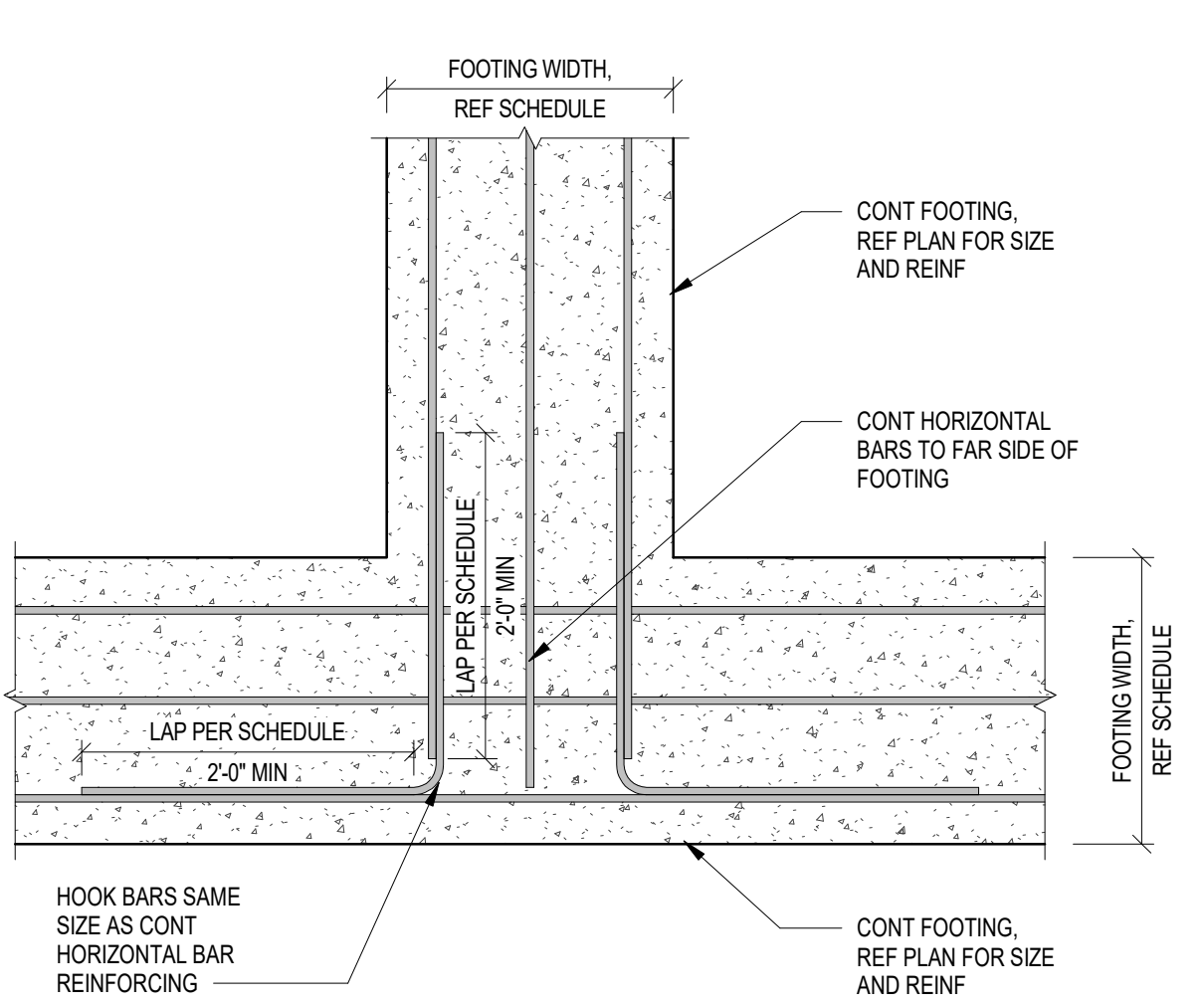
NOTE: IF MORE THAN 2 PIPES OF 3" OR LARGER ARE PARALLEL WITHIN A 2'-0" AREA (HORIZ) PROVIDE #3 @ 18" ALONG THE LENGTH

TESTED COMPACT BACKFILL ABOVE TRENCHES

3 TYPICAL PENETRATION THRU FOOTING
3/4" = 1'-0"



1 TYPICAL FOOTING CORNER REINFORCING DETAIL
3/4" = 1'-0"



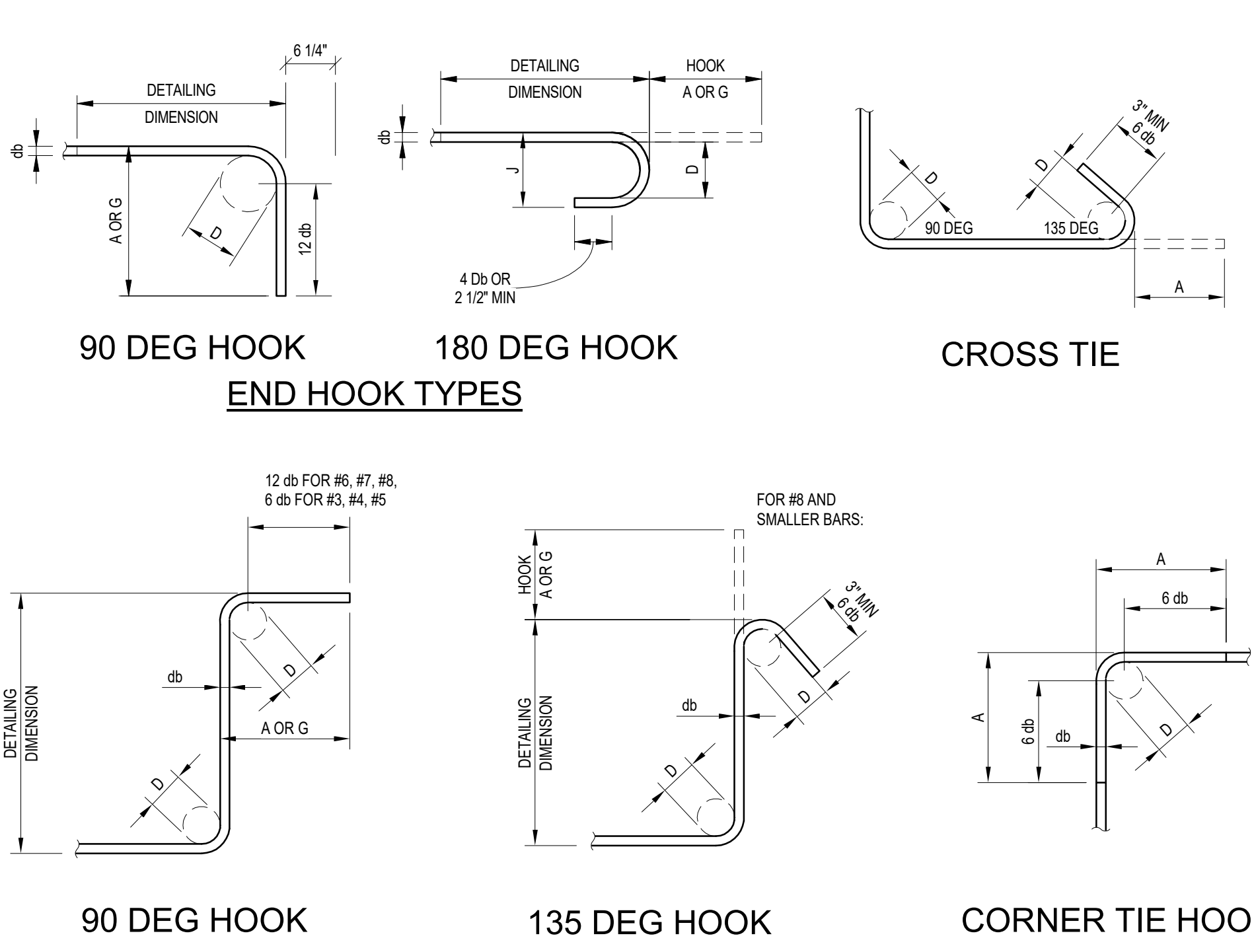
2 TYPICAL FOOTING INTERSECTION REINFORCING INTERSECTION
3/4" = 1'-0"

RECOMMENDED END HOOKS					HOOK MIN DEVELOPMENT LENGTHS (IN)		
BAR SIZE	FINISHED BEND DIAMETER D (IN)	180 DEG HOOKS		90 DEG HOOKS	NORMAL WT CONCRETE		
		A OR G (IN)	J (IN)	A OR G (IN)	3000	4000	5000
#3	2 1/4	5	3	6	9	8	7
#4	3	6	4	8	11	10	9
#5	3 3/4	7	5	10	14	12	11
#6	4 1/2	8	6	12	17	15	13
#7	5 1/4	10	7	14	20	17	15
#8	6	11	8	16	22	19	17
#9	9 1/2	15	11 3/4	19	25	22	20
#10	10 3/4	17	13 1/4	22	28	25	22
#11	12	19	14 3/4	24	31	27	24

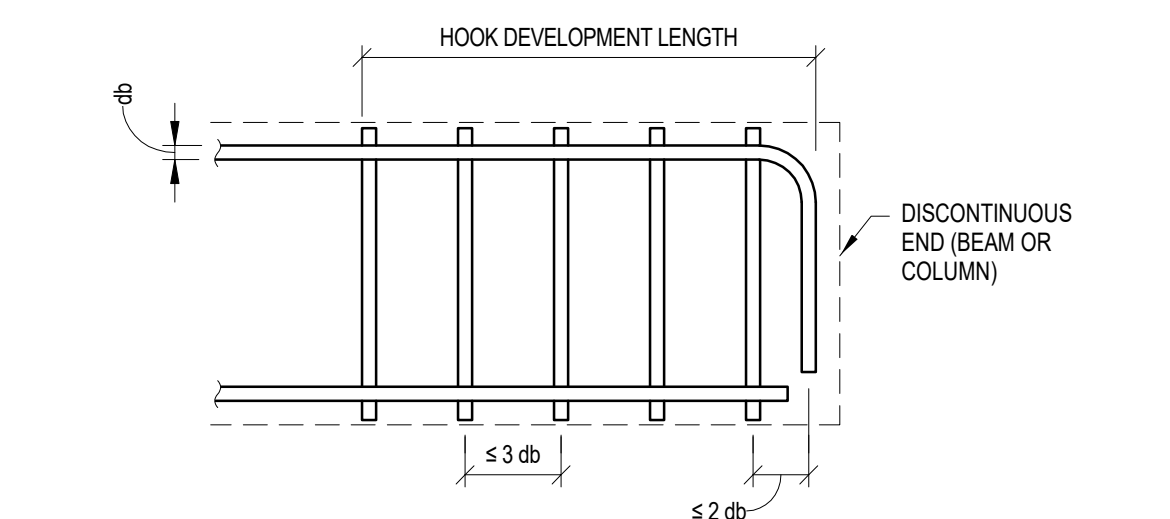
D = INSIDE BEND OF DIAMETER
1. HOOK EMBEDMENT LENGTHS IN TABLE SHALL BE FACTORED FOR THE FOLLOWING CONDITIONS:
• LIGHTWEIGHT CONCRETE: 1.3 x TABLE LENGTH
• EPOXY COATED BARS: 1.2 x TABLE LENGTH

STIRRUP AND TIE HOOK SCHEDULE			
BAR SIZE	D (IN)	90 DEG HOOK A OR G (IN)	135 DEG HOOK A OR G (IN)
#3	1 1/2	4	4
#4	2	4 1/2	4 1/2
#5	2 1/2	6	5 1/2

D = INSIDE BEND OF DIAMETER



5 STIRRUP AND TIE HOOK TYPES DETAIL
3/4" = 1'-0"



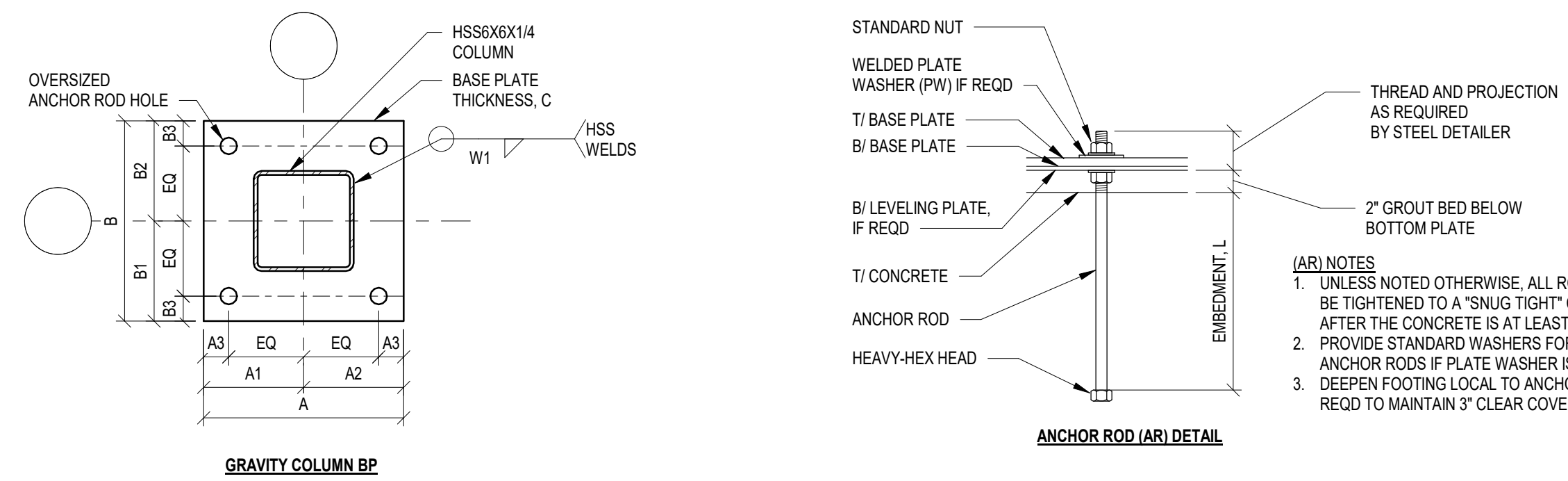
7 STIRRUPS OR TIE HOOKS REQUIREMENTS AT DISCONTINUOUS END
3/4" = 1'-0"

BAR	REINFORCING BAR LAP LENGTH SCHEDULE (CLASS B)														BAR
	SLABS AND HORIZONTAL WALL REIN		BEAMS		FOOTINGS AND RETAINING WALLS		VERTICAL WALL REIN		COLUMNS		SPECIAL BOUNDARY ELEMENTS				
	4000 PSI	5000 PSI	4000 PSI	5000 PSI	3000 PSI	4000 PSI	5000 PSI	7000 PSI	5000 PSI	7000 PSI	5000 PSI	7000 PSI	5000 PSI	7000 PSI	
#3	1'-4"	1'-4"	1'-4"	1'-4"	1'-4"	1'-4"	1'-4"	1'-4"	1'-4"	1'-4"	1'-4"	1'-4"	1'-4"	1'-4"	#3
#4	1'-7"	1'-5"	1'-4"	1'-4"	1'-6"	1'-4"	1'-4"	1'-4"	1'-4"	1'-8"	1'-8"	1'-8"	1'-8"	1'-8"	#4
#5	2'-4"	2'-1"	1'-8"	1'-6"	1'-10"	1'-7"	1'-5"	1'-4"	2'-1"	2'-1"	1'-9"	1'-8"	1'-8"	1'-8"	#5
#6	3'-1"	2'-10"	2'-3"	2'-0"	2'-2"	1'-11"	1'-11"	1'-8"	2'-6"	2'-6"	2'-1"	1'-9"	1'-8"	1'-8"	#6
#7	5'-0"	4'-8"	3'-8"	3'-5"	3'-7"	3'-1"	3'-2"	2'-8"	2'-11"	2'-11"	3'-1"	2'-7"	2'-7"	2'-7"	#7
#8	6'-2"	5'-7"	4'-7"	4'-2"	4'-8"	3'-11"	4'-0"	3'-4"	3'-5"	2'-3"	3'-8"	2'-11"	2'-11"	2'-11"	#8
#9	7'-6"	6'-9"	5'-8"	5'-1"	5'-6"	4'-10"	4'-11"	4'-2"	3'-11"	3'-8"	3'-11"	3'-4"	3'-4"	3'-4"	#9
#10	9'-0"	8'-1"	6'-7"	5'-11"	6'-9"	5'-10"	5'-11"	5'-0"	4'-10"	4'-2"	4'-8"	3'-12"	3'-12"	3'-12"	#10
#11	10'-7"	9'-6"	7'-3"	6'-6"	8'-1"	7'-0"	7'-1"	6'-0"	5'-9"	4'-11"	5'-8"	4'-9"	4'-9"	4'-9"	#11

- NOTES:**
- FOR DEVELOPMENT LENGTHS: DIVIDE THE TABULATED VALUES BY 1.3
 - PROVIDE CONTINUOUS REINFORCING WHEREVER POSSIBLE. SPLICE ONLY AS SHOWN OR APPROVED.
 - DOWELS SHALL MATCH THE SIZE AND SPACING OF THE SPECIFIED REINFORCING AND SHALL BE LAPPED WITH CLASS 'B' SPLICES
 - UNLESS NOTED OTHERWISE LAP LENGTHS SHALL BE OF LENGTHS TABULATED AND AS MODIFIED BY THESE NOTES.
 - WHERE HORIZONTAL REINFORCING IS PLACED SUCH THAT MORE THAN 12" OF FRESH CONCRETE IS CAST BELOW THE SPLICE, MULTIPLY TABULATED VALUES BY 1.3
 - FOR EPOXY OR ZINC DUAL-COATED REINFORCING, MULTIPLY TABULATED VALUES BY THE GREATER OF THE FOLLOWING THAT APPLY:
 - A. 1.5 FOR REINFORCING HAVING A CLEAR COVER LESS THAN 3 BAR DIAMETERS OR FOR REINFORCING HAVING A CLEAR SPACING LESS THAN 6 BAR DIAMETERS
 - B. 1.2 FOR REINFORCING HAVING A CLEAR COVER OF 3 BAR DIAMETERS OR MORE OR FOR REINFORCING HAVING A CLEAR SPACING OF 6 BAR DIAMETERS OR MORE
 - THE FACTORS FROM NOTES 5 AND 6, WHEN MULTIPLIED TOGETHER, NEED NOT BE GREATER THAN 1.7
 - FOR LIGHTWEIGHT AND SEMI-LIGHTWEIGHT CONCRETE, MULTIPLY THE TABULATED VALUES BY 1.3
 - FOR 75 KSI REINFORCING, MULTIPLY THE TABULATED VALUES BY 1.25 (VALUES BASED ON 60 KSI)
 - COLUMNS THAT HAVE #11 BARS SPLICED TO #14 OR #18 BARS SHALL USE LAP LENGTHS LISTED FOR #11 BARS
 - SPLICES BETWEEN #14 AND #18 BARS REQUIRE MECHANICAL COUPLERS, REF RELEVANT DETAILS OR SPECIFICATIONS
 - UNLESS NOTED OTHERWISE ALL REINFORCING BARS SHALL LAP AROUND CORNERS
 - FOR VERTICAL WALL REINFORCING AND HORIZONTAL WALL REINFORCING FOR SPECIAL CONCRETE SHEAR WALLS, TABULATED VALUES SHALL BE MULTIPLIED BY 1.25 TO INSURE DUCTILITY. TABULATED VALUES FOR SPECIAL BOUNDARY ELEMENTS HAVE ALREADY BEEN MULTIPLIED BY 1.25
 - ALL FACTORS ARE CUMULATIVE AND NOT MUTUALLY EXCLUSIVE
 - FOR CONCRETE STRENGTHS NOT LISTED, USE THE NEXT SMALLEST CONCRETE STRENGTH LISTED IN THE TABLE TO CALCULATE THE REQUIRED BAR LAP.

- BASES OF DESIGN TABLE**
- SITUATIONS NOT CONFORMING TO THE FOLLOWING BELOW SHALL BE REVIEWED BY A CASE BY CASE BASIS
 - SLABS AND HORIZONTAL WALL REINFORCING: 3/4" (MIN) COVER AND 1 1/2" (MIN) CLEAR SPACING BETWEEN BARS
 - BEAMS: 1 1/2" (MIN) COVER WITH STIRRUP AND EITHER THE GREATER OF 2.38" OR 2 DB (MIN) CLEAR SPACING BETWEEN BARS
 - FOOTINGS AND RETAINING WALLS: 3" (MIN) CLEAR FOR GRADE BEAMS, PILE CAPS OR FOOTINGS AND 2" (MIN) CLEAR FOR RETAINING WALLS AND 3" (MIN) CLEAR SPACING BETWEEN BARS
 - VERTICAL WALL REINFORCING: 3/4" (MIN) COVER WITH HORIZONTAL #4 BAR (MIN) AND 4" (MIN) SPACING BETWEEN BARS
 - COLUMNS: 1 1/2" (MIN) COVER WITH #3 TIES AT 12" OC (MIN) AND 3" (MIN) CLEAR SPACING BETWEEN BARS
 - SPECIAL BOUNDARY ELEMENTS: 3/4" (MIN) COVER WITH HORIZONTAL #4 BAR (MIN) AND CONFINEMENT PER TYPICAL DETAILS AND 4" (MIN) SPACING BETWEEN BARS

8 REINFB BAR LAP LENGTH SCHEDULE
3/4" = 1'-0"



BASE PLATE (BP) SCHEDULE														
MARK	BP TYPE	PLATE SIZE (IN)			PLATE AND HOLE LOCATION (IN)			WELD	ANCHOR RODS	SHEAR LUG TYPE	REMARKS			
		A	B	C	A1	A2	A3					B1	B2	B3
BP1	G	12	12	1/2	EQ	EQ	1 1/2	EQ	EQ	1 1/2	5/8	(4)AR1	2	N/A

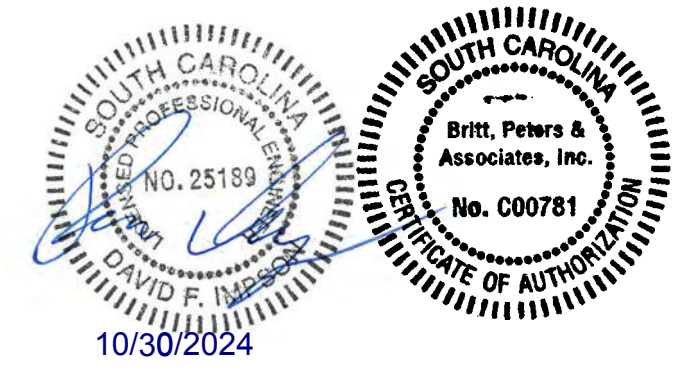
ANCHOR ROD (AR) SCHEDULE				
MARK	DESCRIPTION	EMBEDMENT (L)	PLATE WASHER (PW)	REMARKS
AR1	5/8" DIA. F1554 GR36	6"	PL 1/2x2 1/4x4'-2 1/4"	

9 BASE PLATE DETAILS
1 1/2" = 1'-0"

NOTE REGARDING REINF COVER REQUIREMENTS
ALL REINFORCING SHALL BE PLACED IN ACCORDANCE WITH THE MINIMUM COVER REQUIREMENTS PER ACI AS OUTLINED IN THE GENERAL NOTES. SPECIFIC BAR LOCATIONS SHOWN IN SECTIONS AND DETAILS MAY OVERRIDE BUT NOT VIOLATE THE MINIMUM COVER REQUIREMENTS.

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City of Clemson
1250 Tiger Blvd
CLEMSON, SC 29631

Consultants
Britt Peters & Associates, Inc.
101 Falls Park Dr #601
Greenville, SC 29601
864.271.8869
www.website.com



Keyplan



4	10/30/2024	100% CONSTRUCTION DOCUMENTS
3	10/01/2024	90% CONSTRUCTION DOCUMENTS
2	09/13/2024	100% CONSTRUCTION DOCUMENTS
1	08/16/2024	50% CONSTRUCTION DOCUMENTS

CLEMSON CITY PARK
CLEMSON,
SOUTH CAROLINA

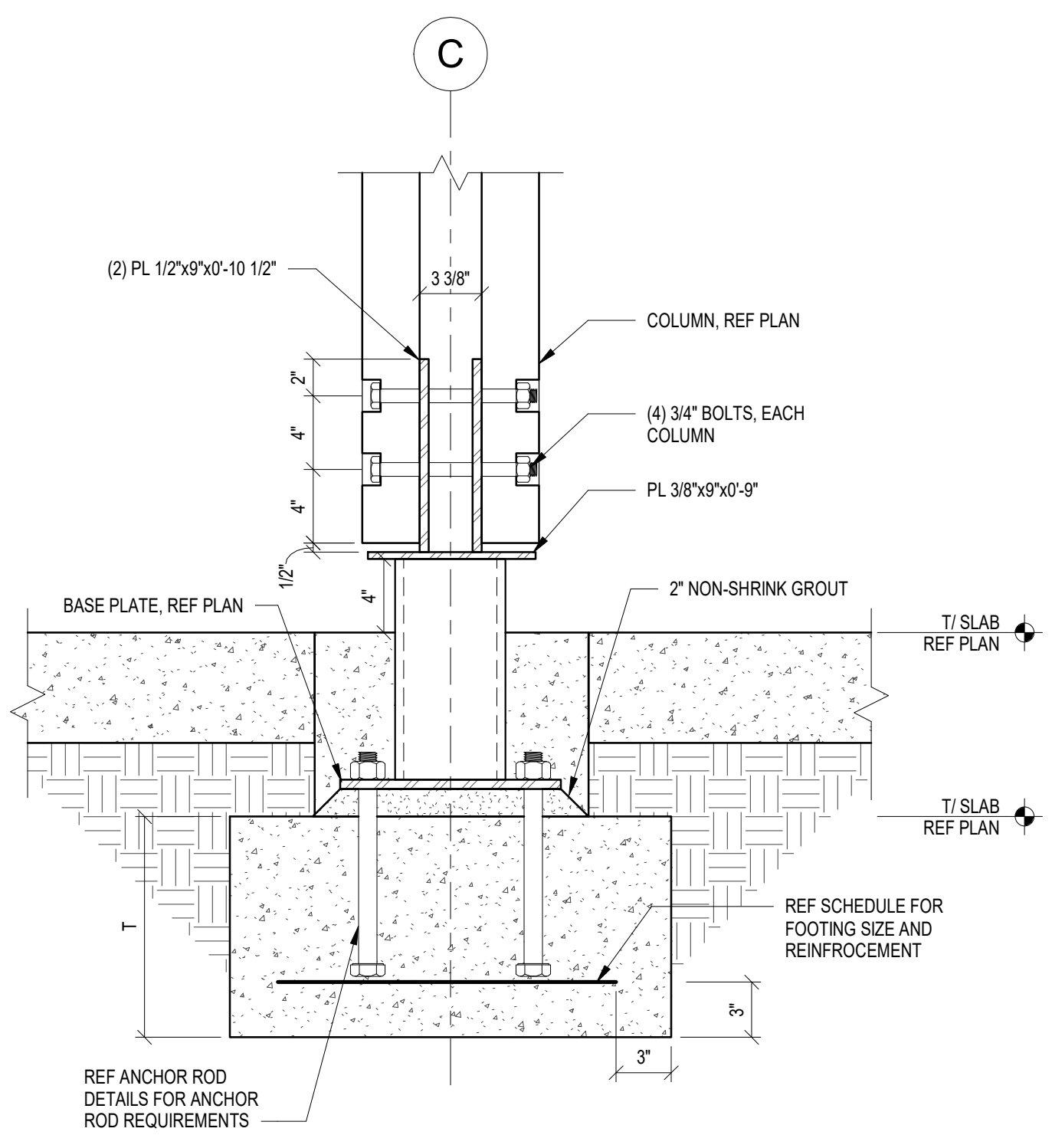
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Status & Date: 4
8/16/2024

Sheet Title:
FOUNDATION SECTIONS

Sheet Number:

S401

6 | 5 | 4 | 3 | 2 | 1



1 GLULAM COLUMN BASE CONNECTION
1 1/2" = 1'-0"

E

D

C

B

A

E

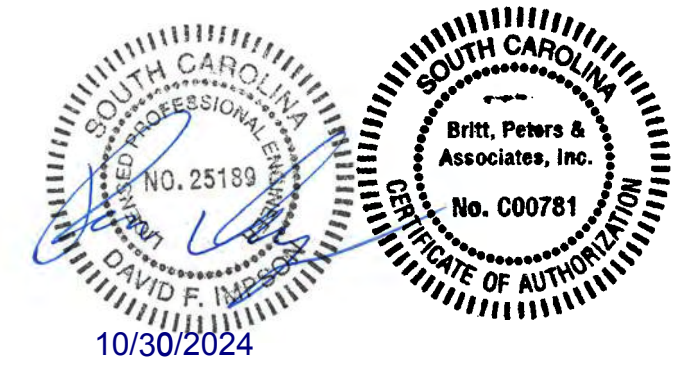
D

C

B

A

6 | 5 | 4 | 3 | 2 | 1



Keyplan



4	10/30/2024	100% CONSTRUCTION DOCUMENTS
3	10/01/2024	90% CONSTRUCTION DOCUMENTS
2	09/13/2024	100% CONSTRUCTION DOCUMENTS
1	08/16/2024	50% CONSTRUCTION DOCUMENTS

CLEMSON CITY PARK
CLEMSON,
SOUTH CAROLINA

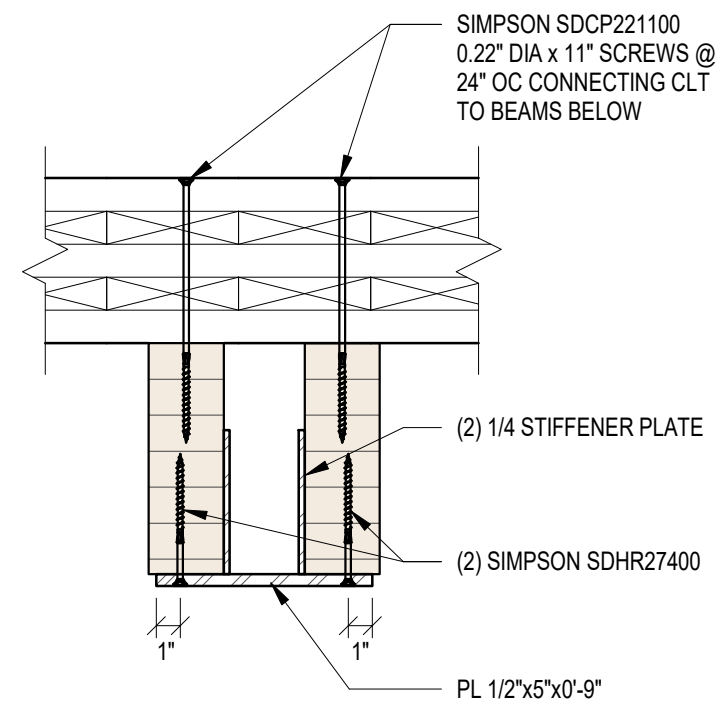
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Status & Date: 4
8/16/2024

Sheet Title:
A ROOF SECTIONS

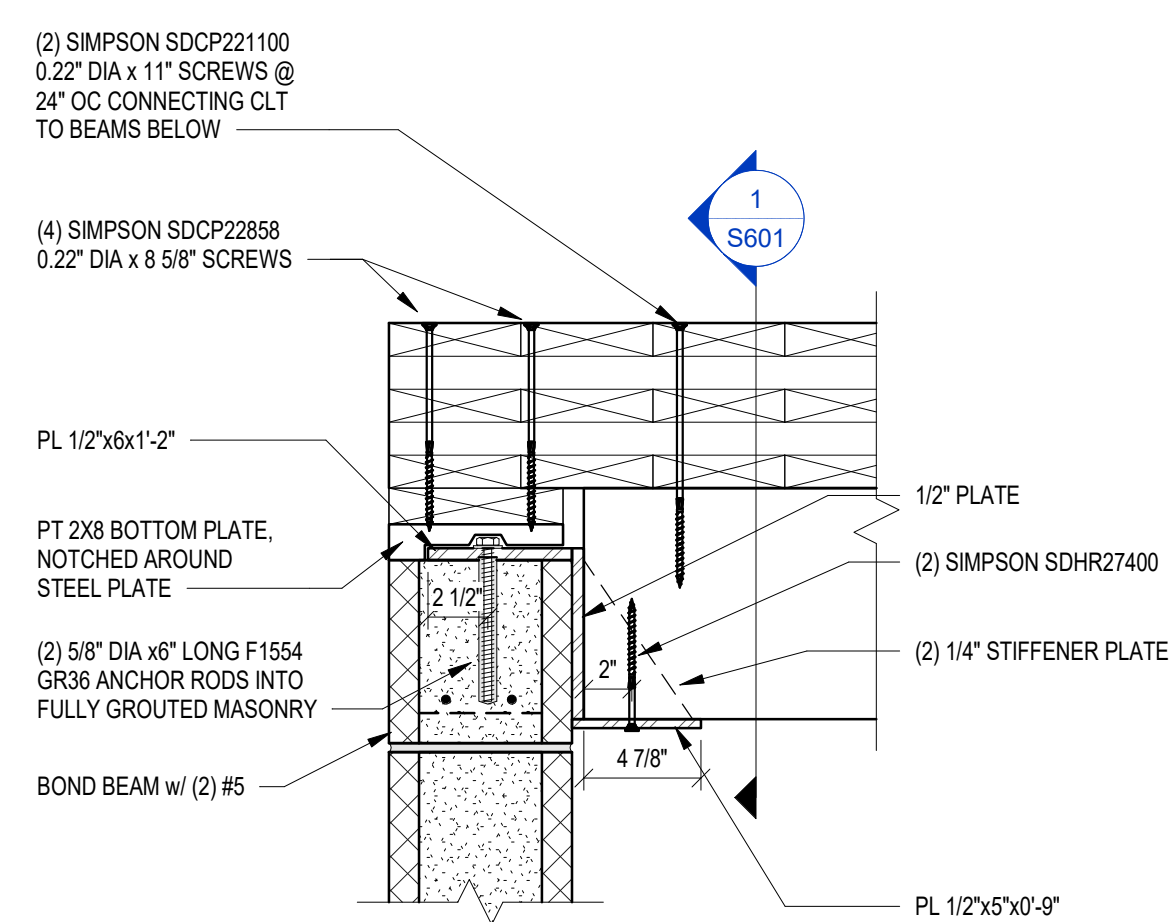
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S601

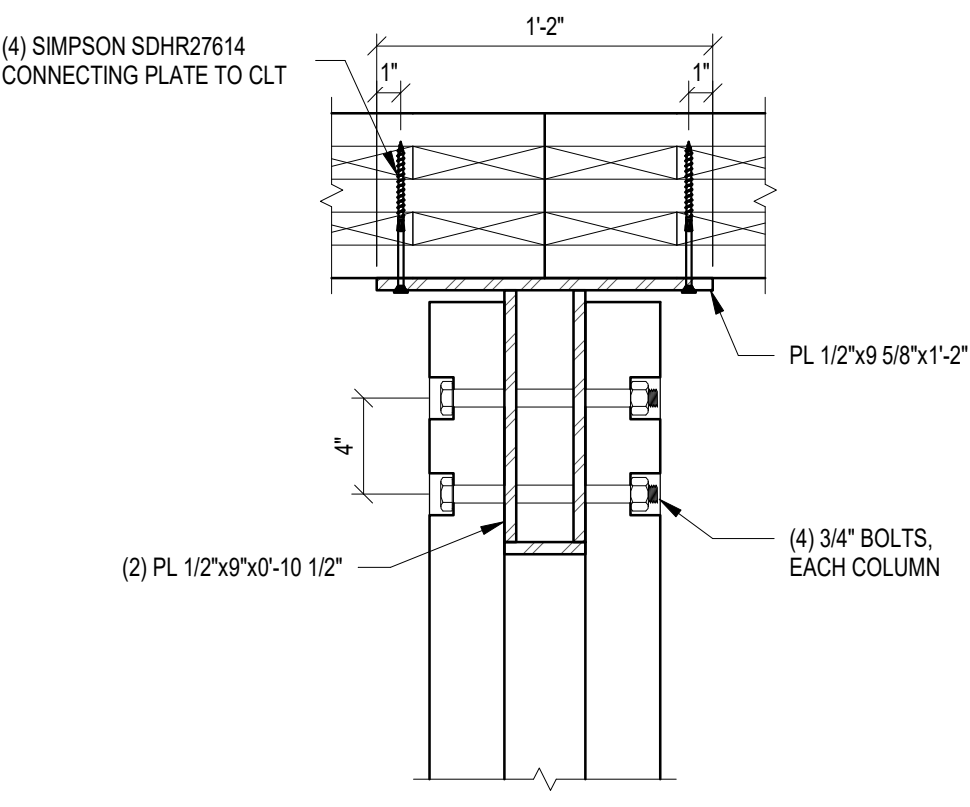
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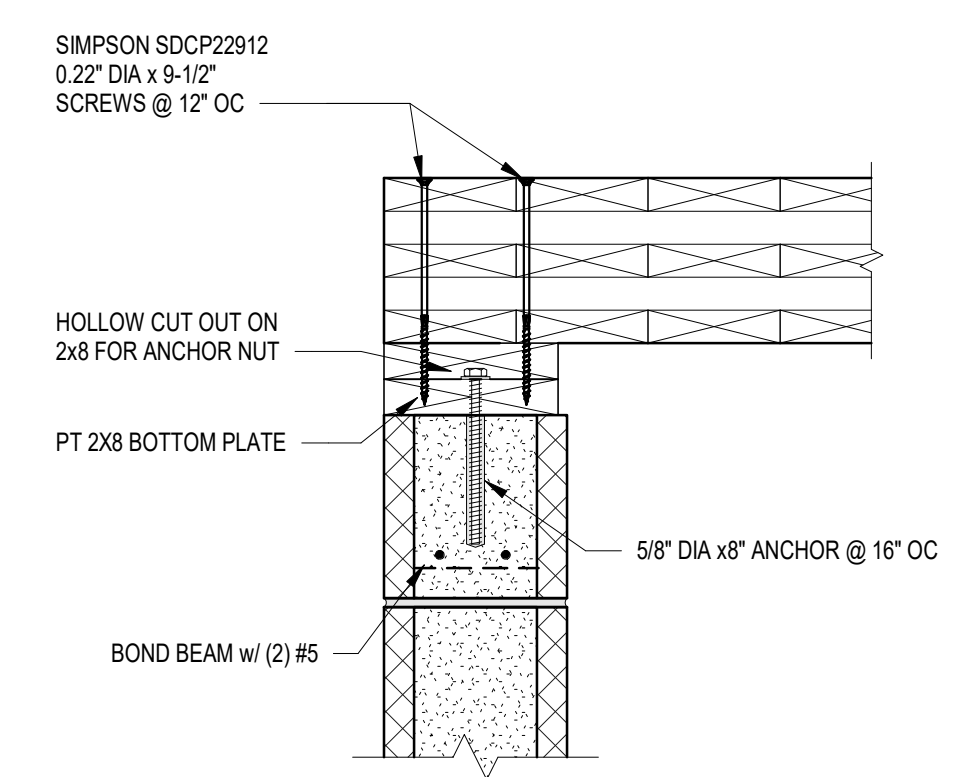
1 GLULAM BEAM TO CMU CONNECTION
1 1/2\"/>



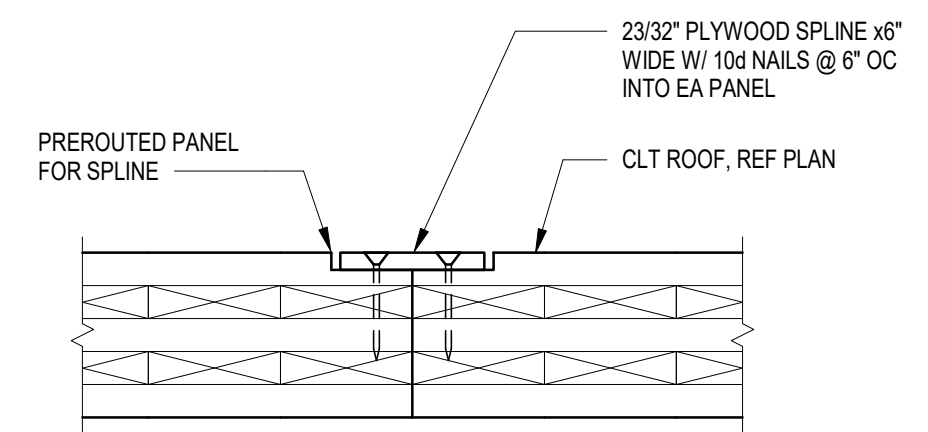
2 GLULAM BEAM TO CMU CONNECTION
1 1/2\"/>



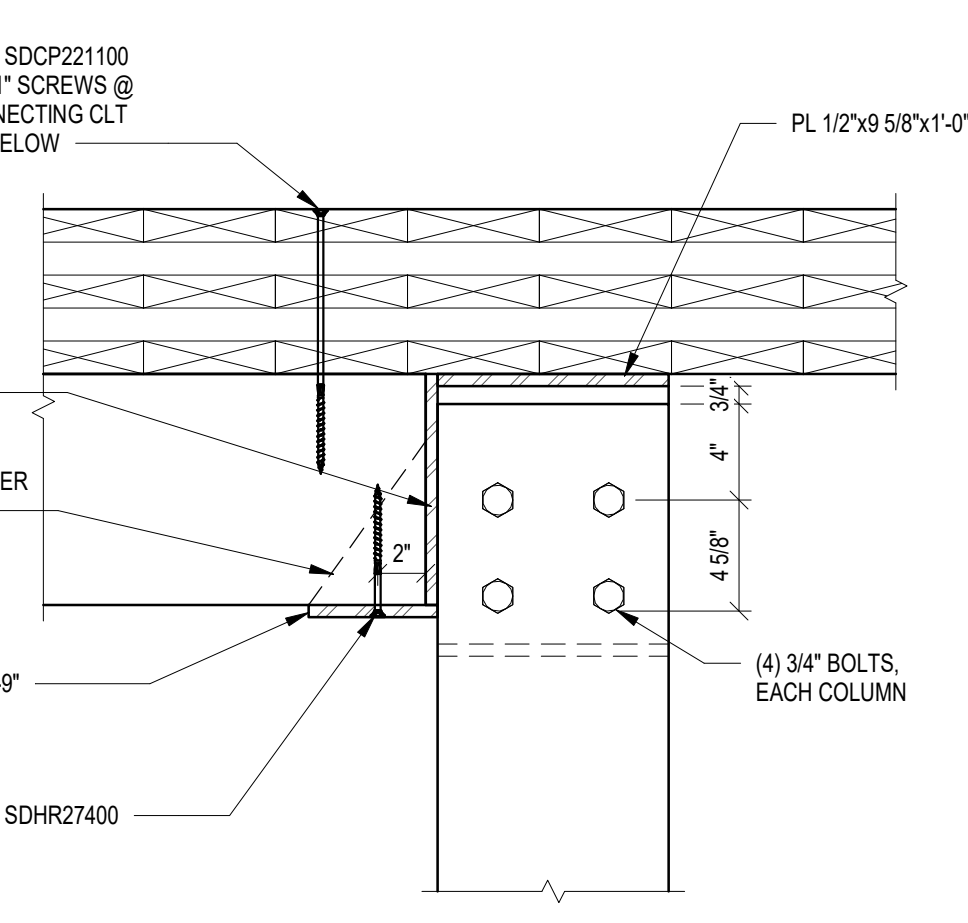
3 POINT SUPPORT CLT TO COLUMN CONNECTION
1 1/2\"/>



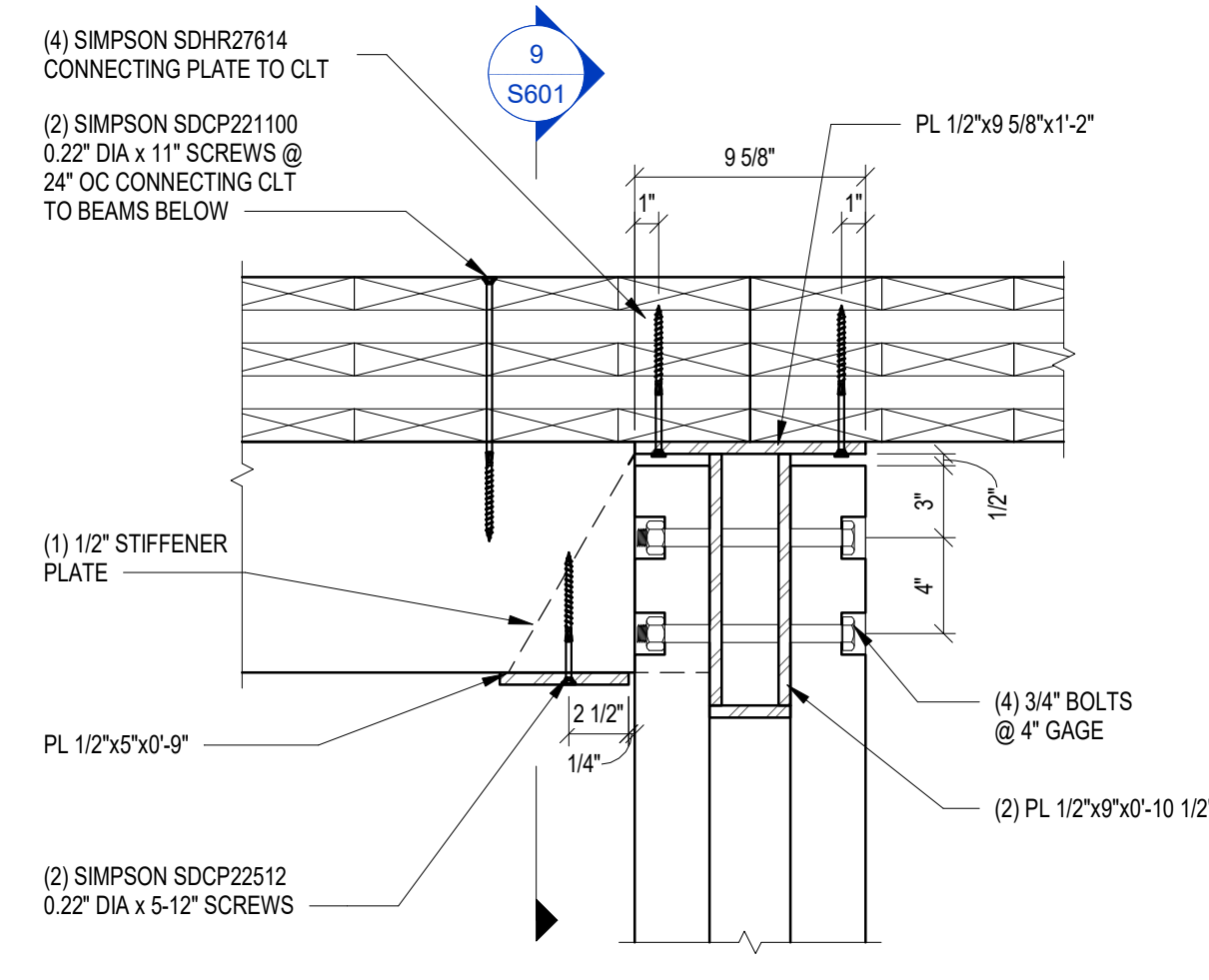
4 CLT TO CMU BEARING CONNECTION
1 1/2\"/>



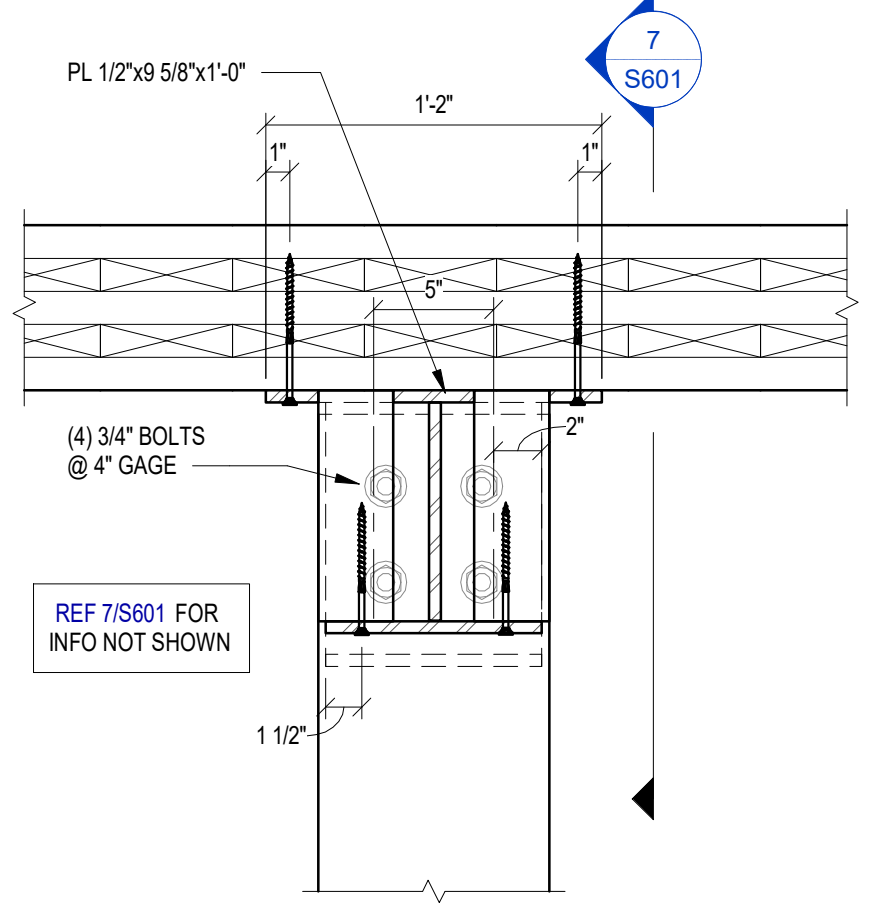
5 SECTION
1 1/2\"/>



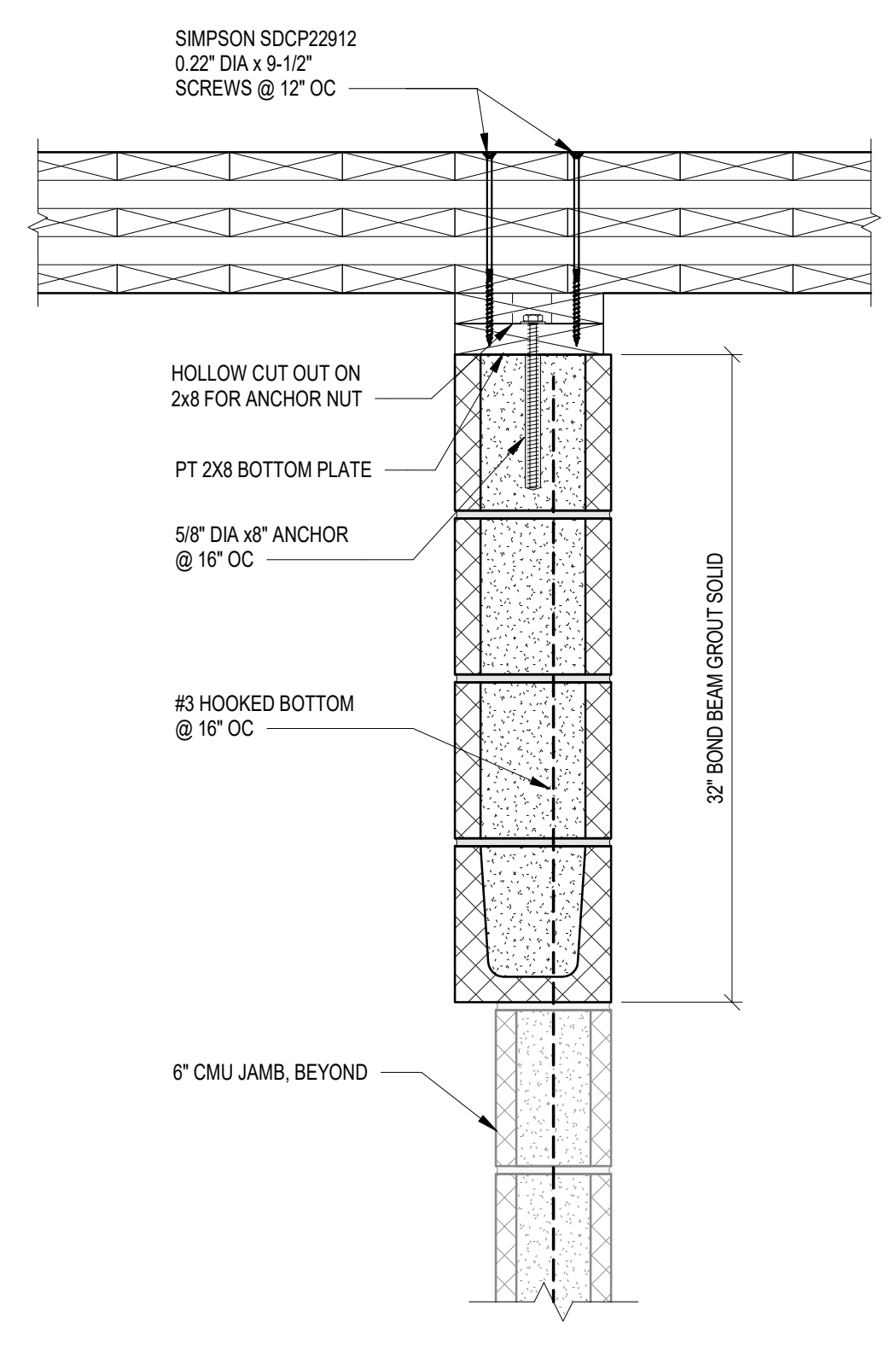
6 SECTION
1 1/2\"/>



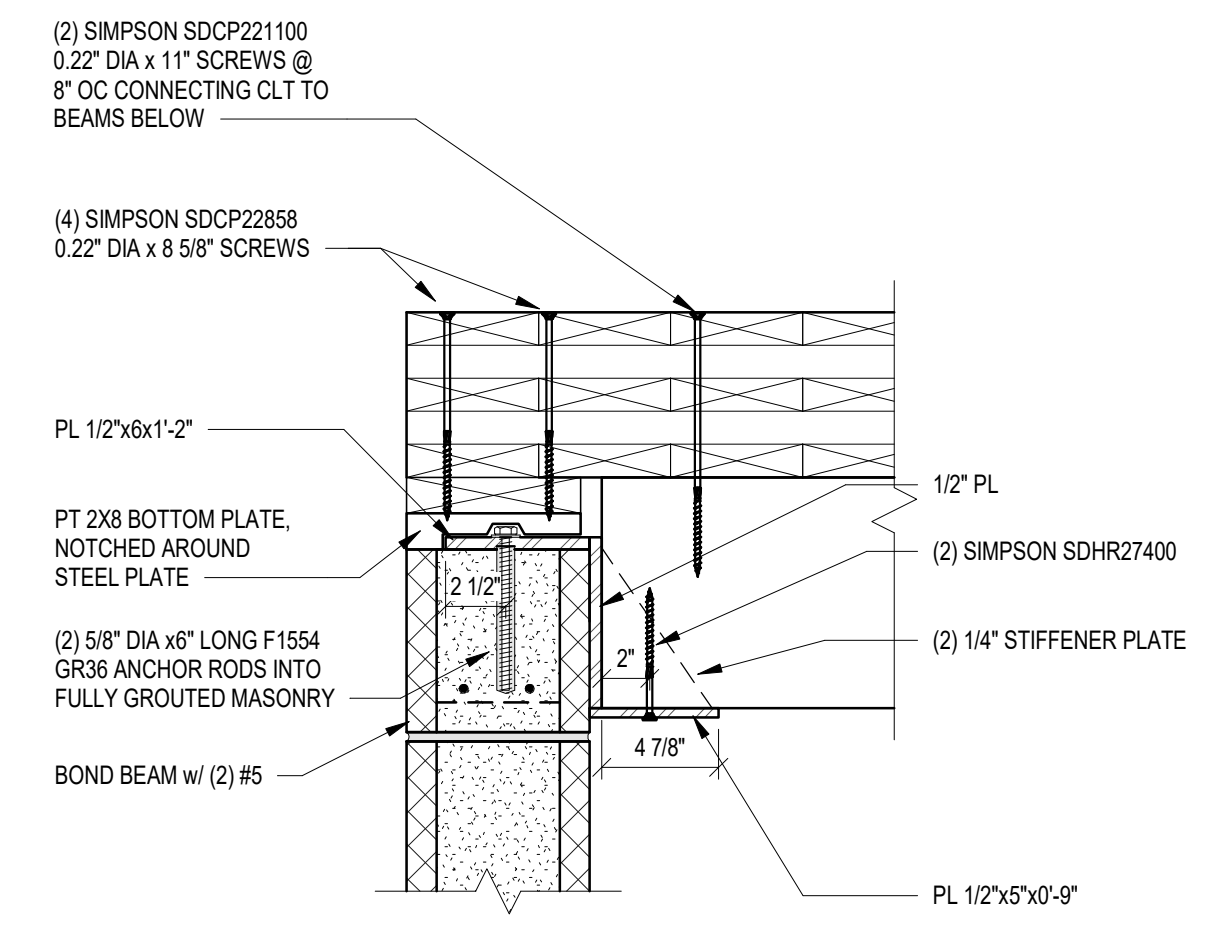
7 SECTION
1 1/2\"/>



9 SECTION
1 1/2\"/>



8 SECTION
1 1/2\"/>



10 GLULAM BEAM TO CMU CONNECTION AT SHADE
1 1/2\"/>

6 | 5 | 4 | 3 | 2 | 1

INDEX OF DRAWINGS

Table with columns: SHEET NUMBER, SHEET NAME. Includes sections for General Sheets, Demolition, and Architecture.

PROJECT SCOPE

THE DEMOLITION, IN ITS ENTIRETY, OF THE EXISTING PARK STRUCTURE AND THE ARCHITECTURAL & STRUCTURAL DESIGN FOR NEW PARK STRUCTURE AND SHADE STRUCTURE, MECHANICAL, ELECTRICAL, AND PLUMBING ARE NOT PART OF THE ARCHITECTURAL OR STRUCTURAL SCOPE OF THIS PROJECT. ALL INFORMATION RELATED TO MECHANICAL, ELECTRICAL OR PLUMBING ITEMS IN DOCUMENTS ARE FOR REFERENCE ONLY. GO TO COORDINATE WITH CITY THAT ALL REQUIRED MECHANICAL AND ELECTRICAL ITEMS ARE DELIVERED IN CONSTRUCTION AND APPLICABLE CODES RELATED TO MECHANICAL, ELECTRICAL, AND PLUMBING WORK ARE MET.

TABLE 5-5 BUILDING HEIGHT. Table with columns: AS DESIGNED (In Feet, In Stories), AS ALLOWED BY IBC (In Feet, In Stories). Rows for PER TABLE 504.3, PER TABLE 504.4, and Total Height.

TABLE 5-6 BUILDING DESIGN OCCUPANT LOAD. Table with columns: Function of Space (1), A, B, C, D. Includes a large 'X' and text 'SEE LIFE SAFETY PLANS'.

TABLE 5-7 GENERAL FIRE PROTECTION REQUIREMENTS. Table with columns: SEPARATIONS, ALARM & DETECTION, SUPPRESSION. Includes a large 'X' and text 'NOT APPLICABLE'.

TABLE 5-8 FIRE RESISTANCE RATING OF BUILDING ELEMENTS. Table with columns: BUILDING ELEMENT, Rating As Required, Rating As Designed, Testing Agency & Design No., Design Wall/Floor/Joist Code. Includes a large 'X' and text 'NOT APPLICABLE'.

TABLE 5-9 STRUCTURAL DESIGN INFORMATION. Table with sections: RISK CATEGORY, LIVE LOADS, FLOOR LIVE LOADS, WIND LOADS, SEISMIC LOADS, Basic Seismic Force Resisting System.

TABLE 5-1 FLOOD HAZARD INFORMATION & FLOOD LOADS. Table with sections: FLOOD HAZARD AREA, NON HIGH-VELOCITY WAVE ACTION, HIGH-VELOCITY WAVE ACTION.

TABLE 5-2 SOILS & SITE. Table with sections: SOILS INVESTIGATION, SOILS CLASSIFICATION, MINIMUM DESIGN SOIL BEARING LOAD, MINIMUM DESIGN SOIL LATERAL LOAD, FOOTINGS, ELEVATIONS.

TABLE 5-3 BASIC BUILDING CODE INFORMATION. Table with sections: CONSTRUCTION CLASSIFICATION, OCCUPANCY GROUP, Does building require Incidental Use Area Separation?, OTHER FIRE PROTECTION SYSTEMS, DEVICES or FEATURES.

TABLE 5-4 BUILDING AREA. Table with sections: AREA LIMIT BY TABLE 506.2 OF IBC, AREA AS ALLOWED IN IBC PER STORY, TOTAL ALLOWED AREA OF BUILDING, AREA AS DESIGNED PER STORY, TOTAL DESIGNED AREA OF BUILDING.



CLEMSON CITY PARK CLEMSON, SOUTH CAROLINA

Project Number: 21017.01
Status & Date: 1 11/01/2024

Sheet Title: PROJECT DATA AND DRAWING INDEX

PRINT IN COLOR
Sheet Number:

G002

GENERAL NOTES

- DEFINITION: THE TERM "DESIGN PROFESSIONAL" MEANS "ARCHITECT", "PROFESSIONAL ENGINEER", "INTERIOR DESIGNER" OR OTHER PARTY RESPONSIBLE FOR PROVIDING DESIGN SERVICES AS APPROPRIATE.
1. ALL WORK TO CONFORM TO LOCAL CODES, ORDINANCES, AND REGULATIONS.
2. VERIFY ALL EXISTING CONDITIONS.
3. VERTICAL DIMENSIONS ARE FROM "FLOOR LINE" UNLESS OTHERWISE NOTED. REFER TO ELEVATIONS FOR "FLOOR LINE" DATUMS.
4. EXTERIOR DIMENSIONS ARE FROM FACE OF CMU BLOCK OR COLUMN CENTERLINE UNLESS NOTED OTHERWISE.
5. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS GOVERN. CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD AND NOTIFY DESIGN PROFESSIONAL OF ALL DISCREPANCIES AND OBTAIN CLARIFICATION BEFORE CONTINUING WITH CONSTRUCTION.
6. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR VERIFYING AND COORDINATING WITH ALL TRADES. THE SIZE AND QUANTITY OF ALL OPENINGS FOR MECHANICAL, ELECTRICAL, AND PLUMBING EQUIPMENT, EQUIPMENT PADS OR BASES, AS WELL AS POWER, WATER, AND DRAIN INSTALLATIONS, COORDINATION DRAWINGS FOR ALL TRADES WORK SHALL BE SUBMITTED BY THE GENERAL CONTRACTOR BEFORE COMMENCING WITH WORK. ALL CONCERNS, SPATIAL LIMITATIONS, OR STRUCTURAL CONFLICTS SHALL BE IMMEDIATELY SUBMITTED TO THE DESIGN PROFESSIONAL FOR RESOLUTION PRIOR TO COMMENCING WITH ANY RELATED WORK.
7. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO COORDINATE ALL ELECTRICAL, DATA, AND PHONE OUTLETS, SWITCHES, ETC. TO AVOID CONFLICTS WITH CASEWORK, DOORS, AND OTHER TRADES.
8. ALIGN NEW FLOOR FINISHES WITH EXISTING ADJACENT FLOOR FINISHES UNLESS OTHERWISE INDICATED. WHERE NEW AND EXISTING FINISHED SURFACES ARE INDICATED TO BE ALIGNED, INSTALL SO FINISHED SURFACES ARE FLUSH (FEATHER MAXIMUM 1/8 PER FOUR FEET).
9. IT IS UNDERSTOOD AND AGREED THAT DRAWING REFINEMENTS, ADDITIONAL DETAILING AND CLARIFICATIONS WILL BE ISSUED DURING THE CONSTRUCTION SCHEDULE AND NO ADJUSTMENT WILL BE MADE IN THE CONTRACTORS OR SUB-CONTRACTORS PRICE UNLESS SUCH REFINEMENT, DETAILING OR CLARIFICATIONS RESULT IN CHANGES TO THE SCOPE, QUALITY, FUNCTION AND OR INTENT OF THE DRAWINGS AND THE PROJECT MANUAL NOT REASONABLY INFERRABLE BY A CONTRACTOR OR SUB-CONTRACTOR EXPERIENCED IN THIS TYPE OF WORK.
10. ALL CONTRACTORS AND SUB-CONTRACTORS MUST QUOTE ON COMPLETED, FULLY OPERABLE SYSTEMS BASED ON THE DESIGN INTENT OF THE CONTRACT DOCUMENTS, AND ALL MATERIAL AND LABOR INCLUDED THEREFROM.
11. INSTALL SEALANT AT THE EXTERIOR SIDE OF ALL JOINTS, SEAMS, CONNECTIONS, OR OPENINGS THAT WOULD ALLOW AIR OR WATER INFILTRATION UNLESS NOTED OTHERWISE. SEALANT COLOR MUST RECEIVE DESIGN PROFESSIONAL'S APPROVAL AND MATCH THEIR SAMPLE.
12. ALL EXPOSED ELECTRICAL CONDUIT TO BE PAINTED TO MATCH MOUNTED SURFACE MATERIAL. GC TO COORDINATE FINAL COLOR WITH ARCHITECT.

DESIGN RESPONSIBILITY NOTES

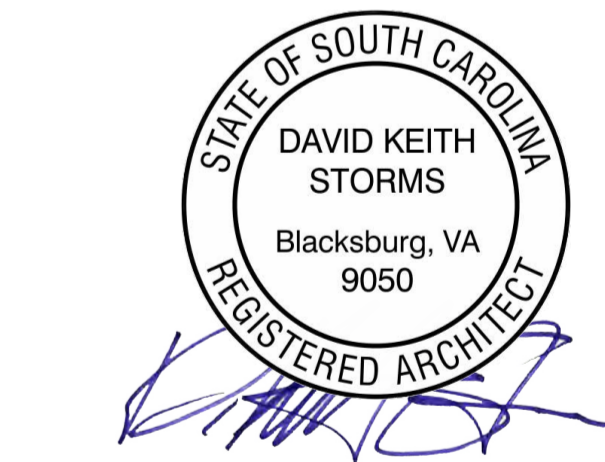
- 1. THESE DRAWINGS AND ASSOCIATED SPECIFICATIONS ARE LIMITED TO THE DESIGN SERVICES CONVEYED WITHIN THE CONTRACT DOCUMENTS. THESE DESIGN SERVICES ARE LIMITED TO:
A. ARCHITECTURAL DESIGN
B. INTERIOR DESIGN
C. STRUCTURAL ENGINEERING DESIGN
D. CIVIL ENGINEERING
E. LANDSCAPE DESIGN
2. EXCLUDED SERVICES ARE, BUT NOT LIMITED TO, THE FOLLOWING:
A. GEOTECHNICAL ENGINEERING
B. FIRE PROTECTION ENGINEERING
C. COST ESTIMATION
D. MECHANICAL ENGINEERING DESIGN
E. ELECTRICAL ENGINEERING DESIGN
F. PLUMBING ENGINEERING DESIGN
3. THE PROJECT SPECIFICATIONS INDICATE SEVERAL AREAS OF DELEGATED DESIGN WHERE A QUALIFIED PROFESSIONAL MUST BE ENGAGED BY THE CONTRACTOR AND/OR SUBCONTRACTOR TO PROVIDE DESIGN SERVICES AND/OR SHOP DRAWINGS. THESE MAY INCLUDE, BUT ARE NOT LIMITED TO:
A. COLD-FORMED METAL FRAMING
B. METAL FABRICATIONS
C. STAIRS AND RAILINGS
D. WOOD OR LIGHT GAUGE METAL TRUSSES
E. ALUMINUM FRAMED ENTRANCES AND STOREFRONTS
F. GLAZING
G. LOUVERS
H. SUSPENDED CEILING SYSTEMS
I. SIGNAGE
J. FIRE SUPPRESSION & FIRE SPRINKLER SYSTEMS
K. PIPE HANGERS & EQUIPMENT SUPPORTS
L. LIGHTING POLES & SPECIALTY LIGHTING DESIGN
M. FIRE ALARM SYSTEMS
N. IRRIGATION SYSTEMS.

ABATEMENT NOTES

ABATEMENT OF HAZARDOUS MATERIALS IS OUTSIDE THE SCOPE OF THESE DOCUMENTS AND WILL BE PERFORMED UNDER A SEPARATE CONTRACT IF REQUIRED.

SUBMITTALS

- SUBMITTALS:
SUBMITTALS AND SHOP DRAWINGS, INCLUDING BUT NOT LIMITED TO THE FOLLOWING SHALL BE PROVIDED TO DESIGN TEAM FOR REVIEW PRIOR TO INSTALLATION. NOTE: PHYSICAL SAMPLES OF ALL EXPOSED EXTERIOR MATERIALS SHALL BE PROVIDED TO ARCHITECT PRIOR TO INSTALLATION.
• STANDING SEAM METEAL ROOF
• CLT & GLULAMS (INCLUDING FINISH MATERIALS)
• CMU BLOCK
• GROUT / MORTAR
• SEALANTS & CAULKS
• CONCRETE (INCLUDING FINISH MATERIAL FOR POLISHED CONCRETE)
• HM DOORS & FRAMES
• DOOR HARDWARE
• DOOR SIGNS
• WINDOW FRAMES
• GLAZING
• BATHROOM PARTITIONS
• TBA ACCESSORIES
• PLUMBING FIXTURES
• LIGHT FIXTURES
• ELECTRICAL OUTLETS & SWITCHES (INCLUDING COVER PLATES)
• EXPOSED ELECTRICAL CONDUIT
• PAINT SAMPLES
• STEEL FABRICATION (COLLUMIN / BEAM CONNECTIONS, BENCH / OPENING SURROUND)
• FIRE EXTINGUISHER & CABINET
• SMOKE DETECTORS
• EXIT SIGNS



CLEMSON CITY PARK
CLEMSON, SOUTH CAROLINA

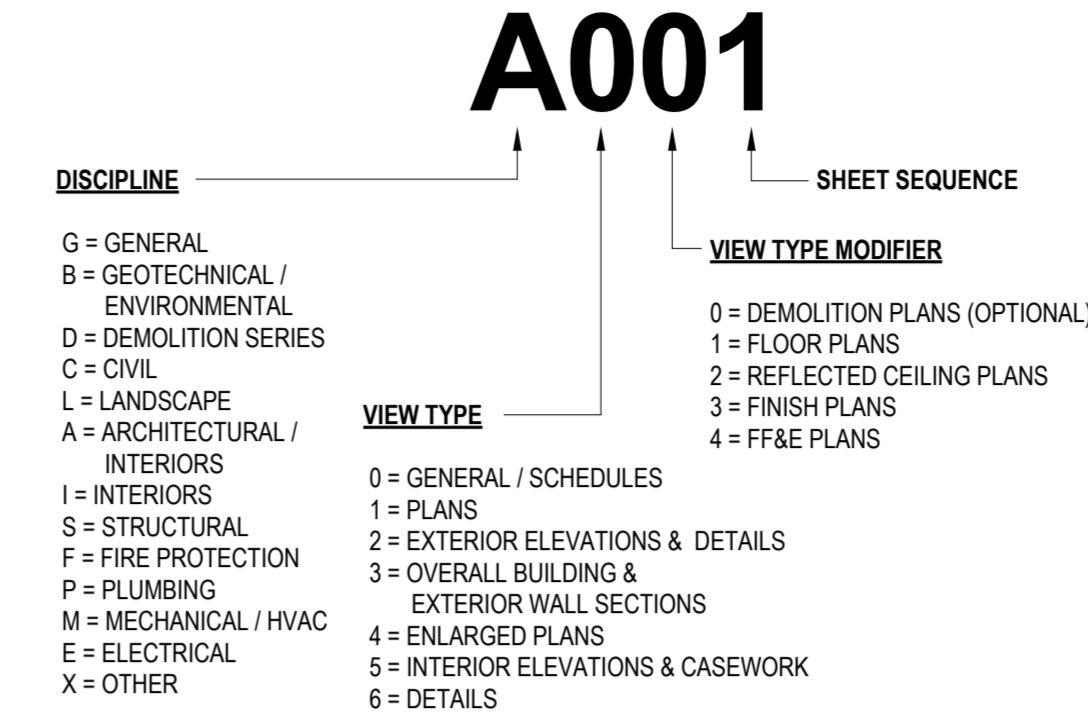
Project Number: 21017.01
Status & Date: 1
11/01/2024

Sheet Title:
GENERAL NOTES & ABBREVIATIONS

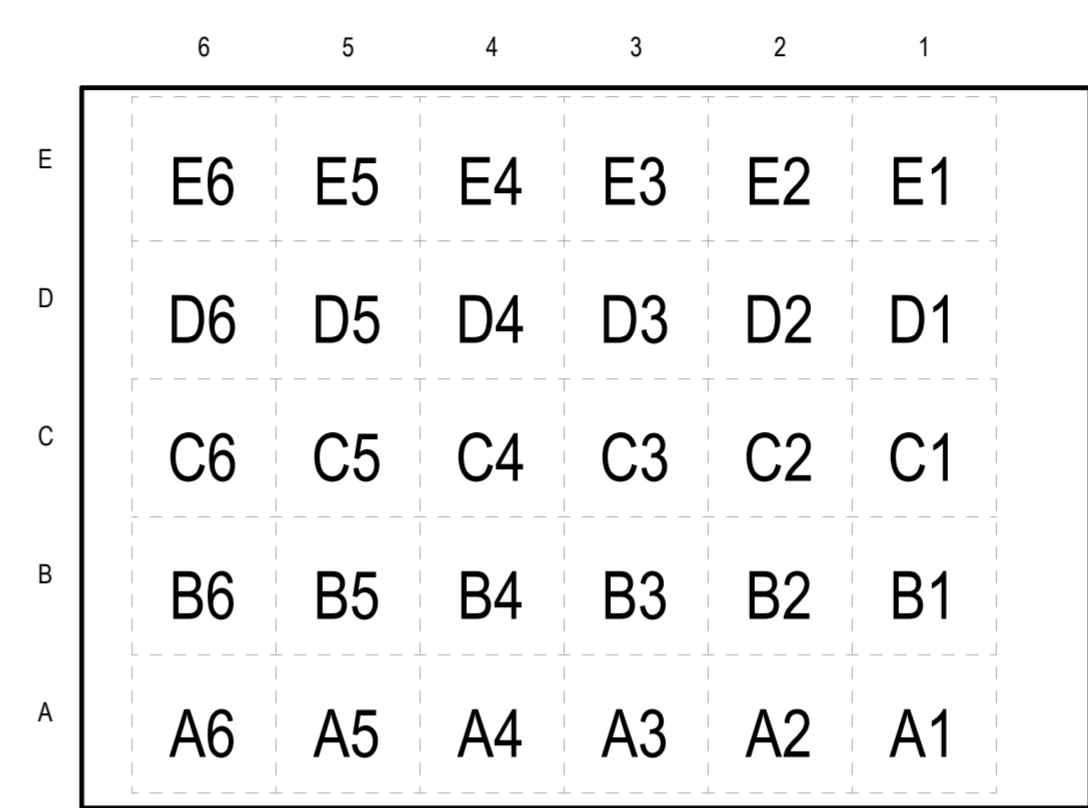
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Sheet Number:

GO03

SHEET NUMBERS



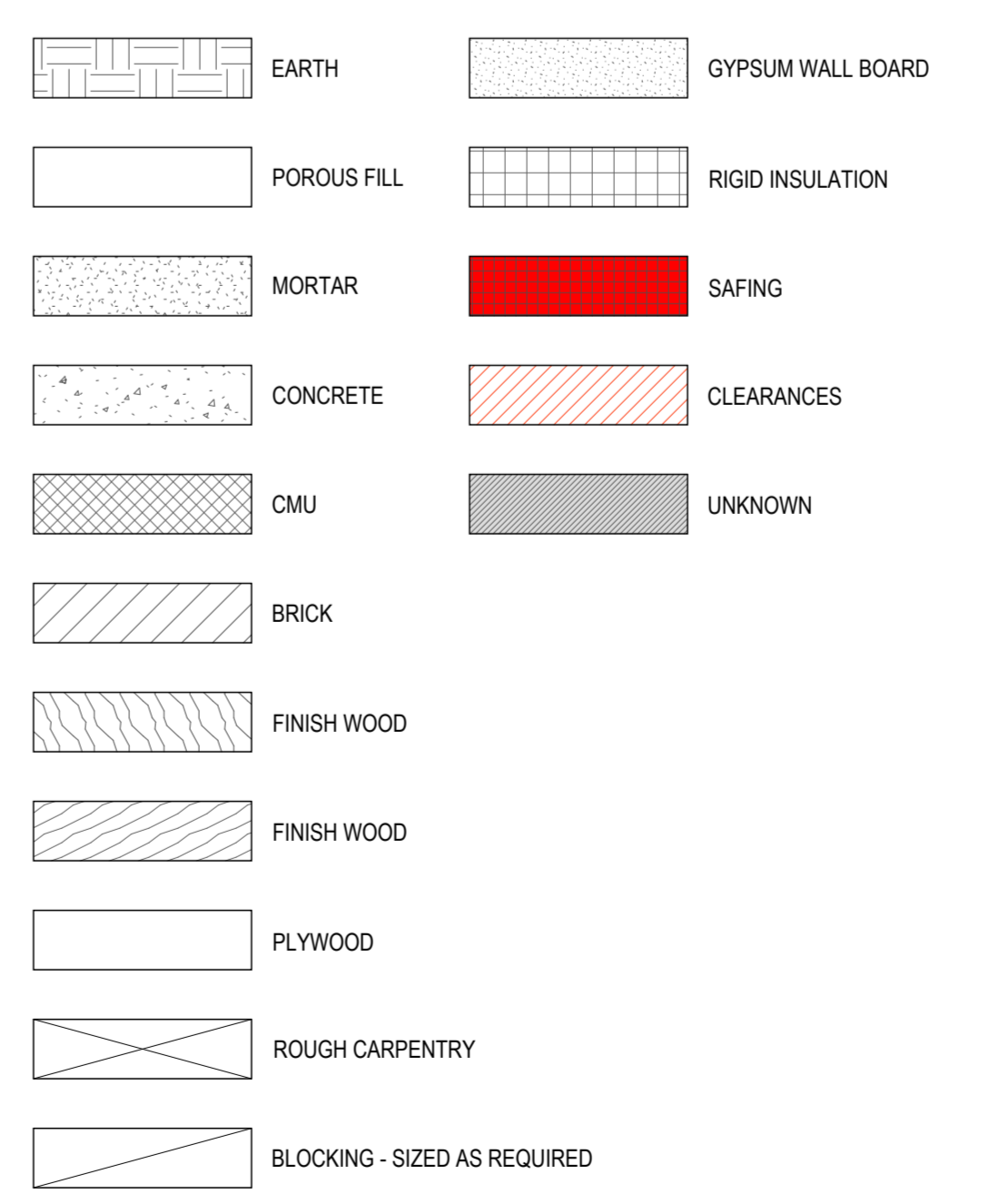
SHEET LAYOUT



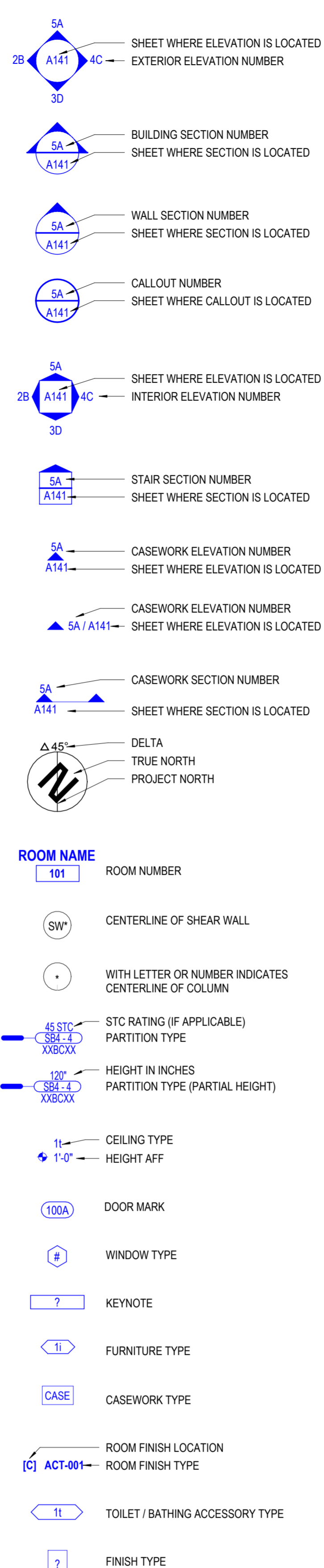
COLOR CODING



MATERIALS



SYMBOLS



ABBREVIATIONS

Table with columns: ABBREVIATION, WORD / PHRASE. Lists various construction terms and their abbreviations such as ACC (ACCESSIBLE), ACP (ACOUSTIC CEILING PANEL), ADA (AMERICANS WITH DISABILITIES ACT), etc.

6

5

4

3

2

1

6

5

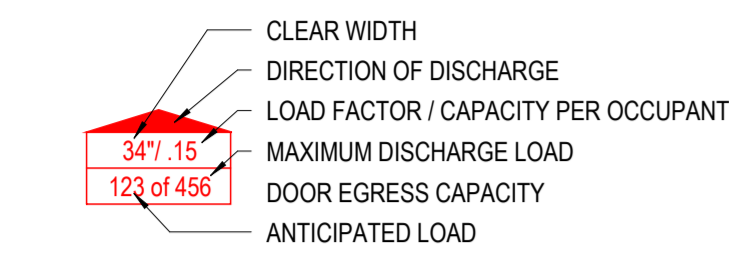
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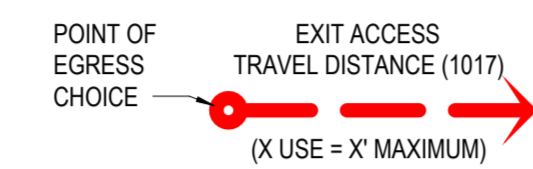
LIFE SAFETY SYMBOLS



FIRE PROTECTION & ALARM DEVICES (IBC 906 -908)



TRAVEL DISTANCE LIMITATIONS (IBC 1017)



LIFE SAFETY GENERAL NOTES

- FIRE EXTINGUISHER CABINETS SHALL BE LOCATED SO THAT THE MAXIMUM TRAVEL DISTANCE SHALL NOT EXCEED 75'-0" (906.3).
- MINIMUM EGRESS WIDTH PER OCCUPANT AT OTHER EGRESS COMPONENTS = 0.2' PER OCCUPANT. (1005.3.2)

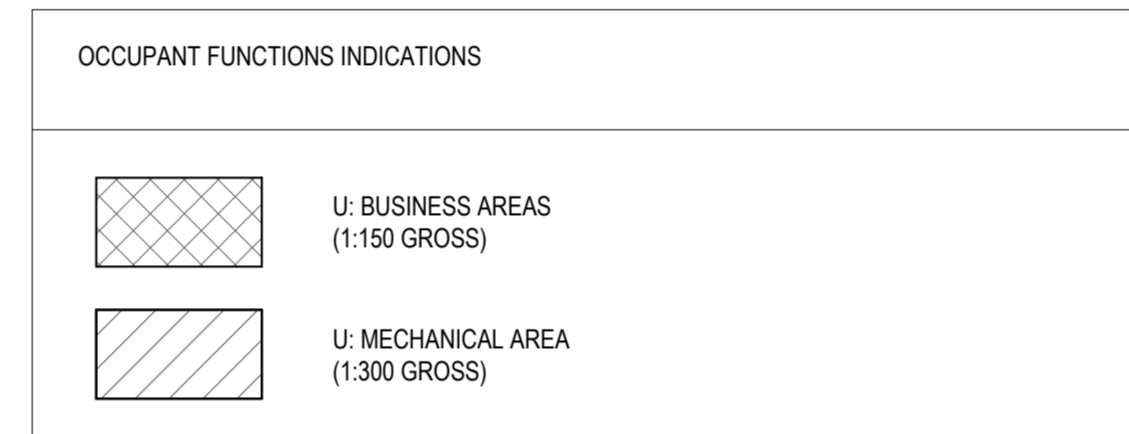
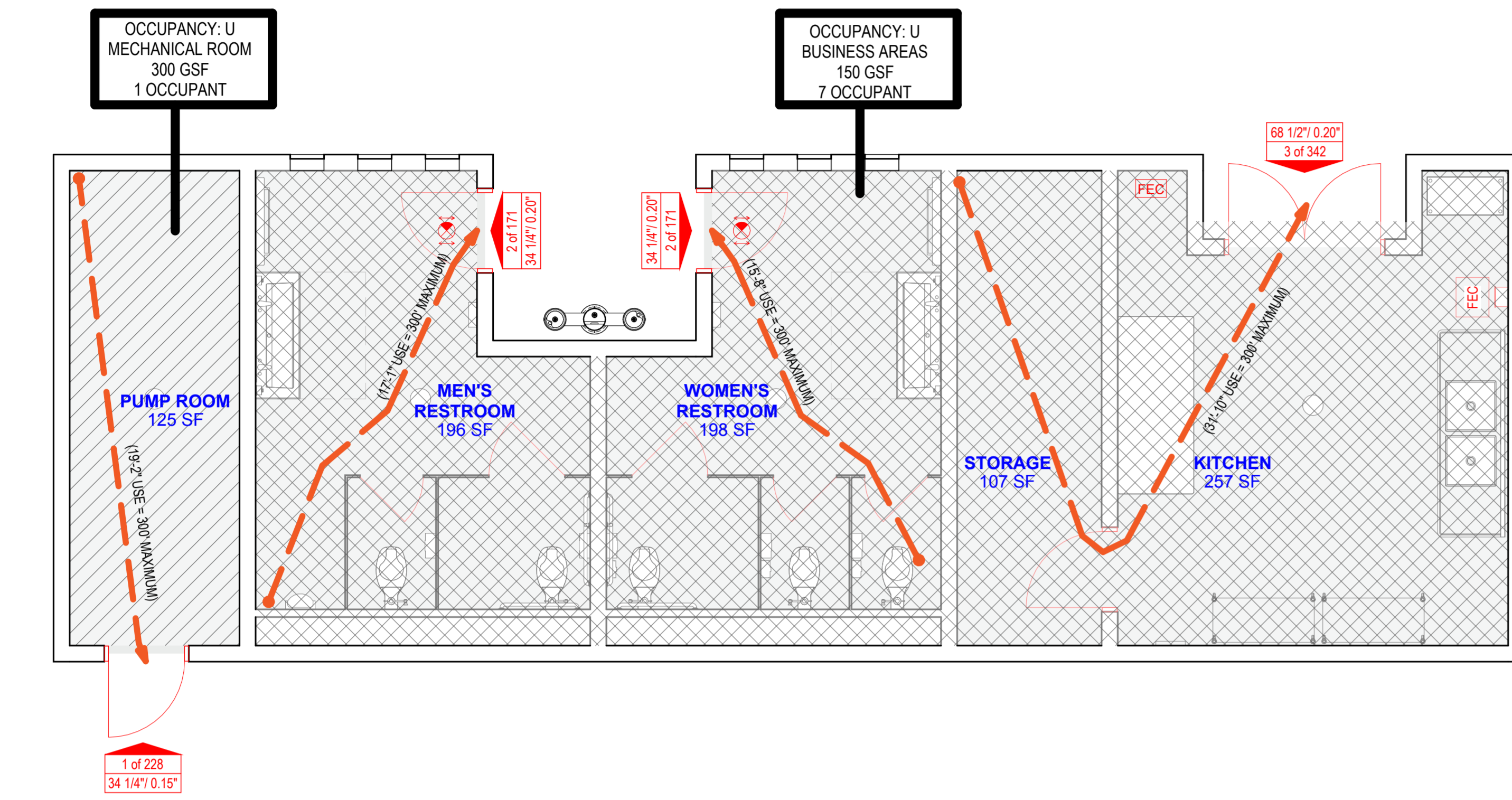
Client

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CLEMSON, SC 29631

Consultants

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Greenville, SC 29601
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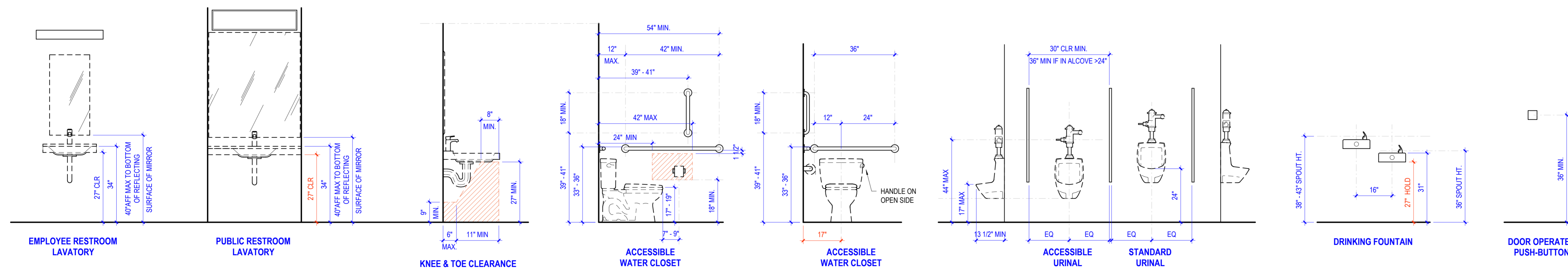
Keyplan



C6 LEVEL 01 - LIFE SAFETY PLAN

1/4" = 1'-0" DRAWING REF: A3 / A201

NOTE: EQUIPMENT AND TYPE INDICATED IN DIAGRAM MAY OR MAY NOT BE USED ON THIS PROJECT AND SHOWN FOR ILLUSTRATION PURPOSES ONLY. REFER TO EQUIPMENT PLAN(S), INTERIOR ELEVATIONS, ETC. FOR LOCATION AND QUANTITIES OF ITEMS.



