

ADDENDUM NUMBER ONE
TOWN OF HOT SPRINGS WASTEWATER TREATMENT PLANT UPGRADE
COLLAB_417(A)
MADISON COUNTY, NORTH CAROLINA

This Addendum Number One is issued this the 11th day of September 2025 to all parties who hold a set of Bid Documents for the project entitled: "Wastewater Treatment Plant Upgrade". This Addendum Number One shall become part of the Contract Documents, and its receipt shall be acknowledged on the bid documents at the time of bidding.

Bid Date and Time

The date and time for receipt of bids is changed to **Wednesday September 17 2025 at 2:00pm** at the Hot Springs Community Building and Temporary Town Office, located at 43 N. Andrews Ave, Hot Springs, NC 28743.

GENERAL:

- A. See attachments for updated sheets G-001, G-002, CE-101, CD-101, C-101, C-102, C-103, C-104, C-105, C-106, C-107, including the following changes:
 - Removal of original base bid MBR configuration (end to end setup) from the contract. Formerly Alternate site plan MBR configuration (parallel setup) is now considered the base bid.
 - Updates to piping layout and underground/above ground configurations. Note that above ground piping is to be heat treated in accordance with *Specification Section 404113 Heat Tracing for Piping*.
 - Relocation of proposed emergency generator from CABC pad to be adjacent with existing electrical equipment. – see attached Electrical sheets E-101 to E-701.
 - Clarification that the contractor is responsible for supply and delegated design of stairways and walkway seen on sheet C-103.
- B. Clarification that the stainless-steel pipes and air goosenecks called out on Plan Sheet C-105 Blower Details are a pre-installed component of the Modular MBR Unit that has been repurchased by the town.
- C. The 10' X 10' X 8' wall height proposed prefabricated building serving as the sludge pump shed & electrical building is to be supplied by the contractor. Additionally, the NPW pressure tank and enclosure is to be an 8' X 8' X 8' wall height prefabricated building is to be supplied by the contractor. These buildings are to be fiberglass single-piece equipment shelters, with Openchannelflow being a prequalified manufacturer. The sludge pump shed and electrical building is to have a lighting system, 1500 W heating system, and fan. The NPW building is to have a lighting and 1500 W heating system.

- D. Verification that the two sludge pumps are prepurchased by the town. The sludge pumps are Seepex Progressive Cavity Pumps, BN 35-6L, sized at approximately 107" X 17" X 15" and weighing 670 pounds. The four (4) sludge storage containers, including three (3) 12,000 gallon tanks and one (1) 8,500 gallon tank, are also prepurchased by the town.
- E. Clarification that the town is responsible for transporting the equipment to the WWTP site. The contractor is responsible for unloading and installing all equipment.

ATTACHMENTS:

G-001

G-002

G-003

CE-101

CD-101

C-101

C-102

C-103

C-104

C-105

C-106

G-107

C-501

C-502

C-503

E-101

E-102

E-503

E-601

E-701

Updated Bid Form

This Addendum Number One is issued this the 11th day of September 2025.



