



**WEBER BASIN WATER CONSERVANCY DISTRICT
LAYTON, UTAH**

**DAVIS NORTH WATER TREATMENT PLANT SOLIDS DEWATERING IMPROVEMENT
PROJECT**

CLIENT PROJECT NO. 203356

**ADDENDUM NO. 1
TO THE
CONTRACT DOCUMENTS**

JULY 2, 2025



Pre-qualified Bidders on the above-named project are hereby notified that the Bidding Documents are modified as indicated below. Bidders are required to acknowledge receipt of this Addendum in the space provided on the Document 00_41_00 - Bid Form.

This Addendum shall become part of the Contract and provisions of the Contract apply.

SPECIFICATIONS

The following sections are modified as indicated below.

1. SECTION 00_11_13 - ADVERTISEMENT FOR BIDS

a. GENERAL NOTICE

- 1) In paragraph 3, REPLACE the date "July 22" with "August 13" as shown in the following paragraph:

Bids for the construction of the Project will be received at the Weber Basin Water Conservancy District located at 2837 E Highway 193, Layton, Utah, 84040 until August 13, 2025, by 3:00 p.m. local time. At that time the Bids received will be publicly opened and read.

b. PRE-BID CONFERENCE

- 1) In paragraph 1, REPLACE the date "June 24" with "July 16" as shown in the following paragraph:

A mandatory pre-bid conference for the Project will be held on July 16, 2025, at 2:00 p.m. at the Davis North Water Treatment Plant, 2837 E Highway 193, Layton, Utah, 84040. Attendance at the pre-bid conference is required to bid this project.

c. INSTRUCTIONS TO BIDDERS

- 1) In the Date section, REPLACE the date "June 17" with "July 7" as shown in the following paragraph:

Date: July 7, 2025

2. SECTION 26_05_26 - GROUNDING AND BONDING

a. PARAGRAPH 2.03 MANUFACTURERS

- 1) REPLACE paragraph A in its entirety with the following:

"A. Exothermic connectors: One of the following or equal:

1. ABB.
2. Burndy.
3. Erico.
4. Harger."

b. PARAGRAPH 2.04 MATERIALS

- 1) REPLACE paragraph C in its entirety with the following:

"C. Exothermic welds:

1. Current carrying capacity equal to that of the conductor.
2. Permanent molecular bond that cannot loosen or corrode over time.

3. Will not deteriorate with age.
 4. Use low emission welds for indoor installations.”
- c. PARAGRAPH 3.03 INSTALLATION
- 1) In paragraph I.1, REPLACE the words “compression type grounding connectors” with “exothermic welds” as shown in the following paragraph:
 1. Connections to the ground grid system, the duct bank grounding system, equipment, ground rods, etc., shall be made using exothermic welds as indicated on the Drawings, UL listed, and labeled for the application.

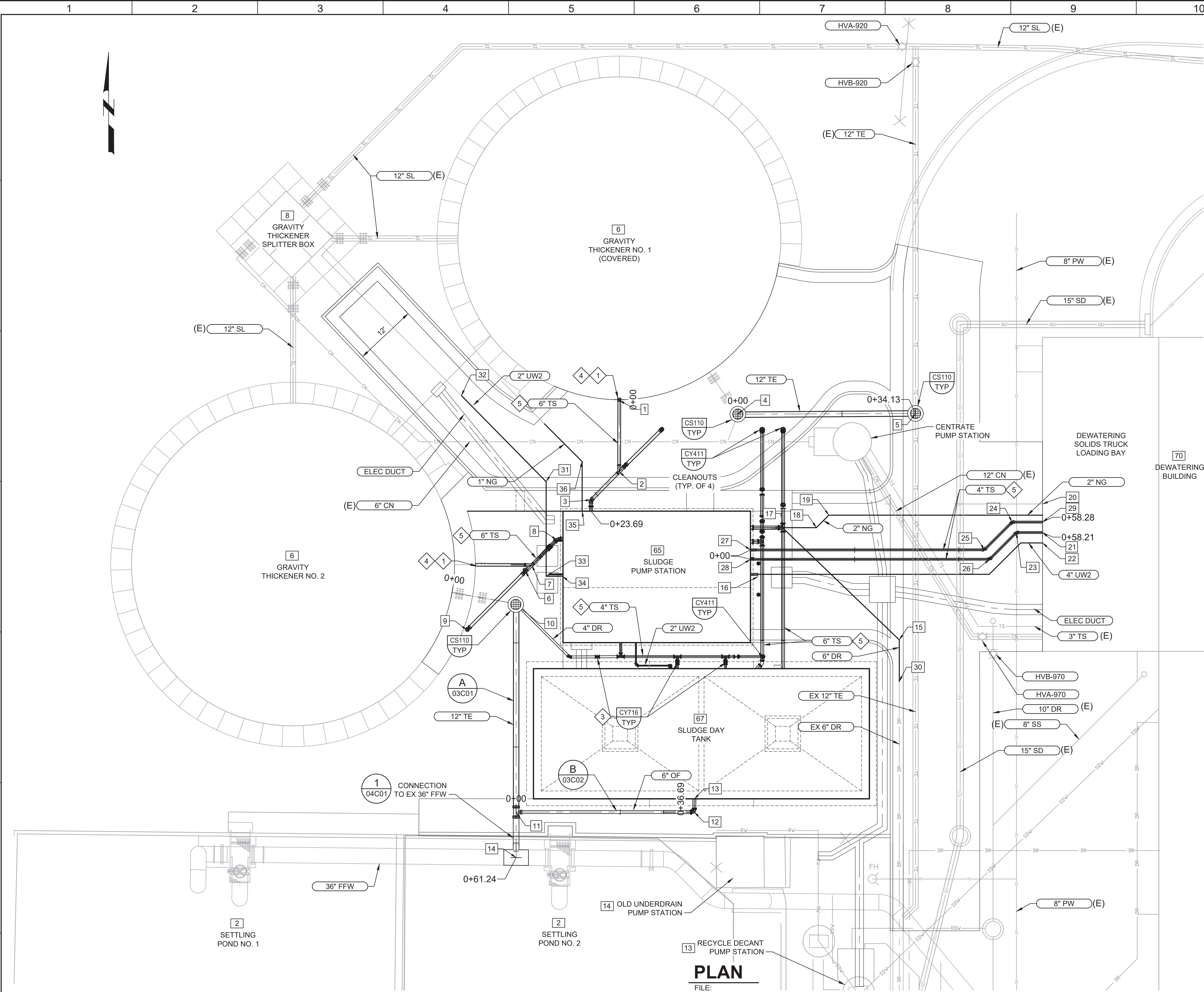
DRAWINGS

The following drawings are modified as indicated below.

1. REPLACE the following drawings in their entirety with the drawings attached:
 - a. 00G10.
 - b. 02C02.
 - c. 03C01.
 - d. 03C02.
 - e. 04C01.
 - f. 00GS01.
 - g. 65S01.
 - h. 65S03.
 - i. 67S01.
 - j. 65M02.
 - k. 67M01.
 - l. 65E04.
 - m. 65E05.
 - n. 65N03.
 - o. 00TE01.
2. On Drawing 00TE01, REPLACE Typical Detail EG001 with the attached Typical Detail EG051.
3. On Drawing 00TE01, REPLACE Typical Detail EG002 with the attached Typical Detail EG052.
4. On Drawing 00TE01, REPLACE Typical Detail EG101 with the attached Typical Detail EG151.

Plot Date: 1/23/2025 8:16 AM

LAST SAVED BY: avalenzuela



COORDINATE CONTROL POINTS		
POINT	NORTHING	EASTING
1	3563988.36	1526177.33
2	3563974.66	1526177.32
3	3563969.23	1526171.89
4	3563985.69	1526200.10
5	3563985.84	1526234.22
6	3563955.54	1526159.33
7	3563956.70	1526160.54
8	3563961.52	1526165.35
9	3563944.24	1526148.07
10	3563949.13	1526157.45
11	3563909.27	1526157.52
12	3563909.27	1526191.73
13	3563911.75	1526191.73
14	3563900.52	1526157.52
15	3563942.34	1526231.10
16	3563954.50	1526203.98
17	3563963.87	1526208.70
18	3563963.90	1526215.16
19	3563966.30	1526217.57
20	3563968.45	1526258.60
21	3563962.97	1526258.60
22	3563960.97	1526258.60
23	3563962.97	1526253.58
24	3563964.97	1526252.76
25	3563959.65	1526247.44
26	3563957.83	1526248.44
27	3563959.62	1526202.53
28	3563957.81	1526202.52
29	3563964.97	1526258.60
30	3563934.37	1526231.10
31	3563972.72	1526163.27
32	3563989.27	1526147.01
33	3563954.56	1526163.28
34	3563954.57	1526166.45
35	3563967.07	1526170.20
36	3563976.59	1526170.20

GENERAL NOTES:

- THE CONTRACTOR IS RESPONSIBLE FOR TEMPORARY PIPING PLANS AND ROUTES TO KEEP EXISTING FACILITIES IN OPERATION DURING CONSTRUCTION PLACE TEXT.
- LOCATION OF EXISTING PIPELINES ARE APPROXIMATE AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE PREPARING TEMPORARY PIPING PLANS.
- ALL GENERAL NOTES LISTED ON DRAWING 00GC01 - NOTES, LEGEND, AND SYMBOLS APPLY TO THIS AND OTHER CIVIL DRAWINGS.

KEY NOTES:

- REMOVE EXISTING FLEXIBLE COUPLINGS AND INSTALL NEW HDPE TO EXISTING DIP WITH A FLANGE ADAPTER AND BACKER RING. USE MEGALUG 2100 MEGAFLANGE OR EQUAL.
- SEE DRAWING 70DM01 FOR DEMOLITION OF EXISTING MECHANICAL EQUIPMENT AND PIPING. SEE DRAWING 70M01 FOR NEW PROCESS MECHANICAL PIPING.
- BURIED PLUG VALVES (TYP OF 3) UNDER SIDEWALK.
- CONTRACTOR TO FIELD VERIFY PIPE ALIGNMENT BETWEEN EXISTING SLUDGE LINE AND CONNECTION TO NEW SLUDGE PUMP STATION.
- ALL BURIED THICKENED SLUDGE LINES CONNECT TO NEW STRUCTURES USING FLANGE X FLANGE (W/ BACKER RING) CONNECTION.

EXISTING FACILITY CODES:

- 2 SETTLING POND
- 3 OZONE CONTACTORS
- 8 GRAVITY THICKENER SPLITTER BOX
- 13 RECYCLE DECANT PUMP STATION
- 14 UNDERDRAIN PUMP STATION
- 70 CENTRIFUGE DEWATERING FACILITY

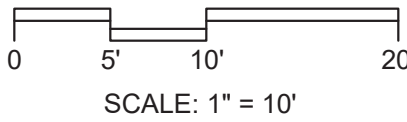
NEW FACILITY CODES:

- 65 SLUDGE PUMP STATION
- 67 SLUDGE DAY TANK



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SCALE



SCALE: 1" = 10'

PLAN

FILE:

REV	DATE	BY	DESCRIPTION
1	7/2/2025	MF	DRAWING REPLACED PER ADDENDUM NO.1

DESIGNED
MF
DRAWN
CSM
CHECKED
JB
DATE
JUNE 2025



WEBER BASIN WATER CONSERVANCY DISTRICT
DNWTP SOLIDS DEWATERING IMPROVEMENT PROJECT
CIVIL
OVERALL
PIPING PLAN & PIPE COORDINATES

VERIFY SCALES

BAR IS ONE INCH ON ORIGINAL DRAWING

0 1"

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO.
203356

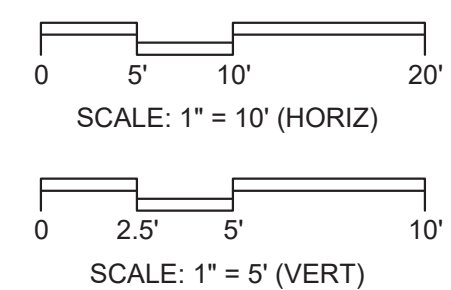
DRAWING NO.
02C02

SHEET NO.
38 OF 162



- # KEY NOTES:**

 1. WELD ON A 12" ROMAC FTS445 WELD-ON TAPPING SLEEVE OR EQUAL. FOLLOW MANUFACTURER INSTRUCTIONS FOR WELDING INSIDE AND OUT OF SLEEVE. VERIFY THICKNESS AND INTERIOR COATING OF EXISTING STEEL PIPE. REFER TO SPECIFICATIONS FOR WORK RESTRICTIONS AND COORDINATE INSTALLATION WITH OWNER AS THE EXISTING 36" PIPE MUST REMAIN IN OPERATION TO ACCOMMODATE FILTER BACKWASHING.
 2. INSTALL NEW 12" TE PIPELINE AS PERMANENT WHEN ROUTING AROUND CONSTRUCTION AREA. LEAVE BLIND FLANGE ON TEE WHEN FUTURE 6" OF FROM NEW SLUDGE DAY TANK CONNECTIONS.
 3. EXISTING GRAVITY THICKENER MUST BE TAKEN OFF-LINE TO MAKE NEW PIPING CONNECTIONS.



				DESIGNED MF						WEBER BASIN WATER CONSERVANCY DISTRICT		VERIFY SCALES	JOB NO. 203356
				DRAWN BSD						DNWTP SOLIDS DEWATERING IMPROVEMENT PROJECT		BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO.
				CHECKED JB								0  1"	03C01
 REV	7/2/2025	MF	DRAWING REPLACED PER ADDENDUM NO.1	DATE JUNE 2025						CIVIL		SHEET NO.	
	DATE	BY	DESCRIPTION		YARD PIPING PROFILE 1		IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY		39 OF 162				

Plot Date: 1/23/2025 8:16 AM

A

B

C

D

E

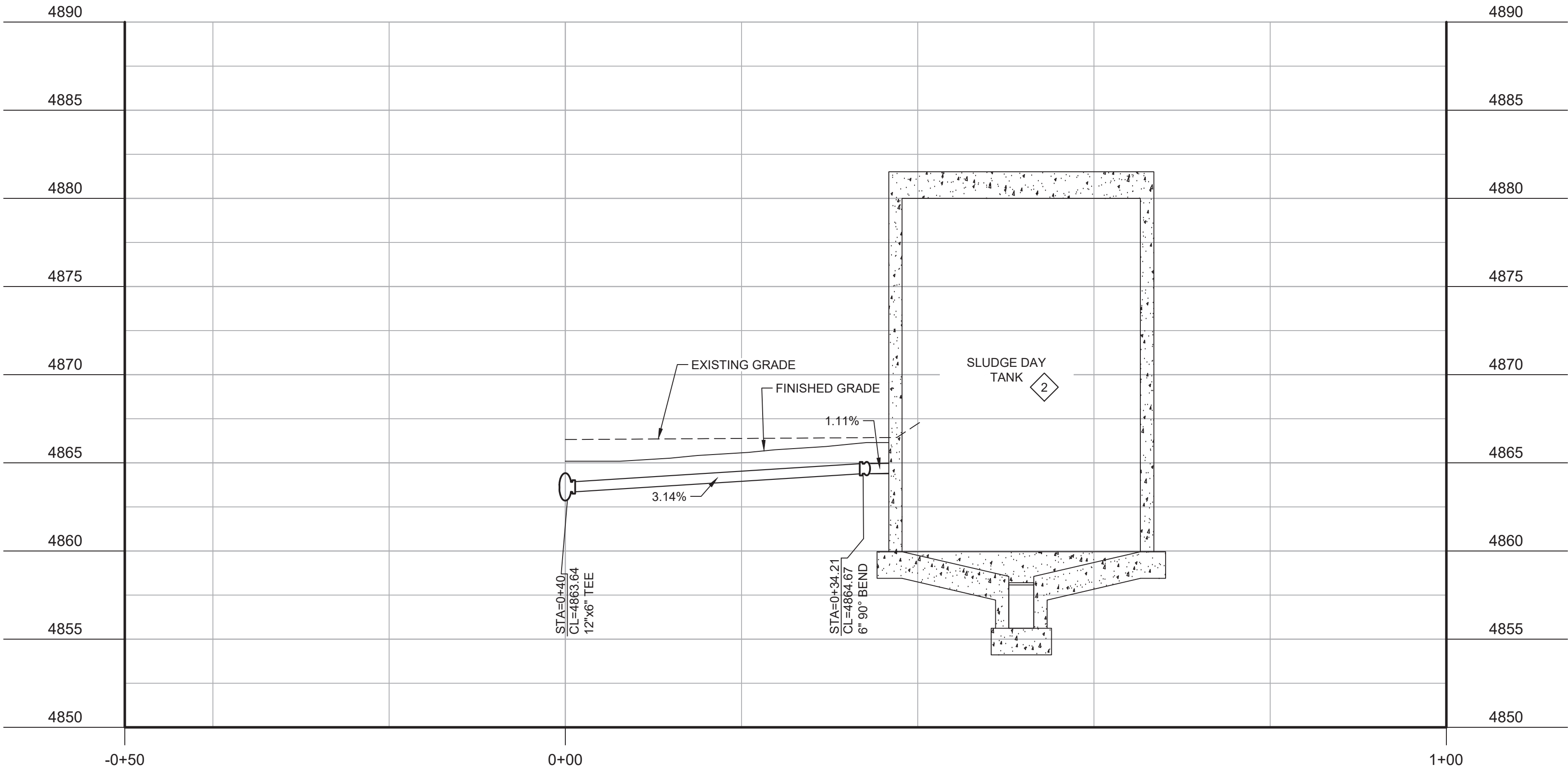
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G

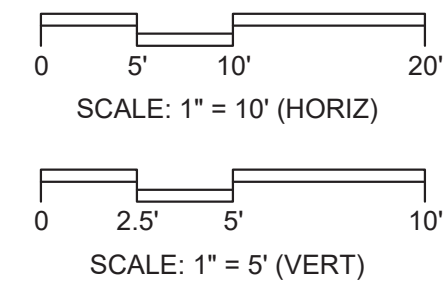
LAST SAVED BY: JLeFevre

KEY NOTES:

1. INSTALL NEW 12" TE PIPELINE AS PERMANENT WHEN ROUTING AROUND CONSTRUCTION AREA. LEAVE BLIND FLANGE ON TEE WHERE FUTURE 6" OF FROM NEW SLUDGE DAY TANK CONNECTS.
2. INTERIOR OVERFLOW BOX NOT SHOWN INSIDE THE SLUDGE DAY TANK.