TOILET MOUNTING HEIGHT DIAGRAM (ANSI A117.1-2017 602-606)

NOTE: EQUIPMENT INDICATED IN DIAGRAM MAY OR MAY NOT BE USED ON THIS PROJECT. REFER TO EQUIPMENT PLAN(S), INTERIOR ELEVATIONS, ETC. FOR LOCATION AND QUANTITIES OF ITEMS. CONFIRM WITH OWNER ALL REQUIREMENTS FOR OWNER FURNISHED, CONTRACTOR INSTALLED (OFCI) ITEMS.

TOILET ACCESSORY	TBA-1A	TBA-1B	TBA-1C	TBA-1D	TBA-1E	TBA-2A	TBA-2B	TBA-3	TBA-4	TBA-5	TYPE MARK	TBA-7	TBA-8	TBA-9A	TBA-9B	TBA-10
ILLUSTRATION																
ACCESSORY ITEM	TOILET TISSUE DISPENSER (SINGLE)	TOILET TISSUE DISPENSER (DOUBLE)	TOILET TISSUE DISPENSER (SINGLE JUMBO ROLL)	SEAT COVER DISPENSER	TOILET TISSUE DISPENSER W/ SANITARY NAPKIN	HAND SANITARY NAPKIN DISPOSAL	AUTOMATIC HAND DRYER	SOAP DISPENSER	MIRROR (FULL FRAME)	GRAB BAR LENGTH	COAT / ROBE HOOK	TOWEL BAR	TOWEL BAR (W/ FOLDING SHELF)	BABY CHANGING STATION	DRINKING FOUNTAIN / BOTTLE FILLER	
RESPONSIBILITY	NA	CONTRACTOR	NA	NA	NA	CONTRACTOR	CONTRACTOR	CONTRACTOR	CONTRACTOR	CONTRACTOR	CONTRACTOR	NA	NA	CONTRACTOR	CONTRACTOR	
BLOCKING TYPE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
MANUFACTURER	NA	BOBRICK	NA	NA	NA	BOBRICK	BOBRICK	BOBRICK	BOBRICK	BOBRICK	BOBRICK	NA	NA	BOBRICK	ELKAY	
MODEL NUMBER	NA	B-9890	NA	NA	NA	B-35139	B-7179	B-2013	B-290 2436	B-6806	B-9542	NA	NA	KB310-SSWM	LK4430BF1UFRK	

TOILET & BATHING ACCESSORIES MOUNTING DIAGRAM (ANSI A117.1-2017 604-609)

1 10/1/2024 90% CONSTRUCTION DOCUMENTS



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CLEMSON, SOUTH CAROLINA

Project Number: 21017.01
Status & Date: 1 11/01/2024

Sheet Title:
A LIFE SAFETY & GENERAL MOUNTING LOCATIONS

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Sheet Number:

G110

GENERAL DEMOLITION NOTES

1. PRIOR TO PROCEEDING WITH ANY WORK UNDER THIS CONTRACT, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL NECESSARY SAFEGUARDS TO MAINTAIN ALL PARTS OF THE EXISTING SITE AND BUILDINGS IN A SAFE CONDITION THROUGHOUT THE ENTIRE CONSTRUCTION PERIOD. THE CONTRACTOR SHALL PROTECT THE EXISTING BUILDING, ITS CONTENTS AND ALL BUILDING MECHANICAL, ELECTRICAL, FIRE PROTECTION, TELECOMMUNICATIONS AND ALL OTHER MISCELLANEOUS SYSTEMS FROM DAMAGE AT ALL TIMES. ALL DAMAGES RESULTING DIRECTLY OR INDIRECTLY FROM THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED TO A LIKE NEW CONDITION AT THE CONTRACTOR'S EXPENSE WITHOUT ANY ADDITIONAL COST TO THE OWNER.
2. IF ASBESTOS CONTAINING MATERIAL IS DISCOVERED DURING THE CONSTRUCTION PROJECT, THE CONTRACTOR SHALL IMMEDIATELY SUSPEND OPERATIONS IN THE AFFECTED AREA AND NOTIFY THE OWNER'S PROJECT REPRESENTATIVE. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT HIS PERSONAL, SUBCONTRACTORS AND ALL SITE VISITORS FROM EXPOSURE TO THE ASBESTOS CONTAINING MATERIAL.
3. CONFIRM EXISTING PAINT HAS BEEN TESTED AND DETERMINED TO CONTAIN LEAD ABOVE THE MINIMUM DETECTION LIMIT. ALL EXISTING MATERIALS SHALL BE ASSUMED TO BE PAINTED UNLESS INDICATED OTHERWISE. PERFORM ALL WORK ON EXISTING PAINTED MATERIALS IN ACCORDANCE WITH CONTRACTORS LEAD PAINT COMPLIANCE PLAN.
4. UNLESS LIGHT BALLASTS ARE CLEARLY LABELED PCB FREE AND LIGHT FIXTURE BULBS ARE IDENTIFIED AS LOW MERCURY AND HAVE DOCUMENTATION INDICATING THAT THE LAMPS PASS TOXIC CHARACTERISTIC LEACHING PROCEDURE (TCLP) TESTING, REMOVE ALL EXISTING LIGHT BALLASTS AND LAMPS AS PCB AND MERCURY CONTAMINATED MATERIALS AND DISPOSE OF ACCORDANCE WITH EPA, FEDERAL AND STATE REGULATIONS REGARDING DISPOSAL OF HAZARDOUS MATERIALS.
5. DEMOLITION NOTES IN THIS SECTION DO NOT INDICATE LOCATIONS OF HAZARDOUS MATERIALS OR REQUIREMENTS FOR HAZARDOUS MATERIAL REMOVAL. SEE OWNER'S INDEPENDENT HAZARDOUS MATERIAL SURVEY FOR TYPES AND LOCATIONS OF SUSPECTED HAZARDOUS MATERIALS.
6. DEMOLITION DRAWINGS AND PHOTOS ARE FOR REFERENCE ONLY. THE SCOPE OF THIS PROJECT INCLUDES THE DEMOLITION OF THE EXISTING PARK STRUCTURE AND ASSOCIATED CONCRETE SLAB IN ITS ENTIRETY. GO TO VERIFY IN FIELD WHAT THE FULL DEMOLITION SCOPE SHALL BE. SEE STRUCTURAL DRAWINGS FOR INFORMATION REGARDING EXISTING FOOTINGS. SEE CIVIL & LANDSCAPE FOR DEMOLITION OF EXISTING PLAY AREA AND STRUCTURE AND OTHER SITE RELATED DEMOLITION.
7. THE CONTRACTOR SHALL PROTECT THE EXISTING FACILITIES AT ALL TIMES DURING THE COURSE OF CONSTRUCTION. ALL DAMAGES CAUSED AS A RESULT OF HIS ACTIVITIES SHALL BE REPAIRED AT NO ADDITIONAL COST TO THE OWNER. IN GENERAL, PATCH, REPAIR, REMODELING AND RENOVATION WORK IS INTENDED TO MATCH, COMPLEMENT AND ALIGN WITH EXISTING CONDITIONS.
8. CAP AND SEAL EXISTING MEP CONNECTIONS AS REQUIRED. SEE MEP SHEETS FOR ADDITIONAL INFORMATION.
9. PROVIDE DUST AND VIBRATION PROTECTION THROUGHOUT THE CONSTRUCTION PROCESS AS REQUIRED TO MEET THE OWNER'S REQUIREMENTS AND FOR THE PROTECTION OF OCCUPANTS AND EXISTING EQUIPMENT.
10. PROTECT EXISTING TREES & ROOT SYSTEMS IN PLACE FOR DURATION OF PROJECT UNLESS OTHERWISE NOTED TO BE REMOVED.

Client

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Project Number: 21017.01
Status & Date: 2
11/01/2024

Sheet Title:
DEMOLITION PLANS & NOTES

PRINT IN COLOR
Sheet Number:

001

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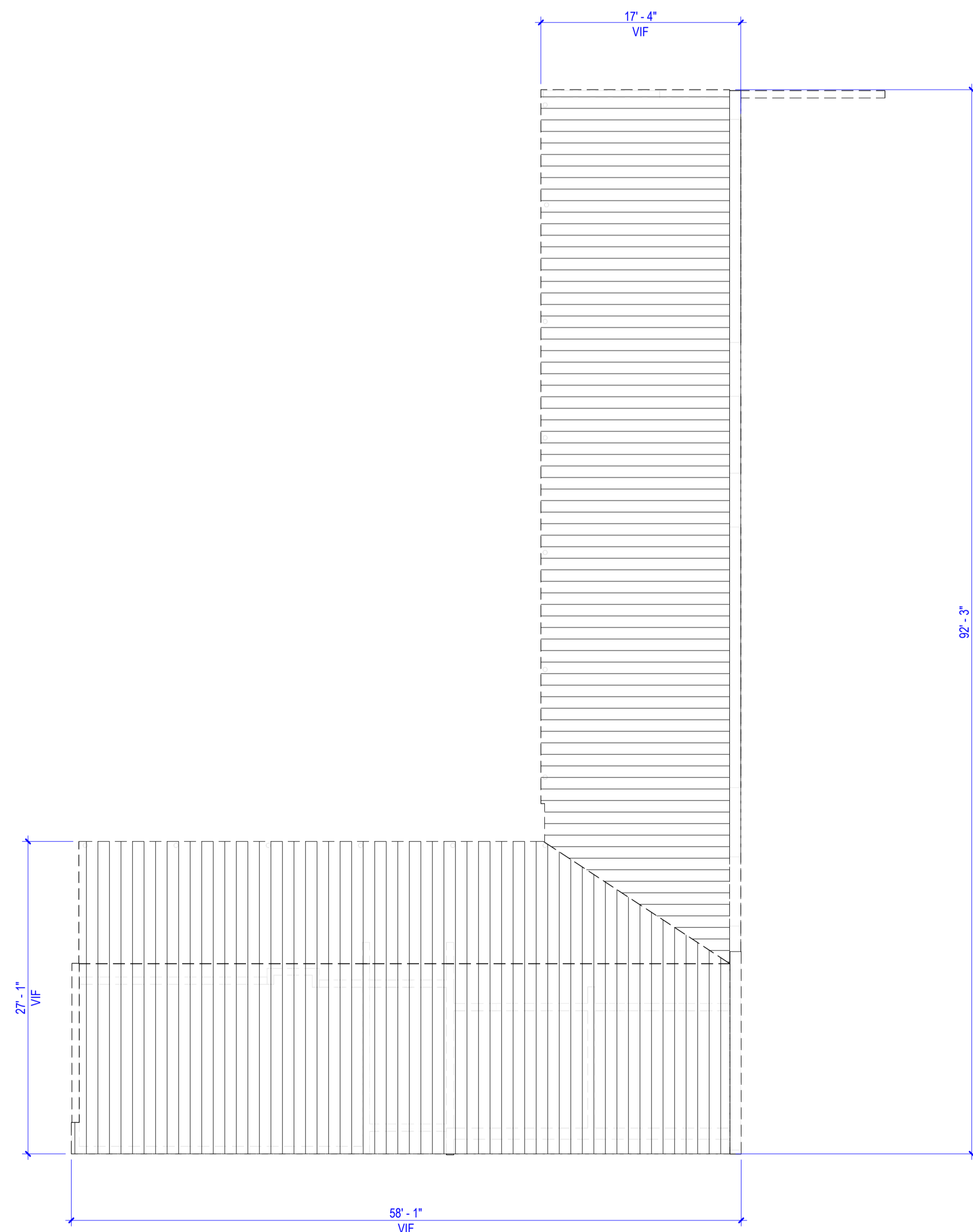
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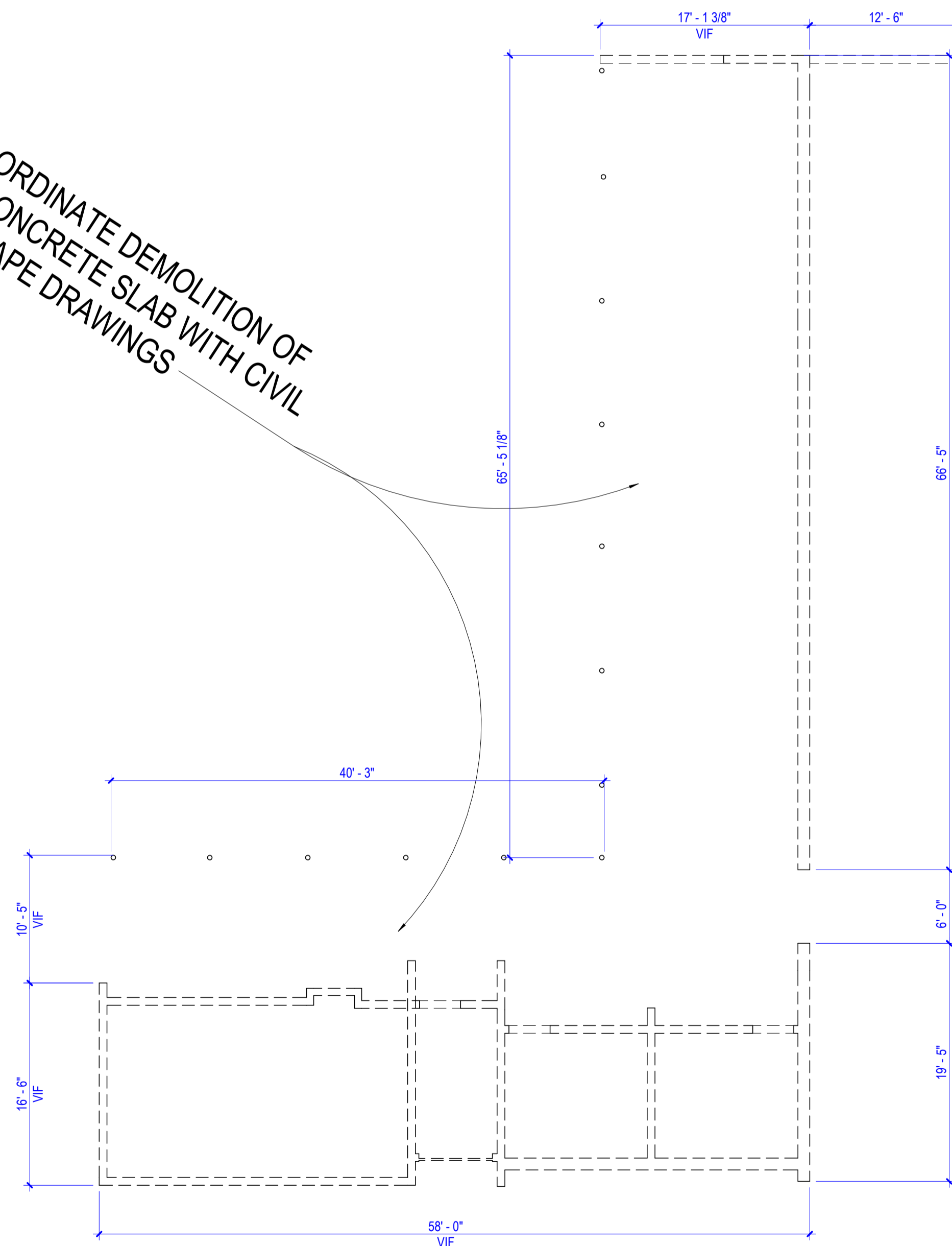
B

A



A6 ROOF DEMO
1/8" = 1'-0" DRAWING REF: A3 / A201

NOTE: COORDINATE DEMOLITION OF EXISTING CONCRETE SLAB WITH CIVIL AND LANDSCAPE DRAWINGS



A3 LEVEL 01 DEMO
1/8" = 1'-0" DRAWING REF: A3 / A201

6 | 5 | 4 | 3 | 2 | 1

HANBURY

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Sheet Title:
A EXISTING PHOTOS

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Sheet Number:
D002

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6

5

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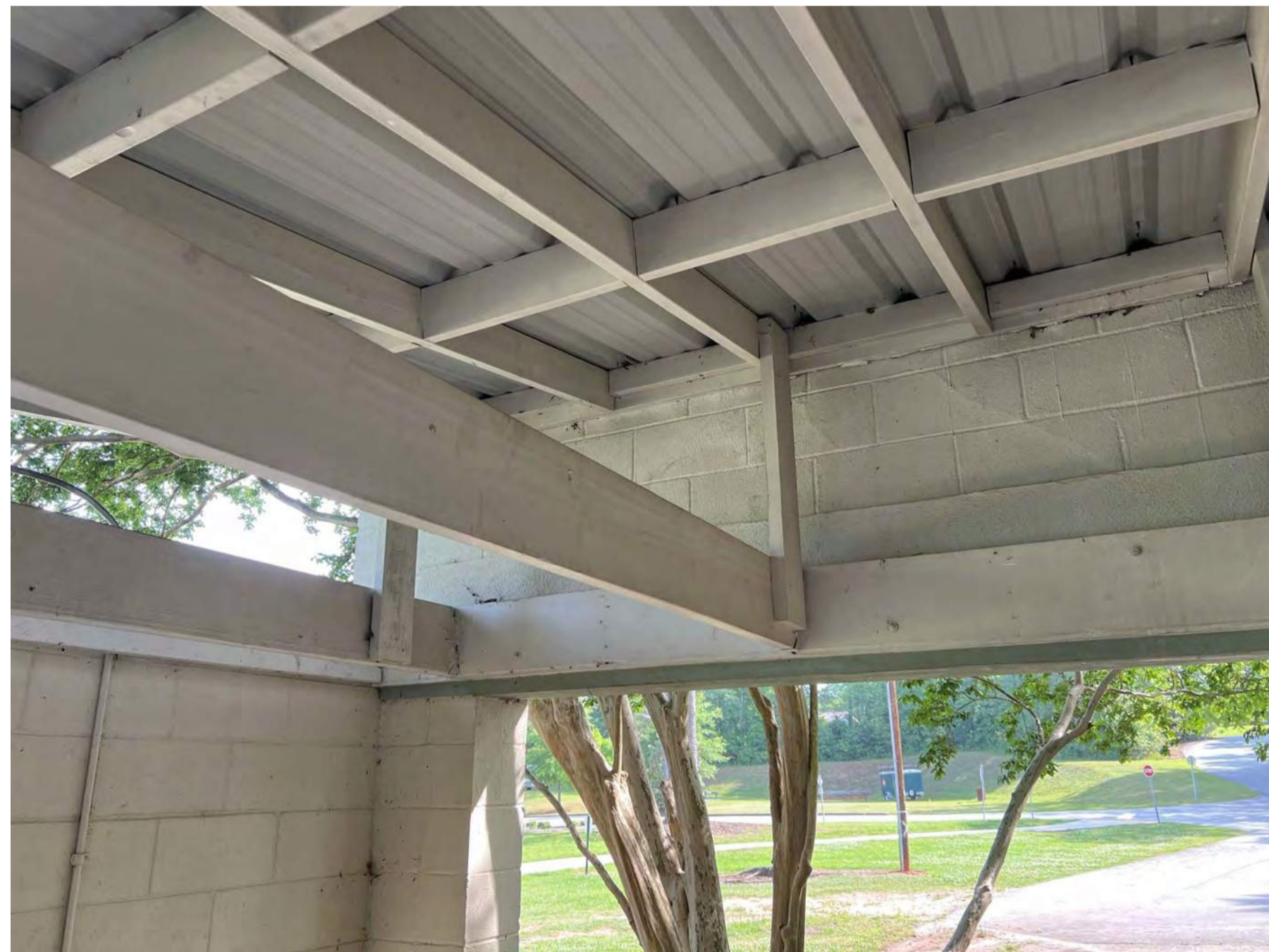
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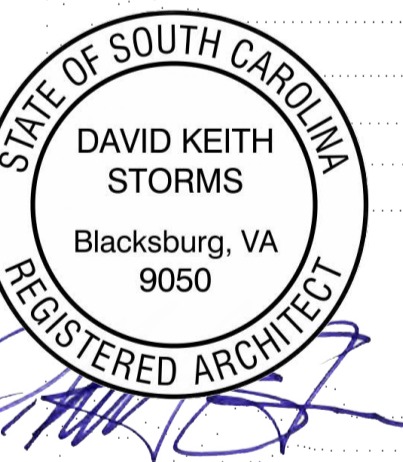
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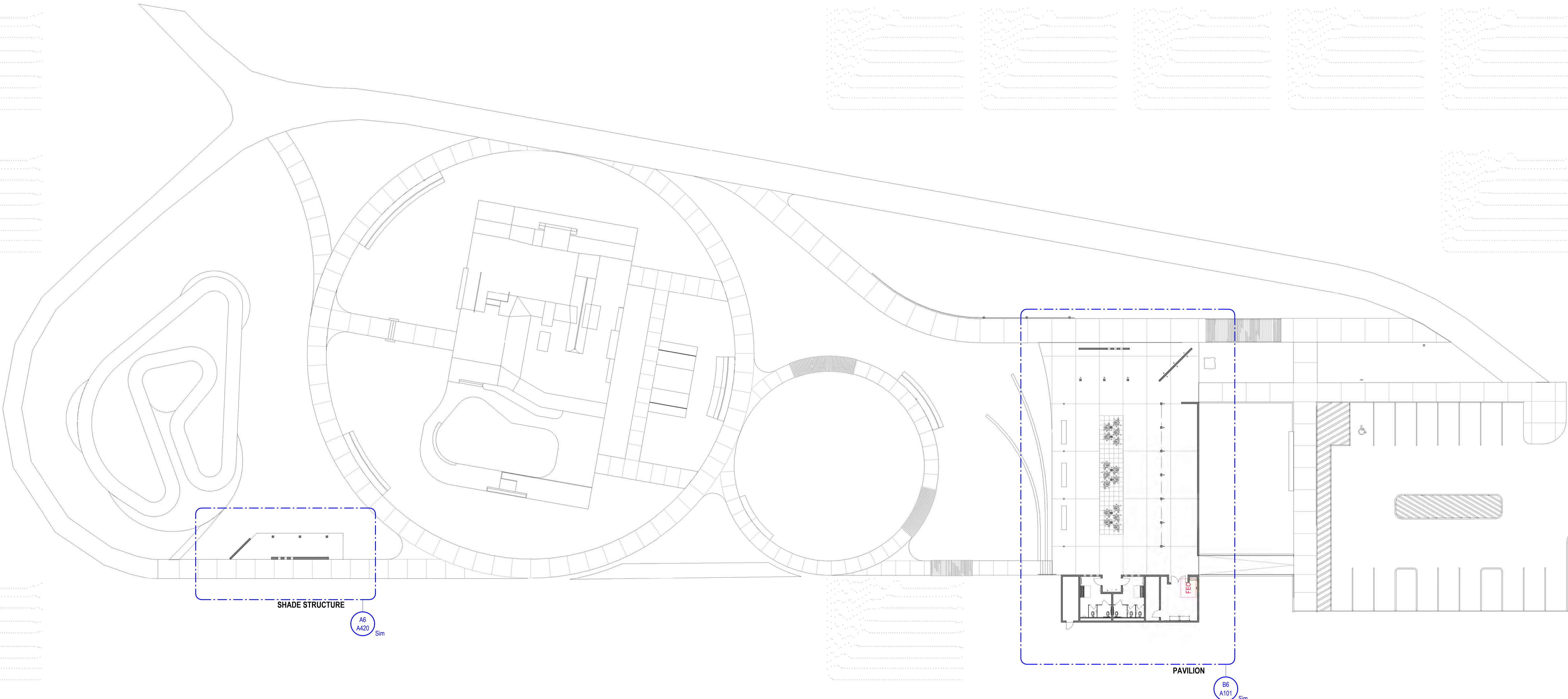


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CLEMSON, SOUTH CAROLINA**

Project Number: 21017.01
Status & Date: 2
11/01/2024

Sheet Title:
A SITE PLAN

Sheet Number:
A001



A6 SITE PLAN

1" = 20'-0" DRAWING REF: A3 / A201

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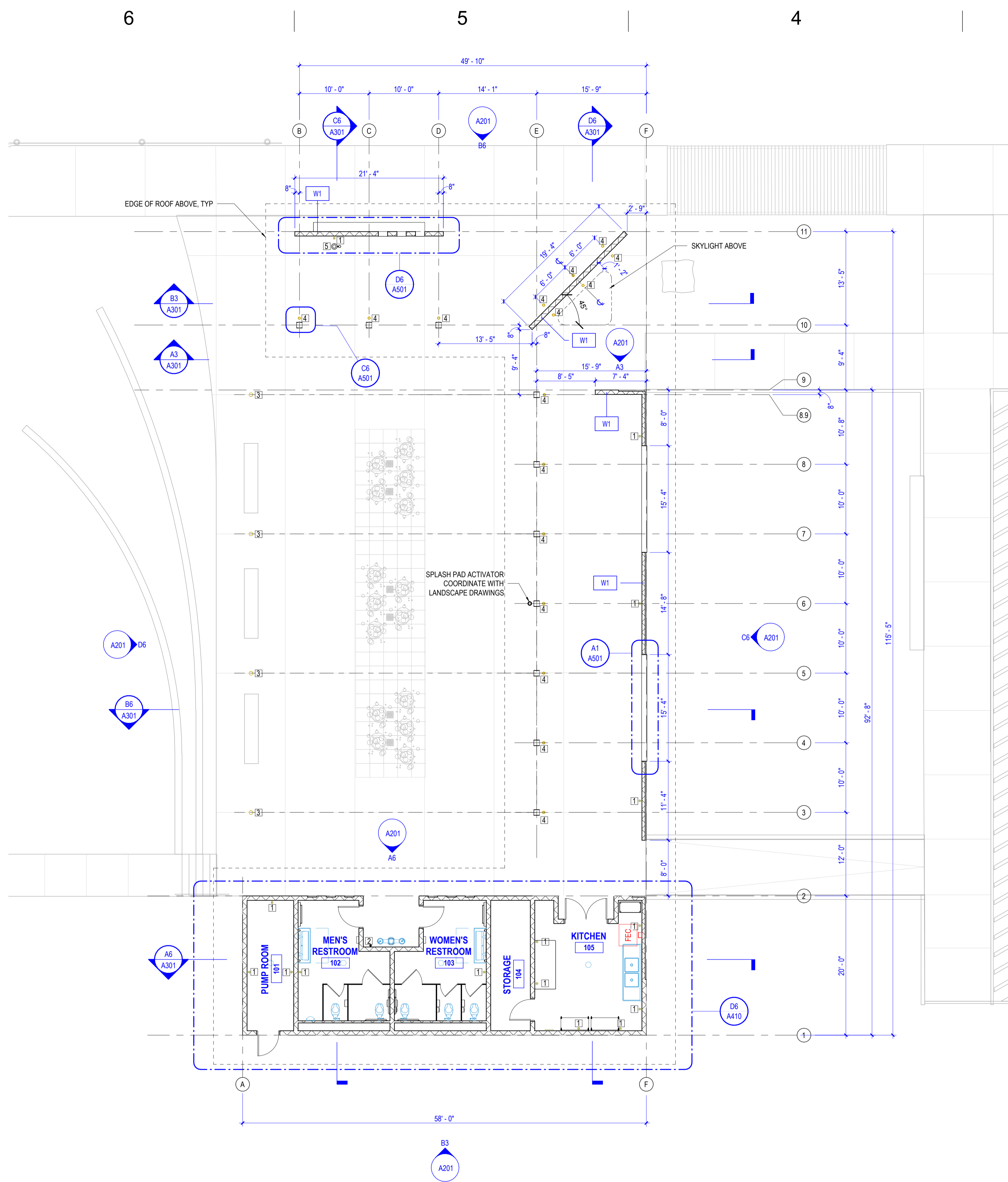


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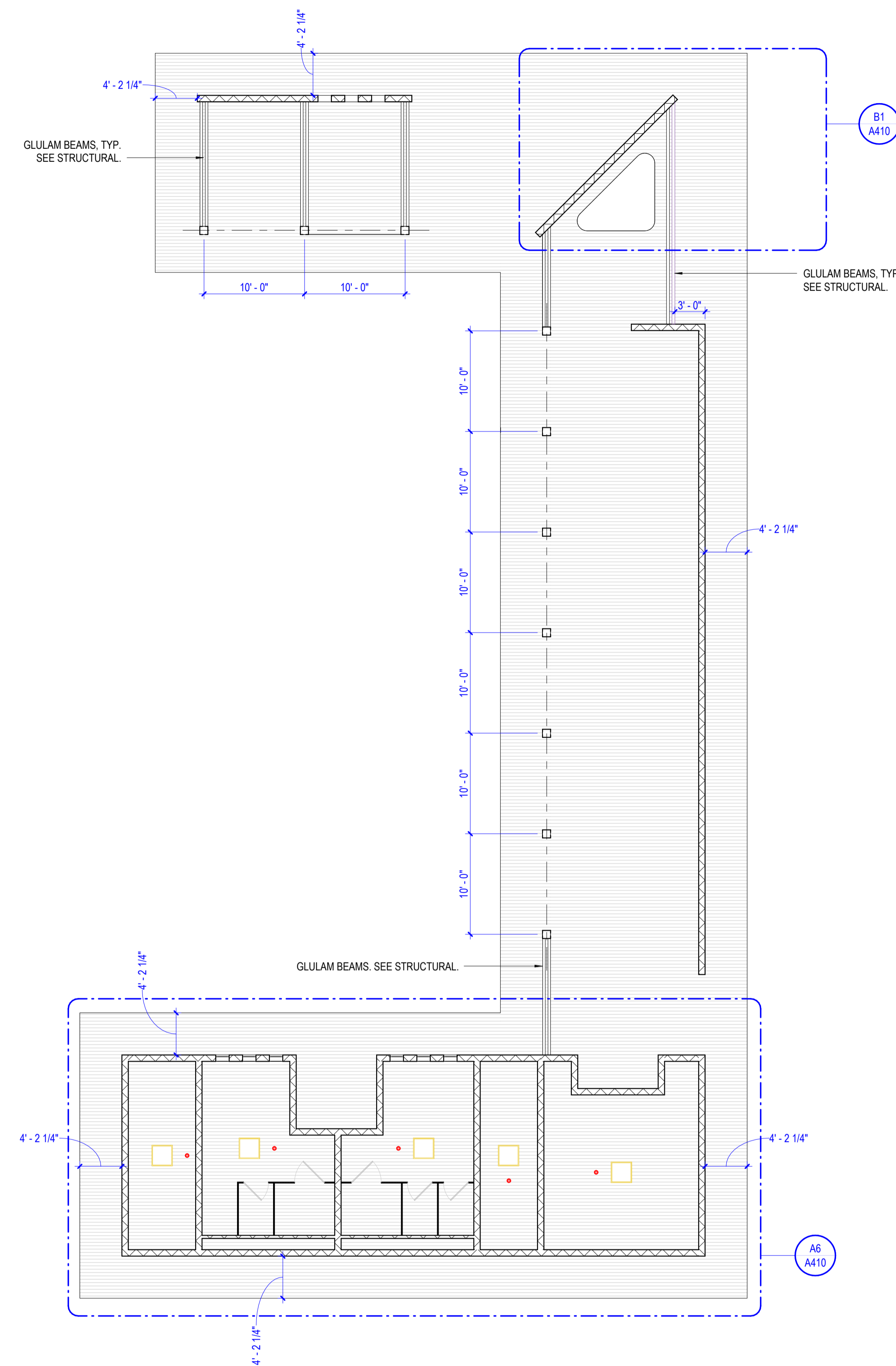
Sheet Title:
FLOOR PLAN / RCP

Sheet Number:
A101



B6 FLOOR PLAN

1/8" = 1'-0" DRAWING REF: A6 / A001



B3 REFLECTED CEILING PLAN

1/8" = 1'-0" DRAWING REF: A3 / A201

PLAN LEGEND

- 1 110V OUTLET RECESSED GFCI PROTECTED WEATHERPROOF HOUSING
- 2 HOSE BIB VANDALL PROOF 3/4" KEY OPERATED
- 3 800 BEGA 84 061 BOLLARD 120-277V AC INSTALLED PER MANUFACTURER'S RECOMMENDATIONS
- 4 800 TYP. BEGA 77 019 IN-GRADE LUMINAIRE 24V DC
- 5 BOD BIKE REPAIR KIT 554BR210-10 FIXIT PLUS WITH AN AIR KIT PRIME - SURFACE MOUNT

RCP LEGEND

- BOD BEGA LARGE-AREA CEILING AND WALL LUMINAIRE 33 311 72.0W 5210 LM 24 1/2 X 24 1/2 X 2 1/4
- EXIT SIGNAGE
- SMOKE DETECTOR

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GENERAL ROOFING NOTES

1. ALL INTERIOR ROOF DRAINS AND OVERFLOW DRAINS TO BE WRAPPED CONTINUOUSLY WITH R13 THERMAL INSULATION FOR MINIMUM OF 10 LINEAR FEET.
2. STANDING SEAM METAL ROOF: B03: M80: TUNDRA.
3. HEAVY GAUGE METAL ROOF TRIM: LIGHT GRAY. COLOR TO MATCH STANDING SEAM METAL ROOF.

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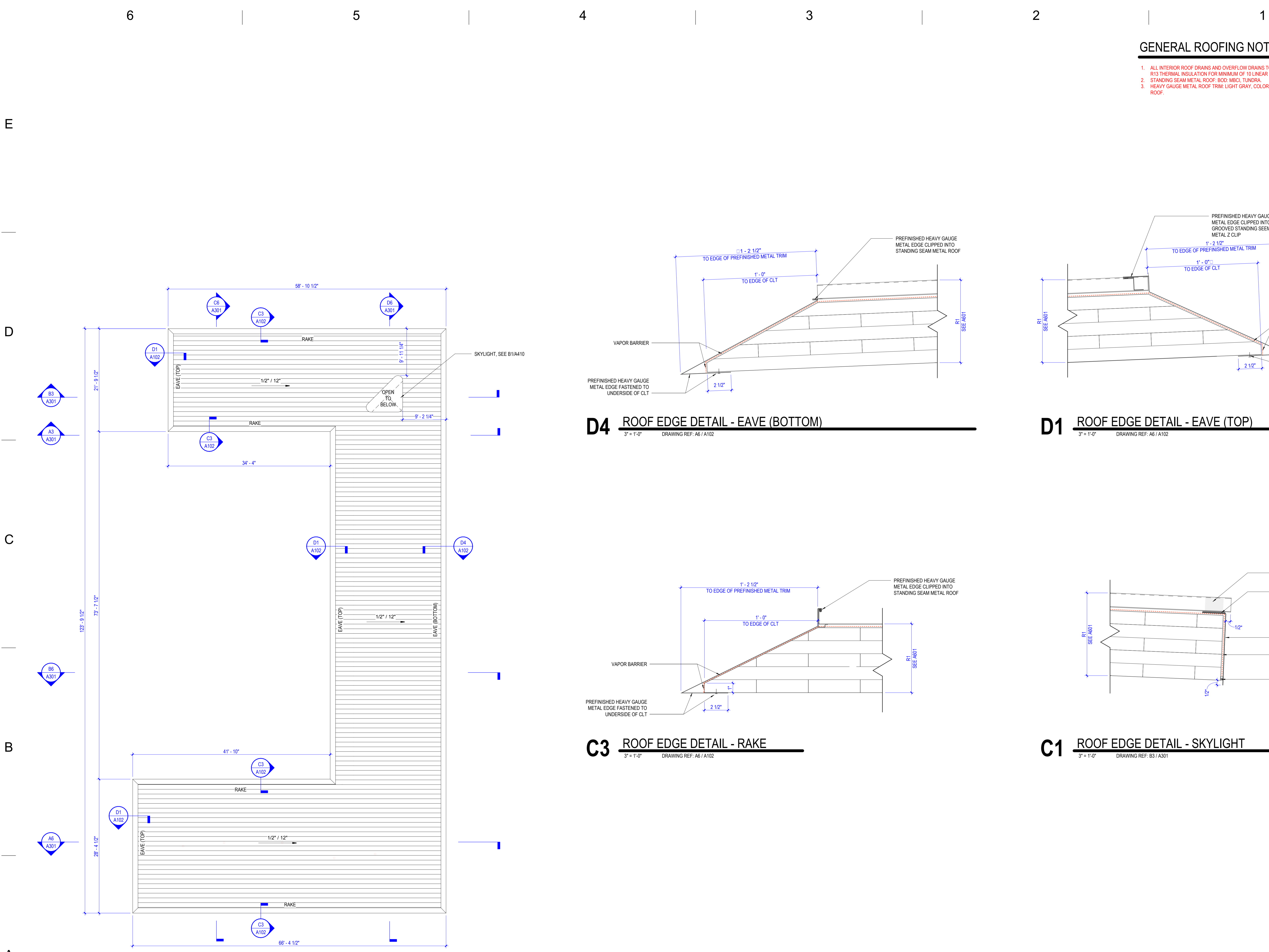


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CLEMSON, SOUTH CAROLINA

Project Number: 21017.01
Status & Date: 2
11/01/2024

Sheet Title:
A ROOF PLAN & DETAILS

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Sheet Number:
A102



A6 ROOF PLAN
1/8" = 1'-0" DRAWING REF: A3 / A201

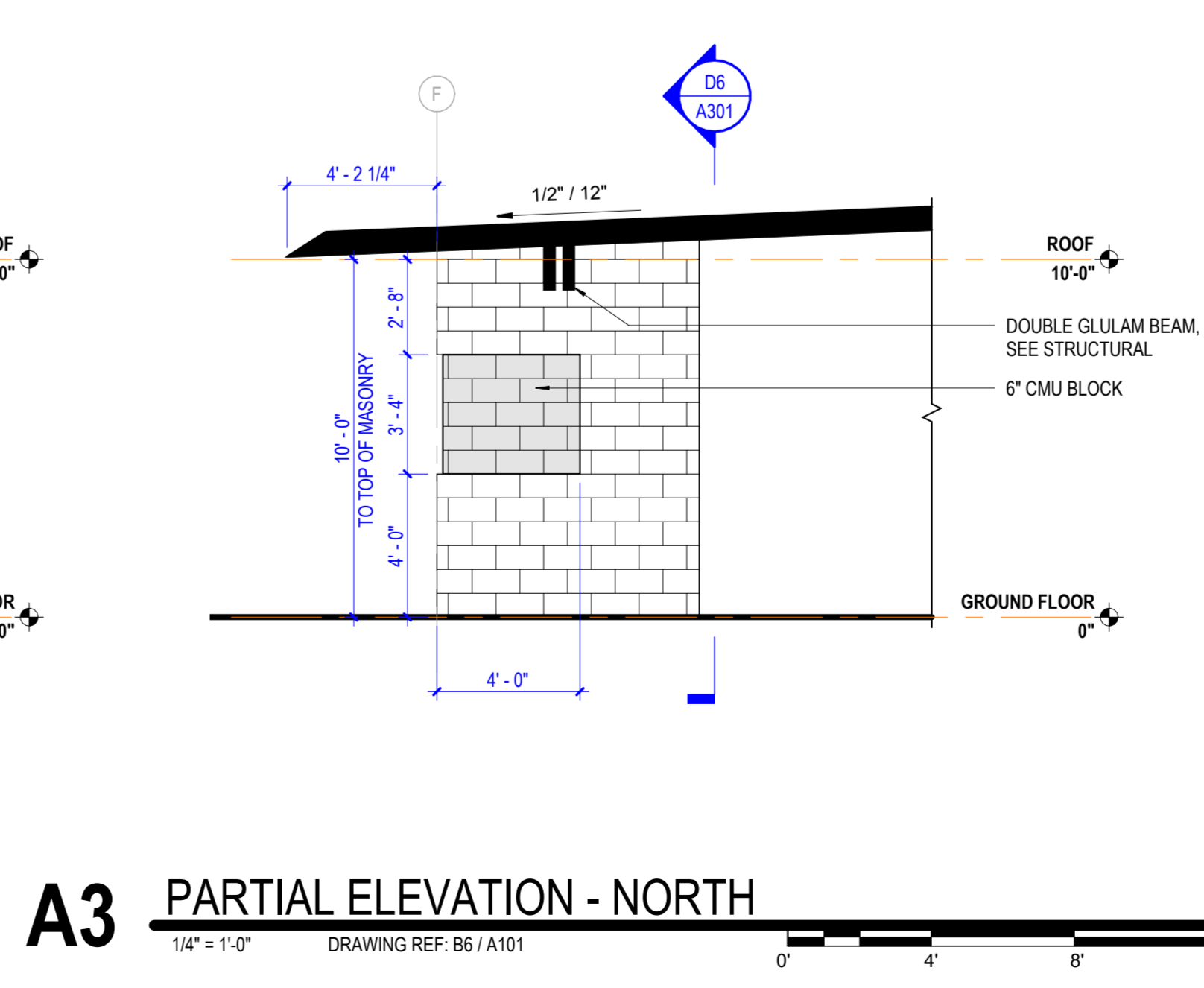
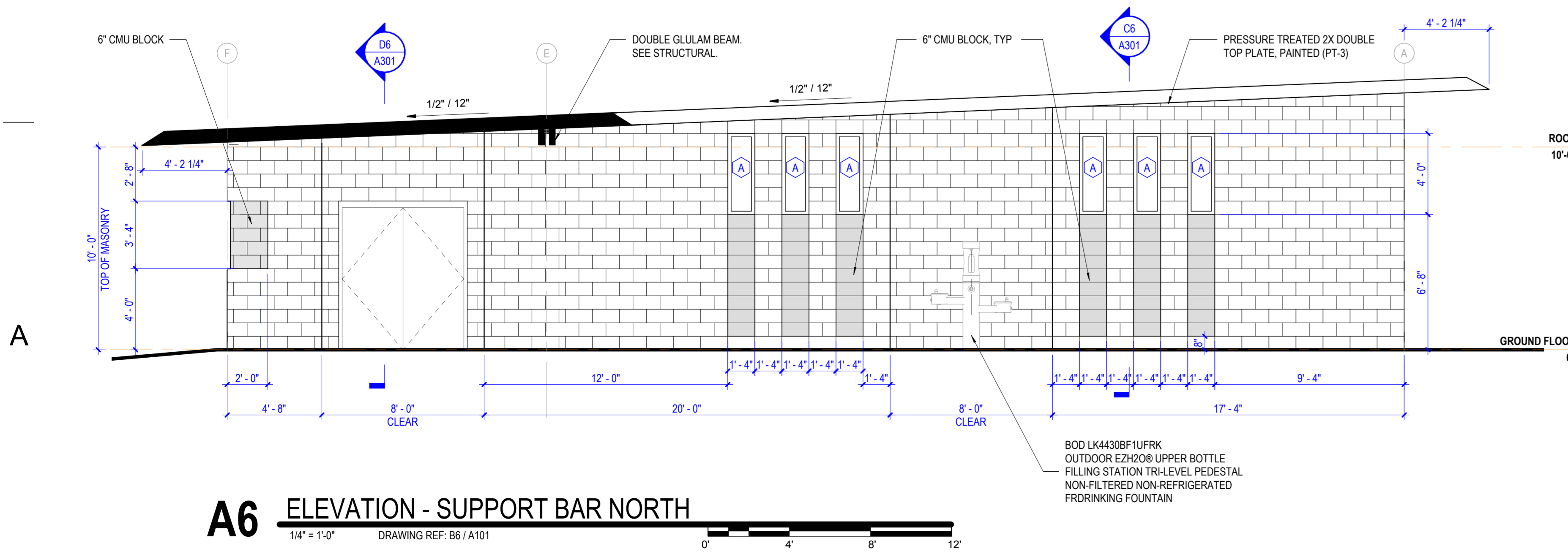
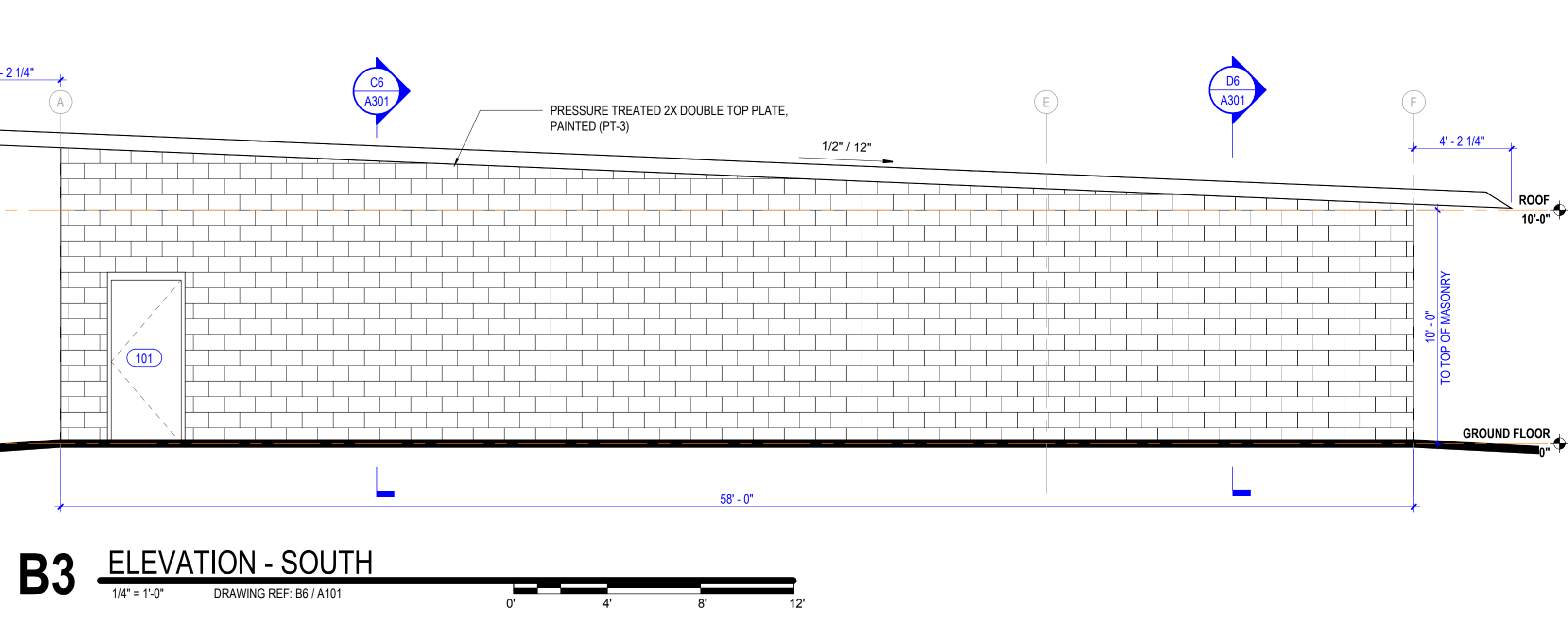
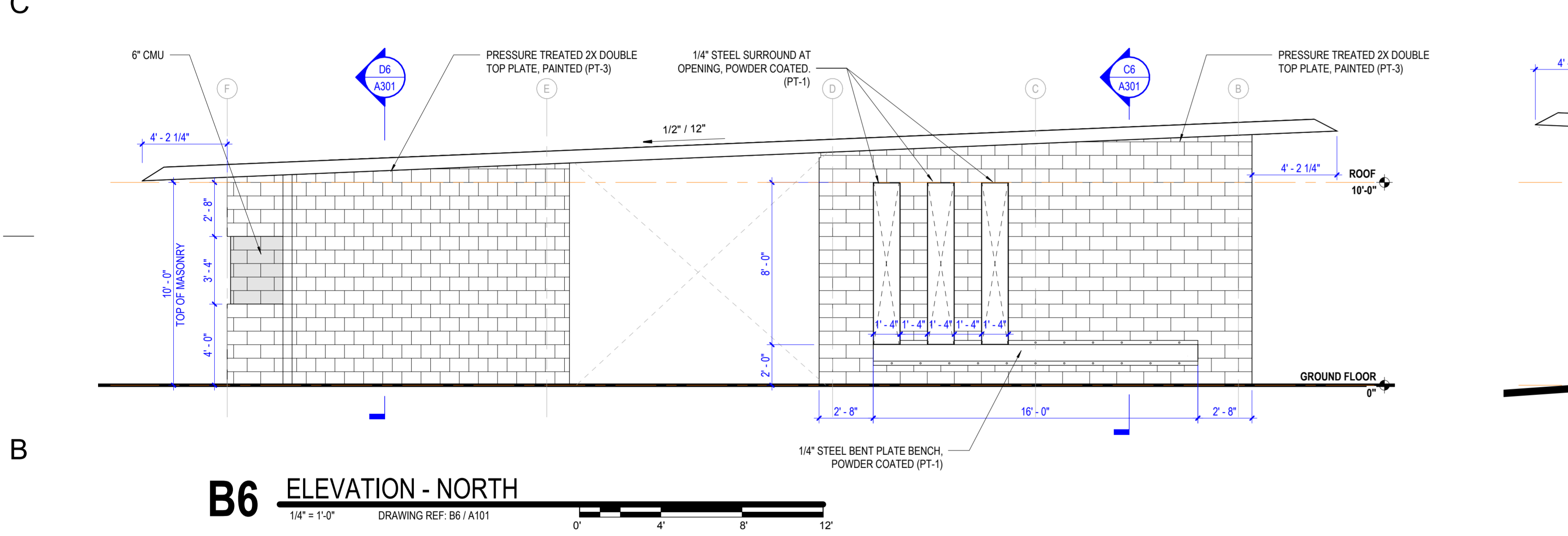
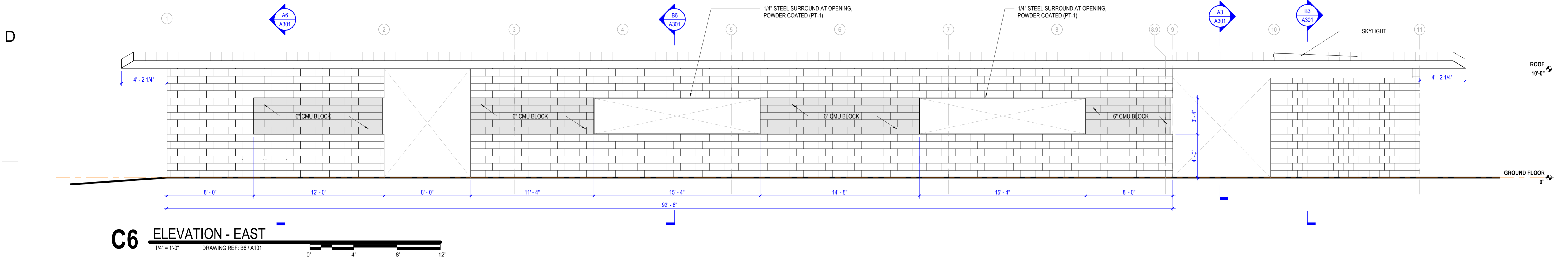
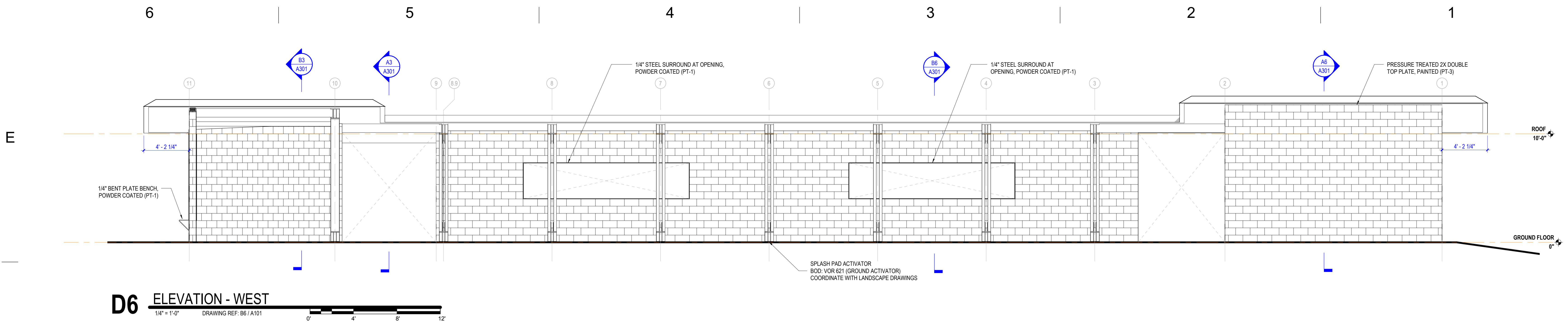
D4 ROOF EDGE DETAIL - EAVE (BOTTOM)
3" = 1'-0" DRAWING REF: A6 / A102

D1 ROOF EDGE DETAIL - EAVE (TOP)
3" = 1'-0" DRAWING REF: A6 / A102

C3 ROOF EDGE DETAIL - RAKE
3" = 1'-0" DRAWING REF: A6 / A102

C1 ROOF EDGE DETAIL - SKYLIGHT
3" = 1'-0" DRAWING REF: B3 / A301

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MATERIAL INDICATIONS

	6" CMU BLOCK BOD: JOHNSON - NIGHT MIST JCL-319.
	5 PLY - CLT

EXTERIOR MATERIAL LIST

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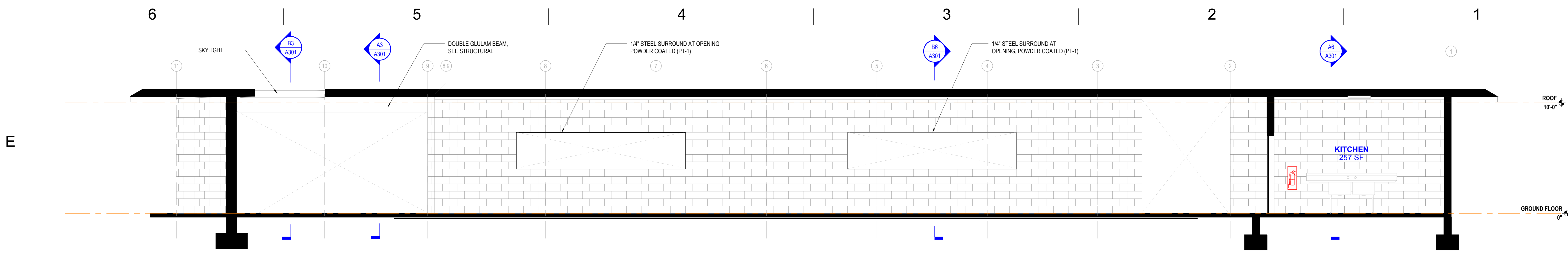


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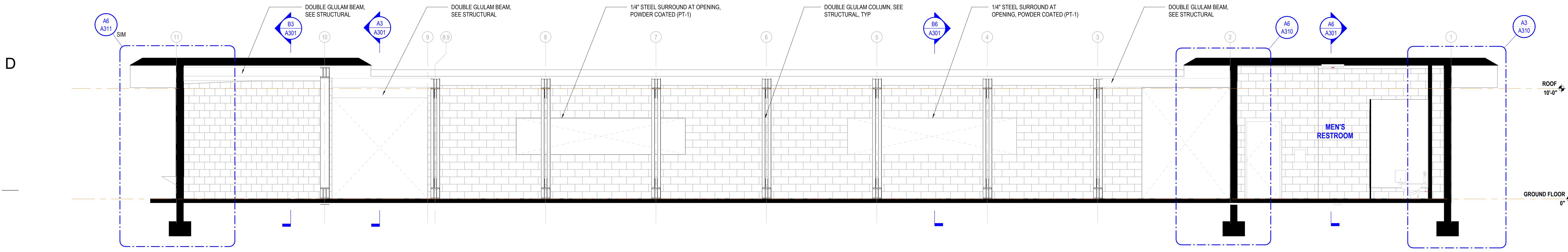
Project Number: 21017.01
Status & Date: 2
11/01/2024

Sheet Title:
BUILDING SECTIONS

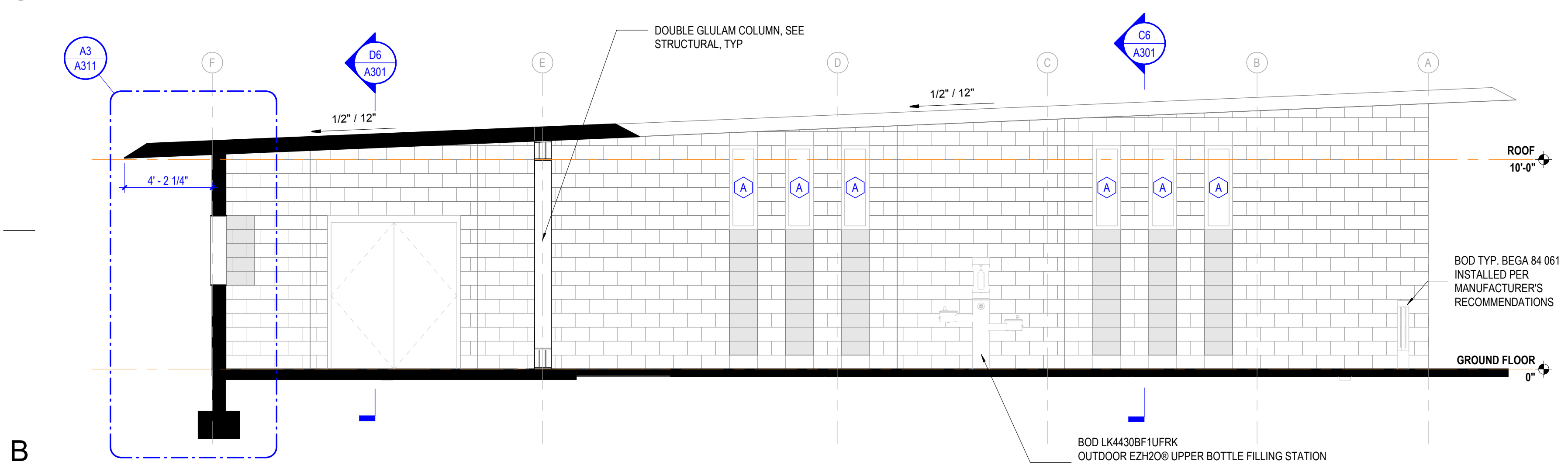
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Sheet Number:
A301



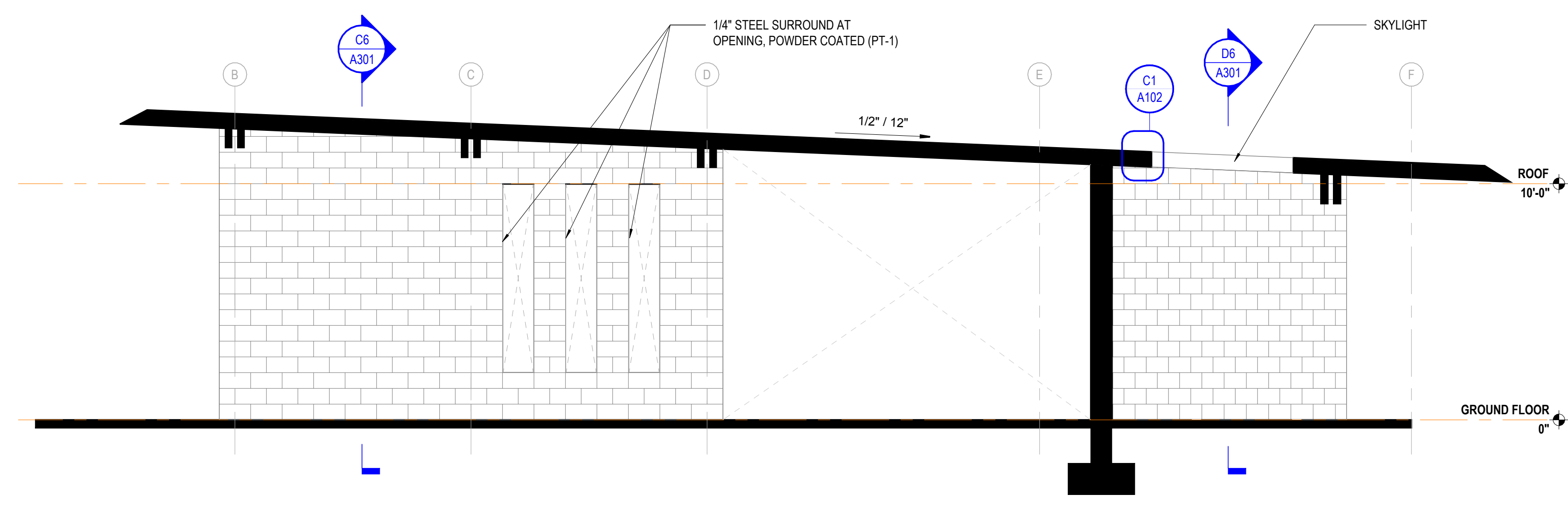
D6 BUILDING SECTION - LONG SECTION 1
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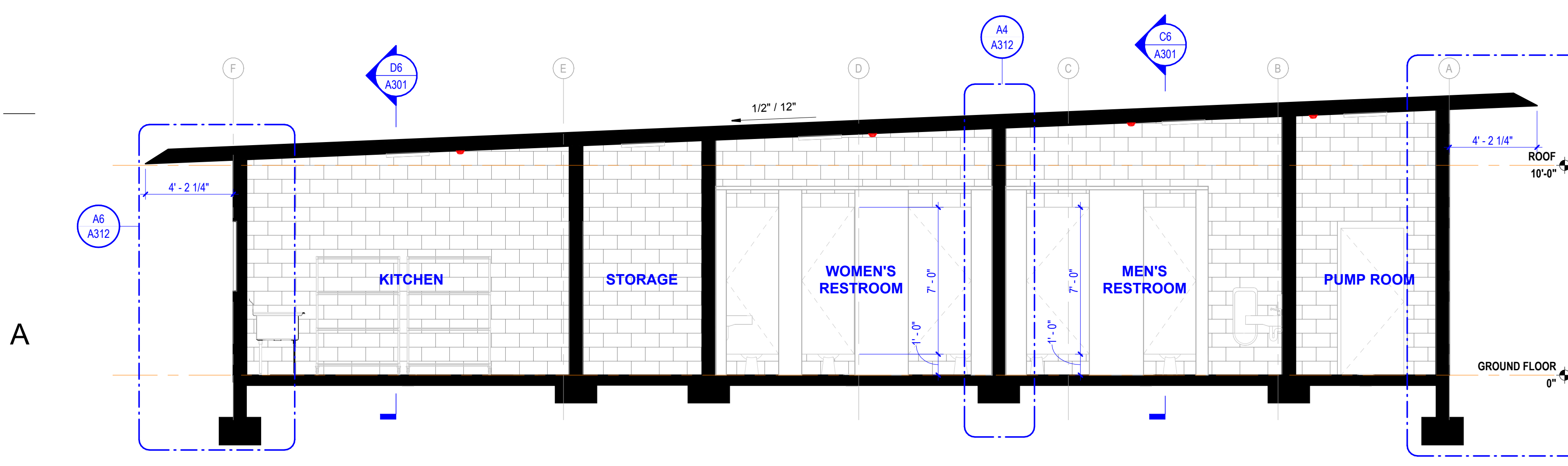
C6 BUILDING SECTION - LONG SECTION 2
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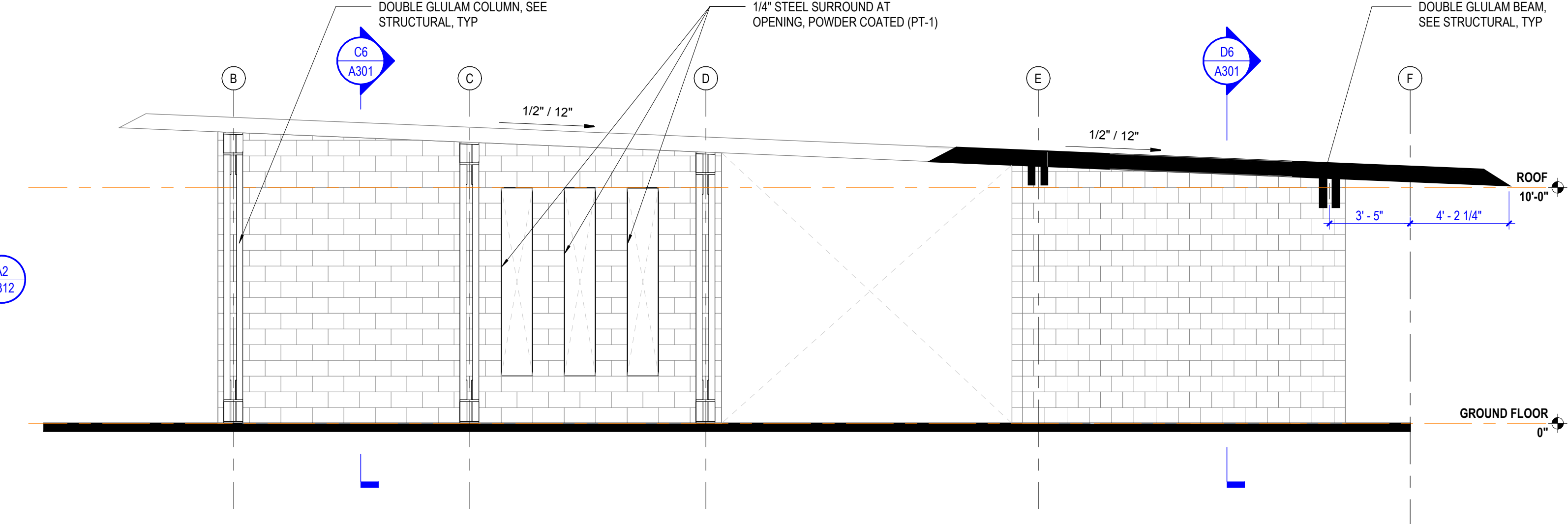
B6 BUILDING SECTION - TRANSVERSE SECTION 4
1/4" = 1'-0" DRAWING REF: B6 / A101



B3 BUILDING SECTION - TRANSVERSE SECTION 1
1/4" = 1'-0" DRAWING REF: B6 / A101



A6 BUILDING SECTION - TRANSVERSE SECTION 2
1/4" = 1'-0" DRAWING REF: B6 / A101



A3 BUILDING SECTION - TRANSVERSE SECTION 3
1/4" = 1'-0" DRAWING REF: B6 / A101

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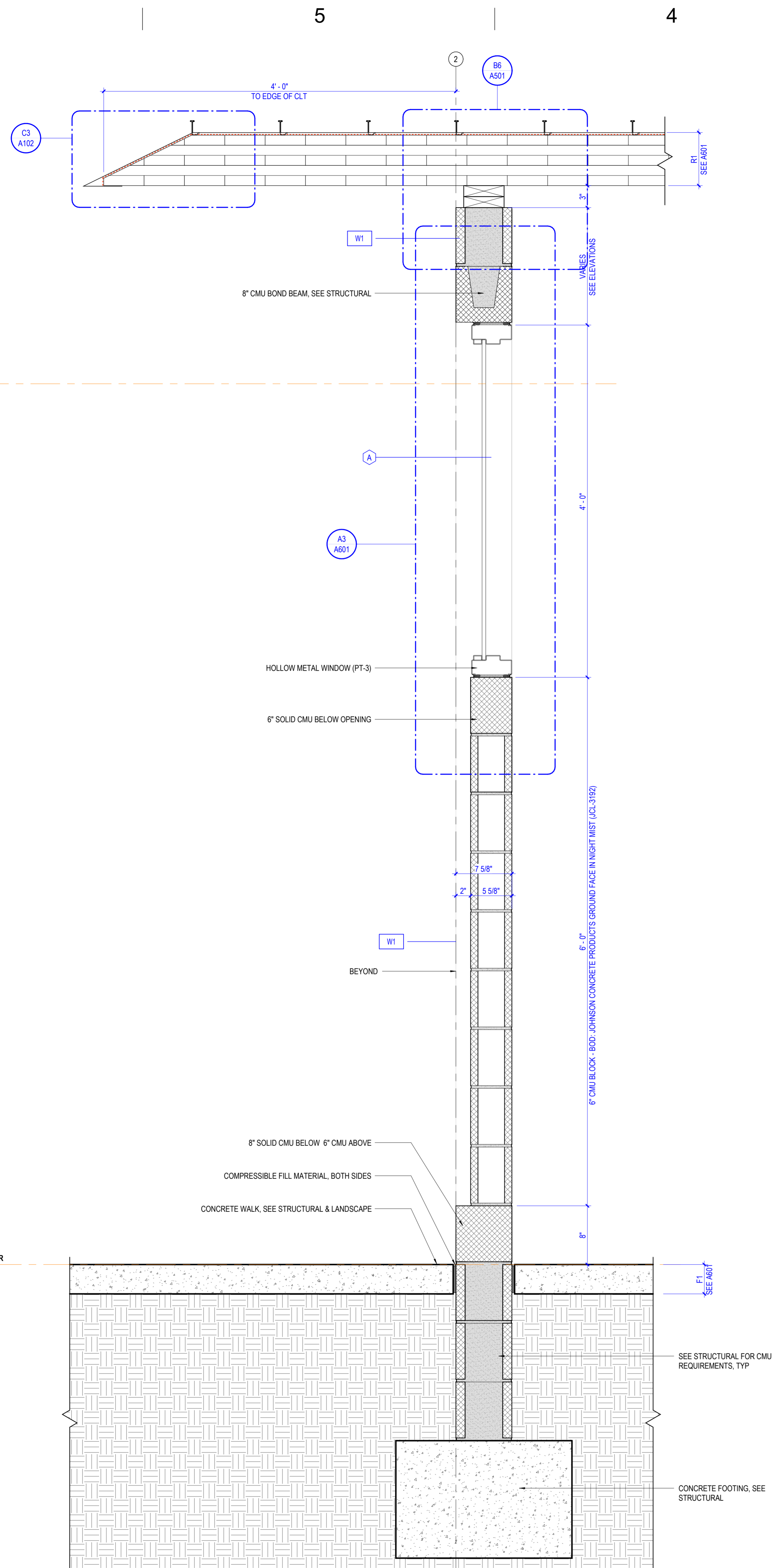
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CLEMSON, SOUTH CAROLINA

Project Number: 21017.01
Status & Date: 2
11/01/2024

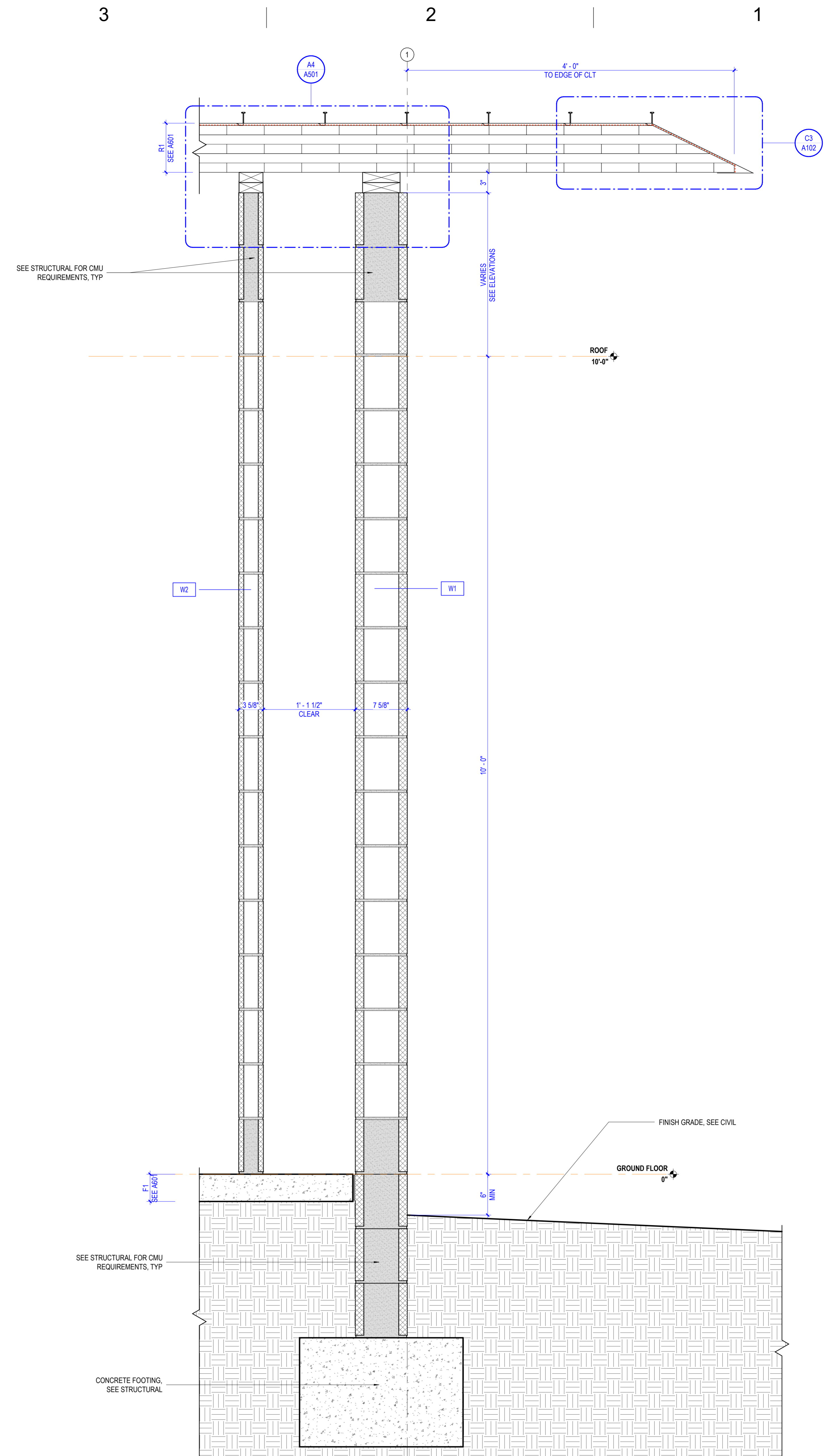
Sheet Title:
A WALL SECTIONS

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Sheet Number:

A310



A6 WALL SECTION @ WINDOW
1/12" = 1'-0" DRAWING REF: C6 / A301



A3 WALL SECTION @ PLUMBING CHASE
1/12" = 1'-0" DRAWING REF: C6 / A301

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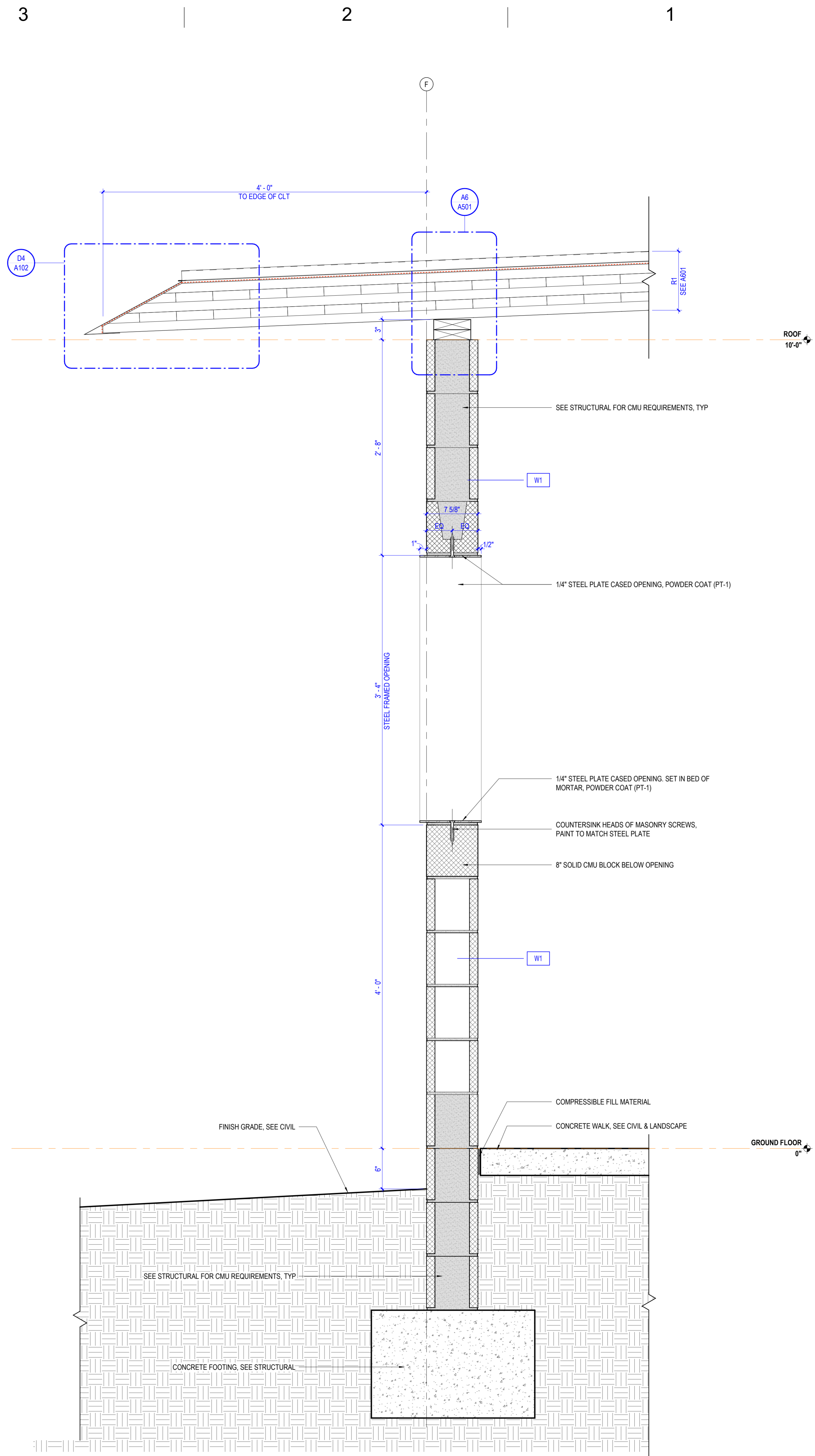
CLEMSON CITY PARK
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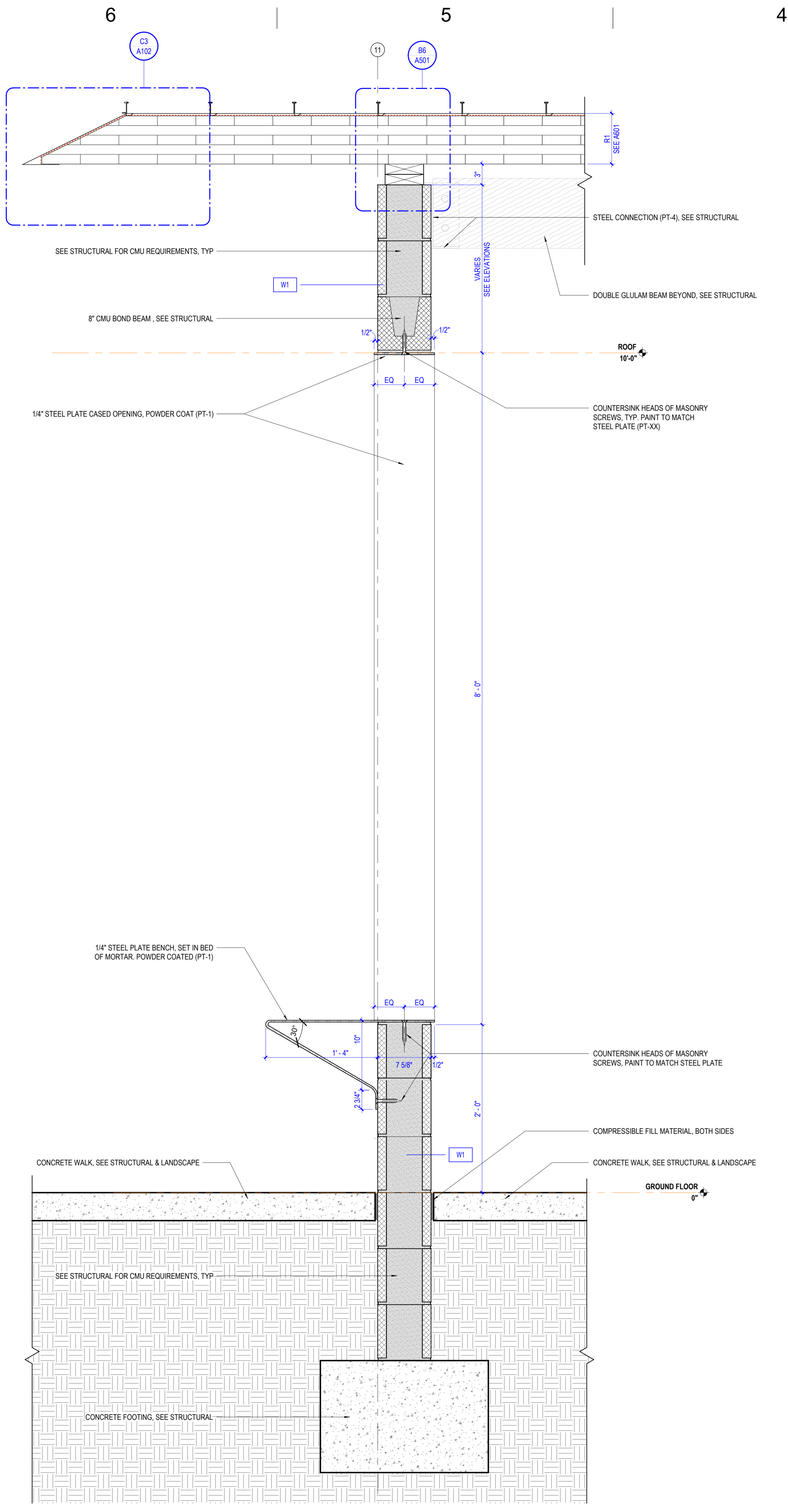
Sheet Title:
A WALL SECTIONS

PRINT IN COLOR
Sheet Number:

A311



A3 WALL SECTION @ FRAMED OPENING
1 1/2" = 1'-0" DRAWING REF: B6 / A301



A6 WALL SECTION @ BENCH AND CASSED OPENING
1 1/2" = 1'-0" DRAWING REF: C6 / A301

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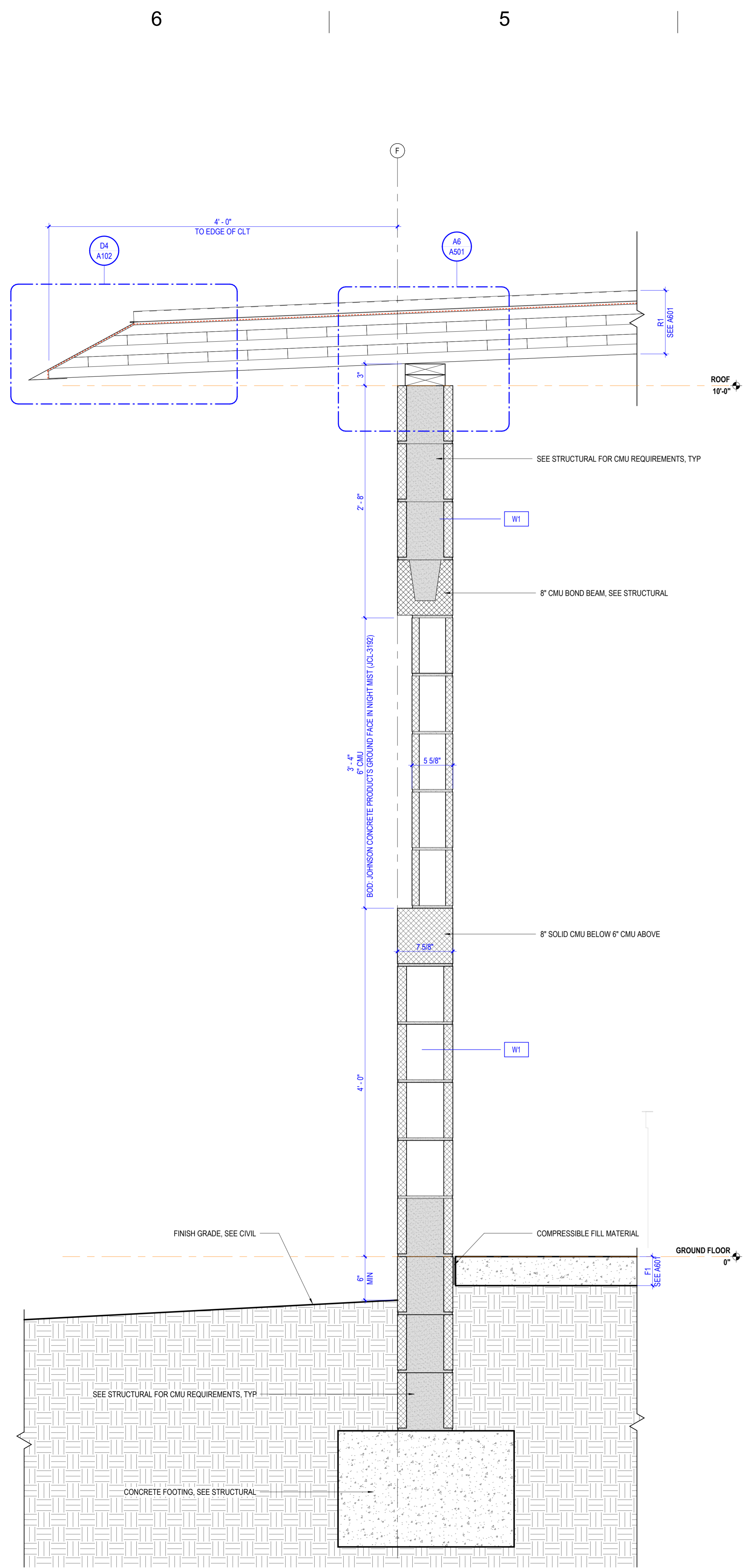
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CLEMSON, SOUTH CAROLINA**

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11/01/2024

Sheet Title:
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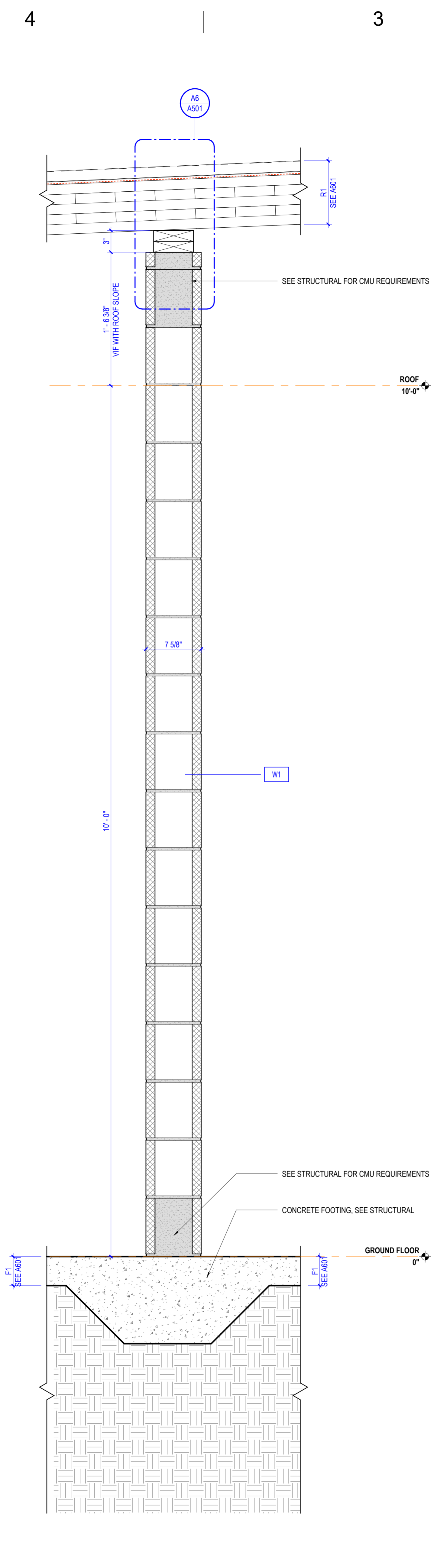
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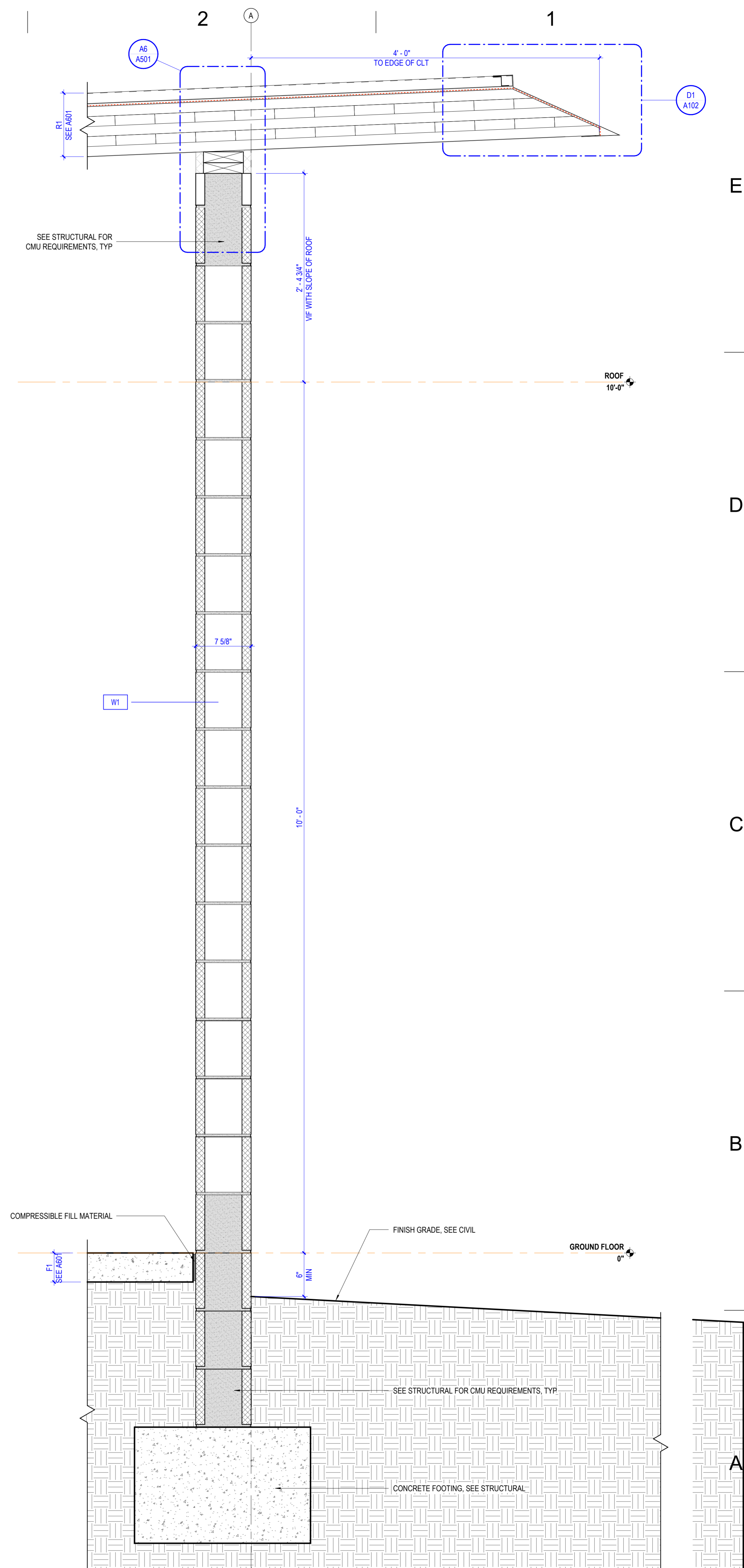
A6 WALL SECTION @ 6" BLOCK RECESS