M. Keith Webb, PE

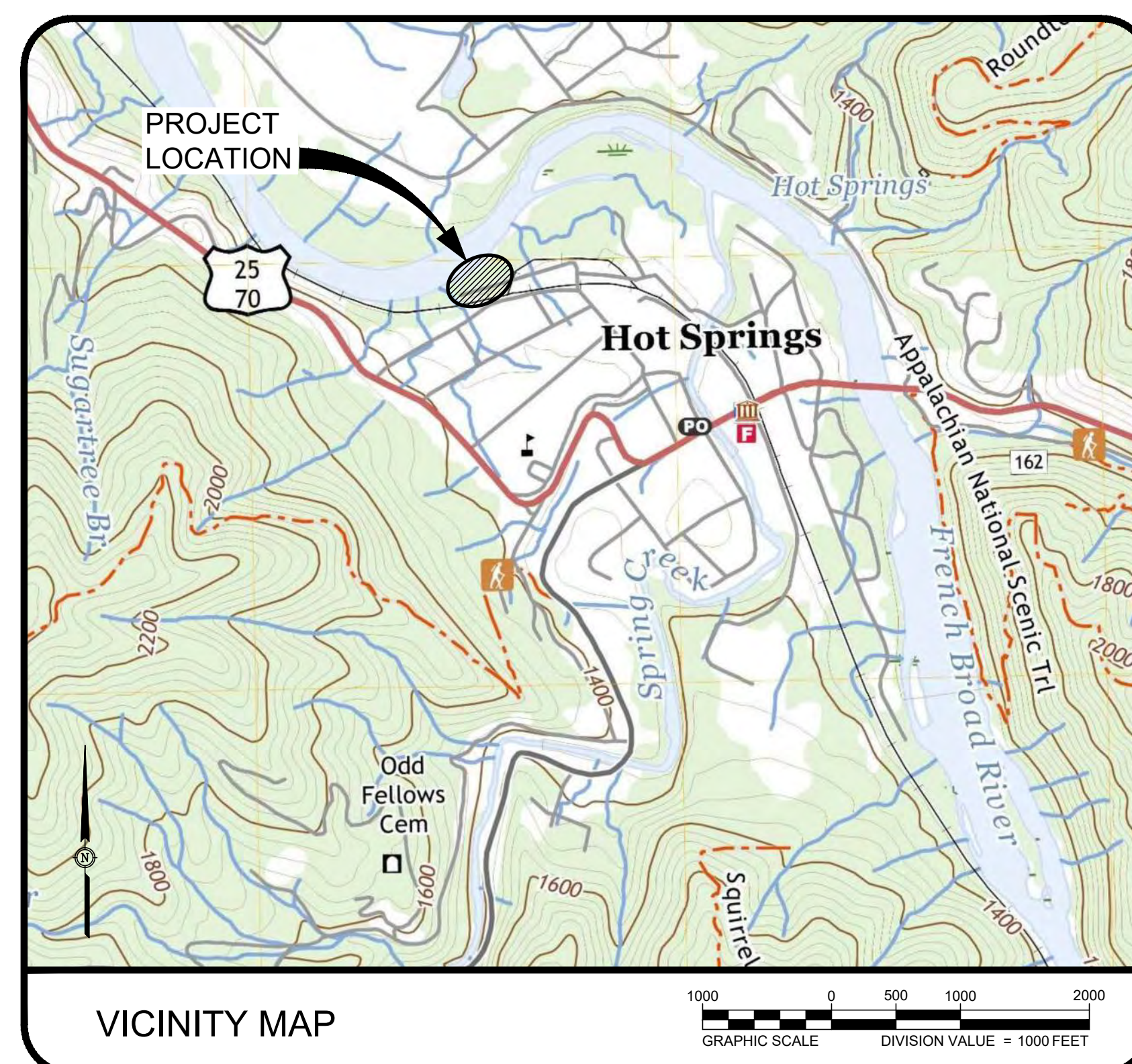


**McGILL ASSOCIATES, P.A.
CONSULTING ENGINEERS
ASHEVILLE, NORTH CAROLINA**

22.00316

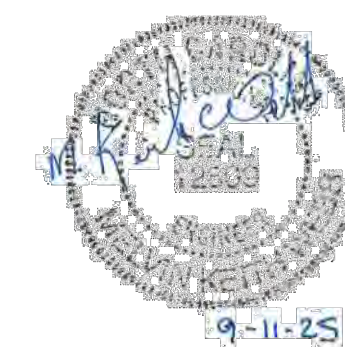
WASTEWATER TREATMENT PLANT UPGRADES TOWN OF HOT SPRINGS