6" OF 1
B PROFILE
02C02 FILE: FILE



1				
2				
3				
4				
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13				

DESIGNED	MF
DRAWN	BSD
CHECKED	JB
DATE	JUNE 2025



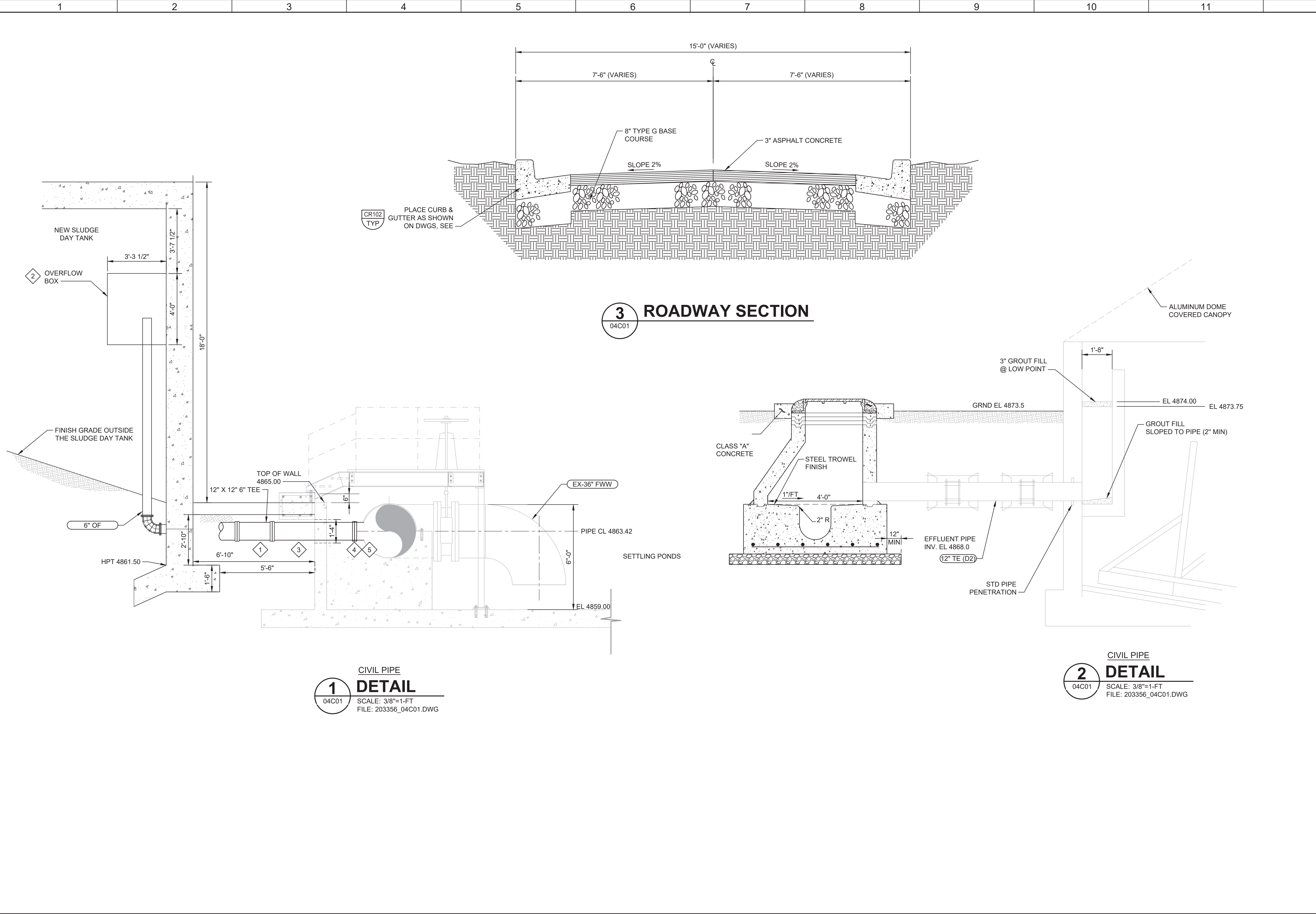
WEBER BASIN WATER CONSERVANCY DISTRICT
DNWTP SOLIDS DEWATERING IMPROVEMENT PROJECT
CIVIL
YARD PIPING PROFILE 2

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
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IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO.	203356
DRAWING NO.	03C02
SHEET NO.	40 OF 162

Plot Date: 1/23/2025 8:16 AM

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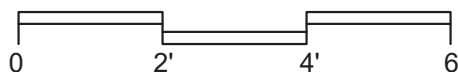


- # KEY NOTES:
- CONNECT 6" OVERFLOW PIPELINE FROM THE SLUDGE DAY TANK TO THE 12" TE FROM GRAVITY THICKENER NO. 2 AT PIPE CL 4863.42 AS THE EXISTING 36" FWW PIPELINE IN THE SETTLING PONDS.
 - SEE PROCESS MECHANICAL DRAWINGS FOR OVERFLOW PIPING DETAILS WHERE LOCATED INSIDE THE NEW SLUDGE DAY TANK.
 - CORE EXISTING SETTLING POND CONCRETE WALL FOR 12" TE PIPE FROM GRAVITY THICKENER NO. 2.
 - WELD ON A 12" ROMAC FTS445 WELD-ON TAPPING SLEEVE OR EQUAL. FOLLOW MANUFACTURER INSTRUCTIONS FOR WELDING INSIDE AND OUT OF SLEEVE. VERIFY THICKNESS AND INTERIOR COATING OF EXISTING STEEL PIPE. THIS WORK MAY ONLY BE PERFORMED WITHIN 36 HOURS DURING LOW WATER DEMAND PERIODS DURING THE WINTER MONTHS WHERE PLANT FILTER BACKWASHES ARE REDUCED. PREPARE AND SUBMIT AN MOP TO THE OWNER AT LEAST TWO WEEKS IN ADVANCE SO OWNER CAN SCHEDULE FILTER BACKWASHES TO ACCOMMODATE THIS WORK.
 - INSULATED FLANGE CONNECTION FOR DISSIMILAR METALS.