1 1/2" = 1'-0" DRAWING REF: A6 / A301



A4 WALL SECTION @ INTERIOR BLOCK WALL

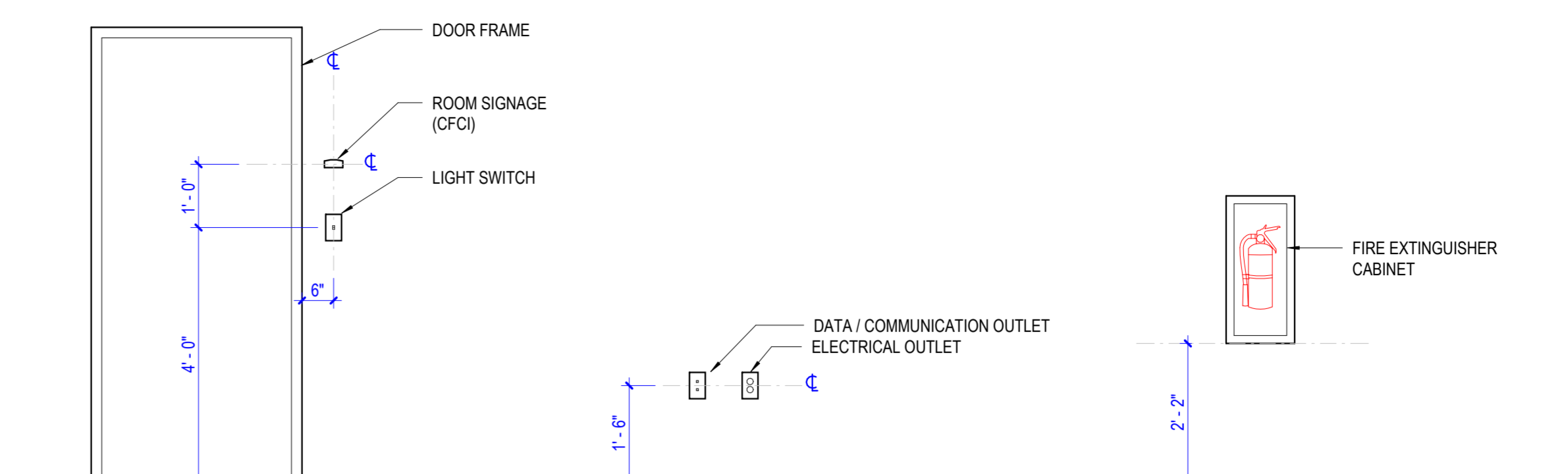
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A2 Detail 9

1 1/2" = 1'-0" DRAWING REF: A6 / A301

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INTERIOR GENERAL MOUNTING HEIGHTS

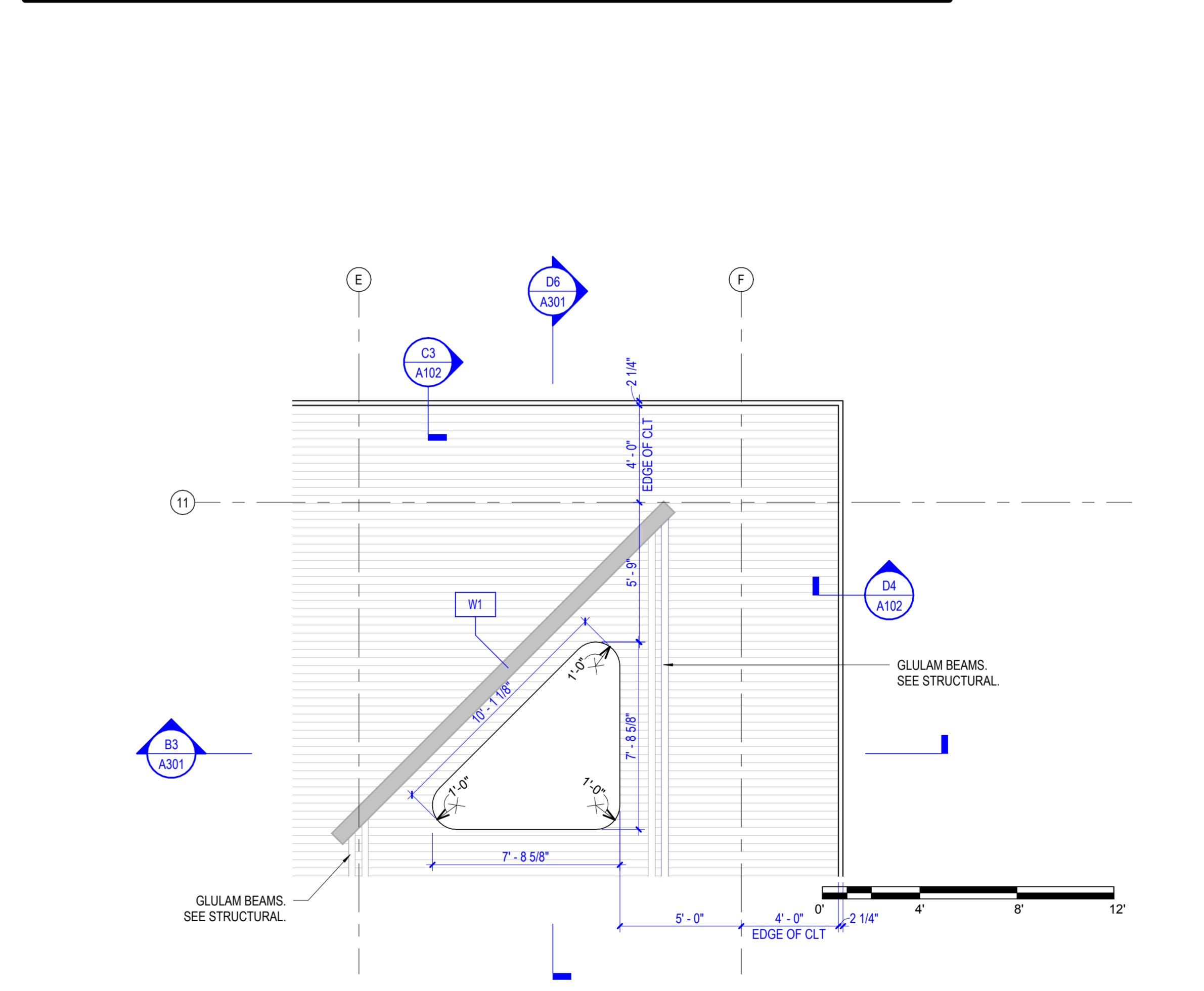
1/2" = 1'-0"

PLUMBING FIXTURE SCHEDULE			
TYPE MARK	DESCRIPTION	MANUFACTURER	MODEL
P1	ELKAY DEPENDABIL STAINLESS STEEL 96" X 28-X 43-3/4" 16 DRAWBOARDS AND STAINLESS STEEL LEGS	ELKAY	14-2C24K24-2-24X
P2	80" ADA FLOATING CONCRETE RAMP SINK CONCRETE COLOR SHADOW FINISH CLASSIC SOAP HOLES NONE FAUCET HOLES 2 SINGLE-HOLE 4" TALL BLACKPLASH NONE PLUMBING SHIELD ADA SHIELD DRAIN FINISH: NICKEL	TRUEFORM CONCRETE	FLO-60V-ADA-PARENT
P3	ELKAY OUTDOOR EZH20 BOTTLE FILLING STATION TRI-LEVEL PEDESTAL NON-FILTERED NON-REFRIGERATED FR	ELKAY.COM	LK4430BF1UFRK
P4	APWALL® MILLENNIUM® 1.0 - 1.6 GPF (3.8-6.0 LPI) WALL-HUNG EVERCLEAN® BOWL LESS SEAT, SELECTRONIC DIAPHRAM FV ULTIMA® SELECTRONIC® EXPOSED TOILET FLUSH VALVE, DIAGRPHAM TYPE, BATTERY, 1.28 GPF/4.8 LPF 6247121.002, COMMERCIAL HEAVY DUTY OPEN FRONT ELONGATED TOILET SEAT	AMERICAN STANDARD	3351101.02
P5	DECORUM 0.125 GPF/0.47 LPF BACK SPUD URINAL WITH EVERCLEAN	AMERICAN STANDARD	6043001EC.020
P6	DESIGNER SERIES AUTOMATIC, BATTERY-POWERED, POLISHED CHROME LAVATORY FAUCET	BROBRIK WASHROOM EQUIPMENT, INC.	B-8878
P7	HEAVY-DUTY ADJUSTABLE FLOOR DRAIN	ZURN INDUSTRIES, LLC	Z1732-6NH

NOTE: ALL PRODUCTS ARE BOD OR APPROVED EQUAL BY ARCHITECT / OWNER

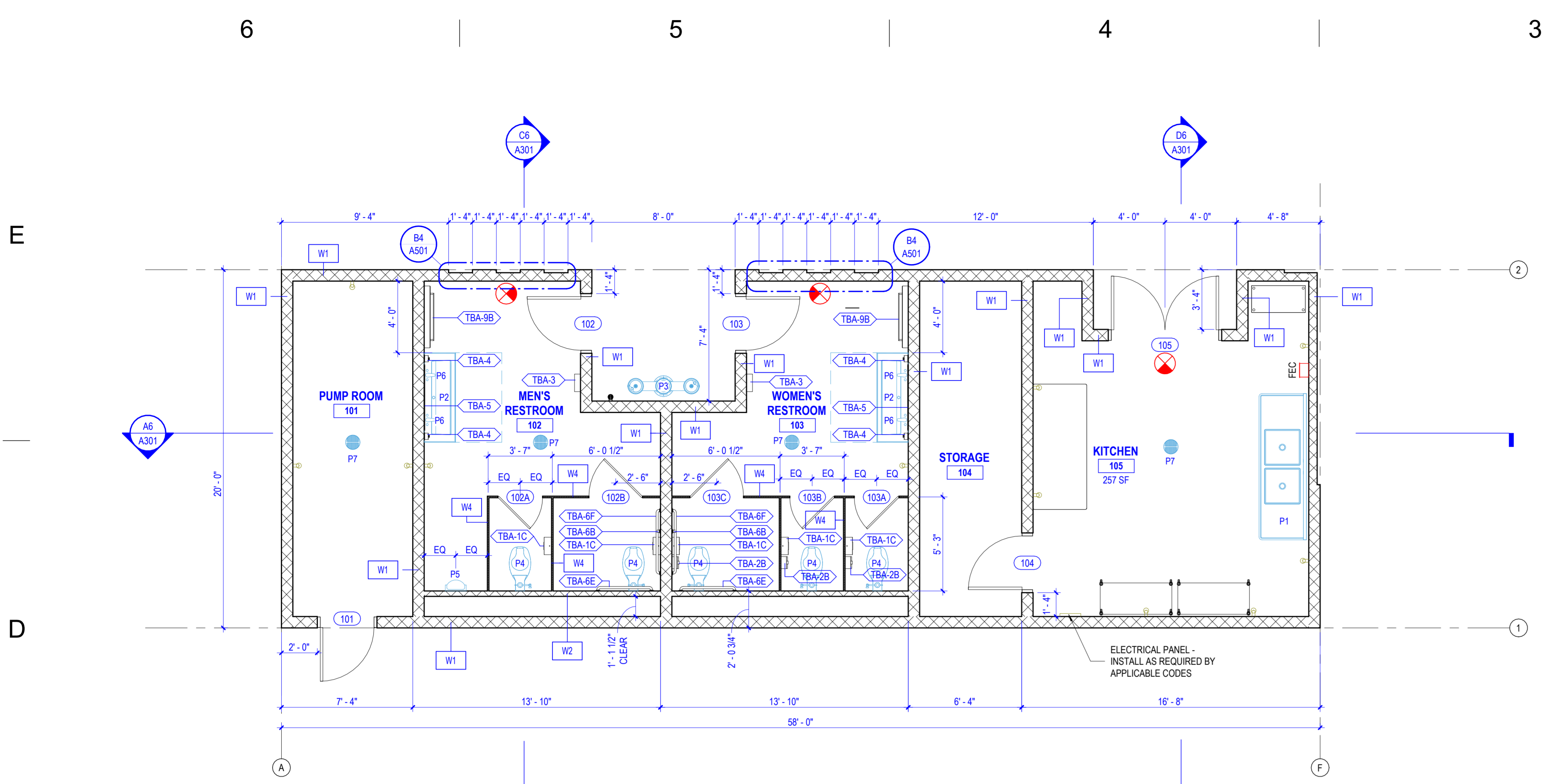
- 1 110V OUTLET RECESSED GFCI PROTECTED WEATHERPROOF HOUSING
- 2 HOSE BIB VANDALL PROOF 3/4" KEY OPERATED
- 3 BOD BEGA 84.061 BOLLARD 120-277V AC INSTALLED PER MANUFACTURER'S RECOMMENDATIONS
- 4 BOD TYP: BEGA 77 019 IN-GRADE LUMINAIRE 24V DC
- 5 BOD BIKE REPAIR KIT 554BR210-10 FIXIT PLUS WITH AN AIR KIT PRIME - SURFACE MOUNT

PLAN LEGEND



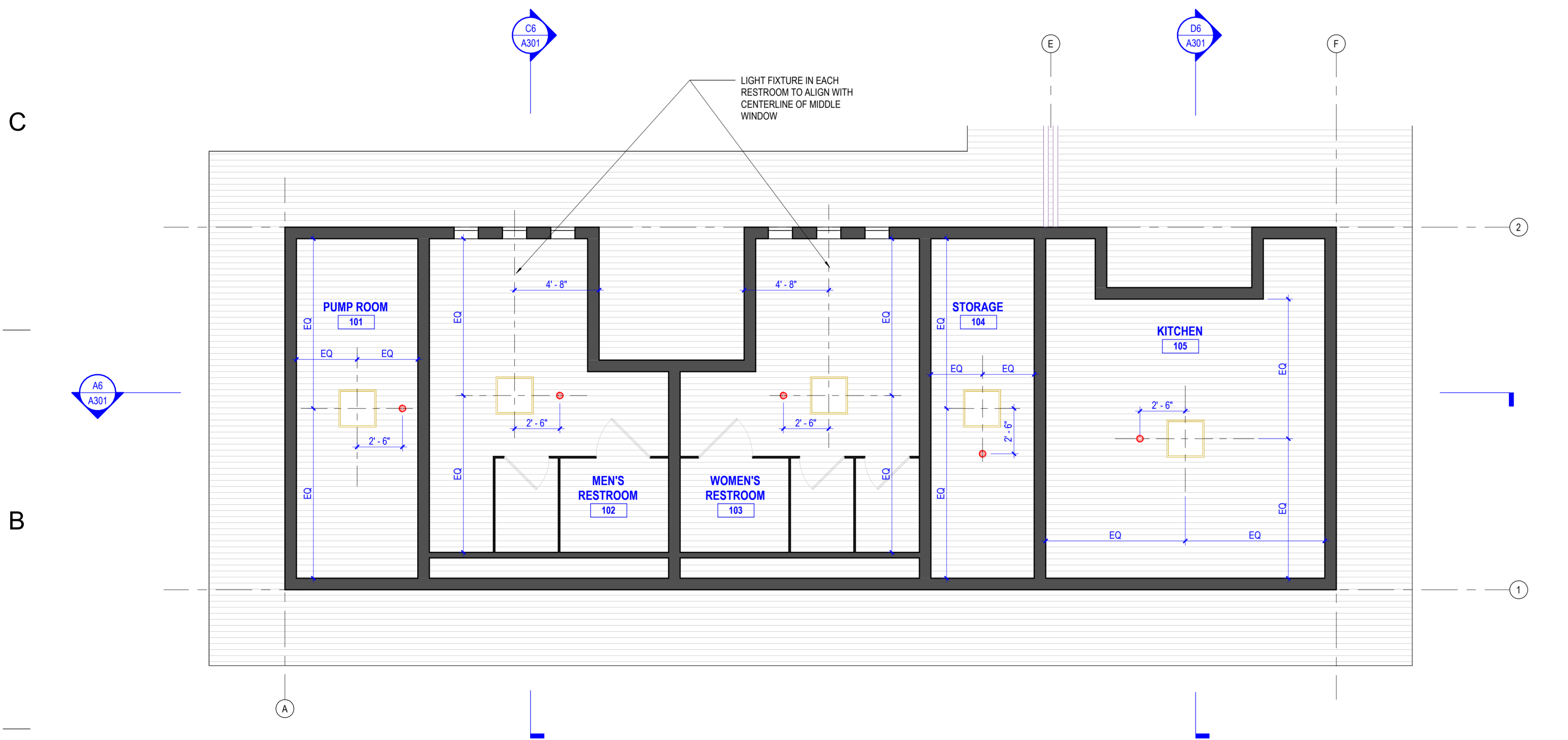
B1 RCP DETAIL - SKYLIGHT AT MAIN STRUCTURE

1/4" = 1'-0" DRAWING REF: B3 / A101



D6 ENLARGED FLOOR PLAN OF SUPPORT SPACES

1/4" = 1'-0" DRAWING REF: B6 / A101



A6 ENLARGED RCP AT SUPPORT SPACES

1/4" = 1'-0" DRAWING REF: B3 / A101

RCP LEGEND

- BOD: BEGA LARGE-AREA CEILING AND WALL LUMINAIRE, 33 311 72.0W S210 LM 24 1/2 X 24 1/2 X 3 1/4
- ⊙ EXIT SIGNAGE
- ⊙ SMOKE DETECTOR

GENERAL RCP NOTES

- ELECTRICAL WORK IS NOT COVERED UNDER ARCHITECTURAL SCOPE. GENERAL CONTRACTOR TO COORDINATE WITH OWNER ON ALL ELECTRICAL ITEMS AND ENSURE THAT ALL APPLICABLE ELECTRICAL CODES ARE MET.
- CENTER CEILING FIXTURES IN ROOM OR SPACE IF NOT OTHERWISE LOCATED BY DIMENSIONS OR GRAPHIC REPRESENTATION.
- REFER TO INTERIOR ELEVATIONS AND BUILDING ELEVATIONS FOR MOUNTING HEIGHT OF WALL MOUNTED LIGHTS.

SHADE STRUCTURE PLAN LEGEND

- 1 110V OUTLET RECESSED
GFCI PROTECTED
WEATHERPROOF HOUSING
- 2 HOSE BIB
VANDALL PROOF
3/4" KEY OPERATED

MATERIAL INDICATIONS

	6" CMU BLOCK 800 JOHNSON - NIGHT MIST JCL-319.
	6" CMU BLOCK 800 JOHNSON - NIGHT MIST JCL-319.
	5 PLY - CLT

EXTERIOR MATERIAL LIST

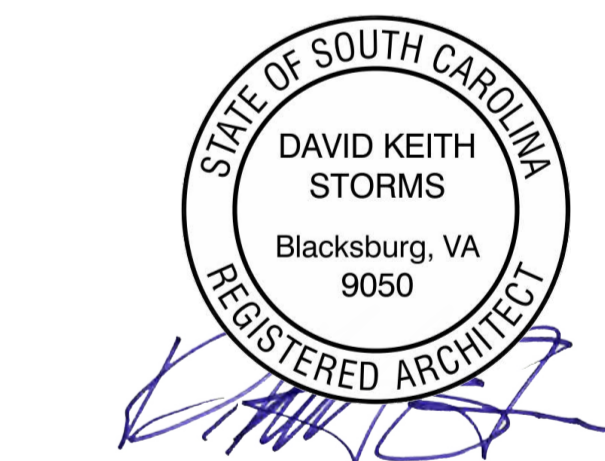
Client
City of Clemson
1290 Tiger Blvd
CLEMSON, SC 29631

Consultants
Britt Peters & Associates, Inc.
101 Falls Park Dr #601
Greenville, SC 29601
864.271.8869
www.website.com

Keyplan



2	11/1/2024	100% CONSTRUCTION DOCUMENTS
1	10/1/2024	90% CONSTRUCTION DOCUMENTS

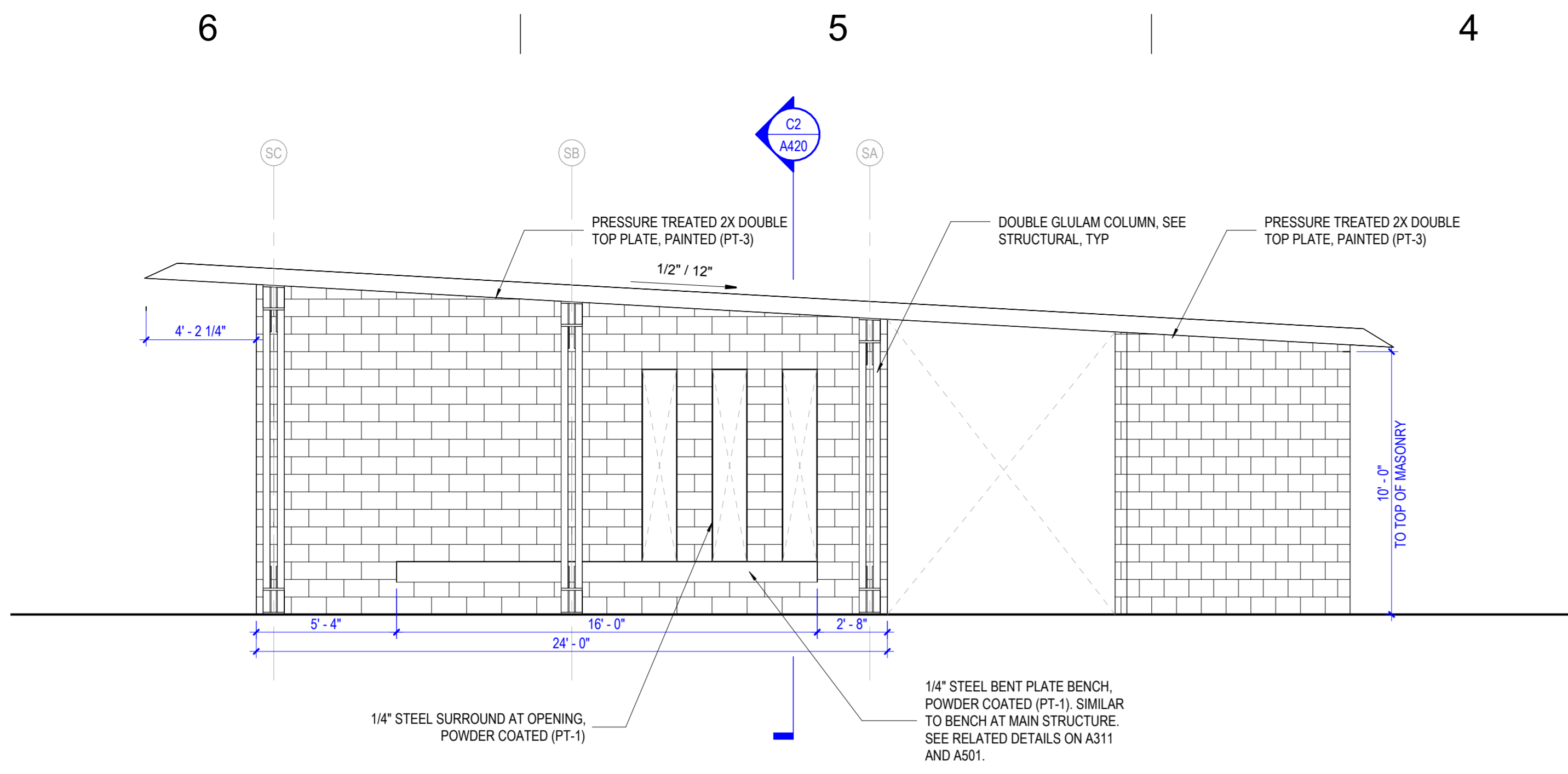


CLEMSON CITY
PARK
CLEMSON, SOUTH
CAROLINA

Project Number: 21017.01
Status & Date: 2
11/01/2024

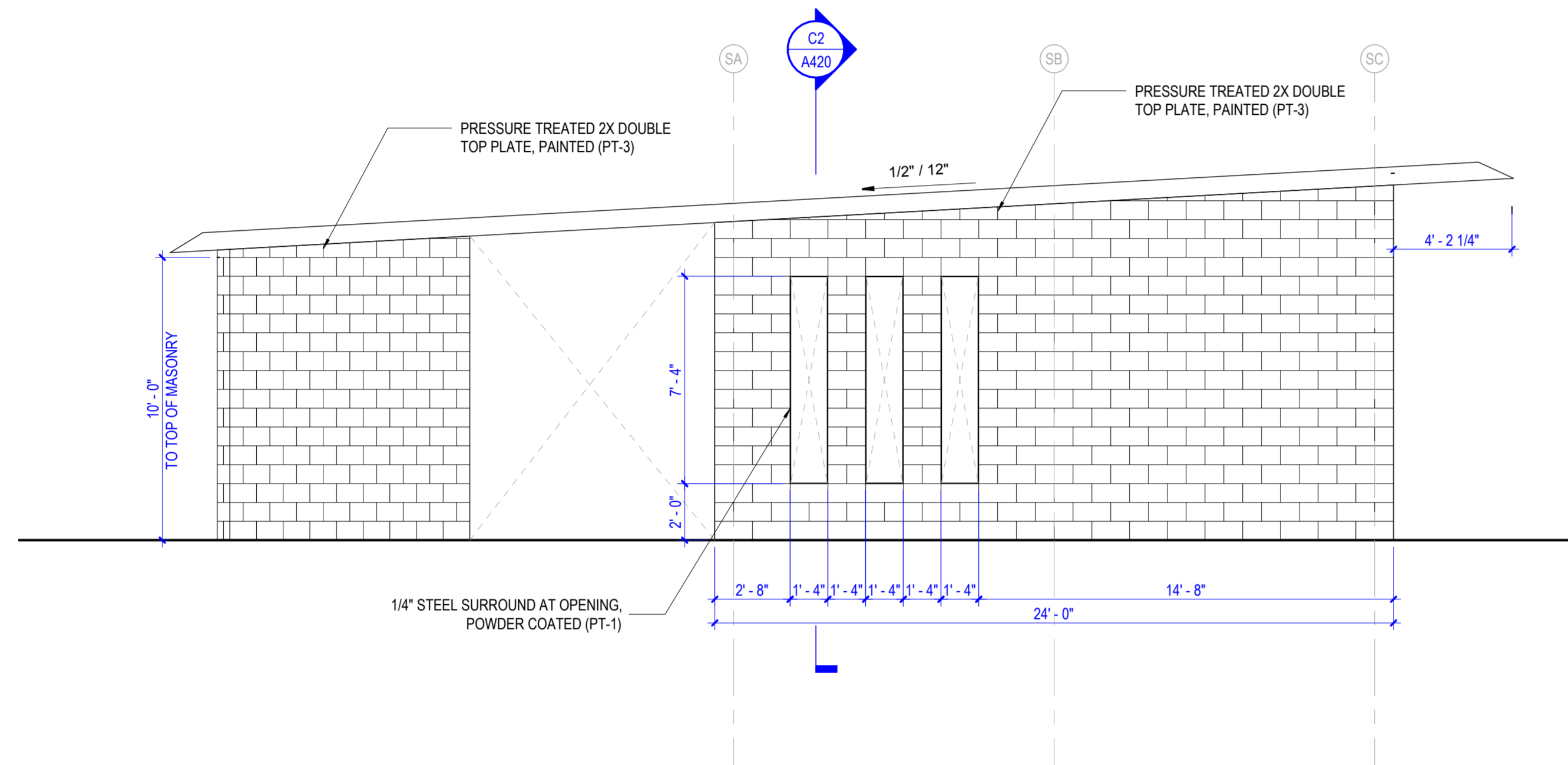
Sheet Title:
A SHADE STRUCTURE

PRINT IN COLOR
Sheet Number:
A420



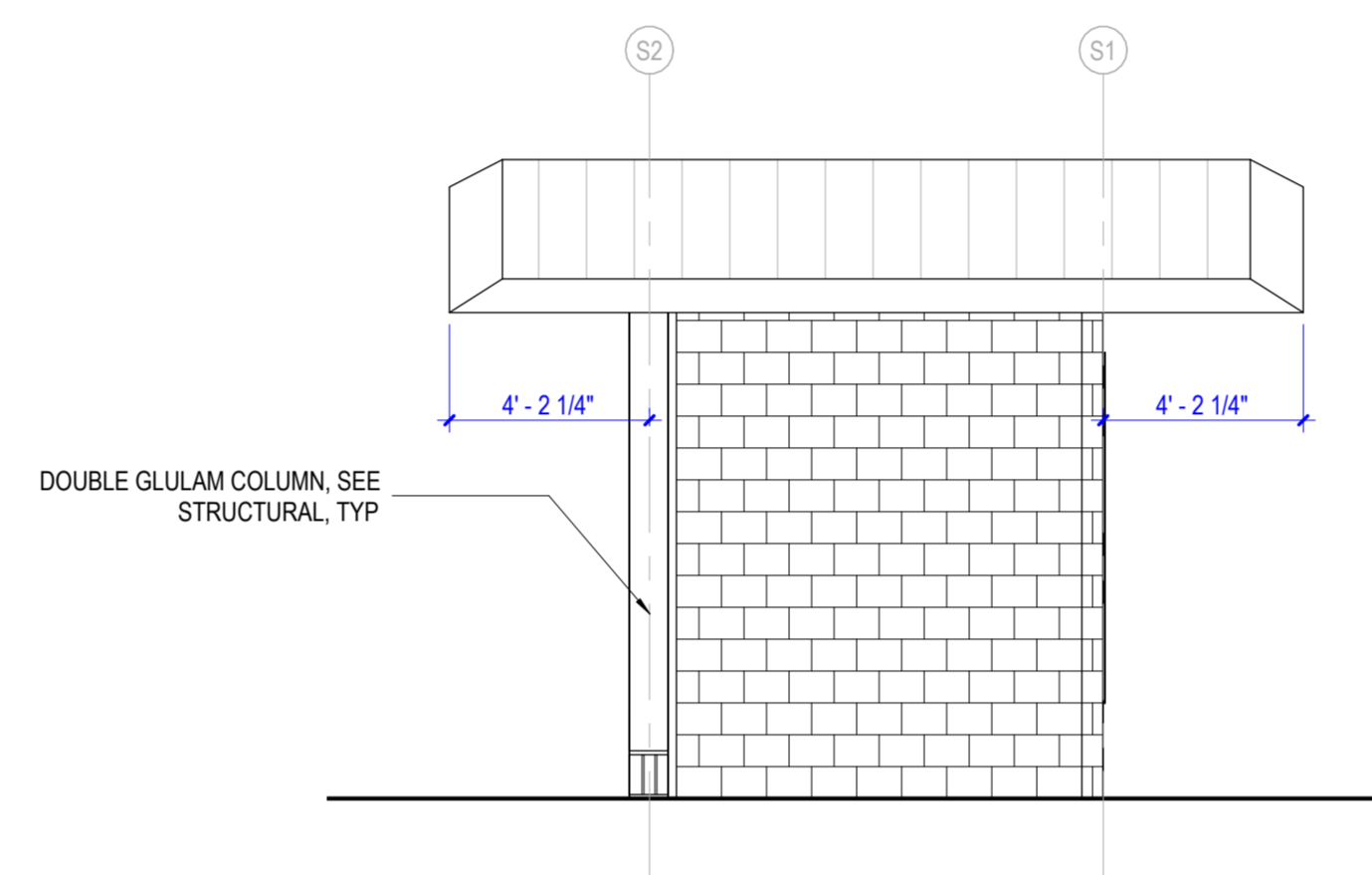
D6 SHADE STRUCTURE NORTH ELEVATION

1/4" = 1'-0" DRAWING REF: A6 / A420



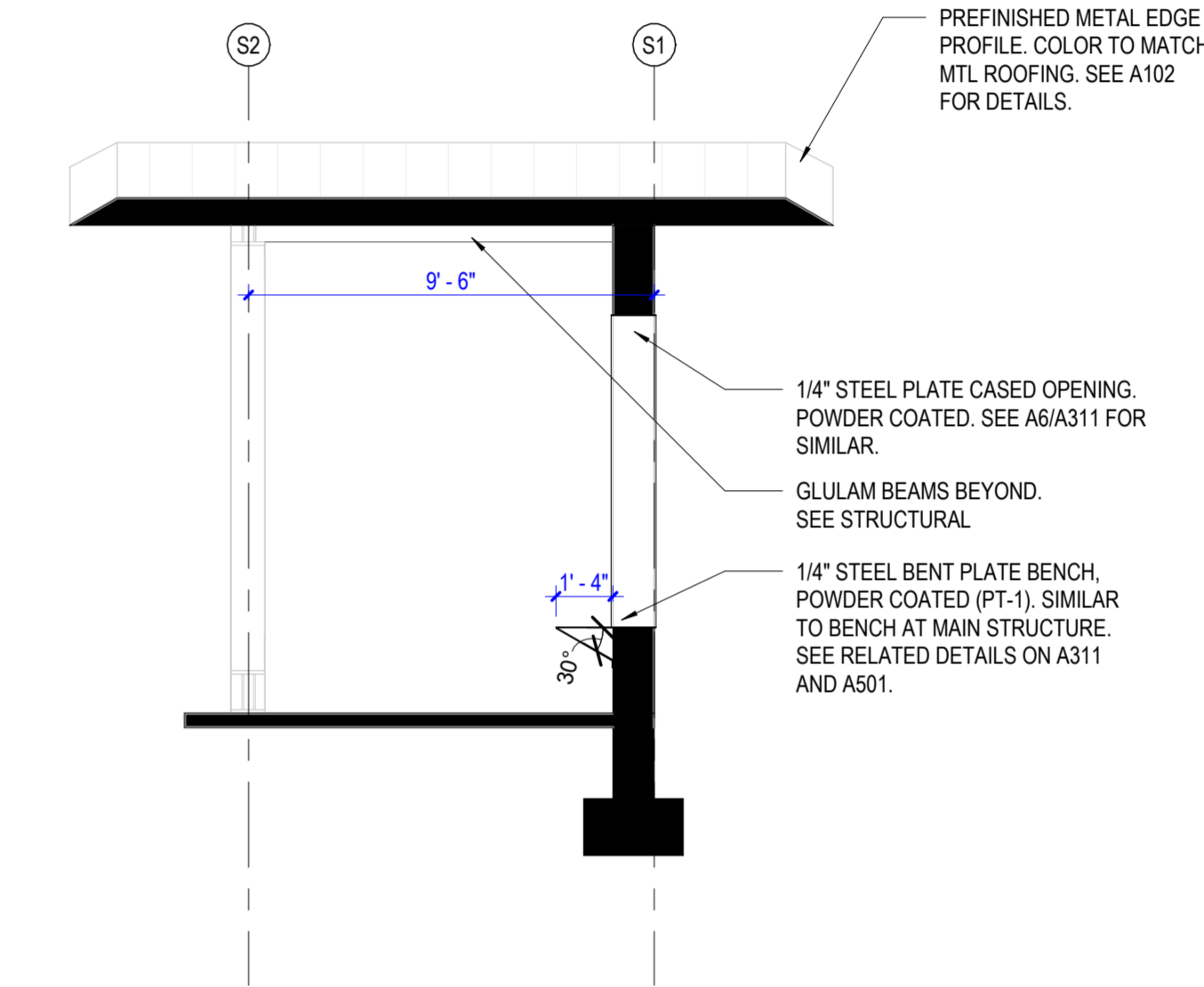
C6 SHADE STRUCTURE SOUTH ELEVATION

1/4" = 1'-0" DRAWING REF: A6 / A420



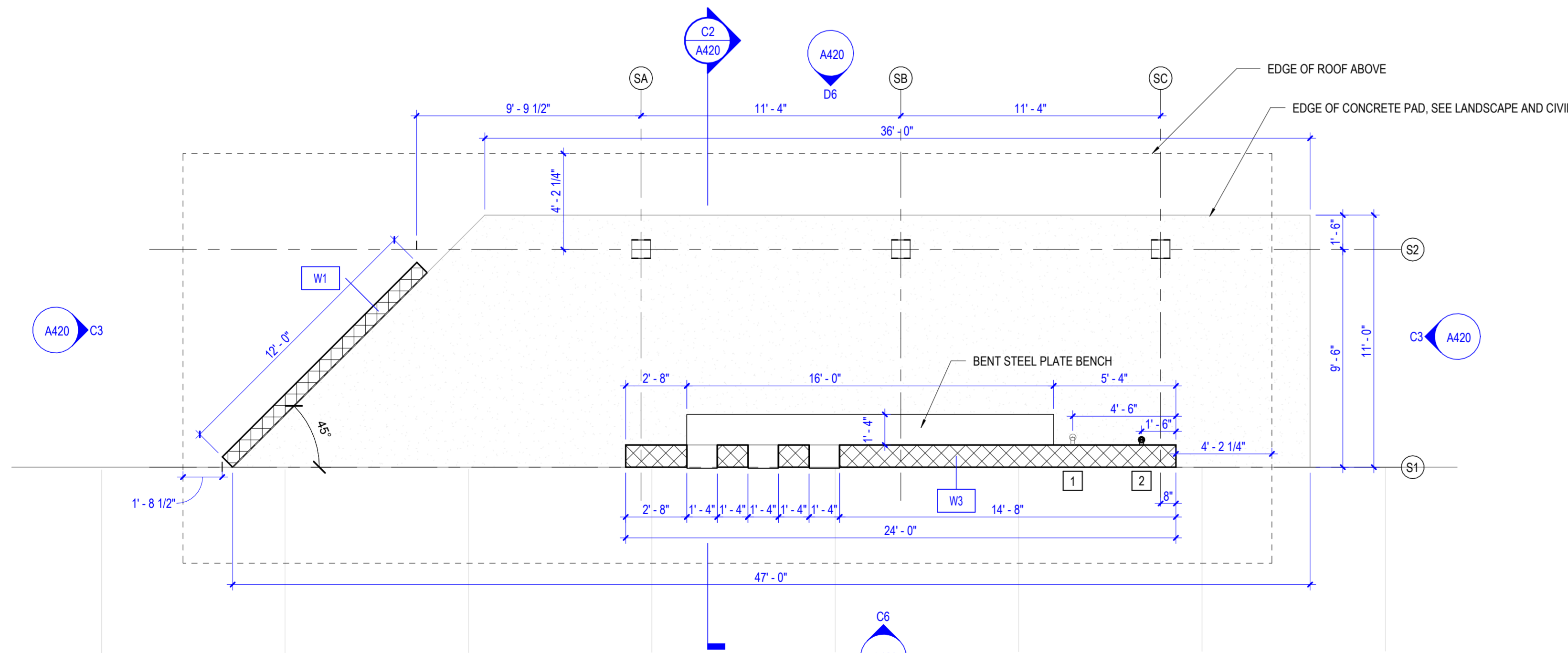
C3 SHADE STRUCTURE WEST ELEVATION

1/4" = 1'-0" DRAWING REF: A6 / A420



C2 SHADE STRUCTURE TRANSVERSE SECTION

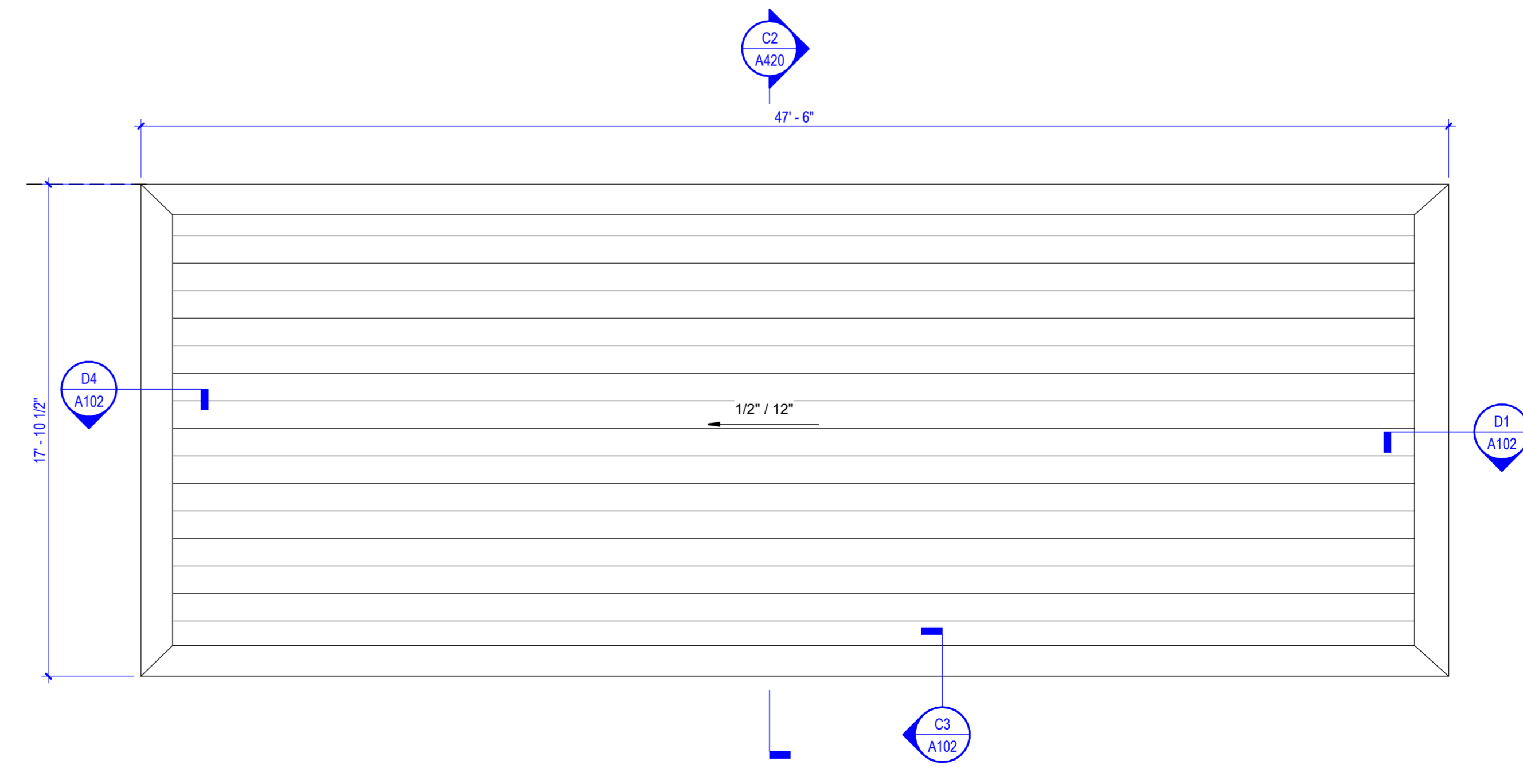
1/4" = 1'-0" DRAWING REF: A3 / A420



A6 SHADE STRUCTURE FLOOR PLAN

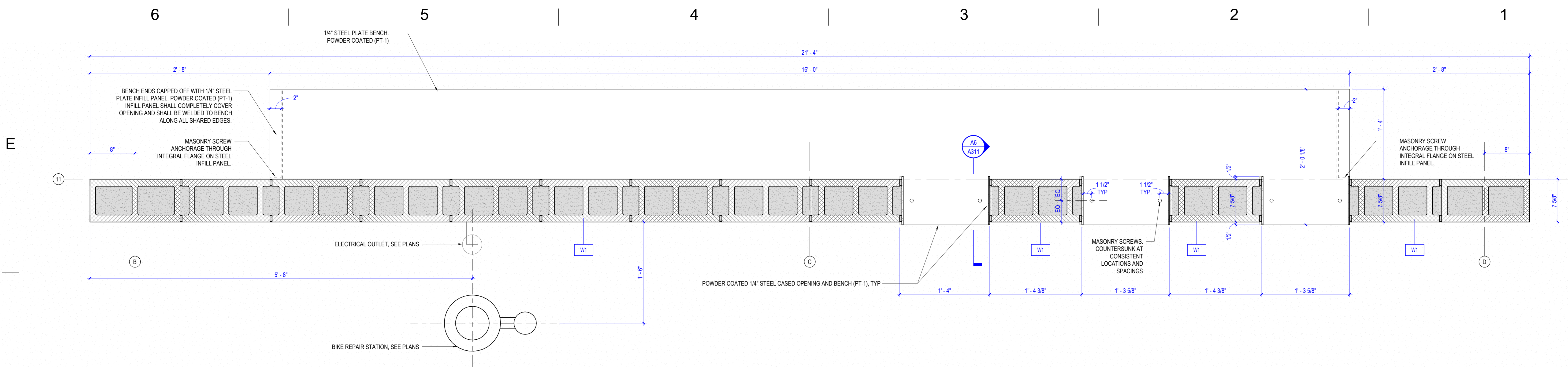
1/4" = 1'-0" DRAWING REF: A6 / A420

GENERAL NOTE: SHADE STRUCTURE DETAILS ARE TYPICAL TO PAVILION (MAIN PARK STRUCTURE).

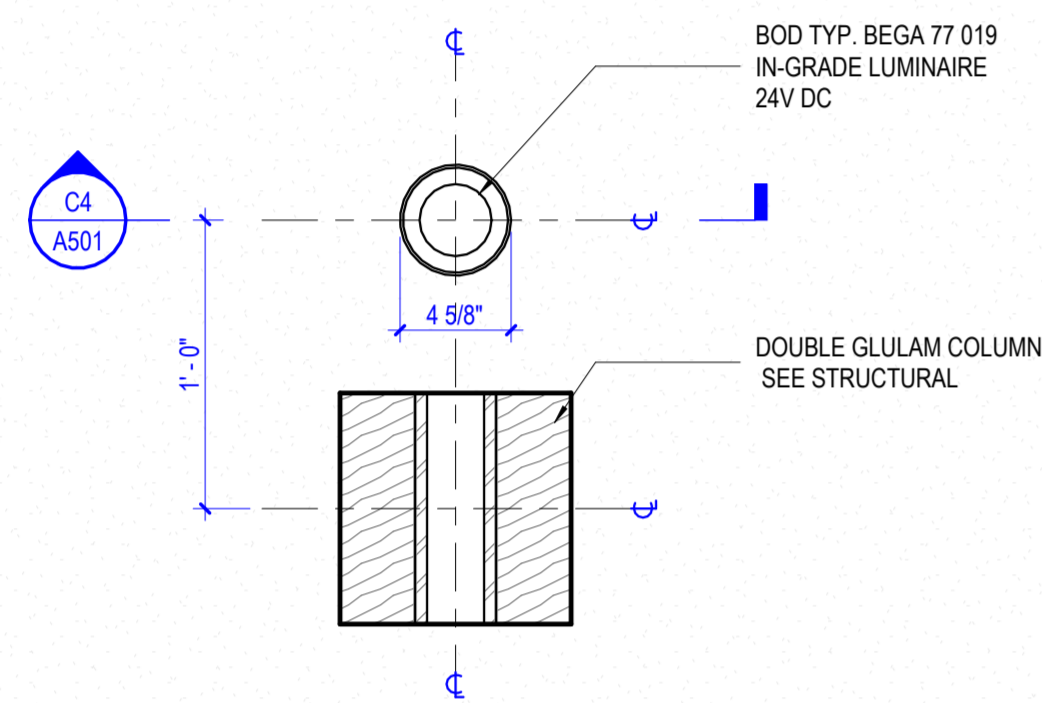


A3 SHADE STRUCTURE ROOF PLAN

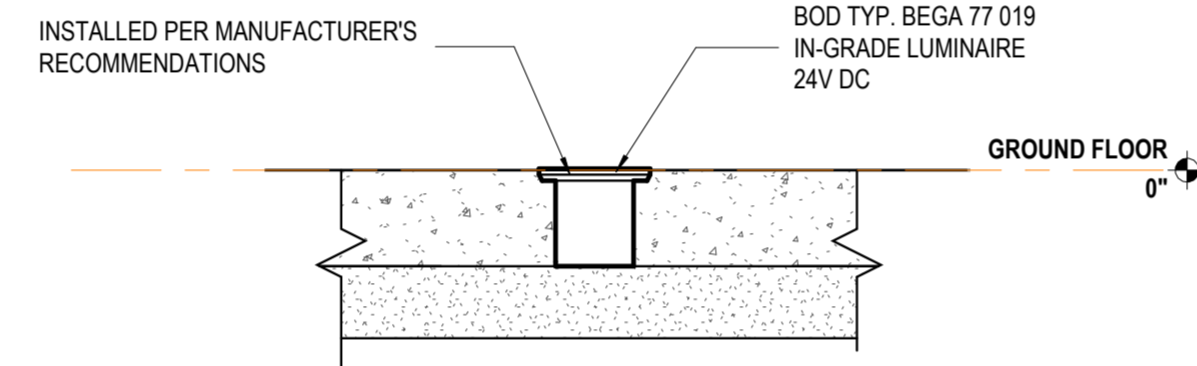
1/4" = 1'-0" DRAWING REF: A3 / A201



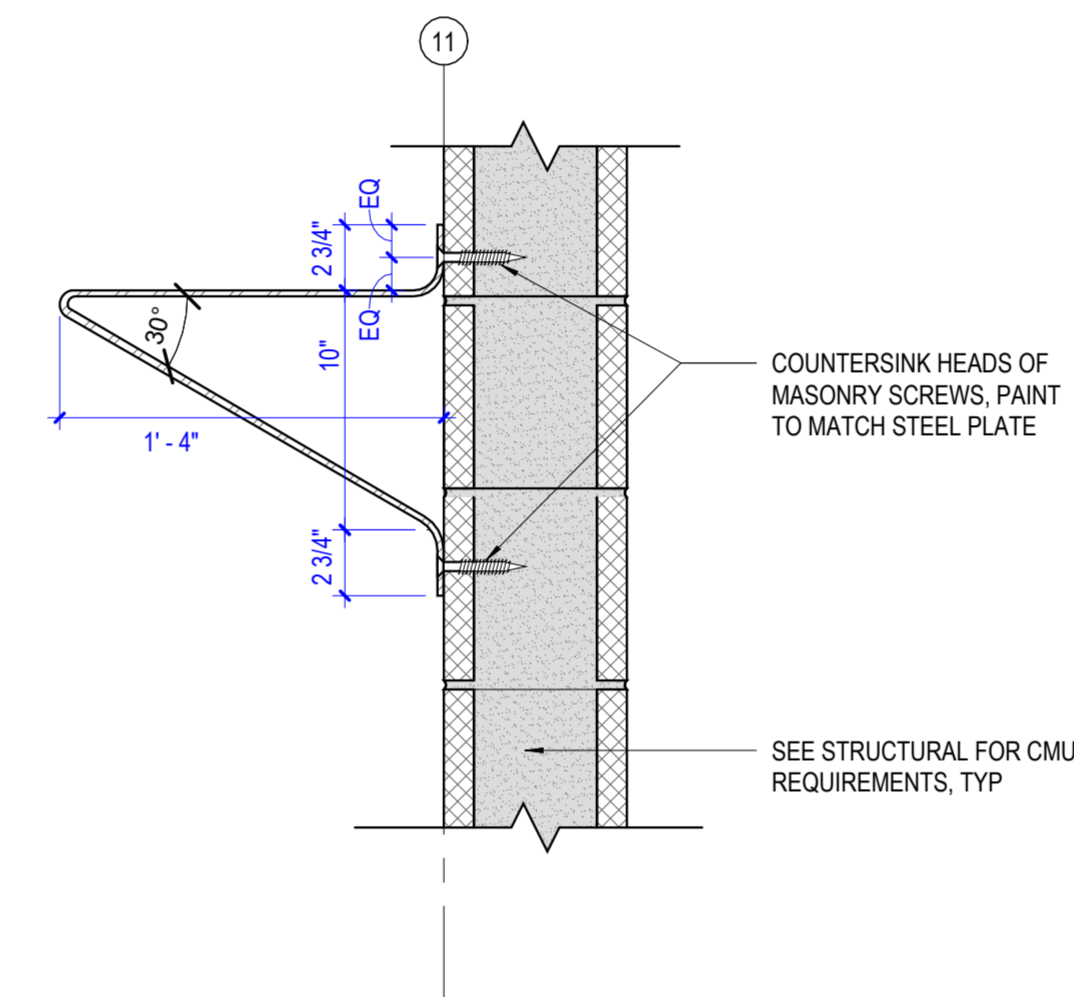
D6 PLAN DETAIL - SEATING WALL
1 1/2" = 1'-0" DRAWING REF: B6 / A101



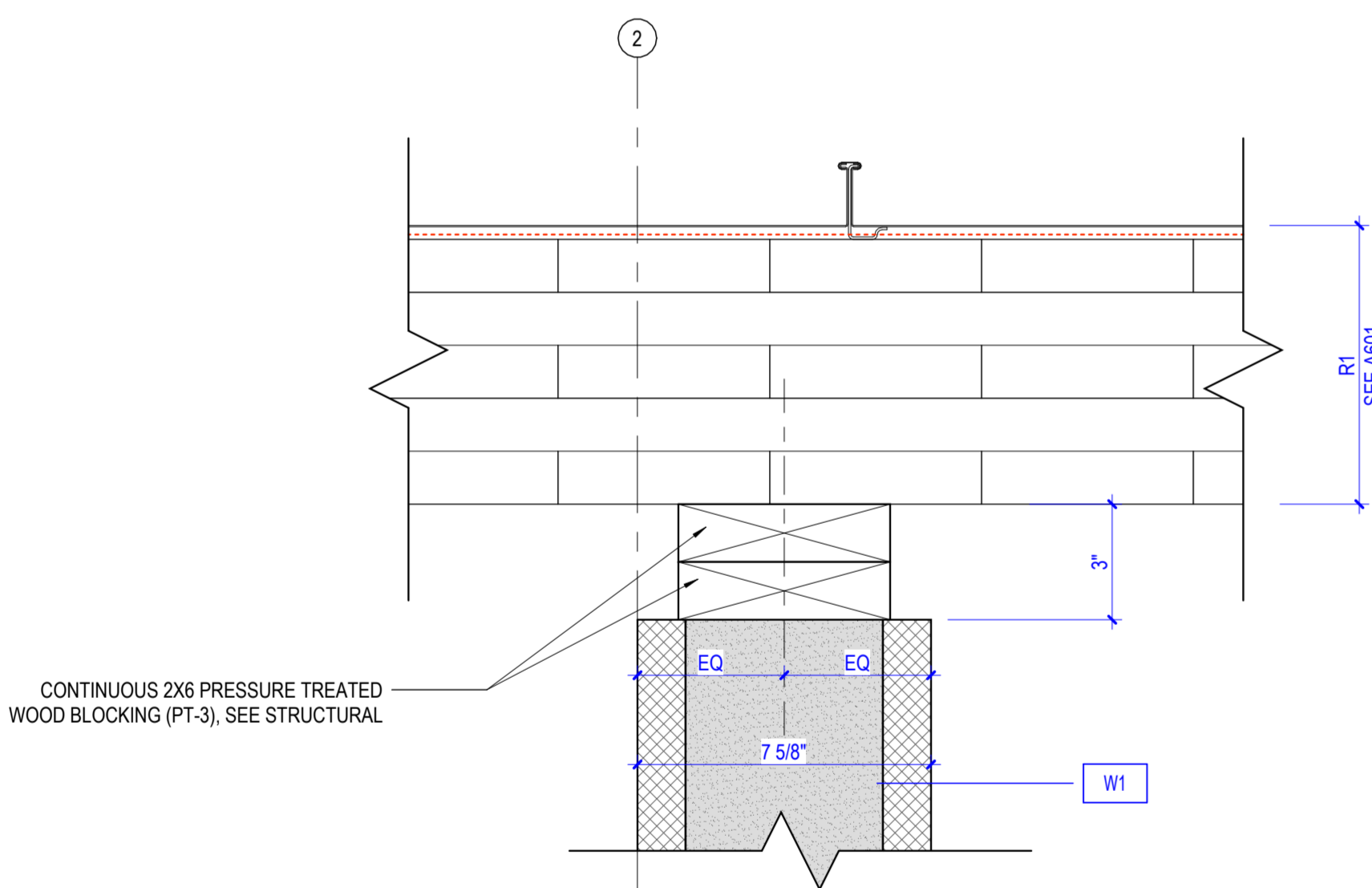
C6 PLAN DETAIL - IN GROUND LIGHTING
1 1/2" = 1'-0" DRAWING REF: B6 / A101



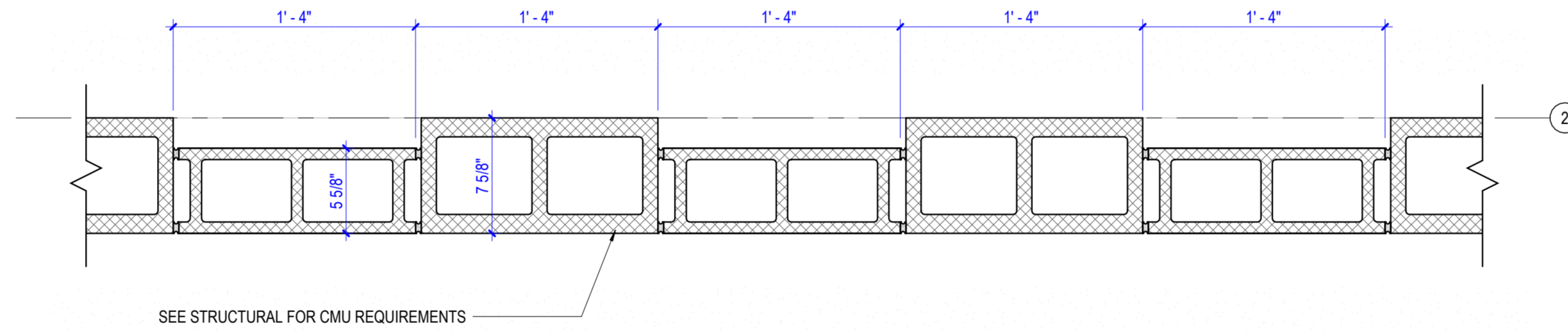
C4 SECTION DETAIL - IN GROUND LIGHTING
1 1/2" = 1'-0" DRAWING REF: C6 / A501



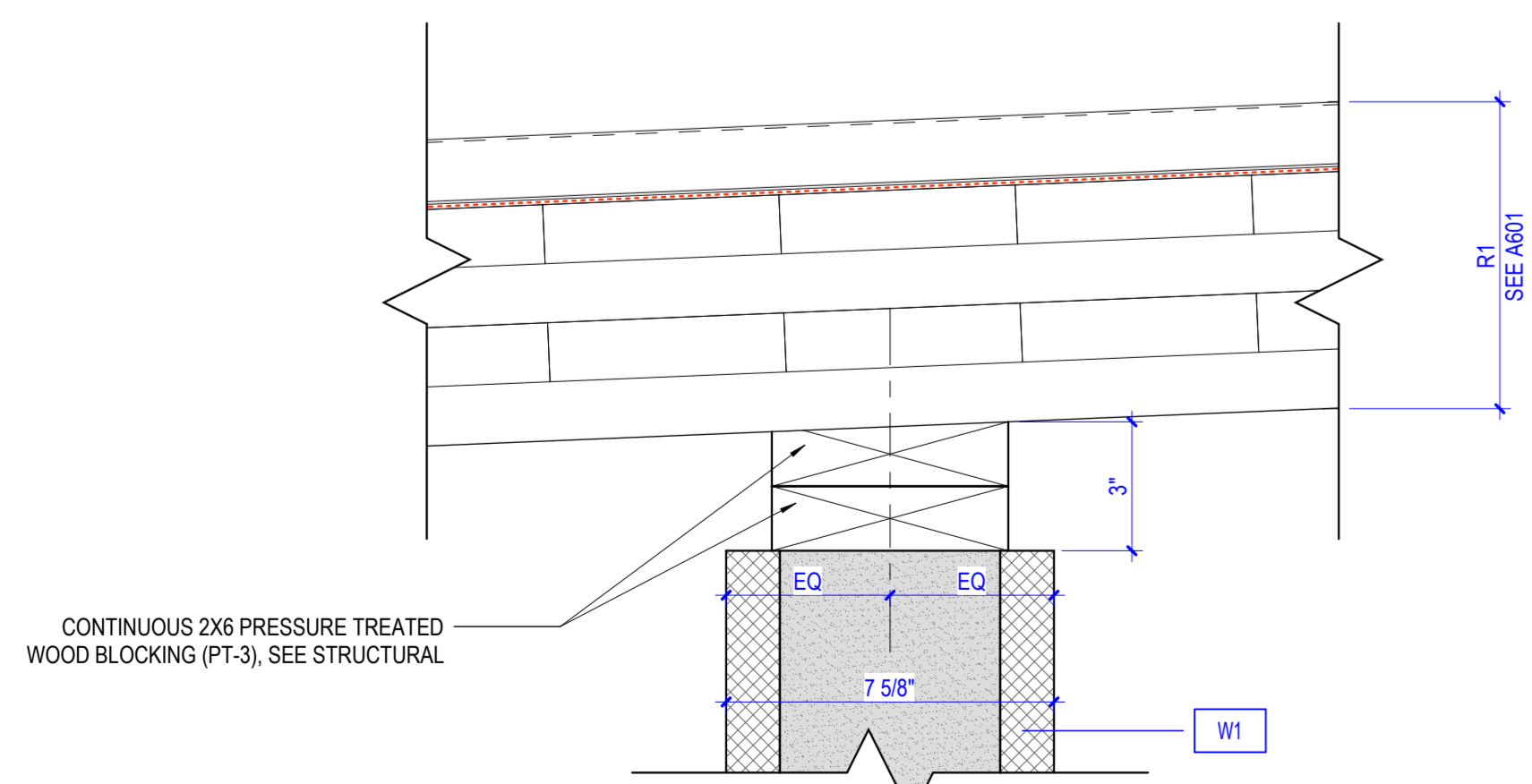
C3 TYPICAL SECTION DETAIL @ BENCH
1 1/2" = 1'-0"



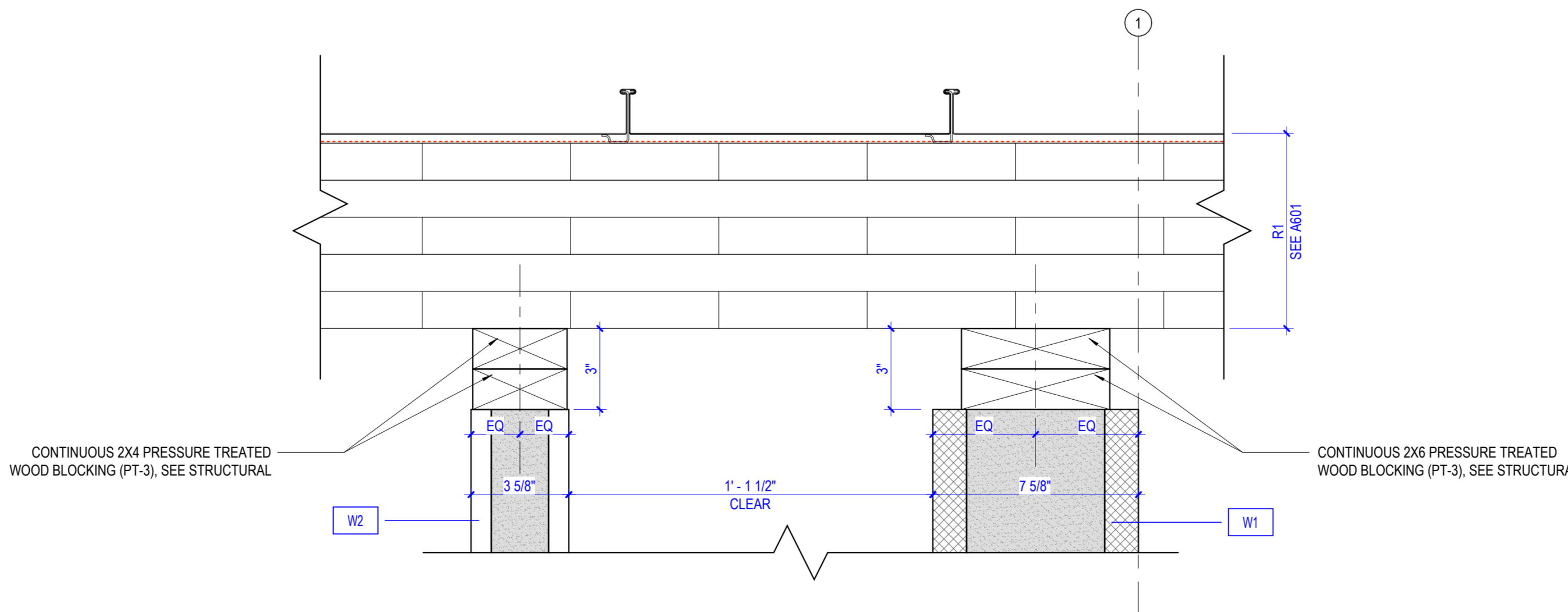
B6 SECTION DETAIL - CMU TO CLT
3" = 1'-0" DRAWING REF: A6 / A310



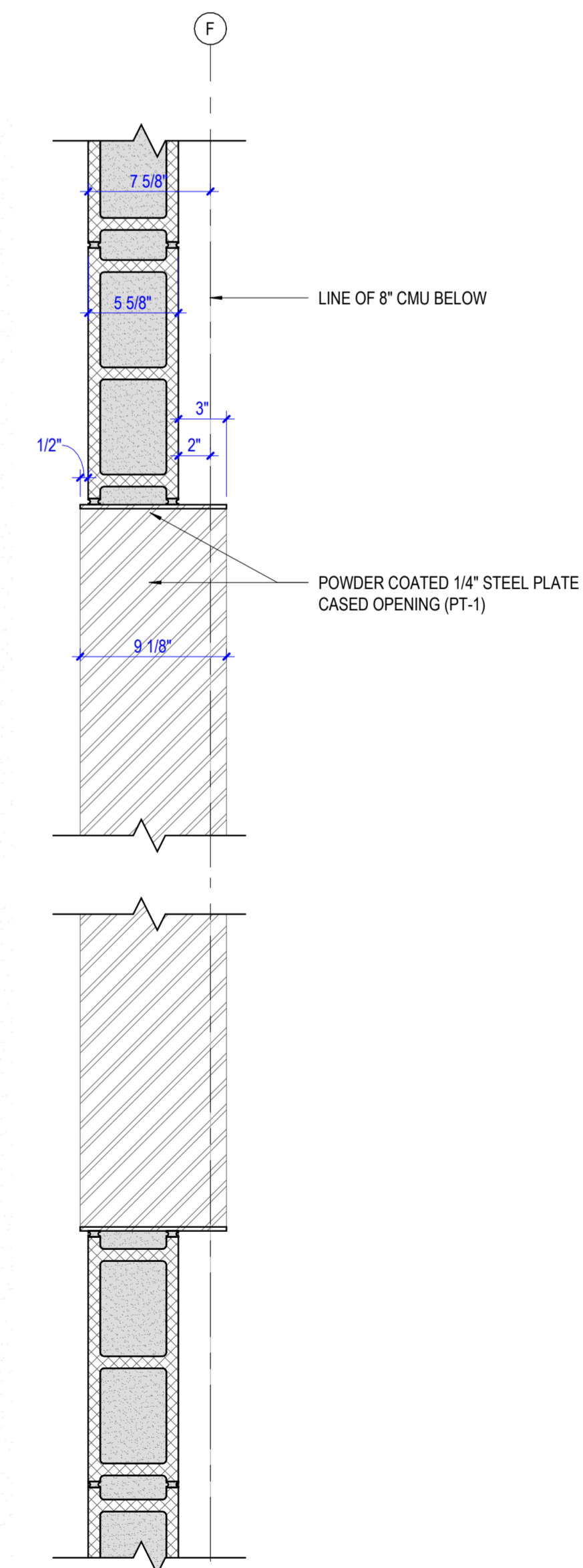
B4 PLAN DETAIL - CMU RELIEF AT WINDOWS
1 1/2" = 1'-0" DRAWING REF: D6 / A410



A6 SECTION DETAIL - CMU TO ROOF
3" = 1'-0" DRAWING REF: A3 / A311



A4 SECTION DETAIL - CMU FURRING WALL
3" = 1'-0" DRAWING REF: A3 / A310



A1 PLAN DETAIL - CMU OPENING
1 1/2" = 1'-0" DRAWING REF: B6 / A101

Keyplan

Table with 3 columns: Revision Number, Date, and Description. Includes revisions for construction documents.



CLEMSON CITY PARK
CLEMSON, SOUTH CAROLINA

Project Number: 21017.01
Status & Date: 2
11/01/2024

Sheet Title:
DETAILS

PRINT IN COLOR
Sheet Number:
A501

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DOOR TYPE NOTES

- VERIFY EXISTING PARTITION THICKNESS PRIOR TO FABRICATING DOOR FRAME. PROVIDE EITHER WALL STOPS OR TRACK TYPE OVERHEAD STOPS AS REQUIRED. FLOOR STOPS ARE NOT ACCEPTABLE.
- DOOR OPENINGS IN FRAME CONSTRUCTION THAT ARE NOT DIMENSIONED ARE EITHER CENTERED IN THE WALL OR LOCATED 6" FROM THE FACE OF THE STUD TO THE FINISHED JAMB. REFER TO ACCESSIBILITY DIAGRAMS FOR CODE-REQUIRED CLEARANCES AT OPENINGS.
- DOORS SHOULD NOT BE UNDERCUT MORE THAN 3/4" ABOVE NEW FINISHED SURFACES.
- DOOR FRAMES AT INSULATED PARTITIONS SHALL RECEIVE INSULATION IN JAMB & HEAD CAVITY.
- ALL FRAMES & ANCHORS TO BE INSTALLED ACCORDING TO FRAME MANUFACTURERS' INSTRUCTIONS.
- ALL HM FRAMES TO BE FULLY WELDED, UNO.

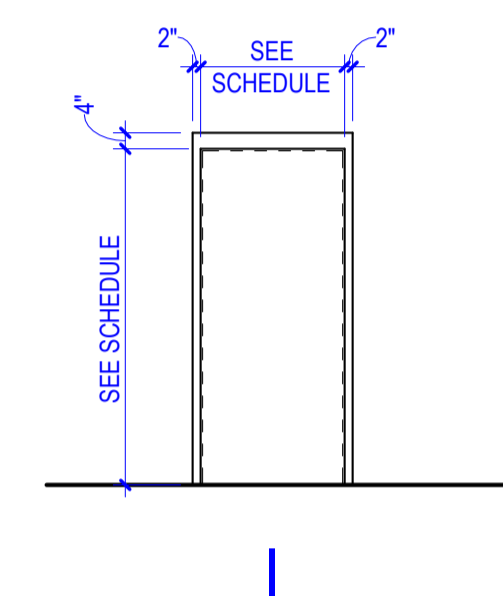
DOOR HARDWARE NOTES

- UNLESS OTHERWISE INDICATED PROVIDE THE FOLLOWING HARDWARE FINISHES AS APPROPRIATE FOR EACH HARDWARE ITEM THROUGHOUT THE PROJECT.
 - BHMA 626/652 SATIN CHROME, BHMA 630 SATIN STAINLESS STEEL, BHMA 689 ALUMINUM PAINTED
 - BHMA 612/639 SATIN BRONZE, CLEAR COATED, BHMA 691 LIGHT BRONZE PAINTED
 - BHMA 613/640 DARK OXIDIZED SATIN BRONZE, OIL RUBBED, 609 DARK BRONZE PAINTED
- COMPLY WITH CURRENT REQUIREMENTS OF ADA AND ICC/ANSI A117.1.
- UNLESS OTHERWISE INDICATED ALL LOCKING AND LATCHING HARDWARE SHALL BE GRADE 1.
- NEW AND EXISTING HARDWARE SETS AND DOORS SHALL BE IN ACCORDANCE WITH NFPA 101, SECTION 7.2 (2021 EDITION).
- SEVENTH EDITION FBG 101.9.1.9 MAG LOCKS WILL MEET THIS CODE AND UL294

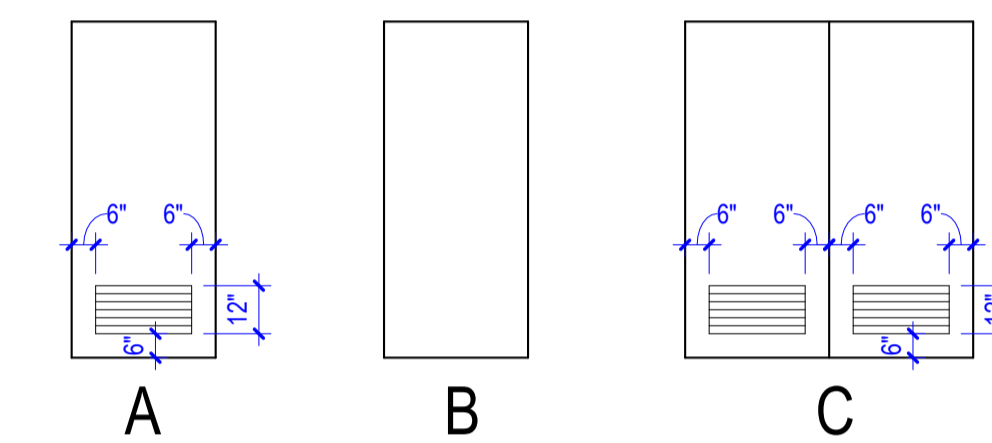
DOOR SCHEDULE

MARK	FRAME				DOOR				HARDWARE	Comments
	TYPE	MATERIAL	FINISH	TYPE	WIDTH	HEIGHT	MATERIAL	FINISH		
101	I	MTL	PT-2	A	3'-0"	7'-0"	HM	PT-2	SEE DOOR HARDWARE SCHEDULE	DOOR SIGNAGE TO BE PROVIDED
102	I	MTL	PT-2	A	3'-0"	7'-0"	HM	PT-2	SEE DOOR HARDWARE SCHEDULE	DOOR SIGNAGE TO BE PROVIDED
102A	(none)	N/A	N/A	B	2'-6"	7'-0"	HDPE	MATCH PARTITION	PER MANUFACTURERS' RECOMMENDATIONS	PROVIDE COAT HOOK ON BACK OF DOOR
102B	(none)	N/A	N/A	B	3'-0"	7'-0"	HDPE	MATCH PARTITION	PER MANUFACTURERS' RECOMMENDATIONS	PROVIDE COAT HOOK ON BACK OF DOOR
103	I	MTL	PT-2	A	3'-0"	7'-0"	HM	PT-2	SEE DOOR HARDWARE SCHEDULE	DOOR SIGNAGE TO BE PROVIDED
103A	(none)	N/A	N/A	B	2'-6"	7'-0"	HDPE	MATCH PARTITION	PER MANUFACTURERS' RECOMMENDATIONS	PROVIDE COAT HOOK ON BACK OF DOOR
103B	(none)	N/A	N/A	B	2'-6"	7'-0"	HDPE	MATCH PARTITION	PER MANUFACTURERS' RECOMMENDATIONS	PROVIDE COAT HOOK ON BACK OF DOOR
103C	(none)	N/A	N/A	B	3'-0"	7'-0"	HDPE	MATCH PARTITION	PER MANUFACTURERS' RECOMMENDATIONS	PROVIDE COAT HOOK ON BACK OF DOOR
104	I	MTL	PT-2	B	3'-0"	7'-0"	HM	PT-2	SEE DOOR HARDWARE SCHEDULE	DOOR SIGNAGE TO BE PROVIDED
105	I	MTL	PT-2	C	6'-0"	7'-0"	HM	PT-2	SEE DOOR HARDWARE SCHEDULE	DOOR SIGNAGE TO BE PROVIDED

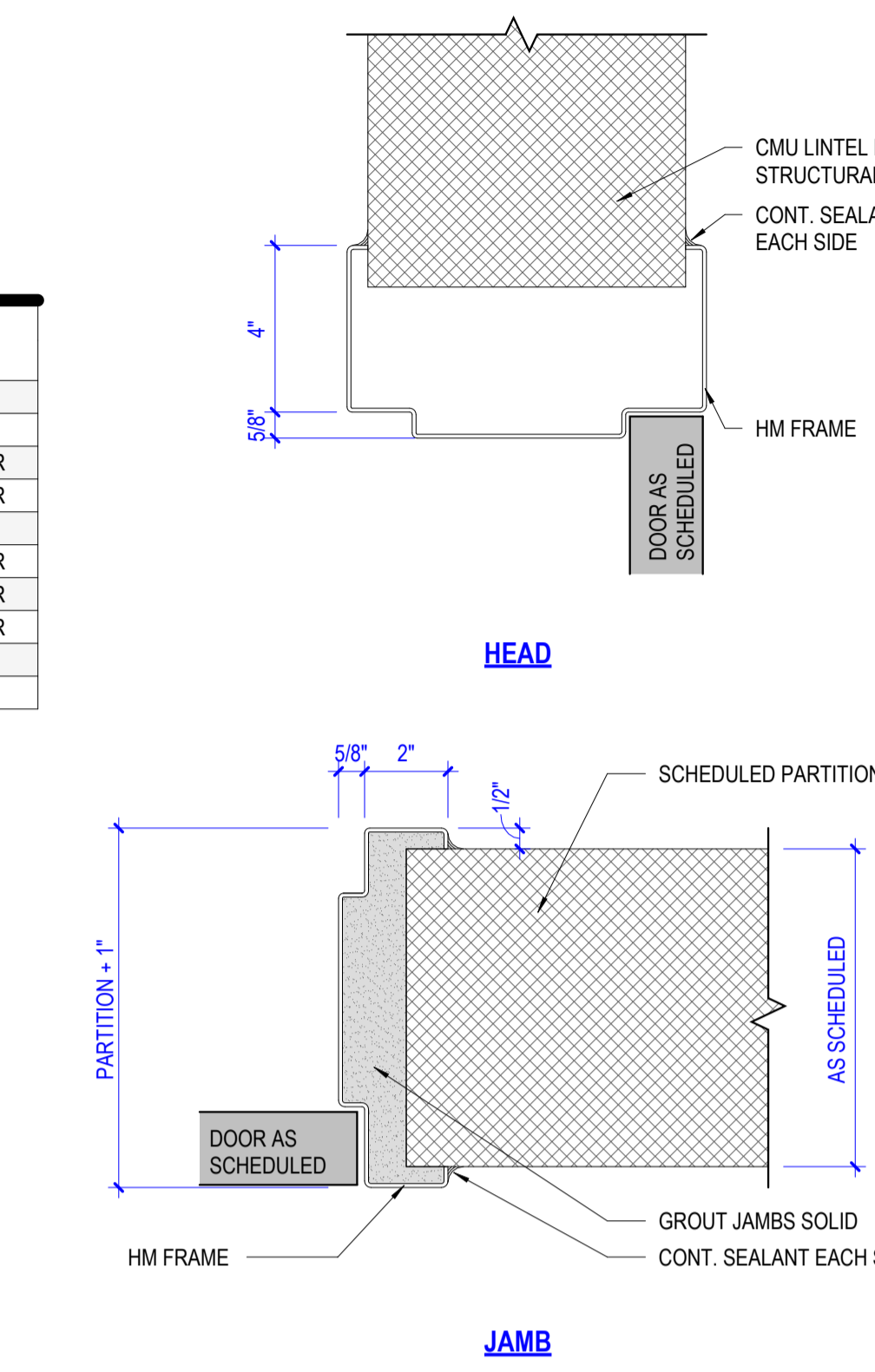
NOTE: FINAL DOOR SIGNAGE DESIGN TO BE SELECTED BY ARCHITECT WITH SELECTED FABRICATOR



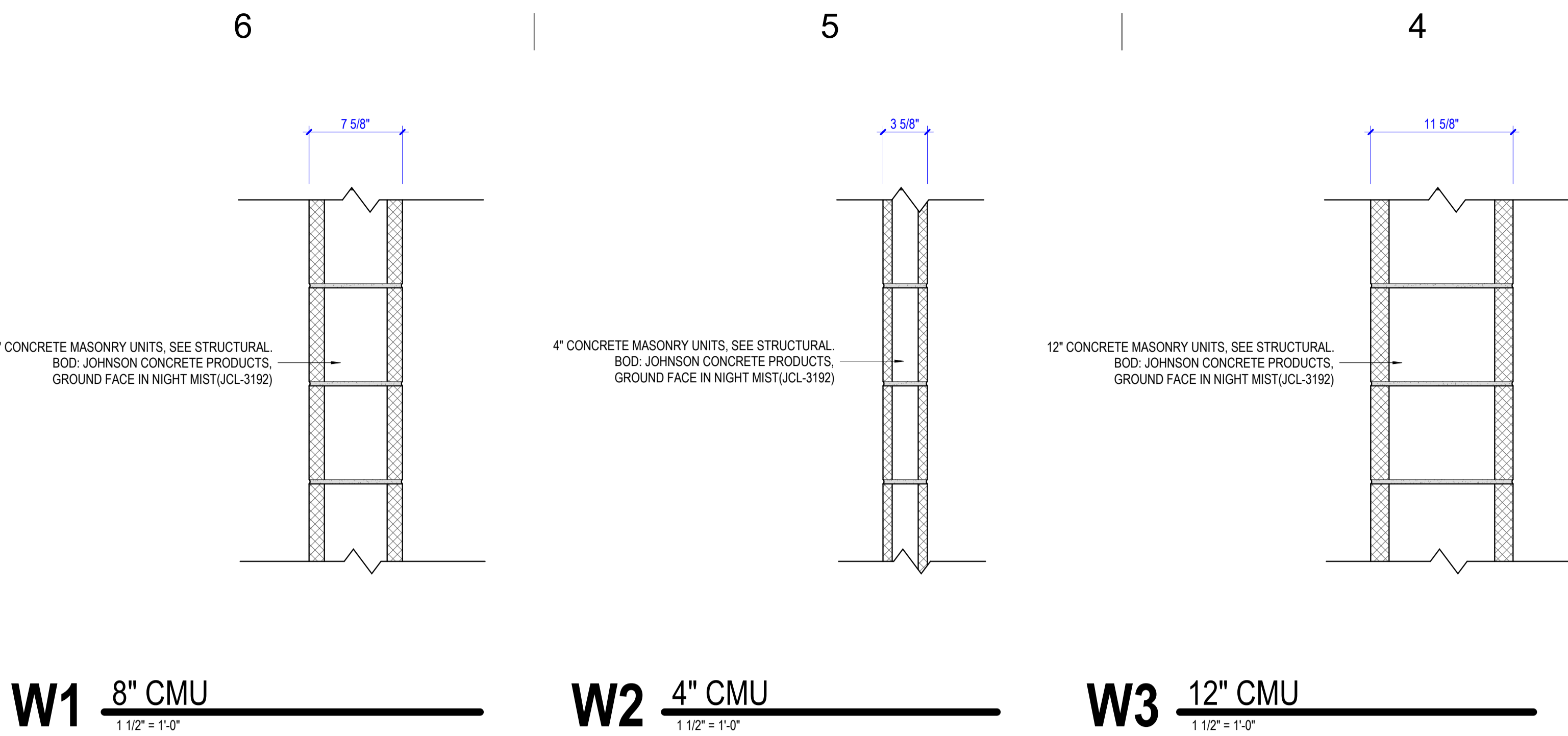
FRAME TYPES



PANEL TYPES



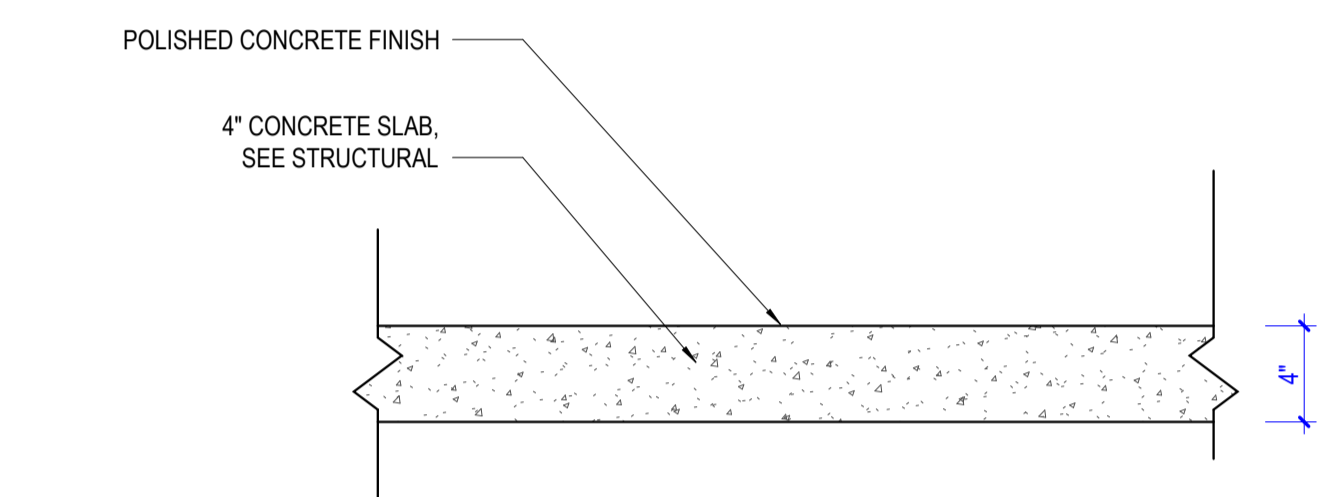
HM FRAME @ CMU



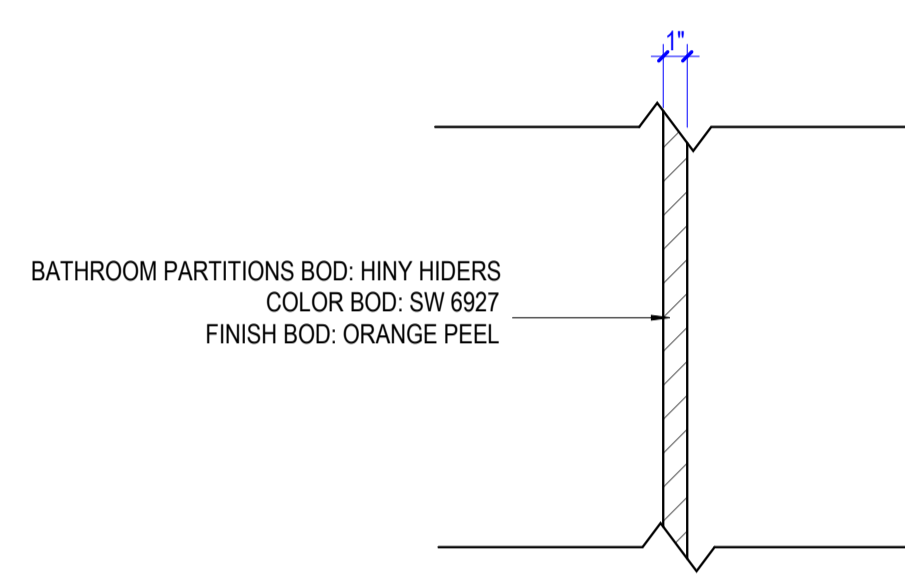
W1 8" CMU

W2 4" CMU

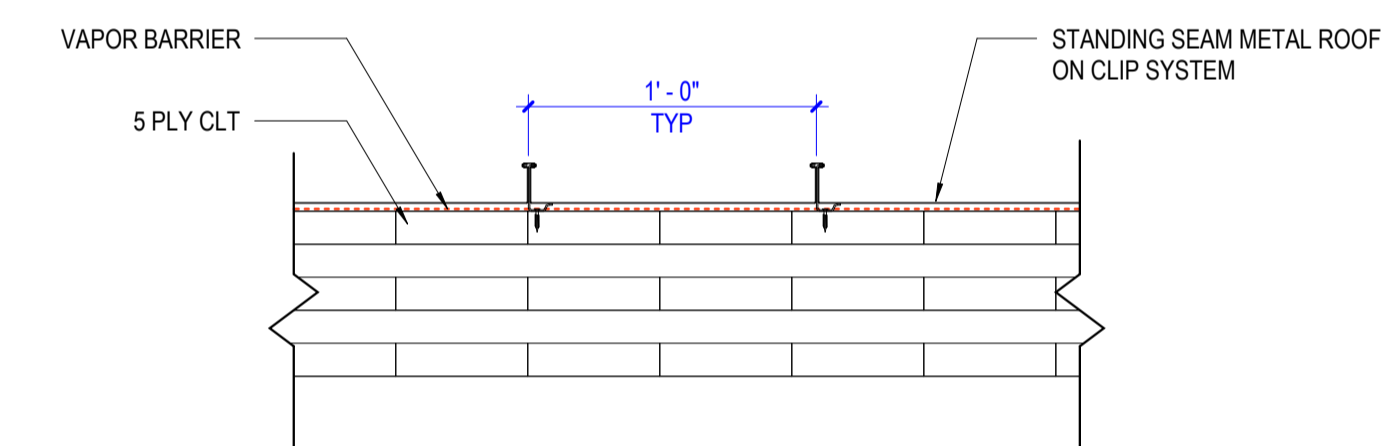
W3 12" CMU



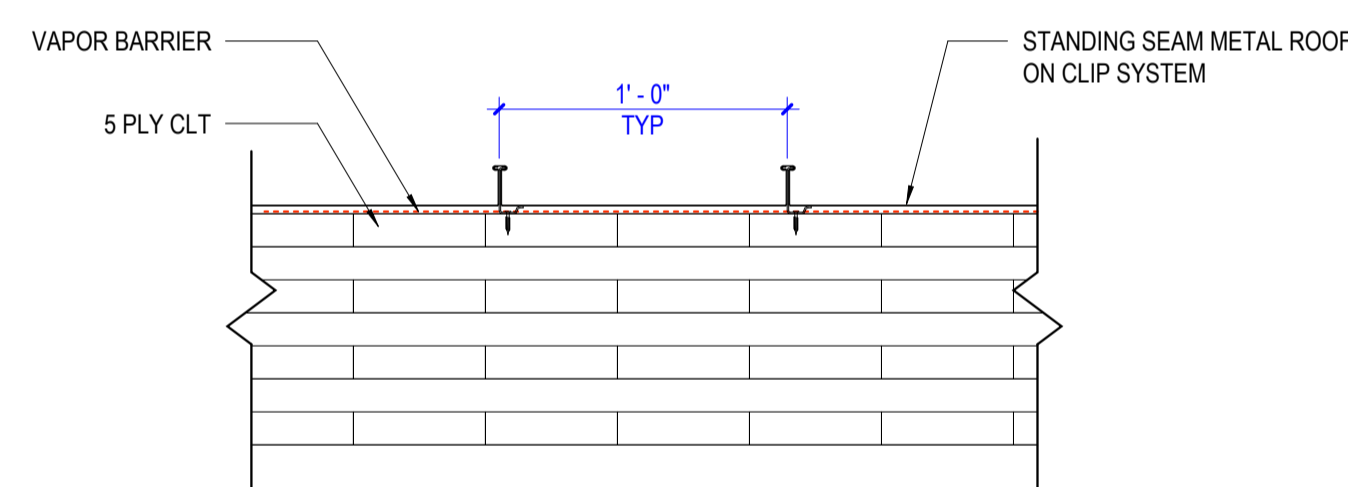
F1 FLOOR TYPE



W4 1" TOILET PARTITION



R1 5 PLY ROOF TYPE



R2 7 PLY ROOF TYPE (SHADE STRUCTURE)