MADISION COUNTY - NORTH CAROLINA



SCHEDULE OF DRAWINGS

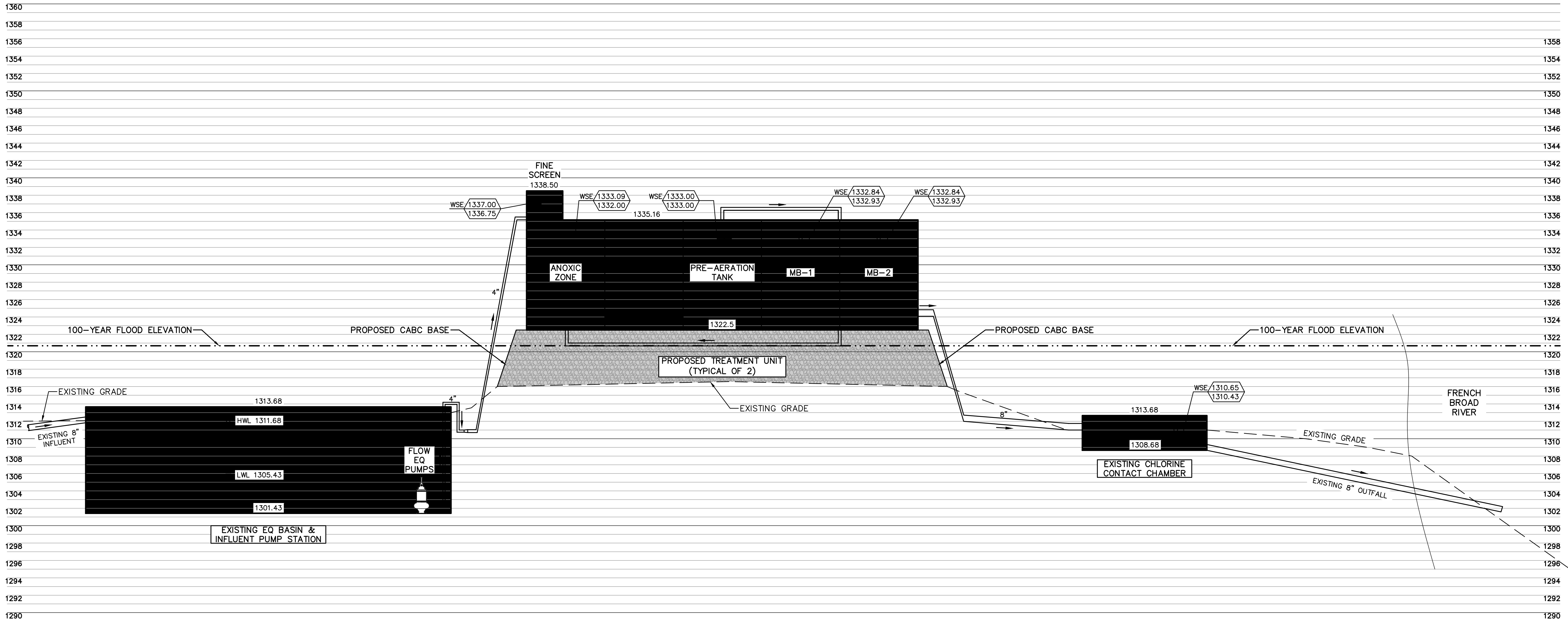
G-001	COVER SHEET
G-002	GENERAL NOTES AND LEGENDS
G-003	PROPOSED HYDRAULIC PROFILE
CE-101	EXISTING SITE PLAN
CD-101	DEMOLITION SITE PLAN
C-101	PROPOSED SITE PLAN
C-102	EXISTING TREATMENT PLANT OUTER EDGE PLANS - INFLUENT PUMP STATION AND FLOW EQ PUMPS
C-103	PROPOSED TREATMENT UNITS - PLAN AND SECTION VIEW
C-104	BLOWER DETAILS
C-105	SLUDGE HOLDING TANKS - PLAN AND SECTION VIEW
C-106	SLUDGE PUMP BUILDING PLAN AND SECTION VIEWS
C-501	MISCELLANEOUS DETAILS
C-502	MISCELLANEOUS DETAILS
C-503	MISCELLANEOUS DETAILS
E-001	ELECTRICAL LEGEND, NOTED, SCHEDULE, AND ABBREVIATIONS
E-101	ELECTRICAL SITE PLAN
E-501	ELECTRICAL DETAILS
E-502	ELECTRICAL DETAILS
E-503	ELECTRICAL DETAILS
E-601	ELECTRICAL ONE-LINES
E-701	ELECTRICAL SCHEDULES



SEPTEMBER 2025

FINAL DRAWING
FOR REVIEW
PURPOSES ONLY
NOT RELEASED
FOR
CONSTRUCTION

P:\2023\23 00328-HOTSPRINGS-NC-VWTP INNOV WW PILOT PROGRAM\DRAWINGS\SS\SS\23 00328_ PROJECT\FOLDER_EXISTING\TREATMENT\PLANT\23 00328-PROPOSED WWTP-HYDRAULIC PROFILE.DWG PLOT DATE 9/11/2025 11:51 AM JOE MALDONADO