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SCALE



REV	DATE	BY	DESCRIPTION
1	7/2/2025	MF	DRAWING REPLACED PER ADDENDUM NO.1

DESIGNED MF
DRAWN BSD
CHECKED JB
DATE JUNE 2025



WEBER BASIN WATER
CONSERVANCY DISTRICT






WEBER BASIN WATER CONSERVANCY DISTRICT
DNWTP SOLIDS DEWATERING IMPROVEMENT PROJECT
CIVIL
CIVIL DETAILS

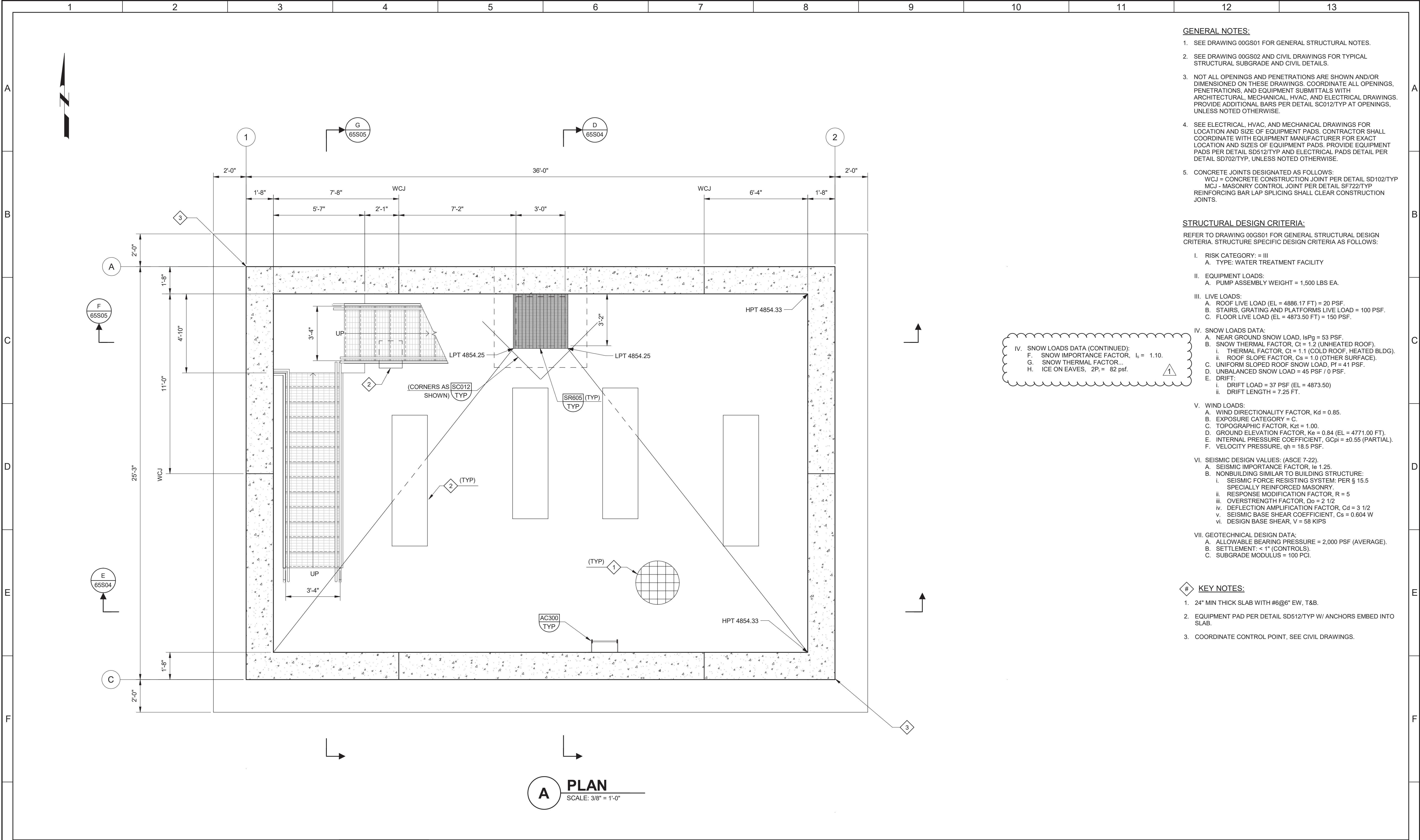
VERIFY SCALES

BAR IS ONE INCH ON
ORIGINAL DRAWING

IF NOT ONE INCH ON
THIS SHEET, ADJUST
SCALES ACCORDINGLY

JOB NO. 203356
DRAWING NO. 04C01
SHEET NO. 41 OF 162

A	GENERAL NOTES: 1. USE STRUCTURAL DRAWINGS IN CONJUNCTION WITH PROJECT DRAWINGS BY OTHER DISCIPLINES AND WITH THE SPECIFICATIONS. 2. UNLESS DETAILED, SPECIFIED, OR INDICATED OTHERWISE, CONSTRUCTION SHALL BE AS INDICATED IN THE GENERAL NOTES AND TYPICAL DETAILS. 3. PRESENTATION CONVENTIONS FOR STRUCTURAL DRAWINGS: A. SCREENED LINE WORK INDICATES EXISTING CONDITIONS. B. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED SIZES. C. PLANS ARE TREATED AS HORIZONTAL SECTIONS. (I.E.: "PLAN AT ELEVATION 110" SHOWS CONSTRUCTION AT AND BELOW ELEVATION 110.) 4. VERIFY DIMENSIONS AND CONDITIONS BEFORE BEGINNING WORK. ADVISE ENGINEER IMMEDIATELY OF DISCREPANCIES BETWEEN EXISTING CONDITIONS AND DIMENSIONS, AND INFORMATION SHOWN ON THESE DRAWINGS. CONFIRM THE FOLLOWING BEFORE PREPARATION AND SUBMITTAL OF SHOP DRAWINGS: A. DIMENSIONS AND WEIGHTS FOR EQUIPMENT SELECTED. B. SIZES AND LOCATIONS OF EQUIPMENT PADS FOR EQUIPMENT SELECTED. 5. TYPICAL DETAILS ARE INCLUDED ON THE "TS" DRAWINGS. A. TYPICAL DETAILS ARE INTENDED TO APPLY AT LOCATIONS DESCRIBED BY THEIR TITLES, EVEN WHEN NOT SPECIFICALLY REFERENCED ON THE DRAWINGS. B. IN STRUCTURAL TYPICAL DETAILS, ORIENTATION OF BARS IN EACH MAT OF REINFORCEMENT (WHETHER "LINES" OR "DOTS" ARE CLOSER TO THE FACE OF THE CONCRETE) IS GENERALLY ARBITRARY. SEE DRAWINGS OF EACH STRUCTURE FOR ORIENTATION REQUIRED AT THAT STRUCTURE. 6. SEE CIVIL DRAWINGS FOR STRUCTURE COORDINATES. POINTS ON THE STRUCTURES TO WHICH SITE COORDINATES REFER ARE SHOWN ON THE STRUCTURAL PLANS. 7. DRAWINGS PREPARED BY OTHER DISCIPLINES INCLUDE OPENINGS, ANCHORS, PIPES, CONDUITS, AND OTHER ITEMS THAT ARE EMBEDDED INTO OR PASS THROUGH STRUCTURES. A. CONFIRM SIZE AND LOCATIONS OF OPENINGS, PENETRATIONS AND EMBEDMENT FOR ITEMS AND EQUIPMENT FURNISHED. B. IN GENERAL, OPENINGS, EMBEDMENTS, AND PENETRATIONS LESS THAN 12 INCHES IN DIAMETER ARE NOT SHOWN ON THE STRUCTURAL DRAWINGS. C. SEE MECHANICAL DRAWINGS FOR DETAILS OF PIPE PENETRATIONS, PIPE SUPPORTS, AND ASSOCIATED STRUCTURAL REQUIREMENTS. D. SEE MECHANICAL DRAWINGS FOR EQUIPMENT PADS AND PIPE SUPPORTS. 8. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS AND SIZES OF DOOR AND WINDOW OPENINGS.			GEOTECHNICAL REPORT / FOUNDATION DESIGN CRITERIA: 1. GEOTECHNICAL INVESTIGATION REPORT: TITLE: WBWCD DNWTP SOLIDS DEWATERING IMPROVEMENT PROJECT. PREPARED BY: RB&G ENGINEERING, INC. REPORT NO: 202101-039. DATED: OCTOBER 2024. 2. FOUNDATION DESIGNS ARE BASED ON RECOMMENDATIONS IN THE GEOTECHNICAL INVESTIGATION REPORT. A. NET ALLOWABLE BEARING PRESSURE SEE PLANS. B. FROST DEPTH: 30 IN. C. LATERAL EARTH PRESSURE (UNO): SURCHARGE: EQUIVALENT TO 2 FEET OF SOIL ABOVE FINISHED GRADE. <table><tr><td></td><td>ON-SITE</td><td>IMPORTED</td></tr><tr><td>UNIT SOILS WEIGHT, γ: 125 PCF</td><td>SILTY SAND</td><td>SANDY GRAVEL</td></tr><tr><td>ACTIVE K_a (PSF/FT):</td><td>0.28 (35)</td><td>0.27 (34)</td></tr><tr><td>AT-REST, K₀ (PSF/FT):</td><td>0.44 (55)</td><td>0.43 (54)</td></tr><tr><td>PASSIVE, K_p (PSF/FT):</td><td>3.5 (437)</td><td>3.6 (450)</td></tr><tr><td>SEISMIC ACTIVE ADDITION, ΔK_{ae} (PSF/FT):</td><td>0.25 (31)</td><td>0.24 (30)</td></tr><tr><td>SEISMIC PASSIVE REDUCTION, ΔK_{ap} (PSF/FT):</td><td>0.65 (81)</td><td>0.61 (76)</td></tr><tr><td>SLIDING COEFFICIENT OF FRICTION, μ</td><td>0.67</td><td>0.67</td></tr></table> D. GROUNDWATER EL 4806.00 FT (70 FT BGS).				ON-SITE	IMPORTED	UNIT SOILS WEIGHT, γ: 125 PCF	SILTY SAND	SANDY GRAVEL	ACTIVE K _a (PSF/FT):	0.28 (35)	0.27 (34)	AT-REST, K ₀ (PSF/FT):	0.44 (55)	0.43 (54)	PASSIVE, K _p (PSF/FT):	3.5 (437)	3.6 (450)	SEISMIC ACTIVE ADDITION, ΔK _{ae} (PSF/FT):	0.25 (31)	0.24 (30)	SEISMIC PASSIVE REDUCTION, ΔK _{ap} (PSF/FT):	0.65 (81)	0.61 (76)	SLIDING COEFFICIENT OF FRICTION, μ	0.67	0.67	STRUCTURAL ALUMINUM: 1. SECTIONS A. SHAPES: ASTM B308, ALLOY 6061-T6. B. SHEET AND PLATE: ASTM B209, ALLOY 6061-T6. 2. BOLTED CONNECTIONS - BOLTS AND ANCHOR BOLTS: A. STAINLESS STEEL - TYPE 316, ASTM F593, GRADE B8M, CLASS 1, HEAVY HEX. 3. WELDED CONNECTIONS: A. GAS METAL ARC (MIG) OR GAS TUNGSTEN ARC (TIG) PROCESS USING FILLER ALLOY 4043 ELECTRODES. CONSTRUCTION: CONFORM TO THE FOLLOWING REQUIREMENTS UNLESS OTHERWISE INDICATED ON THE DRAWINGS. EXCAVATION AND BACKFILLING: 1. EXPOSE AND PREPARE SUBGRADE AS SHOWN ON THE DRAWINGS AND SPECIFIED. OBTAIN ENGINEER'S OBSERVATION OF SUBGRADE SURFACES, AS EXPOSED AND AS PREPARED, BEFORE PROCEEDING WITH FOUNDATION CONSTRUCTION. 2. DO NOT PLACE BACKFILL AGAINST WALLS UNTIL STRUCTURES SUPPORTING THE TOP OF THE WALL ARE IN PLACE, ARE COMPLETE, AND (IN THE CASE OF CONCRETE) HAVE CURED TO THEIR MINIMUM SPECIFIED 28-DAY COMPRESSIVE STRENGTH. 3. WHERE BACKFILL MUST BE PLACED AGAINST WALLS BEFORE STRUCTURES ABOVE ARE COMPLETE, PROVIDE BRACING FOR WALLS. KEEP BRACING IN PLACE UNTIL THE STRUCTURE ABOVE IS COMPLETE AND (IN THE CASE OF CONCRETE) HAS CURED TO ITS MINIMUM SPECIFIED 28-DAY COMPRESSIVE STRENGTH. CONCRETE: 1. SEE SC001/TYP FOR CONCRETE NOTES, INCLUDING CLEAR COVER AND LAP SPLICE LENGTH REQUIREMENTS FOR REINFORCING. 2. SUBMIT LOCATIONS OF CONSTRUCTION JOINTS NOT SHOWN ON THE DRAWINGS FOR ACCEPTANCE BY THE ENGINEER BEFORE FORM LAYOUT. 3. PROVIDE CHAMFER AT EXPOSED EDGES OF CAST-IN-PLACE CONCRETE. SEE SPECIFICATION (03_11_07) FOR CHAMFERS. 4. PROVIDE REINFORCING: A. AT CORNERS AND JUNCTIONS - AS INDICATED IN SC310/TYP, SUPPLEMENT WITH ADDED BARS WHERE INDICATED ON THE DRAWINGS. B. AT OPENINGS - AS INDICATED IN SC012/TYP. 5. WELDING OF REINFORCING IS NOT PERMITTED UNLESS DETAILED ON THE DRAWINGS OR ACCEPTED IN ADVANCE BY THE ENGINEER. 6. MAINTAIN MINIMUM 3 INCHES CLEAR CONCRETE COVER BETWEEN REINFORCING AND EMBEDMENTS. 7. FINISH CONCRETE AS SPECIFIED IN SECTION (03_35_29). 8. CONCRETE PADS A.  EQUIPMENT PAD SEE SD512/TYP. B.  HOUSEKEEPING PAD FOR ELECTRICAL EQUIPMENT SEE SD702/TYP. MASONRY: 1. SEE SF002/TYP FOR MASONRY NOTES, INCLUDING LAP SPLICE LENGTHS. 2. PROVIDE REINFORCING: A. AT CORNERS AND JUNCTIONS AS INDICATED IN SF230/TYP. B. AT OPENINGS AS INDICATED IN SF220/TYP. 3. WELDING OF REINFORCING IS NOT PERMITTED UNLESS DETAILED ON THE DRAWINGS OR ACCEPTED IN ADVANCE BY THE ENGINEER. 4. GROUTING: A. FULLY GROUTED. STEEL, STAINLESS STEEL, AND ALUMINUM - CONNECTIONS: 1. BOLTED: A. MADE USING 3/4-INCH DIAMETER BOLTS. B. HAVING A MINIMUM OF 2 BOLTS, SPACED NOT CLOSER THAN 3 INCHES ON CENTER. C. WITH A DISTANCE OF AT LEAST 1 1/2 INCHES FROM CENTER OF BOLT TO ANY EDGE OF A PLATE OR STRUCTURAL ELEMENT. 2. WELDED: A. FILLET WELDS: PER AWS CODE BASED ON THE THICKNESS OF THE MATERIALS BEING JOINED, AND FULL LENGTH OF THE JOINT. 3. INTERFACE BETWEEN MATERIALS: A. AT BOLTED CONNECTIONS THAT INCLUDE DIFFERENT METALS (E.G.: STEEL AND STAINLESS STEEL, OR ALUMINUM AND STEEL) PROVIDE ISOLATING SLEEVES AND WASHERS AS SPECIFIED IN SECTION (05_05_24). B. WHERE ALUMINUM IS IN CONTACT WITH MASONRY OR CONCRETE, COAT ALUMINUM SURFACES AS SPECIFIED IN SECTION (09_96_01). 4. POST-INSTALLED ANCHORS IN CONCRETE AND MASONRY: A. INSTALL IN FULL COMPLIANCE WITH ACCEPTED BUILDING CODE EVALUATION REPORT AND MANUFACTURER'S INSTRUCTIONS. B. DO NOT CUT, DAMAGE, OR INTERRUPT EXISTING REINFORCEMENT TO INSTALL ANCHORS. USE NON-DESTRUCTIVE TESTING EQUIPMENT TO IDENTIFY LOCATIONS OF REINFORCEMENT IN MEMBERS BEFORE DRILLING HOLES FOR ANCHORS.			METAL FABRICATIONS: 1. HANDRAILS AND GUARDRAILS: A. ALUMINUM, EXCEPT WHERE OTHER MATERIALS ARE NOTED. 2. GRATING: A. ALUMINUM WITH TYPE 316 STAINLESS STEEL FASTENERS, UNLESS OTHERWISE NOTED. B. GRATING AND ITS SEATS OR SUPPORTS SHALL BE OF THE SAME MATERIAL. C. UNLESS INDICATED ON THE DRAWINGS AS "REMOVABLE GRATING", SECURELY FASTEN GRATING TO SUPPORTS AS INDICATED IN SR601/TYP. 3. COVER PLATES: A. ALUMINUM WITH TYPE 316 STAINLESS STEEL FASTENERS, UNLESS OTHERWISE NOTED. B. COVER PLATE AND ITS SEATS OR SUPPORTS SHALL BE OF THE SAME MATERIAL. SPECIAL INSPECTION: 1. SPECIAL INSPECTION IS REQUIRED FOR THE FOLLOWING STRUCTURAL MATERIALS AND CONSTRUCTION. SEE SPECIFICATION SECTION (01_45_24) FOR DETAILS. 2. DIVISION 2(31) SITE CONSTRUCTION (EARTHWORK) A. EXCAVATION DEPTH. B. ADEQUACY OF EXPOSED SURFACE TO PROVIDE REQUIRED SUPPORT. C. PREPARATION OF SOILS/SURFACES SUPPORTING CONSTRUCTION. D. FILL AND BACKFILL. 3. DIVISION 3(03) CONCRETE: A. LOCATIONS. B. FORMWORK AND MEMBER SIZES. C. REINFORCING STEEL. D. ANCHORS: CAST-IN AND POST-INSTALLED. E. CONCRETE MIX AND PLACEMENT F. PROTECTION AND CURING PROCEDURES. 4. DIVISION 4(04) MASONRY A. LOCATIONS. B. MEMBER SIZES. C. REINFORCING STEEL. D. ANCHORS: BUILT-IN AND POST-INSTALLED. E. MORTAR AND JOINTS. F. GROUT AND GROUTING. G. PROTECTION AND CURING PROCEDURES. 5. DIVISION 5(05) METALS A. GENERAL. ALL METALS: 1) MEMBER LOCATIONS. 2) MEMBER SIZES/TYPES. 3) ANCHORS - CAST-IN AND BUILT-IN ANCHOR BOLTS. 4) ANCHORS - POST-INSTALLED MECHANICAL AND ADHESIVE. B. STRUCTURAL STEEL (CARBON AND STAINLESS). 1) HIGH-STRENGTH BOLTING. 2) WELDING. C. STRUCTURAL ALUMINUM. 1) BOLTING. 2) WELDING. D. STEEL JOISTS AND JOIST GIRDERS. 1) CONNECTIONS. 2) BRACING. E. STEEL DECKING. 1) CONNECTIONS TO SUPPORTS. 2) SIDE CONNECTIONS BETWEEN ADJACENT SHEETS. F. COLD-FORMED STEEL LIGHT-FRAME CONSTRUCTION. 6. DIVISION 6(06) WOOD, PLASTICS AND COMPOSITES. STRUCTURAL OBSERVATION: 1. STRUCTURAL OBSERVATION IS REQUIRED DURING AND AT SPECIFIC STAGES OF CONSTRUCTION. SEE SPECIFICATION SECTION (01_45_24) FOR DETAILS.			STRUCTURAL SYMBOLS: 1. SEE DRAWING 00G03 FOR KEY TO DRAWING TITLES AND SECTION CUTS, AND FOR DEFINITION OF MATERIALS SHADING PATTERNS. 2. WELDING: SYMBOLS: IN ACCORDANCE WITH AMERICAN WELDING SOCIETY (AWS) A2.4. STRUCTURAL ABBREVIATIONS: 1. SEE DRAWING 00G04 FOR GENERAL LIST OF ABBREVIATIONS USED ON DRAWINGS. 2. ABBREVIATIONS FOR NAMES OF TECHNICAL GROUPS MAY BE FOUND IN THE PROJECT SPECIFICATIONS. 3. STRUCTURAL MEMBERS: A. STEEL: ABBREVIATIONS AND DESIGNATIONS ARE IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION'S STEEL CONSTRUCTION MANUAL, CURRENT EDITION. B. ALUMINUM: ABBREVIATIONS AND DESIGNATIONS ARE IN ACCORDANCE WITH THE ALUMINUM ASSOCIATION'S ALUMINUM DESIGN MANUAL, CURRENT EDITION.		
		ON-SITE	IMPORTED																																				
	UNIT SOILS WEIGHT, γ: 125 PCF	SILTY SAND	SANDY GRAVEL																																				
	ACTIVE K _a (PSF/FT):	0.28 (35)	0.27 (34)																																				
	AT-REST, K ₀ (PSF/FT):	0.44 (55)	0.43 (54)																																				
	PASSIVE, K _p (PSF/FT):	3.5 (437)	3.6 (450)																																				
	SEISMIC ACTIVE ADDITION, ΔK _{ae} (PSF/FT):	0.25 (31)	0.24 (30)																																				
	SEISMIC PASSIVE REDUCTION, ΔK _{ap} (PSF/FT):	0.65 (81)	0.61 (76)																																				
	SLIDING COEFFICIENT OF FRICTION, μ	0.67	0.67																																				
	B	STRUCTURAL DESIGN CRITERIA - GENERAL: SEE DRAWINGS OF INDIVIDUAL STRUCTURES FOR SPECIFIC DESIGN CRITERIA BASED ON THESE OVERALL CRITERIA FOR THE SITE. 1. BUILDING CODE: A. 2021 INTERNATIONAL BUILDING CODE ("IBC 2021") WITH ASCE 7-16. B. LOCAL AMENDMENTS: UTAH TITLE CODE 15A. 2. STRUCTURE RISK CATEGORY: SEE PLANS FOR EACH STRUCTURE. 3. DEAD LOADS: CALCULATED FOR STRUCTURE SELF-WEIGHT. 4. LIVE LOADS: (REDUCTIONS NOT USED) A. FLOOR LIVE LOADS: SEE PLANS. B. GRATING AND CHECKER PLATE LIVE LOAD: 100 PSF (UNO). C. ROOF LIVE LOADS: SEE PLANS (20 PSF MINIMUM). D. EQUIPMENT LOADS: SEE PLANS. E. CONCENTRATED AND IMPACT LOADS: SEE PLANS. 5. FLUID PRESSURE LOADS: 63 PSF/FT (UNO). 6. SNOW LOAD DATA: A. GROUND SNOW LOAD, Pg = 48 PSF (UTAH STATE STUDY). B. SURFACE ROUGHNESS CATEGORY: B. C. SNOW EXPOSURE FACTOR, Ce =1.0 (PARTIALLY EXPOSED, UNO). 7. WIND DESIGN DATA: A. SPECIAL WIND REGION: NO. B. WIND-BORNE DEBRIS REGION: NO. C. BASIC WIND SPEED (3 SEC GUST, 33 FEET ABOVE GROUND): V = 110 MPH. 8. EARTHQUAKE DESIGN DATA: A. SITE CLASS: CD (ASCE 7-22). B. SITE RESPONSE ANALYSIS REQUIRED: NO. C. SPECTRAL RESPONSE ACCELERATIONS: D. ADJUSTED FOR SITE CLASS EFFECTS MCER:* E. DESIGN: F. SHEAR WAVE VELOCITY, v _s = 1070 ft/s. G. SITE RESPONSE ANALYSIS... H. LONG-PERIOD TRANSITION PERIOD, T _L = 8 sec. I. SEISMIC DESIGN CATEGORY: D. 9. FLOOD LOADS: A. FLOOD ZONE AREA NO. 1 1) REFERENCE MAP ("FIRM"): 49011C0231F (09/15/2022). 2) HAZARD ZONE CATEGORY: X (UNSHADED). 3) DESIGN FLOOD ELEVATION: N/A FT. RETURN INTERVAL: N/A YR. 10. RAIN LOADS: A. DESIGN RAINFALL INTENSITY: i = 2.35 IN / HR (100 YEAR/1 HOUR EVENT). 11. ICE LOADS: A. NOMINAL UNIFORM ICE THICKNESS: t = 0.25 IN W/ 40 MPH 3-SEC WIND GUST. B. ICE DENSITY FOR ICE WEIGHT: 56 PCF (MIN). 12. CONSTRUCTION LOADS: STRUCTURES HAVE BEEN DESIGNED FOR OPERATING LOADS ON COMPLETED FACILITIES. UNTIL CONSTRUCTION IS COMPLETE AND MEMBERS HAVE ACHIEVED THEIR DESIGN STRENGTH, PROTECT STRUCTURES AS REQUIRED BY SHORING, BRACING, AND BALANCING.			TYPICAL STRUCTURAL MATERIALS: 1. MATERIALS SHALL CONFORM TO THE FOLLOWING REQUIREMENTS UNLESS OTHERWISE INDICATED ON THE DRAWINGS. 2. SEE PROJECT SPECIFICATIONS AND NOTES ON DRAWINGS OF SPECIFIC STRUCTURES FOR DETAILED AND LOCATION-SPECIFIC REQUIREMENTS. REINFORCING STEEL (FOR CONCRETE AND MASONRY): 1. DEFORMED BARS: A. TYPICAL: ASTM A615, GRADE 60. B. WHERE INDICATED ON THE DRAWINGS: ASTM A706. 2. WELDED WIRE FABRIC: ASTM A064. 3. HORIZ SEISMIC JOINT REINF AND HOOK (FOR VENEER: ASTM A 951, 3/16" DIA TRUSS WIRE) CONCRETE: 1. NORMAL DENSITY. 2. MINIMUM SPECIFIED CONCRETE COMPRESSIVE STRENGTH, f _c (AT 28 DAYS UNO). A. STRUCTURES: "CLASS A" OR "CLASS A-NA" f _c = 4500 PSI B. FILL AND THRUST BLOCKS: "CLASS C" f _c = 2500 PSI. C. PIPE ENCASEMENT: "CLASS A-NA" f _c = 4000 PSI. D. ELECTRICAL DUCT ENCASEMENT: "CLASS CE" f _c = 3000 PSI. MASONRY: 1. CONCRETE MASONRY A. UNITS: ASTM C90, NORMAL WEIGHT. B. MORTAR: ASTM C270, TYPE S. C. GROUT: ASTM C476. MINIMUM 28-DAY COMPRESSIVE STRENGTH = 2000 PSI. D. MINIMUM SPECIFIED COMPRESSIVE STRENGTH, f _m (AT 28 DAYS). 1. SOLID GROUTED: f _m = 2000 PSI. STRUCTURAL STEEL: 1. SECTIONS A. SHAPES W, WT: ASTM A 992 (Fy = 50 KSI) B. SHAPES S, ST, M, MT, HP, C, MC, L: ASTM A 36 (Fy = 36 KSI) C. PLATES AND BARS: ASTM A 36 (Fy = 36 KSI) D. PIPES: ASTM A 53, GRADE B (Fy = 35 KSI) E. HOLLOW STRUCTURAL SECTIONS: ROUND: ASTM A 500, GRADE C (Fy = 46 KSI) SQUARE AND RECTANGULAR: ASTM A 500, GRADE C (Fy = 50 KSI) 2. CONNECTIONS: A. BOLTS - STEEL TO-STEEL: ASTM F 3125 GRADE A325 HIGH-STRENGTH BOLTS, WITH LOAD INDICATOR WASHERS. B. BOLTS - STEEL TO CONCRETE OR MASONRY: ANCHOR BOLTS WITH HEX FORGED HEAD. ASTM F 593, STAINLESS TYPE 316 (304) ASTM F 1554, GRADE 36 GALVANIZED. C. WELDS - SHIELDED METAL ARC PROCESS USING E70-XX ELECTRODES. STAINLESS STEEL: 1. ANSI TYPE 316/316L EXCEPT WHERE TYPE 304/304L IS INDICATED ON THE DRAWINGS. 2. SECTIONS: SHAPES AND BARS: ASTM A276. 3. BOLTED CONNECTIONS - BOLTS AND ANCHOR BOLTS: A. MATCH ALLOY OF THE STRUCTURAL MEMBERS CONNECTED. B. TYPE 316/316L: ASTM F593, GRADE B8M, CLASS 1, HEAVY HEX. C. TYPE 304/304L: ASTM F593, GRADE B8, CLASS 1, HEAVY HEX. 4. WELDED CONNECTIONS: A. TYPE 316L: E316L-15 ELECTRODES. B. TYPE 304L: E304L-15 ELECTRODES.			 			WEBER BASIN WATER CONSERVANCY DISTRICT DNWTP SOLIDS DEWATERING IMPROVEMENT PROJECT STRUCTURAL GENERAL NOTES			VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING 0  1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY		JOB NO. 203356 DRAWING NO. 00GS01 SHEET NO. 49 OF 162																							
PROJECT NO.			FILE NAME: ProjNum_00GS01.dwg																																				