FINISH LEGEND

- STANDING SEAM METAL ROOF - BOD: MBCI, TUNDRA
- HEAVY GAUGE METAL ROOF TRIM - LIGHT GRAY, COLOR TO MATCH STANDING SEAM METAL ROOF
- CLT & GLULAMS - BOD: SANSIN KP-12 CLEAR COAT FINISH (FACTORY APPLIED), FIELD TOUCH UPS AS REQUIRED
- CMU BLOCK - BOD: JOHNSON CONCRETE PRODUCTS, GROUND FACE IN NIGHT MIST(JCL-3192)
- GROUT - BOD: HOLCIM SANTEE BLACK S
- STEEL FRAMED CASED OPENINGS & BENCH - (PT-1) POWDER COAT - BOD: R:16 G:94 B:43 (CITY OF CLEMSON COLOR)
- CONCRETE FLOORS (INTERIOR) - GLOSS LEVEL: LEVEL 3 FINISH - 800 GRIT. AGGREGATE EXPOSURE: CLASS A CREAM TO CLASS B SALT & PEPPER
- DOORS - (PT-2) PAINTED GRAY - BOD: SW7067 (CITYSCAPE)
- DOOR FRAMES - (PT-2) PAINTED GRAY - BOD: SW7067 (CITYSCAPE)
- WINDOW FRAMES - (PT-3) PAINTED BLACK - BOD: SW6991 (BLACK MAGIC)
- LOUVER & LOUVER FRAME - (PT-2) PAINTED GRAY - BOD: SW7067 (CITYSCAPE)
- GLAZING SPEC - (GL-1) CLEAR TEMPERED GLASS, ASTM C1036, TYPE 1, CLASS 1, Q3
- COLUMN / BEAM CONNECTIONS (STEEL) - (PT-4) POWDER COAT - BOD: SW6991 (BLACK MAGIC)
- PRESSURE TREATED BLOCKING - (PT-3) PAINTED BLACK - SW6991 (BLACK MAGIC)

DOOR HARDWARE SCHEDULE

DOOR 101 & 104

- (3) HINGES
- MORTISE LOCKSET
- (1) WALL MOUNTED DOOR STOP
- (3) SEALS / SILENCERS

DOOR 102 & 103

- (3) HINGES
- PASSAGE LATCH
- (1) KICKPLATE (MOUNT ON INSIDE ROOM FACE)
- (1) WALL MOUNTED DOOR STOP
- (3) SEALS / SILENCERS
- CLOSER (MOUNT ON INSIDE ROOM FACE)

DOOR 105 (DOUBLE DOOR)

- (3) HINGES (FOR EACH DOOR)
- MORTISE LOCKSET
- (3) SEALS / SILENCERS (FOR EACH DOOR)
- (1) FLOOR MOUNTED DOOR STOP (FOR EACH DOOR)

NOTE:

MORTISE LOCKSET

- STANLEY SECURITY SOLUTIONS, BEST HARDWARE/4SH SERIES
- 7 CORE HOUSING
- "D" FUNCTION CODE
- 15 LEVER STYLE
- "J" TRIM STYLE WITH FULL ESCUTCHEON

HINGES

- MCKINNEY - FULL MORTISE HINGES

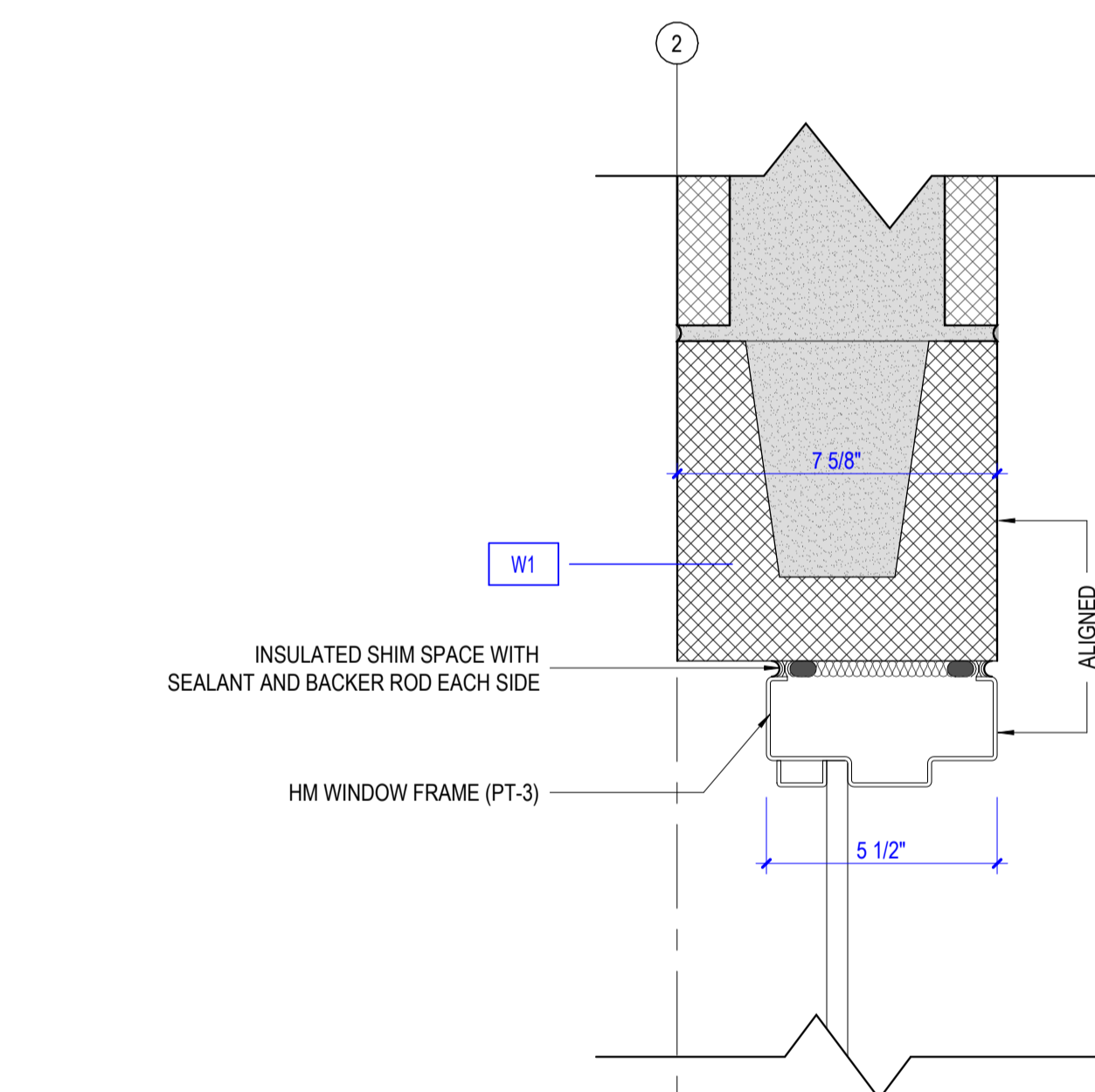
CLOSERS

- LCN 4011
- LCN 4111

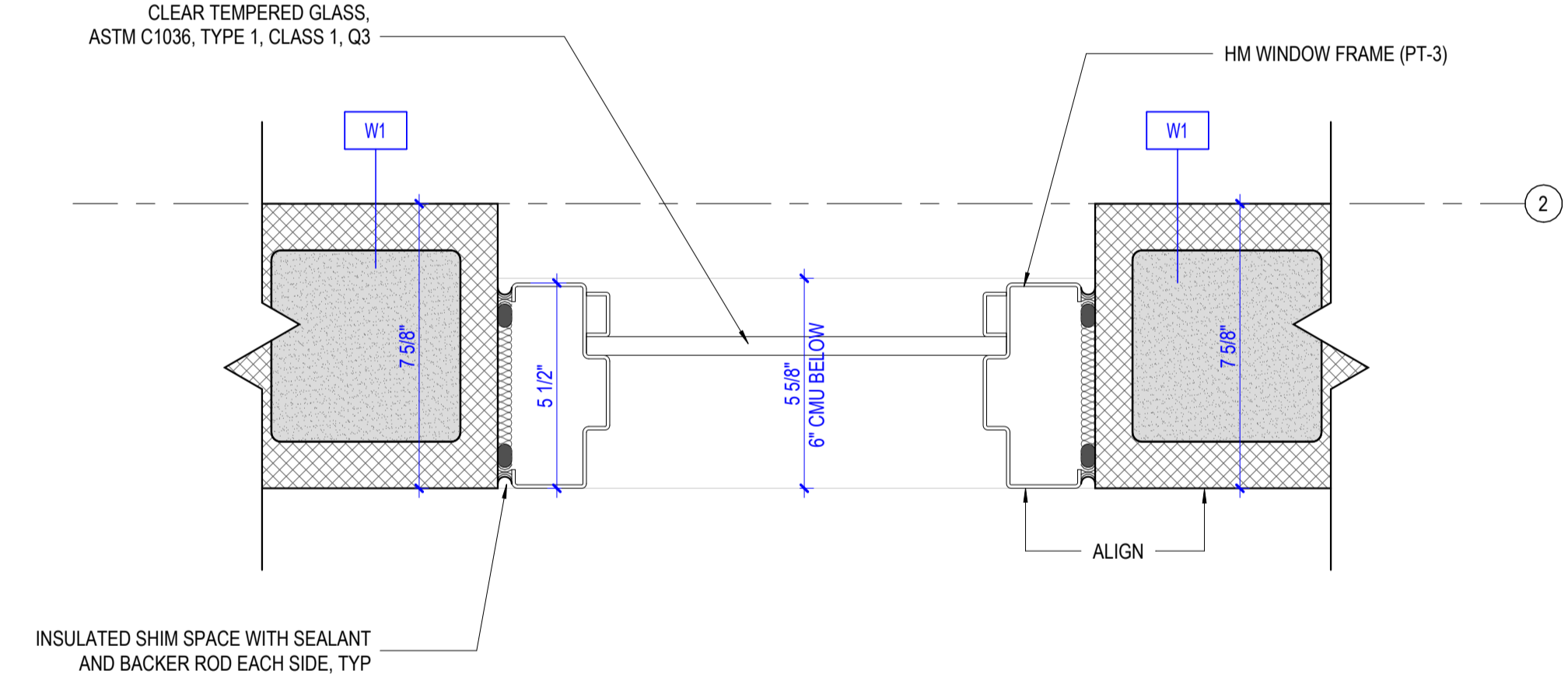
CORES

- INTERCHANGEABLE (7-PIN) CORES AS MANUFACTURED BY STANLEY SECURITY SOLUTIONS (BEST UNIVERSAL)

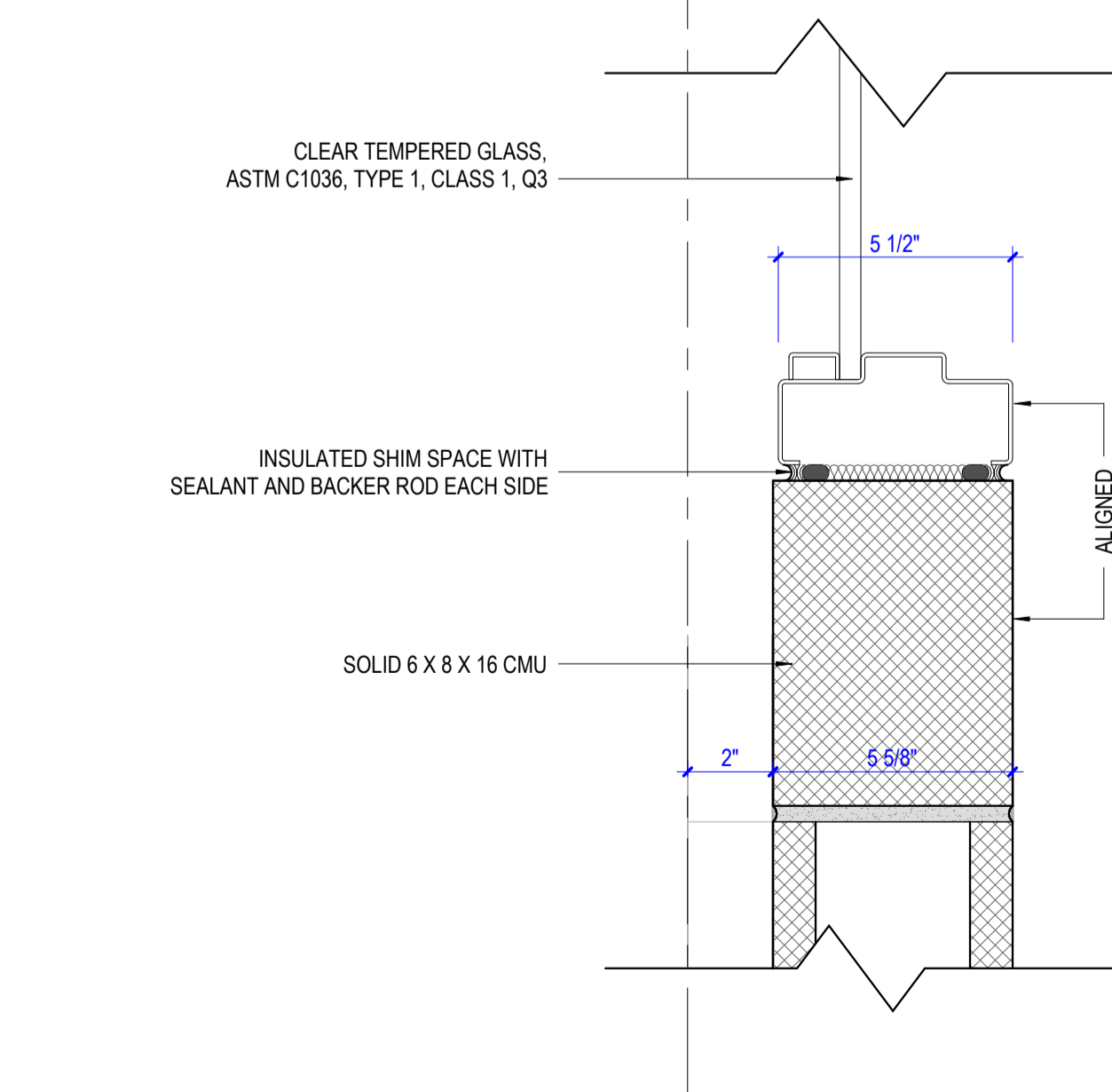
*ALL DOOR HARDWARE SHALL COMPLY WITH CITY STANDARDS. FINAL APPROVAL OF HARDWARE TO BE COORDINATED BY GC WITH OWNER AND ARCHITECT. ALL DOOR HARDWARE TO BE EXTERIOR GRADE



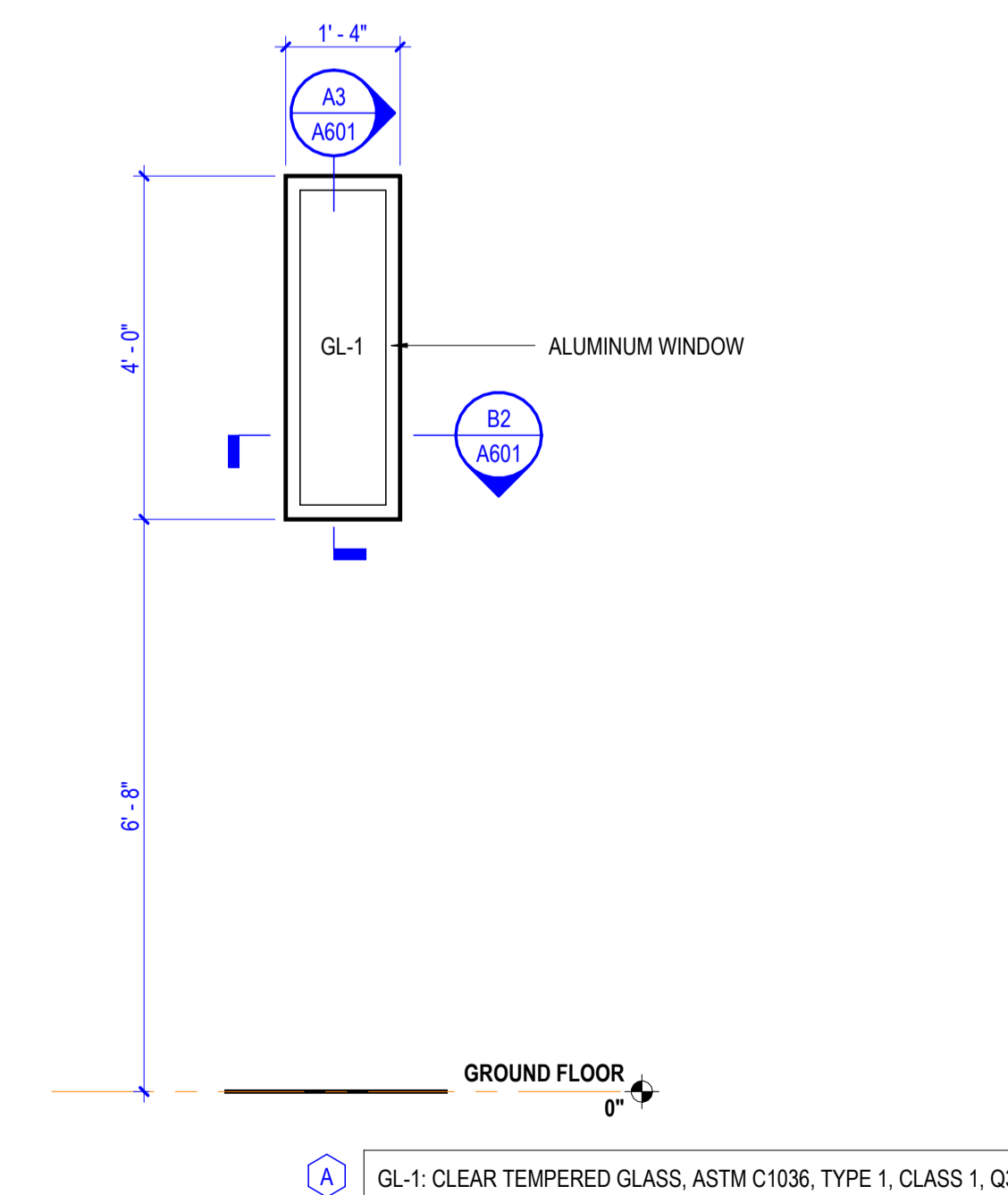
A3 SECTION DETAIL - WINDOW TYPE 'A' HEAD / SILL



B2 PLAN DETAIL - WINDOW TYPE 'A' JAMB



A3 SECTION DETAIL - WINDOW TYPE 'A'



ELEVATION - WINDOW TYPE 'A'

HANBURY

www.hanbury.design
208 Frontage Road, Suite 1A
Clemson, SC 29631
+1 864 392 5475

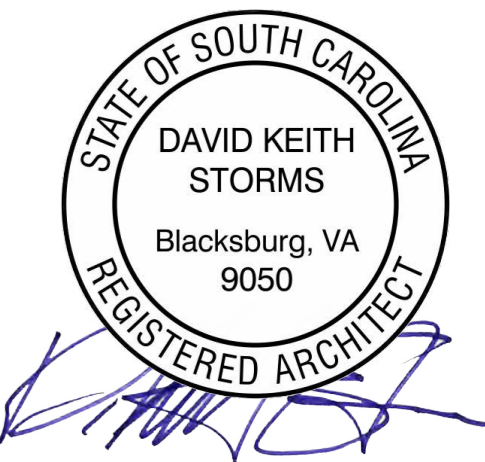
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Keyplan



2 11/1/2024 100% CONSTRUCTION DOCUMENTS
1 10/1/2024 90% CONSTRUCTION DOCUMENTS



**CLEMSON CITY PARK
CLEMSON, SOUTH CAROLINA**

Project Number: 21017.01
Status & Date: 2
11/01/2024

Sheet Title:
A 3D REPRESENTATIONS

A901

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1

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E

D



E

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C



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B



B

1

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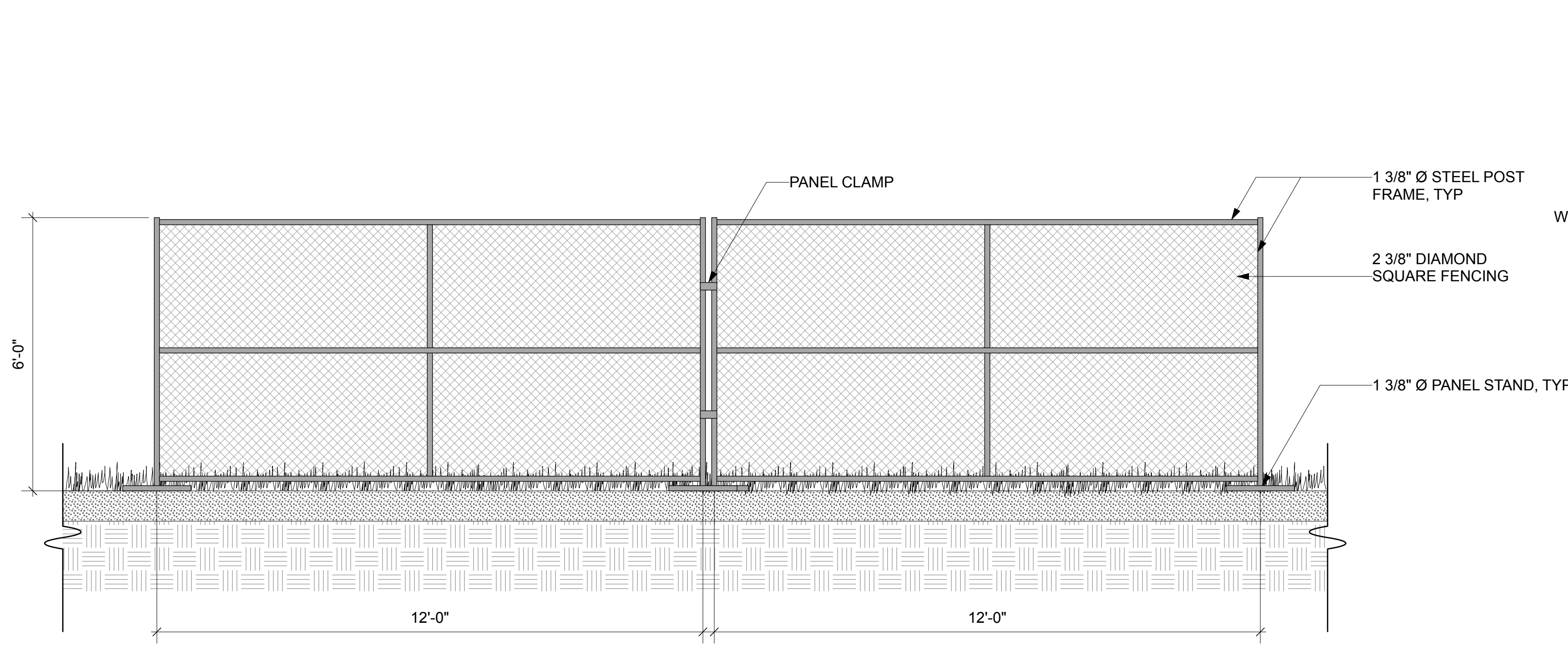
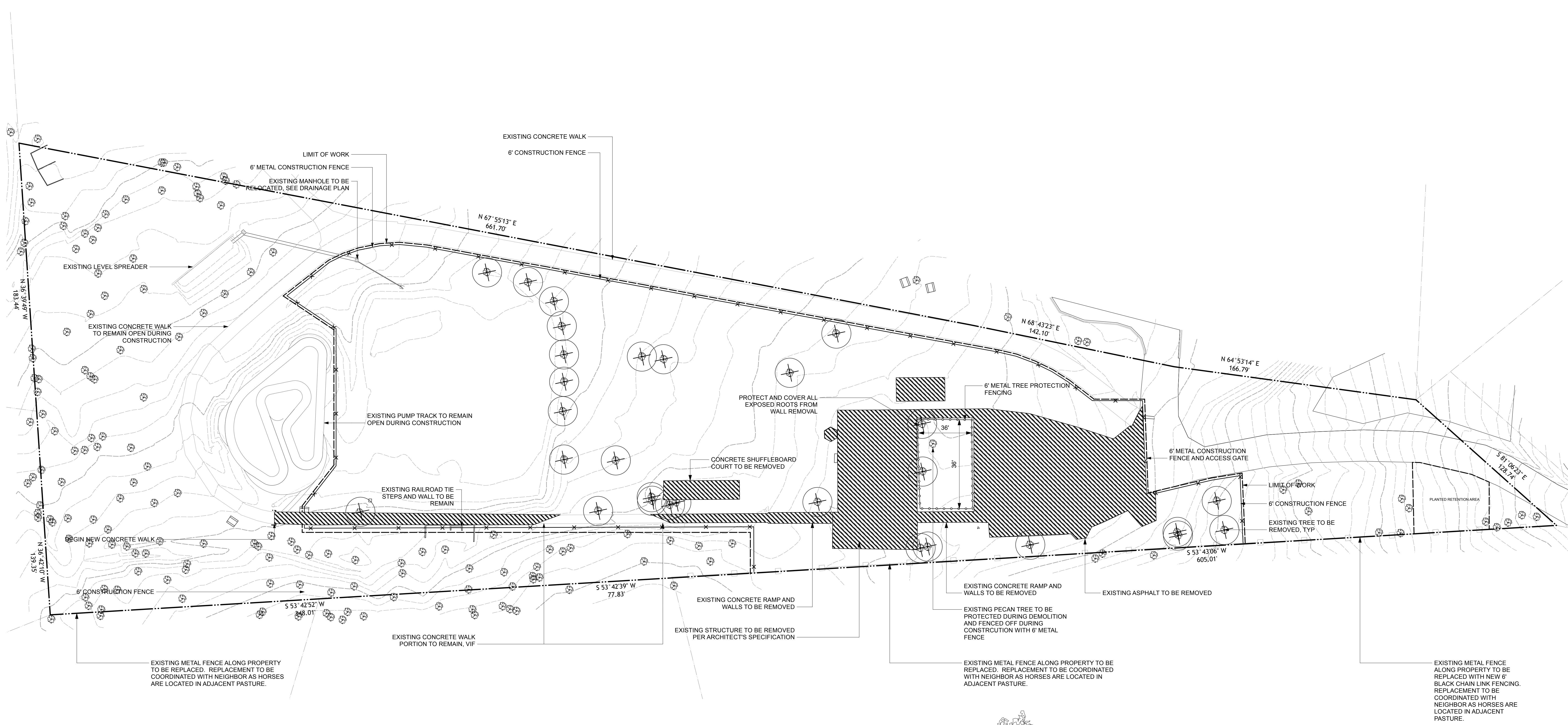
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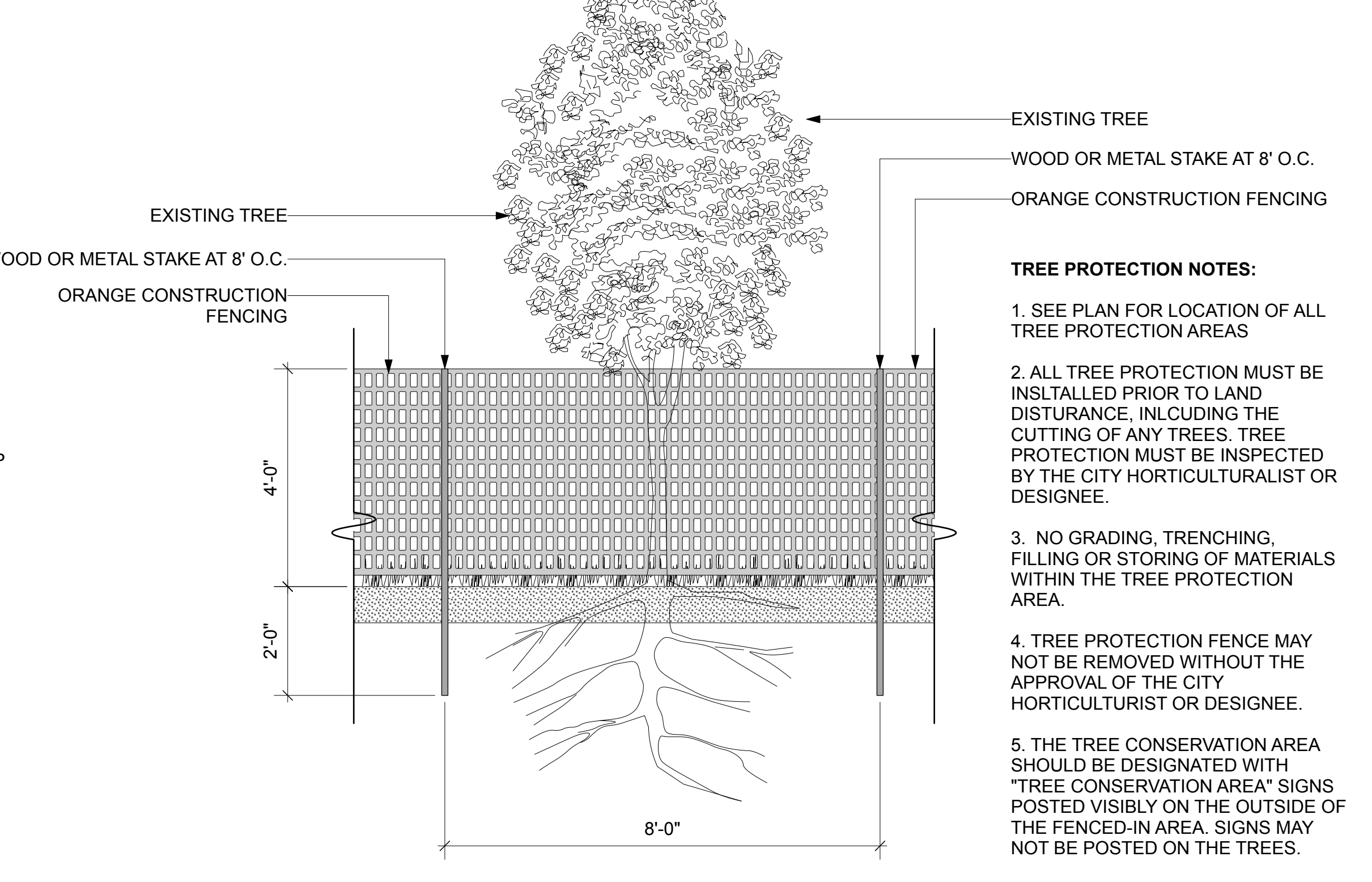
6

GENERAL NOTES
 1. Existing conditions and topography data are from a survey prepared by Ridgewater Engineering & Surveying, P.O. Box 806 Anderson, SC 29622. (864) 228-0880.
 2. Contractor shall verify location of any existing utilities and services and provide protection during construction. Utilities damaged during construction shall be repaired at contractor's expense.
 3. Contractor shall obtain permits for the work as required and comply with all laws, ordinances, rules and regulations of the local jurisdiction, the state, and all other authorities having jurisdiction.
 4. Contractor shall leave site clean and orderly during construction process. Remove from site all excess materials, soil, debris and equipment. Store materials only in an approved location.

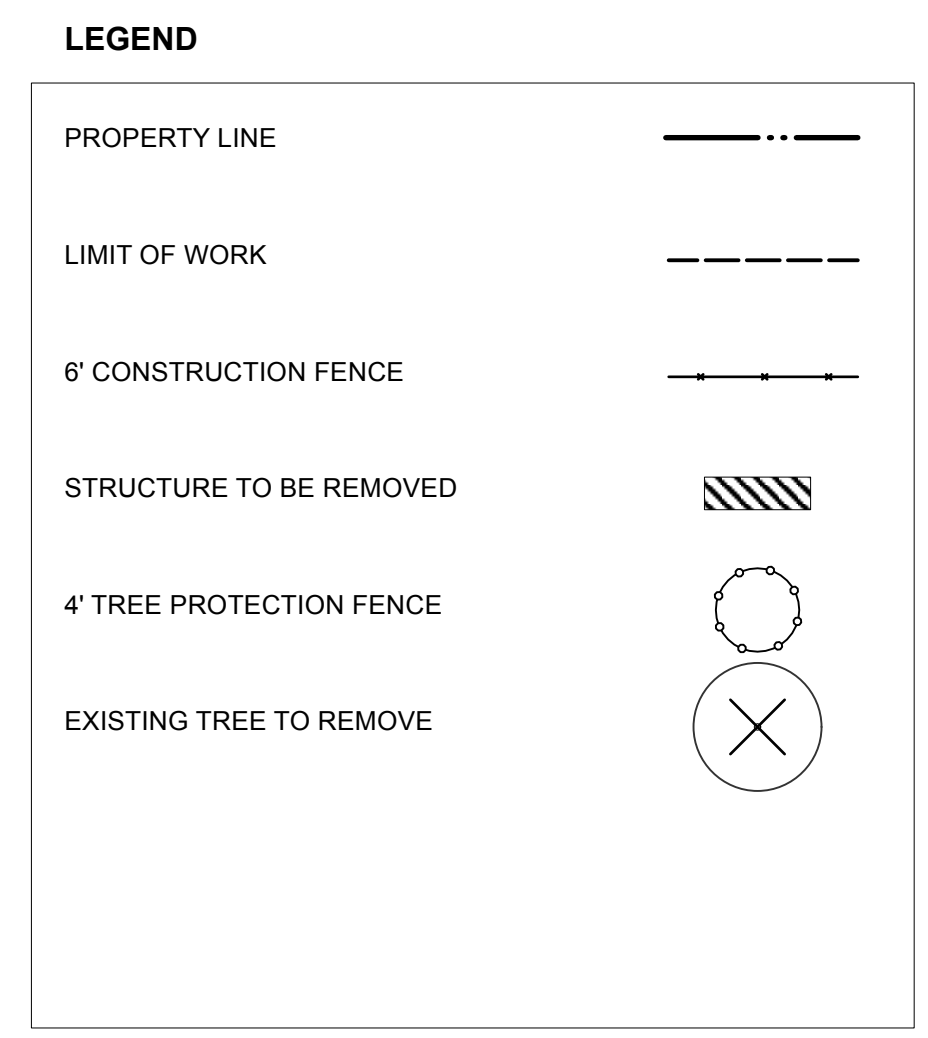
SITE DEMOLITION NOTES
 1. Contractor shall verify all existing conditions in the field and report any discrepancies between plans and actual conditions to Landscape Designer before beginning work.
 2. Tree and shrub removal shall include the felling, cutting, grubbing out of roots and satisfactory off-site disposal of all stumps, vegetative and extraneous debris produced through the removal operations.
 3. Existing trees and shrubs to remain shall not be altered under any circumstances and must remain in the same condition as observed prior to construction.
 4. Existing trees, shrubs, and perennials/groundcover to be relocated shall be balled and burlapped, heeled-in and maintained (including watering, pruning, fertilization, etc.) by contractor on-site until new planting area is prepared.
 5. No heavy machinery is to be used within the root system of existing trees. Excavation within root system zones is to be performed by hand.
 6. Any items scheduled to remain which are damaged by Contractor's operations shall be replaced Contractor's expense.
 7. Any plants scheduled to be relocated and stockpiled on site which are damaged by Contractor's operations shall be replaced Contractor's expense.
 8. Area for stockpiled items shall be located by Landscape Designer and approved by owner prior to removal operations.
 9. Contractor shall leave work site free of any debris at the end of each day's operations.



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

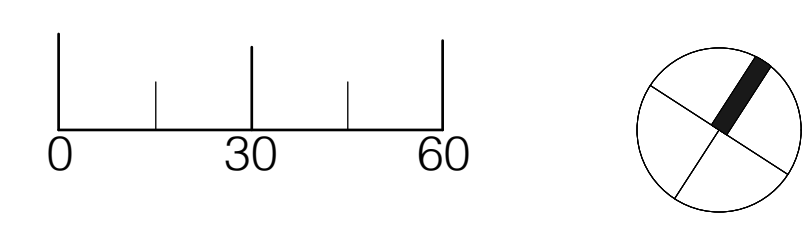


2 Tree Protection Fence
 Scale: 1/2" = 1'-0"



TREE PROTECTION NOTES:

- SEE PLAN FOR LOCATION OF ALL TREE PROTECTION AREAS
- ALL TREE PROTECTION MUST BE INSTALLED PRIOR TO LAND DISTURBANCE, INCLUDING THE CUTTING OF ANY TREES. TREE PROTECTION MUST BE INSPECTED BY THE CITY HORTICULTURALIST OR DESIGNEE.
- NO GRADING, TRENCHING, FILLING OR STORING OF MATERIALS WITHIN THE TREE PROTECTION AREA.
- TREE PROTECTION FENCE MAY NOT BE REMOVED WITHOUT THE APPROVAL OF THE CITY HORTICULTURALIST OR DESIGNEE.
- THE TREE CONSERVATION AREA SHOULD BE DESIGNATED WITH "TREE CONSERVATION AREA" SIGNS POSTED VISIBLY ON THE OUTSIDE OF THE FENCED-IN AREA. SIGNS MAY NOT BE POSTED ON THE TREES.



RDO
 RUSSELL DESIGN OFFICE
 Clemson
 864.643.7794

Revisions	Number	Date	Description
	1	6.16.24	50% Progress Set
	2	10.01.24	90% CD
	3	11.01.24	100% CD

Scale 1"=30'-0" Date 8/16/24
 Title **Site Preparation Plan**
 Sheet No **L-1.0**

CLEMSON PARK

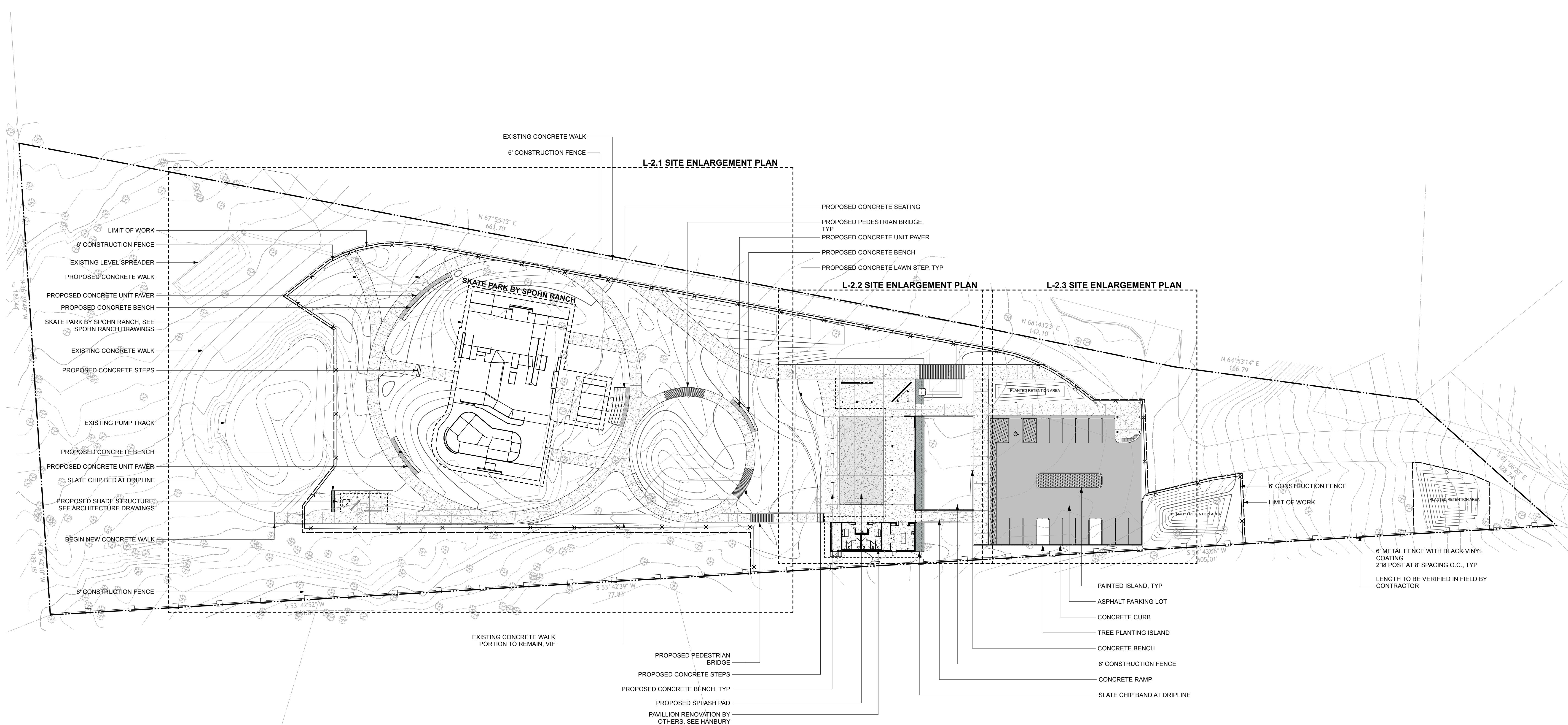
CLEMSON, SC

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- Contractor shall obtain permits for the work as required and comply with all laws, ordinances, rules and regulations of the local jurisdiction, the state, and all other authorities having jurisdiction.
- Contractor shall leave site clean and orderly during construction process. Remove from site all excess materials, soil, debris and equipment. Store materials only in an approved location.

LAYOUT NOTES

- Do not scale drawings.
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- See planting plans for location of trees and shrubs, planting beds and extent of sodding and seeding.
- See architectural drawings for all building dimensions.
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MOCK-UPS:

PHYSICAL MOCK-UPS INCLUDING BUT NOT LIMITED TO THE FOLLOWING SHALL BE PROVIDED TO DESIGN TEAM FOR REVIEW PRIOR TO INSTALLATION.

- SANDBLASTED CONCRETE BENCH
- LIGHT BROOM FINISH CONCRETE PATH
- SLATE CHIP SAMPLE

SUBMITTALS:

SUBMITTALS AND SHOP DRAWINGS, INCLUDING BUT NOT LIMITED TO THE FOLLOWING SHALL BE PROVIDED TO DESIGN TEAM FOR REVIEW PRIOR TO INSTALLATION.

- BLACK VINYL PERIMETER FENCING
- ADA PARKING SIGNAGE
- CONCRETE WHEEL STOP
- REMOVABLE BOLLARD AT TRAIL
- PERMANENT BOLLARD AT TRAIL
- SPLASH PAD JET TYPES
- SPLASH PAD ACTIVATOR
- SPLASH PAD CONTROL PANEL
- SPLASH PAD MANIFOLD
- SPLASH PAD DRAIN
- BOLLARDS AT SPLASH PAD
- SCORE JOINT PLAN AT SPLASH PAD / PAVILLION
- LAYOUT PLAN CONCRETE LAWN STEPS
- STEEL BEAMS AT PEDESTRIAN BRIDGES
- WATERFOUNTAINS
- HOSE BIBBS
- CONCRETE UNIT PAVING
- TRUNCATED DOME UNIT PAVING
- TINTED CONCRETE AT SPLASH PAD

LEGEND

PROPERTY LINE	---
LIMIT OF WORK	- - - -
6' CONSTRUCTION FENCE	—
EXISTING CONCRETE	□
PROPOSED CONCRETE	▨
PROPOSED TINTED CONCRETE	▩
CONCRETE UNIT PAVING	■
ASPHALT PAVING	■
SLATE CHIPS	■
WOOD BRIDGE	■
CONCRETE BENCH	■
WHEEL STOP	—
STEEL BOLLARD	●

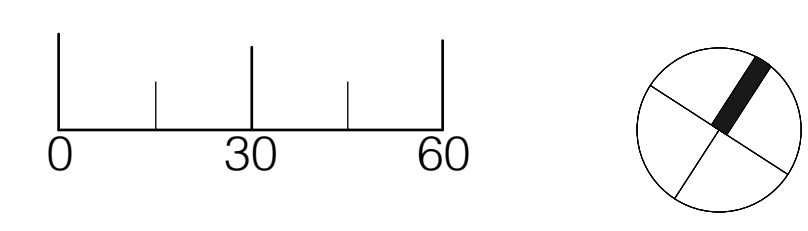
Revisions

Number	Date	Description
1	6.16.24	50% Progress Set
2	10.01.24	90% CD
3	11.01.24	100% CD

Scale 1"=30'-0" Date 8/16/24

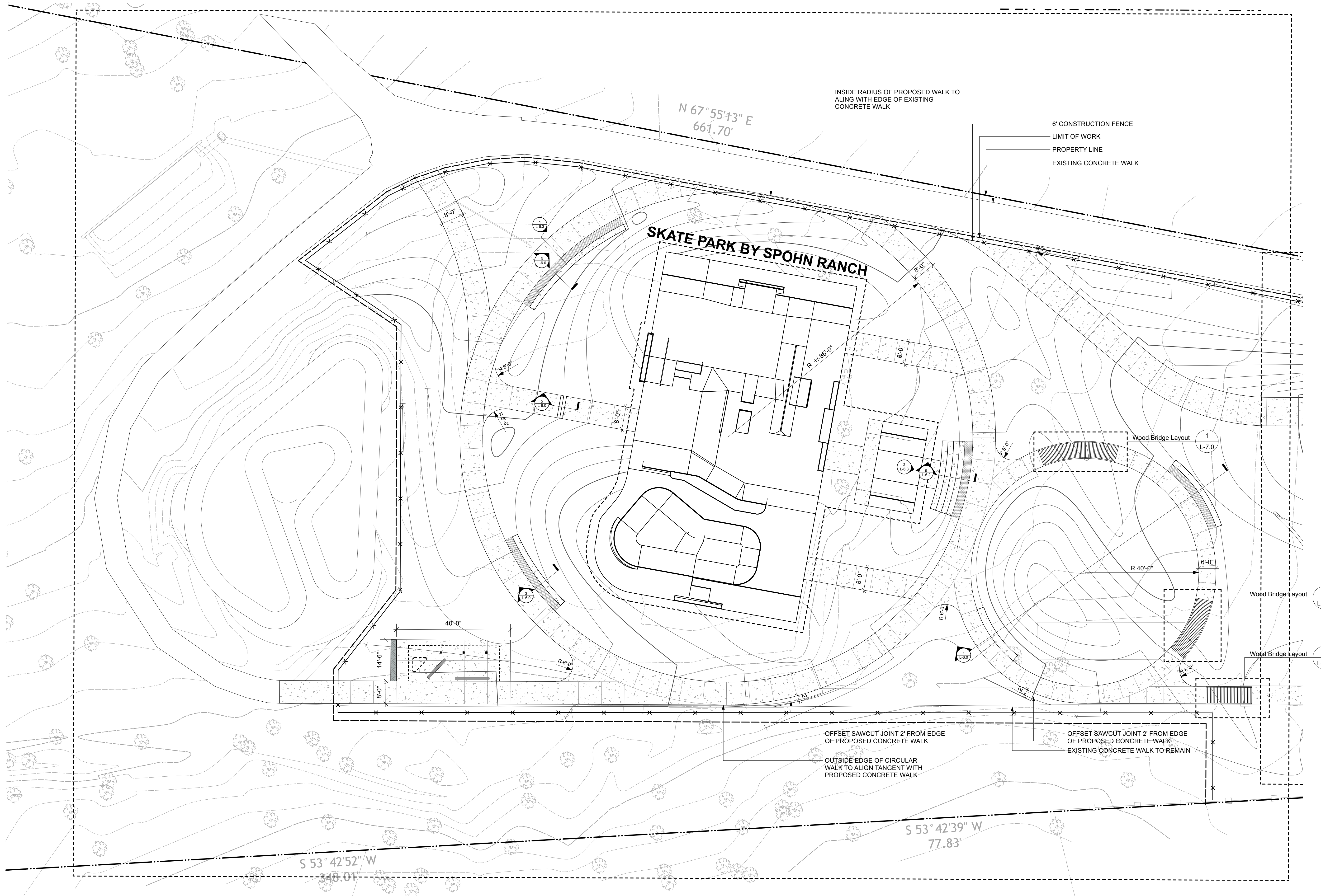
Title
Site Materials & Layout Plan

Sheet No
L-2.0



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LEGEND

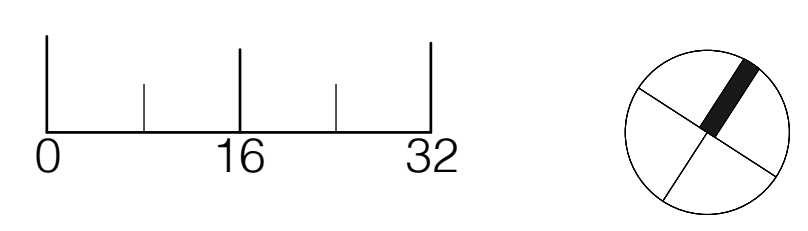
- PROPERTY LINE
- LIMIT OF WORK
- 6' CONSTRUCTION FENCE
- EXISTING CONCRETE
- PROPOSED CONCRETE
- PROPOSED TINTED CONCRETE
- CONCRETE UNIT PAVING
- ASPHALT PAVING
- SLATE CHIPS
- WOOD BRIDGE
- CONCRETE BENCH
- WHEEL STOP
- STEEL BOLLARD

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 Clemson
 864.643.7794

Number	Date	Description
1	6.16.24	50% Progress Set
2	10.01.24	90% CD
3	11.01.24	100% CD

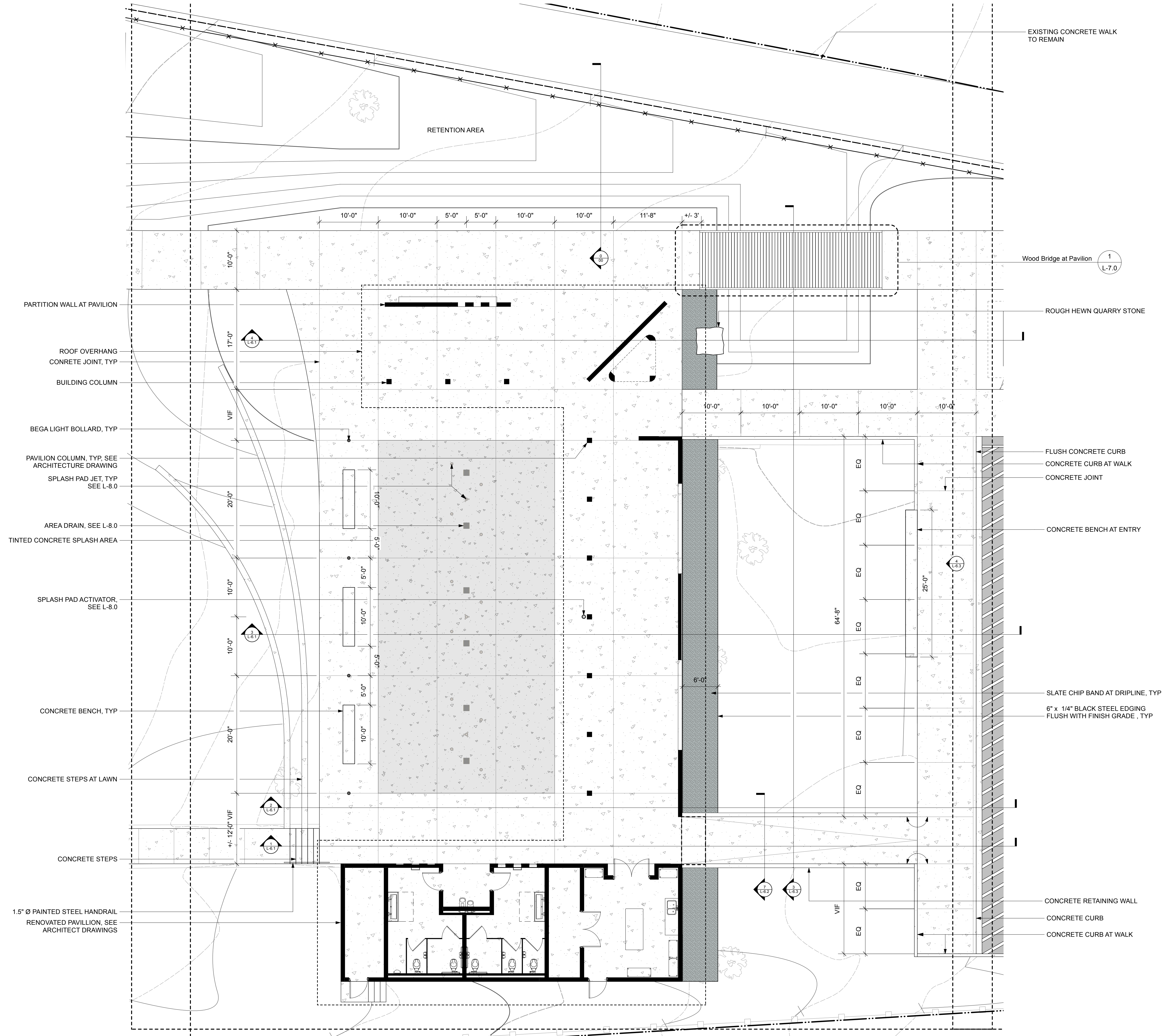
Scale 1/16"=1'-0" Date 8/16/24
 Title
Site Enlargement Plan

Sheet No
L-2.1



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LEGEND

PROPERTY LINE	---
LIMIT OF WORK	---
6" CONSTRUCTION FENCE	---
EXISTING CONCRETE	□
PROPOSED CONCRETE	□
PROPOSED TINTED CONCRETE	□
CONCRETE UNIT PAVING	□
ASPHALT PAVING	□
SLATE CHIPS	□
WOOD BRIDGE	□
CONCRETE BENCH	□
WHEEL STOP	□
STEEL BOLLARD	○

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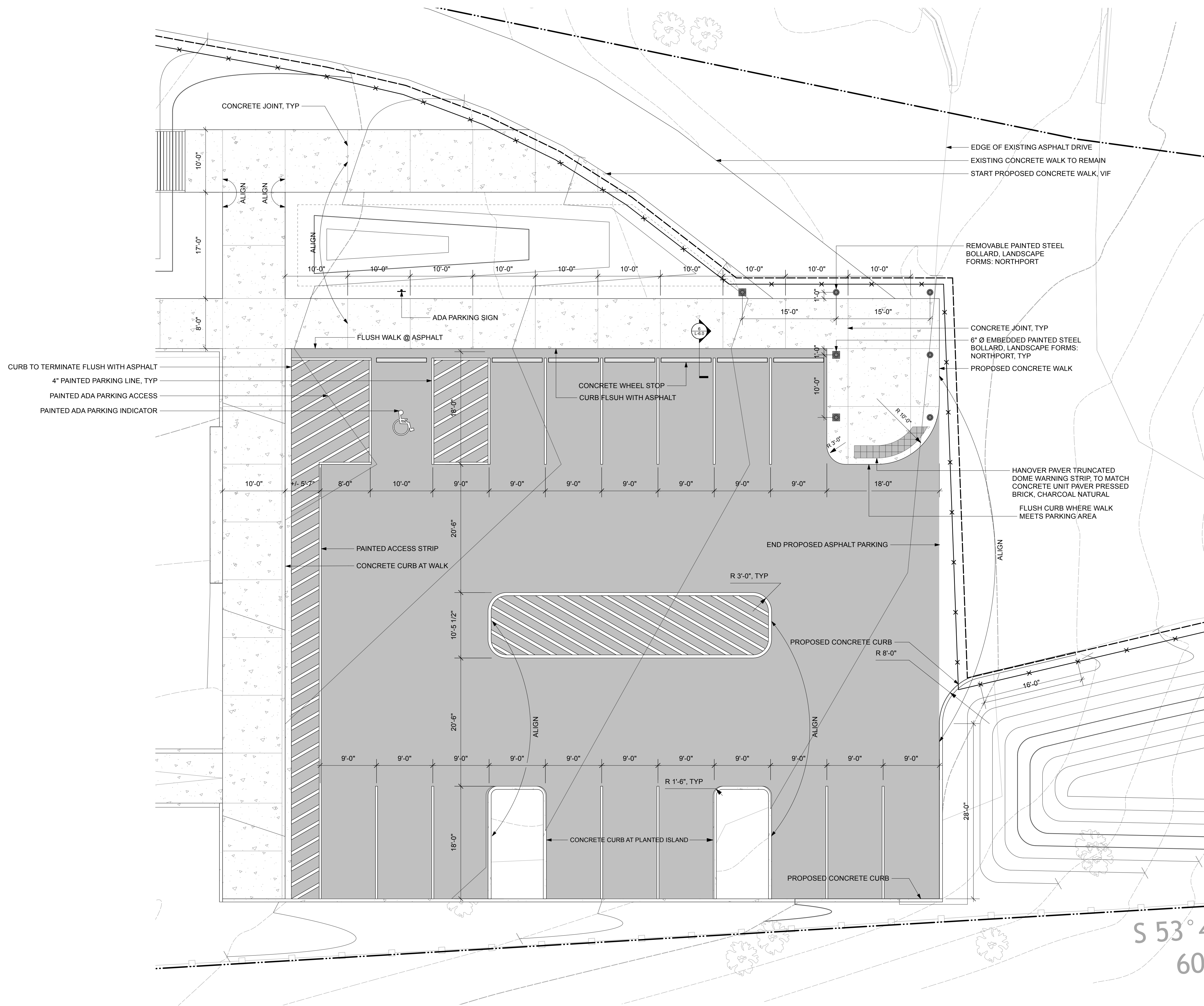
Revisions	Number	Date	Description
	1	6.16.24	50% Progress Set
	2	10.01.24	90% CD
	3	11.01.24	100% CD

Scale 1/8"=1'-0" Date 8/16/24
 Title
Site Enlargement Plan

Sheet No
L-2.2

GENERAL NOTES
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LEGEND

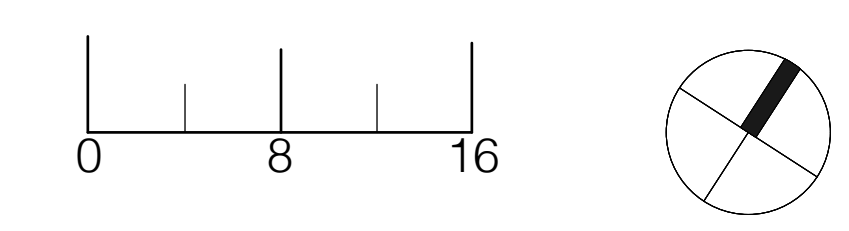
PROPERTY LINE	---
LIMIT OF WORK	---
6" CONSTRUCTION FENCE	---
EXISTING CONCRETE	□
PROPOSED CONCRETE	□
PROPOSED TINTED CONCRETE	□
CONCRETE UNIT PAVING	□
ASPHALT PAVING	□
SLATE CHIPS	□
WOOD BRIDGE	□
CONCRETE BENCH	□
WHEEL STOP	—
STEEL BOLLARD	•

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Revisions	Number	Date	Description
	1	6.16.24	50% Progress Set
	2	10.01.24	90% CD
	3	11.01.24	100% CD

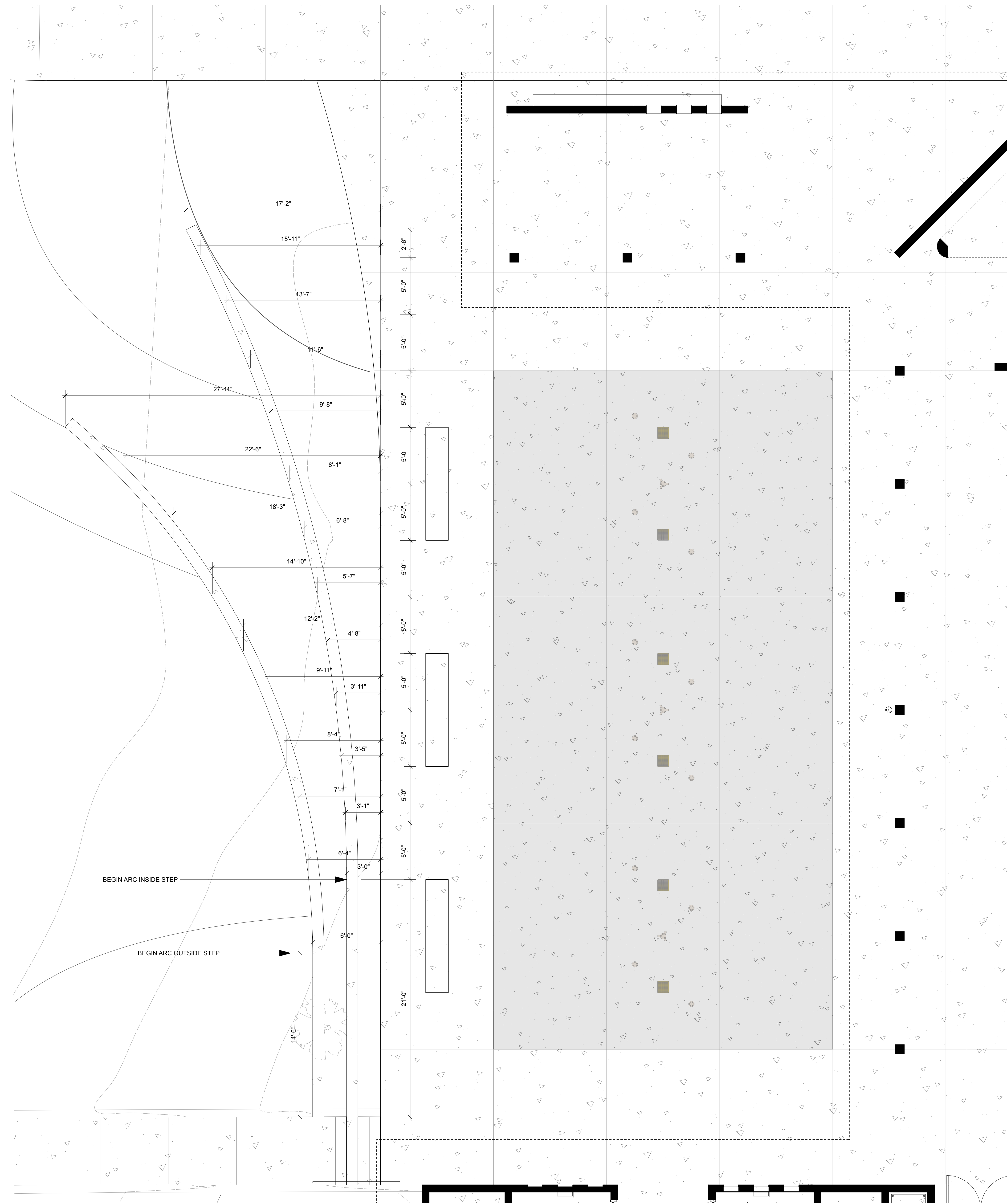
Scale 1/8"=1'-0" Date 8/16/24
 Title
Site Enlargement Plan

Sheet No
L-2.3



GENERAL NOTES
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LEGEND

PROPERTY LINE	---
LIMIT OF WORK	---
6" CONSTRUCTION FENCE	---
EXISTING CONCRETE	□
PROPOSED CONCRETE	□
PROPOSED TINTED CONCRETE	□
CONCRETE UNIT PAVING	□
ASPHALT PAVING	□
SLATE CHIPS	□
WOOD BRIDGE	□
CONCRETE BENCH	□
WHEEL STOP	—
STEEL BOLLARD	●

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Revisions	Number	Date	Description
	1	6.16.24	50% Progress Set
	2	10.01.24	90% CD
	3	11.01.24	100% CD

Scale 1/4"=1'-0" Date 8/16/24
 Title
Lawn Step Layout Plan
 Sheet No
L-2.4

CLEMSON PARK

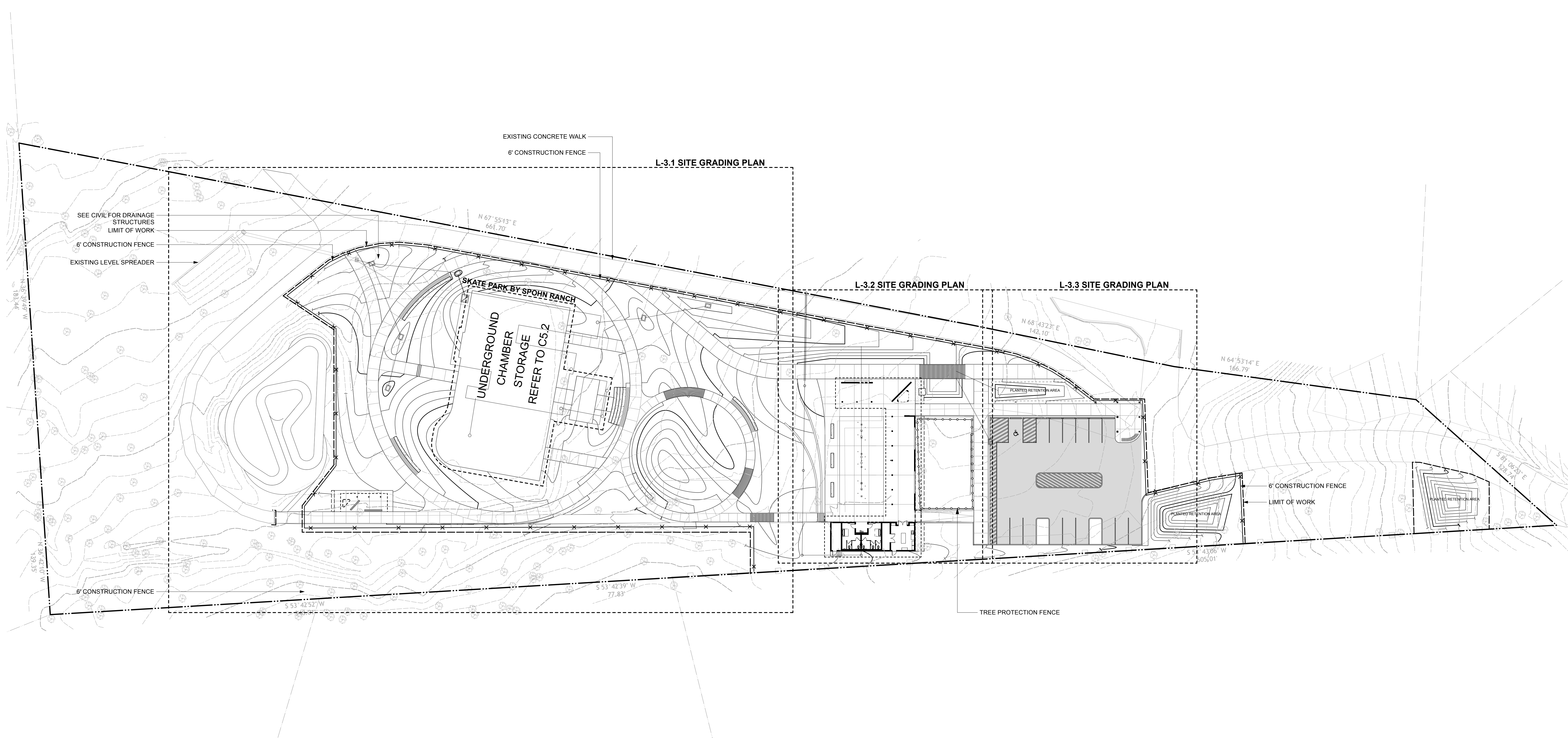
CLEMSON, SC

GENERAL NOTES

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GRADING NOTES

- Contractor shall verify all existing grades in the field and report any discrepancies immediately to the landscape architect.
- Stake proposed finish grade and cut/fills of existing grade in the field. Obtain Landscape Designer's approval prior to commencing construction.
- Slope away from all buildings.
- Provide vertical curves or roundings at abrupt changes in grade unless otherwise noted. Blend new earthwork smoothly into existing grades.
- Maintain existing grades at existing plant material to remain.
- Grade surfaces to assure positive drainage from all structures and to prevent ponding of surface drainage.
- All fill material is subject to approval by Landscape Designer.
- Fitch evenly between spot grades. All paved areas must pitch to drain at a minimum of 1/8" per foot. Any discrepancies not allowing this to occur shall be reported to the Landscape Designer prior to continuing work.
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- See Civil Engineer drawings for all drainage structure locations and elevations.
- Contractor to perform soil tests at the designated locations. Soil to be amended on as per laboratory recommendations. Soils to be retested after amendment and results to be submitted to landscape design team and city horticulturalist for review and approval prior to tree, shrub and perennial planting.



LEGEND

PROPERTY LINE	---
LIMIT OF WORK	----
6' CONSTRUCTION FENCE	----
EXISTING CONTOUR	----
PROPOSED MAJOR CONTOUR	----
PROPOSED MINOR CONTOUR	----
BREAK LINE	----
SWALE CENTERLINE	----
SPOT ELEVATION	+ 815.46
SLOPE ARROW	1.0%

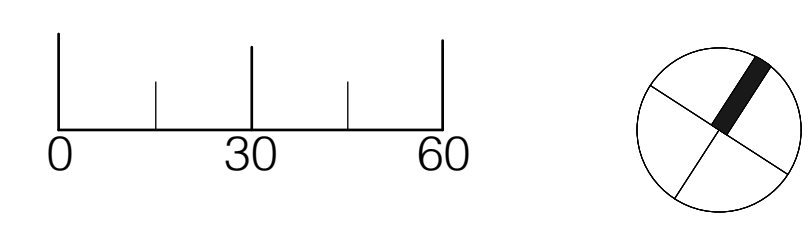
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 864.643.7794

Revisions		
Number	Date	Description
1	6.16.24	50% Progress Set
2	10.01.24	90% CD
3	11.01.24	100% CD

Scale 1"=30'-0" Date 8/16/24

Title
Site Grading Plan

Sheet No
L-3.0

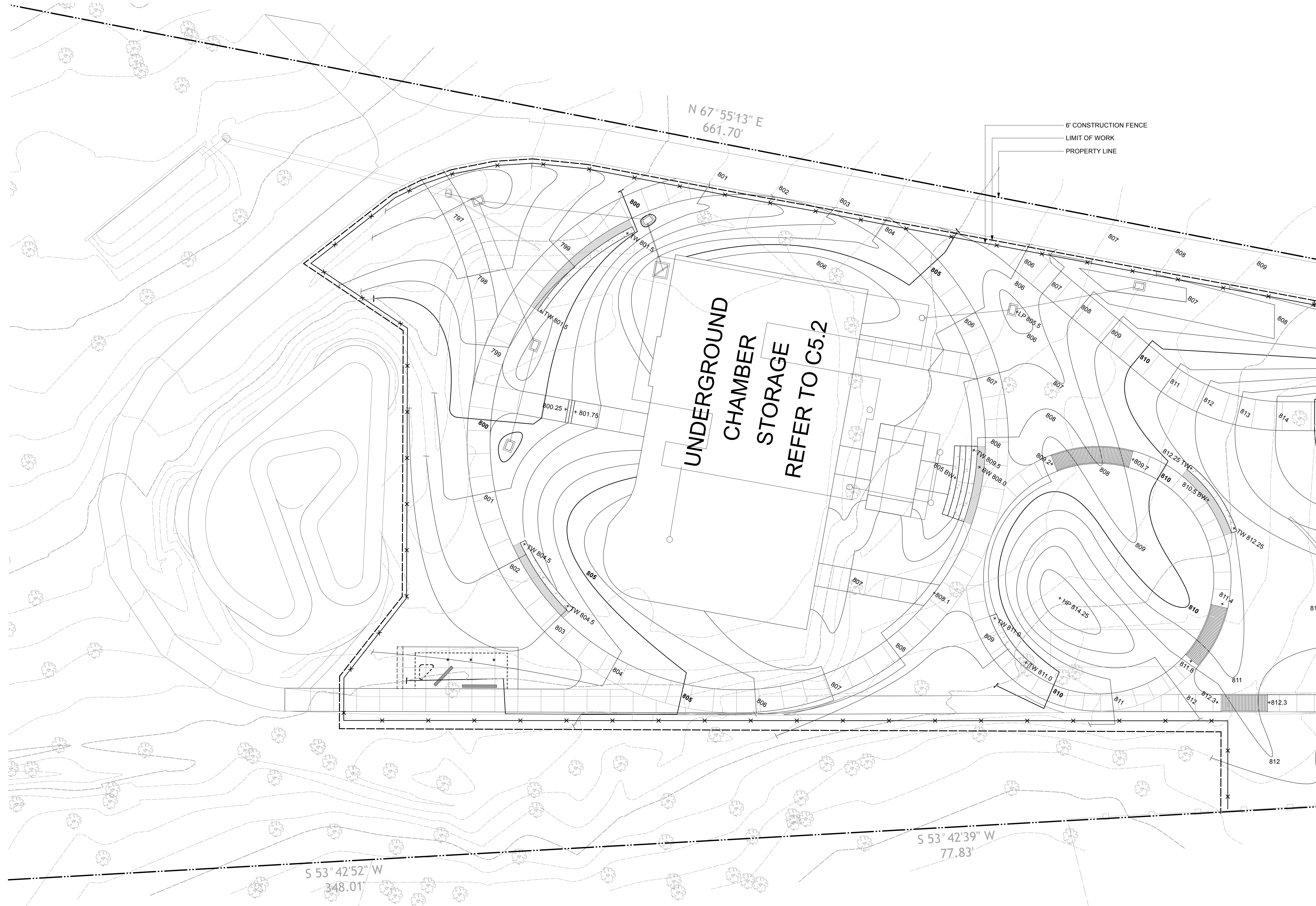


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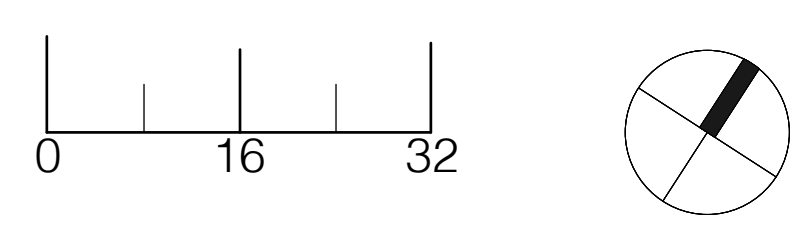
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LEGEND

PROPERTY LINE	---
LIMIT OF WORK	----
6' CONSTRUCTION FENCE	-----x-----
EXISTING CONTOUR
PROPOSED MAJOR CONTOUR	----->
PROPOSED MINOR CONTOUR	----->
BREAK LINE	-----
SWALE CENTERLINE	-----
SPOT ELEVATION	+ 815.46
SLOPE ARROW	----->



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Number	Date	Description
1	6.16.24	50% Progress Set
2	10.01.24	90% CD
3	11.01.24	100% CD

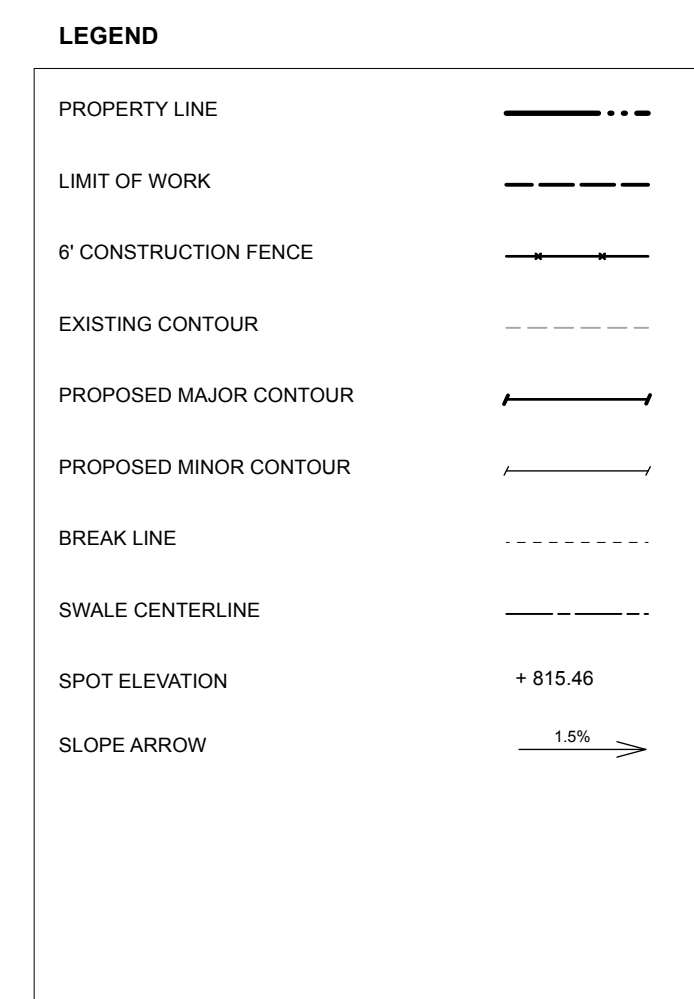
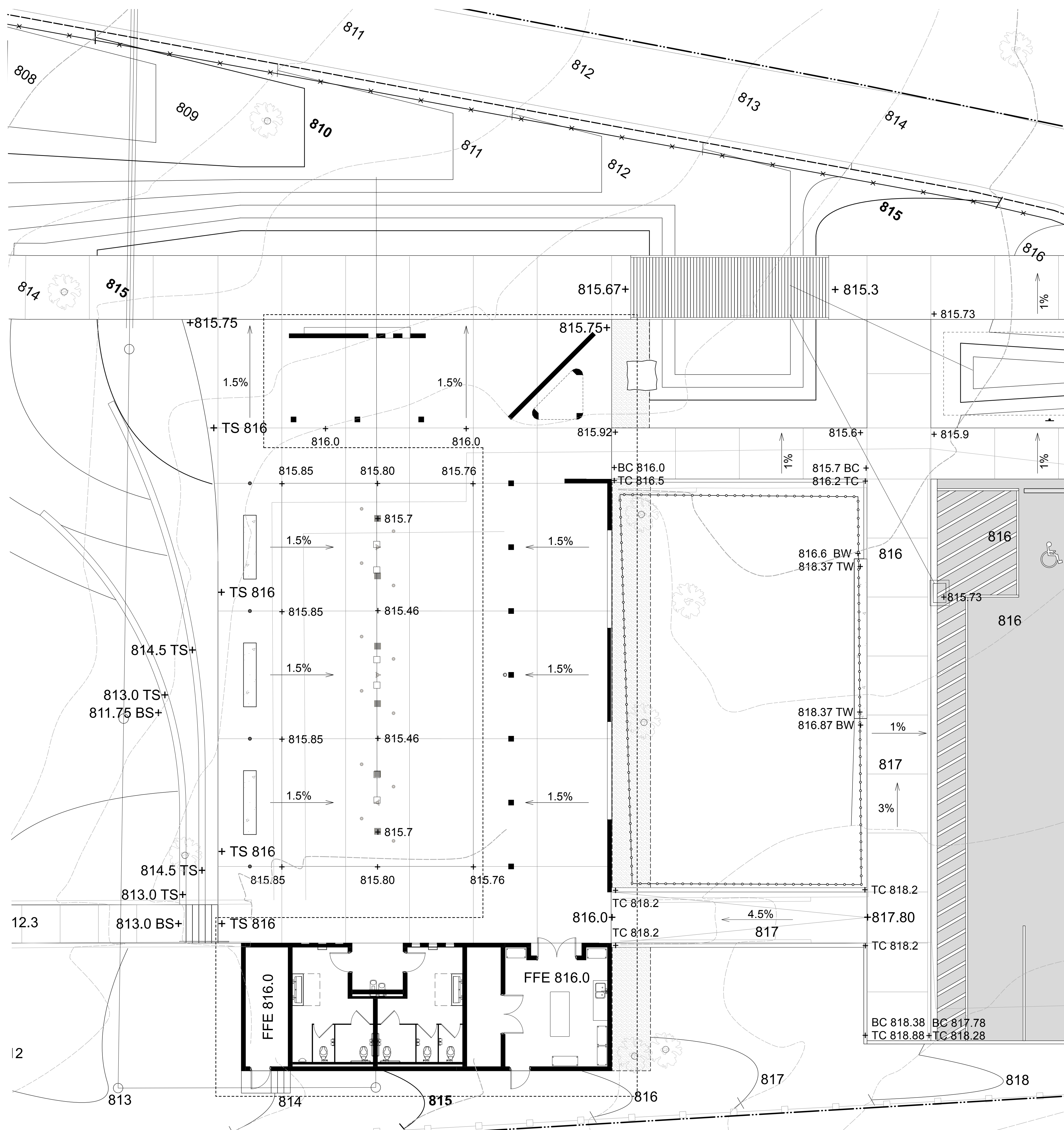
Scale 1/16"=1'-0" Date 8/16/24
Title
Site Grading Plan
Sheet No
L-3.1

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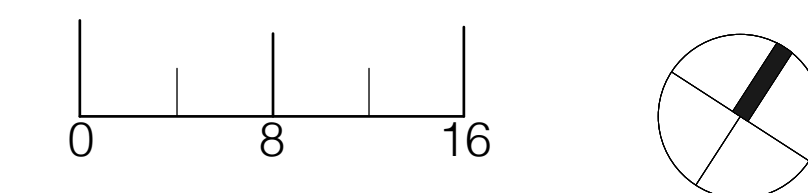


Revisions	Number	Date	Description
1	6.16.24	50% Progress Set	
2	10.01.24	90% CD	
3	11.01.24	100% CD	

Scale 1/8"=1'-0" Date 8/16/24

Site Grading Plan

Sheet No
L-3.2

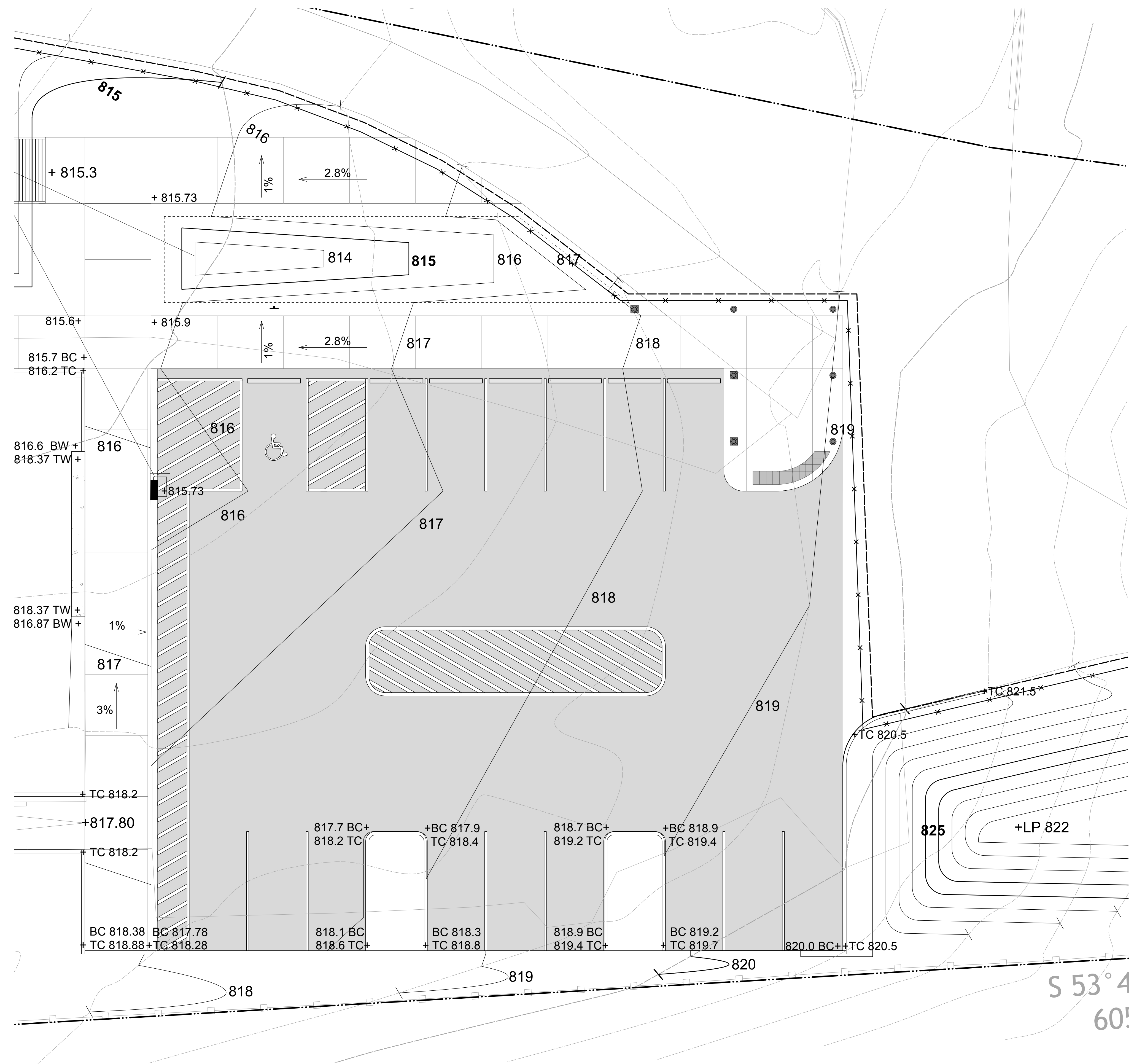


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LEGEND

PROPERTY LINE	---
LIMIT OF WORK	----
1/2" CONSTRUCTION FENCE	----
EXISTING CONTOUR	----
PROPOSED MAJOR CONTOUR	----
PROPOSED MINOR CONTOUR	----
BREAK LINE	----
SWALE CENTERLINE	----
SPOT ELEVATION	+ 815.46
SLOPE ARROW	1.5%

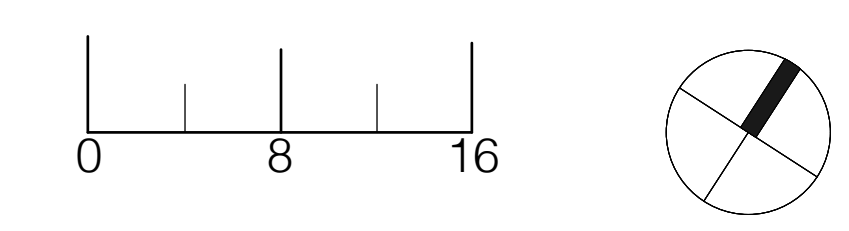
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Revisions	Number	Date	Description
	1	6.16.24	50% Progress Set
	2	10.01.24	90% CD
	3	11.01.24	100% CD

Scale 1/8"=1'-0" Date 8/16/24

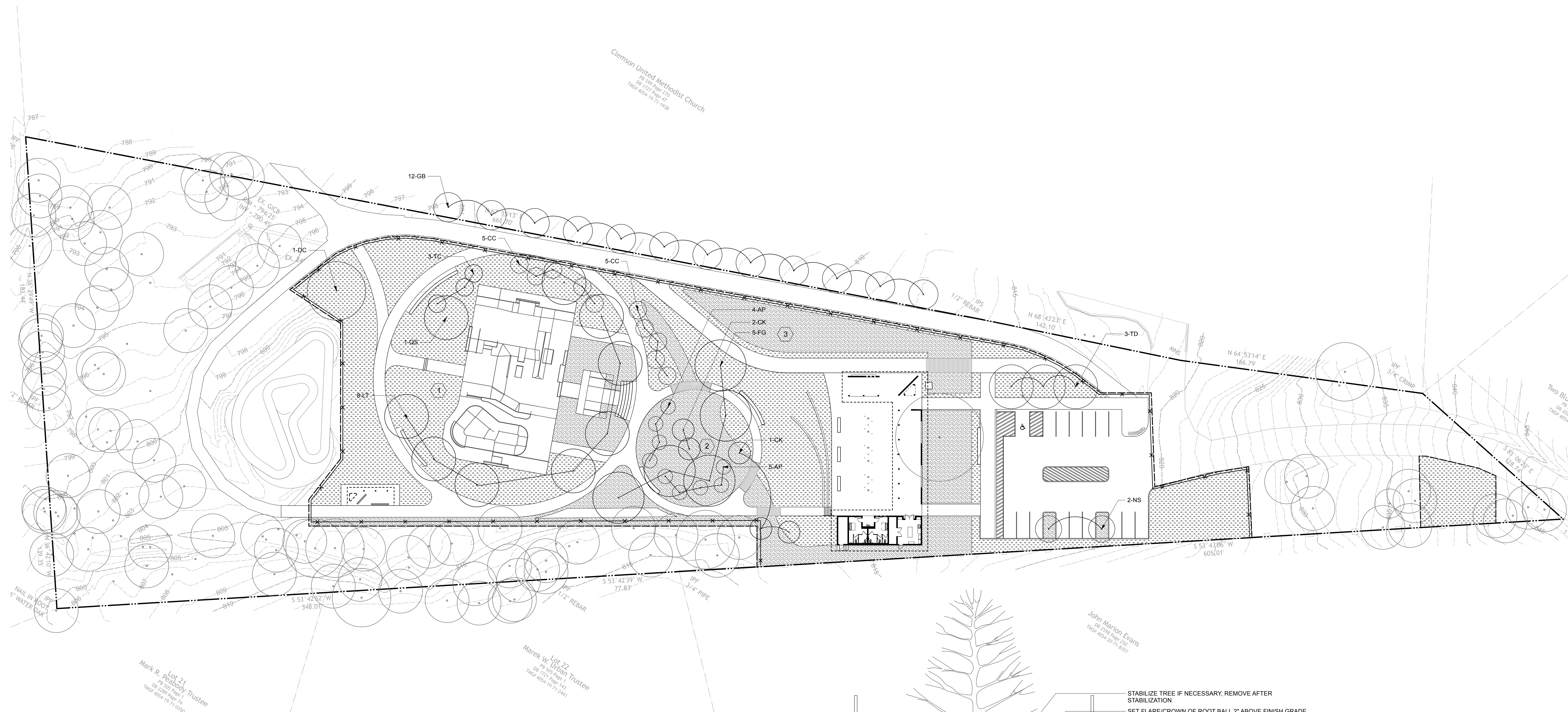
Title
Site Grading Plan

Sheet No
L-3.3

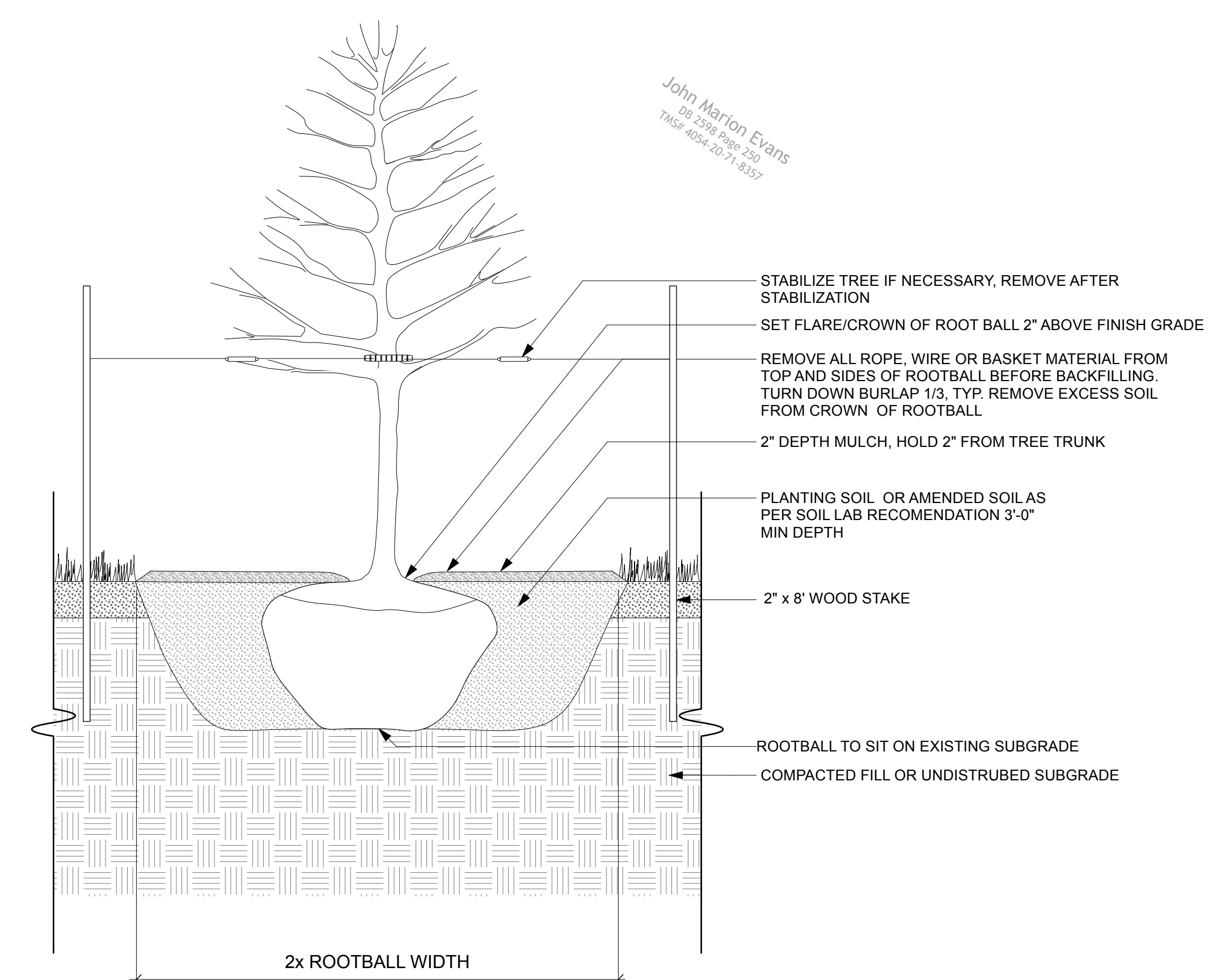


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PLANTING NOTES
 1. The contractor shall supply all plant material in quantities sufficient to complete the planting shown on all drawings.
 2. All plant material shall conform to the guidelines established by "The American Standard for Nursery Stock" published by The American Association of Nurserymen, latest edition.
 3. All plants shall be balled and burlap unless otherwise noted on the plant list.
 4. All plants shall be approved Landscape Designer prior to their installation at the site.
 5. Contractor shall stake all plant locations in the field. Obtain approval of Landscape Designer before starting plant installations.
 6. Proposed planting locations shall be staked in field for review by Landscape Designer.
 7. All areas distributed by construction activities are to be fine graded and seeded.