LEGEND

WATER SURFACE ELEVATION (WSE)

WSE

X

Y

X : PEAK HOURLY FLOW = 0.2 MGD W/ ONE (1) TRAIN OUT OF SERVICE (FOR ALL PROCESSES)

Y: NPDES PERMITTED FLOW = 0.08 MGD W/ (1) TRAIN OUT OF SERVICE

mcgill

®

55 Broad Street

Asheville, NC 28801

828.252.0575

NC Firm License # C-0459

mcgillassociates.com

SEAL

12603

ENGINEER

MELVIN KEITH WEBB

6-12-25

FINAL DRAWING
FOR REVIEW
PURPOSES ONLY
NOT RELEASED
FOR
CONSTRUCTION

NO.	DATE	BY	DESCRIPTION

WASTEWATER TREATMENT
PLANT UPGRADES

TOWN OF HOT SPRINGS

MADISON COUNTY, NORTH CAROLINA

NOT TO SCALE

OFFICE MANAGER	DESIGNER
M. CATHEY	J. MALDONADO
PROJECT MANAGER	REVIEWER
T. SWARTOUT	-

DATE	PROJECT #	FUNDING #
MAY 2025	23.00328	-

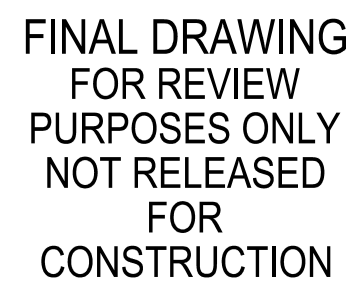
SHEET

G-003

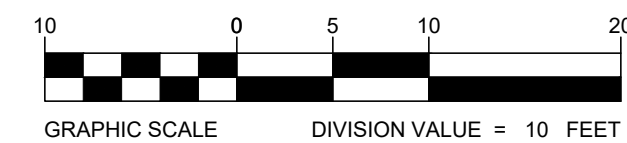
This site plan illustrates the layout of an existing wastewater treatment plant and its associated infrastructure. The French Broad River is shown at the top of the plan. Key features include:

- EXISTING WASTEWATER TREATMENT PLANT:** A large circular structure with a central vertical pipe. The bottom of the tank is at elevation 1301.62'. A spigot is located near the base of the tank.
- EXISTING CHLORINE CONTACT CHAMBER:** A rectangular structure located to the right of the treatment plant. It has a top air pipe at elevation 1313.68' and a bottom air pipe at elevation 1309.61'.
- EXISTING BLOWERS:** A rectangular structure located to the left of the treatment plant. It has a top pipe at elevation 1313.04'.
- EXISTING ELECTRICAL PANEL:** A small rectangular structure located to the left of the blowers.
- EXISTING TREES:** A cluster of trees located to the right of the treatment plant.
- GRAVEL DR:** A gravel driveway located to the right of the treatment plant.
- TEMPORARY CHEMICAL STORAGE/FEED CONTAINER:** A rectangular structure located to the right of the gravel driveway.
- FLOOD LIMITS:** The plan shows the 100 Year Flood Limit and the 500 Year Flood Limit. The 100 Year Flood Limit is indicated by a dashed line, and the 500 Year Flood Limit is indicated by a solid line.
- CHAIN LINK FENCE:** A fence line runs along the right side of the plan.
- RAILROAD ROW:** A railroad right-of-way line runs along the bottom of the plan.
- SSMH-#1214:** A structure with a rim elevation of 1311.38' and an inverts elevation of 1309.80'.

The plan also includes various other details such as pipe diameters (e.g., 8" DIP), elevations, and structural symbols.