GENERAL NOTES:

- SEE DRAWING 00GS01 FOR GENERAL STRUCTURAL NOTES.
- SEE DRAWING 00GS02 AND CIVIL DRAWINGS FOR TYPICAL STRUCTURAL SUBGRADE AND CIVIL DETAILS.
- NOT ALL OPENINGS AND PENETRATIONS ARE SHOWN AND/OR DIMENSIONED ON THESE DRAWINGS. COORDINATE ALL OPENINGS, PENETRATIONS, AND EQUIPMENT SUBMITTALS WITH ARCHITECTURAL, MECHANICAL, HVAC, AND ELECTRICAL DRAWINGS. PROVIDE ADDITIONAL BARS PER DETAIL SC012/TYP AT OPENINGS, UNLESS NOTED OTHERWISE.
- SEE ELECTRICAL, HVAC, AND MECHANICAL DRAWINGS FOR LOCATION AND SIZE OF EQUIPMENT PADS. CONTRACTOR SHALL COORDINATE WITH EQUIPMENT MANUFACTURER FOR EXACT LOCATION AND SIZES OF EQUIPMENT PADS. PROVIDE EQUIPMENT PADS PER DETAIL SD512/TYP AND ELECTRICAL PADS DETAIL PER DETAIL SD702/TYP, UNLESS NOTED OTHERWISE.
- CONCRETE JOINTS DESIGNATED AS FOLLOWS:
WCJ = CONCRETE CONSTRUCTION JOINT PER DETAIL SD102/TYP
MCJ = MASONRY CONTROL JOINT PER DETAIL SF722/TYP
REINFORCING BAR LAP SPlicing SHALL CLEAR CONSTRUCTION JOINTS.

STRUCTURAL DESIGN CRITERIA:

REFER TO DRAWING 00GS01 FOR GENERAL STRUCTURAL DESIGN CRITERIA. STRUCTURE SPECIFIC DESIGN CRITERIA AS FOLLOWS:

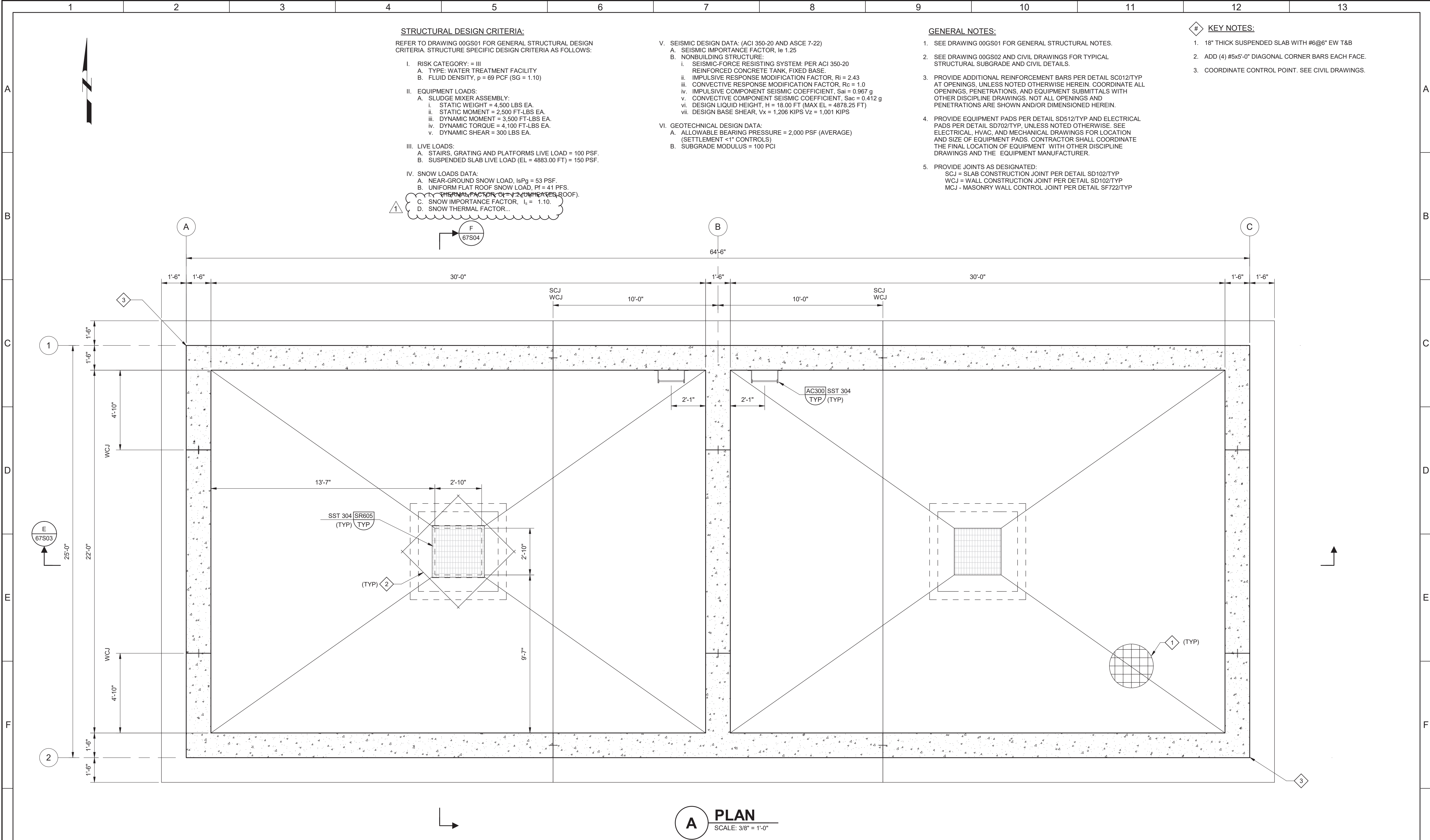
- RISK CATEGORY: = III
A. TYPE: WATER TREATMENT FACILITY
- EQUIPMENT LOADS:
A. PUMP ASSEMBLY WEIGHT = 1,500 LBS EA.
- LIVE LOADS:
A. ROOF LIVE LOAD (EL = 4886.17 FT) = 20 PSF.
B. STAIRS, GRATING AND PLATFORMS LIVE LOAD = 100 PSF.
C. FLOOR LIVE LOAD (EL = 4873.50 FT) = 150 PSF.
- SNOW LOADS DATA:
A. NEAR GROUND SNOW LOAD, $IsPg = 53$ PSF.
B. SNOW THERMAL FACTOR, $Ct = 1.2$ (UNHEATED ROOF).
i. THERMAL FACTOR, $Ct = 1.1$ (COLD ROOF, HEATED BLDG).
ii. ROOF SLOPE FACTOR, $Cs = 1.0$ (OTHER SURFACE).
C. UNIFORM SLOPED ROOF SNOW LOAD, $Pf = 41$ PSF.
D. UNBALANCED SNOW LOAD = 45 PSF / 0 PSF.
E. DRIFT:
i. DRIFT LOAD = 37 PSF (EL = 4873.50)
ii. DRIFT LENGTH = 7.25 FT.
- WIND LOADS:
A. WIND DIRECTIONALITY FACTOR, $Kd = 0.85$.
B. EXPOSURE CATEGORY = C.
C. TOPOGRAPHIC FACTOR, $Kzt = 1.00$.
D. GROUND ELEVATION FACTOR, $Ke = 0.84$ (EL = 4771.00 FT).
E. INTERNAL PRESSURE COEFFICIENT, $GCPi = \pm 0.55$ (PARTIAL).
F. VELOCITY PRESSURE, $qh = 18.5$ PSF.
- SEISMIC DESIGN VALUES: (ASCE 7-22).
A. SEISMIC IMPORTANCE FACTOR, $Ie = 1.25$.
B. NONBUILDING SIMILAR TO BUILDING STRUCTURE:
i. SEISMIC FORCE RESISTING SYSTEM: PER § 15.5
SPECIALLY REINFORCED MASONRY.
ii. RESPONSE MODIFICATION FACTOR, $R = 5$
iii. OVERSTRENGTH FACTOR, $Oo = 2 \frac{1}{2}$
iv. DEFLECTION AMPLIFICATION FACTOR, $Cd = 3 \frac{1}{2}$
v. SEISMIC BASE SHEAR COEFFICIENT, $Cs = 0.604$ W
vi. DESIGN BASE SHEAR, $V = 58$ KIPS
- GEOTECHNICAL DESIGN DATA:
A. ALLOWABLE BEARING PRESSURE = 2,000 PSF (AVERAGE).
B. SETTLEMENT: < 1" (CONTROLS).
C. SUBGRADE MODULUS = 100 PCI.

KEY NOTES:

- 24" MIN THICK SLAB WITH #6@6" EW, T&B.
- EQUIPMENT PAD PER DETAIL SD512/TYP W/ ANCHORS EMBED INTO SLAB.
- COORDINATE CONTROL POINT, SEE CIVIL DRAWINGS.

PLOT DATE: 6/9/2025 5:00:17 PM

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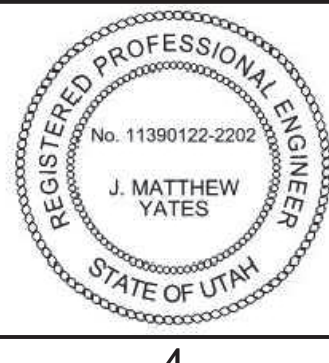


A PLAN
SCALE: 3/8" = 1'-0"

PLOT DATE: 6/6/2025 2:07:52 PM

REV	DATE	JMY	BY	DESCRIPTION
1	7/2/2025	JMY		ADDENDUM NO.1

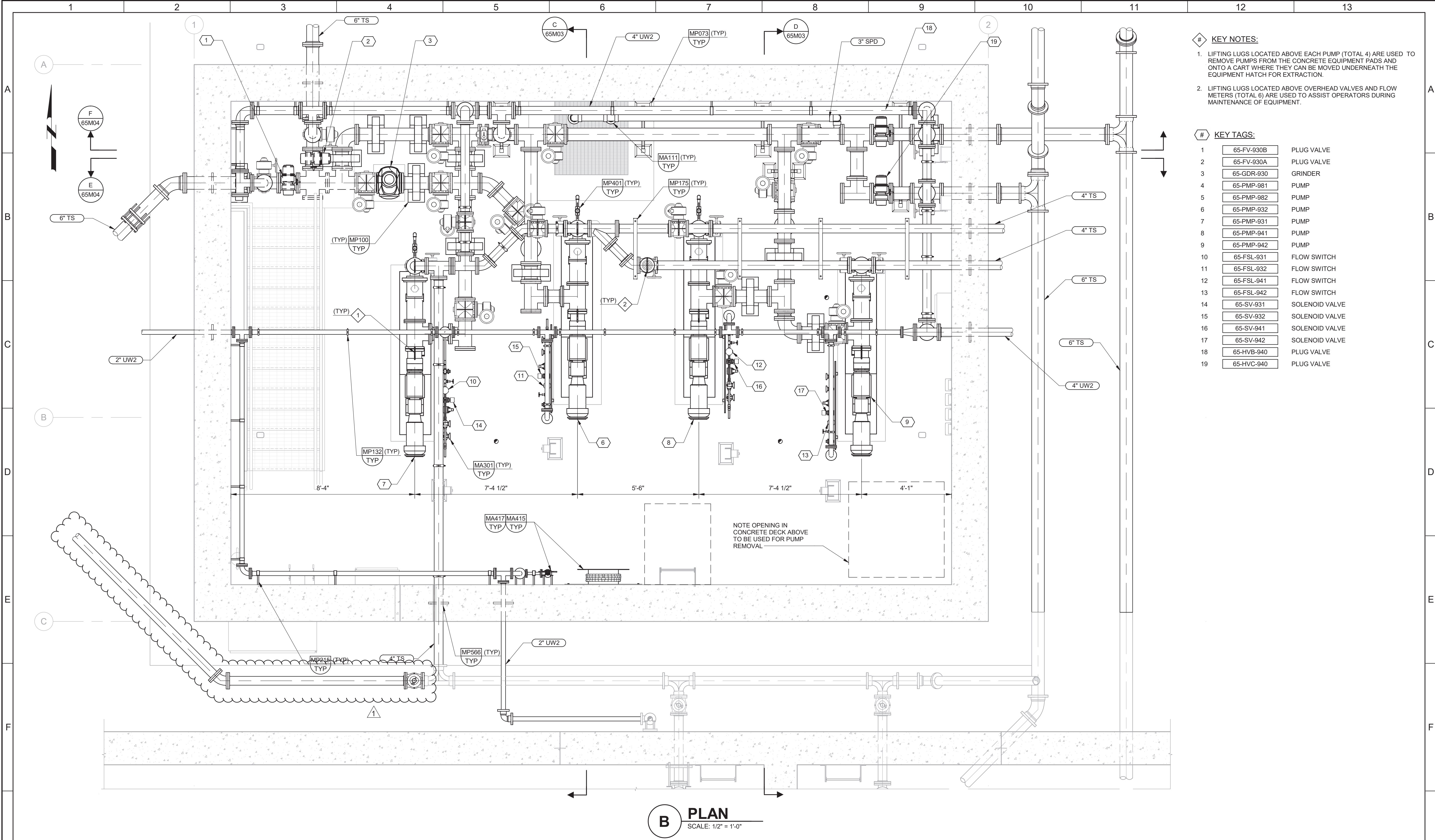
DESIGNED JMY
DRAWN JRL
CHECKED DCB
DATE JUNE 2025