CLEMSON PARK PLANTING SCHEDULE				
SYMBOL	QTY	COMMON NAME	SIZE	NOTES
TREES				
AP	9	<i>Aesculus pavia</i>	Red Buckeye	5 gal
DC	1	<i>Cedrus deodara</i>	Deodar Cedar	10'-12' ht
CC	8	<i>Cercis canadensis</i>	Redbud	5 gal
CK	3	<i>Cornus kousa</i>	Kousa Dogwood	5 gal Multitrunk
FG	5	<i>Fagus grandifolia</i>	American Beech	10'-12' ht
GB	12	<i>Ginkgo biloba</i>	Ginkgo	8'-10' ht Matching Male
LTW	8	<i>Liriodendron tulipifera</i>	Tulip Poplar	4' ht Whip
NS	2	<i>Nyssa sylvatica</i>	Black Tupelo	8'-10' BB
QS	1	<i>Quercus shumardii</i>	Shumard Oak	8'-10' BB
TD	3	<i>Taxodium distichum</i>	Bald Cypress	8'-10' BB Matched
TC	3	<i>Tsuga canadensis</i>	Eastern Hemlock	5'-6' ht
GROUND PREPARATION				
	36,500 SF	Bermuda Grass	Sod	
	9,520 SF	Mulched Planting Bed	4" Depth	



1 Tree Planting Detail
Scale: 1/2" = 1'-0"

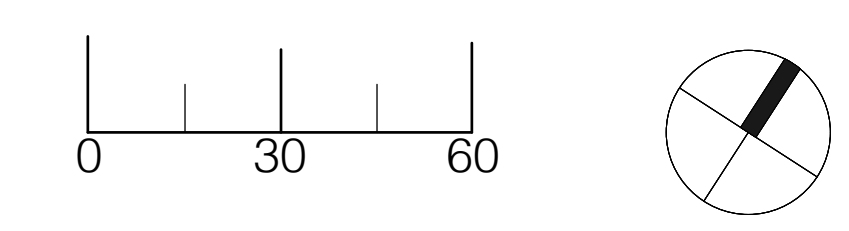
LEGEND

PROPERTY LINE	---
LIMIT OF WORK	- - - -
6" CONSTRUCTION FENCE	— x —
EXISTING TREE	○
PROPOSED TREE	○
PROPOSED PLANTING BED	▨
PROPOSED SEEDED LAWN	▤
SOIL TEST PLOT	①

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Revisions	Number	Date	Description
	1	6.16.24	50% Progress Set
	2	10.01.24	90% CD
	3	11.01.24	100% CD

Scale 1"=30'-0" Date 8/16/24
 Title
Tree Planting Plan / Detail
 Sheet No
L-4.0

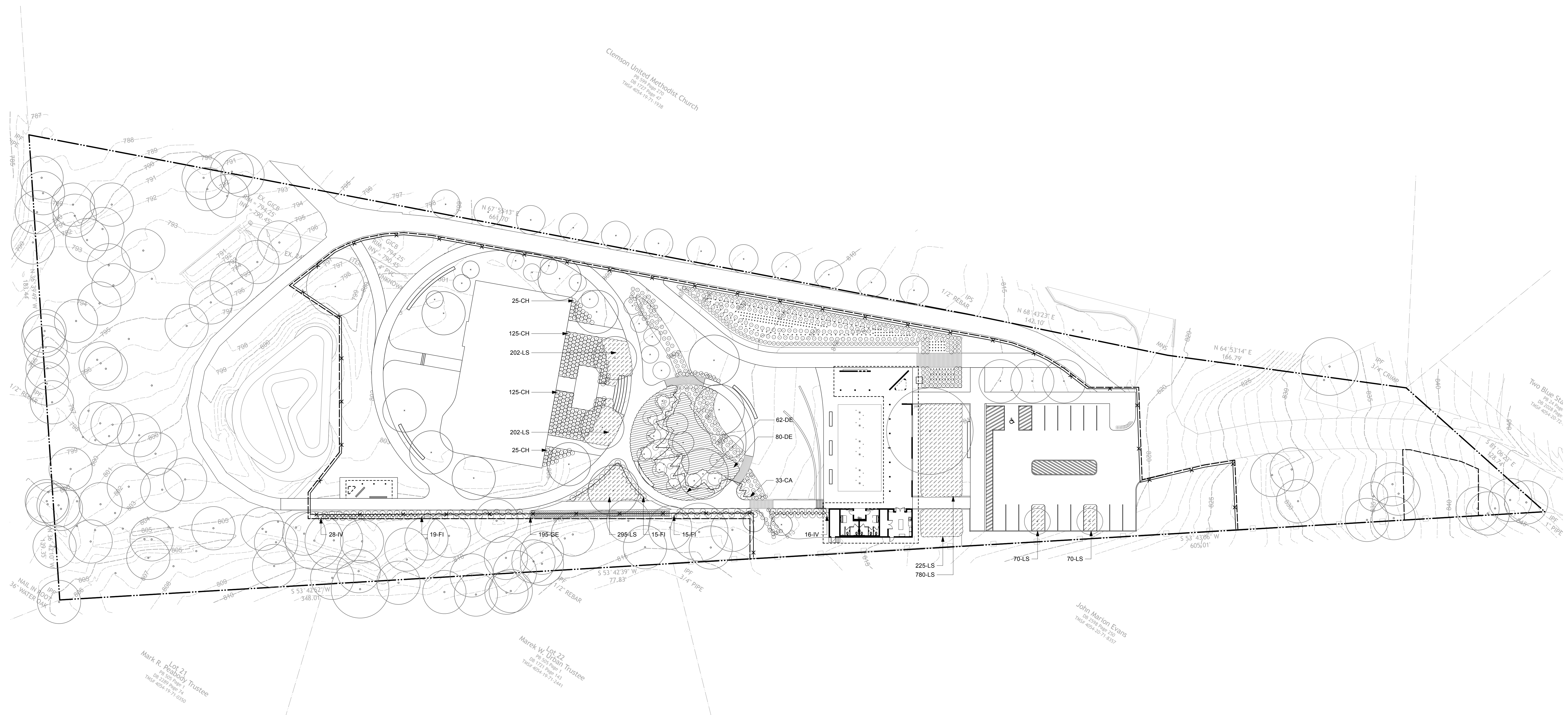


CLEMSON PARK

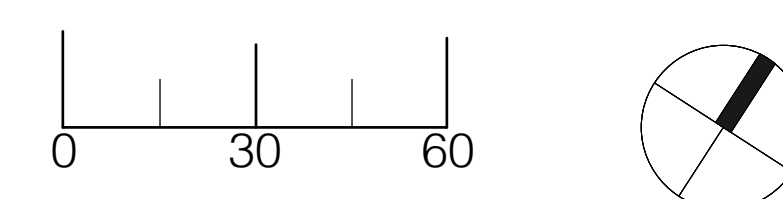
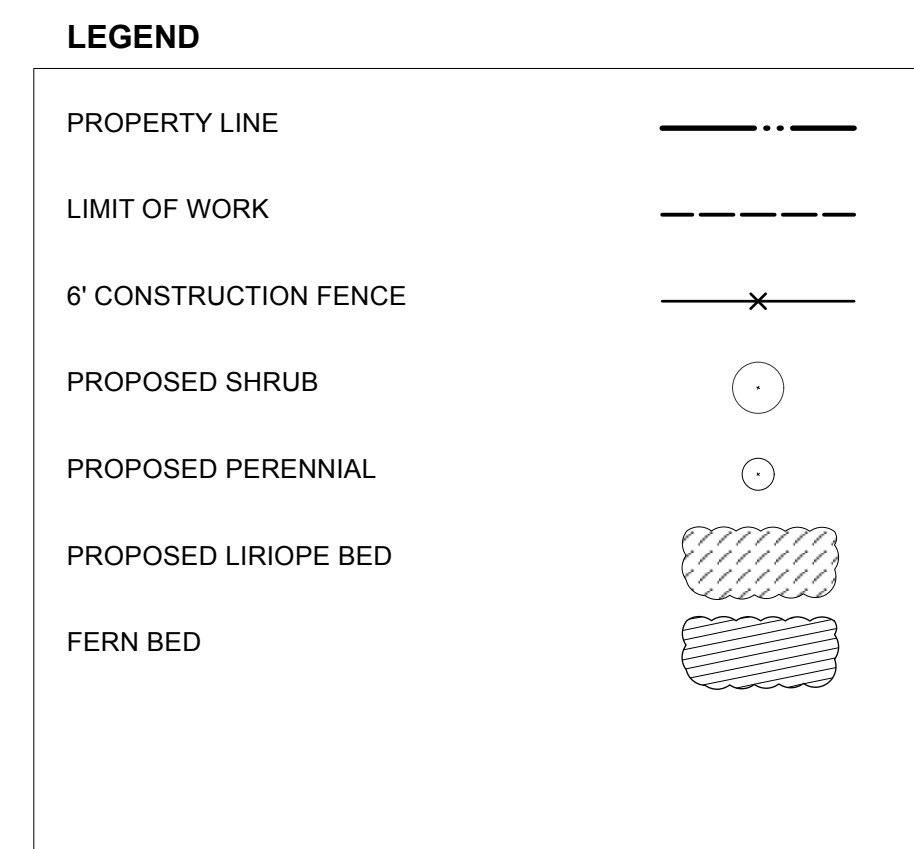
CLEMSON, SC

- GENERAL NOTES**
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 - Contractor shall obtain permits for the work as required and comply with all laws, ordinances, rules and regulations of the local jurisdiction, the state, and all other authorities having jurisdiction.
 - Contractor shall leave site clean and orderly during construction process. Remove from site all excess materials, soil, debris and equipment. Store materials only in an approved location.

- PLANTING NOTES**
- The contractor shall supply all plant material in quantities sufficient to complete the planting shown on all drawings.
 - All plant material shall conform to the guidelines established by "The American Standard for Nursery Stock" published by The American Association of Nurserymen, latest edition.
 - All plants shall be balled and burlap unless otherwise noted on the plant list.
 - All plants shall be approved Landscape Designer prior to their installation at the site.
 - Contractor shall stake all plant locations in the field. Obtain approval of Landscape Designer before starting plant installations.
 - Proposed planting locations shall be staked in field for review by Landscape Designer.
 - All areas distributed by construction activities are to be fine graded and seeded.



SHRUB / PERENNIAL PLANTING SCHEDULE					
SYMBOL	QTY	BOTANICAL NAME	COMMON NAME	SIZE	NOTES
SHRUBS					
CF	33	<i>Calycanthus floridus</i>	Carolina Allspice	3 gal.	
CH	300	<i>Cephalotaxus x intermedia</i>	Creeping Yew	3 gal.	
FI	49	<i>Fothergilla x intermedia</i>	Fothergilla	3 gal.	
IV	44	<i>Itea virginica</i>	Virginia Sweetspire	3 gal.	
PERENNIALS					
CL	336	<i>Chasmanthium latifolium</i>	Sea Oats	1 gal.	Allowance, Locate in field
DE	142	<i>Dryopteris erythrosora</i>	Autumn Fern	1 gal.	4' O.C. Spacing
OE	195	<i>Galanthus elwesii</i>	Snowdrop	Bulb	18" O.C.
IV	152	<i>Iris versicolor</i>	Blue Flag Iris	1 gal.	Allowance, Locate in field
Jsp	232	<i>Juncus sp.</i>	Wetland Rushes	1 gal.	Allowance, Locate in field
LS	1844	<i>Liriope spicata</i>	Liriope	4" pot	18" O.C.
RH	81	<i>Rudbeckia hirta</i>	Black-Eye-Susan	1 gal.	Allowance, Locate in field



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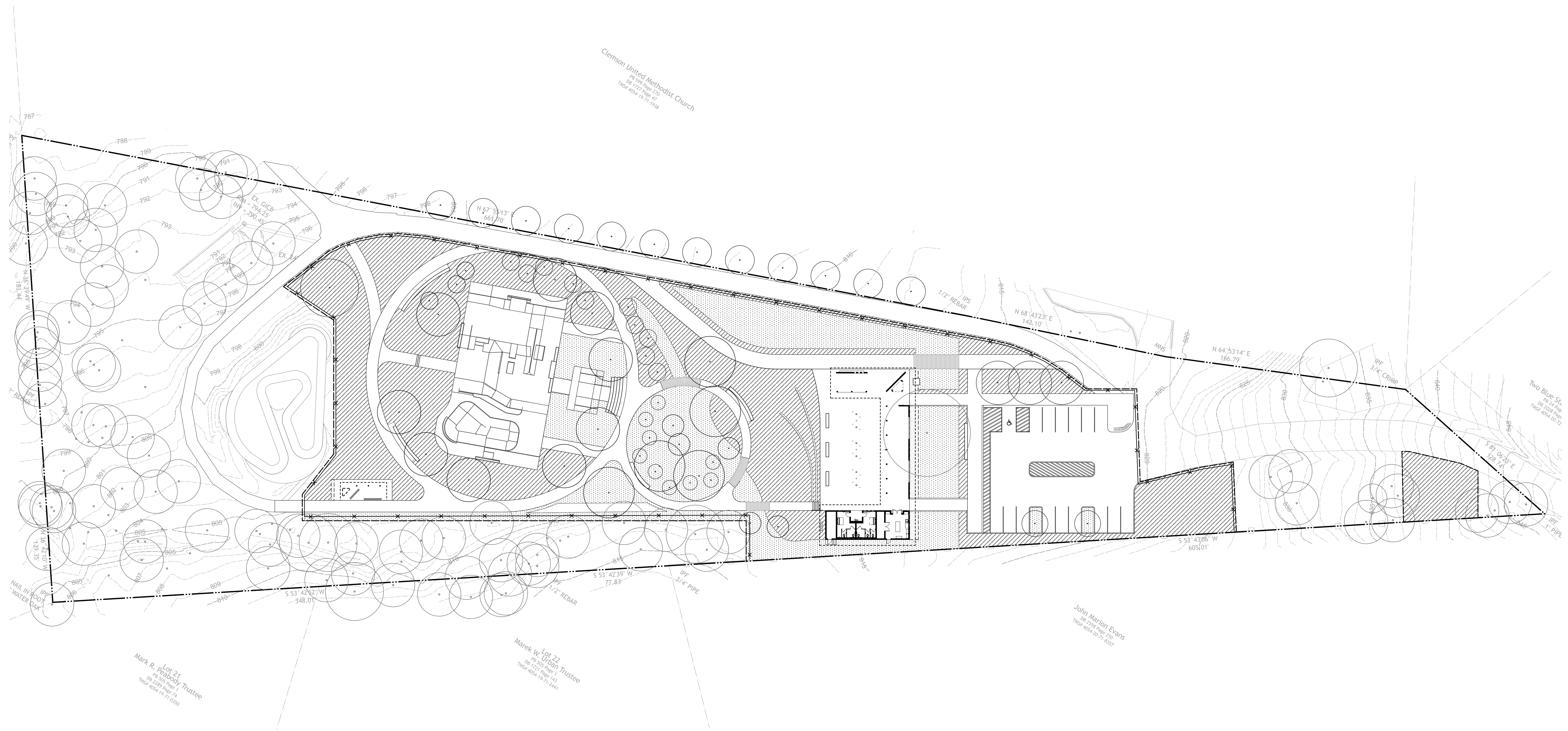
Revisions	Number	Date	Description
	1	6.16.24	50% Progress Set
	2	10.01.24	90% CD
	3	11.01.24	100% CD

Scale 1"=30'-0" Date 8/16/24
 Title
Shrub & Perennial Planting Plan

Sheet No
L-4.1

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IRRIGATION NOTES
 1. Contractor shall become familiar with existing irrigation system, well capacity and project irrigation needs for this contract.
 2. Contractor shall design and provide a complete irrigation system.
 3. Contractor shall submit irrigation shop drawings with product data for review and approval by Landscape Designer prior to installation.
 4. Contractor shall conduct meeting with Owner and Owner's Representative to review system operations and settings. Contractor shall also provide maintenance manual with all product data and an "As Built" drawing.



LEGEND

PROPERTY LINE	---
LIMIT OF WORK	----
6" CONSTRUCTION FENCE	-X-
EXISTING TREE	○
PROPOSED TREE	○
SPRAY IRRIGATION ZONE	▨
DRIP IRRIGATION ZONE	▤
VALVE BOXES	□□

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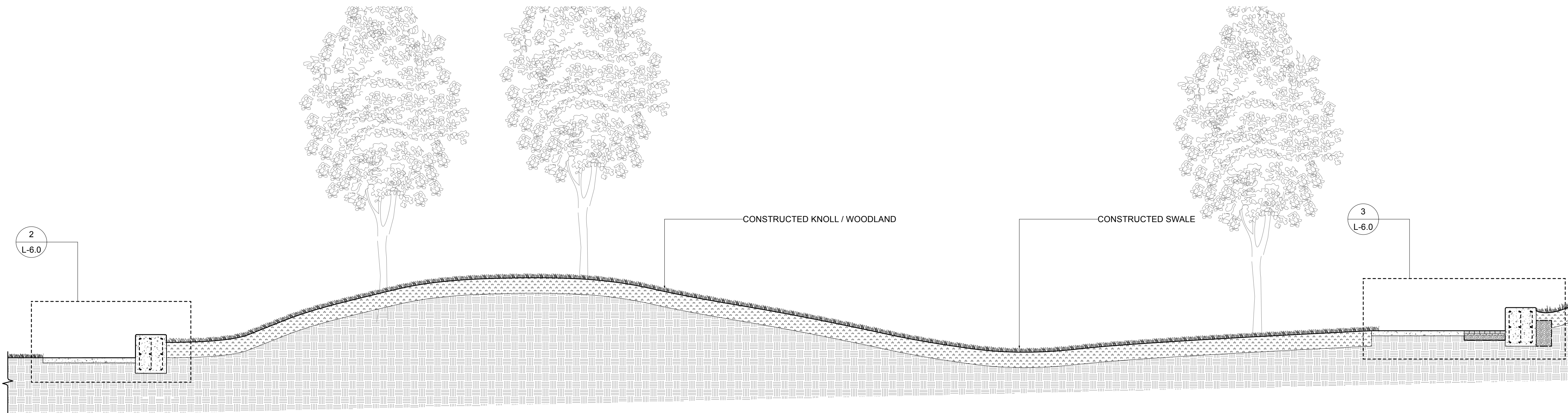
Number	Date	Description
1	6.16.24	50% Progress Set
2	10.01.24	90% CD
3	11.01.24	100% CD

Scale 1"=30'-0" Date 8/16/24
 Title
Site Irrigation Plan

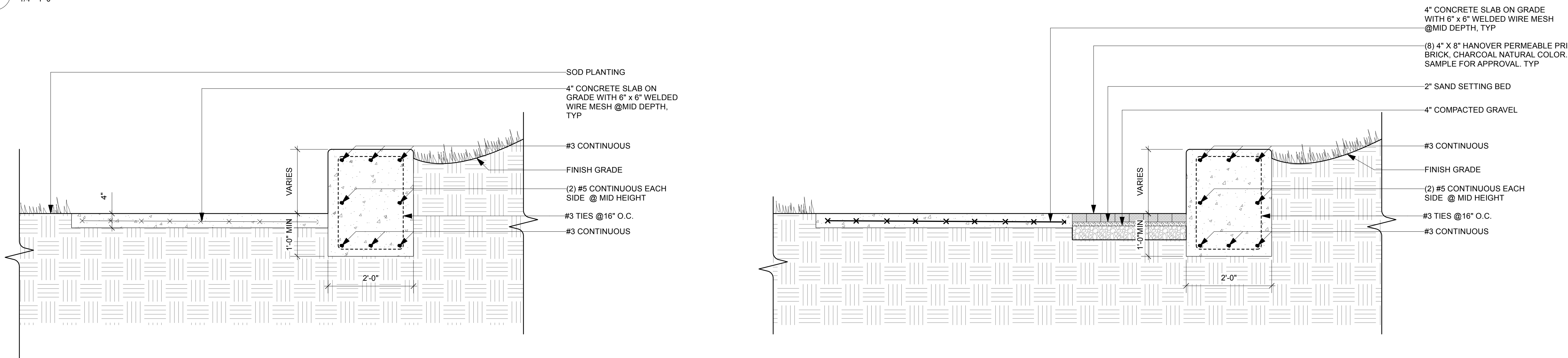
Sheet No
L-5.0

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LAYOUT NOTES
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 3. Stake or otherwise flag all design elements and features in the field. Obtain Landscape Designer's approval prior to commencing construction.
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 5. All angles are assumed to be 90 degrees unless otherwise stated.
 6. See planting plans for location of trees and shrubs, planting beds and extent of sodding and seeding.
 7. See architectural drawings for all building dimensions.
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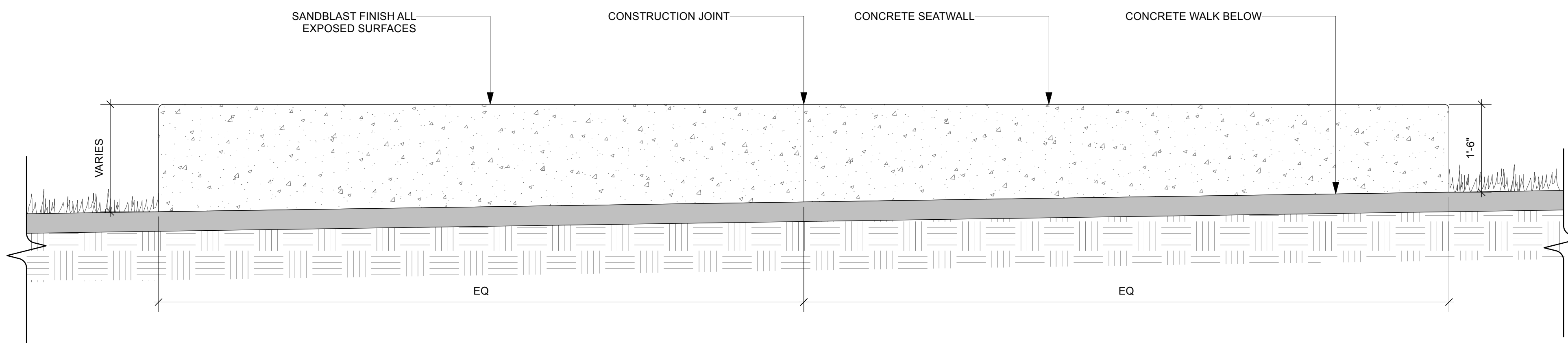


1 Site Section at Woodland Knoll / Swale
1/4"=1'-0"

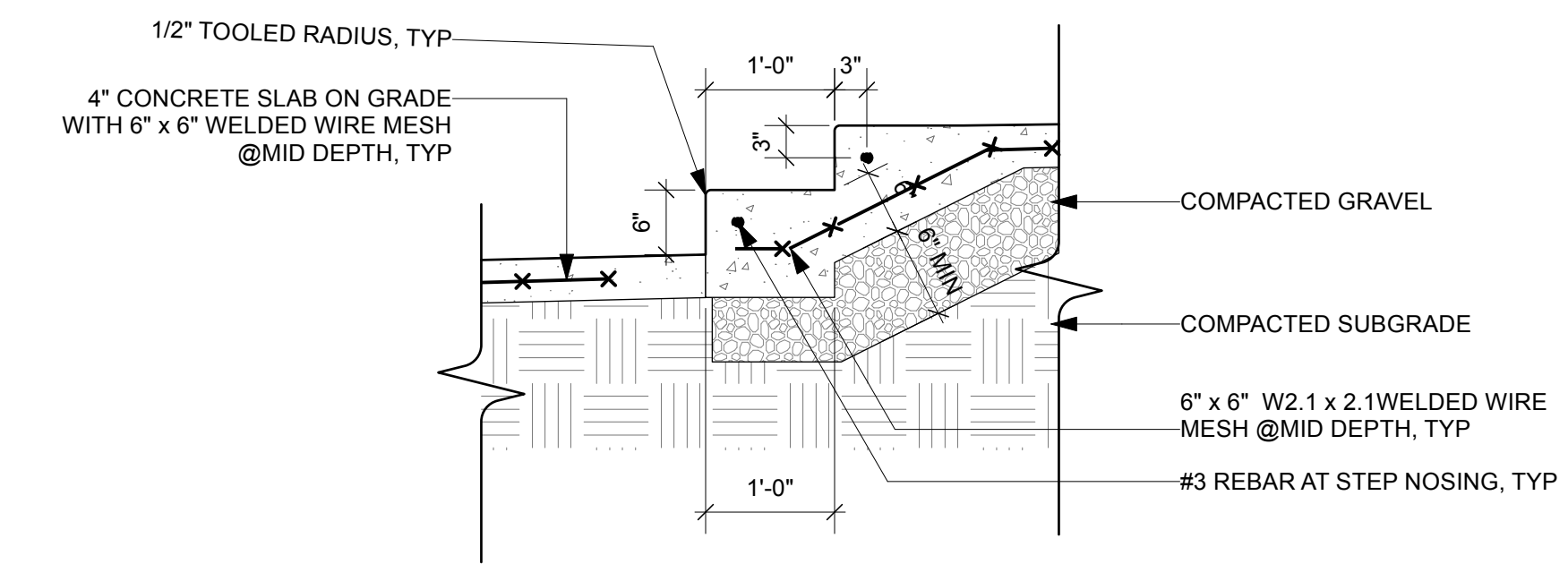


2 Concrete Walk and Seatwall at Woodland Knoll
3/4"=1'-0"

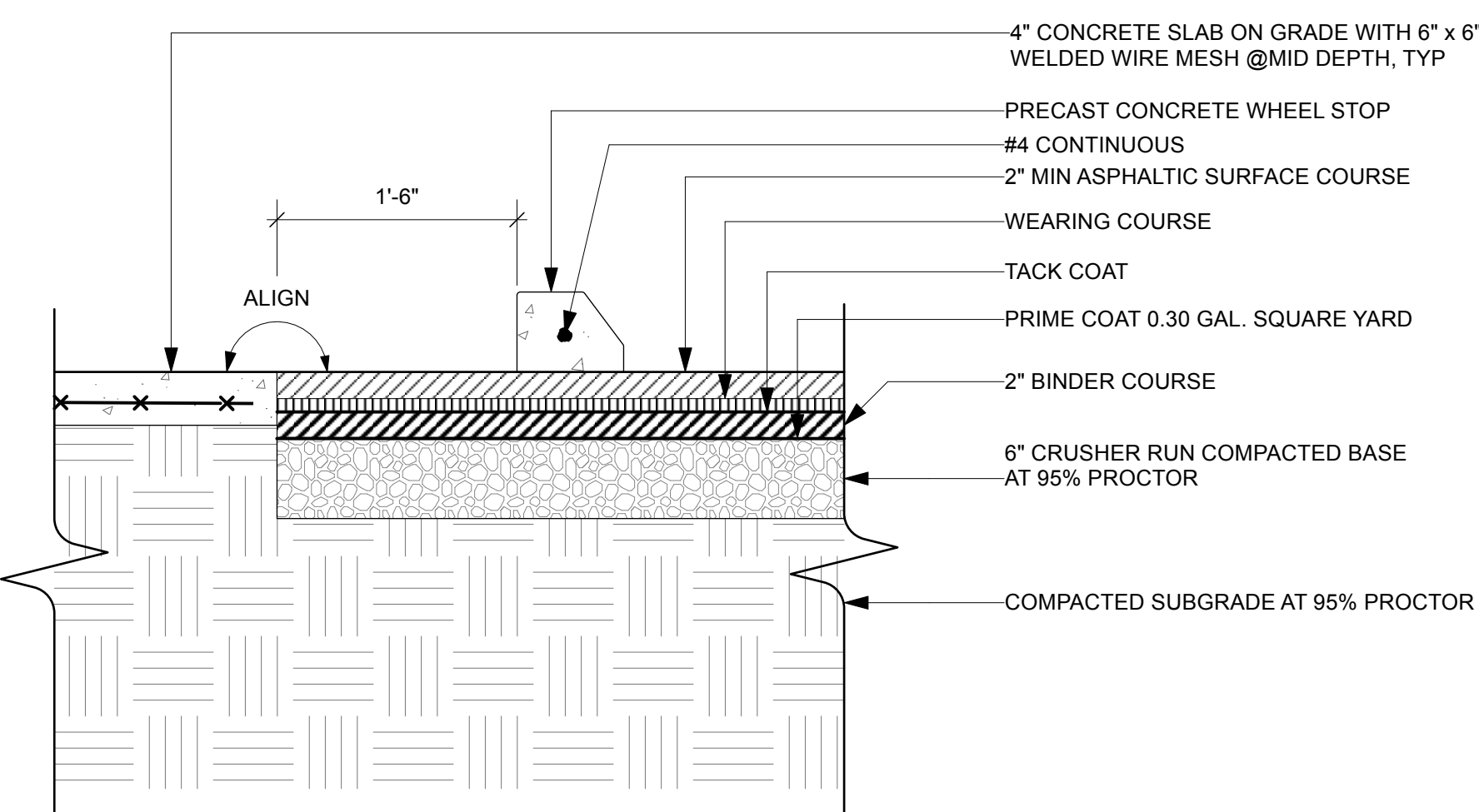
3 Concrete Walk and Seatwall at Brick Landing
3/4"=1'-0"



4 Concrete Walk and Seatwall at Woodland Knoll
3/4"=1'-0"



5 Concrete Steps at Skate Park Walk
3/4"=1'-0"



6 Concrete Walk at Asphalt / Wheel Stop
3/4"=1'-0"

NOTE: CONTRACTOR TO PROVIDE 3' MOCK-UP OF CAST IN PLACE CONCRETE BENCH AND CONCRETE UNIT PAVER AT 1:1. TYPICAL BENCH SECTION SHALL INCLUDE SAND BLAST FINISH FOR APPROVAL PRIOR TO FINAL CONSTRUCTION.

NOTE: CONTRACTOR TO PROVIDE 4' X 4' MOCK-UP OF CONCRETE WALK. ALL CONCRETE WALKS AND PATHS SHALL HAVE LITE BROOM SWEEP FINISH PERPENDICULAR TO WALKING DIRECTION. BROOM FINISH SHALL EXTEND WIDTH OF ALL WALKS AND SURFACES. NO TOOLING OF EDGES OR PERIMETER.

NOTE: ALL CUT JOINTS ON CONCRETE WALKS AND SURFACES SHALL BE MARKED IN THE FIELD WITH CHALK LINE. DESIGN TEAM TO APPROVE ALL CUT JOINTS PRIOR TO CUTTING.

Revisions	Number	Date	Description
	1	6.16.24	50% Progress Set
	2	10.01.24	90% CD
	3	11.01.24	100% CD

Scale As Noted Date 8/16/24

Title

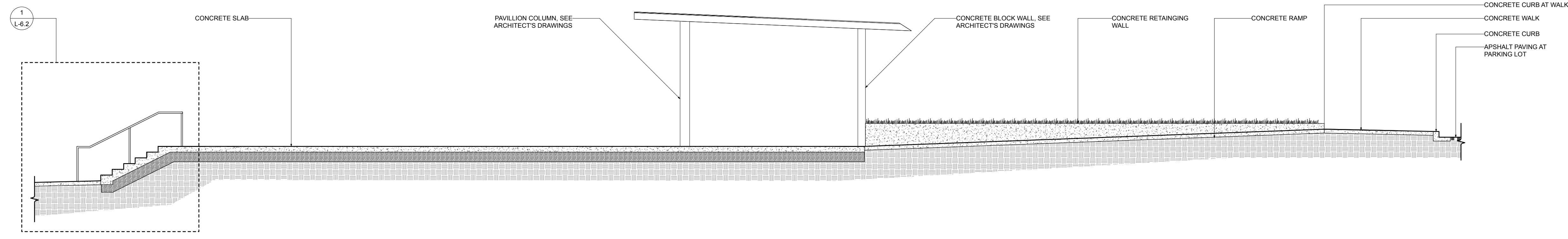
Site Sections

Sheet No

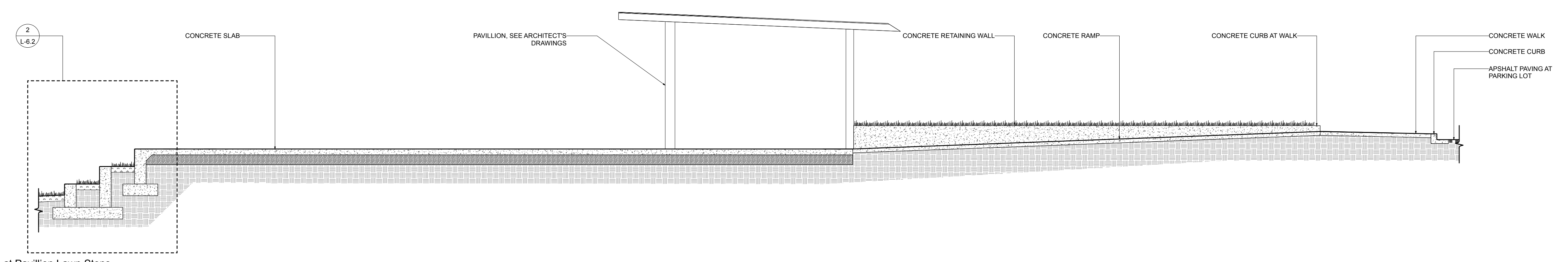
L-6.0

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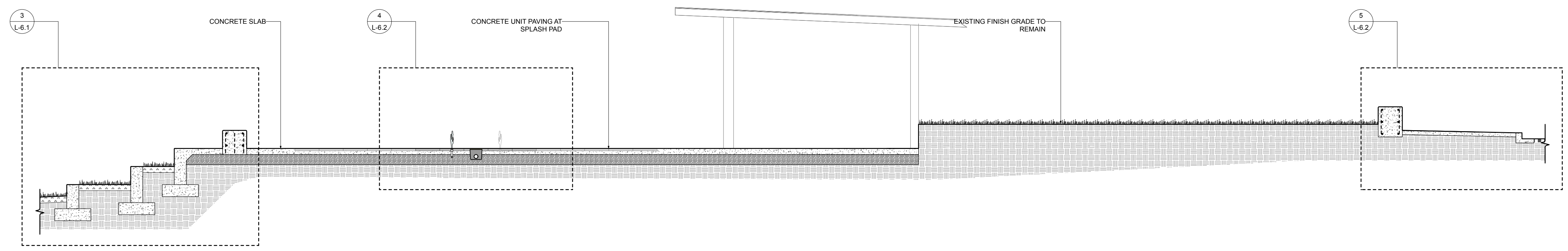
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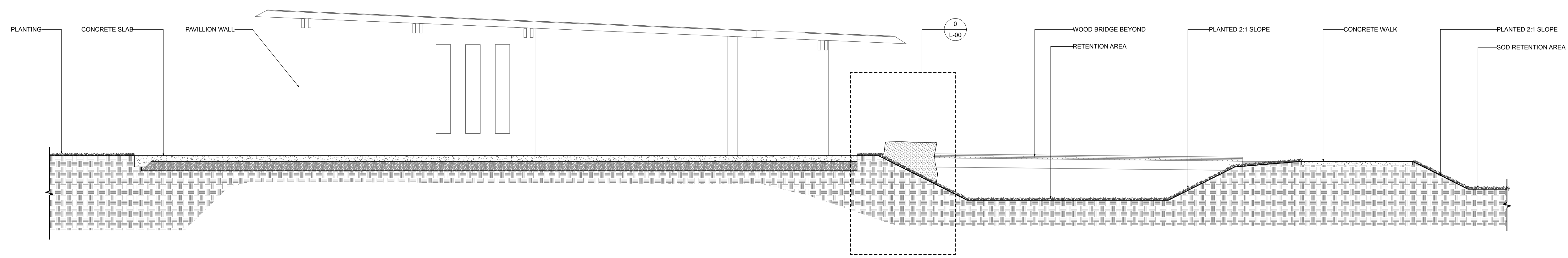
1 Site Section at Pavillion Steps
3/16"=1'-0"



2 Site Section at Pavillion Lawn Steps
13/16"=1'-0"



3 Site Section at Pavillion Bench / Splash Pad
13/16"=1'-0"



4 Site Section at Pavillion / Swale
3/16"=1'-0"

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Revisions		
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1	6.16.24	50% Progress Set
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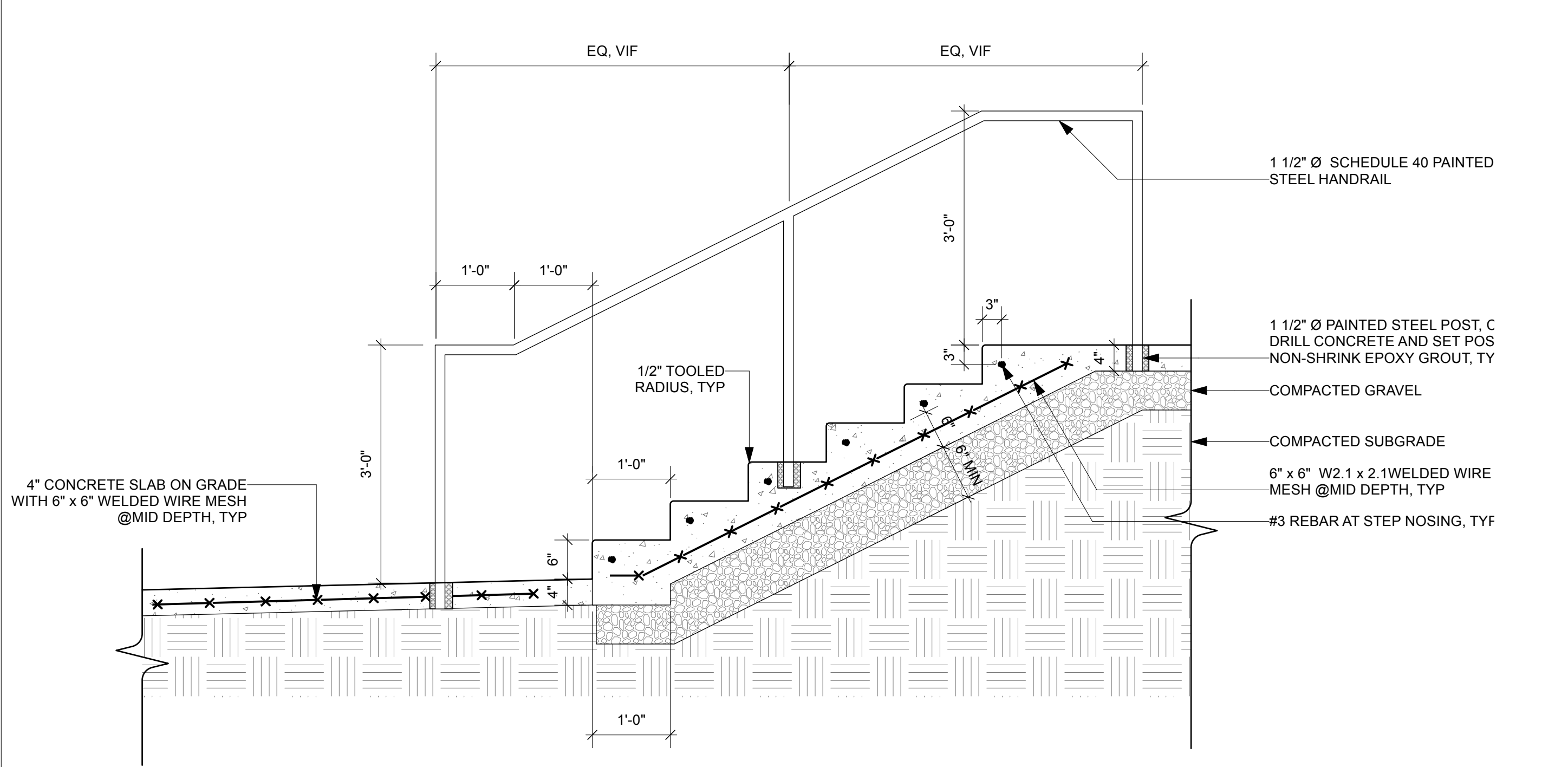
Scale As Noted Date 8/16/24

Title
Site Sections

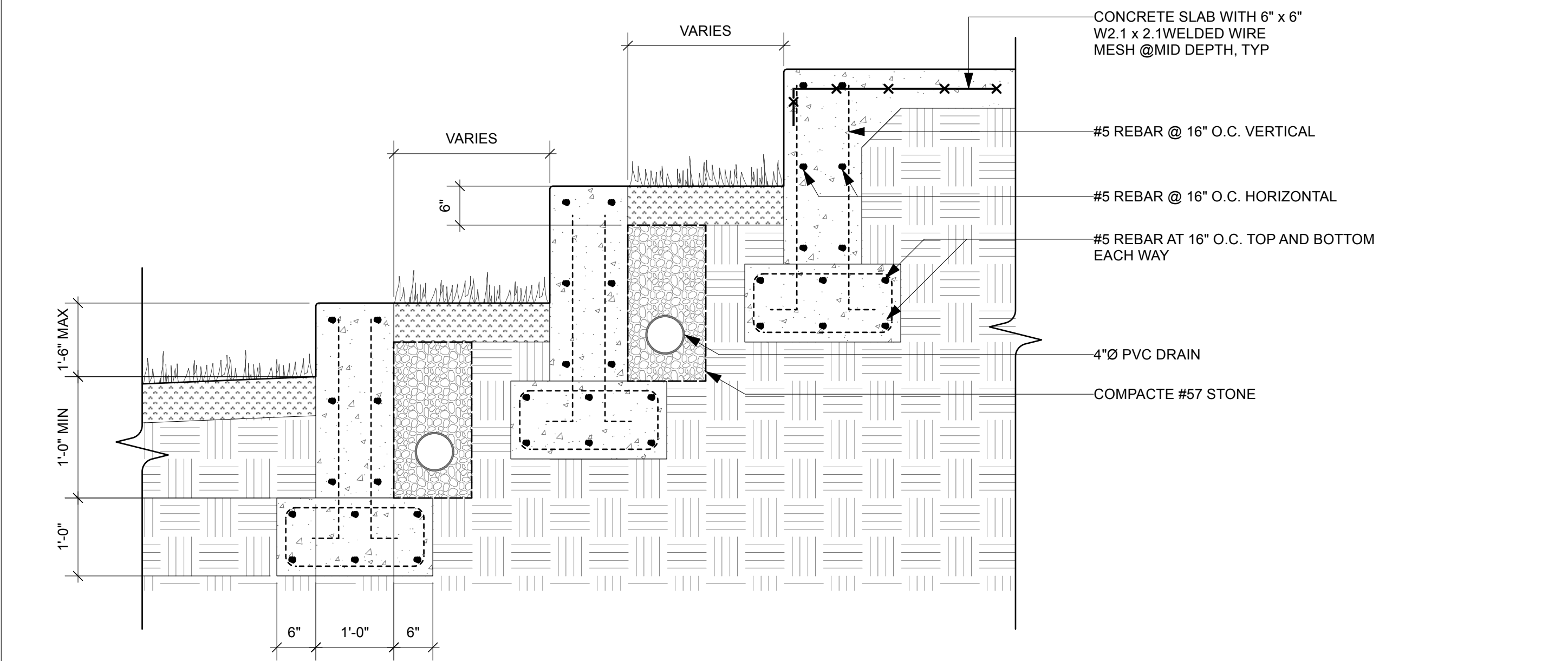
Sheet No
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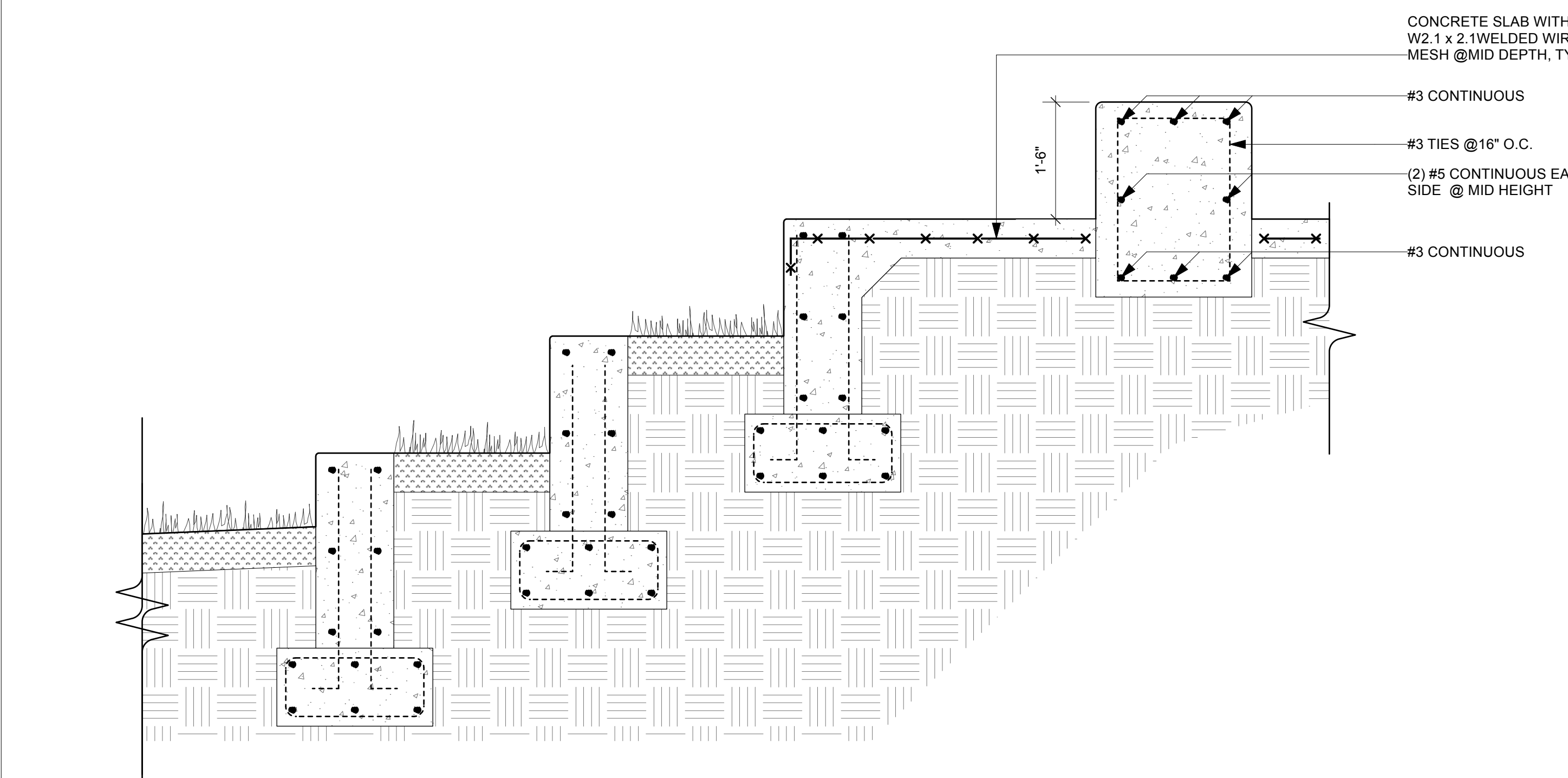
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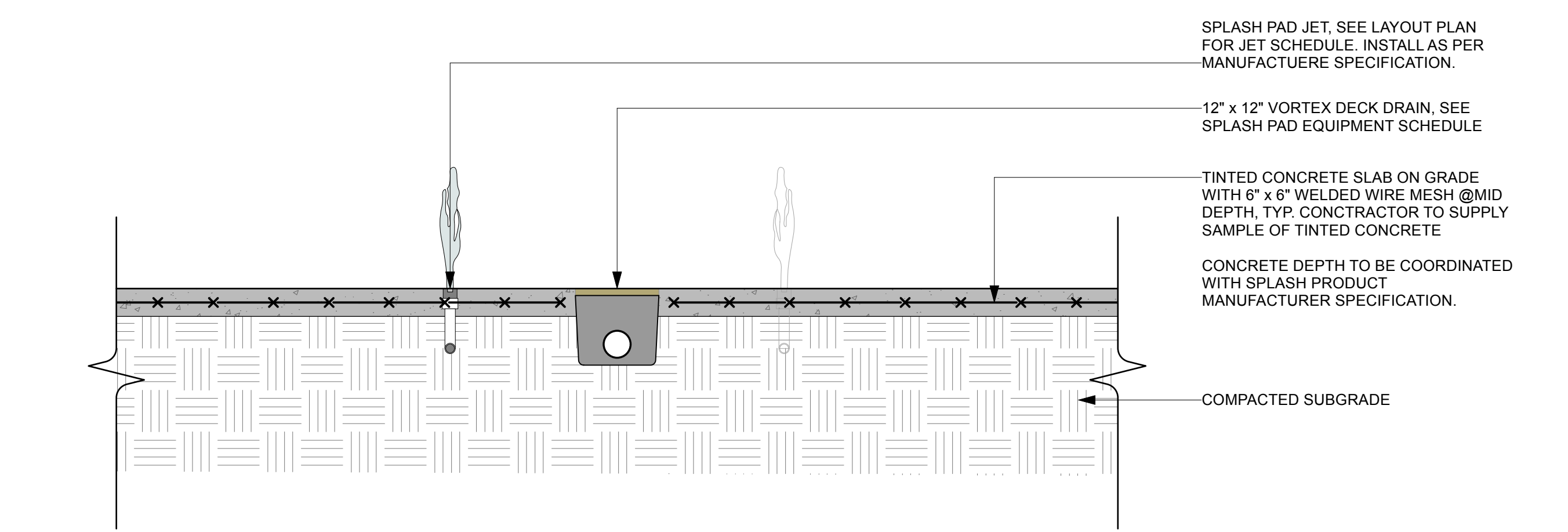
1 Concrete Steps at Pavilion
3/4"=1'-0"



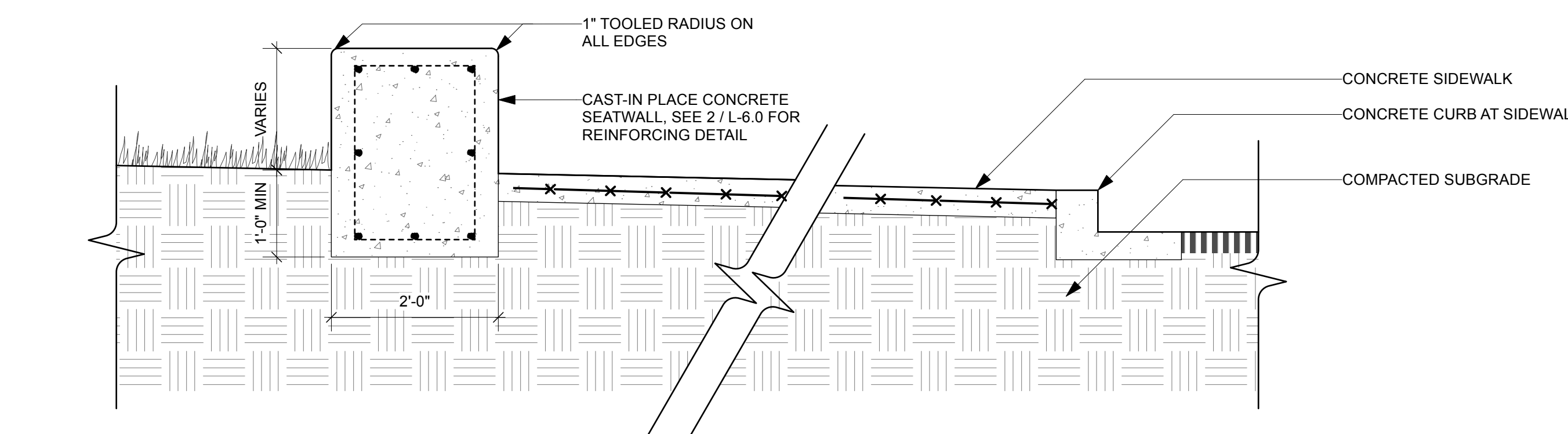
2 Concrete Lawn Steps at Pavilion
3/4"=1'-0"



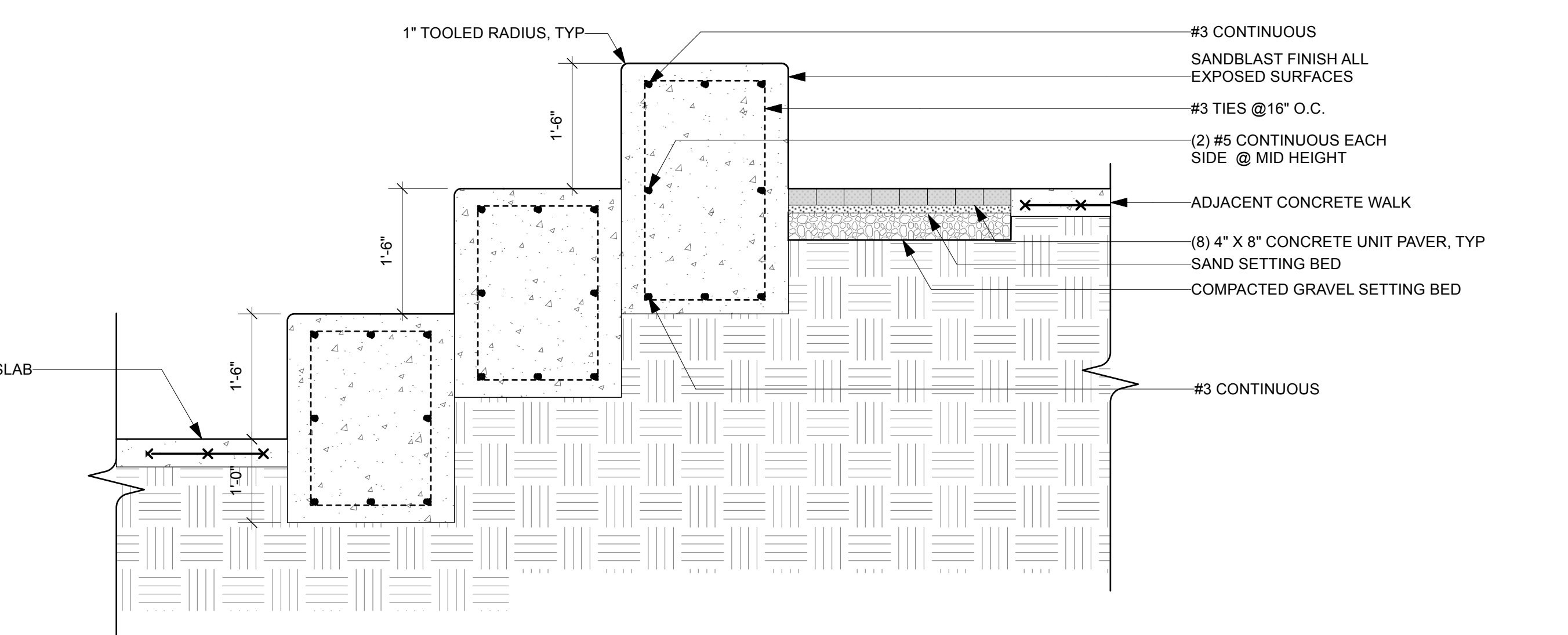
3 Concrete Lawn Steps at Splash Pad Bench
3/4"=1'-0"



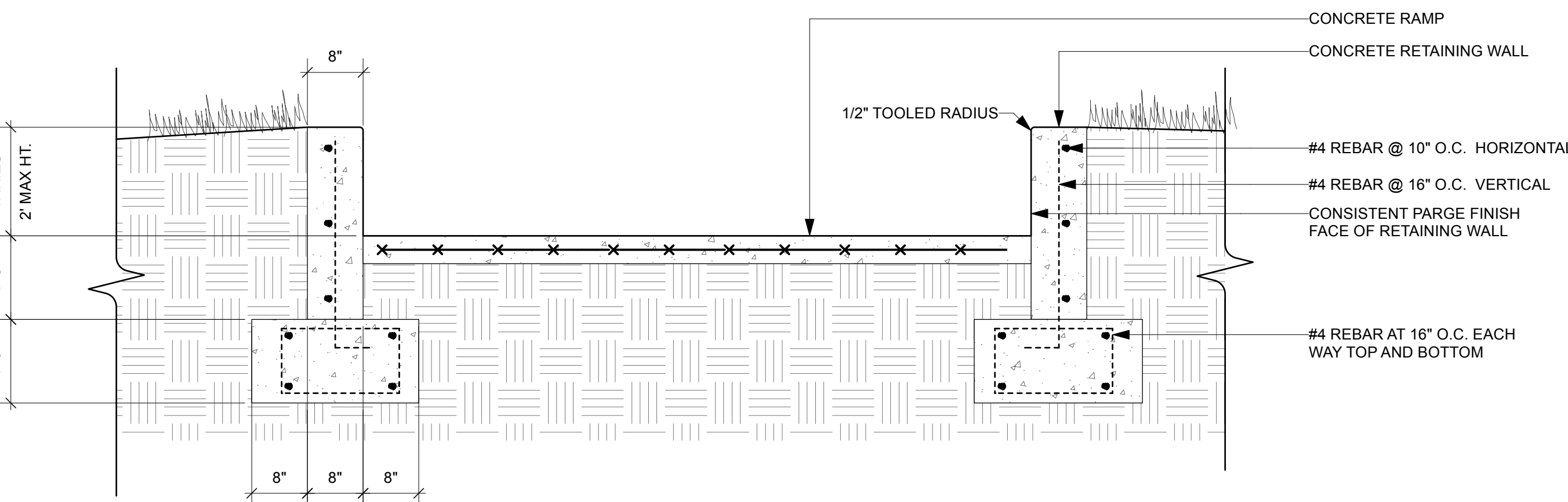
4 Concrete Unit Paving at Splash Pad
3/4"=1'-0"



5 Concrete Seatwall at Front Entry
3/4"=1'-0"



6 Concrete Stadium Seating at Half Pipe
3/4"=1'-0"



7 Retaining Wall at Entry Ramp
3/4"=1'-0"

Number	Date	Description
1	6.16.24	50% Progress Set
2	10.01.24	90% CD
3	11.01.24	100% CD

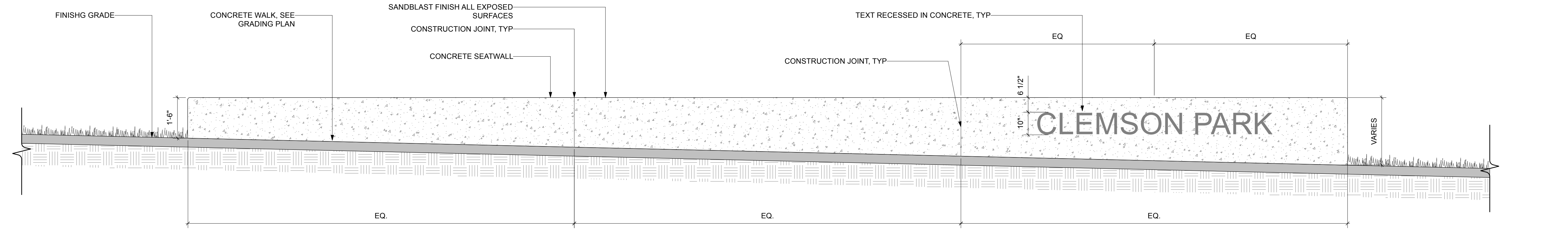
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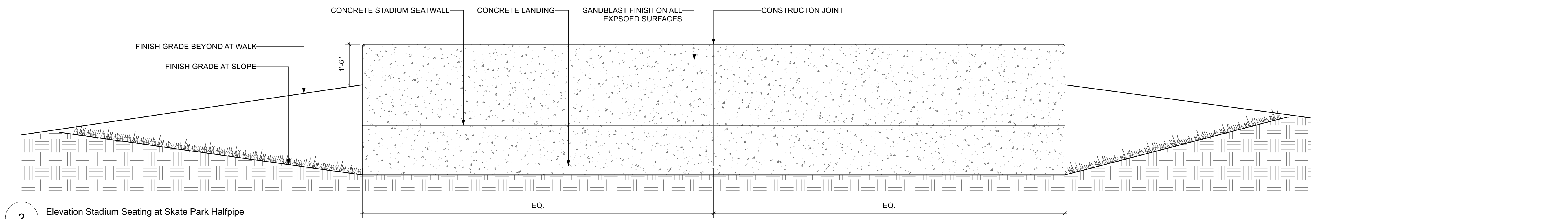
Concrete Detail Sections

Sheet No

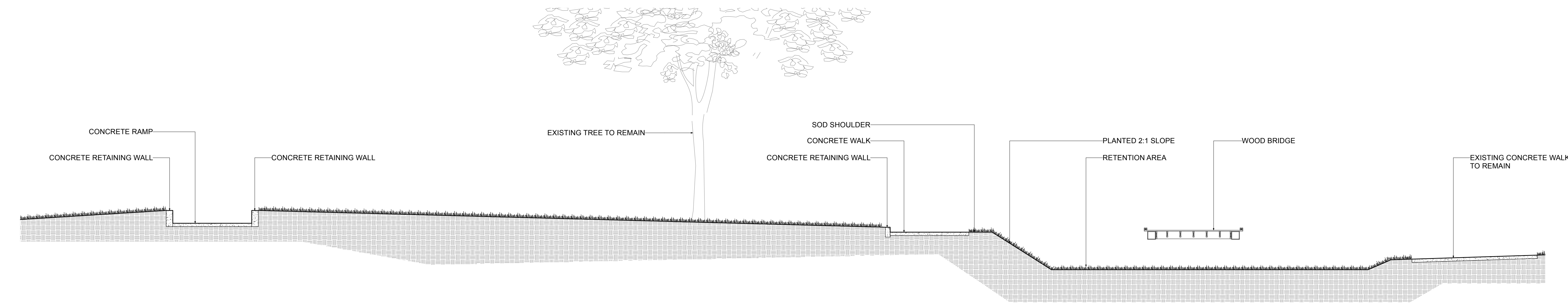
L-6.2



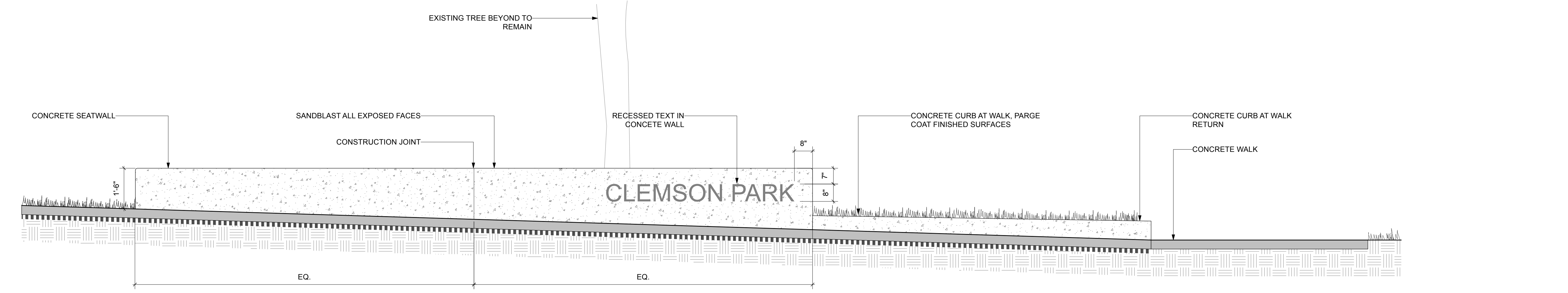
1 Elevation Concrete Seatwall at Lower Skate Park Entry
1/2"=1'-0"



2 Elevation Stadium Seating at Skate Park Halfpipe
1/2"=1'-0"



3 Section at Pavillion Entry Access
3/16"=1'-0"



4 Seatwall Elevation at Main Park Entry
3/12"=1'-0"

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Number	Date	Description
1	6.16.24	50% Progress Set
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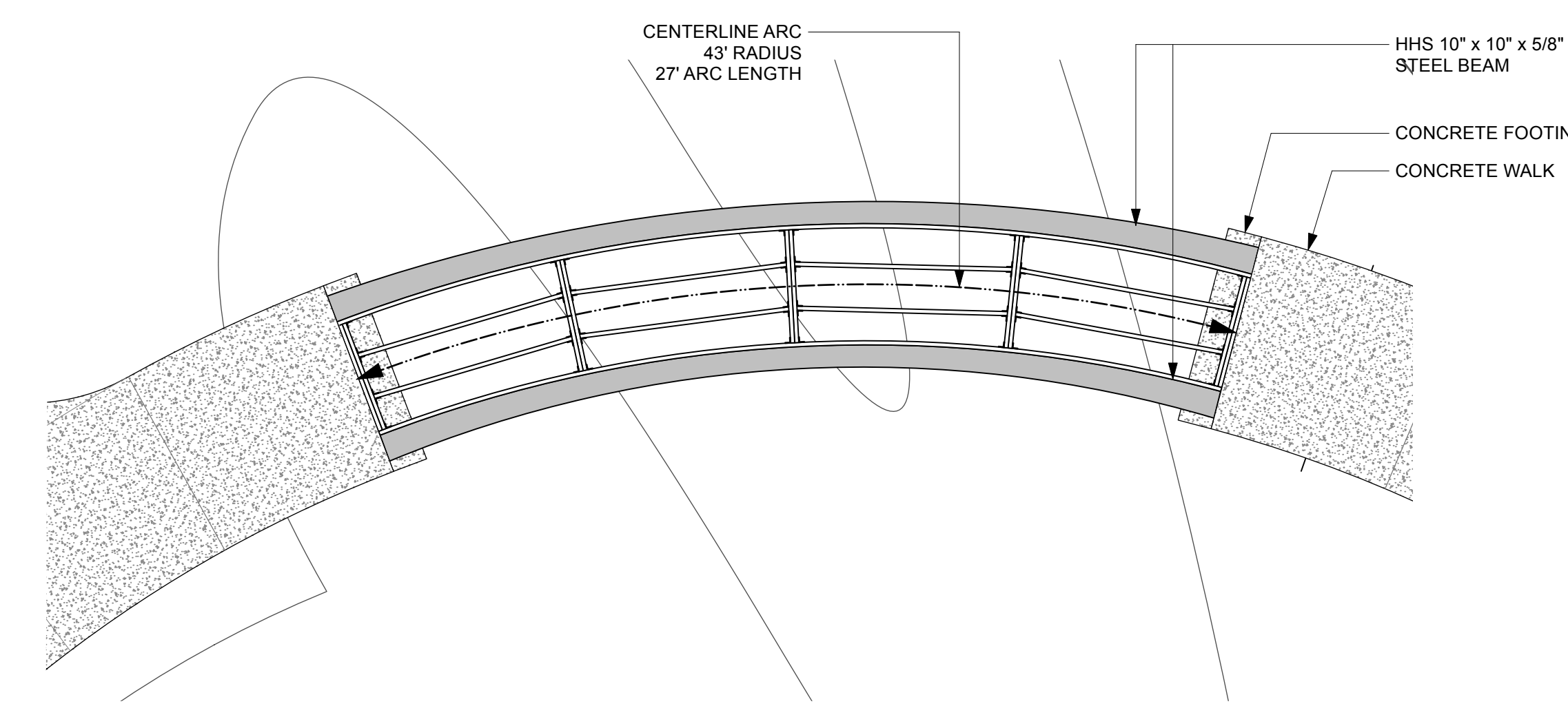
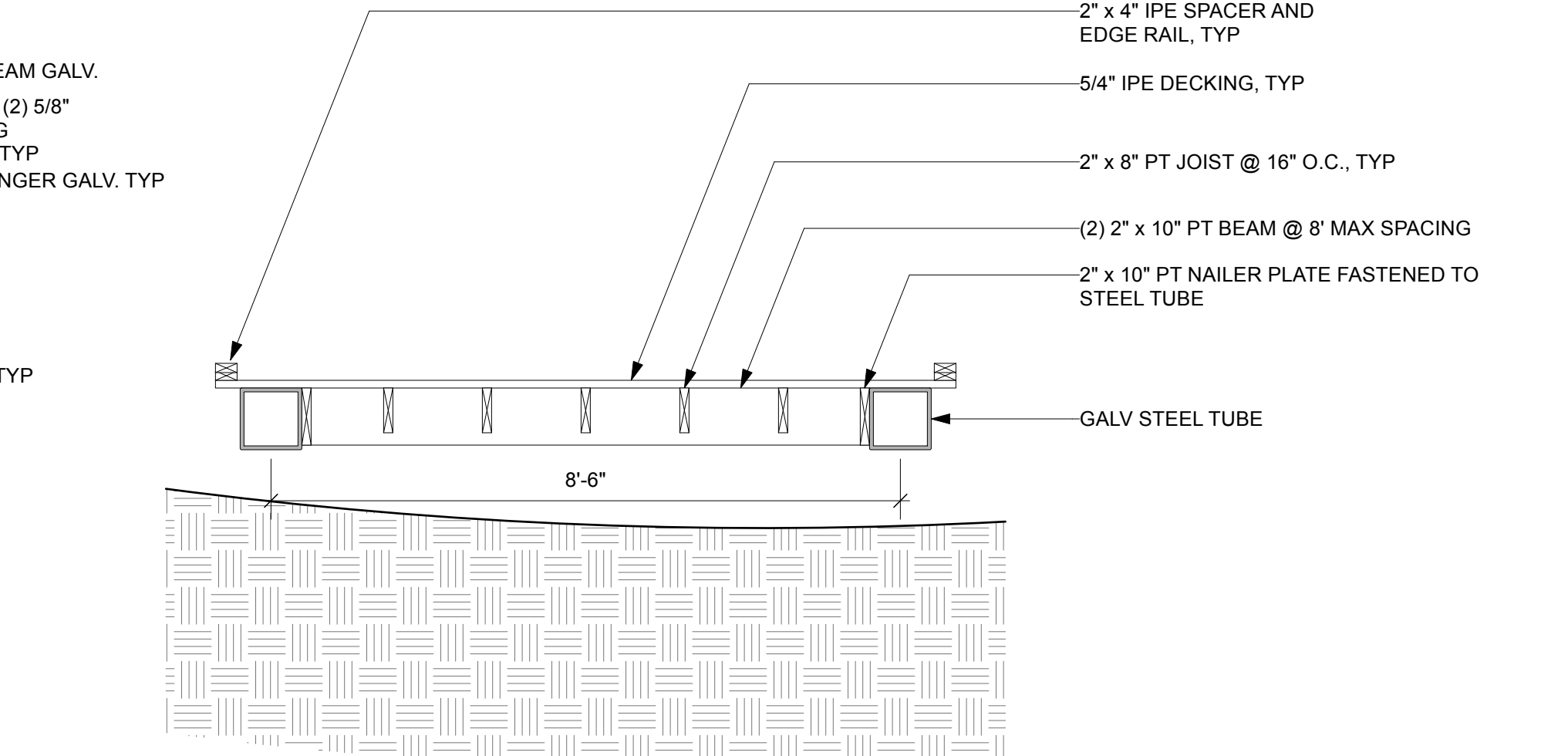
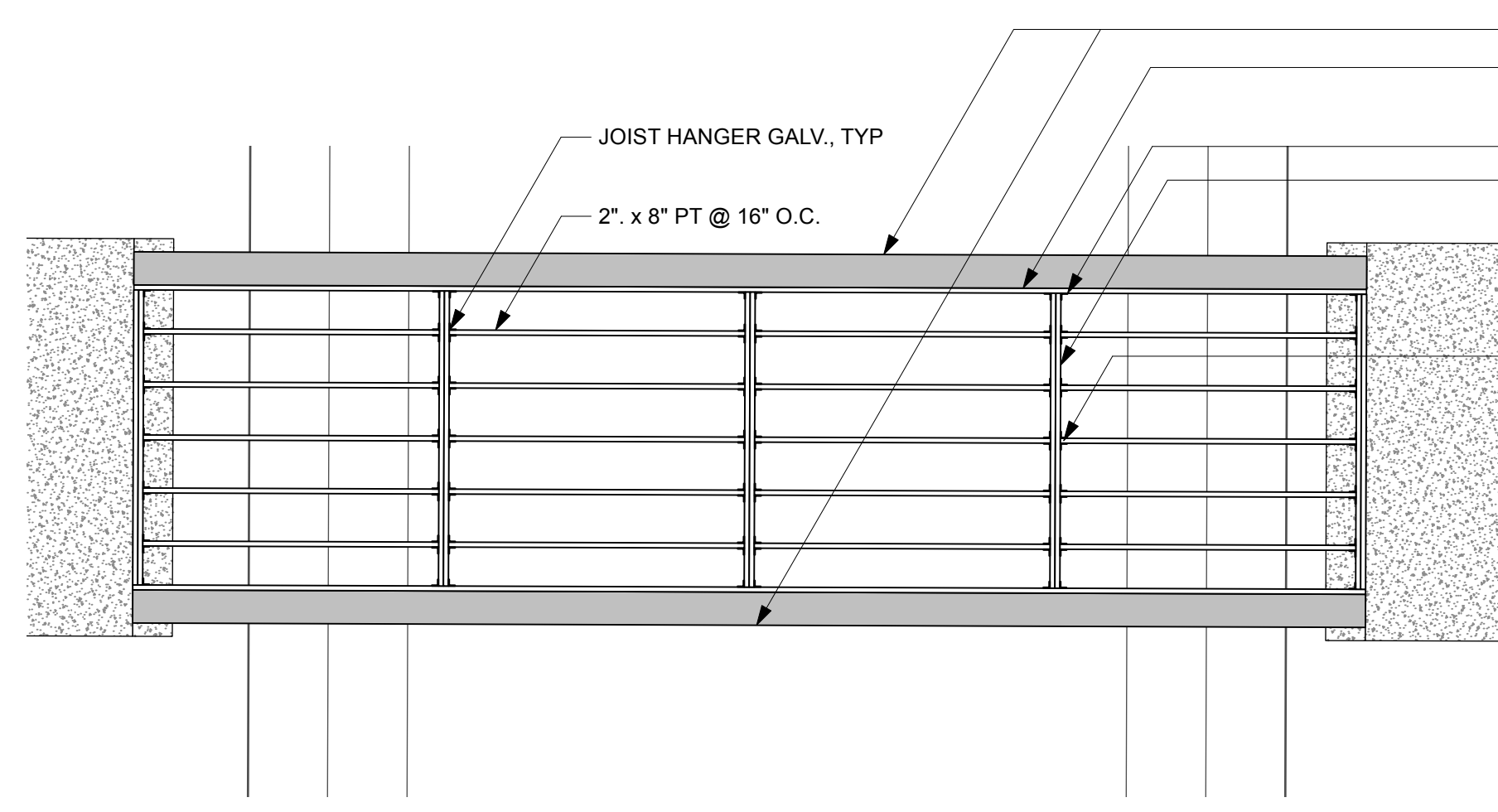
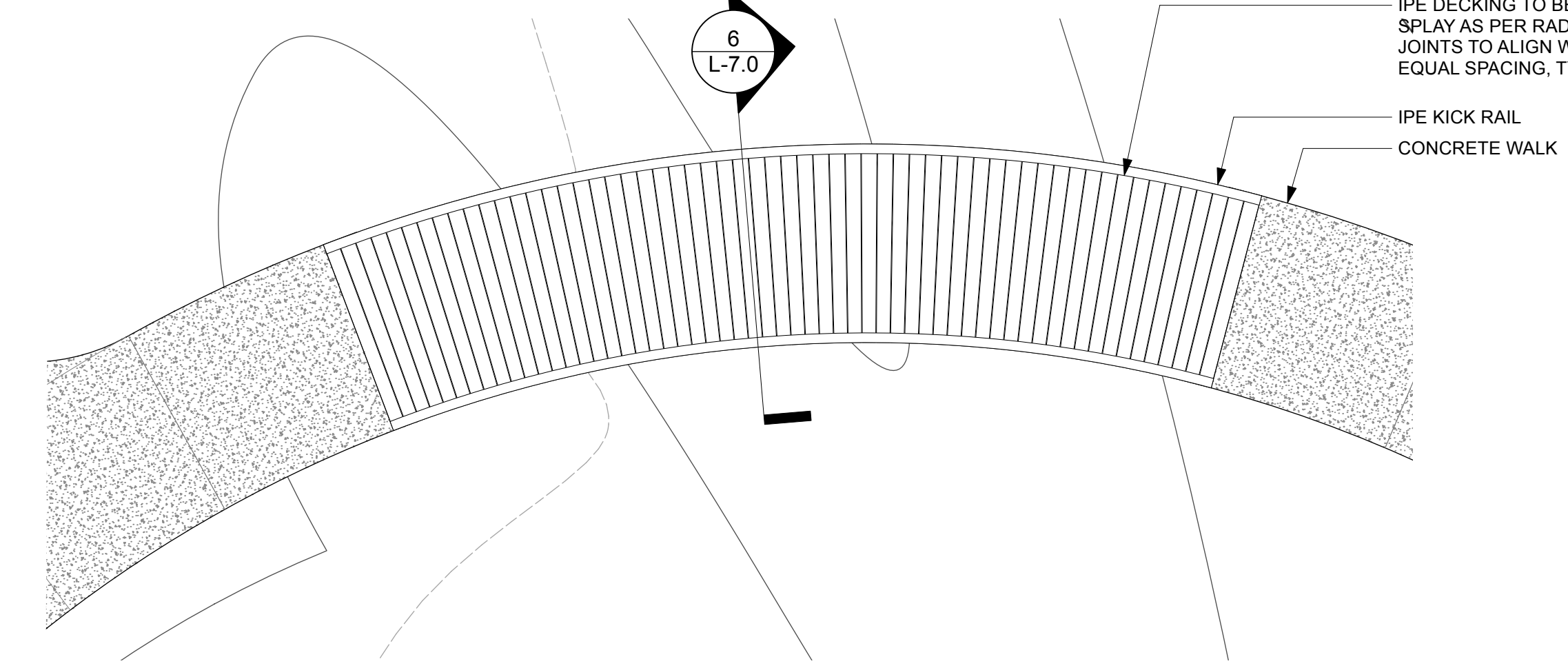
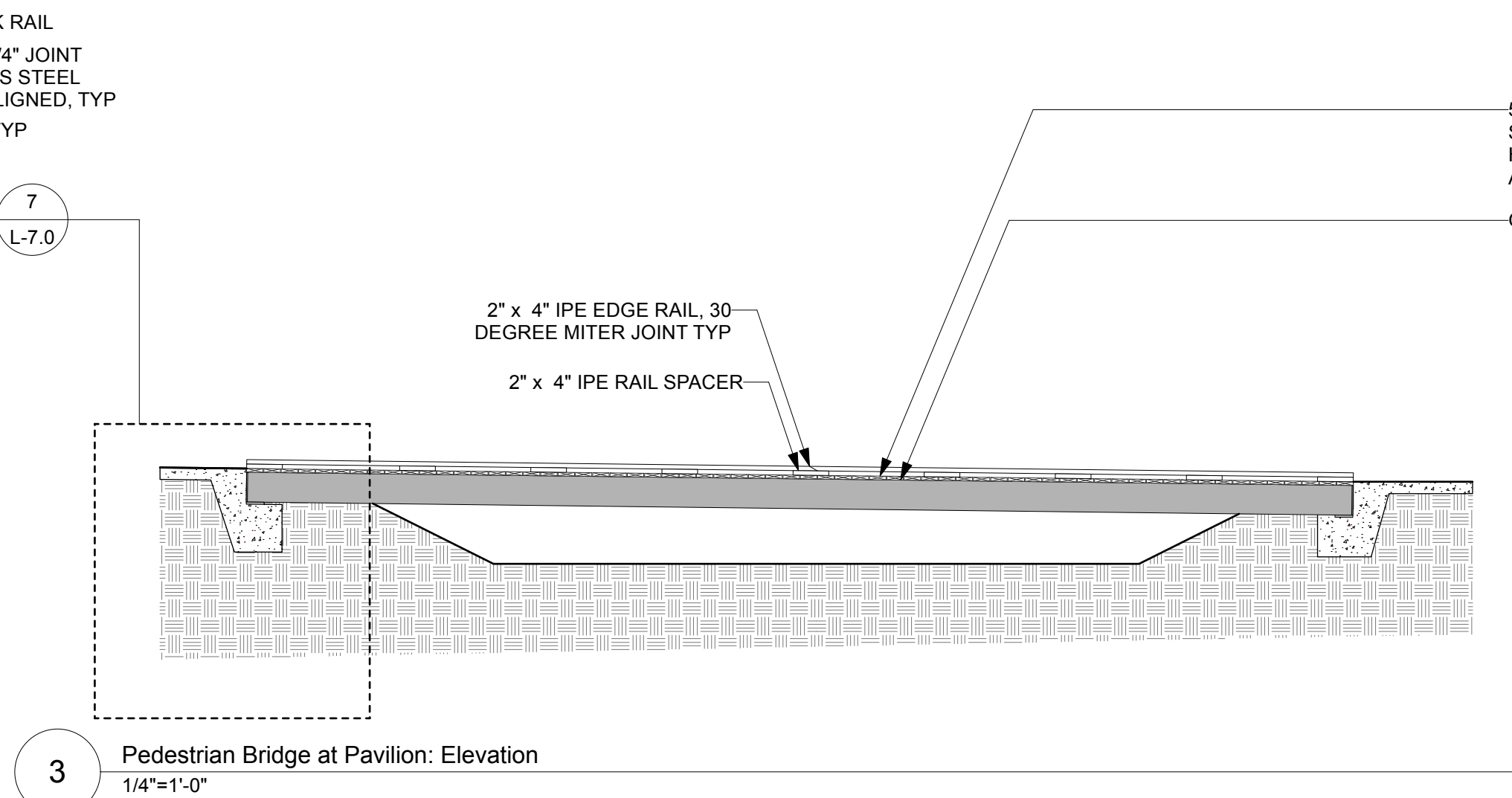
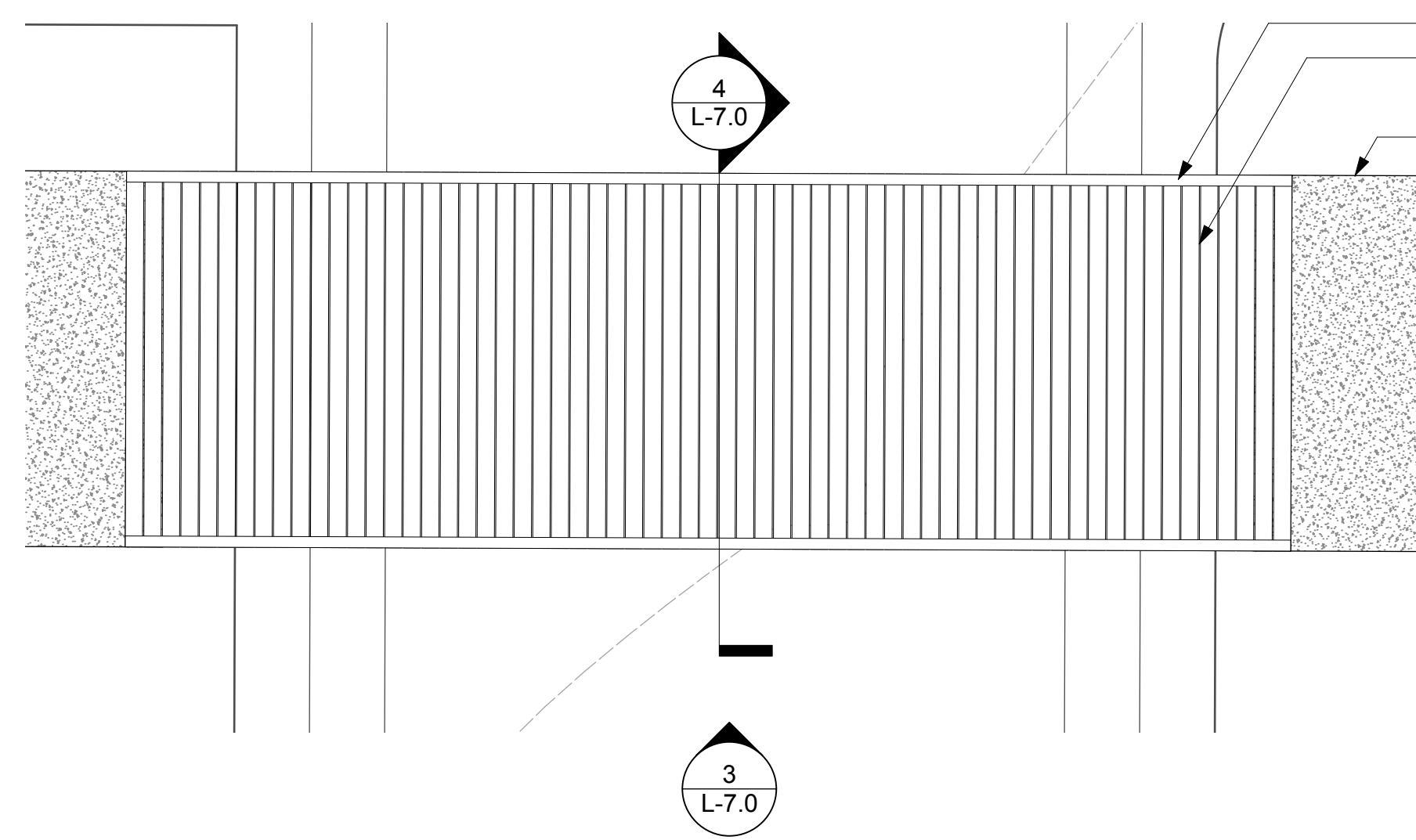
Scale As Noted Date 8/16/24