[illegible]

WASTEWATER TREATMENT
PLANT UPGRADES
TOWN OF HOT SPRINGS
MADISON COUNTY - NORTH CAROLINA



OFFICE MANAGER M. CATHEY	DESIGNER W. HALE
PROJECT MANAGER K. WEBB	REVIEWER —

EXISTING SITE PLAN

DATE	PROJECT #	FUNDING #
SEPTEMBER 2025	23.00328	

SHEET

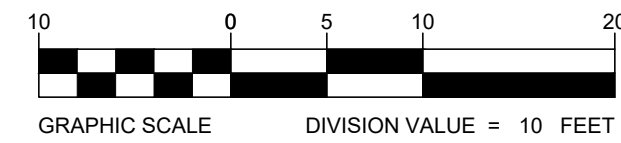
CE-101



FINAL DRAWING
FOR REVIEW
PURPOSES ONLY
NOT RELEASED
FOR
CONSTRUCTION

[illegible]

WASTEWATER TREATMENT
PLANT UPGRADES
TOWN OF HOT SPRINGS
MADISON COUNTY - NORTH CAROLINA



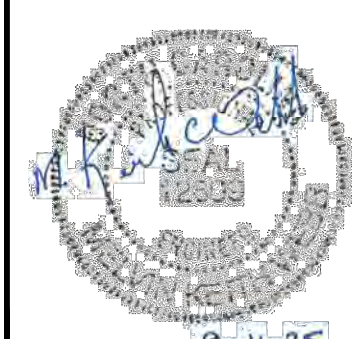
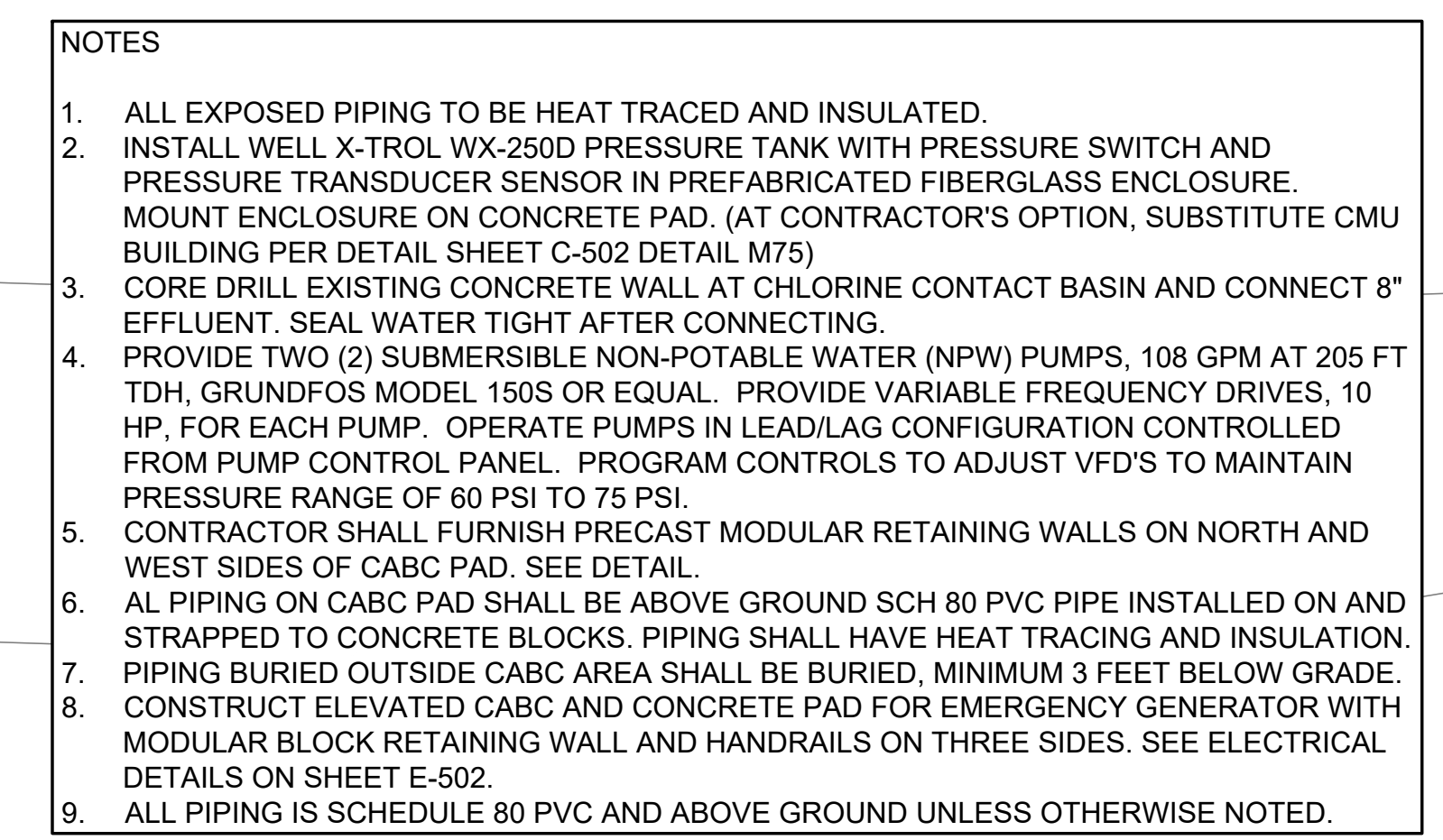
OFFICE MANAGER M. CATHEY	DESIGNER W. HALE
PROJECT MANAGER K. WEBB	REVIEWER —