WEBER BASIN WATER CONSERVANCY DISTRICT
DNWTP SOLIDS DEWATERING IMPROVEMENT PROJECT
STRUCTURAL
SLUDGE DAY TANKS
FOUNDATION PLAN

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO.
203356
DRAWING NO.
67S01
SHEET NO.
56 OF 162



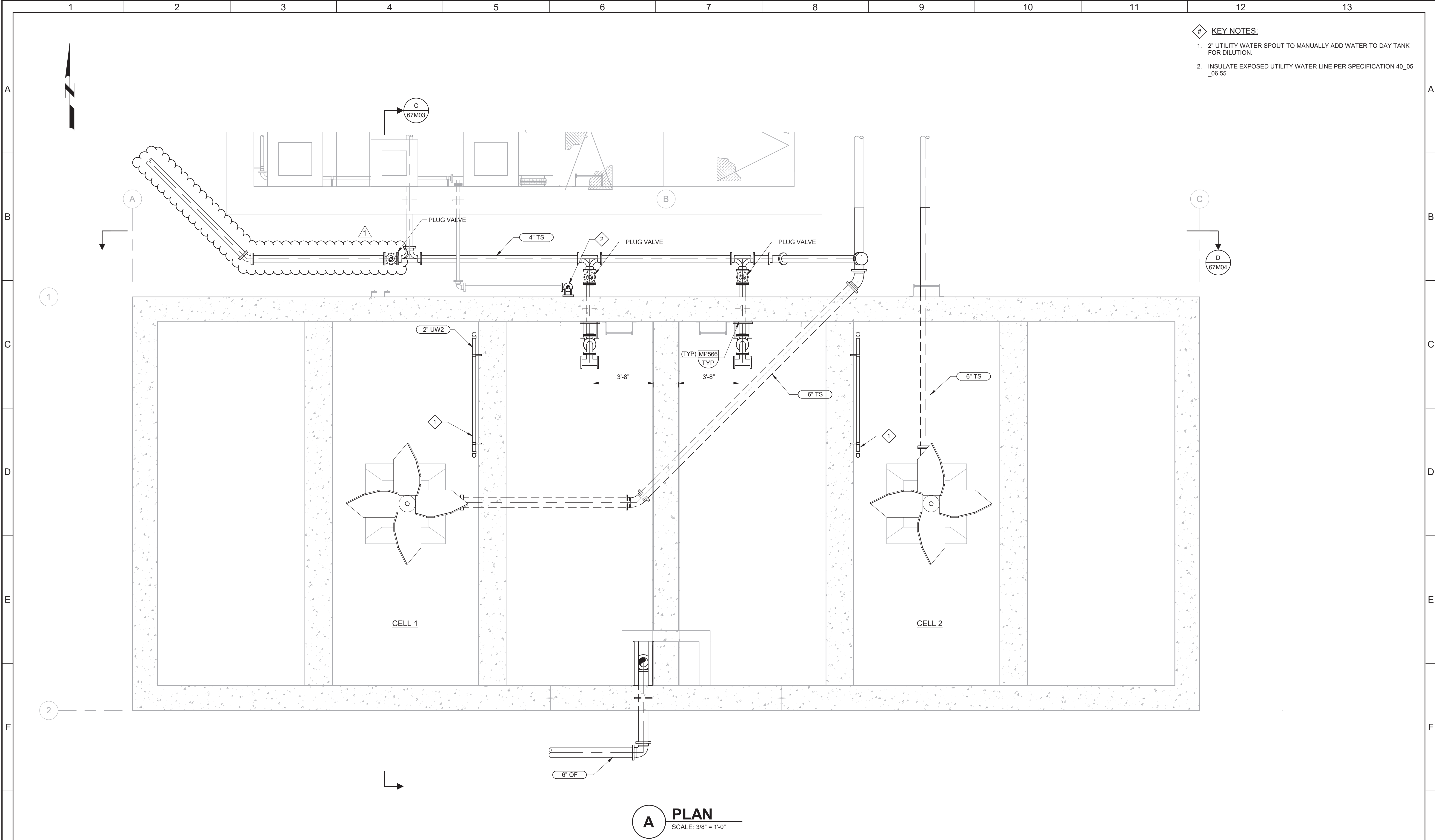
- KEY NOTES:**
1. LIFTING LUGS LOCATED ABOVE EACH PUMP (TOTAL 4) ARE USED TO REMOVE PUMPS FROM THE CONCRETE EQUIPMENT PADS AND ONTO A CART WHERE THEY CAN BE MOVED UNDERNEATH THE EQUIPMENT HATCH FOR EXTRACTION.
 2. LIFTING LUGS LOCATED ABOVE OVERHEAD VALVES AND FLOW METERS (TOTAL 6) ARE USED TO ASSIST OPERATORS DURING MAINTENANCE OF EQUIPMENT.

#	KEY TAGS:	
1	65-FV-930B	PLUG VALVE
2	65-FV-930A	PLUG VALVE
3	65-GDR-930	GRINDER
4	65-PMP-981	PUMP
5	65-PMP-982	PUMP
6	65-PMP-932	PUMP
7	65-PMP-931	PUMP
8	65-PMP-941	PUMP
9	65-PMP-942	PUMP
10	65-FSL-931	FLOW SWITCH
11	65-FSL-932	FLOW SWITCH
12	65-FSL-941	FLOW SWITCH
13	65-FSL-942	FLOW SWITCH
14	65-SV-931	SOLENOID VALVE
15	65-SV-932	SOLENOID VALVE
16	65-SV-941	SOLENOID VALVE
17	65-SV-942	SOLENOID VALVE
18	65-HVB-940	PLUG VALVE
19	65-HVC-940	PLUG VALVE

B PLAN
SCALE: 1/2" = 1'-0"

<div>DESIGNED MSF DRAWN DCS CHECKED MSF DATE JUNE 2025</div>				<div>REGISTERED PROFESSIONAL ENGINEER No. 270473-2202 RANDALL L. ZOLLINGER STATE OF UTAH</div>		<div> carollo</div>		<div> WEBER BASIN WATER CONSERVANCY DISTRICT</div>		<div>WEBER BASIN WATER CONSERVANCY DISTRICT DNWTP SOLIDS DEWATERING IMPROVEMENT PROJECT MECHANICAL SLUDGE PUMP STATION PLAN</div>				<div>VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY</div>		<div>JOB NO. 203356 DRAWING NO. 65M02 SHEET NO. 62 OF 162</div>	
<div>REVISIONS REV DATE BY DESCRIPTION</div>																	

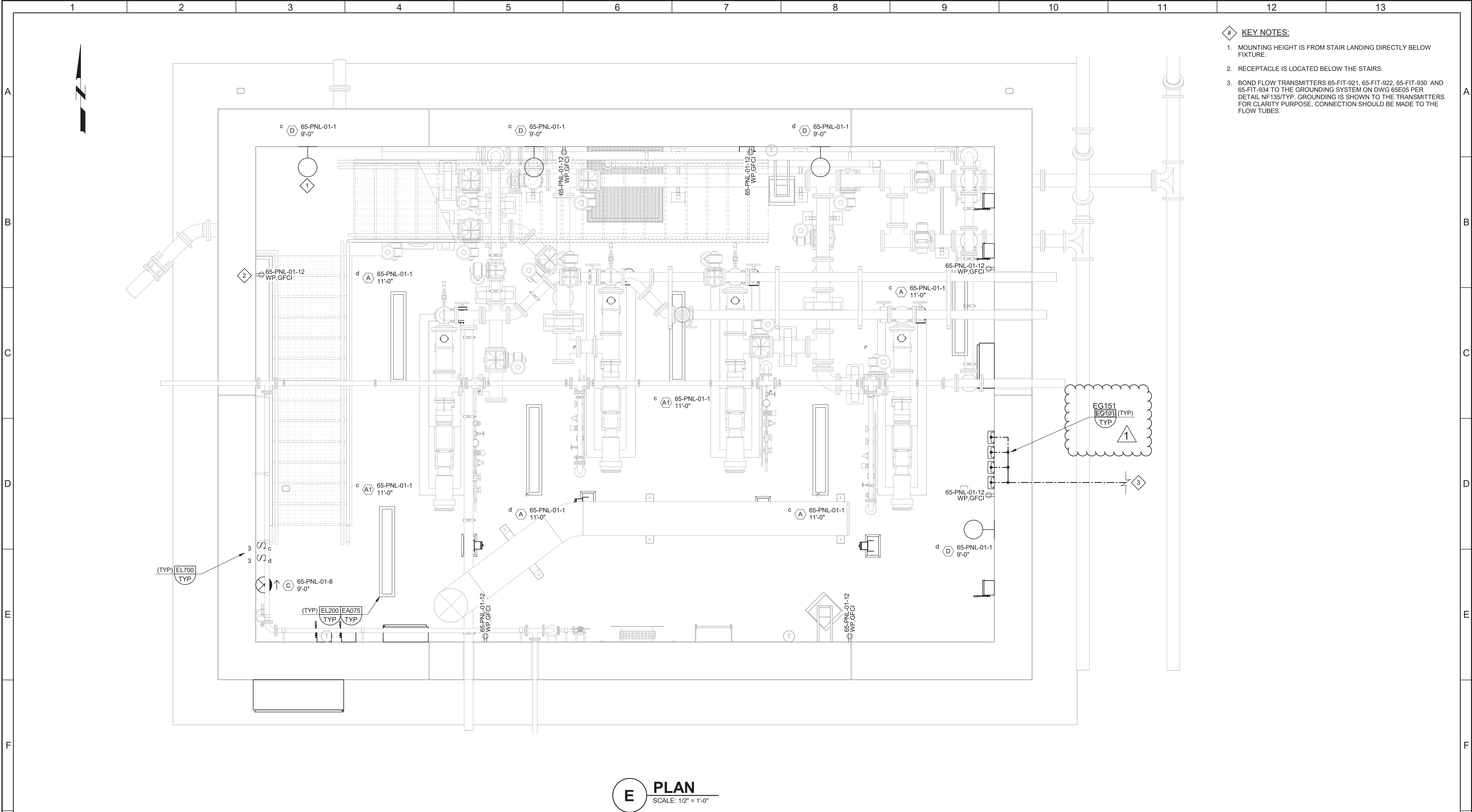
PLOT DATE: 6/10/2025 1:36:56 PM



- # KEY NOTES:
1. 2" UTILITY WATER SPOUT TO MANUALLY ADD WATER TO DAY TANK FOR DILUTION.
 2. INSULATE EXPOSED UTILITY WATER LINE PER SPECIFICATION 40_05_06.55.

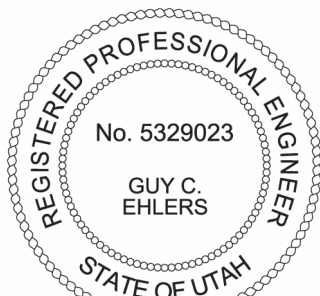
A PLAN
SCALE: 3/8" = 1'-0"

				DESIGNED MSF						WEBER BASIN WATER CONSERVANCY DISTRICT				VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING	JOB NO. 203356
				DRAWN DCS						DNWTP SOLIDS DEWATERING IMPROVEMENT PROJECT				0 1"	DRAWING NO. 67M01
				CHECKED MSF						MECHANICAL				IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET NO. 65 OF 162
				DATE JUNE 2025						SLUDGE DAY TANK LOWER PLAN					
REV	DATE	BY	DESCRIPTION												
1															
2															
3															
4															
5															
6															
7															
8															
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10															
11															
12															
13															



- # KEY NOTES:
1. MOUNTING HEIGHT IS FROM STAIR LANDING DIRECTLY BELOW FIXTURE.
 2. RECEPTACLE IS LOCATED BELOW THE STAIRS.
 3. BOND FLOW TRANSMITTERS 65-FIT-921, 65-FIT-922, 65-FIT-930 AND 65-FIT-934 TO THE GROUNDING SYSTEM ON DWG 65E05 PER DETAIL NF135/TYP. GROUNDING IS SHOWN TO THE TRANSMITTERS FOR CLARITY PURPOSE, CONNECTION SHOULD BE MADE TO THE FLOW TUBES.

DESIGNED BT			
DRAWN LLM			
CHECKED GE			
DATE JUNE 2025			
REVISION	DATE	BY	DESCRIPTION
1	7/2/2025	BHT	ADDENDUM NO. 1



WEBER BASIN WATER
CONSERVANCY DISTRICT

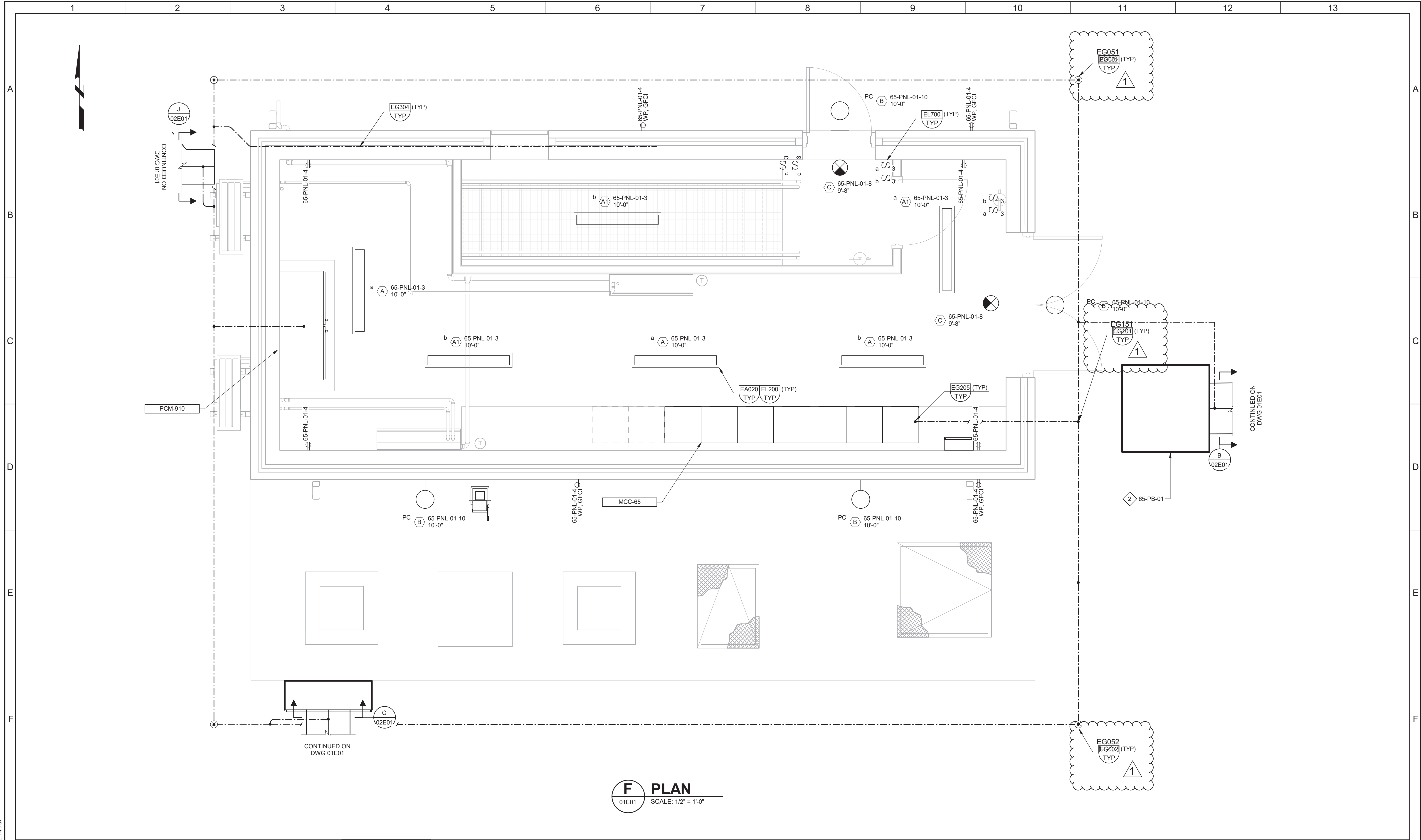
WEBER BASIN WATER CONSERVANCY DISTRICT
DNWTP SOLIDS DEWATERING IMPROVEMENT PROJECT
18 - ELECTRICAL
SLUDGE PUMP STATION LOWER LEVEL LIGHTING
AND GROUNDING PLAN