Title

Site Elevations

Sheet No
L-6.3

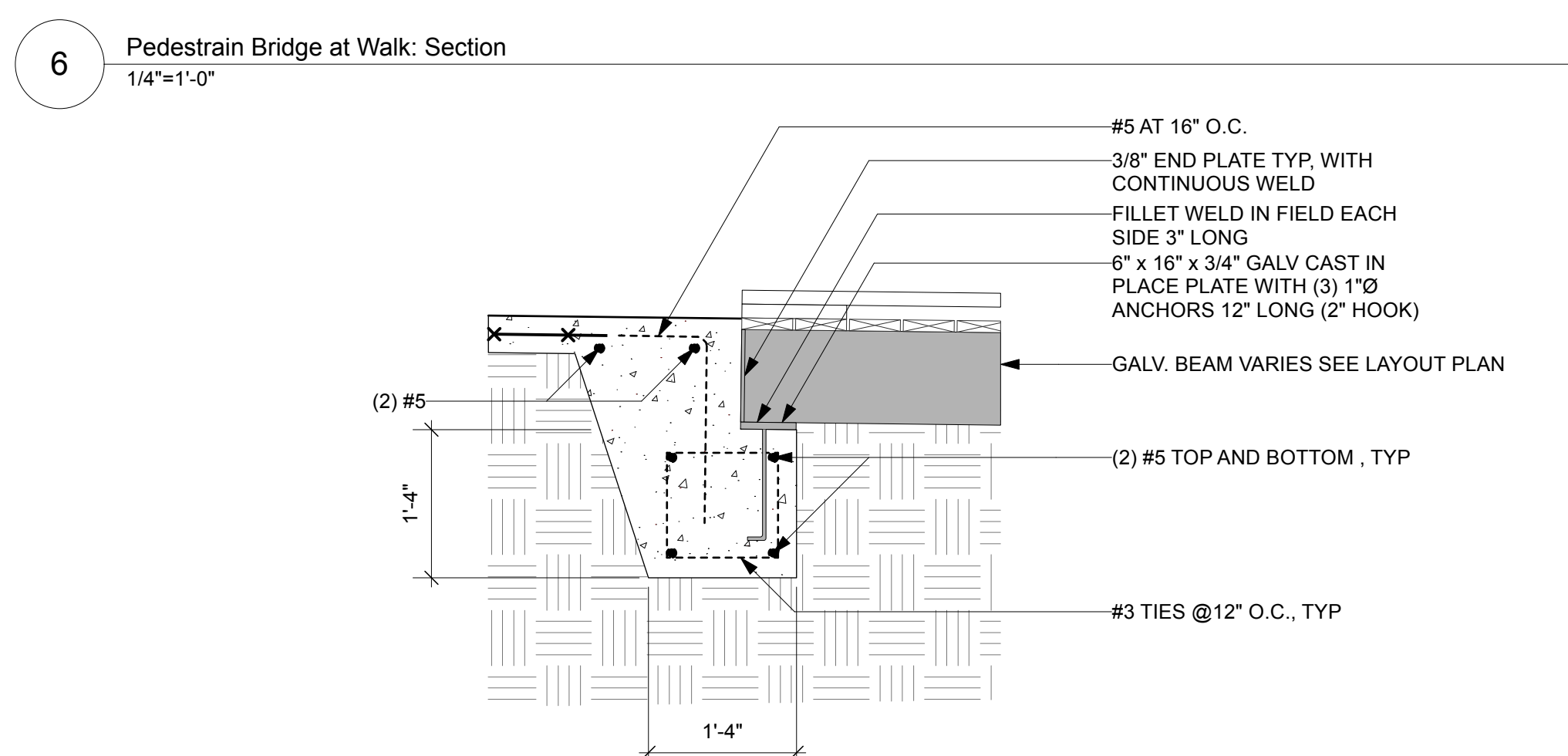
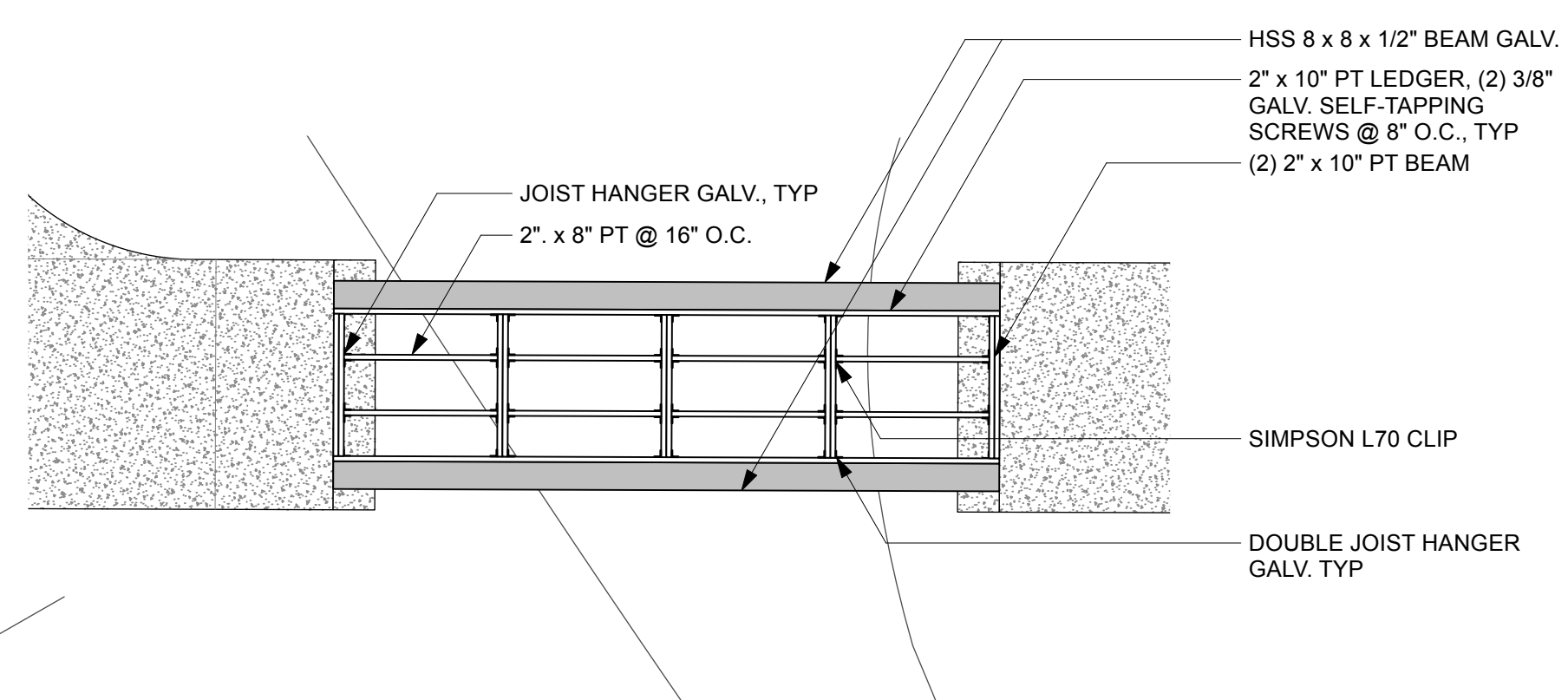
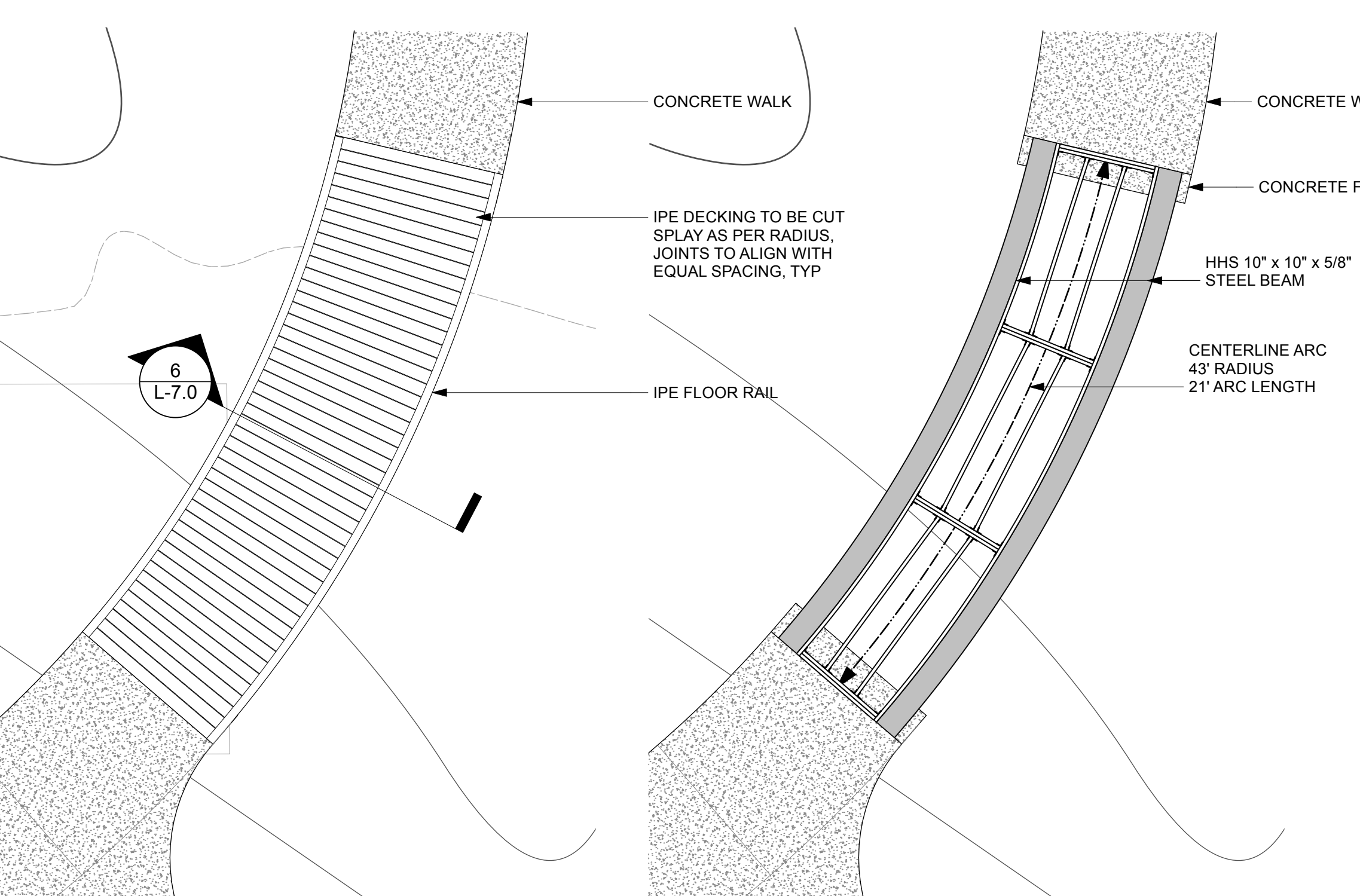
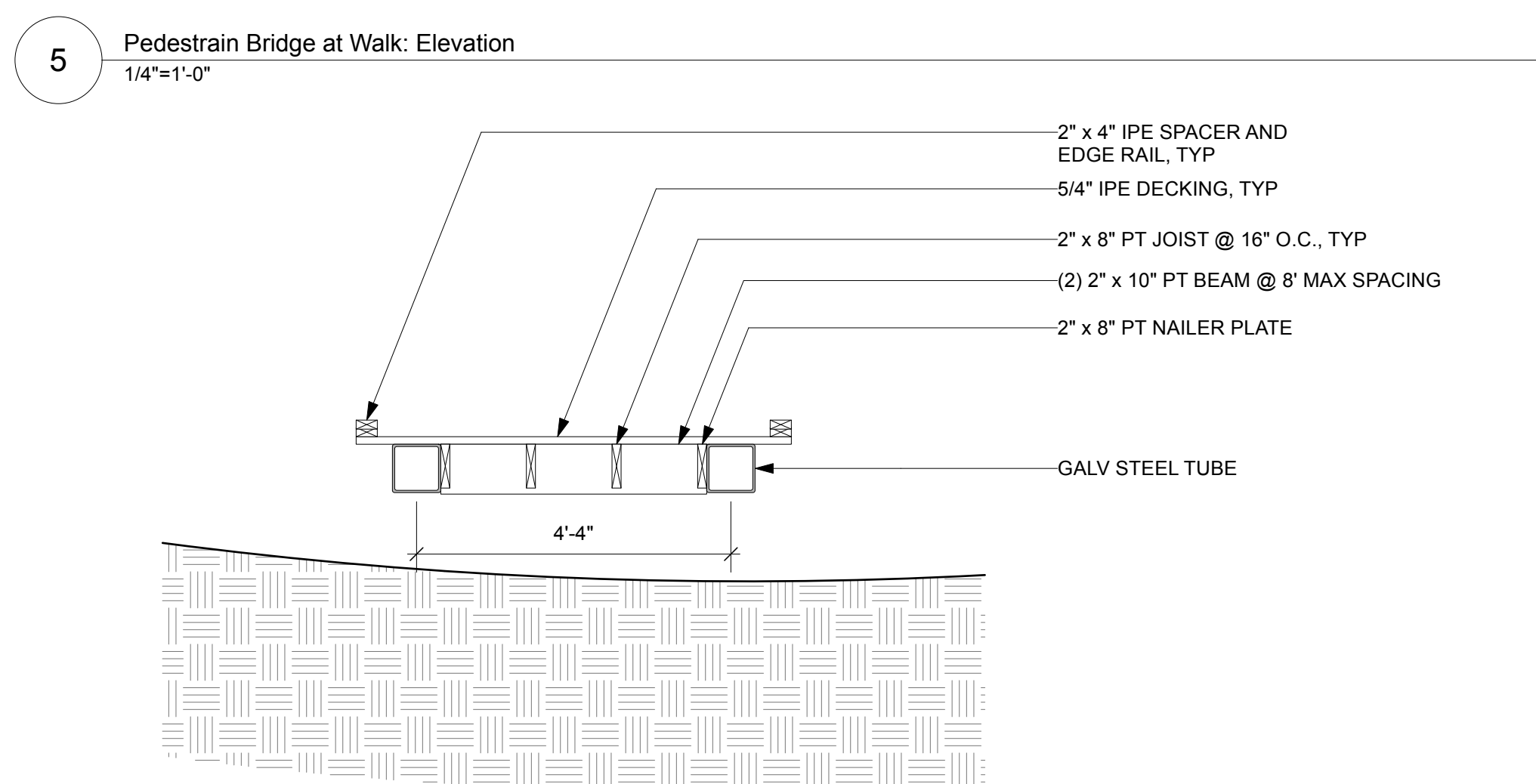
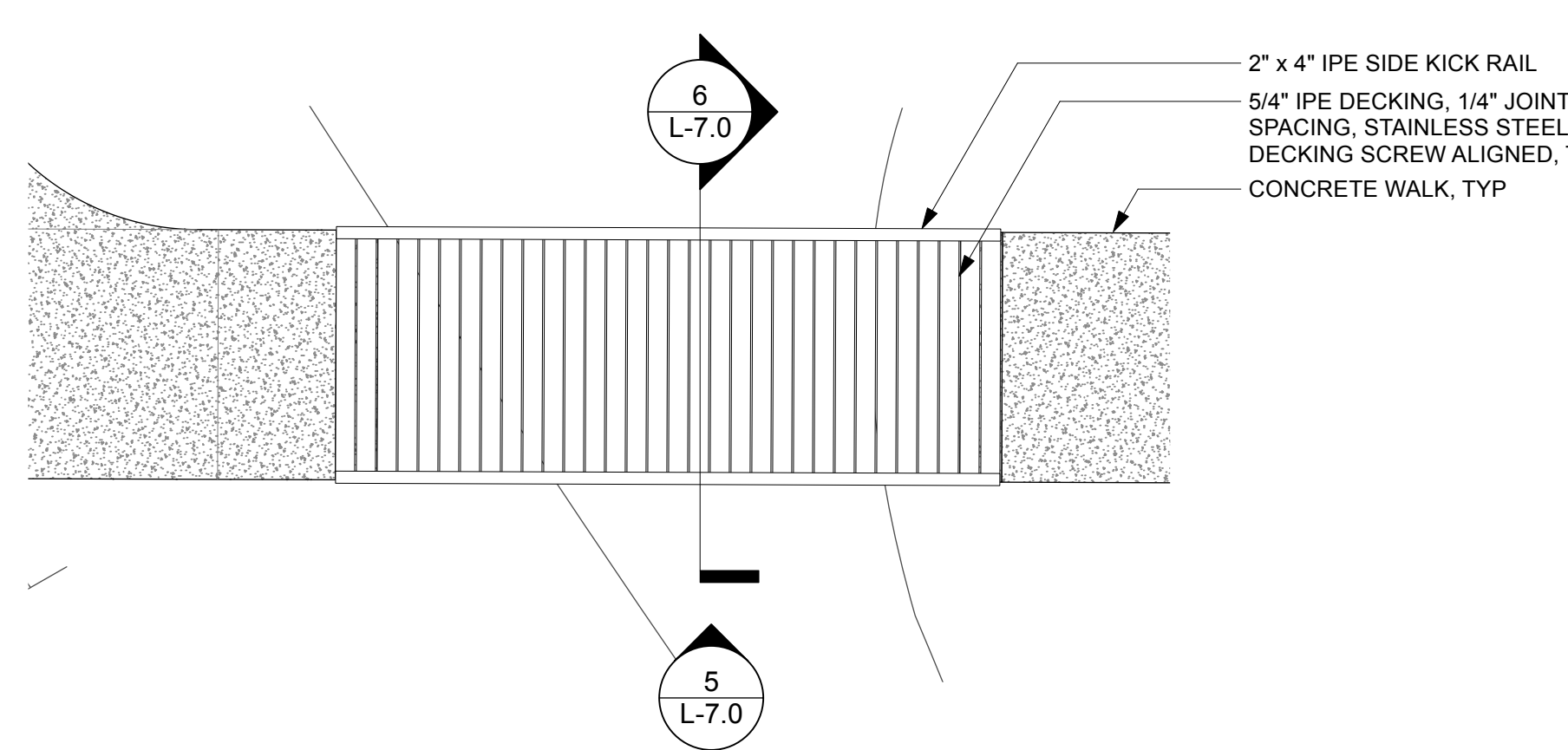
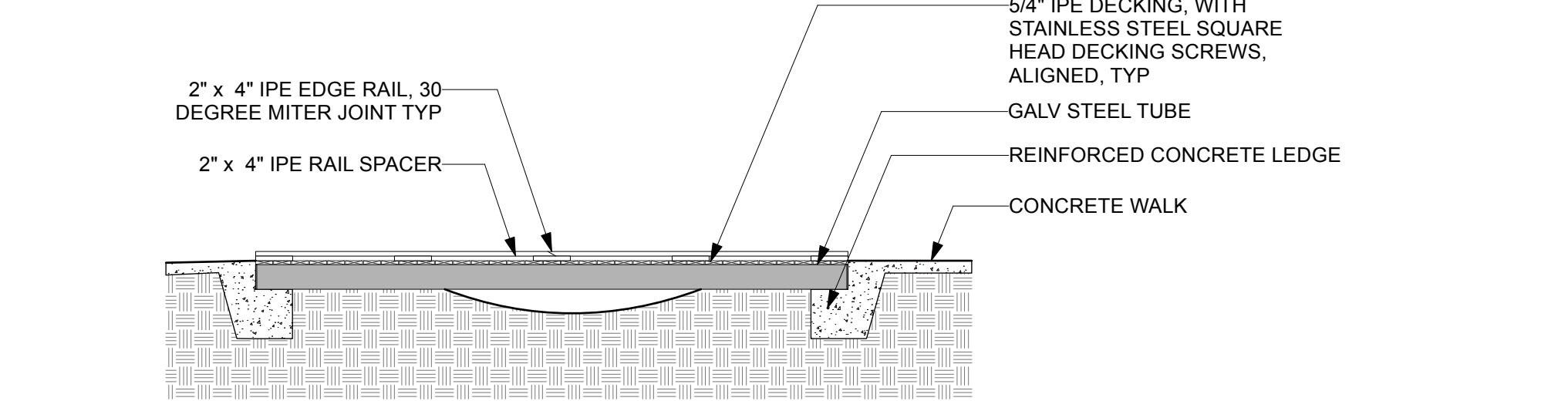
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1 Pedestrian Bridge at Pavilion: Decking / Structure
 1/4"=1'-0"

4 Pedestrian Bridge at Pavilion: Section
 1/4"=1'-0"

8 Pedestrian Bridge at Circular Walk: Decking / Structure
 1/4"=1'-0"



2 Pedestrian Bridge at Walk: Decking / Structure
 1/4"=1'-0"

7 Concrete Footing at Bridge
 3/4"=1'-0"

9 Pedestrian Bridge at Circular Walk: Decking / Structure
 1/4"=1'-0"

Revisions	Number	Date	Description
	1	6.16.24	50% Progress Set
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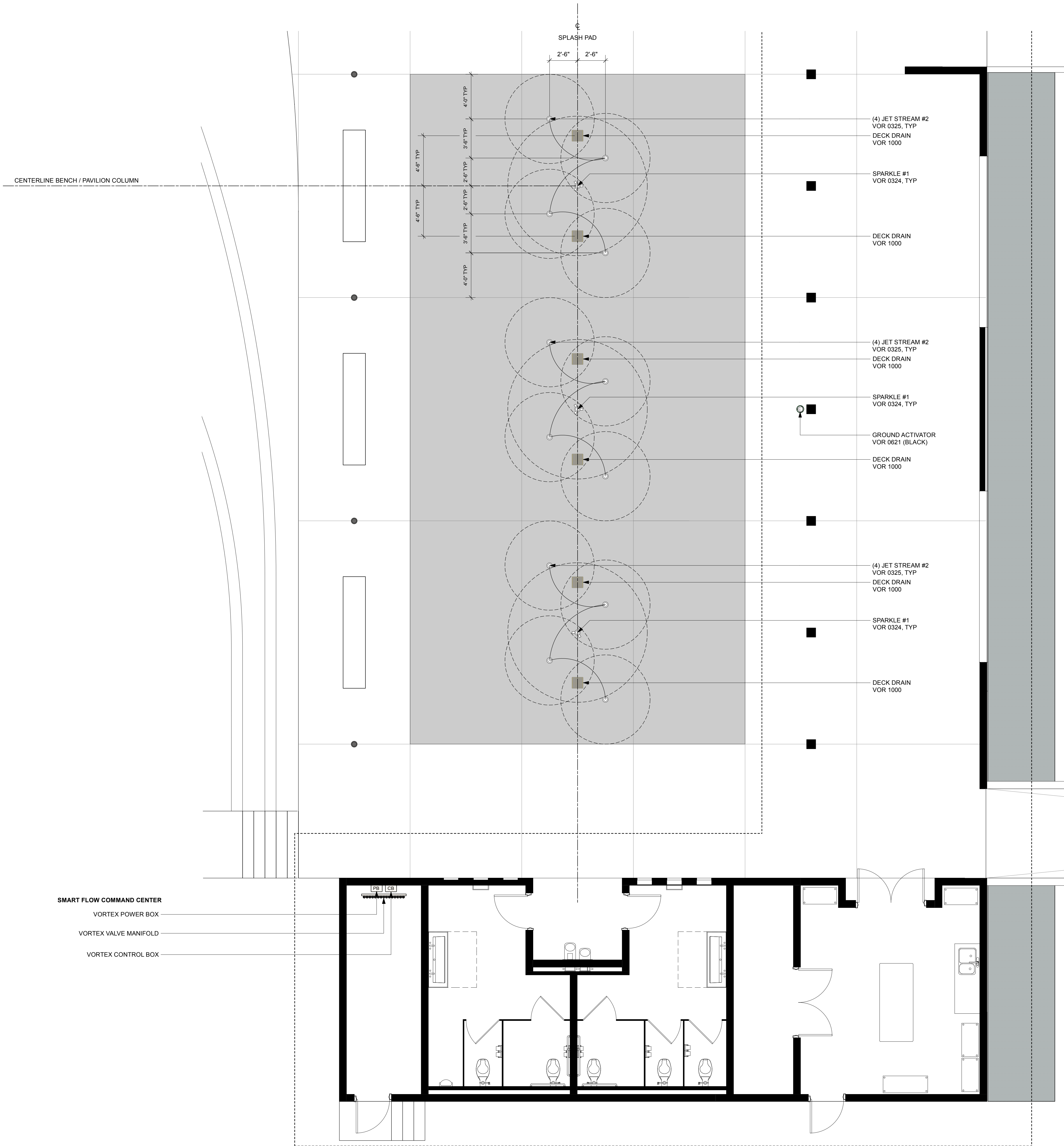
Scale As Noted Date 8/16/24
 Title
Pedestrian Bridge Details

Sheet No
L-7.0

- GENERAL NOTES**
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 - Contractor shall obtain permits for the work as required and comply with all laws, ordinances, rules and regulations of the local jurisdiction, the state, and all other authorities having jurisdiction.
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- SPLASH PAD NOTES**
- Submit all equipment Specifications and Cut-Sheets for all splash pad equipment and plumbing to design team for approval.
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LEGEND

VORTEX SPLASH PAD EQUIPMENT SCHEDULE			
ITEM	ITEM #		QTY
JET STREAM #2	VOR 0325	101125-304L	12
SPARKLE #1	VOR 0324	102620-304L	3
DECK DRAIN 12" x 12"	VOR 1000	105871-304L	6
GROUND ACTIVATOR	VOR 0621	129877-304L	1
VORTEX SMARTFLOW COMMAND CENTER-WALL MOUNTED	-	-	1
INSTALLATION KIT FOR GROUND EQUIPMENT	-	103534-304	93
TOOL KIT #2	-	102313	1
TOOL KIT #1: SECURITY BITS (ALL)	-	102314	1
TOOL KIT #3: 2 PIN KEY_WELDING	-	102301-304L	1

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RUSSELL DESIGN OFFICE
Clemson
864.643.7794

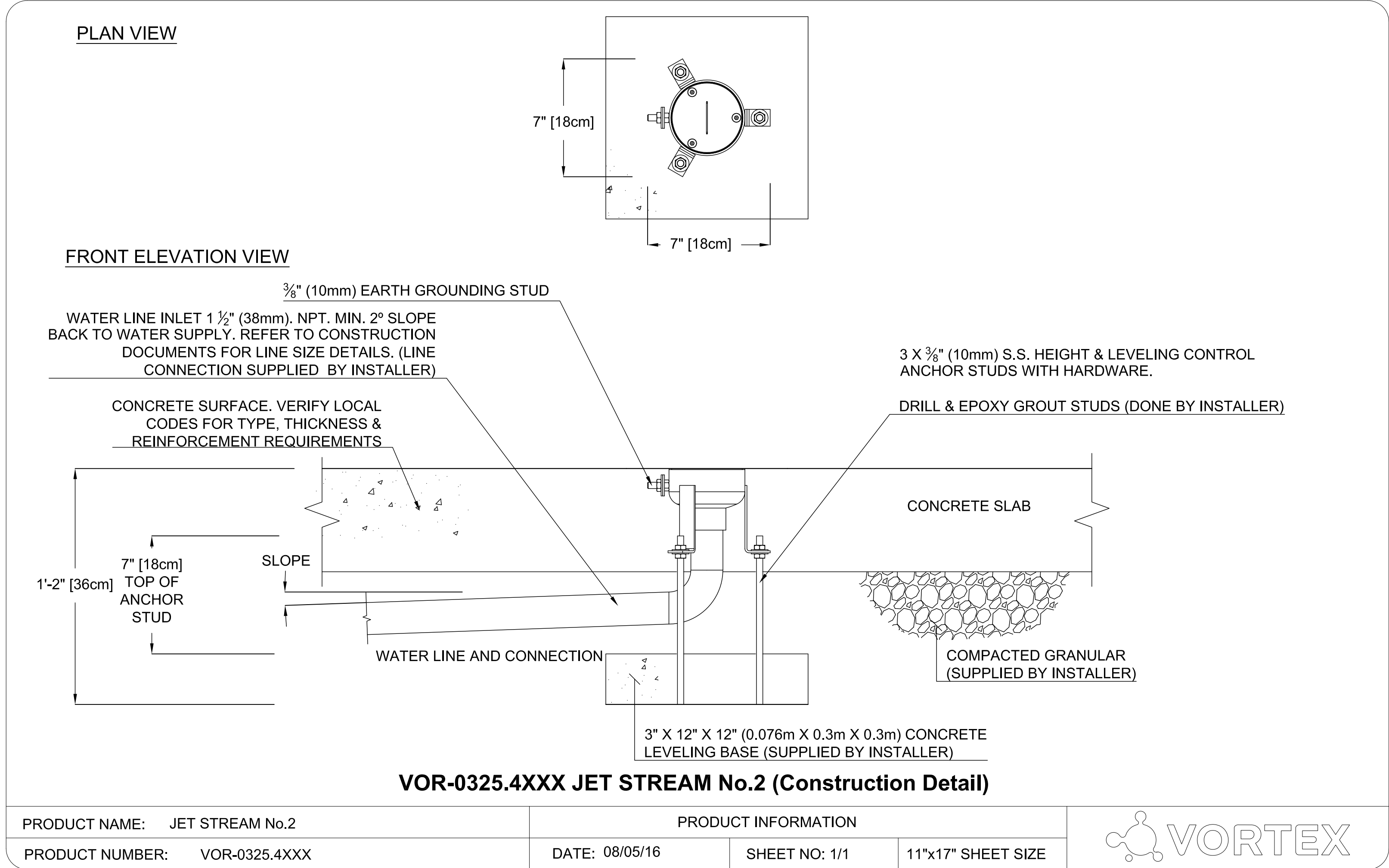
Revisions	Number	Date	Description
	1	6.16.24	50% Progress Set
	2	10.01.24	90% CD
	3	11.01.24	100% CD

Scale 1/4"=1'-0" Date 8/16/24
Title
Splash Pad Layout Plan
Sheet No
L-8.0

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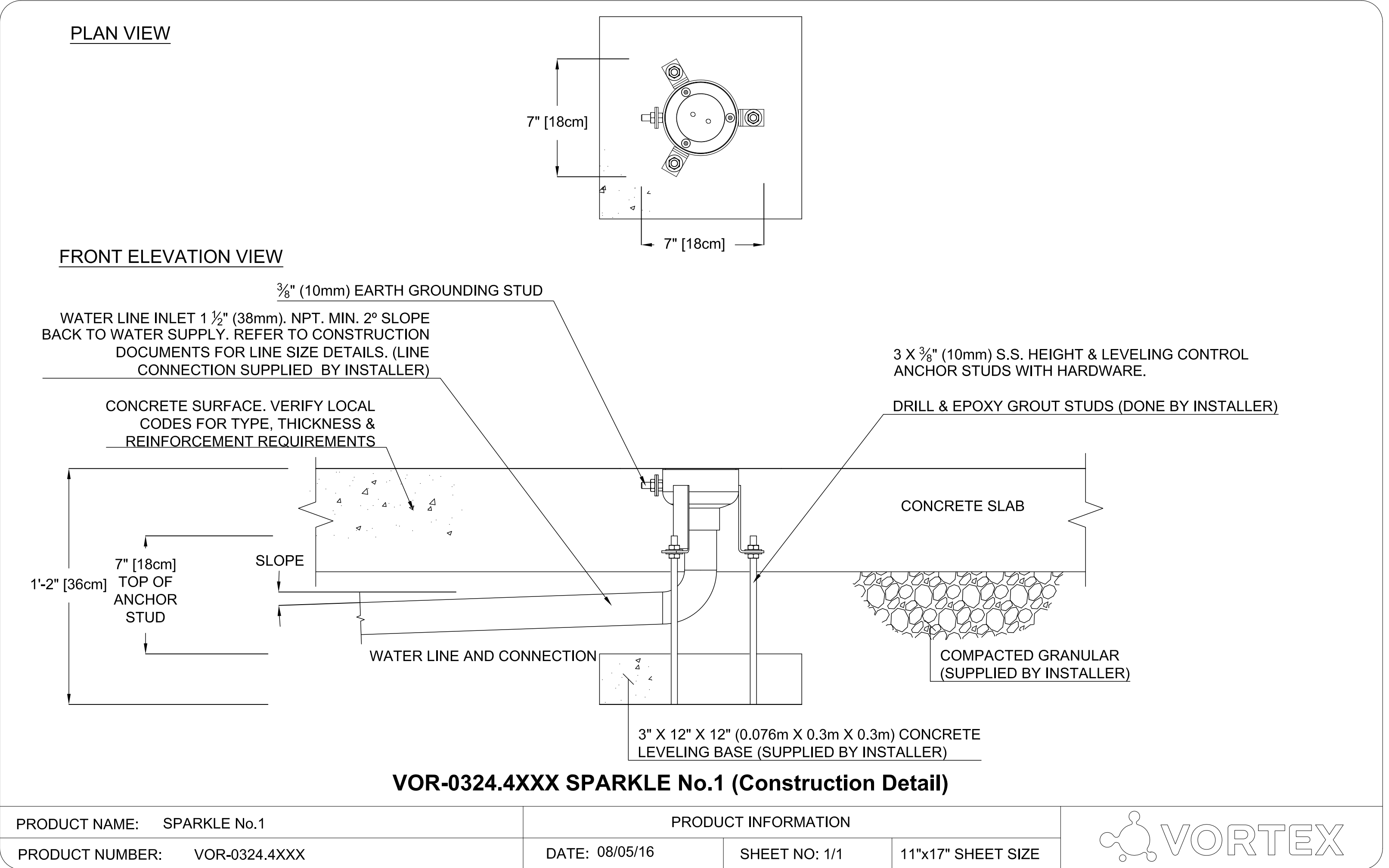
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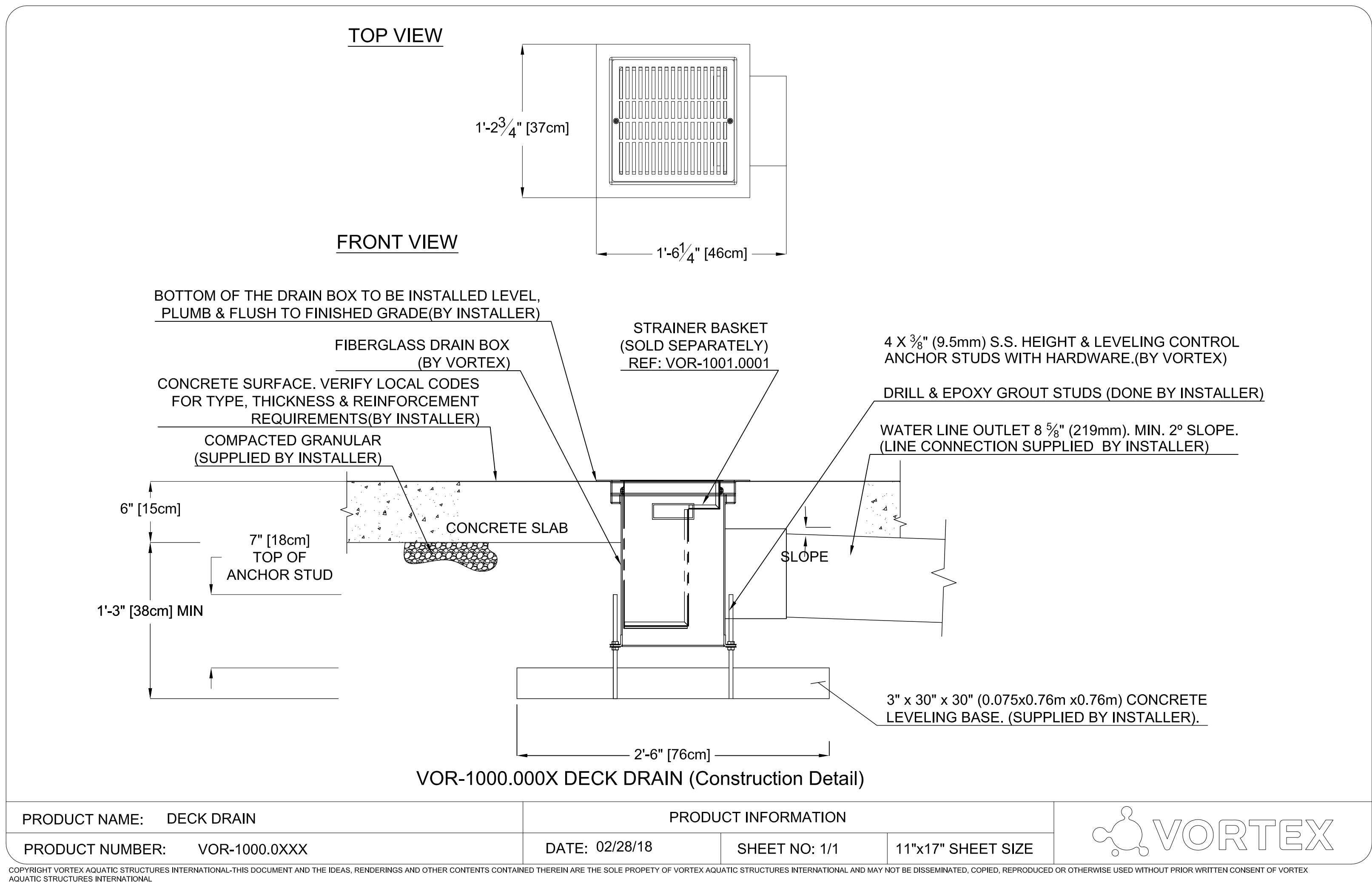
PRODUCT NAME: JET STREAM No.2	PRODUCT INFORMATION		
PRODUCT NUMBER: VOR-0325.4XXX	DATE: 08/05/16	SHEET NO: 1/1	11"x17" SHEET SIZE

1 Vortex - Jet Stream #2



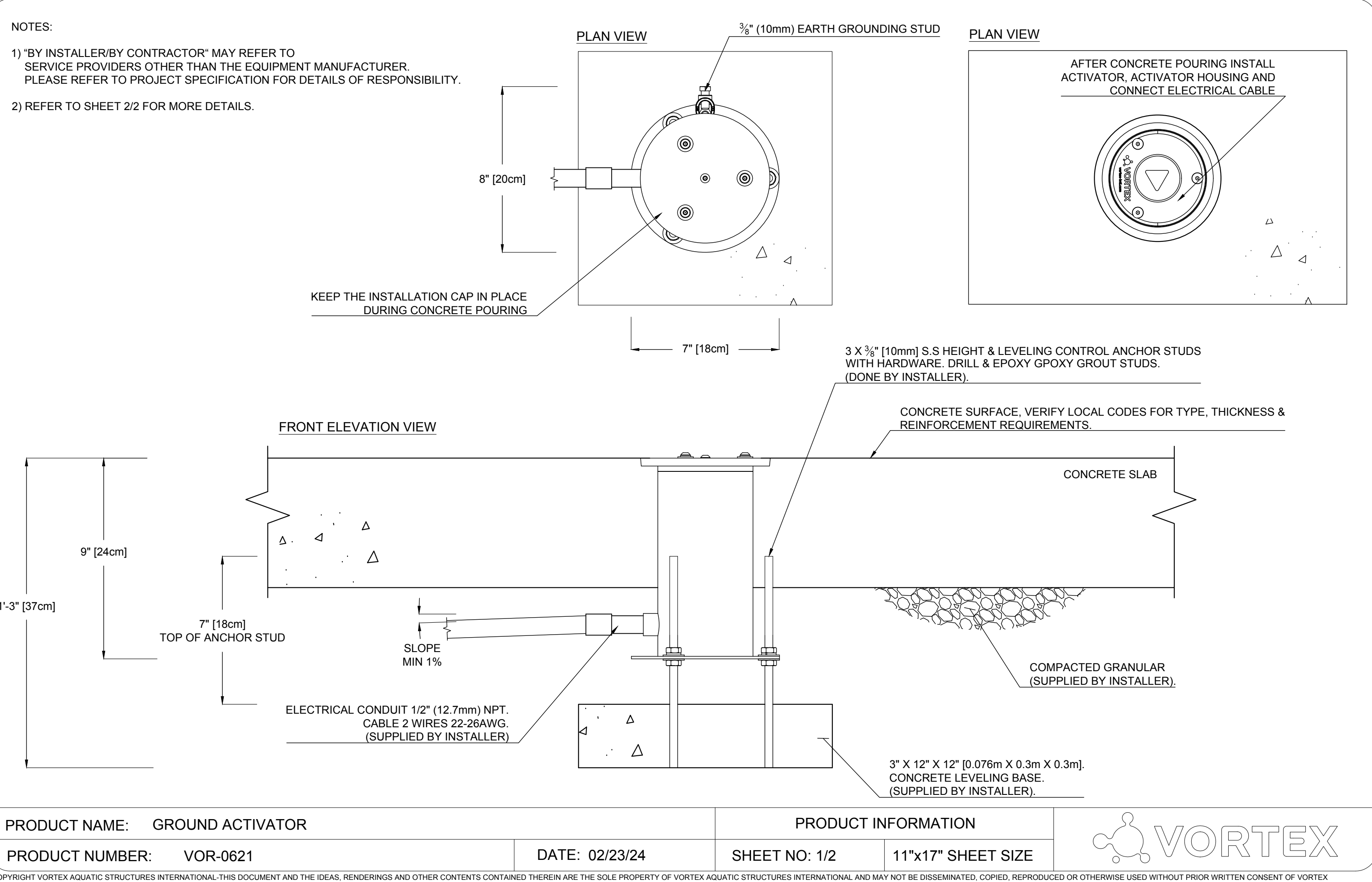
PRODUCT NAME: SPARKLE No.1	PRODUCT INFORMATION		
PRODUCT NUMBER: VOR-0324.4XXX	DATE: 08/05/16	SHEET NO: 1/1	11"x17" SHEET SIZE

2 Vortex - Sparkle #1



PRODUCT NAME: DECK DRAIN	PRODUCT INFORMATION		
PRODUCT NUMBER: VOR-1000.0XXX	DATE: 02/28/18	SHEET NO: 1/1	11"x17" SHEET SIZE

3 Vortex - Deck Drain 12" x 12"



PRODUCT NAME: GROUND ACTIVATOR	PRODUCT INFORMATION		
PRODUCT NUMBER: VOR-0621	DATE: 02/23/24	SHEET NO: 1/2	11"x17" SHEET SIZE

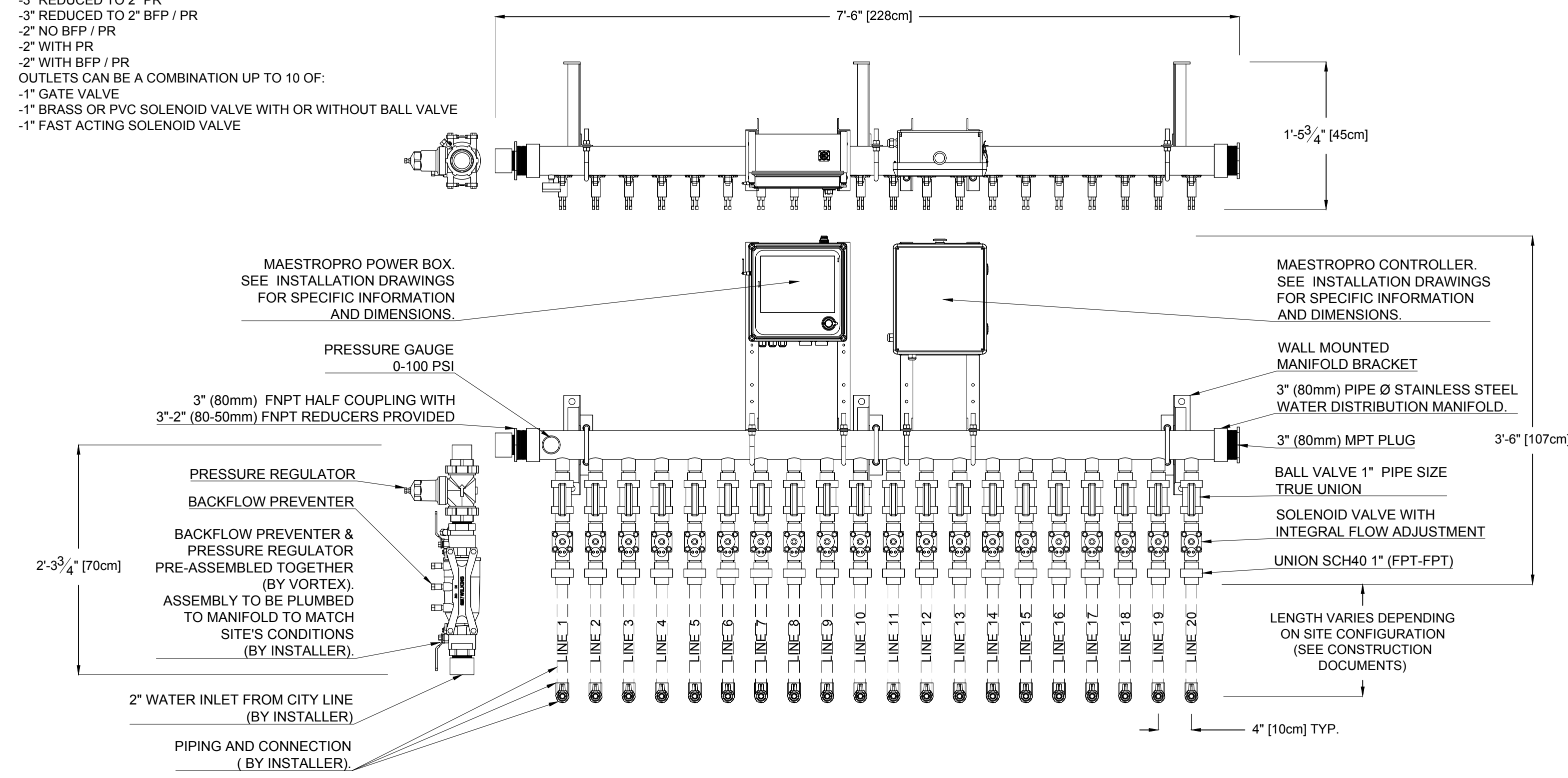
4 Vortex - Ground Activator

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864 643 7794

Revisions	Number	Date	Description
	1	6.16.24	50% Progress Set
	2	10.01.24	90% CD
	3	11.01.24	100% CD

Scale 1/4"=1'-0" Date 8/16/24
Title
Splash Pad Specifications
Sheet No
L-8.1

- NOTES:**
- SEE PIPING AND ELECTRICAL SCHEMATIC DETAIL.
 - REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
 - WATER INLETS & OUTLETS ARE SLIP CONNECTIONS.
 - DIMENSIONS ARE APPROXIMATE AND SUBJECT TO CHANGE WITHOUT NOTICE.
 - WATER INLET, PRESSURE REGULATOR AND BACKFLOW PREVENTER ASSEMBLY CAN BE INSTALLED ON BOTH ENDS OF THE MANIFOLD.
 - INLETS CAN BE CONFIGURED UP TO TWO WITH:
 - 3" NO BFP / PR
 - 3" REDUCED TO 2" PR
 - 3" REDUCED TO 2" BFP / PR
 - 2" NO BFP / PR
 - 2" WITH PR
 - 2" WITH BFP / PR
 - OUTLETS CAN BE A COMBINATION UP TO 10 OF:
 - 1" GATE VALVE
 - 1" BRASS OR PVC SOLENOID VALVE WITH OR WITHOUT BALL VALVE
 - 1" FAST ACTING SOLENOID VALVE



PRODUCT NAME: WCC 16-20 VALVES BFP PR FT

DATE: 10/31/22

SHEET NO: 1/2

11"x17" SHEET SIZE



1 Vortex - Smart Flow Command Center

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Clemson
864.643.7794

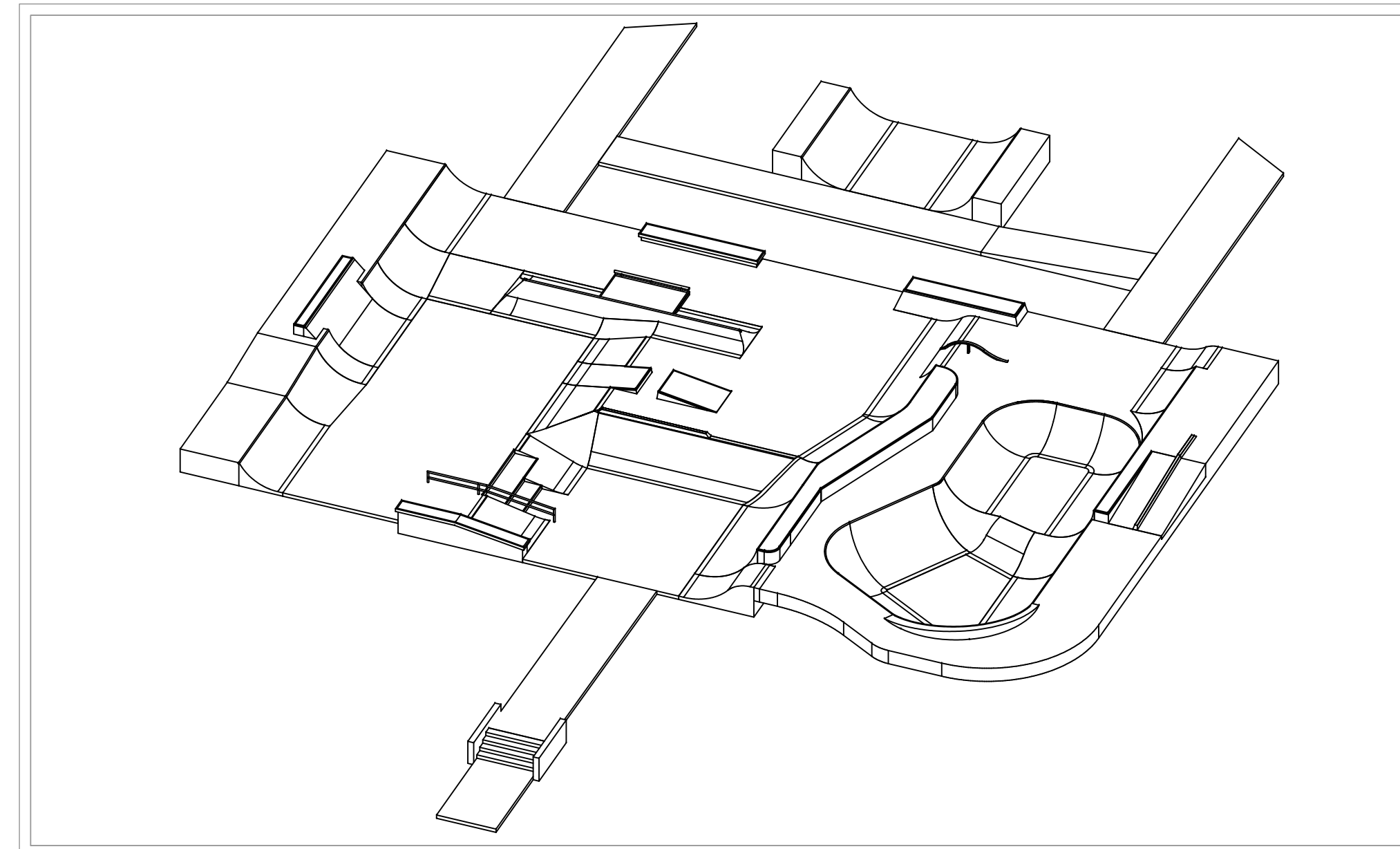
Number	Date	Description
1	6.16.24	50% Progress Set
2	10.01.24	90% CD
3	11.01.24	100% CD

Scale 1/4"=1'-0" Date 8/16/24

Title
Splash Pad Specifications

Sheet No
L-8.2

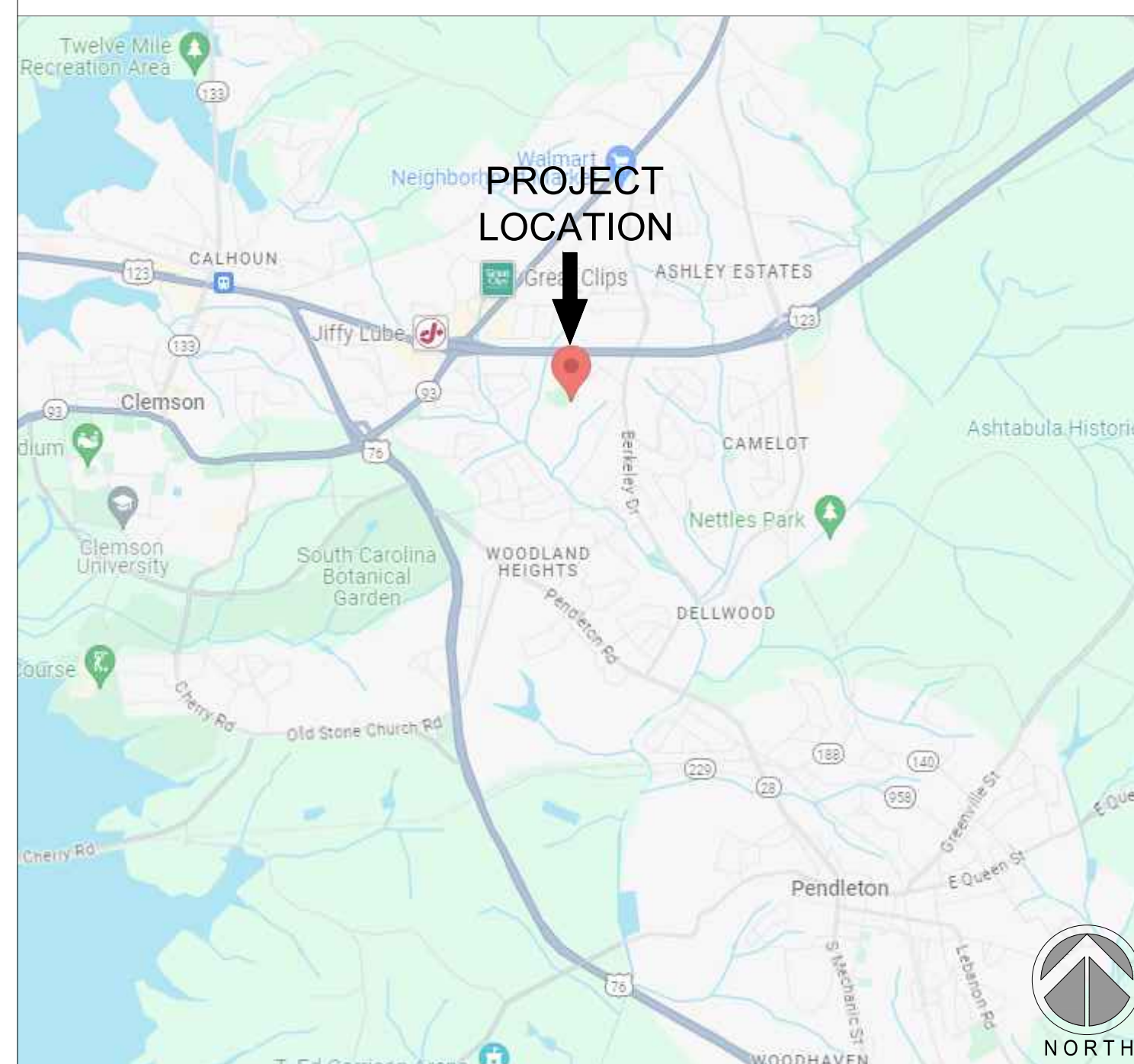
CONSTRUCTION PLAN SET PREPARED FOR CLEMSON PARK SKATEPARK



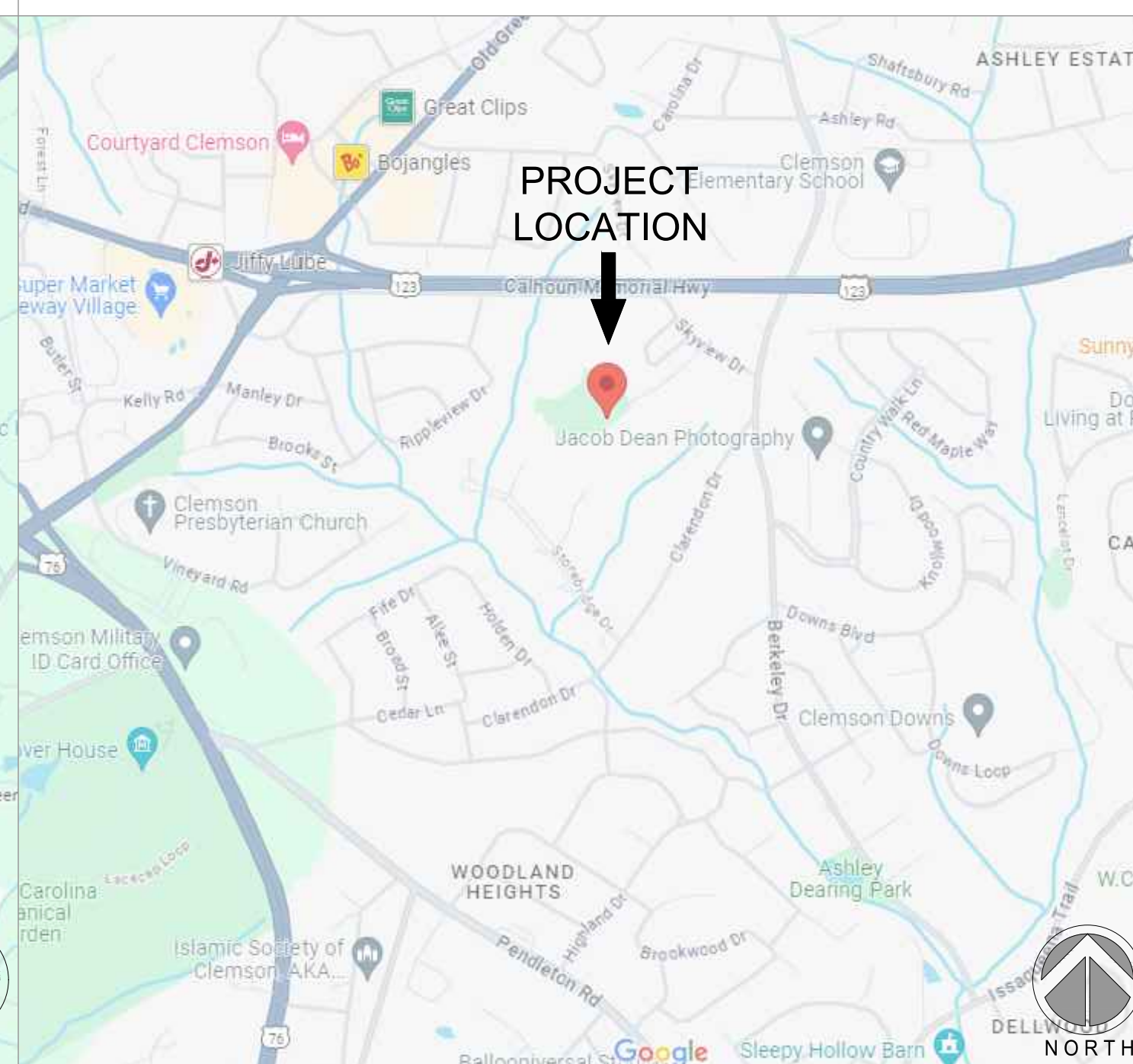
CITY OF CLEMSON, SC

PLAN DATE IDENTIFIER
August 16, 2024
DATE OF LAST REVISIONS

VICINITY MAP



LOCATION MAP



PROJECT INFORMATION

OWNER/ DEVELOPER
CITY OF CLEMSON, SC
1250 TIGER BLVD.
CLEMSON, SC 29631

SITE ADDRESS
114 CLEMSON PARK RD.
CLEMSON, SC 29631

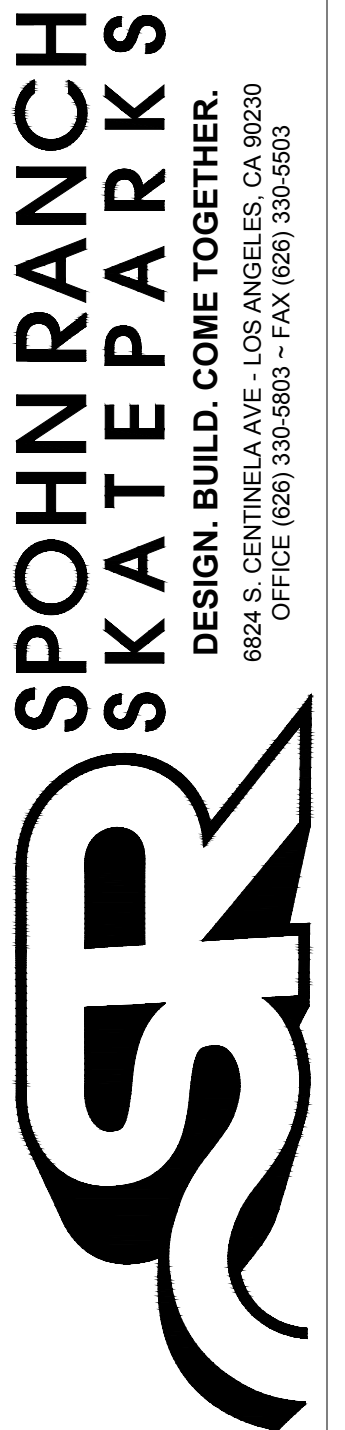
PROJECT TEAM
LANDSCAPE ARCHITECT
PAUL RUSSELL
RUSSELL DESIGN OFFICE
95 E LEWIS RD.
CLEMSON, SC 29631

SHEET

- SK1.0
- SK2.0
- SK2.1
- SK3.0
- SK3.1
- SK4.0
- SK5.0
- SK6.0
- SK7.0
- SK8.0
- SK8.1
- SK8.2
- SK8.3
- SK9.0
- SK9.1

DESCRIPTION

- TITLE SHEET
- SPECIFICATIONS
- SPECIFICATIONS
- 3D PERSPECTIVE
- 3D PERSPECTIVE
- INFORMATION PLAN
- LAYOUT PLAN
- GRADING + DRAINAGE PLAN
- STEEL PLAN
- SECTIONS
- SECTIONS
- SECTIONS
- SECTIONS
- CONSTRUCTION DETAILS
- CONSTRUCTION DETAILS



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NO	DATE	DESCRIPTION

SKATE PARK DESIGNED BY	STAMP:
CW	
DOCUMENTS BY	
DM / AL	
PLAN CHECKED BY	
DH	
DATE	8/16/2024

PROJECT TITLE	CLEMSON PARK SKATEPARK
SHEET TITLE	TITLE SHEET

SHEET
SK1.0
OF XX

NOT FOR CONSTRUCTION

SHOTCRETE SPECIFICATIONS

PART 1- GENERAL

- 1.1 SUMMARY**
- A. SPECIALTY CONSTRUCTION:
 - A.A. DESCRIPTION: SHOTCRETE APPLICATION, CUTTING, SCULPTING AND FINISH WORK HAS BEEN DEEMED AS SPECIALTY CONSTRUCTION WORK WITHIN THE CONSTRUCTION DOCUMENTS. ALL WORK RELATED TO THE SPECIALTY CONSTRUCTION SHALL BE COORDINATED BY THE PROJECT ENGINEER, AND THE PRE-QUALIFIED SPECIALTY CONTRACTOR, PRIOR TO THE START OF CONSTRUCTION.
- 1.2 QUALITY ASSURANCE**
- A. STANDARDS: COMPLY WITH THE REQUIREMENTS OF THE CURRENT EDITION OF THE FOLLOWING CODES AND STANDARDS, EXCEPT AS HEREIN MODIFIED:
 - A.A. AMERICAN CONCRETE INSTITUTE (ACI): 506, CHAPTER 13, WET METHOD, CHAPTER 5, SHOTCRETE CREW
 - A.B. ASTM: "AMERICAN SOCIETY FOR TESTING MATERIALS"
- 1.3 REFERENCE STANDARDS**
- A. ACI 305- RECOMMENDED PRACTICE FOR HOT WEATHER CONCRETING.
 - B. ACI 306- RECOMMENDED PRACTICE FOR COLD WEATHER CONCRETING.
 - C. ASTM C33- CONCRETE AGGREGATES
 - D. ASTM C94- READY-MIXED CONCRETE
 - E. ASTM C143- TEST FOR SLUMP OF PORTLAND CEMENT CONCRETE
 - F. ASTM C150- PORTLAND CEMENT
 - G. ASTM C260- AIR-ENTRAINING ADMIXTURES FOR CONCRETE
 - H. ASTM C494- CHEMICAL ADMIXTURES FOR CONCRETE
 - I. ASTM C618- FLY ASH AND RAW OR CALCINED NATURAL POZZOLANS FOR USE IN PORTLAND CEMENT CONCRETE.
- 1.4 JOB CONDITIONS**
- A. COORDINATION:
 - A.A. COORDINATE SCHEDULES OF CONCRETE WORK TO ALLOW ADEQUATE TIME FOR INSTALLATION OF OTHER RELATED WORK.
 - A.B. VERIFY THAT ANCHOR BOLTS AND OTHER EMBEDDED STEEL ITEMS TO BE CAST INTO CONCRETE ARE PROPERLY PLACED.
 - A.C. COORDINATE EARTHWORK AND SOILS REPORT RECOMMENDATIONS WITH PLACEMENT REQUIREMENTS.
 - A.D. COORDINATE WITH FORM-WORK AND FINISHES SECTIONS TO PROVIDE FINISH FLOORLEVELNESS AND FLATNESS AS SPECIFIED HEREIN. SLOPE TO DRAINS AT GRADES AND PERCENT SLOPE SHOWN IN THE CONSTRUCTION DRAWINGS.

PART 2- SHOTCRETE WORK

- 2.1 SHOTCRETE MIX DESIGN**
- A. PROVIDE MIX DESIGNS THAT WILL MEET THE MINIMUM REQUIREMENTS LISTED HEREIN:
 - A.A. MINIMUM 28-DAY STRENGTH: 4000 PSI
 - A.B. TYPE III/IV CEMENT
 - A.C. SMALL AGGREGATE (1/2" MAX.)
 - A.D. WATER/CEMENT RATIO OF .45 OR LESS
 - A.E. AIR ENTRAINMENT NOT TO EXCEED 3%
 - B. MIX DESIGNS FOR SHOTCRETE CONTAINING FLY ASH: THE AMOUNT OF FLY ASH USED SHALL NOT EXCEED 20% BY WEIGHT OF THE COMBINED WEIGHT OF FLY ASH PLUS CEMENT.
- 2.2 CONCRETE APPLICATION EQUIPMENT**
- A. FOR WET MIX SHOTCRETE:
 - A.A. MIXING EQUIPMENT: CAPABLE OF THOROUGHLY MIXING AGGREGATE, CEMENT AND WATER IN SUFFICIENT QUANTITY TO MAINTAIN CONTINUOUS PLACEMENT.
 - A.B. AIR SUPPLY: CLEAN AIR ADEQUATE FOR MAINTAINING SUFFICIENT NOZZLE VELOCITY FOR PARTS OF WORK, AND FOR SIMULTANEOUS OPERATION OF BLOW PIPE FOR CLEANING AWAY REBOUND.
 - A.C. DELIVERY EQUIPMENT: CAPABLE OF DISCHARGING AGGREGATE-CEMENT-WATER MIXTURE ACCURATELY, UNIFORMLY, AND CONTINUOUSLY THROUGH DELIVERY HOSE.

PART 3- EXECUTION

- 3.1 INSPECTION**
- A. EXAMINATION: EXAMINE CONCRETE FORMWORK AND VERIFY THAT IT IS TRUE TO LINE AND DIMENSION, ADEQUATELY BRACED AGAINST VIBRATION, AND CONSTRUCTED TO PERMIT ESCAPE OF AIR AND REBOUND BUT TO PREVENT LEAKAGE DURING SHOTCRETING. CORRECT DEFICIENCIES.
 - B. NOTIFICATION: NOTIFY OTHER TRADES INVOLVED IN AMPLE TIME TO PERMIT THE PROPER INSTALLATION OF THEIR WORK. COOPERATE IN SETTING SUCH WORK.
 - C. EXISTING SURFACES: EXAMINE EXISTING CONCRETE SURFACES FOR UNSOUND MATERIAL. CORRECT DEFICIENCIES.
- 3.2 PREPARATION FOR INSTALLATION OF CONCRETE**
- A. FORMS: USE A FORM-COATING MATERIAL ON REMOVABLE FORMS TO PREVENT ABSORPTION OF MOISTURE AND TO PREVENT BOND WITH SHOTCRETE.
- 3.3 CONCRETE BATCHING AND MIXING**
- A. PROPORTIONS: MIX PROPORTIONS SHALL BE CONTROLLED BY WEIGHT BATCHING.

- B. SCHEDULING: CONCRETE SHALL NOT EXCEED A TEMPERATURE OF 100 DEGREES FAHRENHEIT AT TIME OF PLACEMENT UNLESS PRE-APPROVED BY THE PROJECT ENGINEER.
- 3.4 CONCRETE PLACEMENT**
- A. PLACEMENT: USE SUITABLE DELIVERY EQUIPMENT AND PROCEDURES THAT WILL RESULT IN SHOTCRETE IN PLACE MEETING THE REQUIREMENTS OF THIS SPECIFICATION. DETERMINE OPERATING PROCEDURES FOR PLACEMENT IN EXTENDED DISTANCES, AND AROUND ANY OBSTRUCTIONS WHERE PLACEMENT VELOCITIES AND MIX CONSISTENCY MUST BE ADJUSTED.
 - B. PLACEMENT TECHNIQUES:
 - B.A. CONTROL THICKNESS, METHOD OF SUPPORT, AIR PRESSURE, AND/OR WATER CONTENT OF SHOTCRETE TO PRECLUDE SAGGING OR SLOUGHING OFF. DISCONTINUE SHOTCRETING OR PROVIDE SUITABLE MEANS TO SCREEN THE NOZZLE STREAM IF WIND OR AIR CURRENTS CAUSE SEPARATION OF THE NOZZLE STREAM DURING PLACEMENT.
 - B.B. HOLD NOZZLE AS PERPENDICULAR TO SURFACE AS WORK WILL PERMIT, TO SECURE MAXIMUM COMPACTION WITH MINIMUM REBOUND.
 - B.C. IN SHOTCRETING WALLS, BEGIN APPLICATION AT BOTTOM. ENSURE WORK DOES NOT SAG.
 - B.D. LAYERING:
 - B.D.A. BUILD UP LAYERS BY MAKING SEVERAL PASSES OF NOZZLE OVER WORK AREA.
 - B.D.B. MAKE SURE SURFACE IS ADEQUATELY ROUGH TO WHICH, AFTER HARDENING, ADDITIONAL LAYERS OF SHOTCRETE ARE TO BE BONDED.
 - B.D.C. DAMPEN SURFACE (ACHIEVE SATURATED SURFACE DRY (SSD) CONDITION) JUST PRIOR TO APPLICATION OF SUCCEEDING LAYERS.
 - B.D.D. ALLOW EACH LAYER OF SHOTCRETE TO TAKE INITIAL SET BEFORE APPLYING SUCCEEDING LAYERS.
 - B.D.E. USE RADIAL TEMPLATES TO INSURE EXACT RADII FROM FLAT BOTTOM OF BOWL/PIPE TO FACE OF COPING. TEMPLATE SHALL BE FABRICATED FROM STEEL OR 3/4" MINIMUM PLYWOOD. CHECK EVERY HORIZONTAL FOOT WHEN APPLYING SHOTCRETE FOR CONFORMANCE OF INTENDED WALL RADII. BRACE TEMPLATE AND PLACE LEVELS AT ARC TO TANGENT CONNECTIONS TO INSURE NO KINKS WILL BE FORMED. KINKS AT THE BOTTOM OF BOWLS WILL NOT BE ACCEPTABLE. SLUMPING OF THE SHOTCRETE CAUSING COPING SETBACK WILL NOT BE ACCEPTABLE.
 - B.D.F. REMOVE ANY REBOUND OR ACCUMULATED LOOSE AGGREGATE FROM SURFACES TO BE COVERED PRIOR TO PLACING THE INITIAL OR ANY SUCCEEDING LAYERS OF SHOTCRETE. REBOUND SHALL NOT BE USED AS AGGREGATE.
 - B.E. PLACEMENT AROUND REINFORCEMENT:
 - B.E.A. HOLD THE NOZZLE AT SUCH DISTANCE AND ANGLE TO PLACE MATERIALS BEHIND REINFORCEMENT BEFORE ANY MATERIAL IS ALLOWED TO ACCUMULATE ON ITS FACE.
 - B.E. ACCESS: ALLOW EASY ACCESS TO SHOTCRETE SURFACES FOR SCREEDING AND FINISHING, PERMITTING UNINTERRUPTED APPLICATION.

- 3.14 REMOVAL OF SURFACE DEFECTS IN CONCRETE**
- A. GENERAL: REMOVE AND REPLACE SHOTCRETE WHICH LACKS UNIFORMITY, EXHIBITS SEGREGATION, HONEYCOMBING, OR LAMINATION, OR WHICH CONTAINS ANY DRY PATCHES, SLUGS, VOIDS OR POCKETS. REMOVE DEFECTIVE AREAS.
- 3.15 SHOTCRETE FINISH**
- A. FINISH: ALL EXPOSED SHOTCRETE SURFACES ARE TO BE HARD STEEL TROWEL FINISH UNLESS OTHERWISE NOTED. TROWEL UNTIL ALL VISIBLE POURS ARE CLOSED. CEASE TROWEL BEFORE GLASS FORMS ON SURFACE. DO NOT BROOM FINISH AND DO NOT BURN SURFACE.
 - B. GRINDING THE SURFACES WILL NOT BE AN ACCEPTABLE MEANS OF ACHIEVING THE INTENDED RADI/ANGLE.
 - C. COLOR: ALL SHOTCRETE SURFACES ARE TO BE NATURAL GRAY COLOR UNLESS OTHERWISE NOTED. MINOR VARIATIONS IN APPEARANCE OF COLORED CONCRETE, WHICH ARE SIMILAR TO NATURAL VARIATIONS IN COLOR AND APPEARANCE OF UNCOLORED CONCRETE, ARE ACCEPTABLE. DO NOT BROOM FINISH AND DO NOT TROWEL BURN SURFACE.
 - D. DURING THE CURING PERIOD, CONCRETE SHALL BE MAINTAINED AT A TEMPERATURE ABOVE 40 DEGREES FAHRENHEIT AND IN MOIST CONDITION. FOR INITIAL CURING, CONCRETE SHALL BE KEPT CONTINUOUSLY MOIST FOR 24 HOURS AFTER PLACEMENT IS COMPLETE. FINAL CURING SHALL CONTINUE FOR SEVEN DAYS AFTER PLACEMENT. COVER CONCRETE WITH POLYETHYLENE PLASTIC TO MAINTAIN TEMPERATURE IF NECESSARY. LAP SEAMS IN THE PLASTIC 6" AND WEIGH DOWN.
 - E. THE CONTRACTOR SHALL FIX ALL CRACKS AND DISPLACEMENTS LARGER THAN 1/8" UP TO THE PROJECT COMPLETION.

- 3.16 CONCRETE PROTECTION AND CURING**
- 1. NERAL: PROTECT FRESHLY PLACED CONCRETE FROM PREMATURE DRYING AND EXCESSIVE COLD OR HOT TEMPERATURES. COMPLY WITH ACI 306.1 FOR COLD-WEATHER PROTECTION AND FOLLOW RECOMMENDATIONS IN ACI 305R FORHOT-WEATHER PROTECTION DURING CURING. KEEP MOIST FOR NECESSARY AMOUNT OF TIME TO REACH CONCRETE STRENGTH AND INHIBIT MOISTURE LOSS AFTER PLACING.
 - 2. EVAPORATION RETARDANT: WATERBORNE, MONOMOLECULAR FILM FORMING, MANUFACTURED FOR APPLICATION TO FRESH CONCRETE. SUCH AS EUCOBAR EVAPORATION RETARDANT BY THE EUCLID CHEMICAL COMPANY. APPLY EVAPORATION RETARDANT TO CONCRETE SURFACES IF HOT, DRY, OR WINDY CONDITIONS CAUSE MOISTURE LOSS BEFORE AND DURINGFINISHING OPERATIONS. APPLY TO EXPOSED SURFACE OF CONCRETE ACCORDING TO MANUFACTURERS WRITTEN INSTRUCTIONS AS NECESSARY.
 - 3. BEGIN CURING AFTER FINISHING CONCRETE, BUT NOT BEFORE

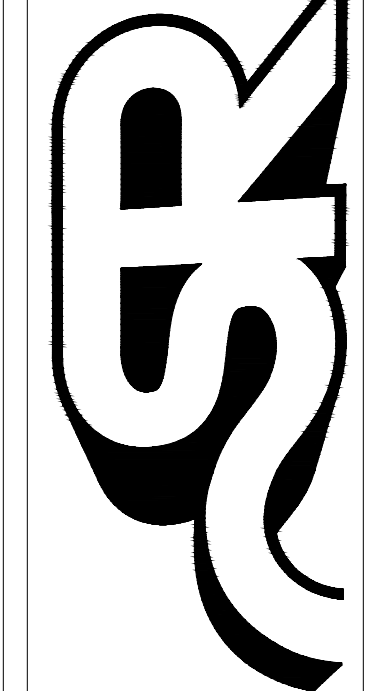
- FREE WATER HAS DISAPPEARED FROM CONCRETE SURFACE.
- 4. CURING METHODS: CURE CONCRETE BY CURING COMPOUND, MOISTURE CURING, MOISTURE-RETAINING-COVER CURING, OR A COMBINATION OF THESE AS FOLLOWS:
 - A. CURING COMPOUND: MEET REQUIREMENTS OF MANUFACTURER'S CURRENT PRINTED APPLICATION INSTRUCTIONS AND COVERAGE RATE CHART. FOR HORIZONTAL APPLICATIONS, IMMEDIATELY APPLY AFTER ALL SURFACE WATER HAS DISAPPEARED AND THE CONCRETE SURFACE IS HARD ENOUGH TO WALK ON. FOR VERTICAL APPLICATIONS, APPLY IMMEDIATELY AFTER REMOVING THE CONCRETE FORMS. APPLY IN A UNIFORM AND CONTINUOUS MANNER. AVOID OVER-APPLICATION OR PUDDLING OF CURING COMPOUND. PROTECT SURFACE FROM WATER, ADJACENT SHOTCRETE WORK, AND DEBRIS.
 - B. MOISTURE CURING: KEEP SURFACES CONTINUOUSLY MOIST FOR NOT LESS THAN SEVEN DAYS WITH THE FOLLOWING MATERIALS:
 - B.A. WATER.
 - B.B. CONTINUOUS WATER-FOG SPRAY.
 - B.C. ABSORPTIVE COVER, WATER SATURATED, AND KEPT CONTINUOUSLY WET. COVER CONCRETE SURFACES AND EDGES, OVERLAP SEAMS MIN. 6" BETWEEN ADJACENT ABSORPTIVE COVERS.
 - C. MOISTURE-RETAINING-COVER CURING:
 - C.A. COVER CONCRETE SURFACES WITH MOISTURE-RETAINING COVER FOR CURING CONCRETE, PLACED IN WIDEST PRACTICABLE WIDTH, WITH SIDES AND ENDS LAPPED AT LEAST 6 INCHES.

- 3.17 CURING MATERIALS**
- 1. ABSORPTIVE COVER:
 - AASHTO M 182, CLASS 2, BURLAP CLOTH MADE FROM JUTE OR KENAF, WEIGHING APPROXIMATELY 9OZ./SQ. YD. DRY.
 - 2. MOISTURE-RETAINING COVER:
 - ASTM C 171, POLYETHYLENE FILM OR WHITE BURLAP-POLYETHYLENE SHEET (BUR LENE).
 - 3. WATER: POTABLE.
 - 4. CURING COMPOUND: ASTM C-309, CLEAR, WATER-BASED, NO VOLATILE, NON-STAINING, MEMBRANE-FORMING, COMPATIBLE WITH SUBSEQUENT CONCRETE TREATMENTS. ACCEPTABLE PRODUCT: W.R. MEADOWS 1100-CLEAR, OR APPROVED EQUAL.

- 3.18 CONCRETE JOINTS**
- A. CLEANING: THE ENTIRE JOINT SHALL BE THOROUGHLY CLEANED AND WETTED PRIOR TO THE APPLICATION OF ADDITIONAL SHOTCRETE.
 - B. REINFORCEMENT: MAKE JOINTS PERPENDICULAR TO THE MAIN REINFORCEMENT. CONTINUE REINFORCEMENT ACROSS JOINTS.
- 3.19 CRACKING**
- A. SAW CUT CONTROL JOINTS AND CONSTRUCTION JOINTS MAY BE SHOWN IN THE CONSTRUCTION DRAWINGS FOR DIAGRAMMATIC PURPOSES ONLY. THE CONTRACTOR MAY, WITH APPROVAL OF THE SKATEPARK DESIGNER, RECOMMEND AND DETAIL ADDITIONAL JOINTS TO HELP PREVENT CRACKING.
 - B. THE CONTRACTOR SHALL FIX ALL CRACKS AND DISPLACEMENTS LARGER THAN 1/8" UP TO PROJECT COMPLETION.