DEMOLITION SITE PLAN

DATE	PROJECT #	FUNDING #
SEPTEMBER 2025	23.00328	

SHEET

CD-101

[illegible]

GRAPHIC SCALE DIVISION VALUE = 10 FEET

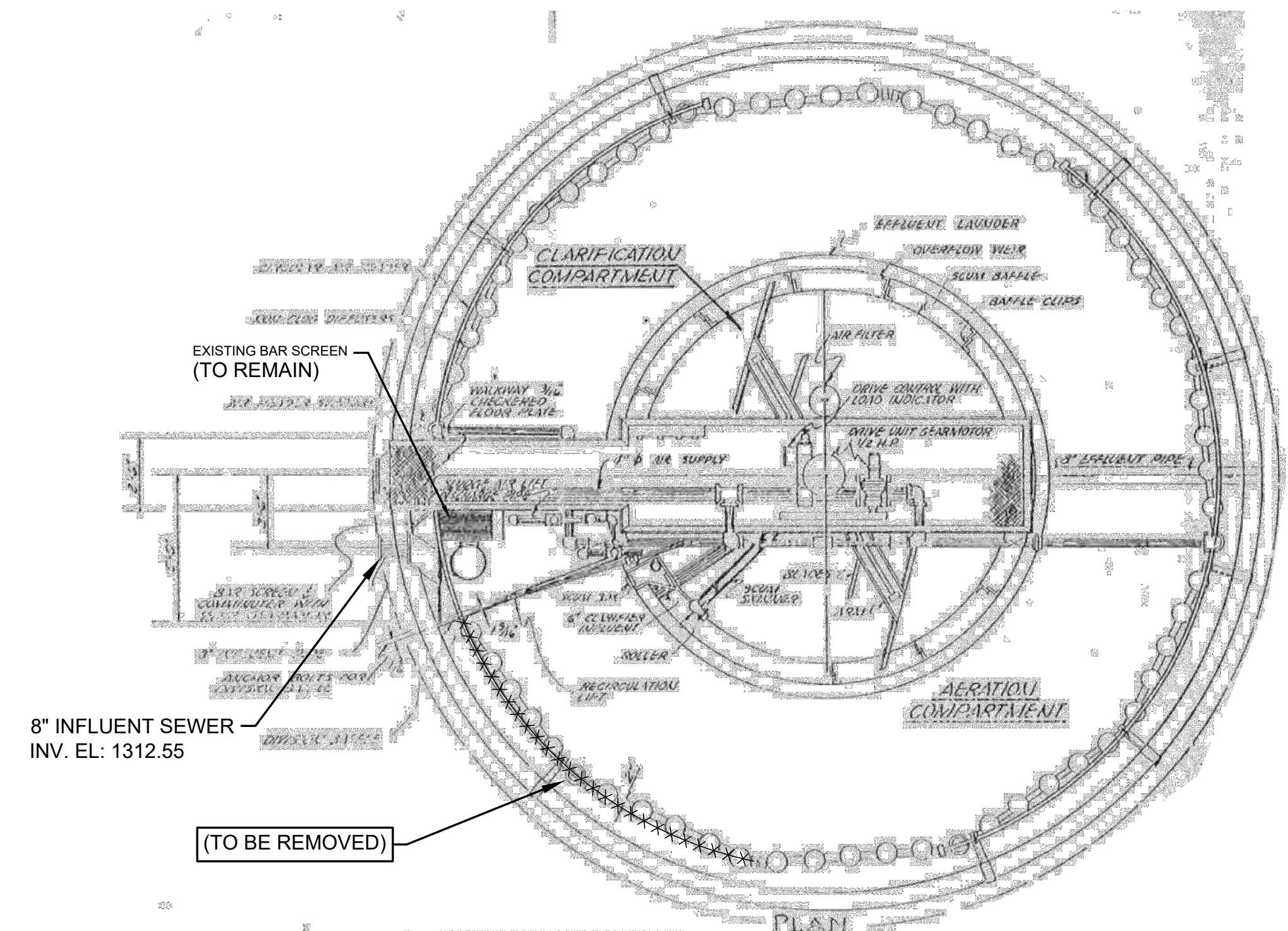
PROPOSED SITE PLAN		
DATE	PROJECT #	FUNDING #
SEPTEMBER 2025	23.00328	