VERIFY SCALES
BAR IS ONE INCH ON
ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON
THIS SHEET, ADJUST
SCALES ACCORDINGLY

JOB NO.
203356
DRAWING NO.
65E04
SHEET NO.
92 OF 162

PLOT DATE: 6/5/2025 10:12:13 AM

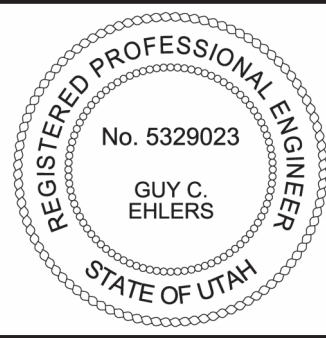
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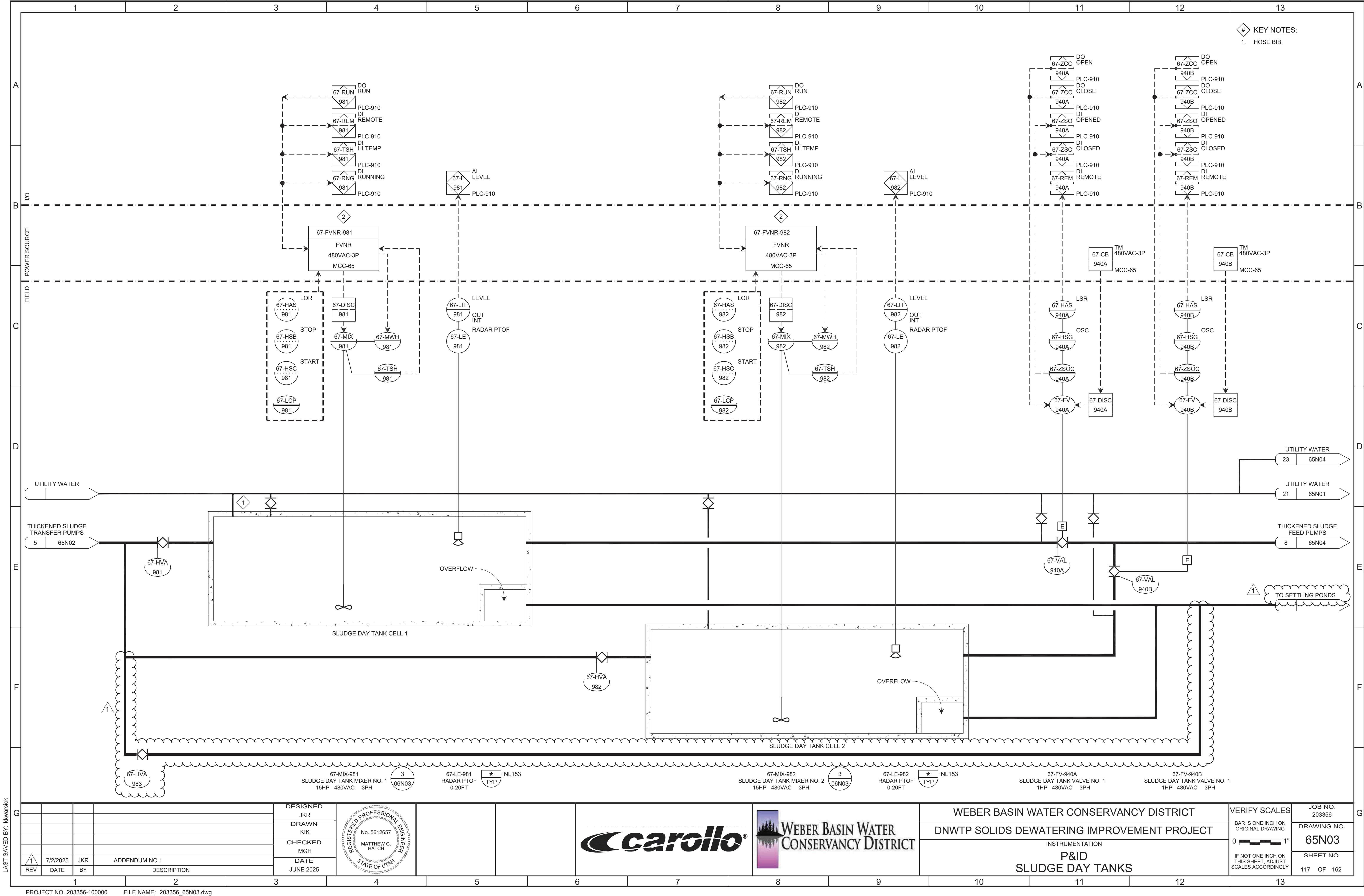
F PLAN
01E01 SCALE: 1/2" = 1'-0"

REV	DATE	BY	DESCRIPTION
1	7/2/2025	BHT	ADDENDUM NO.1

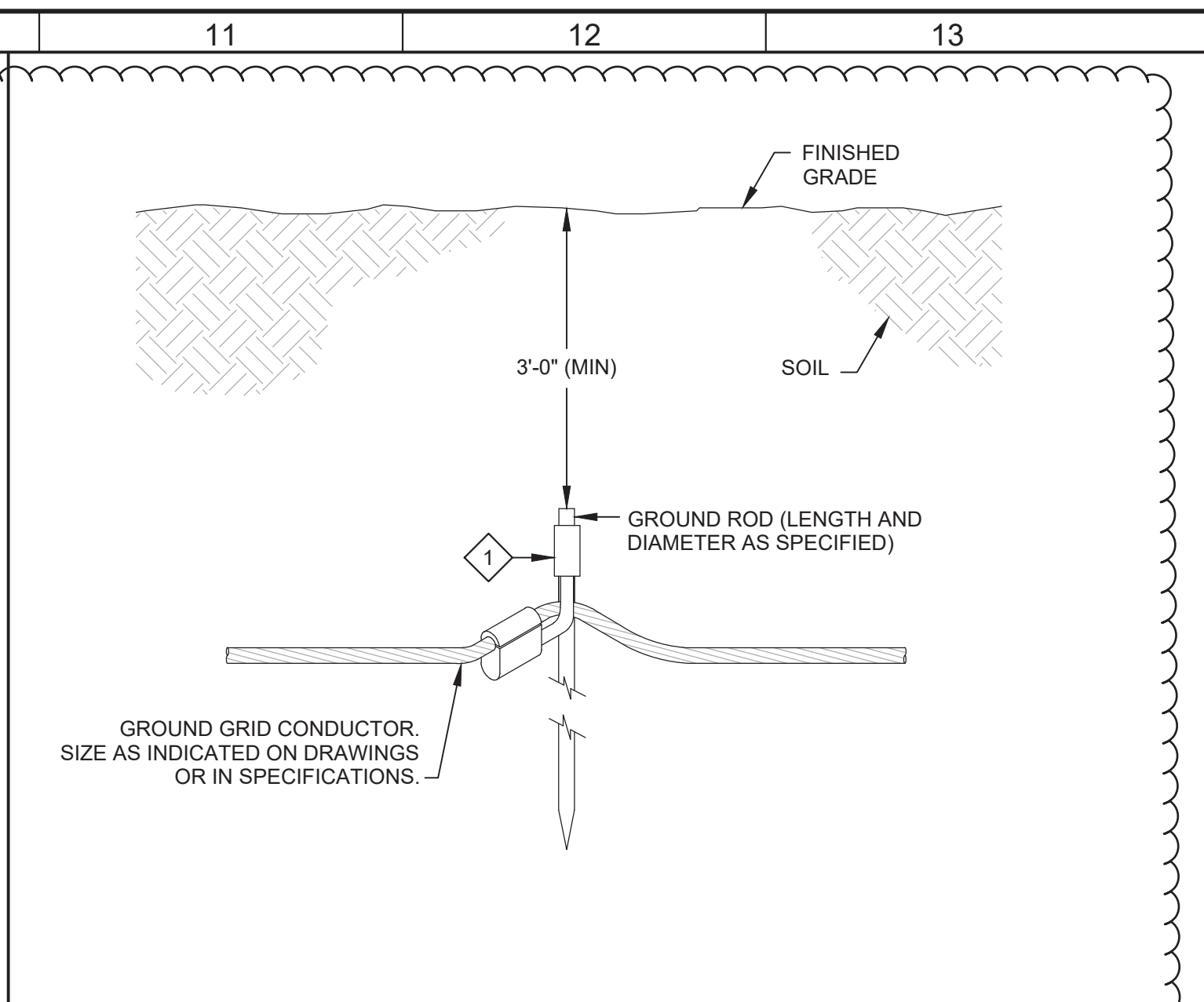
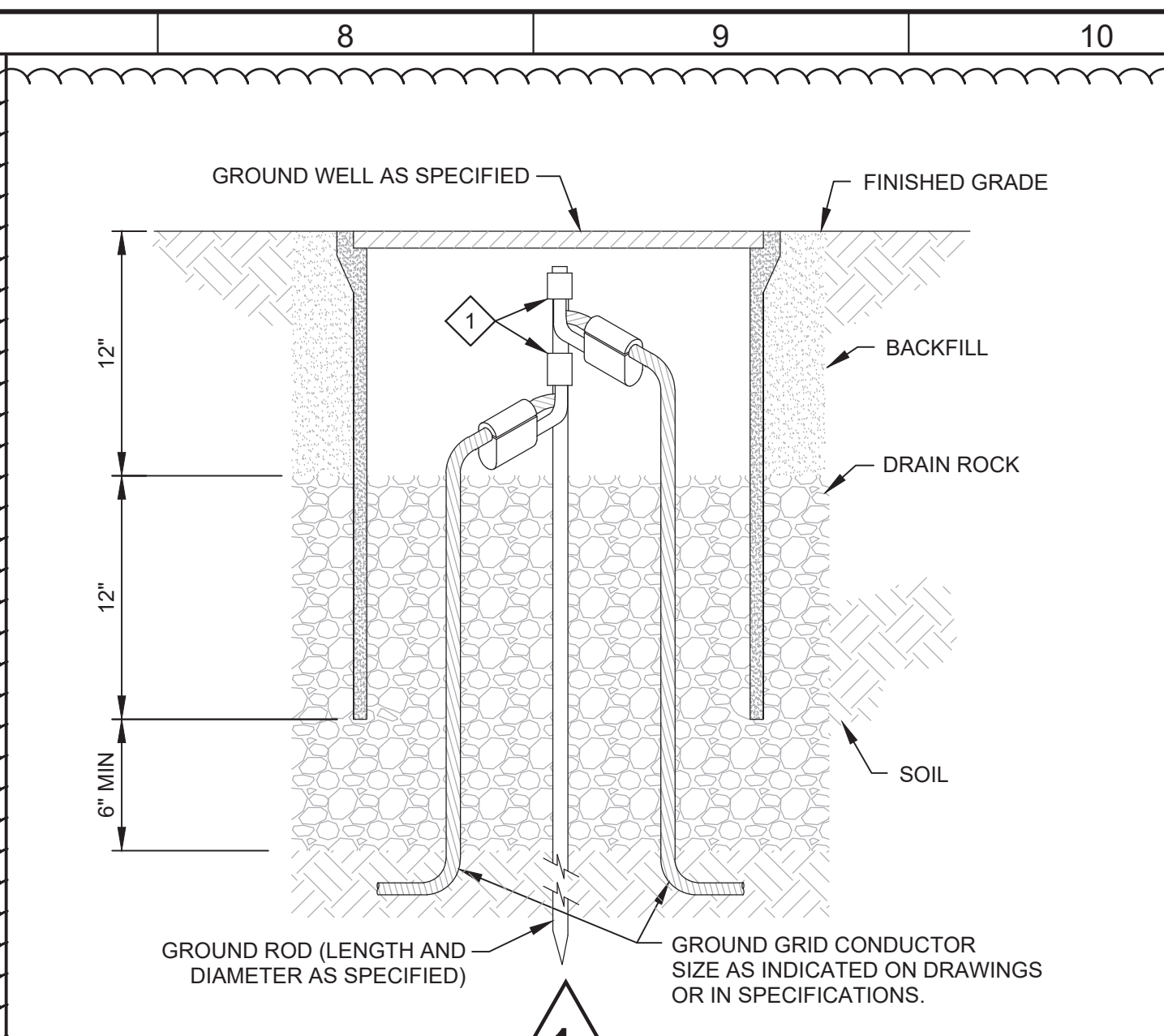
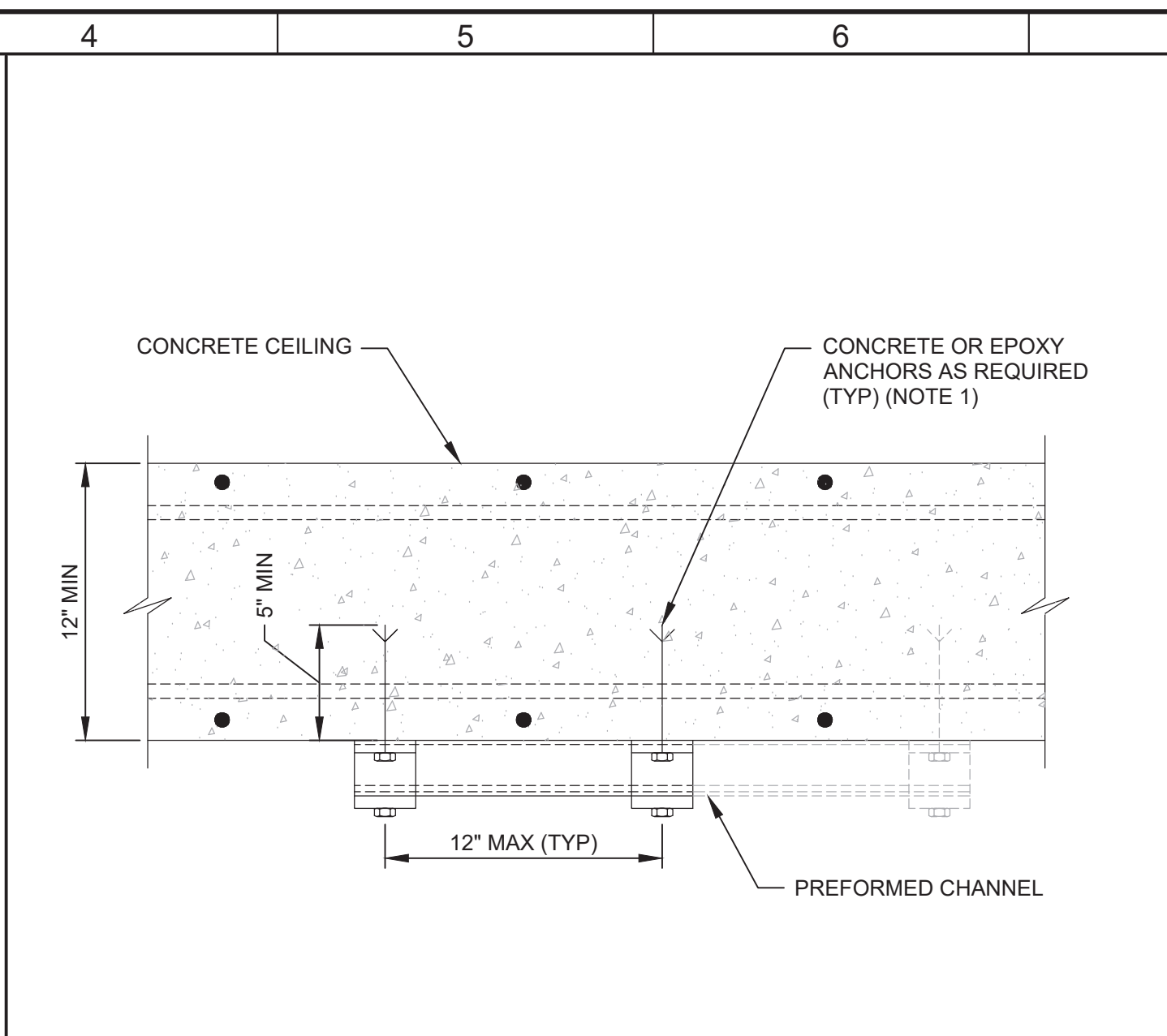
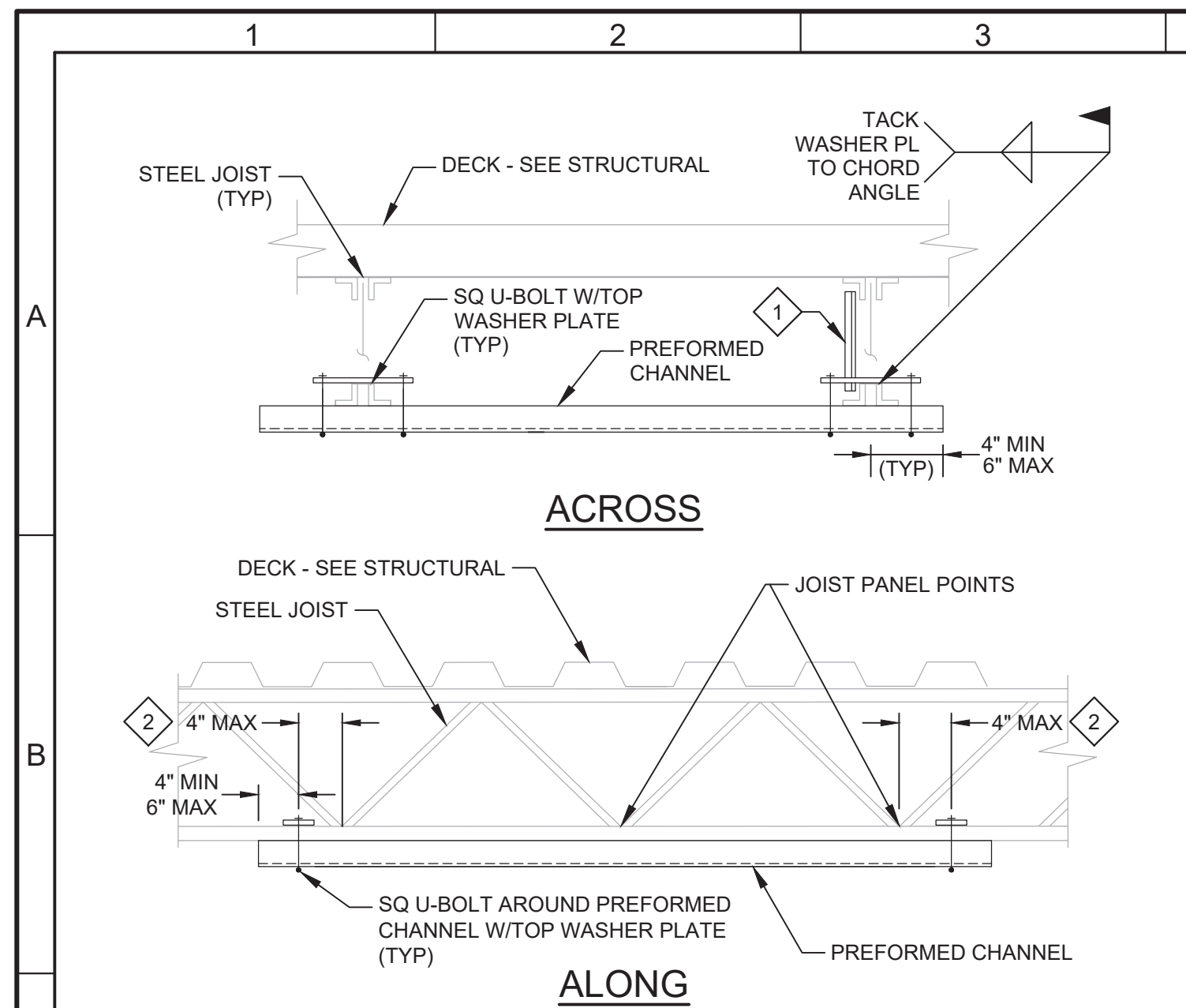
DESIGNED BT
DRAWN LLM
CHECKED GE
DATE JUNE 2025