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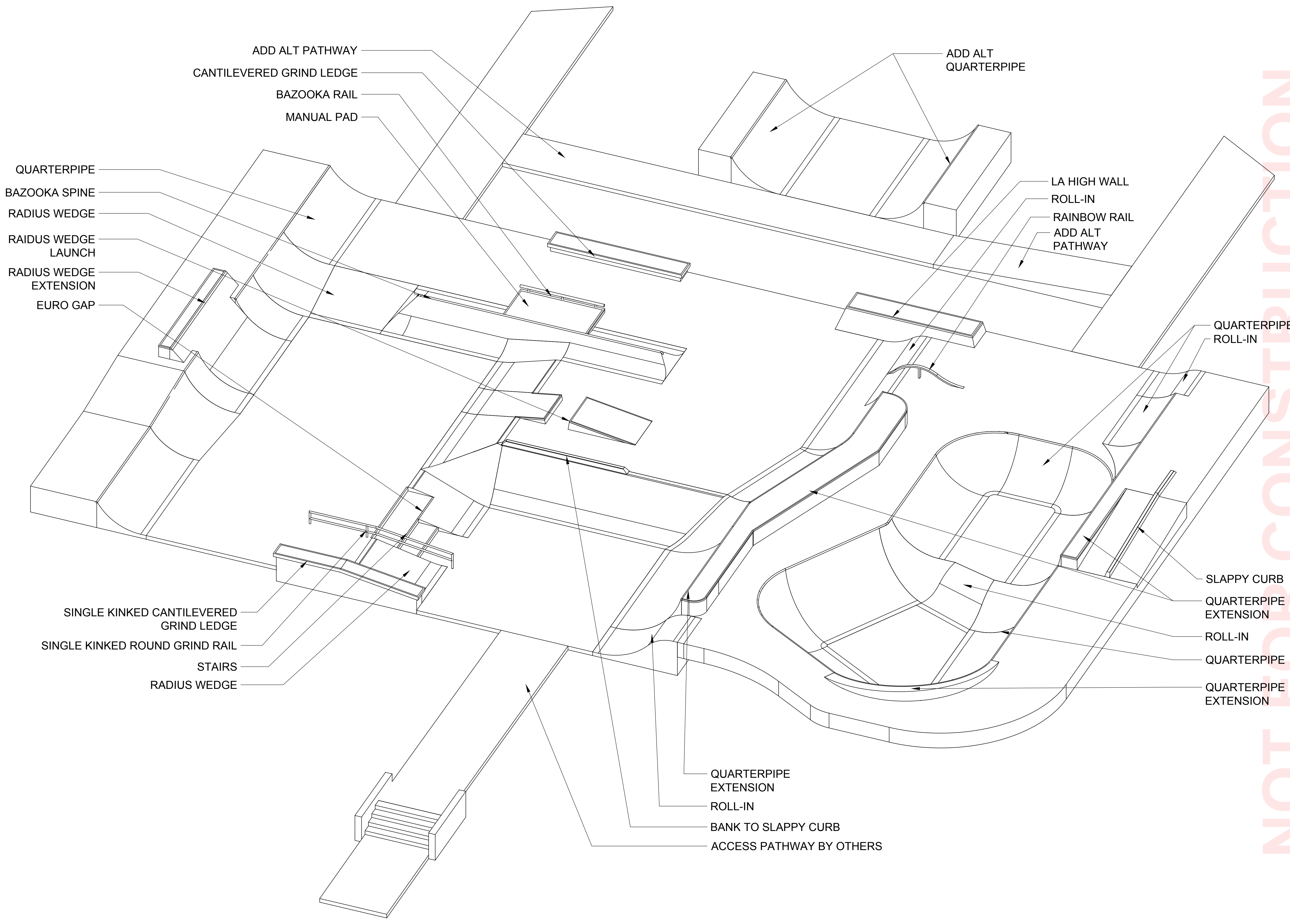
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PROJECT TITLE
CLEMSON PARK SKATEPARK

SHEET TITLE
SPECIFICATIONS

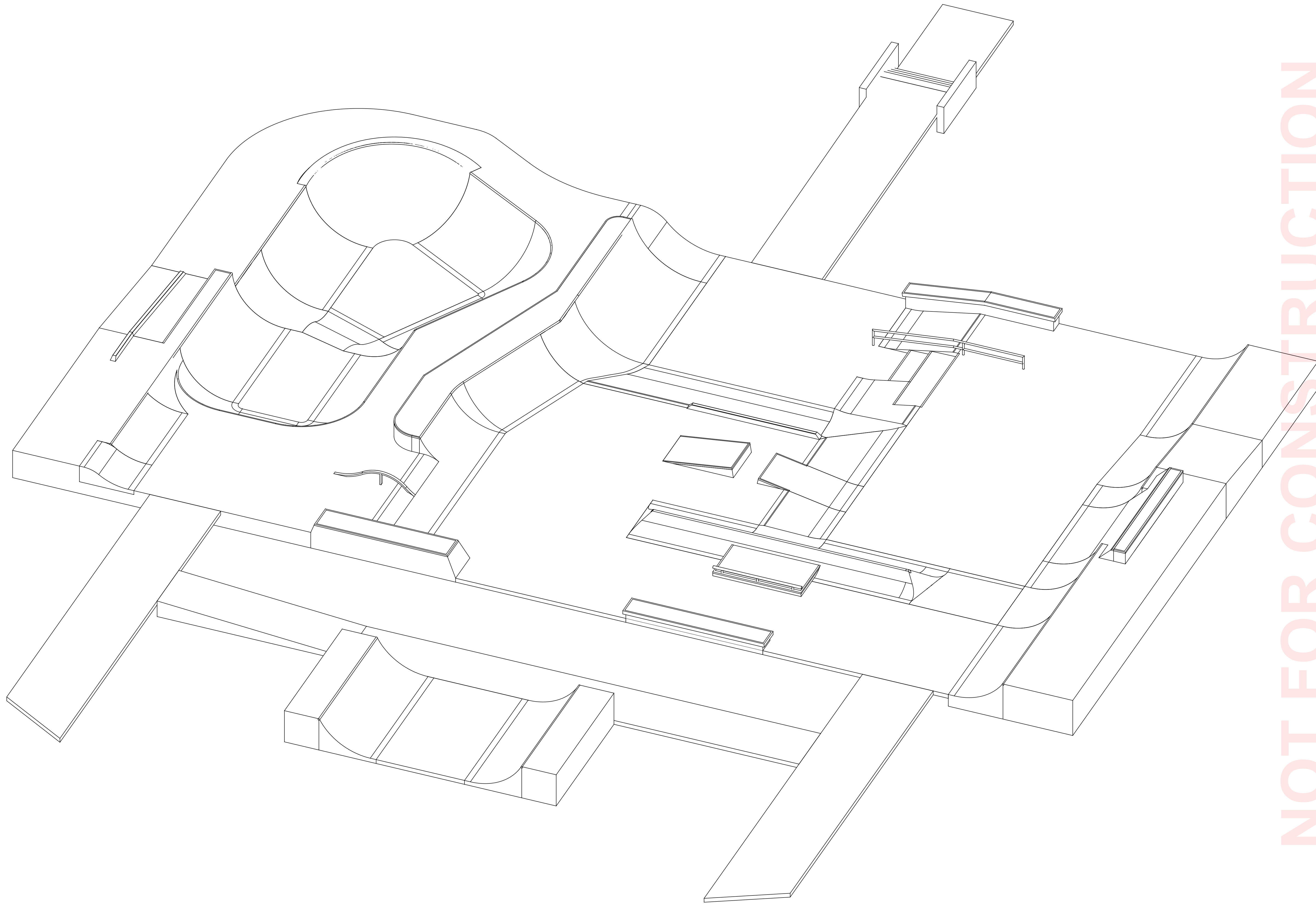
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SK2.1
OF XX





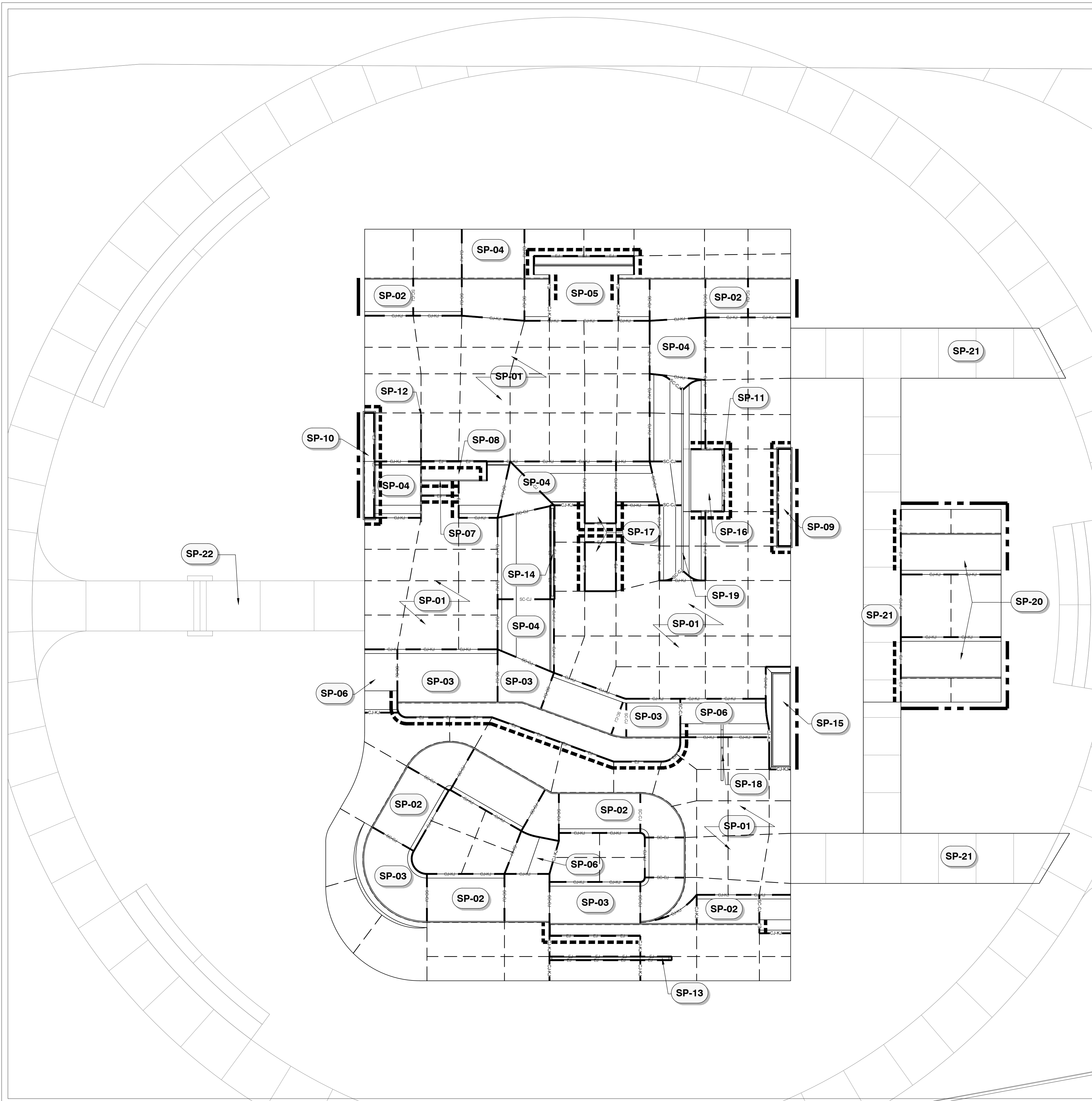
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<p>PROJECT TITLE SK3.0</p>		<p>SPHOIN RANCH SKATE PARKS DESIGN. BUILD. COME TOGETHER. 6824 S. CENTINELA AVE. - LOS ANGELES, CA 90029 OFFICE (626) 330-5803 - FAX (626) 330-5803</p>																													



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PROJECT TITLE CLEMSON PARK SKATEPARK SHEET TITLE 3D PERSPECTIVE		SKATE PARK DESIGNED BY / STAMP: CW DOCUMENTS BY DM / AL PLAN CHECKED BY DH DATE 8/16/2024		REVISIONS <table border="1"> <thead> <tr> <th>NO</th> <th>DATE</th> <th>DESCRIPTION</th> <th>BY</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	NO	DATE	DESCRIPTION	BY																				
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SK3.1 OF XX		The use of these plans shall be restricted to the original site for which they were prepared, and publication thereof is limited to the original site for which they were prepared. No part of these plans or concepts by any method, in whole or part, without express written consent of Spohn Ranch, Inc. is prohibited. Title to these plans and concepts belongs to Spohn Ranch, Inc. without preparation. Visual contact with or reproduction of these plans or concepts constitute acceptance of these restrictions. Copyright © 2019 Spohn Ranch, Inc.																										
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JOINTING SCHEDULE

SYMBOL	DESCRIPTION	QTY	DETAIL
	H-01 EXPANSION JOINT	326 LF	6/SK9.0
	H-02 COLD JOINT OR KEY JOINT	591 LF	8/SK9.0
	H-03 SAWCUT JOINT	1,120 LF	7/SK9.0
	H-04 TURNDOWN EDGE AT FINISH SURFACE	288 LF	4/SK9.0
	H-05 TURNDOWN EDGE AT FINISH GRADE	130 LF	5/SK9.0
	H-06 SC OR CJ - FIELD DETERMINED	250 LF	

INFORMATION SCHEDULE

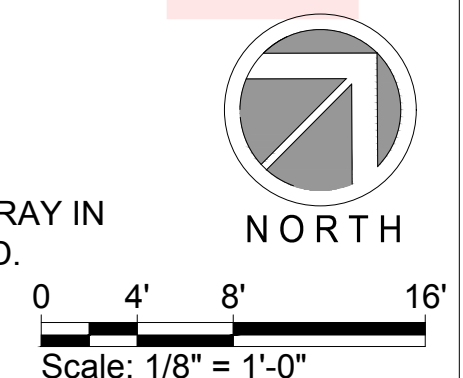
SYMBOL	DESCRIPTION	DETAIL	SECTION
SP-01	5" THICK CONCRETE FLATWORK		
SP-02	QUARTERPIPE	15/SK9.0	1, 4, 5, 24, 31, 33
SP-03	QUARTERPIPE EXTENSION	4/SK9.1	23, 26, 27, 36
SP-04	RADIUS WEDGE	16/SK9.0	2, 6, 15, 19, 21, 34
SP-05	RADIUS WEDGE EXTENSION	2/SK9.1	34
SP-06	ROLL-IN	1/SK9.1	22, 25, 28, 32
SP-07	STAIRS	5/SK9.1	17
SP-08	EURO GAP	3/SK9.1	16
SP-09	CANTILEVERED GRIND LEDGE	1/SK9.2	12
SP-10	SINGLE KINKED CANTILEVERED GRIND LEDGE	9/SK9.1	20
SP-11	BAZOOKA RAIL	4/SK9.2	9A, 9B
SP-12	SINGLE KINKED GRIND RAIL	12/SK9.0	18
SP-13	SLAPPY CURB	2/SK9.2	35A, 35B
SP-14	RADIUS WEDGE TO SLAPPY CURB	3/SK9.2	14A, 14B
SP-15	LA HIGH WALL	8/SK9.1	30A, 30B, 30C
SP-16	MANUAL PAD	7/SK9.1	8
SP-17	RADIUS WEDGE LAUNCH	6/SK9.1	13
SP-18	RAINBOW RAIL	12/SK9.0	29
SP-19	BAZOOKA SPINE	5/SK9.2	7, 10A, 10B, 11
SP-20	ADD ALT QUARTERPIPE	15/SK9.0	38
SP-21	ADD ALT ACCESS PATHWAY		37
SP-22	ACCESS PATHWAY BY OTHERS		

JOINTING NOTES:

1. JOINTING LAYOUT PLAN HAS BEEN DEVELOPED TO PROVIDE GUIDANCE TO THE CONTRACTOR FOR THE USE OF SAWCUTS, COLD + EXPANSION JOINTS. ACTUAL FIELD VARIANCES MAY BE NECESSARY AND WILL TAKE PRECEDENCE OVER THIS GUIDE. A CONTRACTOR SHALL CUT/JOINT CONCRETE AS NEEDED TO HELP MINIMIZE CRACKING AND ENHANCE SKATEABILITY.
2. ALIGN SAWCUTS WITH EXPANSION AND COLD JOINTS AND START FROM CORNERS WHERE POSSIBLE TO HELP MINIMIZE CRACKING. SAWCUTS SHOULD BE APPROXIMATELY 10'x12' AND/OR APPROXIMATELY 120 SQUARE FEET WITH ROUGHLY A 2:1 ASPECT RATIO BETWEEN SAWCUTS AND COLD OR EXPANSION JOINTS.
3. ALL HORIZONTAL SAWCUTS TO BE FILLED WITH SELF-LEVELING POLYURETHANE BASE ELASTOMERIC SEALANT AND TOOLED FLAT. EXPANSION JOINTS AND VERTICAL SAWCUTS TO BE FILLED WITH POLYURETHANE BASED NONSAGGING ELASTOMERIC SEALANT AND TOOLED FLAT. COLOR OF JOINT SEALANT SHOULD RESEMBLE NATURAL COLOR OF CONCRETE (ALUMINUM GRAY / LIMESTONE, OR SIMILAR)
4. ALL JOINTS TO BE FILLED WITH SEALANT, SEE TYPICAL DETAILS FOR MORE INFORMATION.

GENERAL NOTES:

1. THE SLAB CONFIGURATION, NOTES, LOCATION OF EXPANSION JOINTS, COLD JOINTS, SAW CUTS, DETAIL REFERENCES, AND APPLICABLE DETAILS HAVE BEEN INCLUDED FOR CLARITY. JOINTS AND DETAILS SHOWN ARE FOR THE SKATEPARK ONLY. REFER TO THE LANDSCAPE PLANS FOR SCOPES BEYOND THE SKATEPARK.
2. SUGGESTED ORDER OF CONSTRUCTION FOR CONCRETE ELEMENTS WITHIN THE SKATEPARK FOOTPRINT:
 - A. SUBSURFACE DRAINAGE
 - B. SUBGRADE PREP - GRADE, MOISTURE CONDITION, AND COMPACT SKATEPARK FOOTPRINT TO +/- .1' OF SPECIFIED SUBGRADE ELEVATIONS.
 - C. FINE GRADING
 - D. LEDGES AND MANUAL PADS
 - E. BANKS AND TRANSITIONS
 - F. GRIND RAIL FOOTING INSTALLATION
 - G. FLOOR SLAB/FLATWORK
3. ALL EXPOSED CONCRETE AND SHOTCRETE SURFACES TO BE NATURAL GRAY IN COLOR WITH HARD STEEL TROWEL FINISH UNLESS OTHERWISE SPECIFIED.



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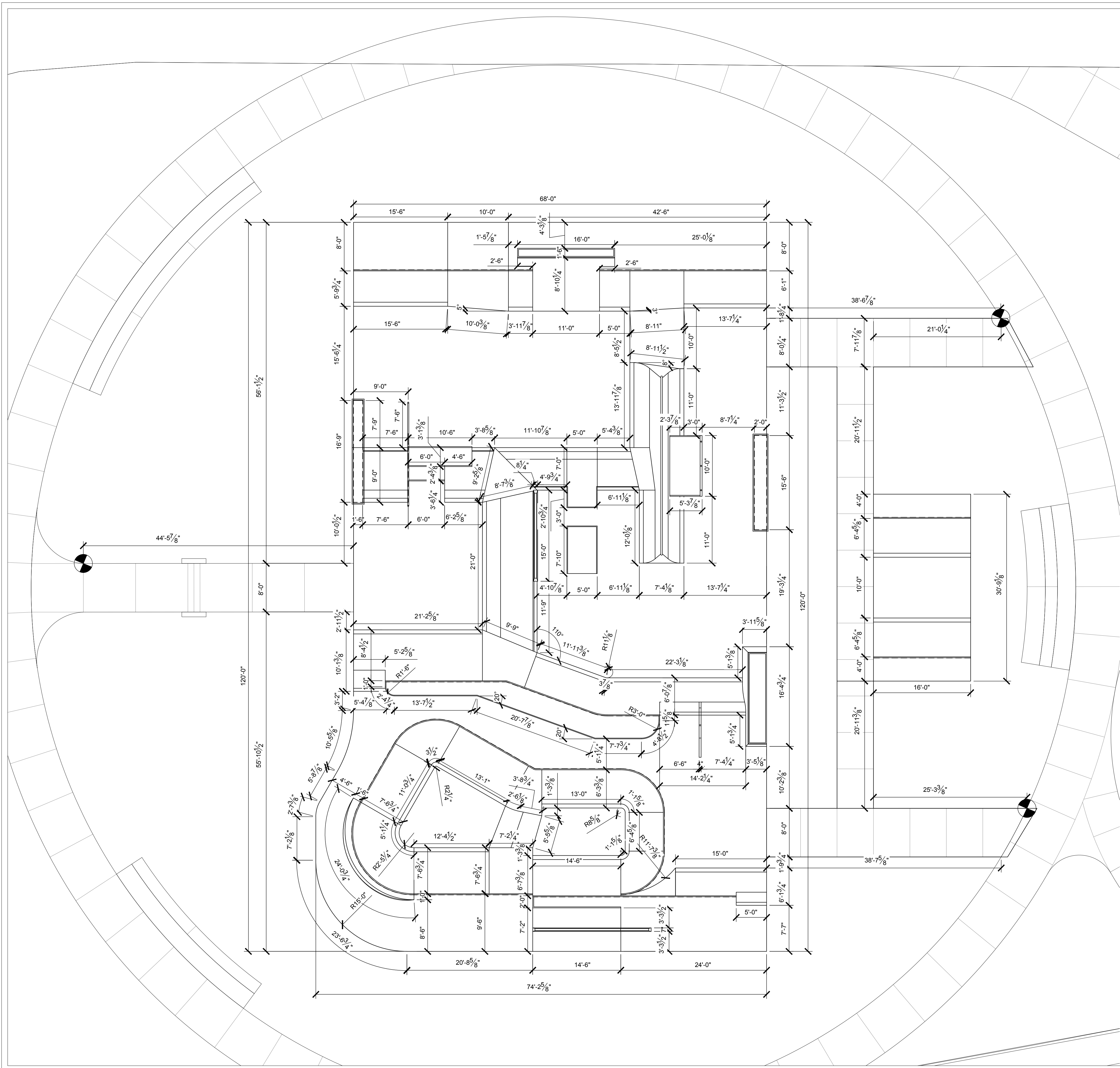
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 PLAN CHECKED BY: DH
 DATE: 8/16/2024

PROJECT TITLE: CLEMSON PARK SKATEPARK
 SHEET TITLE: INFORMATION PLAN
 SHEET: SK4.0
 OF XX



CONSTRUCTION NOTES:

1. ALL MATERIAL AND WORKMANSHIP SHALL CONFORM TO ALL APPLICABLE GOVERNING CODES AND ORDINANCES.
2. ALL FORMS AND ALIGNMENTS OF PAVING, LAYOUT, AND SPECIAL PAVING AREAS SHALL BE REVIEWED AND APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO POURING (GIVE A MINIMUM OF 24 HOURS NOTICE)
3. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PUBLIC IMPROVEMENTS, INCLUDING UNDERGROUND UTILITIES PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR SHALL REPAIR AND/OR REPLACE IN-KIND ALL PUBLIC IMPROVEMENTS DAMAGED, BROKEN, OR REMOVED DURING CONSTRUCTION
4. ALL REBAR CROSSINGS TO BE TIED.
5. ALL CONSTRUCTION TO BE PLUMB AND TRUE, UNLESS OTHERWISE NOTED OR INDICATED.
6. THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS AT THE JOB SITE. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE SKATE PARK DESIGNER, OWNER/BUILDER OR OWNER'S REPRESENTATIVE.
7. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL CONSTRUCTION METHODS AND FOR SAFETY CONDITIONS AT THE WORK SITE.
8. ALL BRACING, TEMPORARY SUPPORTS, SHORING, ETC.. ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
9. OBSERVATION VISITS TO THE JOB SITE BY THE SKATE PARK DESIGNER OR OWNER, DO NOT INCLUDE INSPECTION OF CONSTRUCTION PROCEDURES. THE VISIT SHALL NOT BE CONSTRUED AS CONTINUOUS AND DETAILED INSPECTIONS.
10. CONDITIONS NOT SPECIFICALLY SHOWN SHALL BE CONSTRUCTED SIMILAR TO THE DETAILS FOR THE RESPECTIVE MATERIALS.
11. THE DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED CONSTRUCTION PRODUCT. THESE DOCUMENTS, ALTHOUGH PREPARED WITH CARE AND DILIGENCE, MAY CONTAIN ERRORS, OMISSIONS, CONTRADICTIONS, ETC. THE CONTRACTOR SHALL REVIEW ALL DOCUMENTS THOROUGHLY AND SHALL NOTIFY THE SKATE PARK DESIGNER IMMEDIATELY UPON ANY SUCH DISCOVERY OR DISCREPANCY. GOVERNING CODES SHALL THEN APPLY.
12. ALL SCALE DIMENSIONS ARE APPROXIMATE. WRITTEN DIMENSIONS AND DETAILS TAKE PRECEDENCE OVER SCALED DIMENSIONS. THE CONTRACTOR SHALL CHECK AND VERIFY ALL SITE DIMENSIONS PRIOR TO PROCEEDING WITH WORK AND CLARIFY WITH SKATE PARK DESIGNER, OWNER IF NECESSARY.
13. DESIGN, MATERIAL, EQUIPMENT AND PRODUCTS OTHER THAN THOSE DESCRIBED OR INDICATED ON DRAWINGS MAY BE CONSIDERED FOR USE. APPROVAL FOR SUBSTITUTIONS SHALL BE OBTAINED FROM THE SKATE PARK DESIGNER.
14. SHOP DRAWINGS SHALL BE SUBMITTED BY THE CONTRACTOR FOR THE CLARIFICATION OF DESIGN CONCEPT DETAILS & SUBSTITUTIONS.
15. DURING WORK AND THROUGH ITS COMPLETION, THE CONTRACTOR SHALL KEEP THE SITE CLEAN TO THE SATISFACTION OF THE OWNER.
16. FINAL MATERIAL, FINISHES AND COLOR SHALL BE APPROVED BY OWNER AND SKATE PARK DESIGNER PRIOR TO INSTALLATION.
17. CLEAN-UP SHALL TAKE PLACE ON A DAILY BASIS.
18. REFER TO SPECIFICATIONS FOR ANY ADDITIONAL INFORMATION.

****ALL COLD JOINTS AT THE BOTTOM OF ALL RADIUS TRANSITIONS & RADIUS BANKS SHALL BE LOCATED 8" MAX. FROM THE POINT OF TANGENCY. SEE TYPICAL DETAILS FOR CLARIFICATION.**



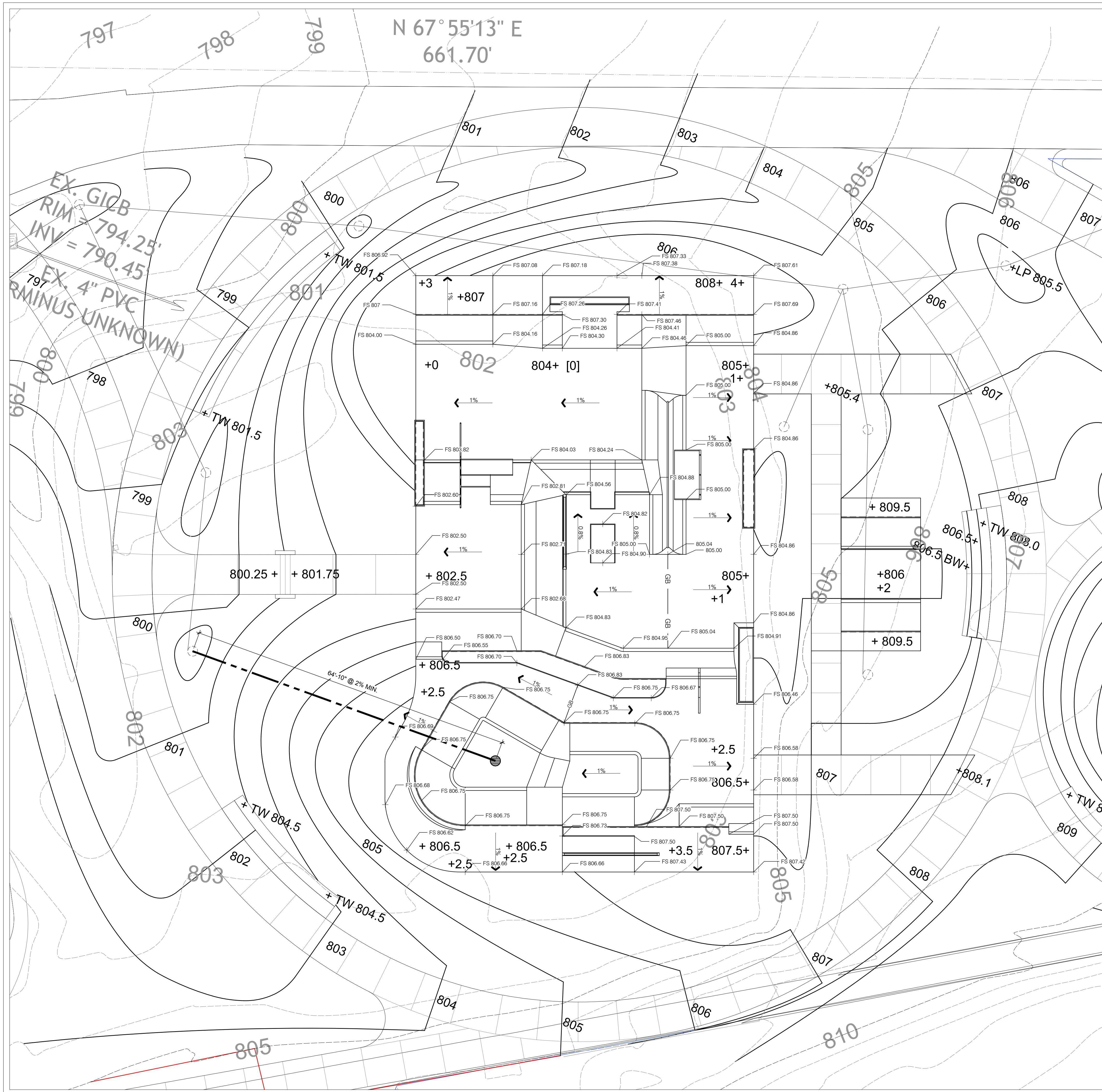
0 4' 8' 16'
Scale: 1/8" = 1'-0"

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PROJECT TITLE: **CLEMSON PARK SKATEPARK**
SHEET TITLE: **LAYOUT PLAN**
SHEET: **SK5.0**
DATE: 8/16/2024
OF XX



N 67° 55'13" E
661.70'

DRAINAGE SCHEDULE

SYMBOL	DESCRIPTION	QTY	DETAIL
(L-01)	AREA DRAIN	1	2/SK9.0
(L-02)	4" SDR 35 DRAIN LINE	65 LF	

GRADING NOTES

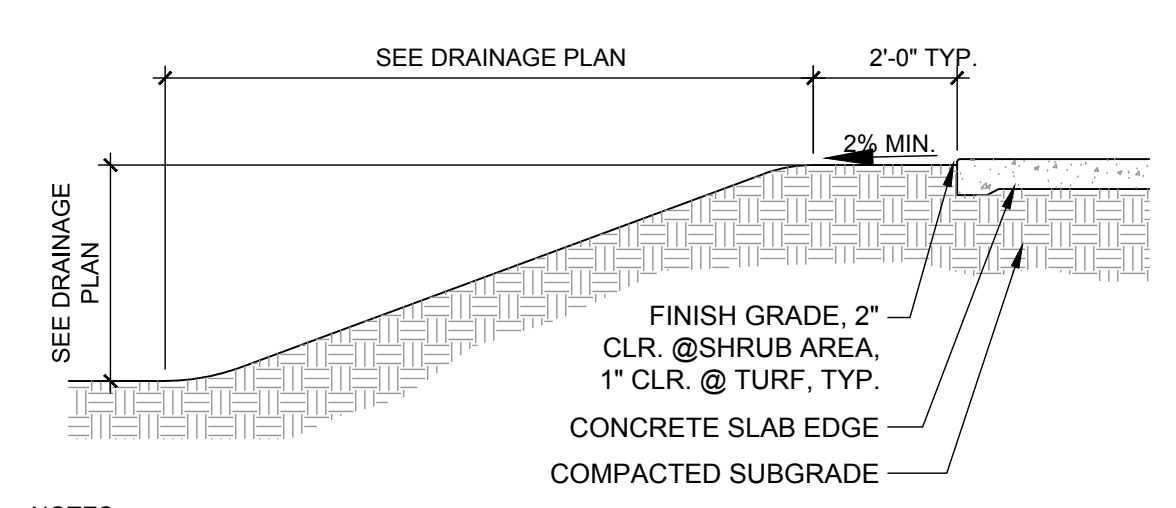
- ALL GRADING SHALL BE IN ACCORDANCE WITH THE LOCAL GRADING CODE AND ANY SPECIAL REQUIREMENTS OF THE GRADING PERMIT.
- CONTRACTOR TO VERIFY GRADES AND NOTIFY OWNER'S CONSTRUCTION ADMINISTRATOR PRIOR TO START OF GRADING WORK.
- SLOPES SHALL BE NO STEEPER THAN 3' HORIZONTAL TO 1' VERTICAL (3:1) AND SHALL HAVE NOT LESS THAN 90% COMPACTION OUT TO THEIR FINISH SURFACES.
- ALL PAVED AREAS SHALL SLOPE AS SHOWN ON PLANS WITH A 2% MAXIMUM FALL. PLANTED AREAS SHALL HAVE A MINIMUM 2% FALL.
- FINISH GRADE SHALL HAVE A UNIFORM SURFACE, FREE OF LUMPS, BUMPS AND DEPRESSIONS AND ANY OBJECTS THAT MAY PREVENT A POSITIVE FLOW TO DRAIN.
- ALL PROPOSED PAVING SURFACES SHALL MEET EXISTING PAVING SURFACES WITH SMOOTH AND CONTINUOUS TRANSITIONS AND FLUSH ALONG ENTIRE EDGE.
- CONCRETE WALKS TO HAVE A MAXIMUM CROSS SLOPE OF 2% AND SHALL MEET ALL CITY AND COUNTY REQUIREMENTS.
- PRIOR TO CONSTRUCTION, CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS, EXISTING DRAINAGE STRUCTURES, PARKING LOT IMPROVEMENTS, AND FINISH FLOOR ELEVATIONS. NOTIFY THE OWNER'S CONSTRUCTION ADMINISTRATOR IMMEDIATELY UPON NOTING ANY DISCREPANCIES.
- FINISH GRADE AT TURF AREAS SHALL BE ONE INCH BELOW FINISH SURFACE OF SIDEWALKS, CURBS OR PAVED AREAS. PLANTING AREA FINISH GRADE SHALL BE 2" BELOW SAME UNLESS OTHERWISE SPECIFIED.
- ALL CONSTRUCTION AREAS SHALL BE FREE OF ROCK, DEBRIS, ETC. ALL EXISTING WEEDS SHALL BE REMOVED.
- CONTRACTOR SHALL MEET EXISTING GRADE AT GRADING LIMITS WITH A SMOOTH AND CONTINUOUS TRANSITION.

GRADING LEGEND:

- EXISTING CONTOURS
- PROPOSED CONTOURS
- GB --- PROPOSED GRADE BREAK
- XXX.XX FS PROPOSED ELEVATIONS
- PROPOSED FLOW DIRECTION

- BS BOTTOM OF STEP
- FG FINISH GRADE
- FS FINISH SURFACE
- HP HIGH POINT
- INV INVERT ELEVATION (MAY CHANGE IN FIELD)
- PA PLANTING AREA
- TD TOP OF DRAIN
- TL TOP OF LEDGE
- TP TOP OF PAD
- TR TOP OF RAIL
- TS TOP OF STEP

XXXXX EXISTING ELEVATION (VERIFY IN FIELD)



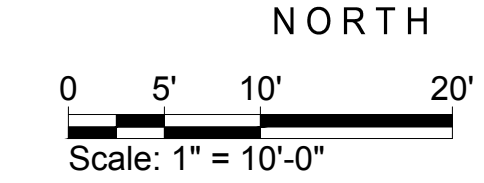
NOTES
1. TYPICAL SLOPE DETAIL FOR INFORMATIONAL PURPOSES ONLY. ALL SLOPE GRADING AND DRAINAGE SHALL CONFORM TO APPROVED GRADING PLAN.

TYPICAL SLOPE FACTORS

1:1	2:1	3:1	4:1	5:1
1'	2'	3'	4'	5'

1 TYPICAL SLOPE DETAIL
3/4" = 1'-0"

P-PIP-CLEMSON-34



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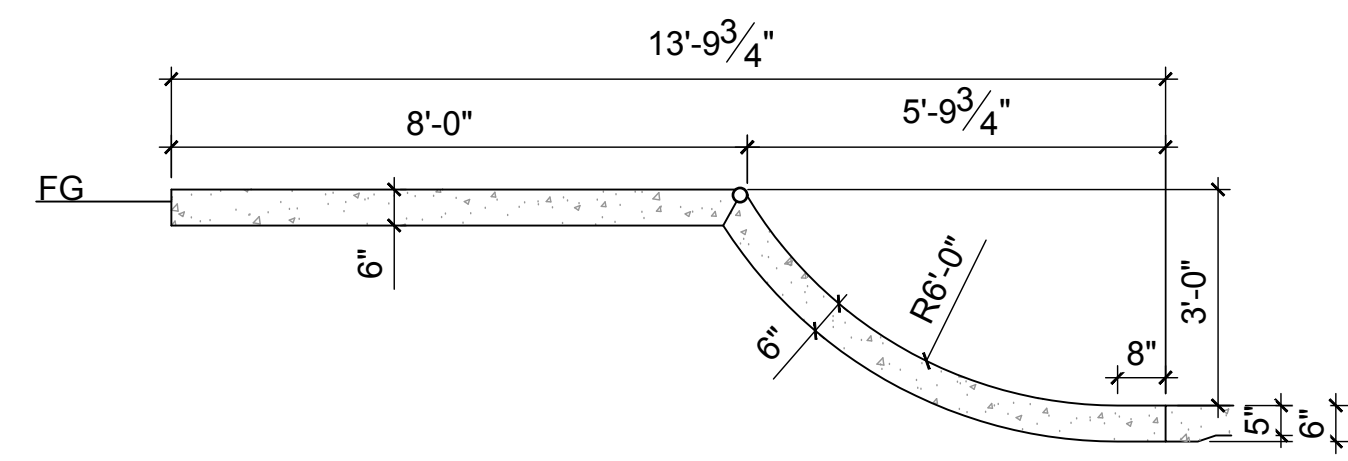
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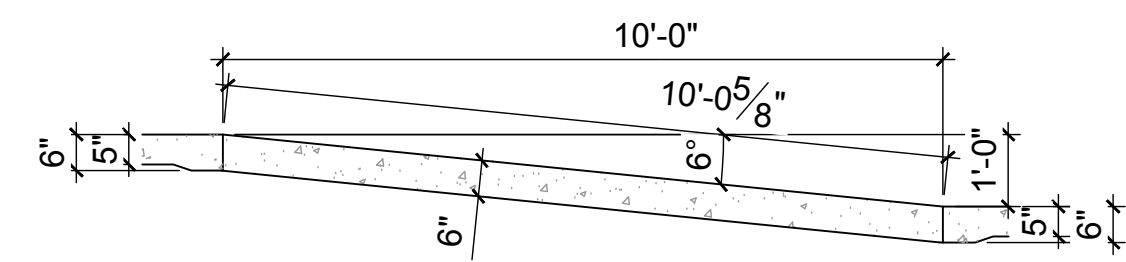
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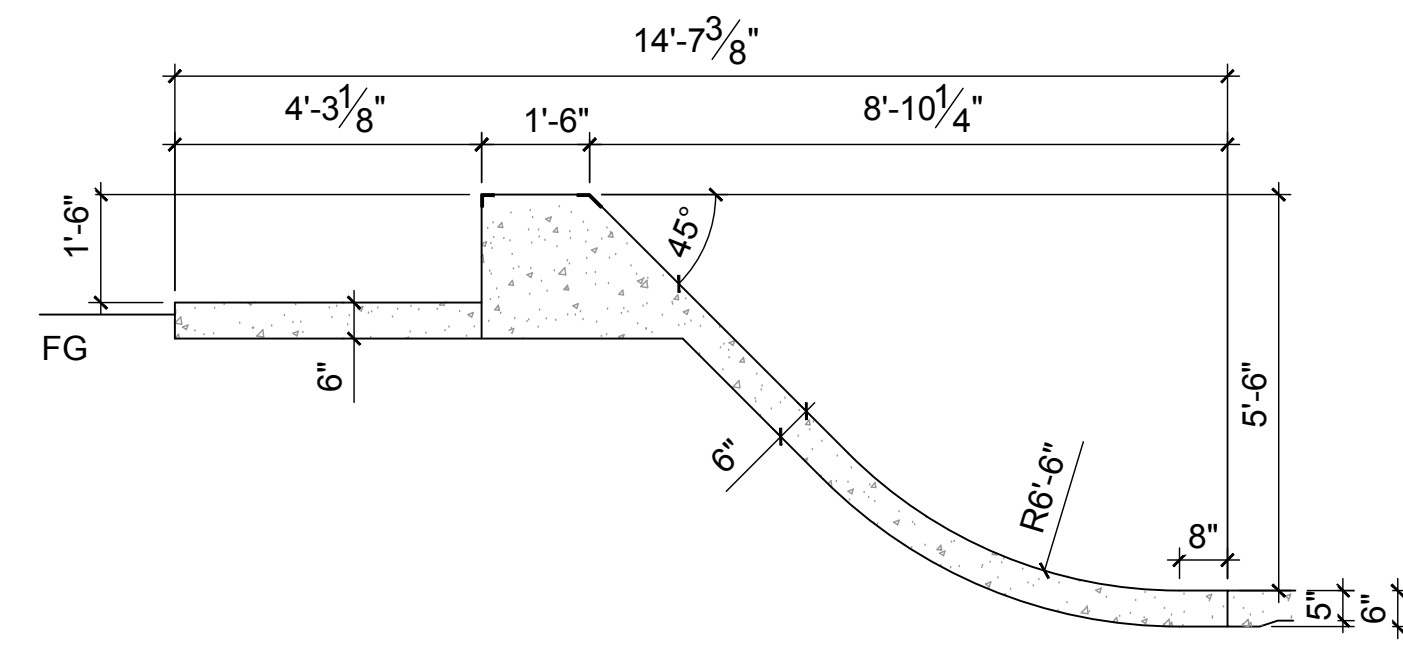
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SHEET TITLE: GRADING + DRAINAGE PLAN
SHEET: SK6.0 OF XX



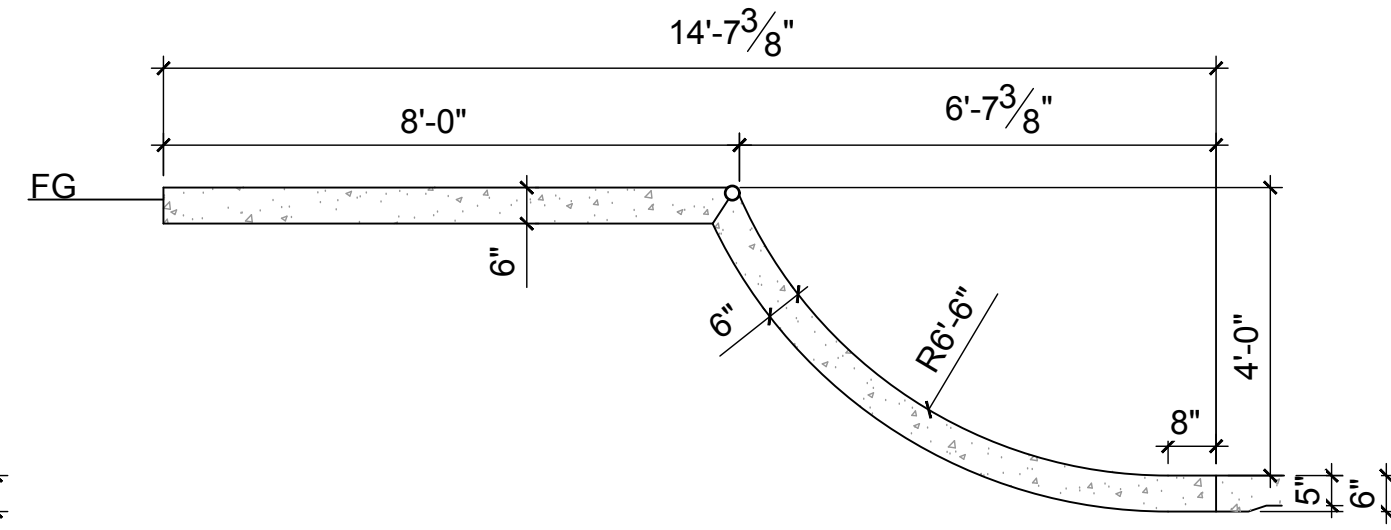
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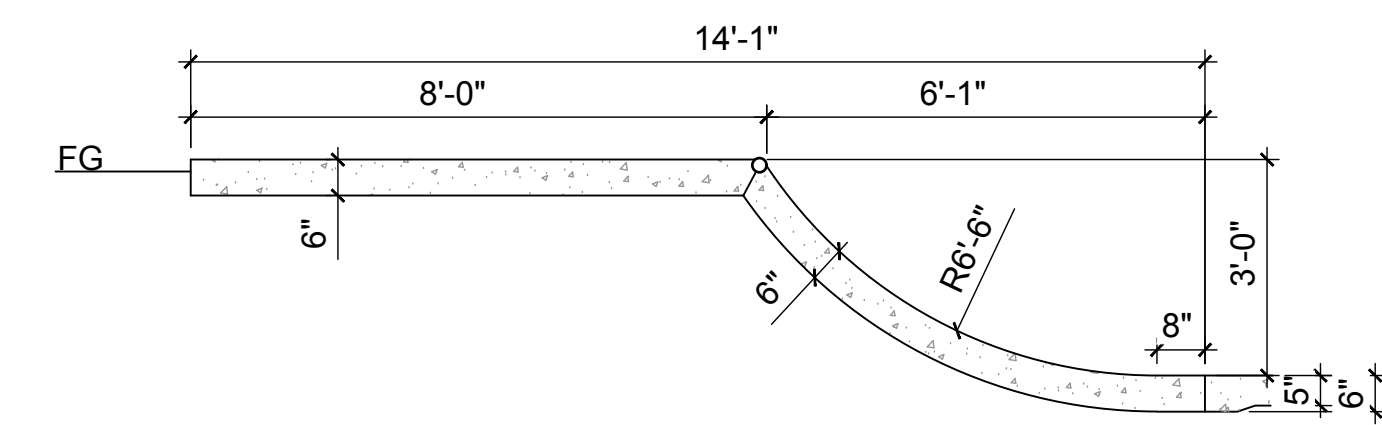
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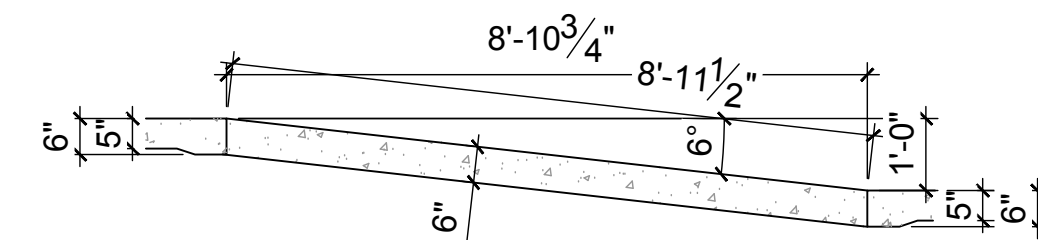
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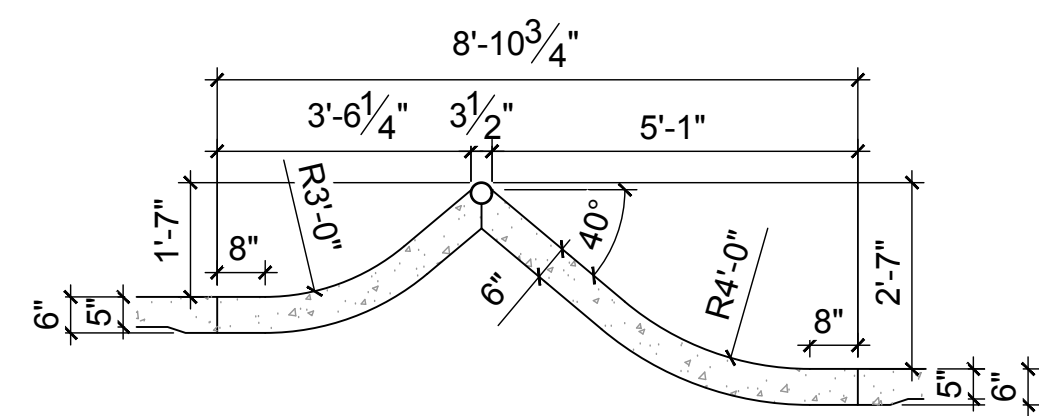
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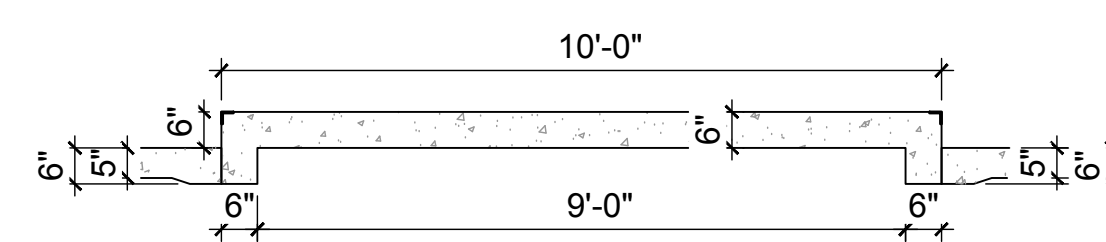
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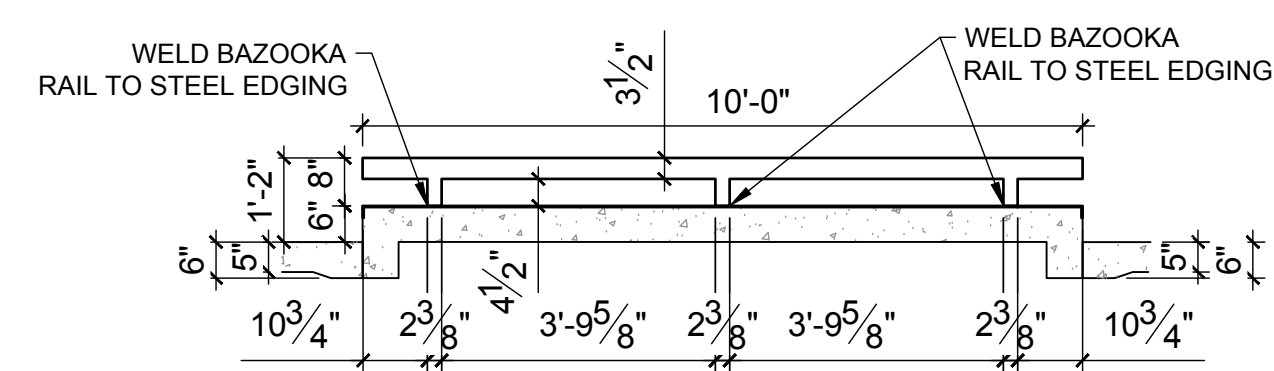
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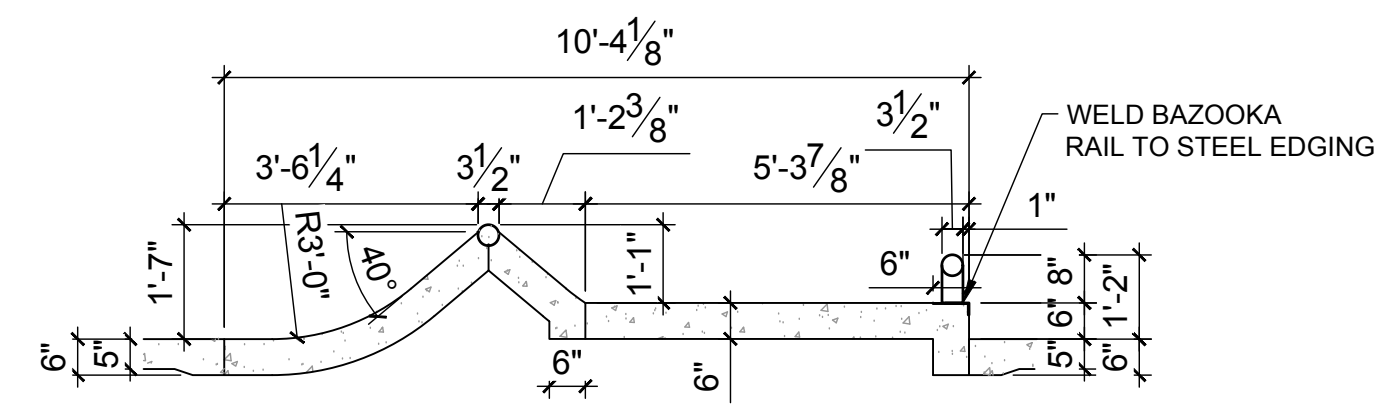
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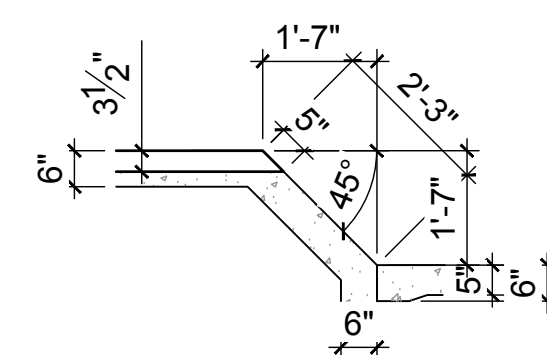
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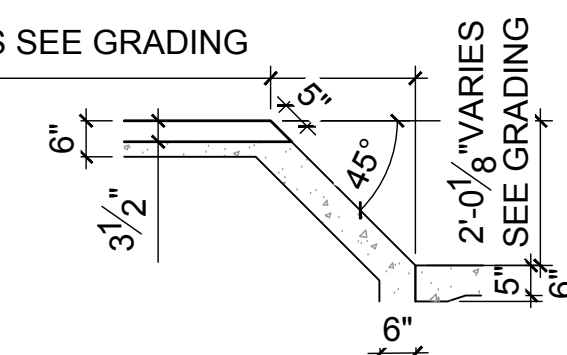
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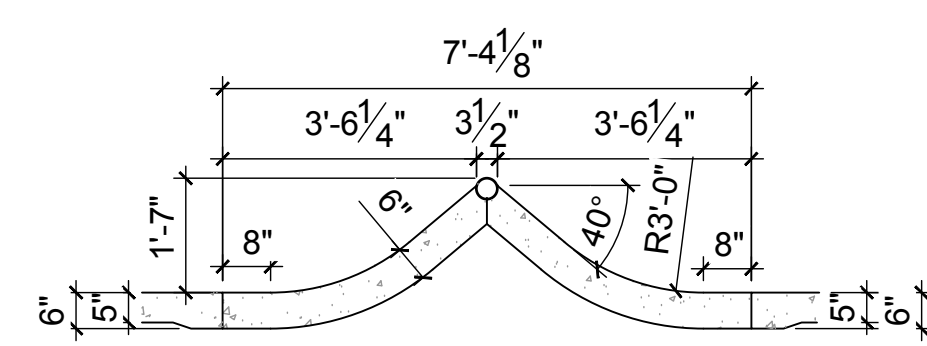
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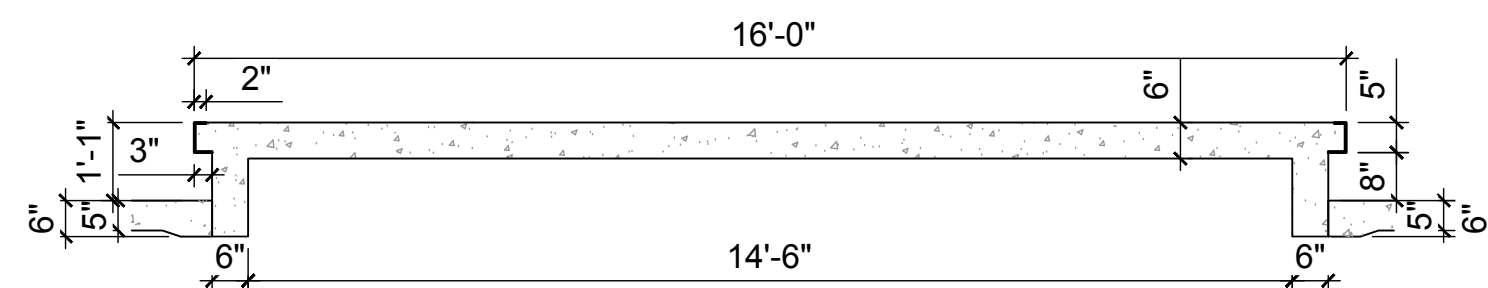
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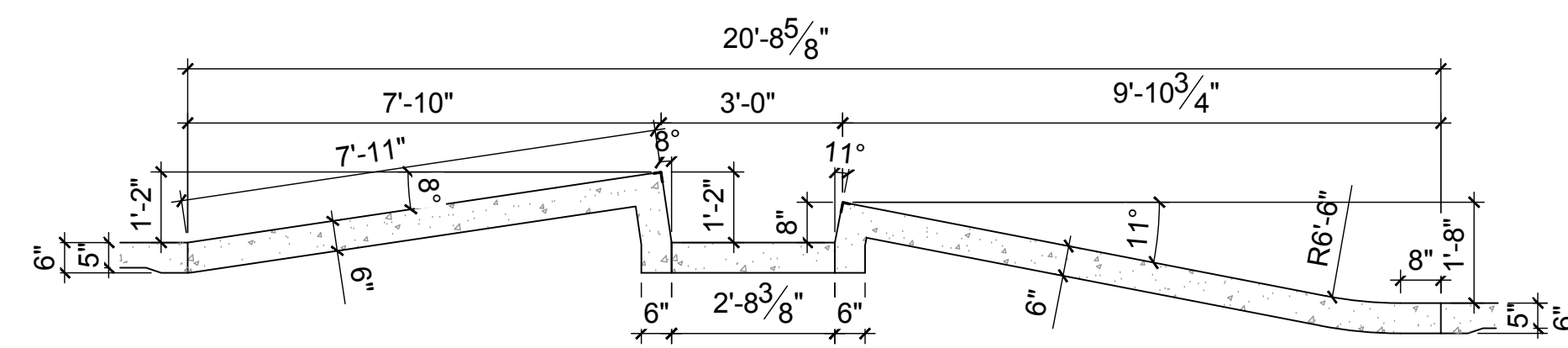
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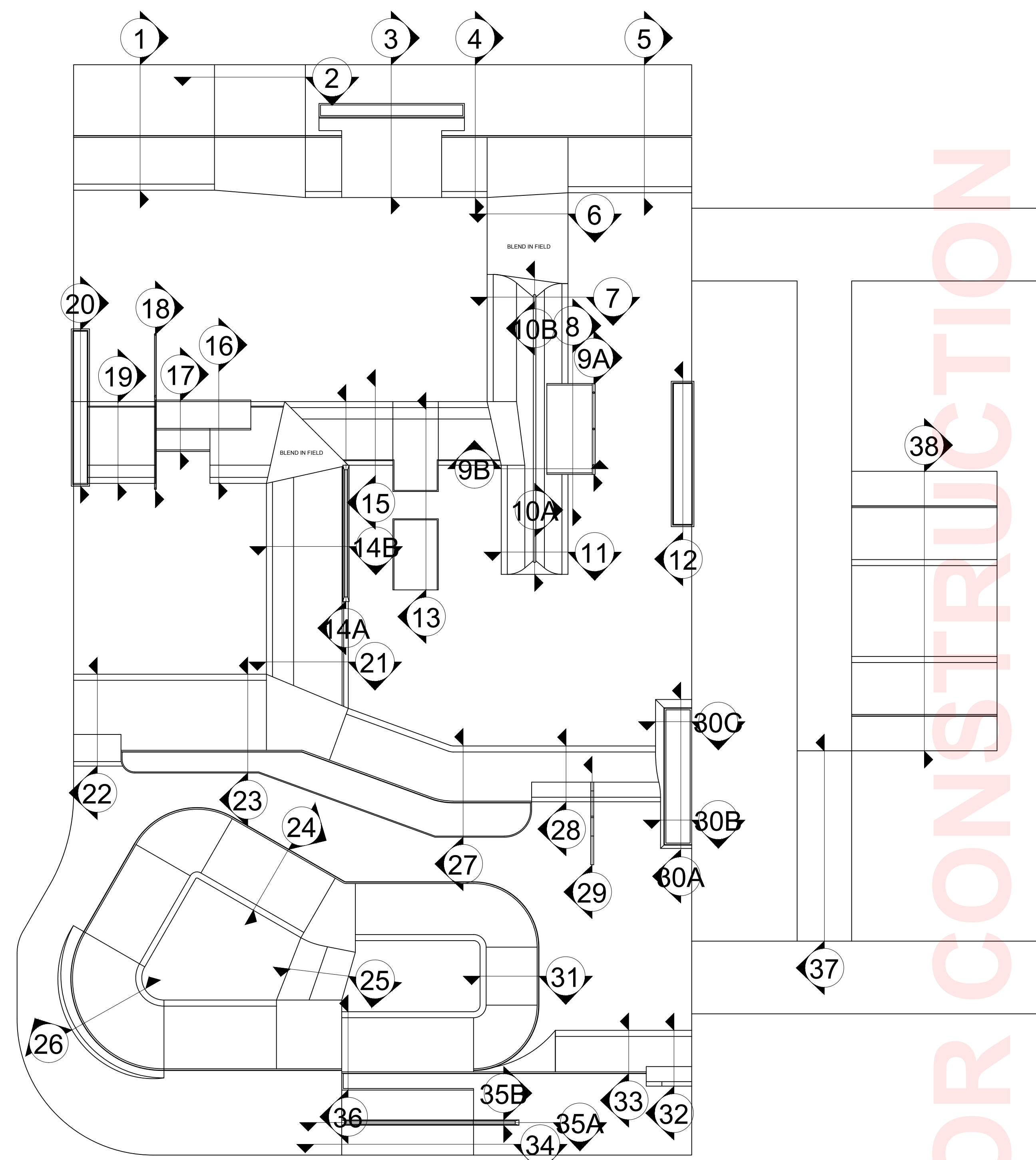
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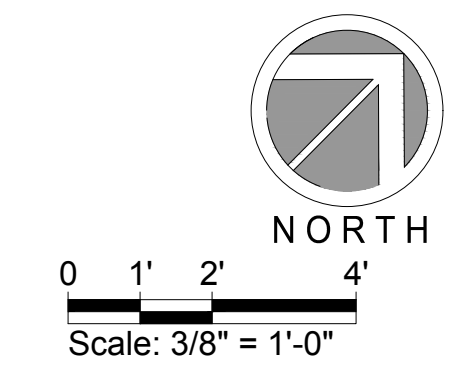
SECTION 12



SECTION 13



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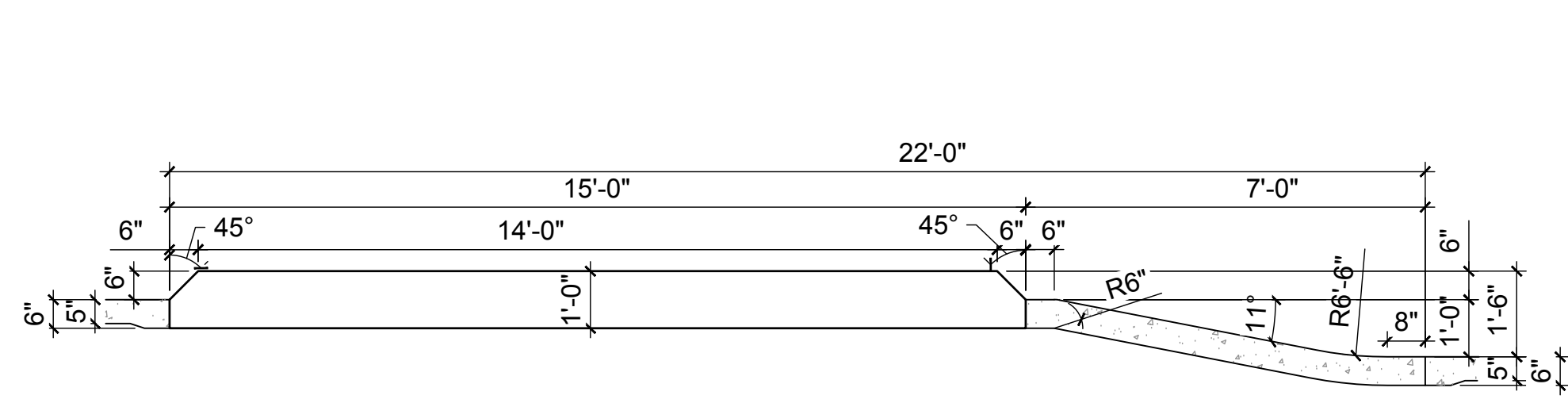
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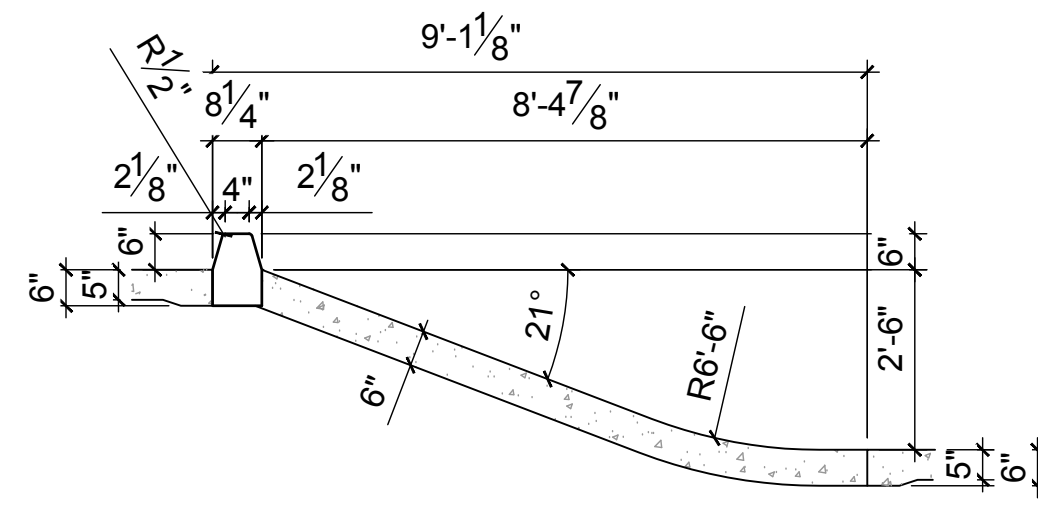
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SKATE PARK DESIGNED BY: STAMP: CW
 DOCUMENTS BY: DM / AL
 PLAN CHECKED BY: DH
 DATE: 8/16/2024

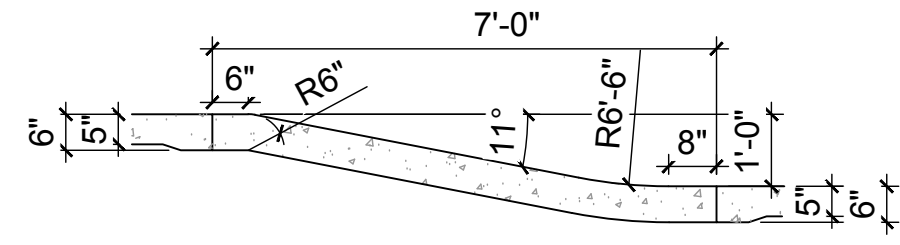
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 SHEET TITLE: SECTIONS
 SHEET: SK8.0
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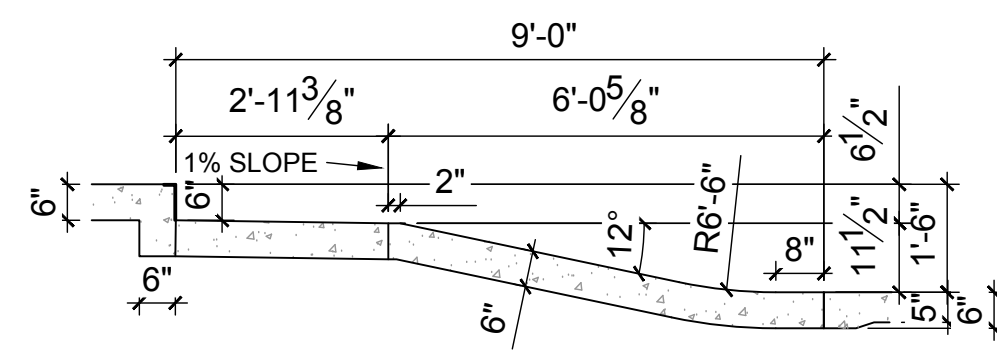
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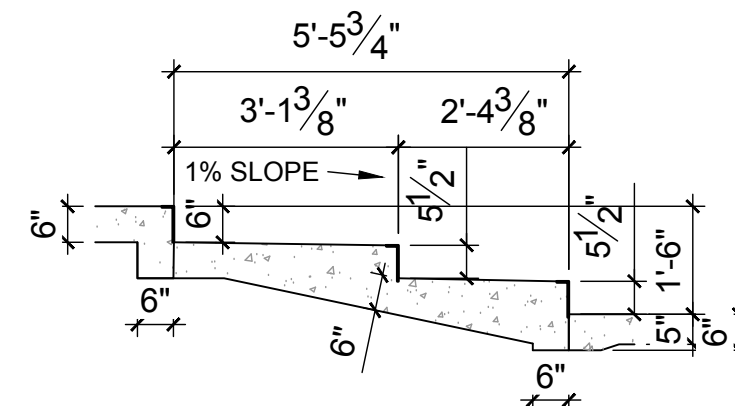
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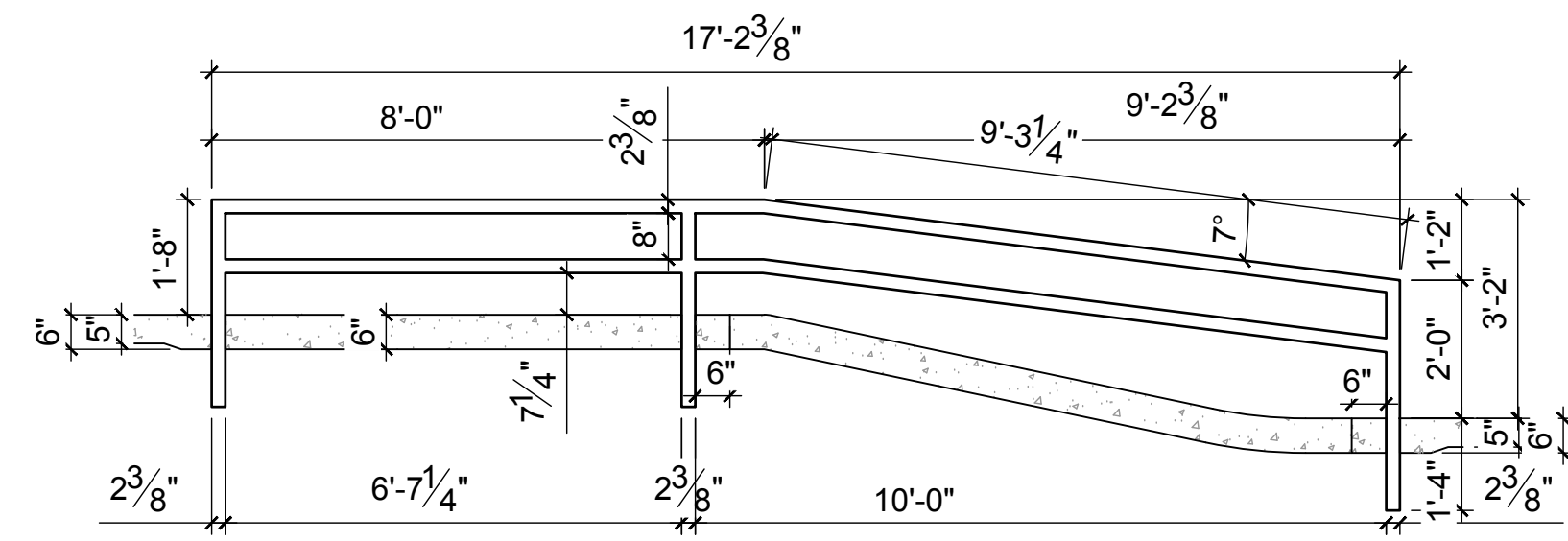
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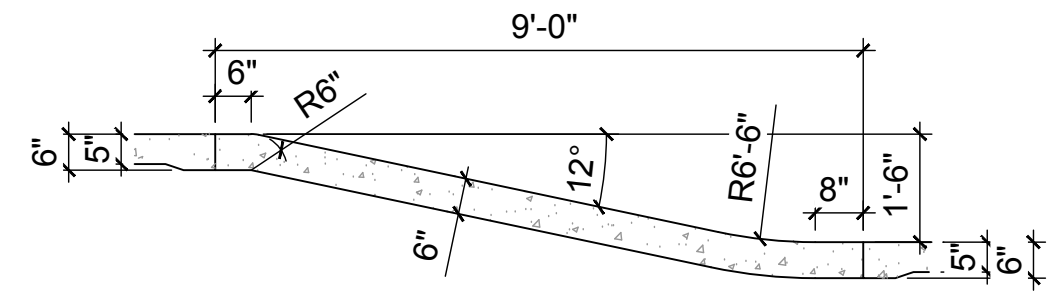
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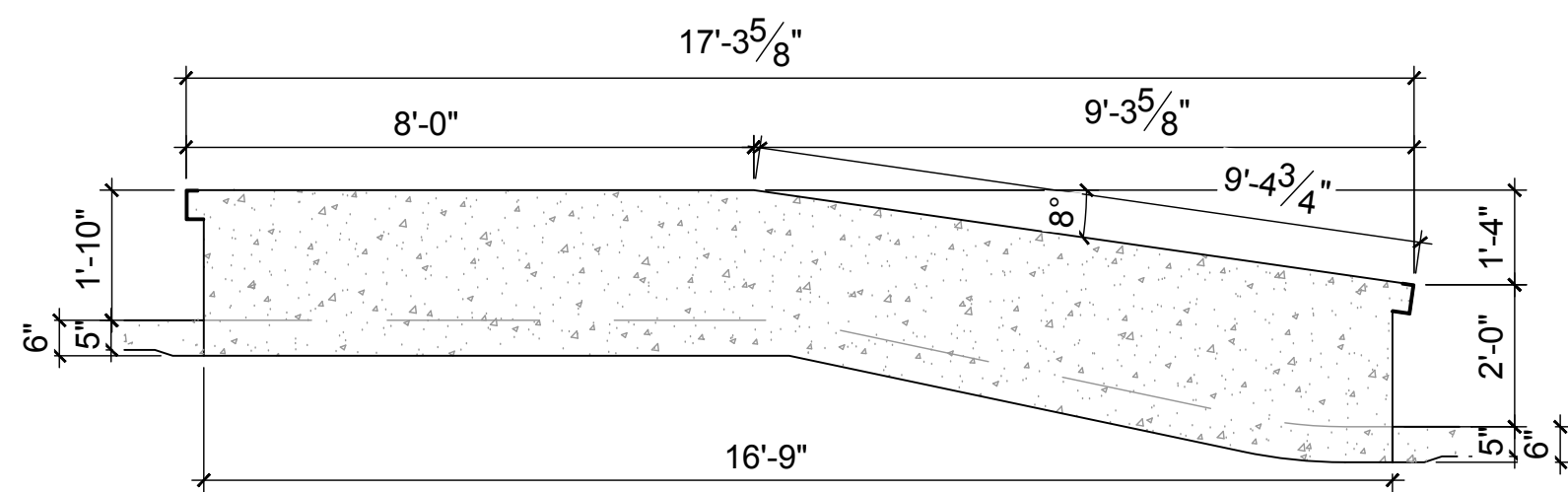
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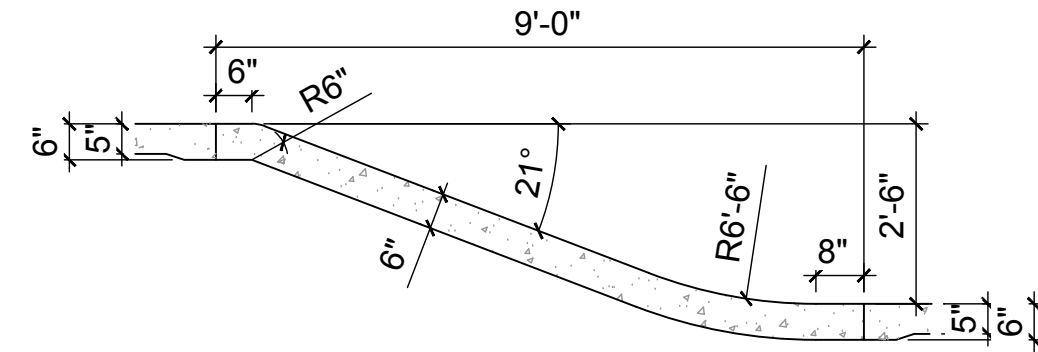
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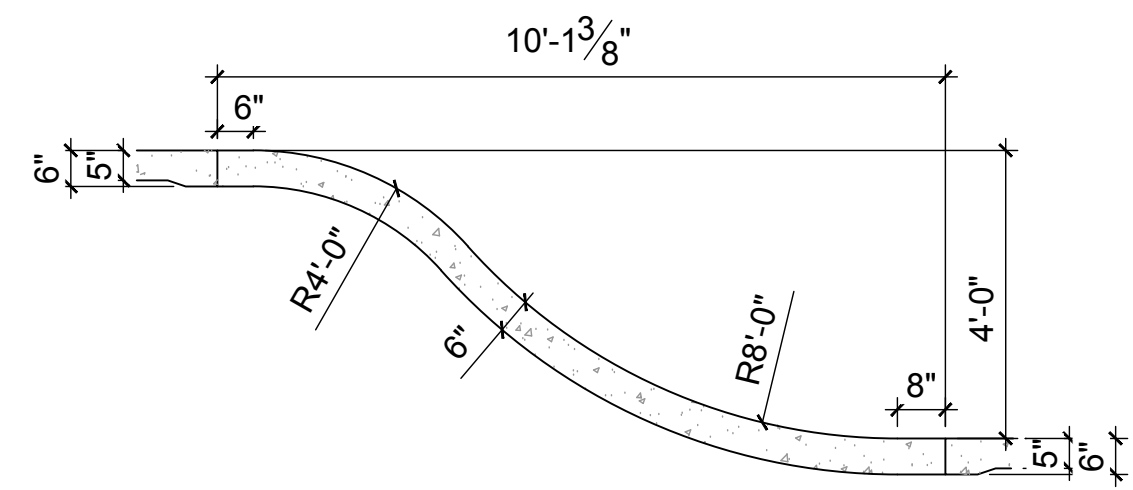
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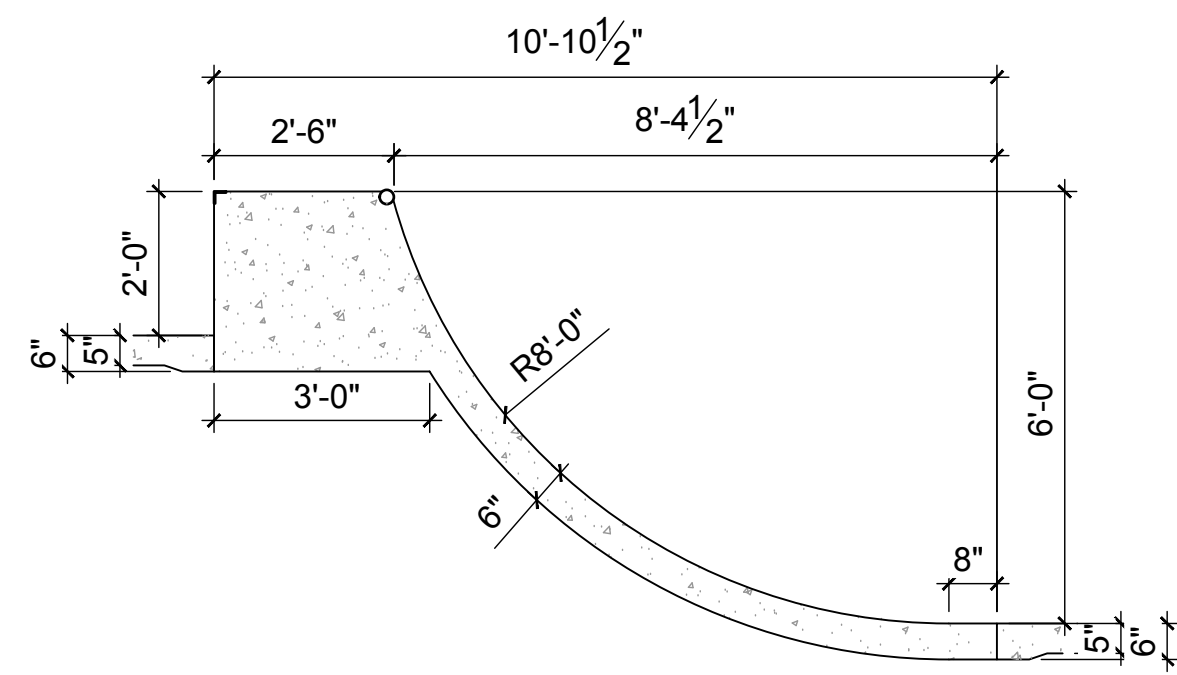
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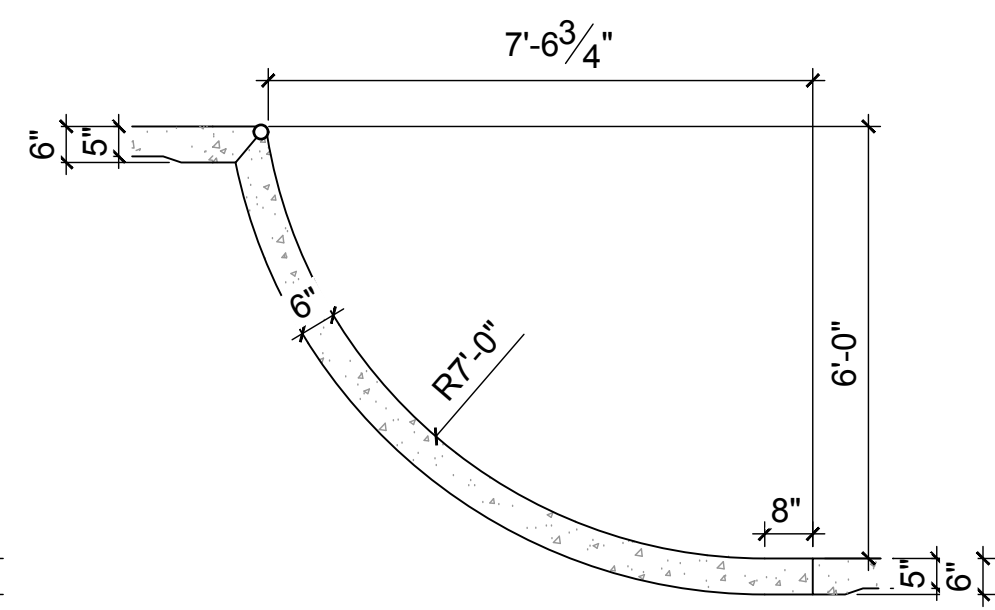
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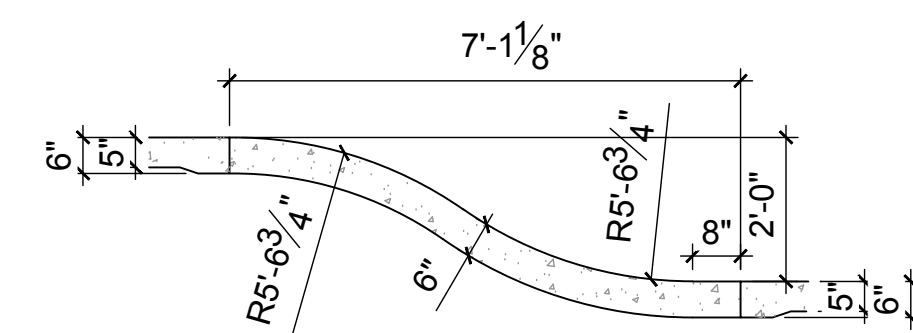
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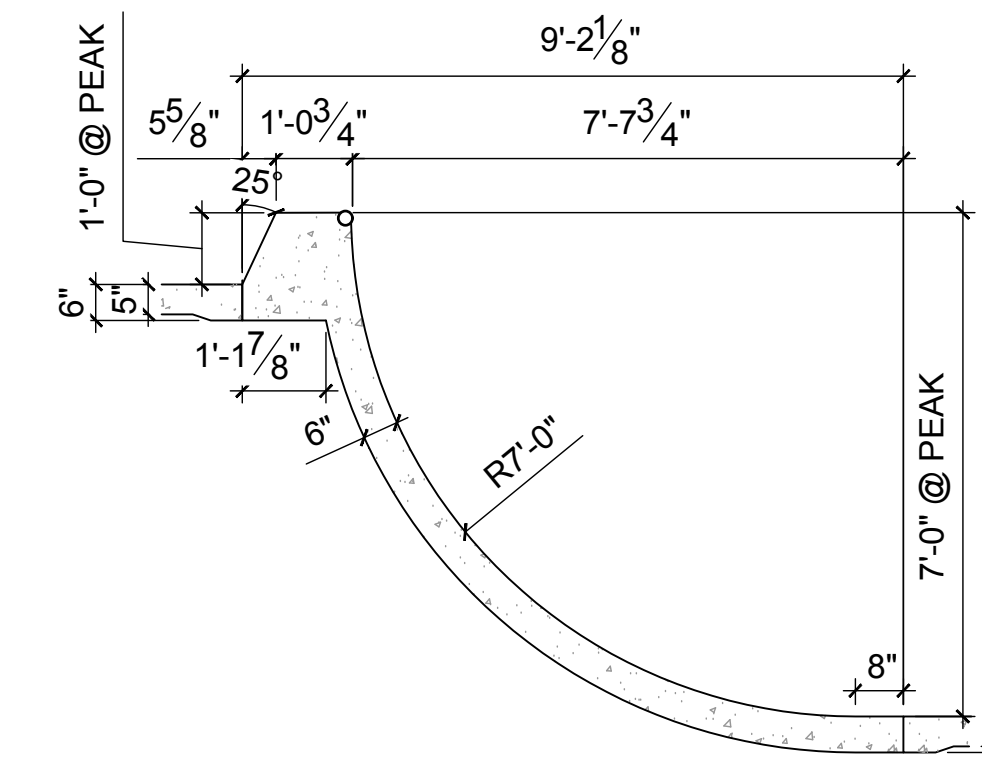
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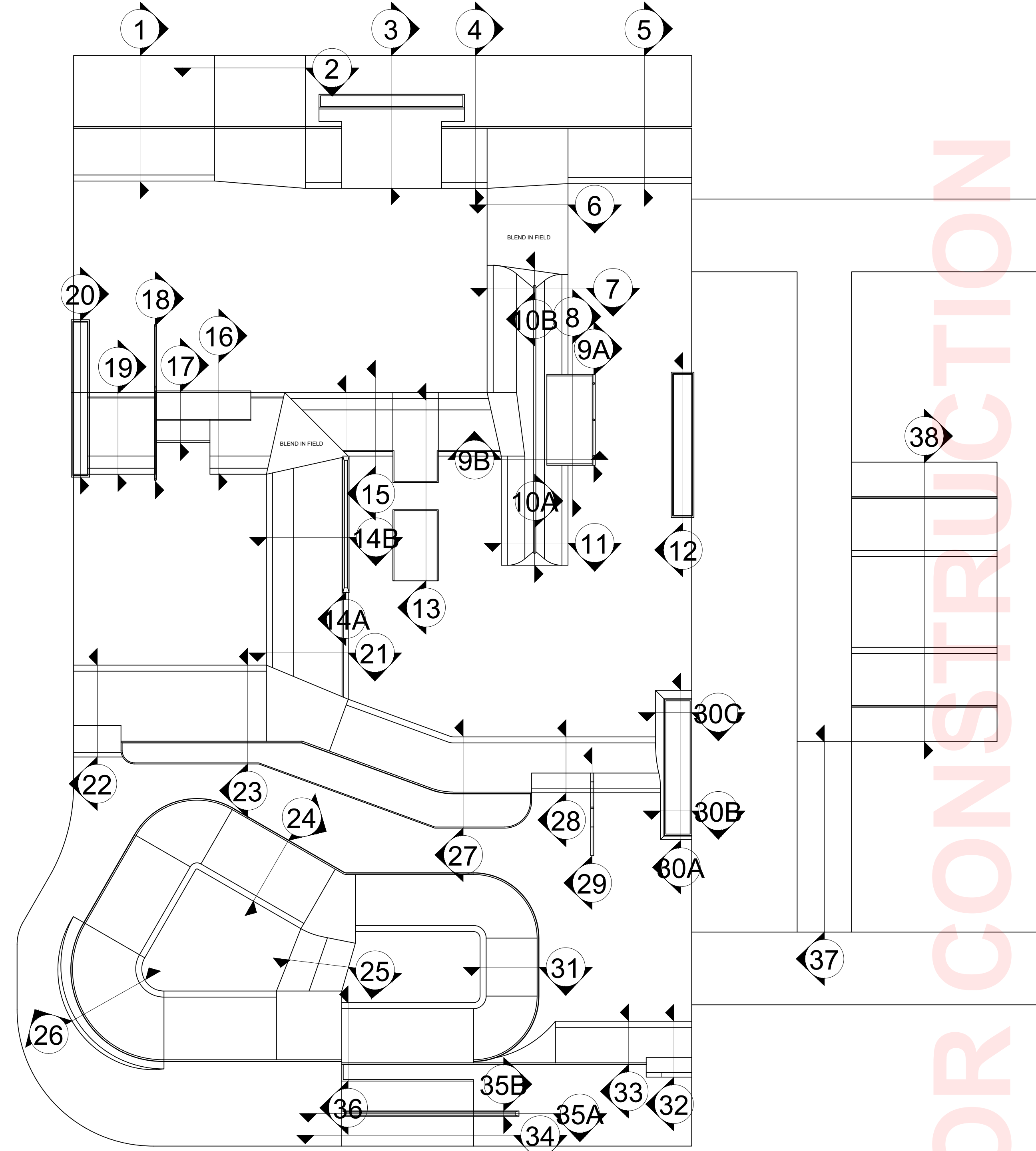
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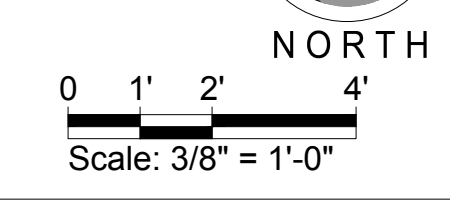
SECTION 25



SECTION 26



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PLAN CHECKED BY

DH

DATE

8/16/2024

PROJECT TITLE

CLEMSON PARK SKATEPARK

SHEET TITLE

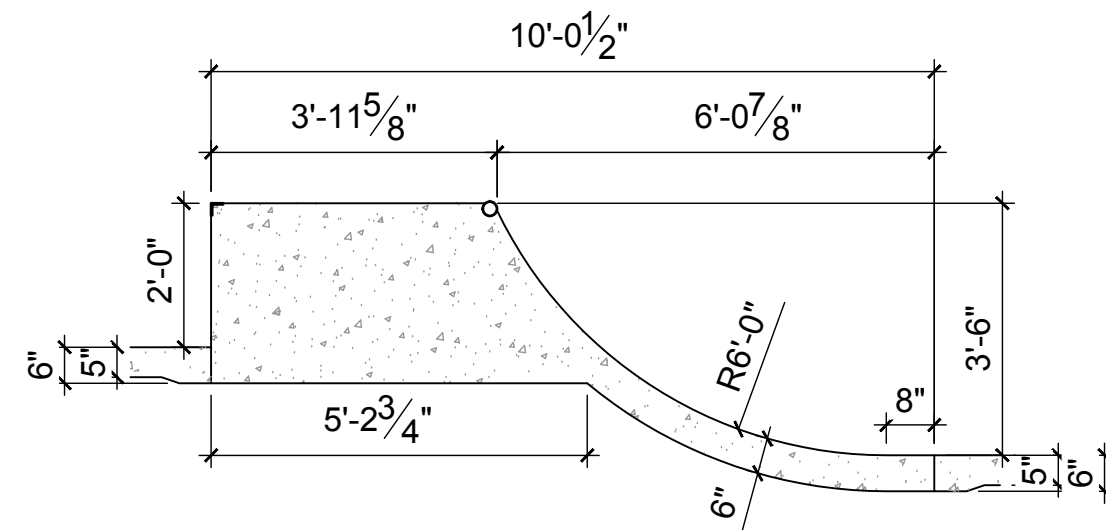
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SHEET