WEBER BASIN WATER CONSERVANCY DISTRICT		VERIFY SCALES	JOB NO. 203356
DNWTP SOLIDS DEWATERING IMPROVEMENT PROJECT		BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO. 65E05
ELECTRICAL		0 1"	SHEET NO.
SLUDGE PUMP STATION UPPER LEVEL LIGHTING AND GROUNDING PLAN		IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	93 OF 162



LAST SAVED BY: kkwarsick



KEY NOTES:

1. WHERE CHANNEL IS OFFSET FROM JOIST PANEL POINT BY MORE THAN 4" ADD LOAD POINT BRACE PER SM802 .

TYP
2. LOCATE U-BOLTS MAX 4" PAST JOIST PANEL POINTS NEAREST EACH END OF LUMINAIRE AND MAX 48" ALONG PREFORMED CHANNEL.

EA020 ATTACHMENT TO STEEL JOISTS
TYP

GENERAL NOTES:

1. A FOOT UNSTRUT SUPPORT WITH TWO CONCRETE OR EPOXY ANCHORS 12" APART IS RATED FOR 500 LBS.
2. EACH EXTENSION WITH ADDITIONAL ANCHORS AT 12" INCREMENTS INCREASES THE LOADING CAPACITY BY 500 LBS.
3. SUBMIT ANCHORAGE CALCULATIONS WHEN LOAD EXCEEDS 500 LBS. REFER TO THE SPECIFICATIONS.

EA075	PREFORMED CHANNEL ATTACHMENT
TYP	TO CONCRETE CEILING

KEY NOTES:

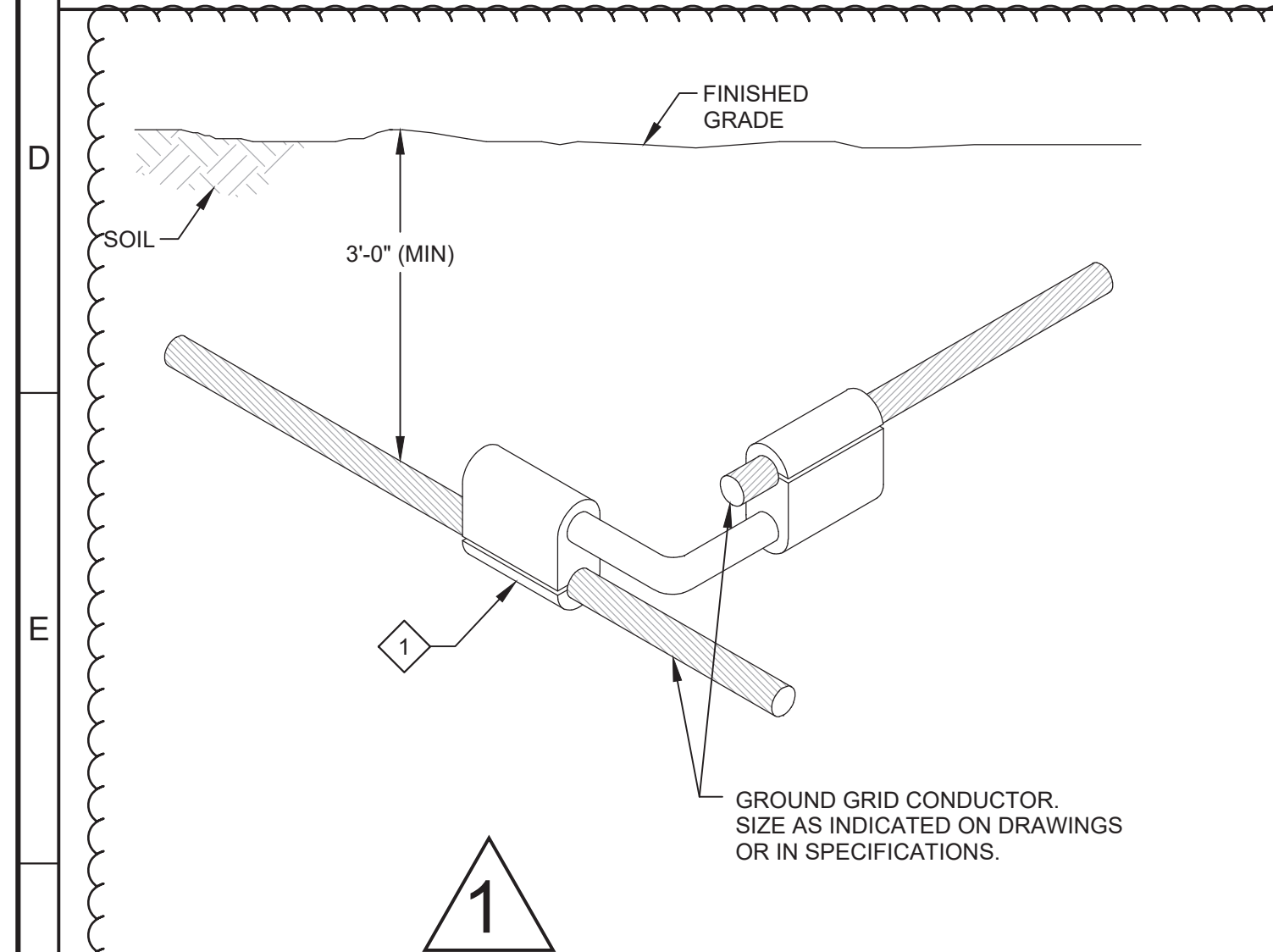
1. GROUND ROD TO GROUND GRID CROSS CONNECTOR. SIZE FOR ROD AND CABLE PER CONNECTOR MANUFACTURERS GUIDELINES.

EG001	GROUND ROD AND GROUNDWELL
TYP	COMPRESSION CONNECTION

KEY NOTES:

1. GROUND ROD TO GROUND GRID CROSS CONNECTOR. SIZE FOR ROD AND CABLE PER CONNECTOR MANUFACTURERS GUIDELINES.

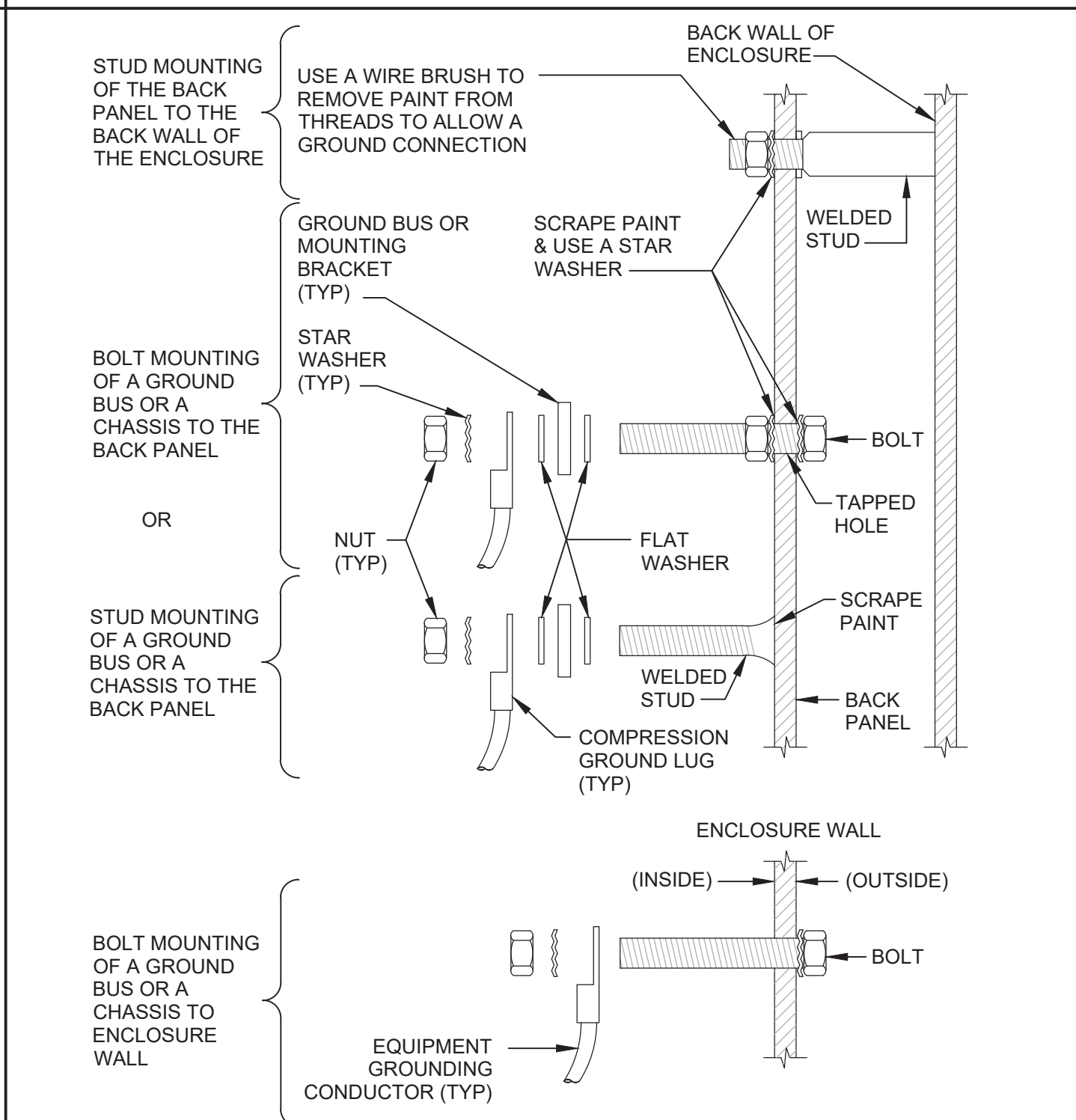
EG002 GROUND ROD
TYP COMPRESSION CONNECTION

REPLACE
WITH EG151

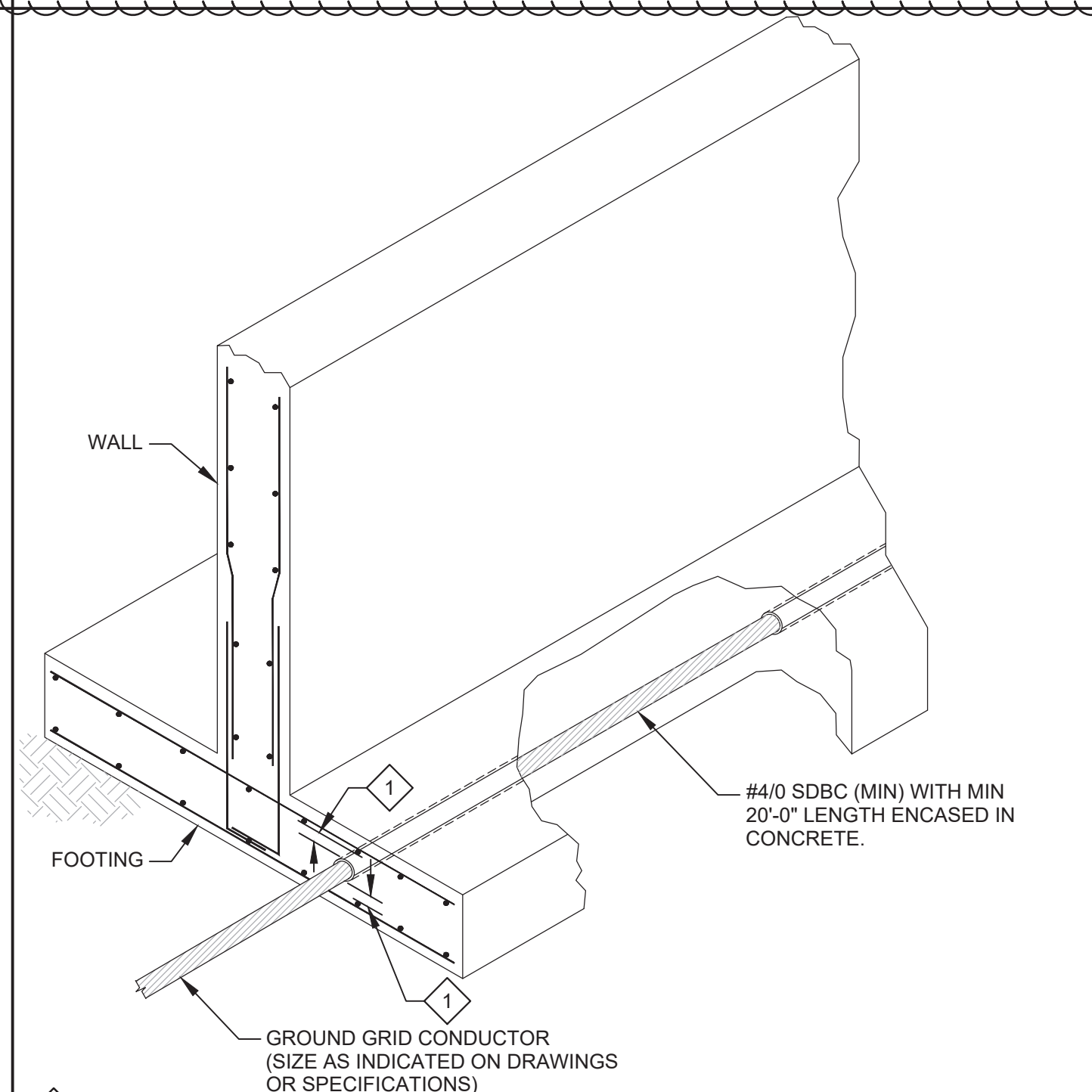
 **KEY NOTES:**

1. GROUND GRID CROSS CONNECTOR. SIZE FOR CABLE PER CONNECTOR MANUFACTURERS GUIDELINES.

EG101 COPPER GROUNDING CABLE CONNECTION
TYP COMPRESSION CONNECTION



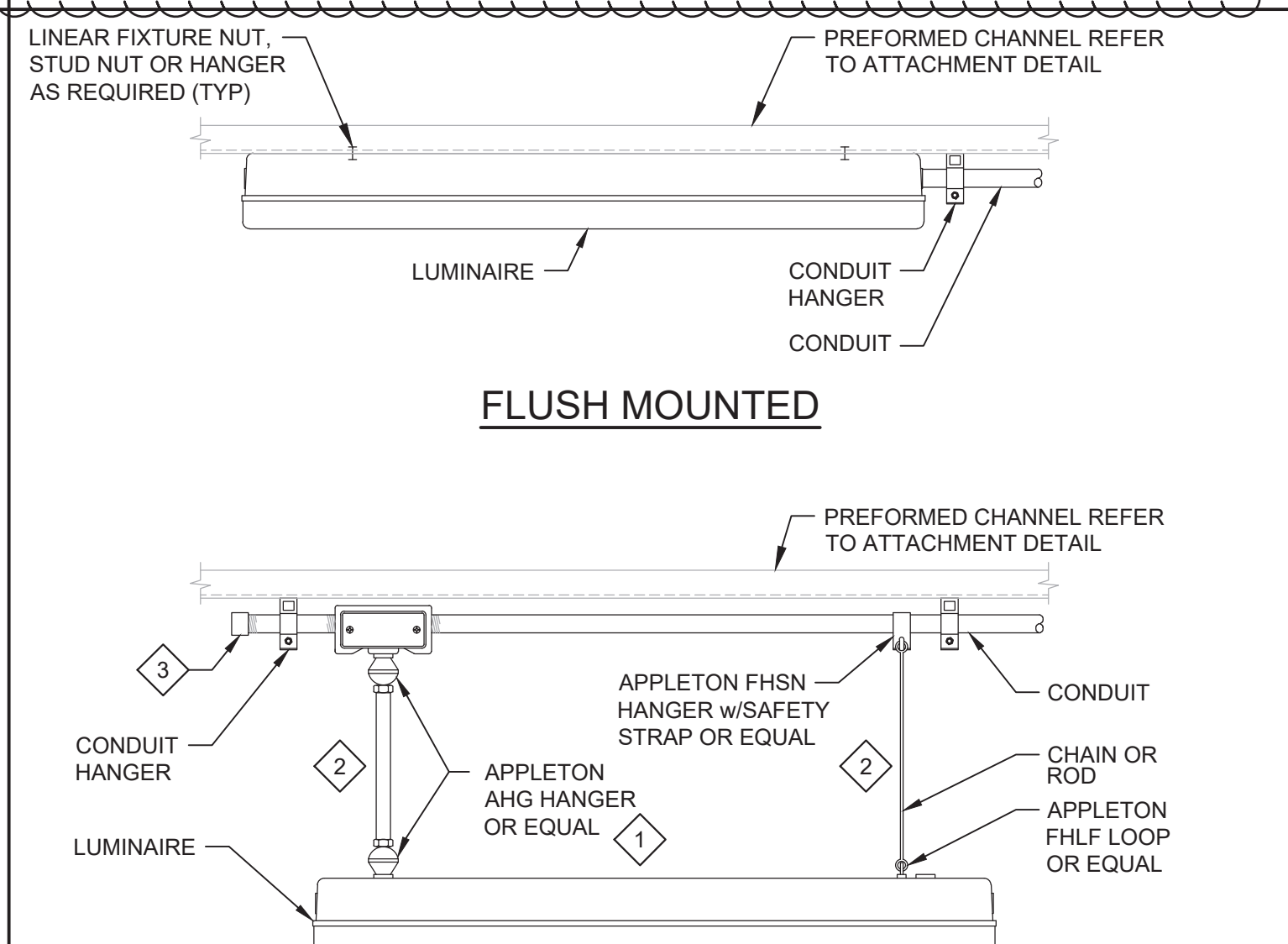
EG205 ENCLOSURE GROUNDING DETAILS



 KEY NOTES:

1. GROUND GRID CONDUCTOR TO BE FULLY ENCASED IN CONCRETE. PROVIDE MIN 1 1/2" CLEAR BETWEEN CONDUCTOR & REINFORCING BARS, OR BETWEEN CONDUCTOR AND FACE OF CONCRETE.

EG304	GROUNDING CONNECTION TO
TYP	FOOTING (UFER)




KEY NOTES:

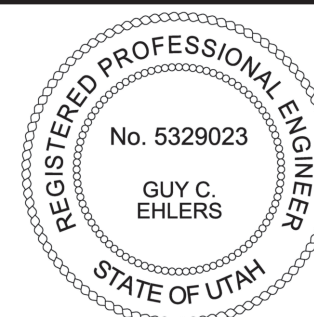
1. USE MEYERS HUB IN WET AND/OR CORROSIVE AREAS.
2. LENGTH AS REQUIRED FOR INDICATED MOUNTING HEIGHT.
3. CAP END CONDUIT AS REQUIRED.

EL200 LINEAR LUMINAIRE MOUNTING

G					DESIGNED CE
					DRAWN CE
					CHECKED GE
	1 REV	7/2/2025 DATE	BHT BY	ADDENDUM NO.1 DESCRIPTION	DATE JUNE 2025



REGISTERED PROFESSIONAL ENGINEER
No. 5329023
GUY C. EHLERS
STATE OF UTAH



WEBER BASIN WATER CONSERVANCY DISTRICT
DNWTP SOLIDS DEWATERING IMPROVEMENT PROJECT

TYPICAL DETAILS

ELECTRICAL 1

VERIFY SCALES

BAR IS ONE INCH ON

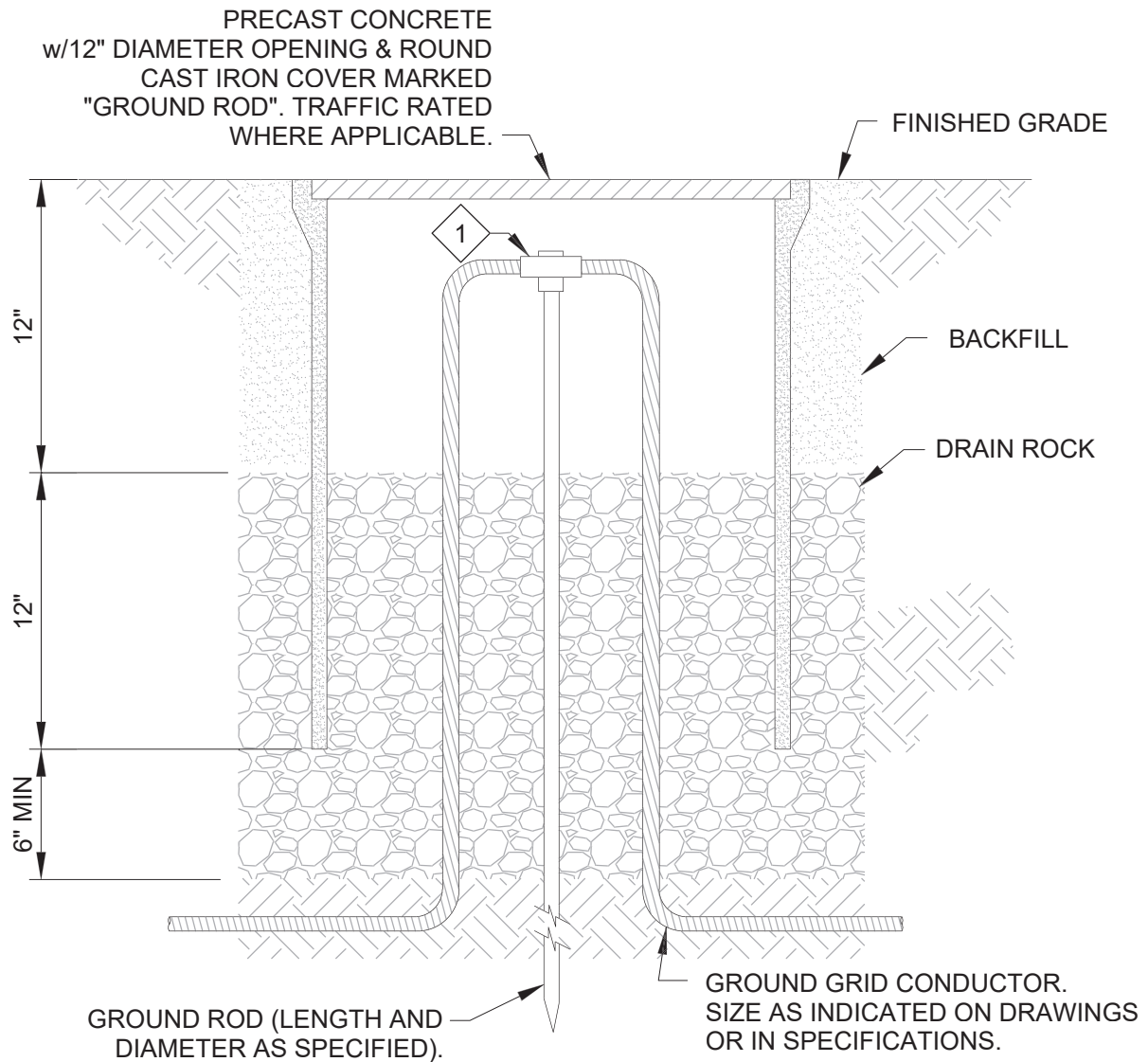
BAR IS ONE INCH ON
ORIGINAL DRAWING

0 1"

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

IF NOT ONE INCH ON
THIS SHEET, ADJUST

SCALES ACCORDINGLY



KEY NOTES:

1. THROUGH CABLE TO GROUND ROD CONNECTION.

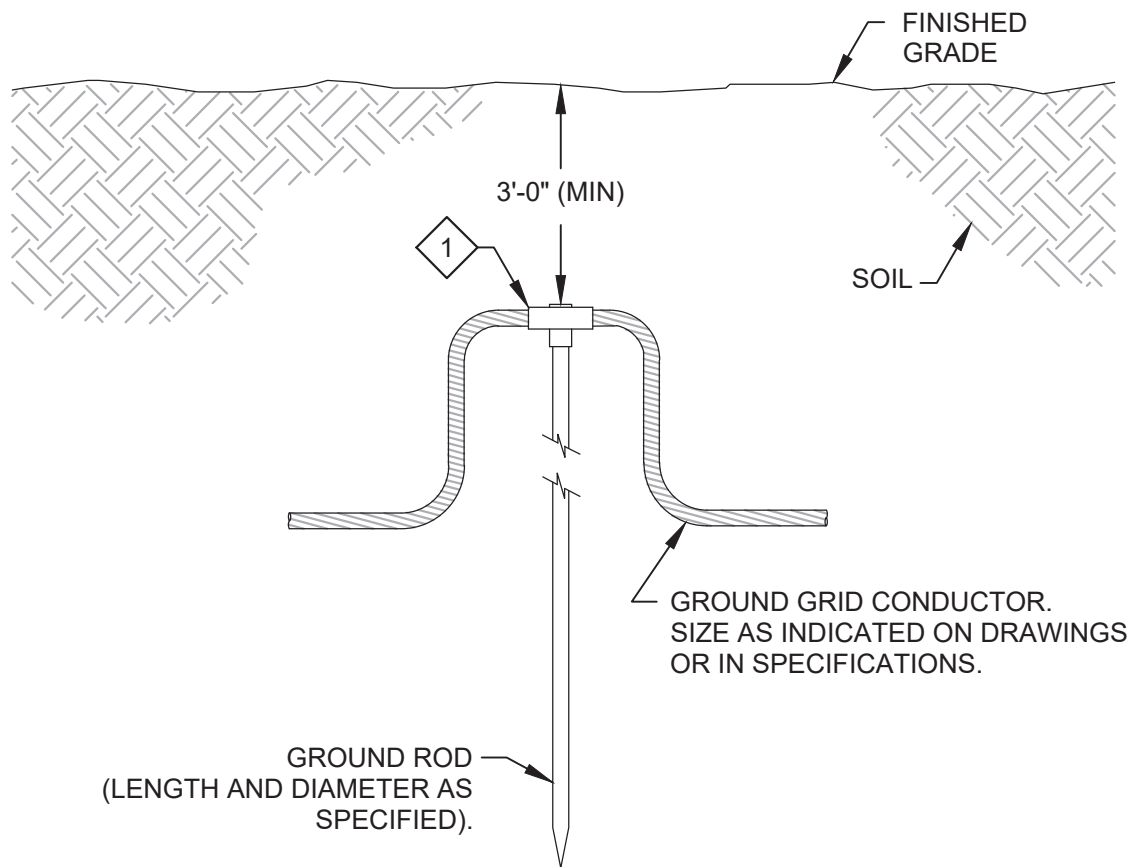
EG051

TYP

N

GROUND ROD AND GROUNDWELL EXOTHERMIC CONNECTION





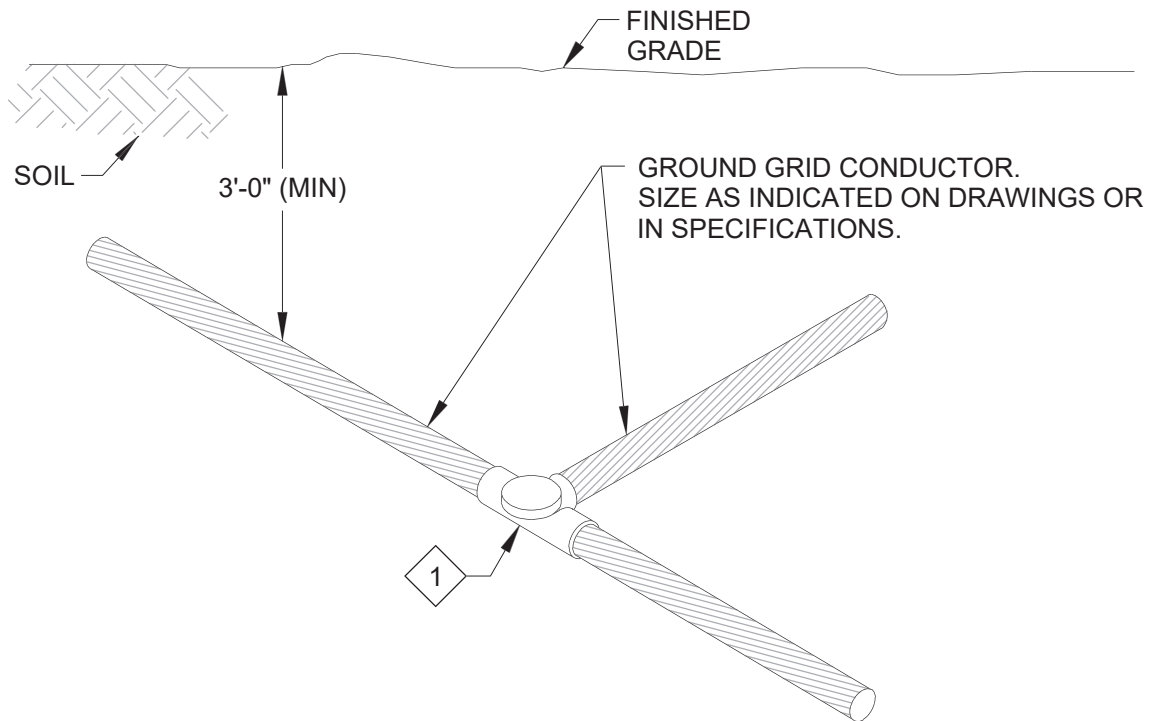
KEY NOTES:

1. THROUGH CABLE TO GROUND ROD CONNECTION.



GROUND ROD EXOTHERMIC CONNECTION





KEY NOTES:

1. HORIZONTAL TEE CONNECTION.

EG151

TYP

N

COPPER GROUNDING CABLE CONNECTION EXOTHERMIC CONNECTION