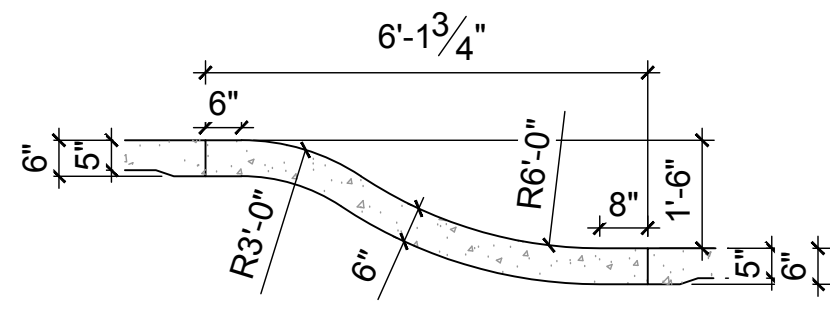
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OF XX

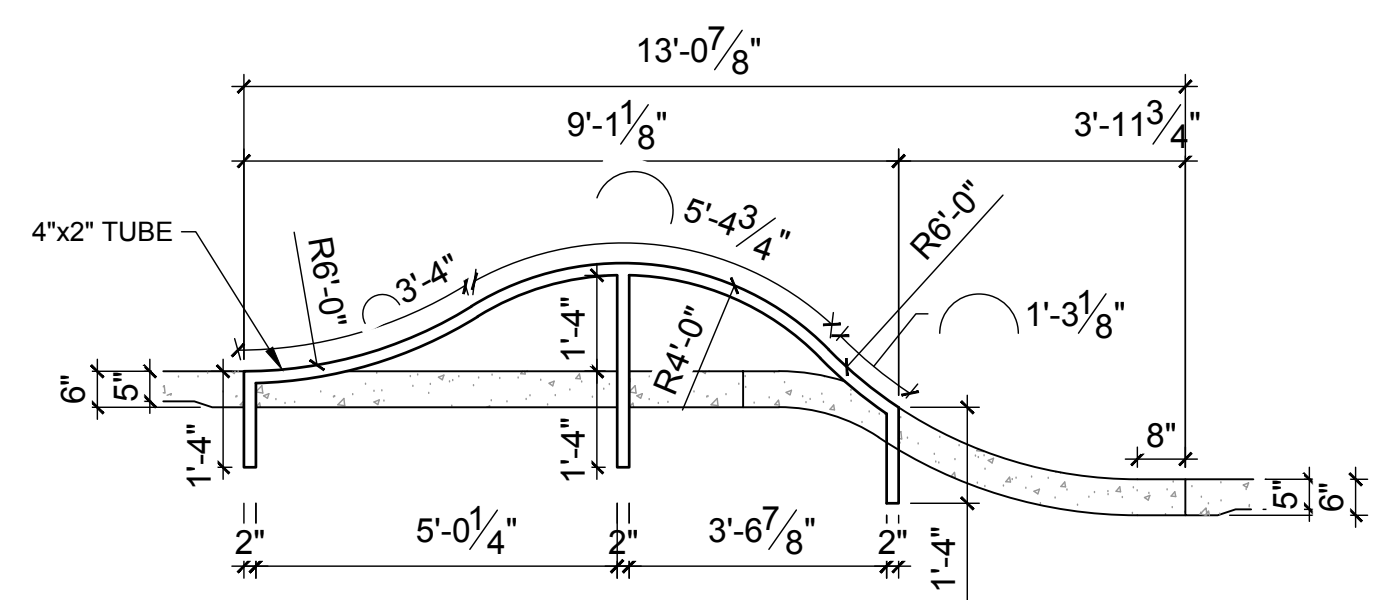
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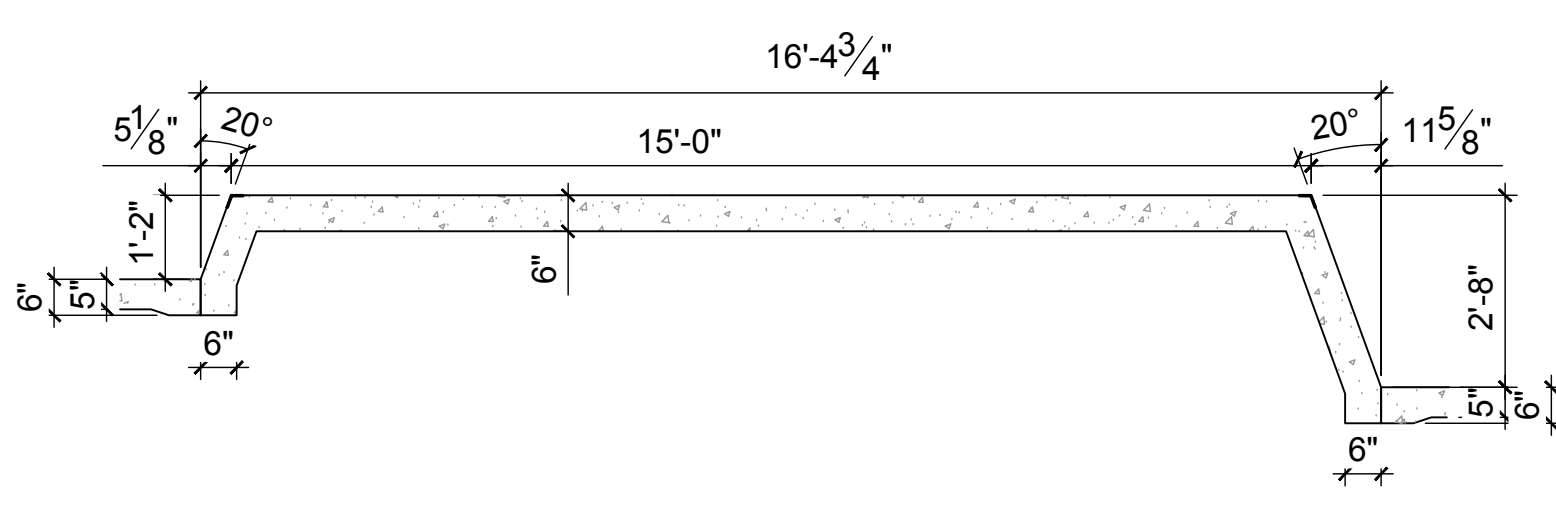
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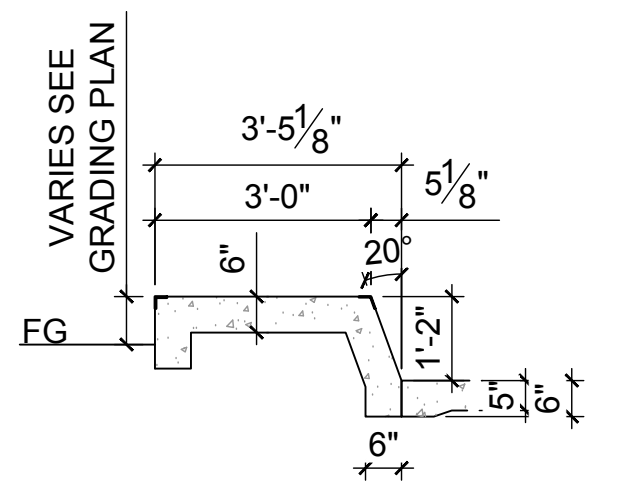
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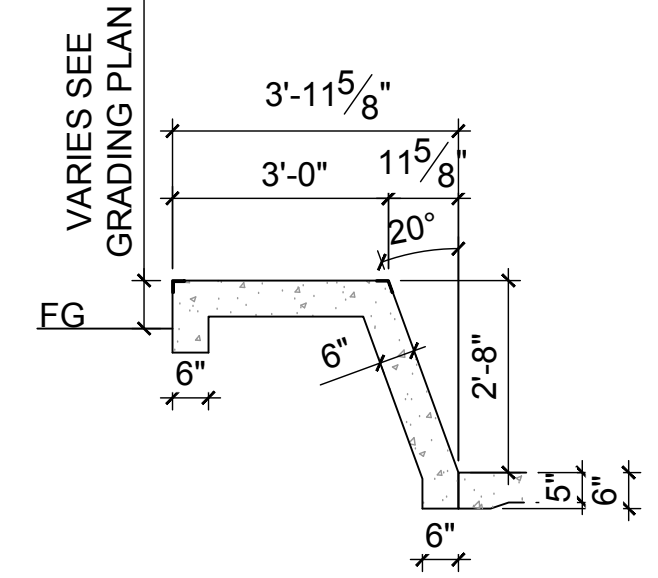
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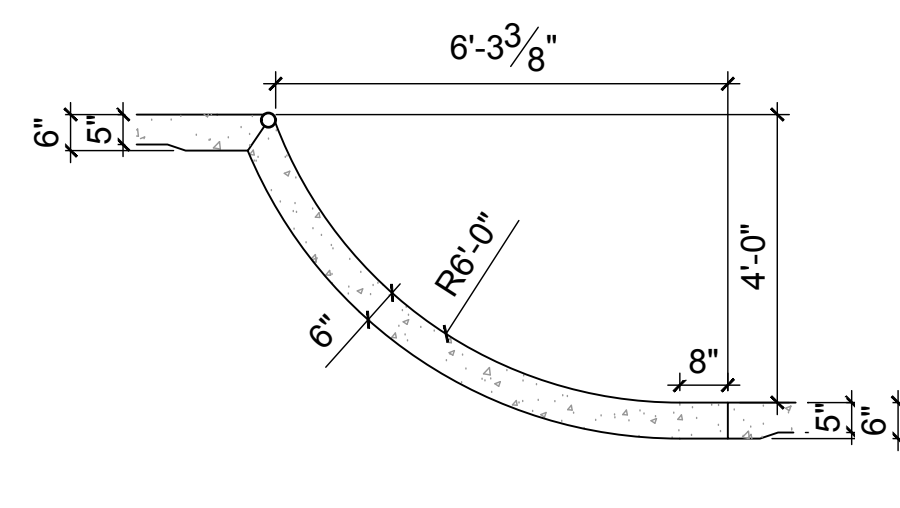
SECTION 30A



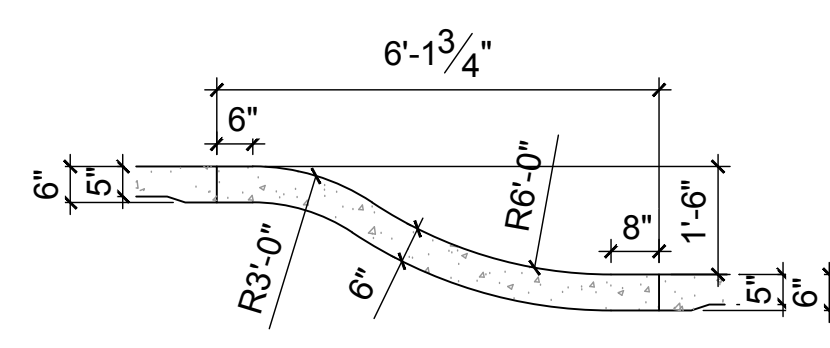
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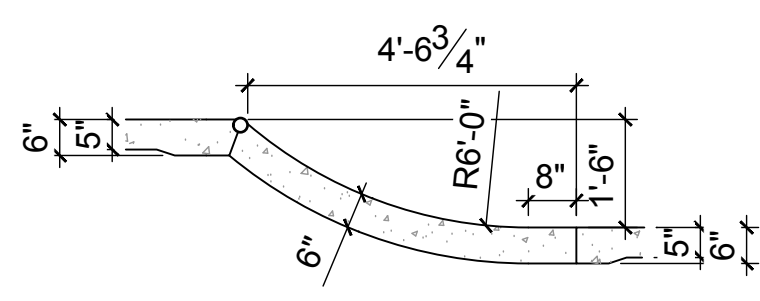
SECTION 30C



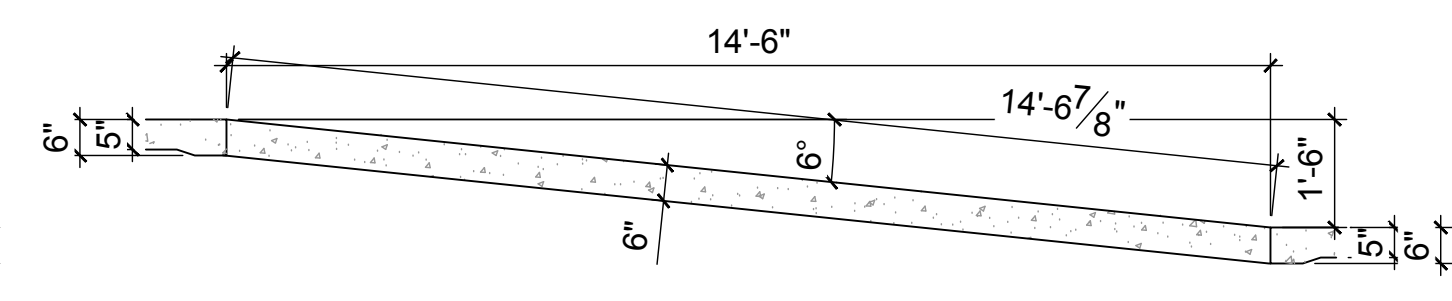
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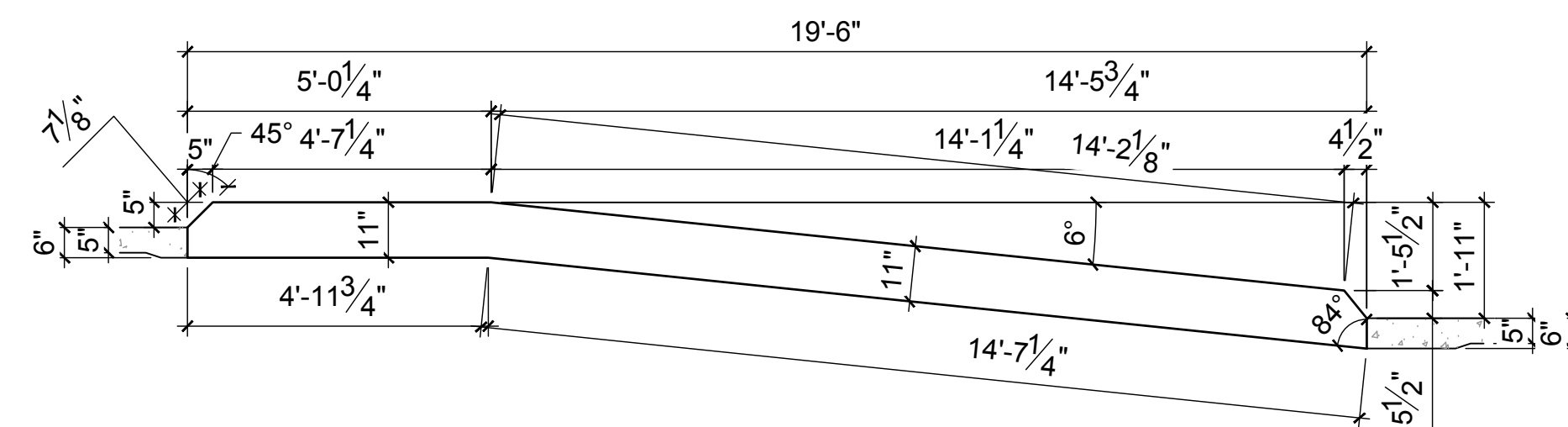
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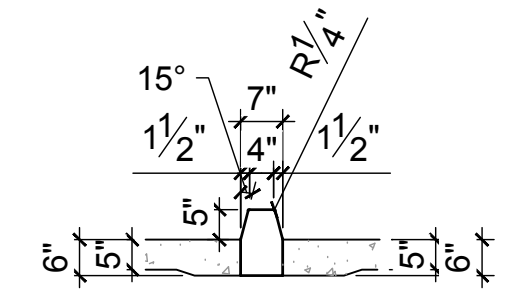
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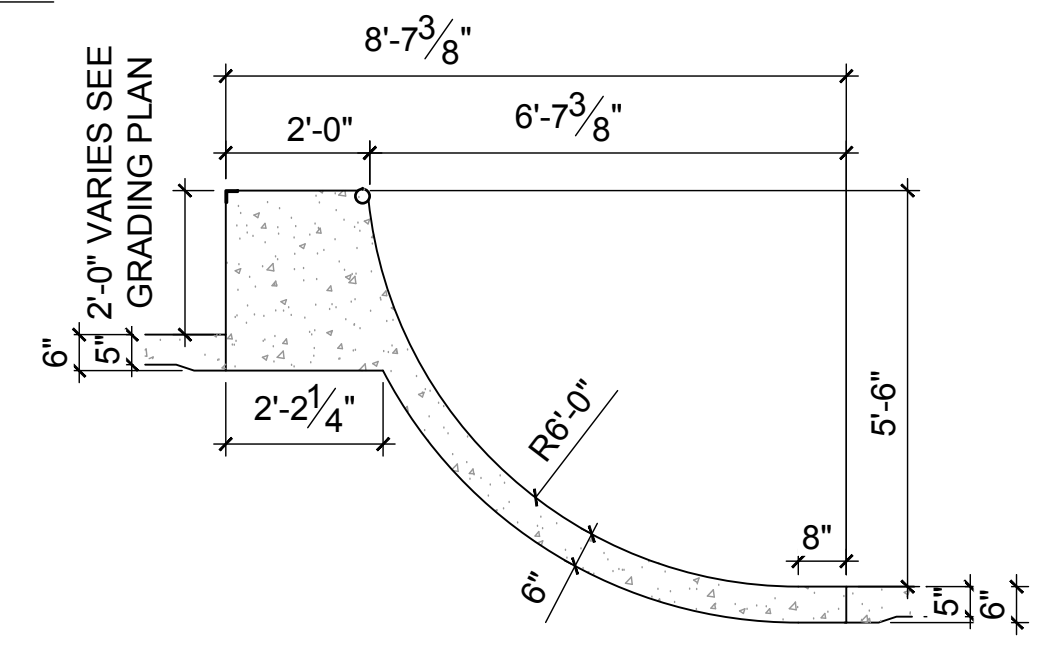
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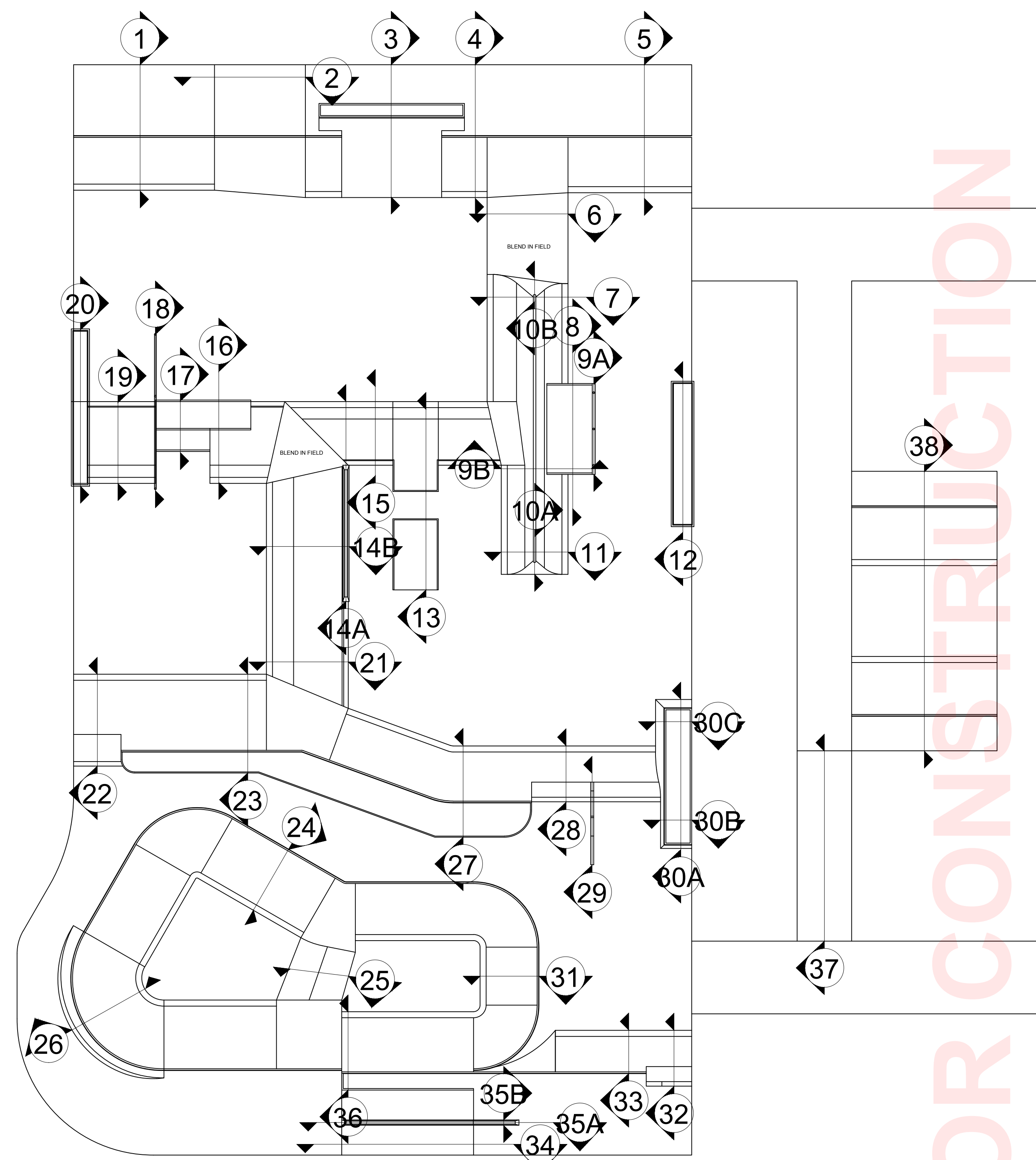
SECTION 35A



SECTION 35B

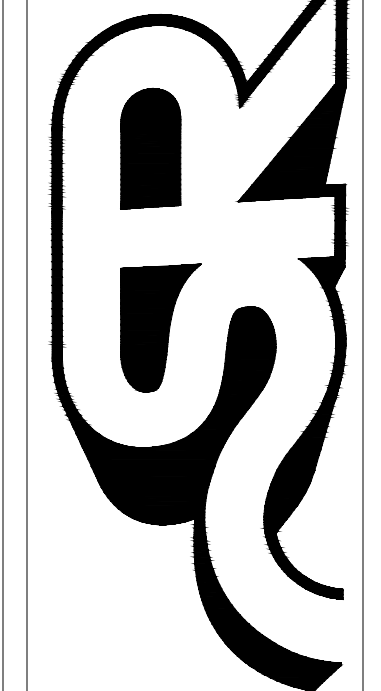


SECTION 36



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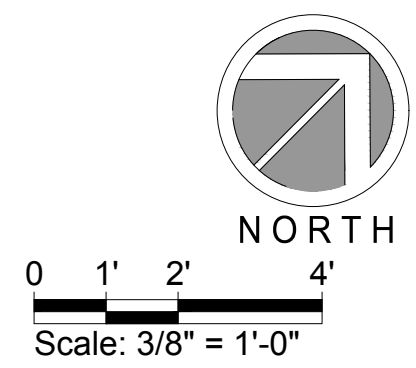
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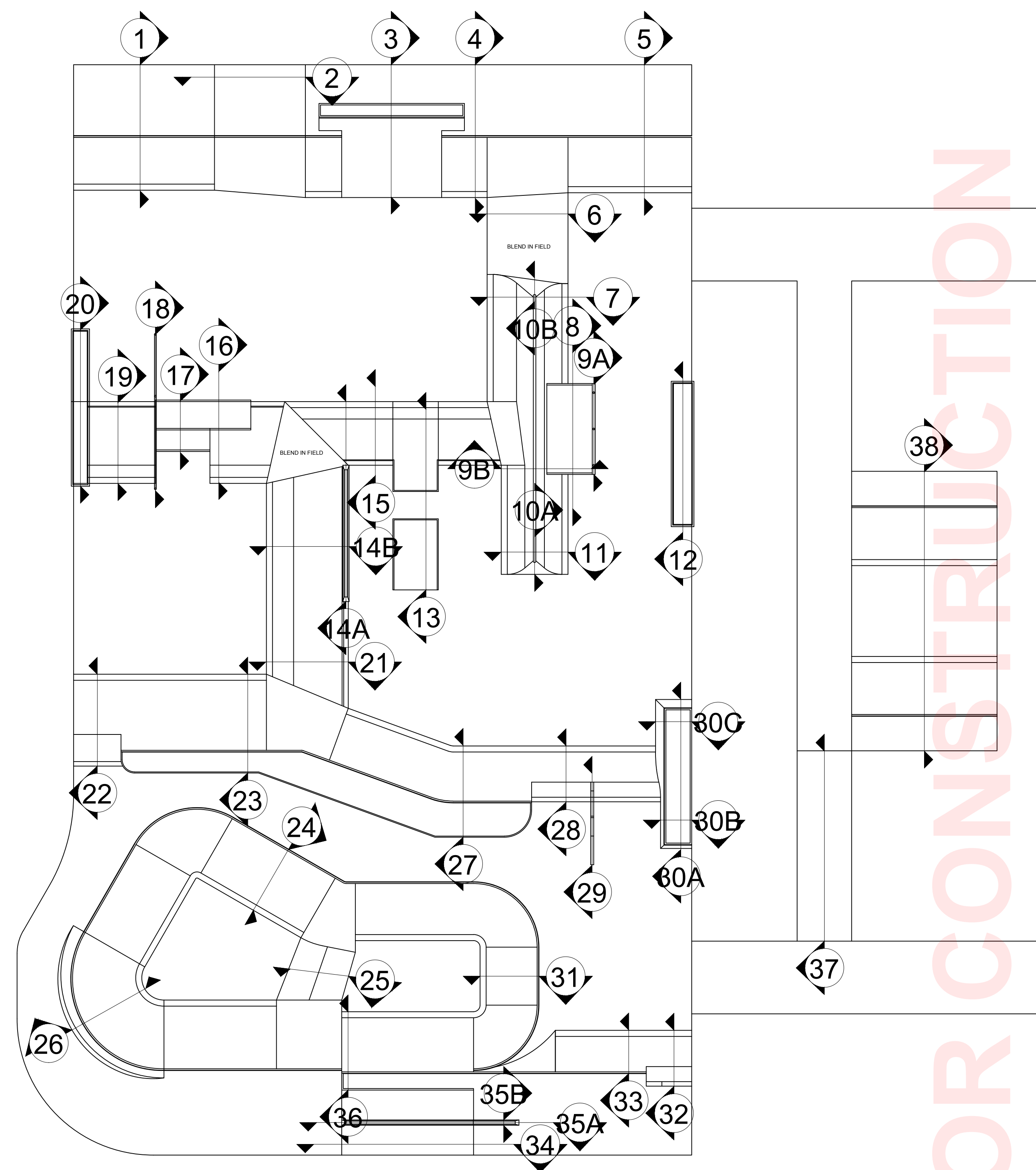
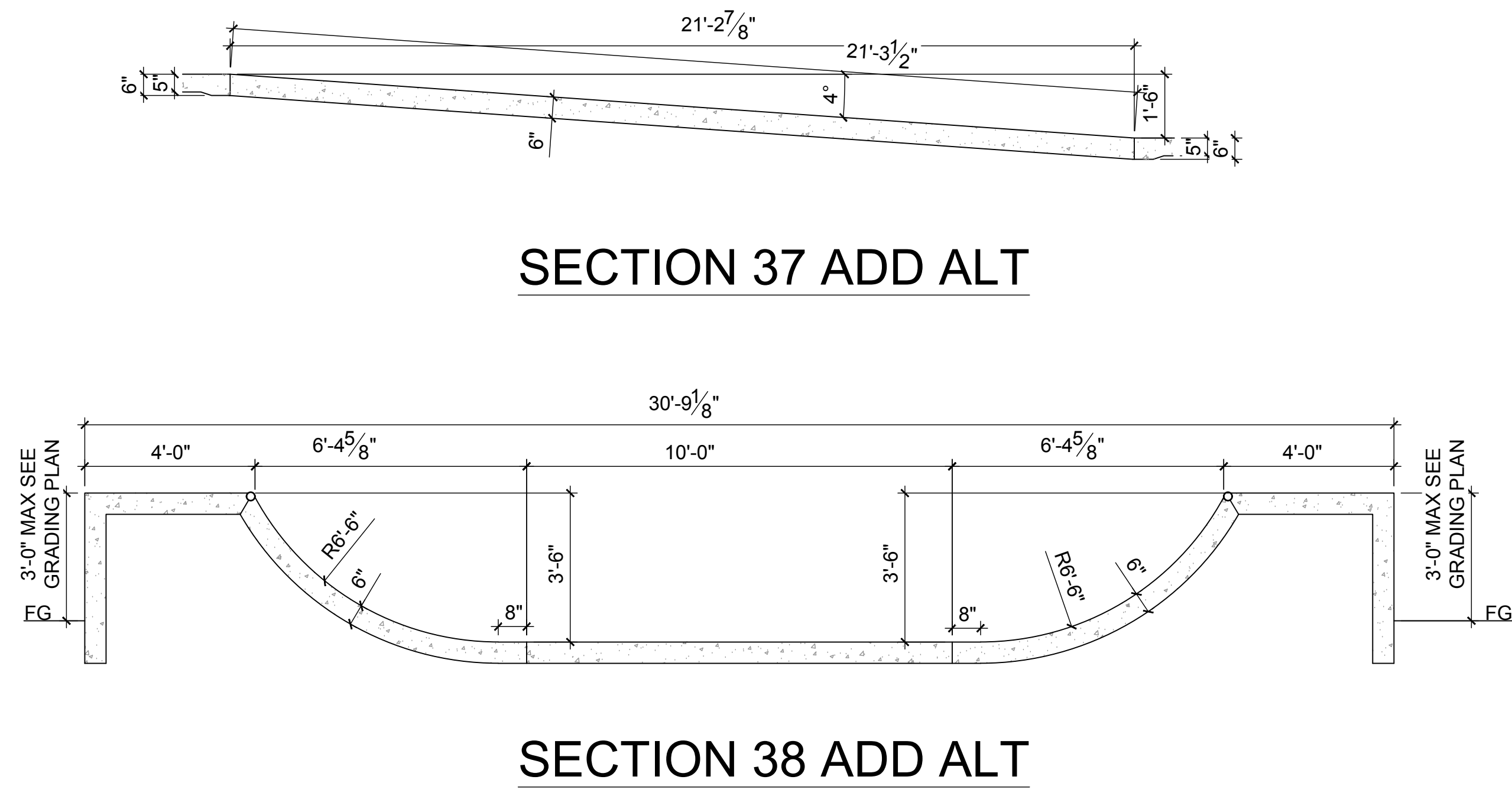
NO	DATE	REVISIONS DESCRIPTION

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PLAN CHECKED BY	
DH	
DATE	8/16/2024

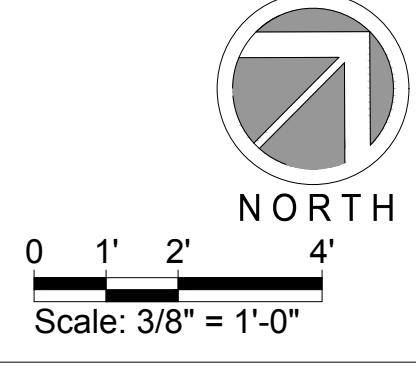
PROJECT TITLE	CLEMSON PARK SKATEPARK
SHEET TITLE	SECTIONS

SHEET
SK8.2
 OF XX



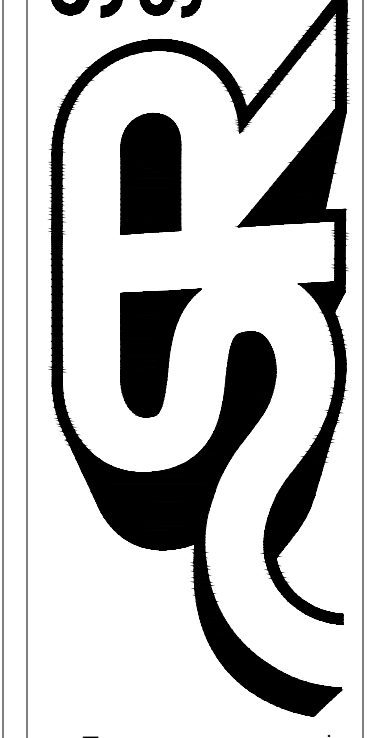


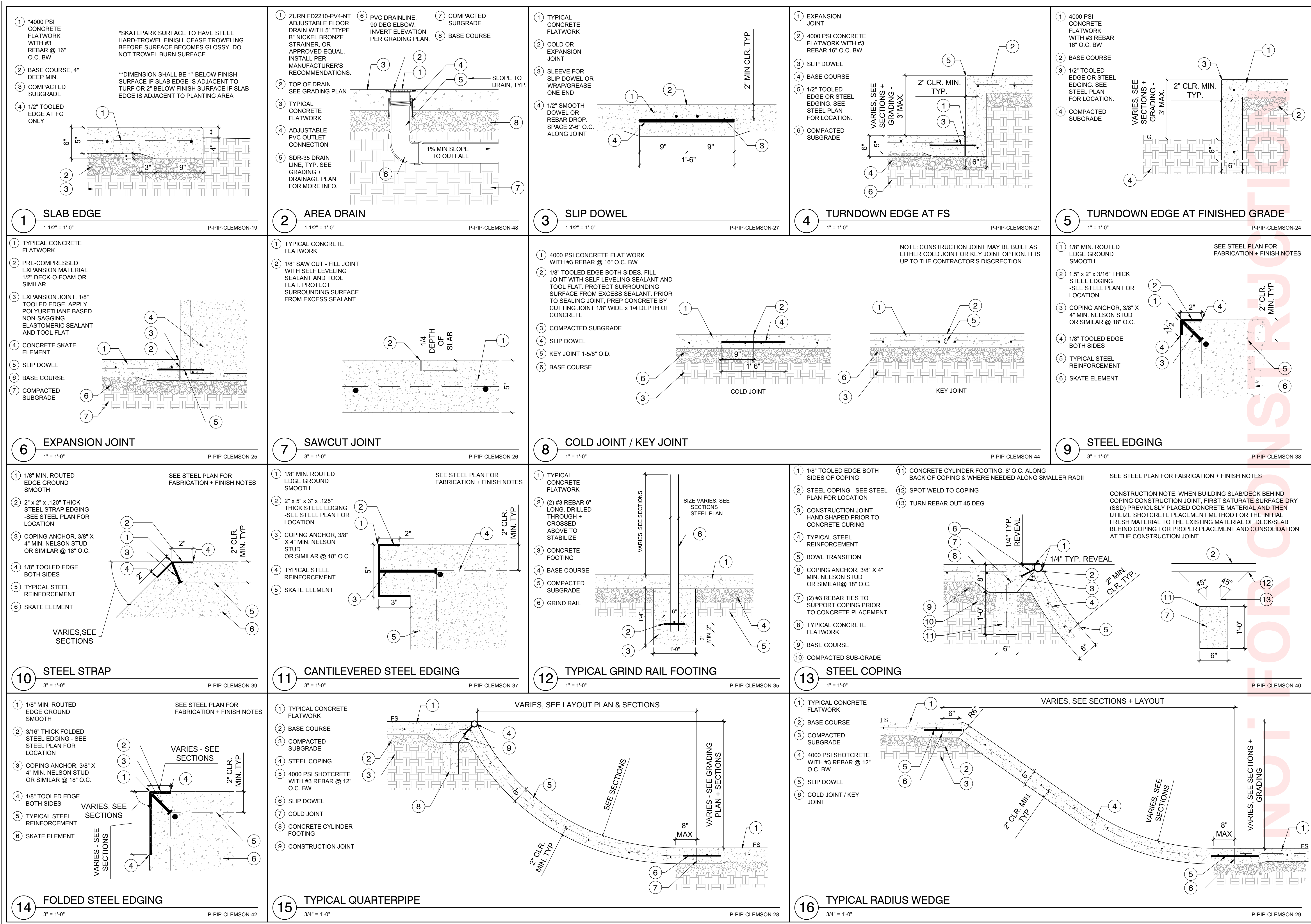
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<p>PROJECT TITLE CLEMSON PARK SKATEPARK</p> <p>SHEET TITLE SECTIONS</p> <p>SHEET SK8.3</p> <p>OF XX</p>	<p>SKATE PARK DESIGNED BY / STAMP: CW</p> <p>DOCUMENTS BY DM / AL</p> <p>PLAN CHECKED BY DH</p> <p>DATE 8/16/2024</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>NO</th> <th>DATE</th> <th>REVISIONS DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	NO	DATE	REVISIONS DESCRIPTION																<p>The use of these plans shall be restricted to the original site for which they were prepared, and publication thereof is limited to the original site. Any other use, reuse of these plans or concepts by any method, in whole or part, without express written consent of Spohn Ranch, Inc. is prohibited. Title to these plans and concepts belongs to Spohn Ranch, Inc. without prejudice. Visual contact with or reproduction of these plans and concepts constitute acceptance of these restrictions. Copyright © 2019 Spohn Ranch, Inc.</p>
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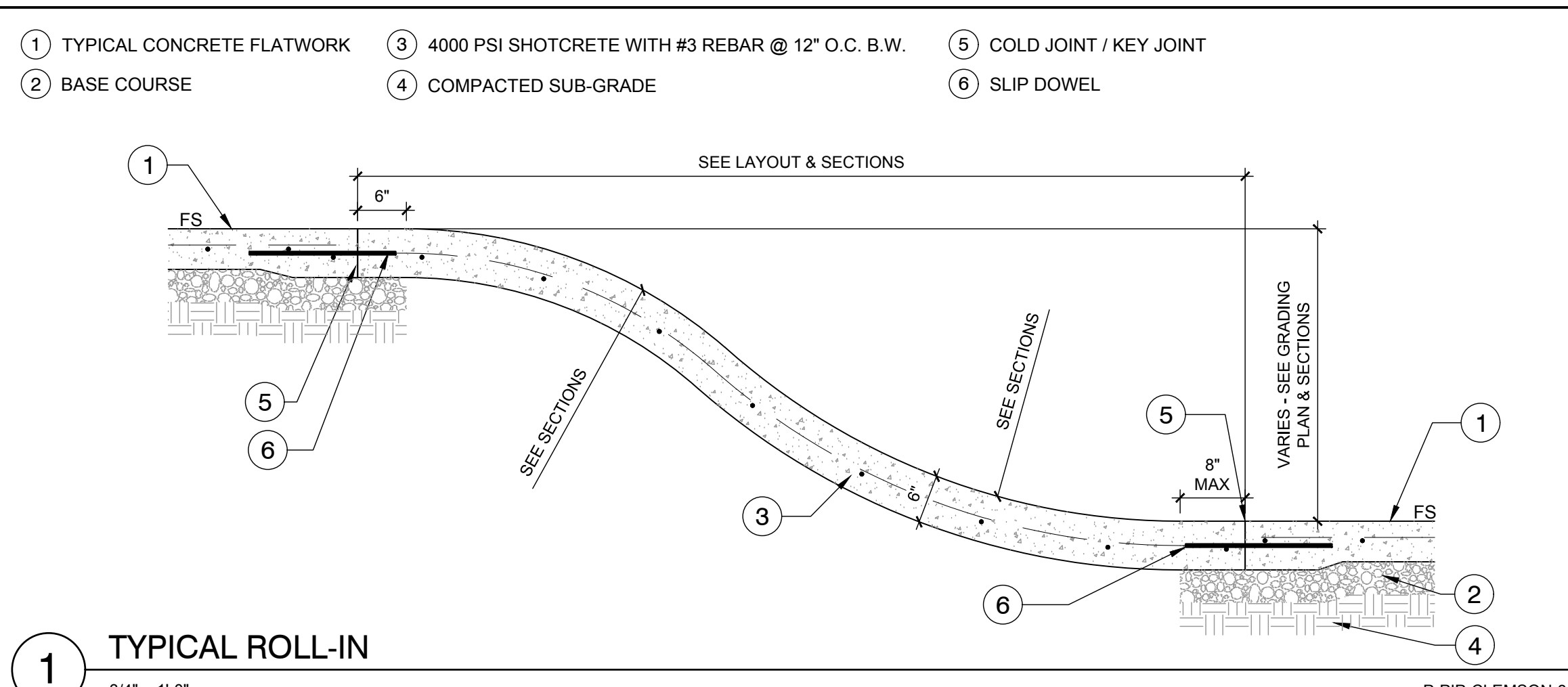
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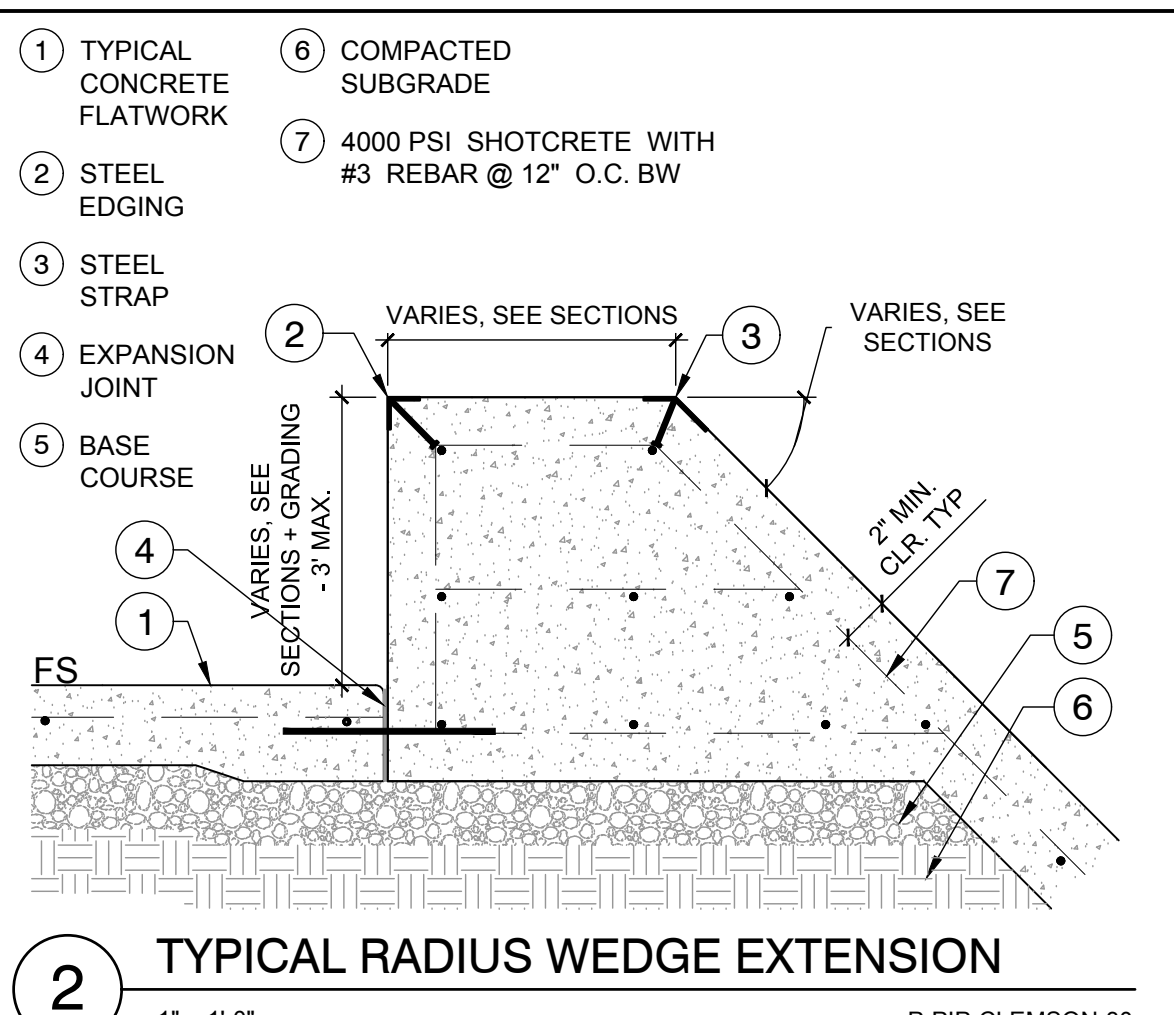
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SHEET TITLE: CONSTRUCTION DETAILS

SHEET: **SK9.0**
OF XX



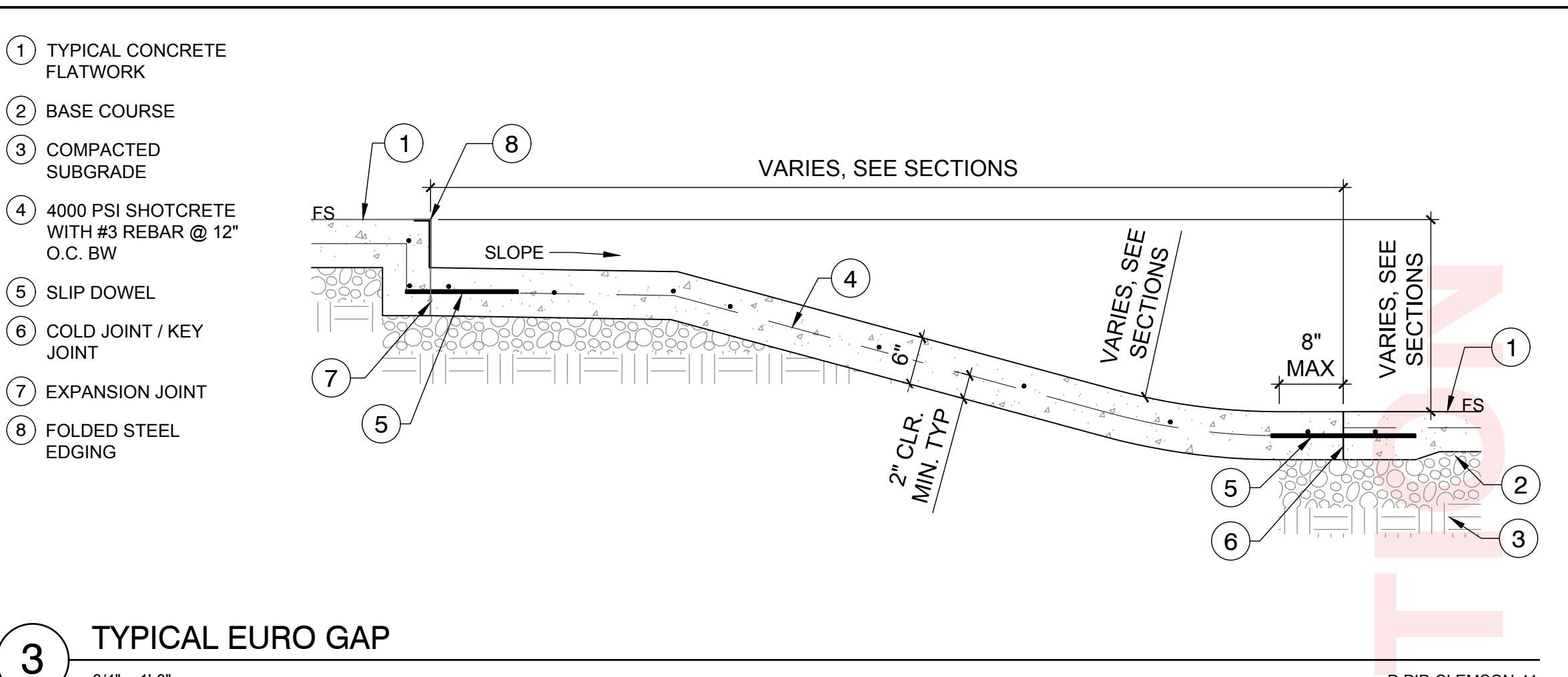
1 TYPICAL ROLL-IN
3/4" = 1'-0"

P-PIP-CLEMSON-31



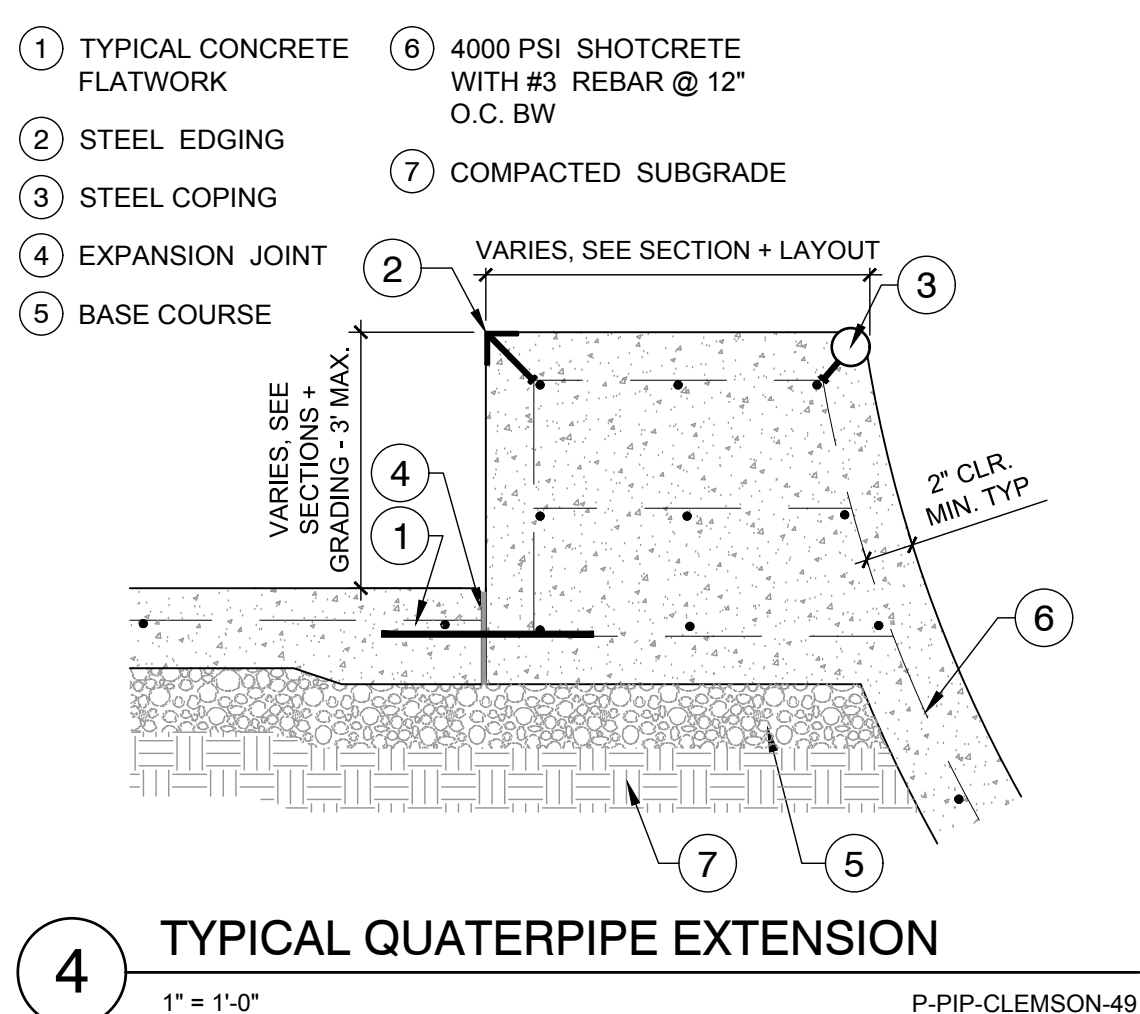
2 TYPICAL RADIUS WEDGE EXTENSION
1" = 1'-0"

P-PIP-CLEMSON-30



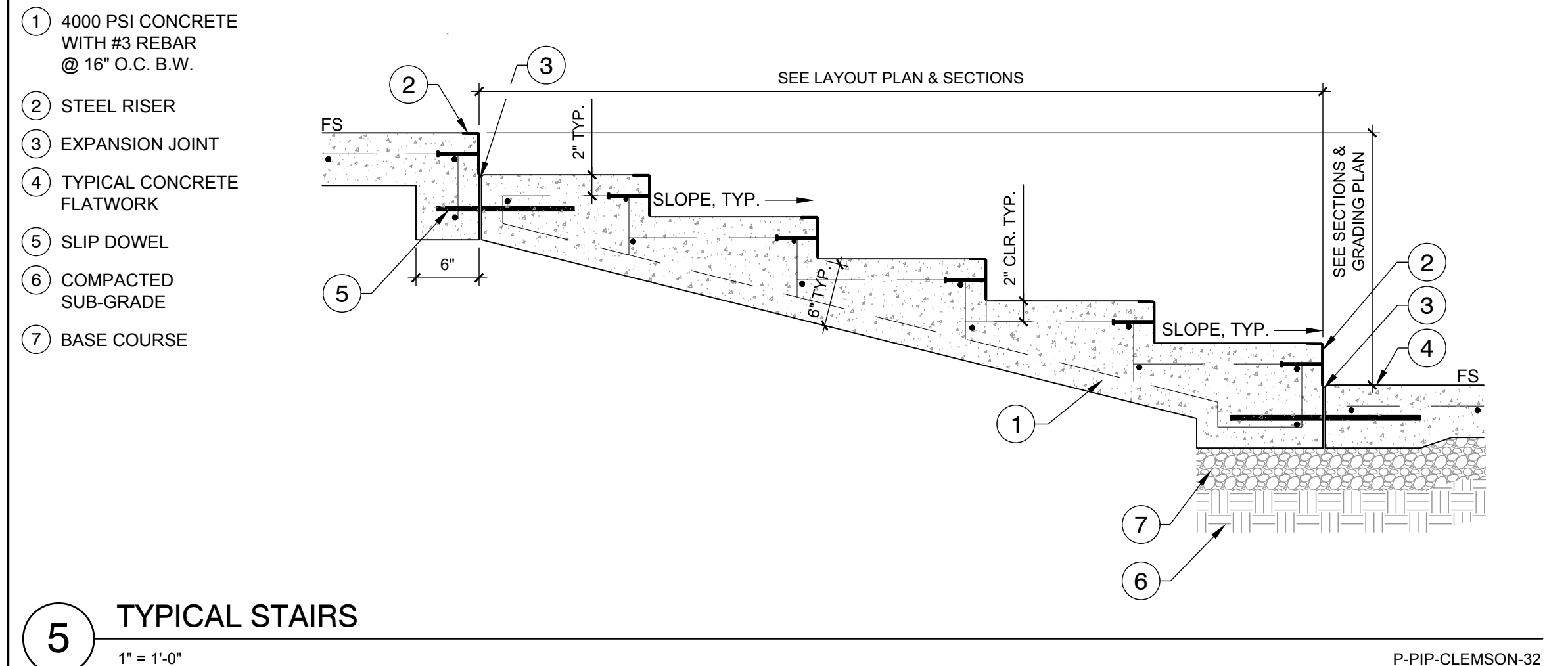
3 TYPICAL EURO GAP
3/4" = 1'-0"

P-PIP-CLEMSON-41



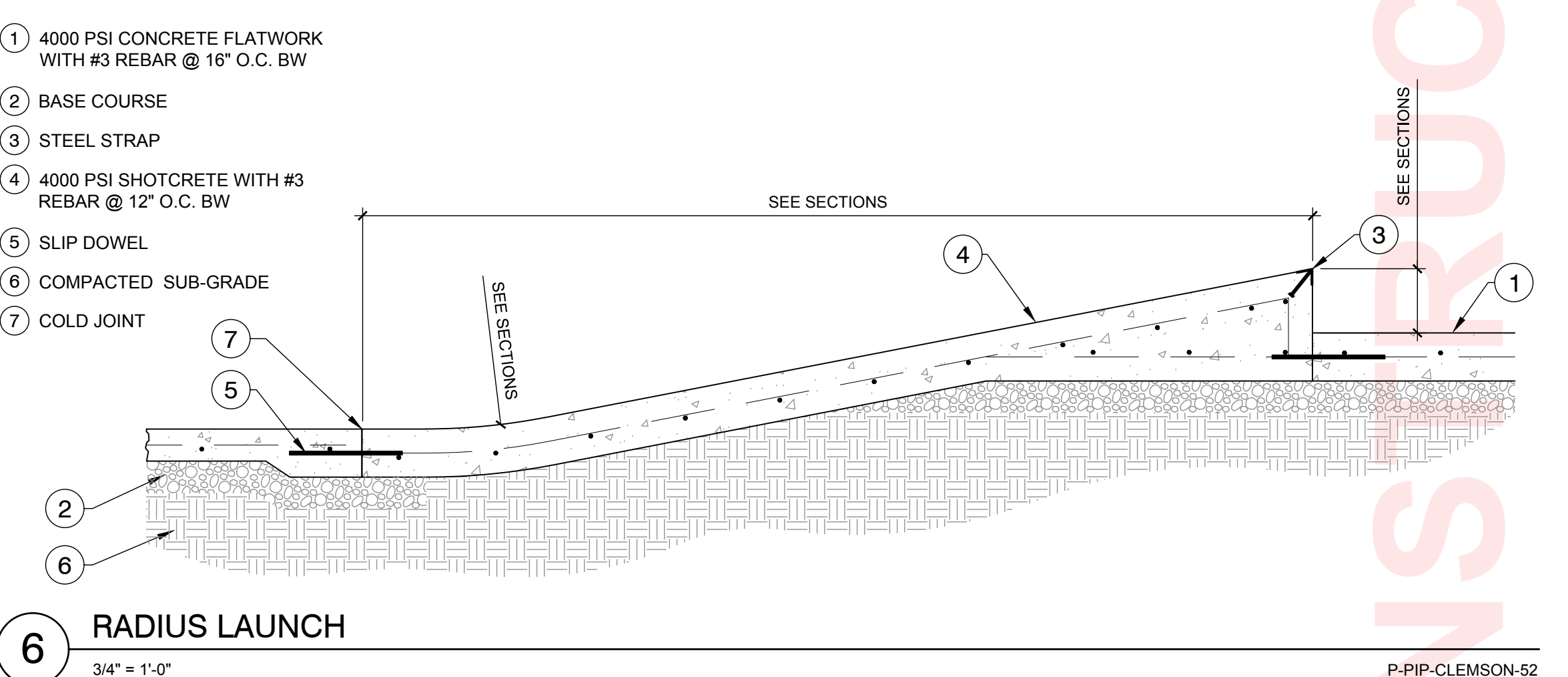
4 TYPICAL QUATERPIPE EXTENSION
1" = 1'-0"

P-PIP-CLEMSON-49



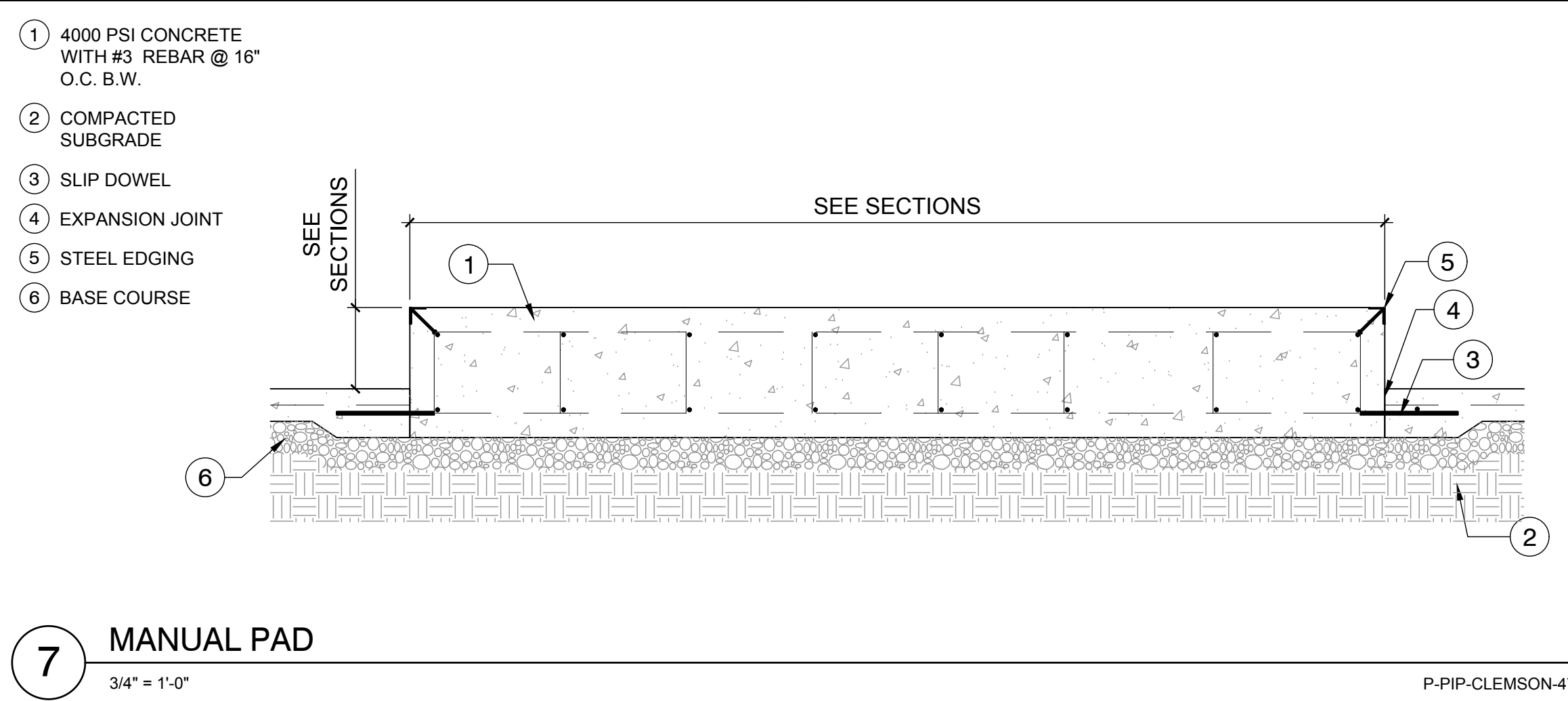
5 TYPICAL STAIRS
1" = 1'-0"

P-PIP-CLEMSON-32



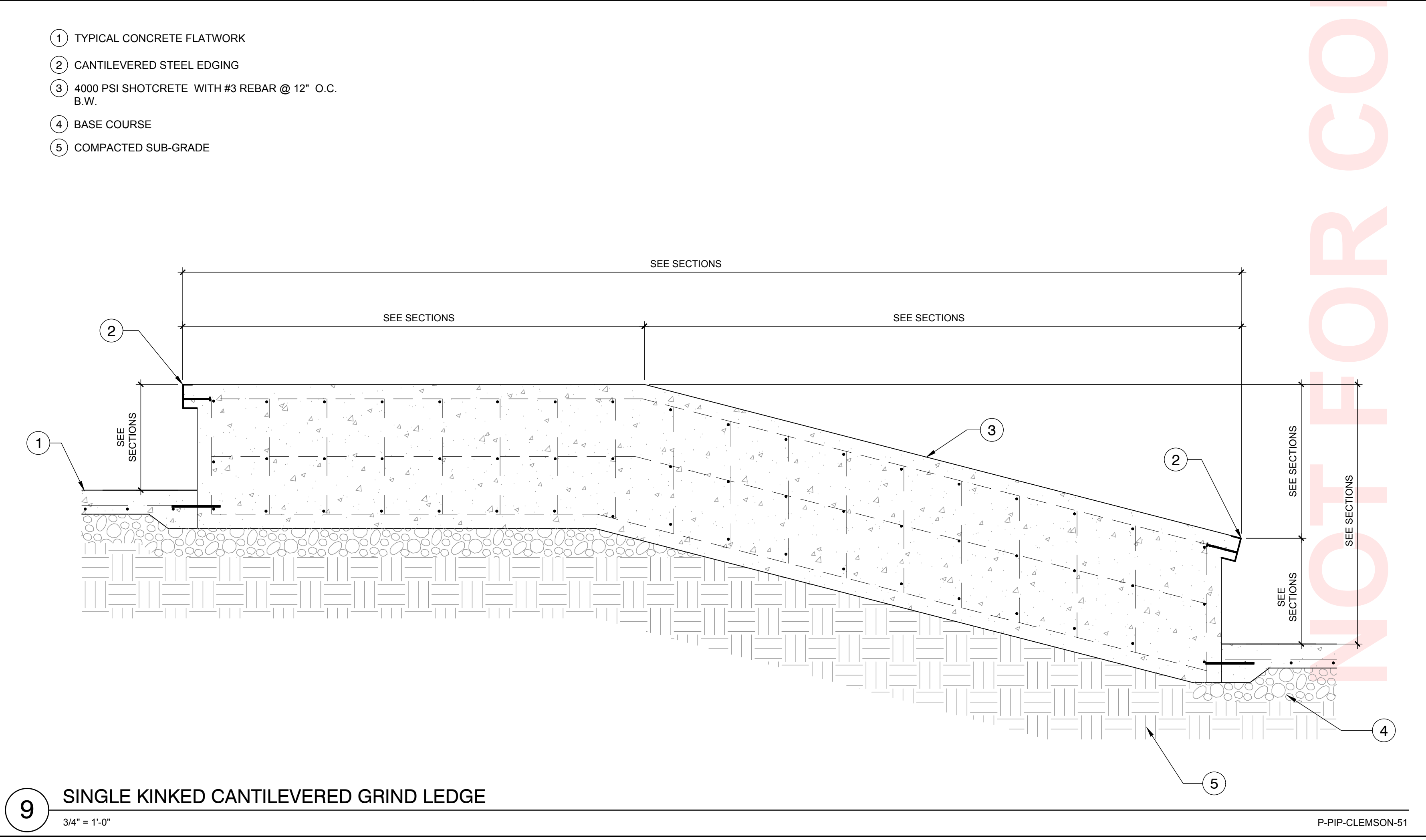
6 RADIUS LAUNCH
3/4" = 1'-0"

P-PIP-CLEMSON-52



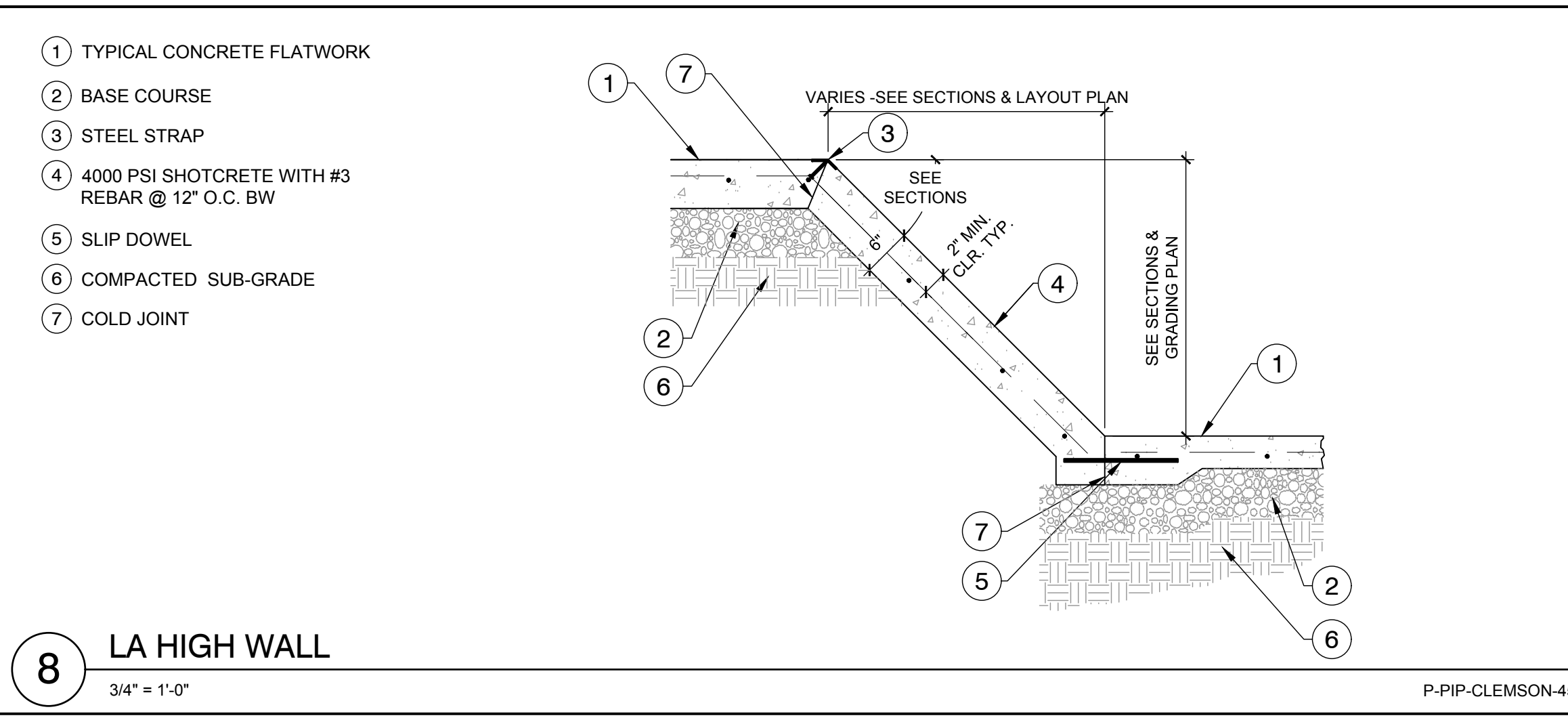
7 MANUAL PAD
3/4" = 1'-0"

P-PIP-CLEMSON-47



9 SINGLE KINKED CANTILEVERED GRIND LEDGE
3/4" = 1'-0"

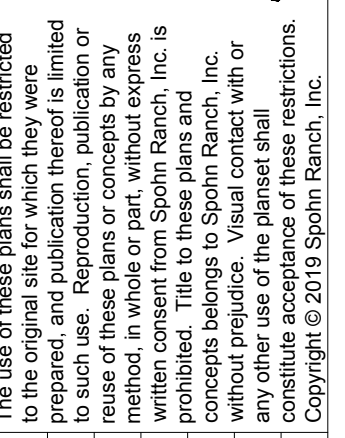
P-PIP-CLEMSON-51



8 LA HIGH WALL
3/4" = 1'-0"

P-PIP-CLEMSON-45

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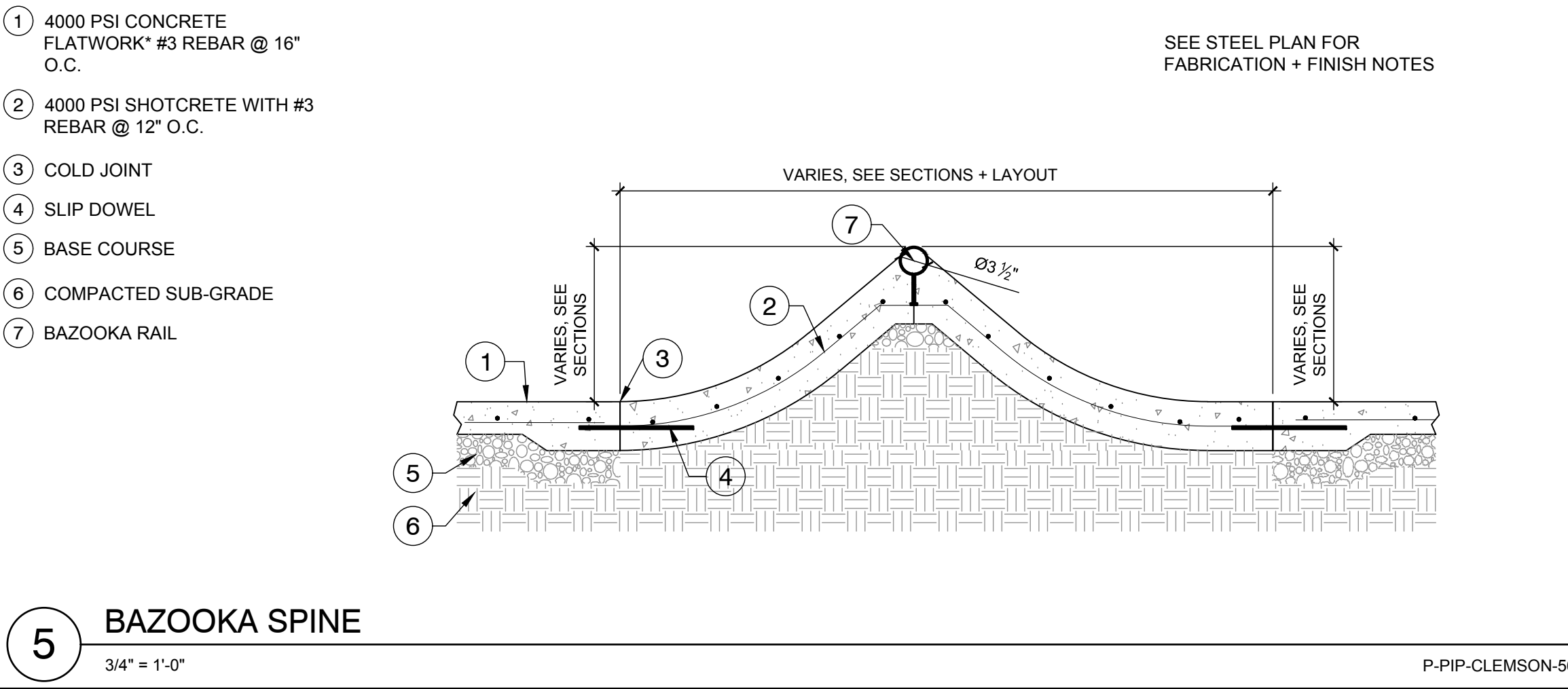
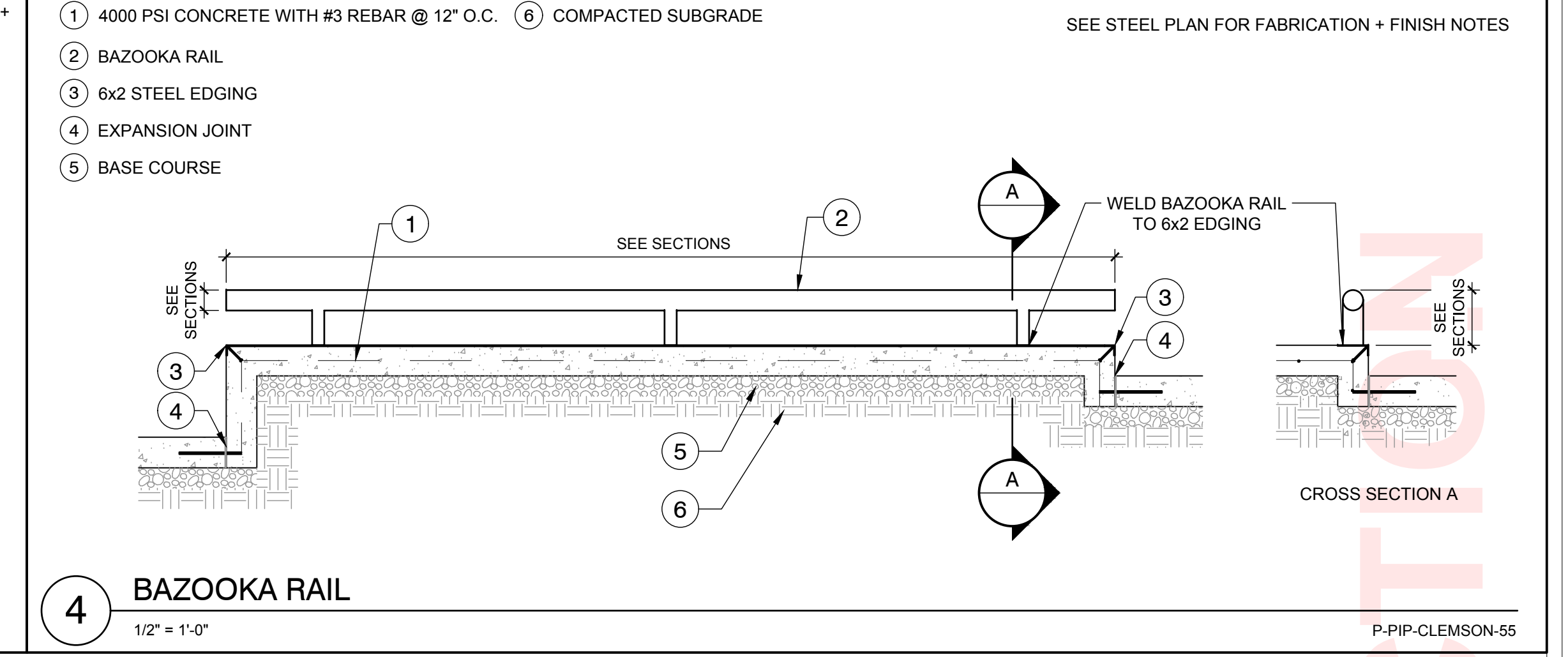
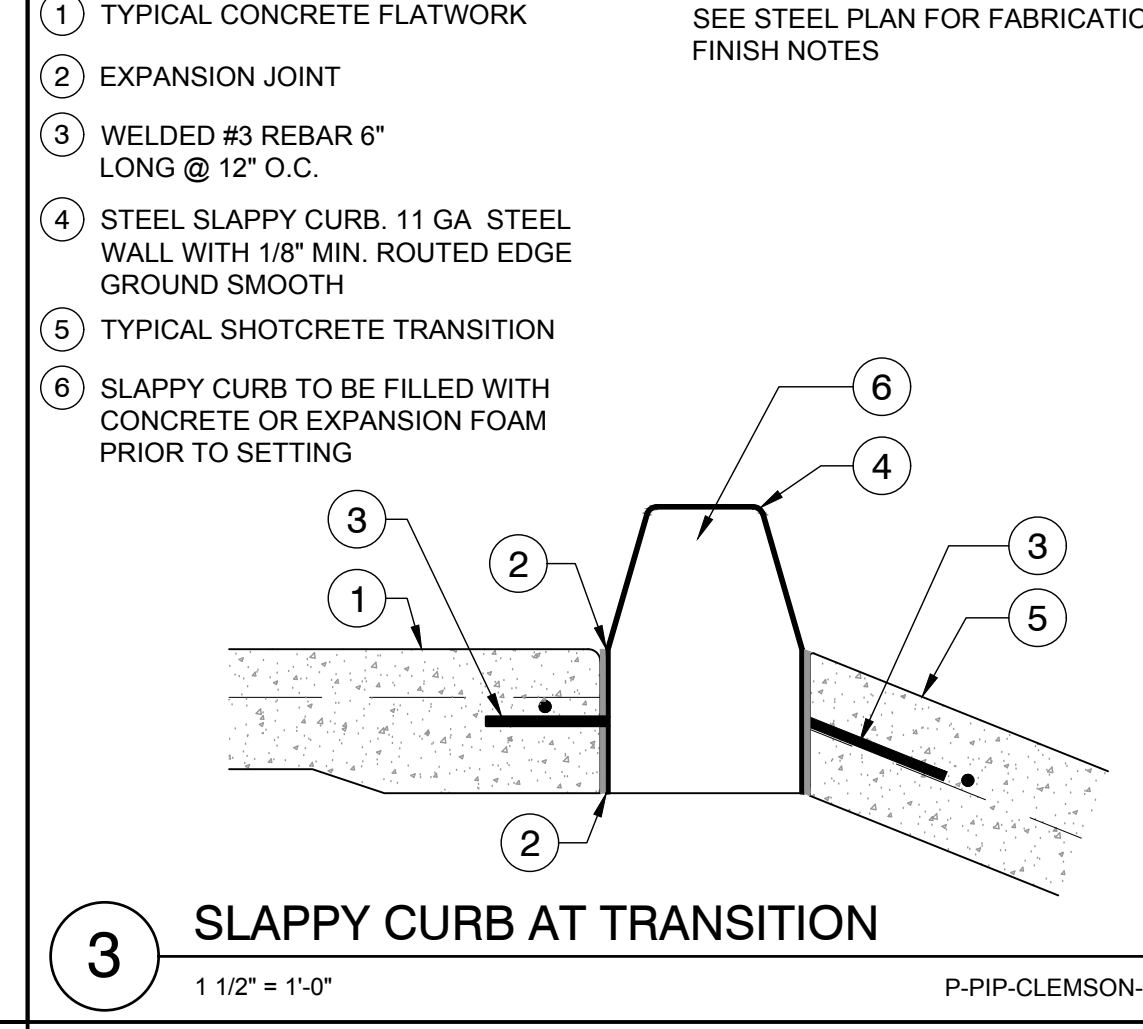
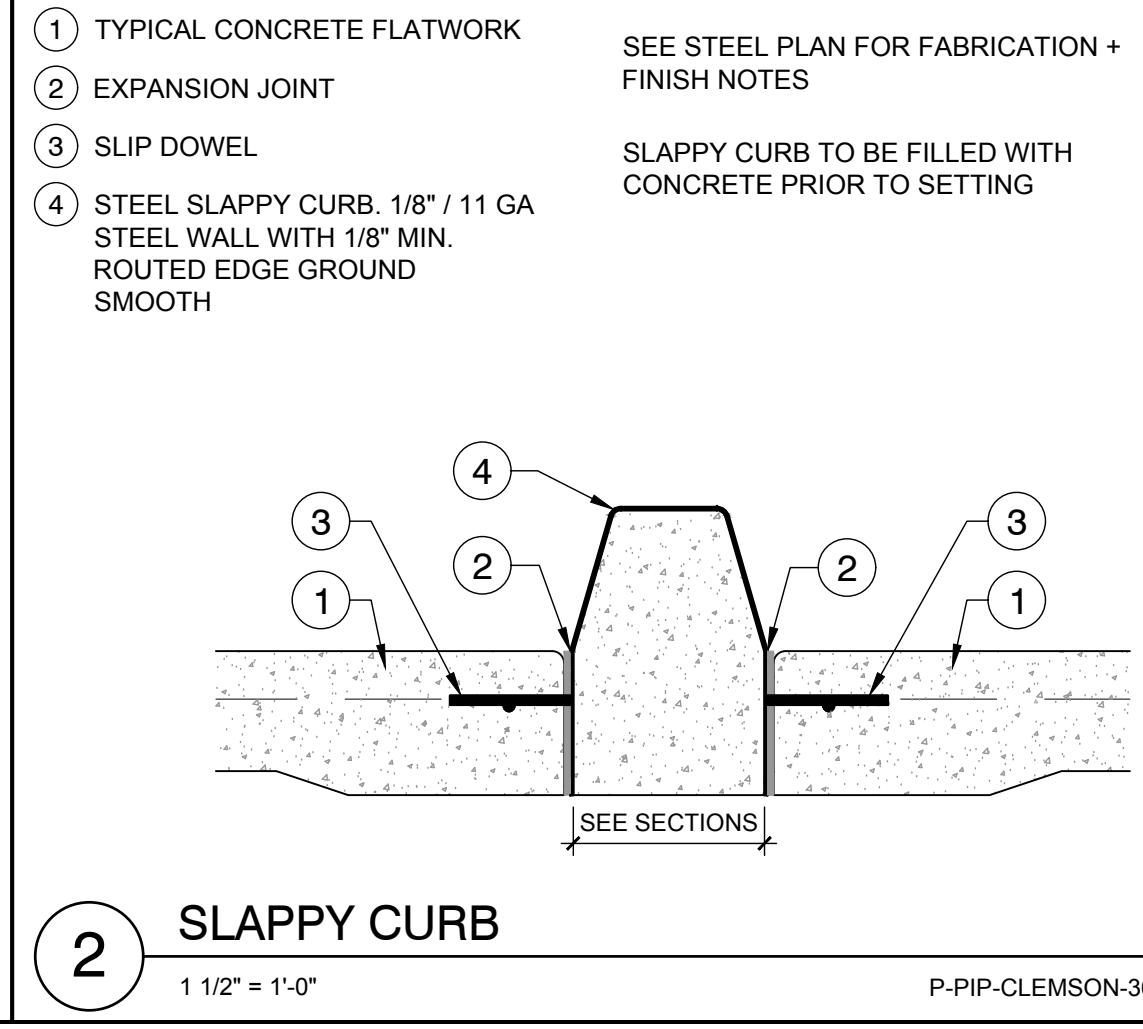
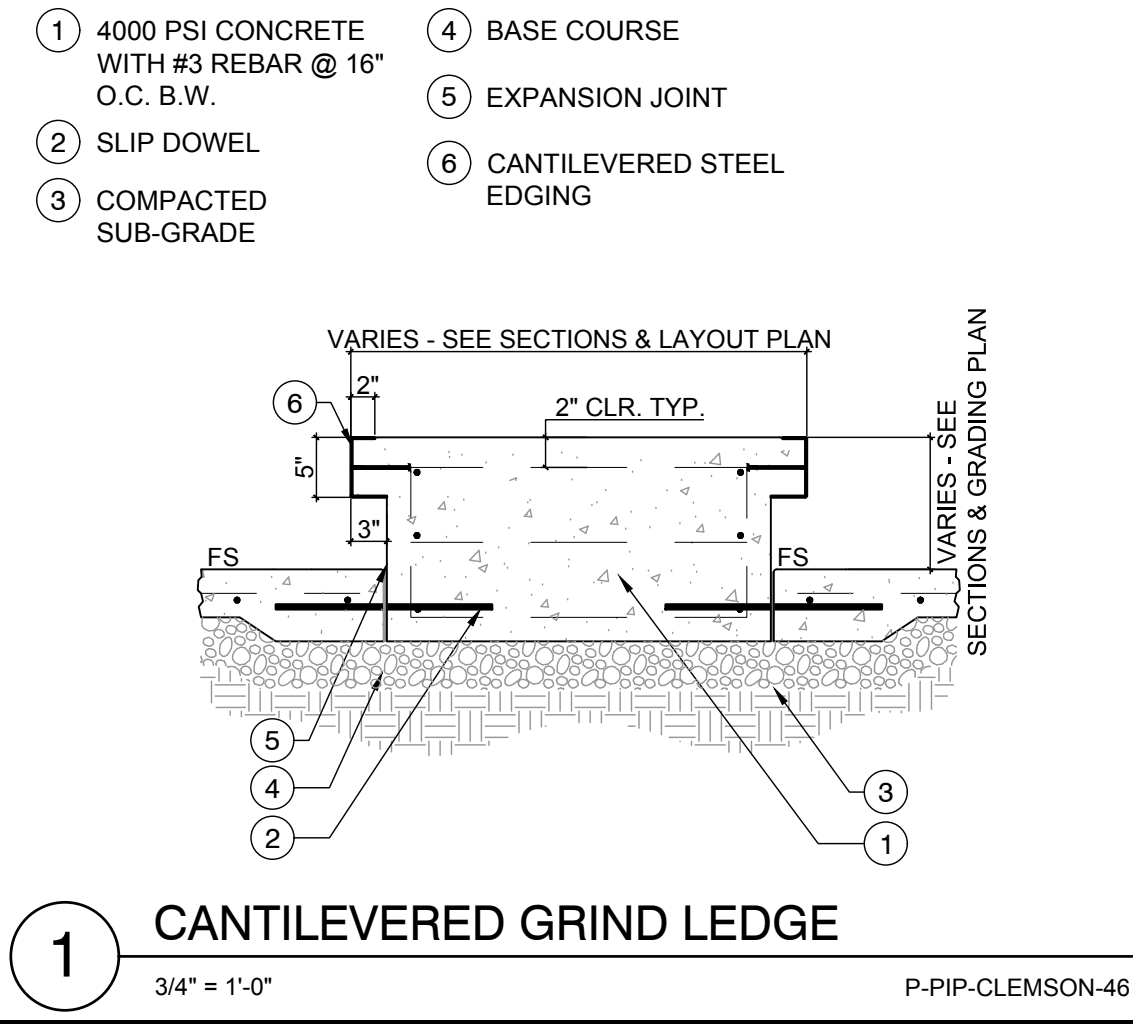


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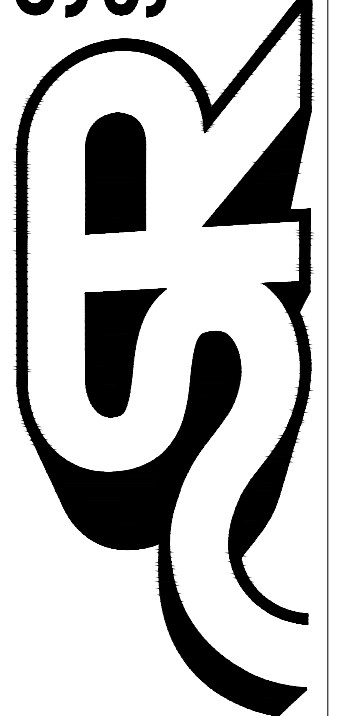
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SK9.2
OF XX