SHEET

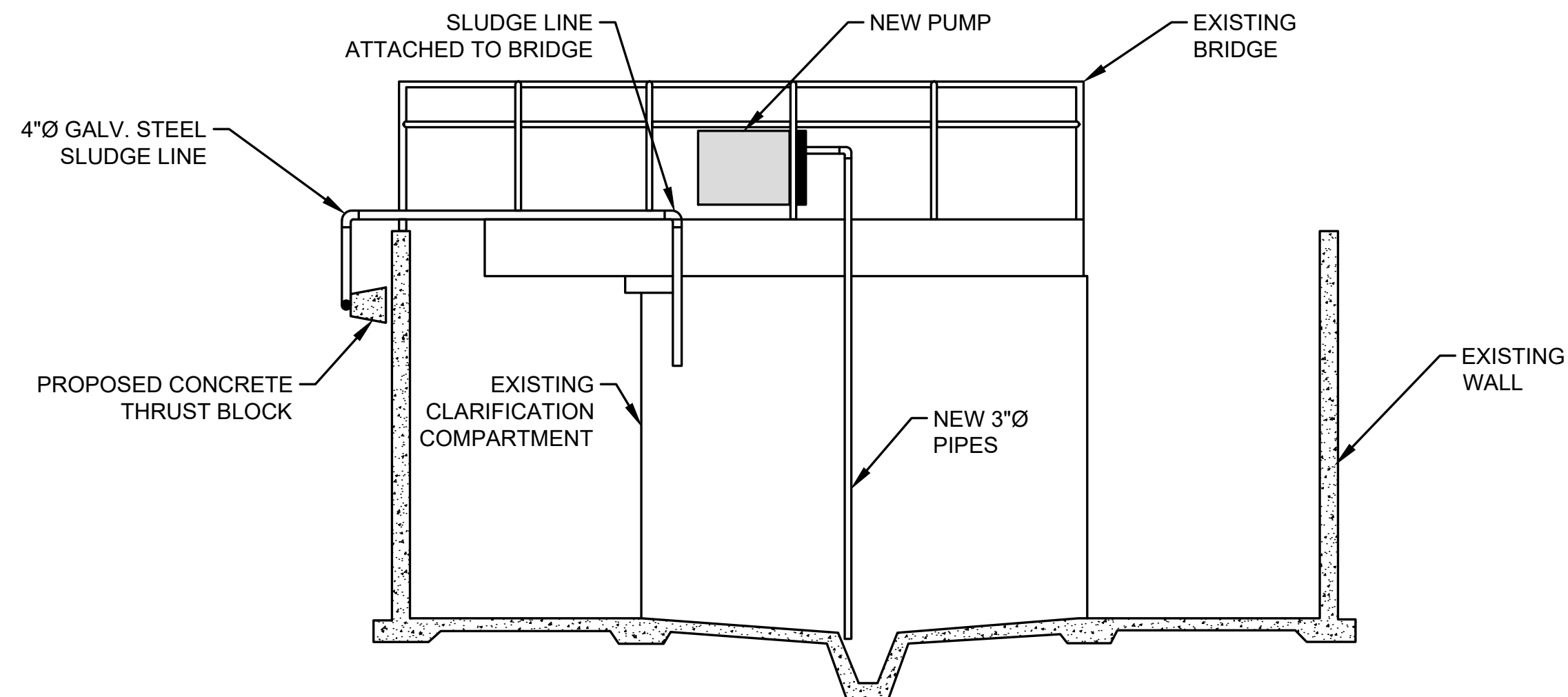
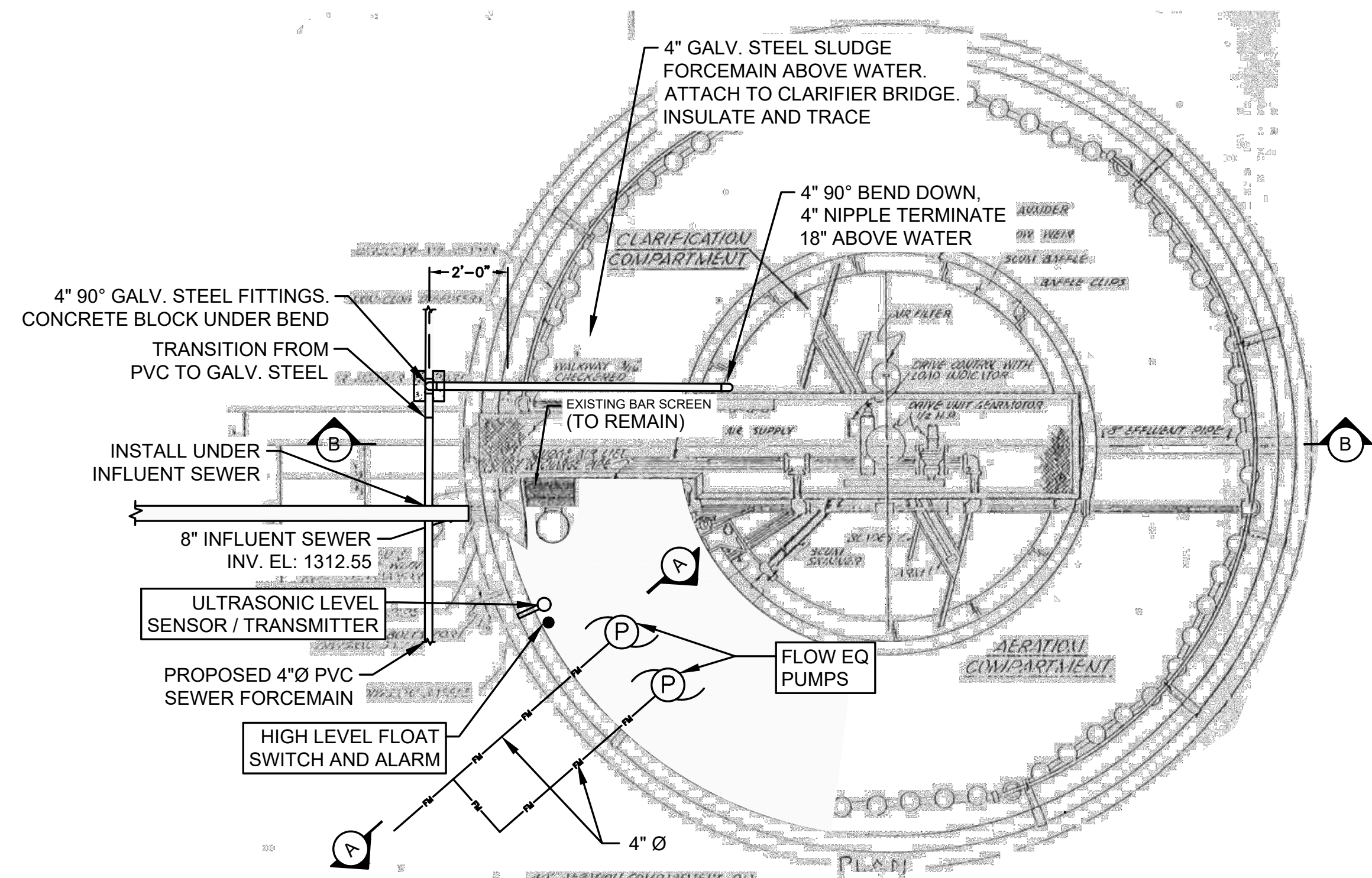
C-101

P:\2023\23 00328-HOTSPRINGS-NC-VWTP INNOV WW PILOT PROGRAM\DRAWINGS\SHEETS\23 00328 EXISTING TREATMENT PLANT\23 00328 EX-WWTP-MECH.DWG PLOT DATE 9/11/2025 11:52 AM JOE MALDONADO

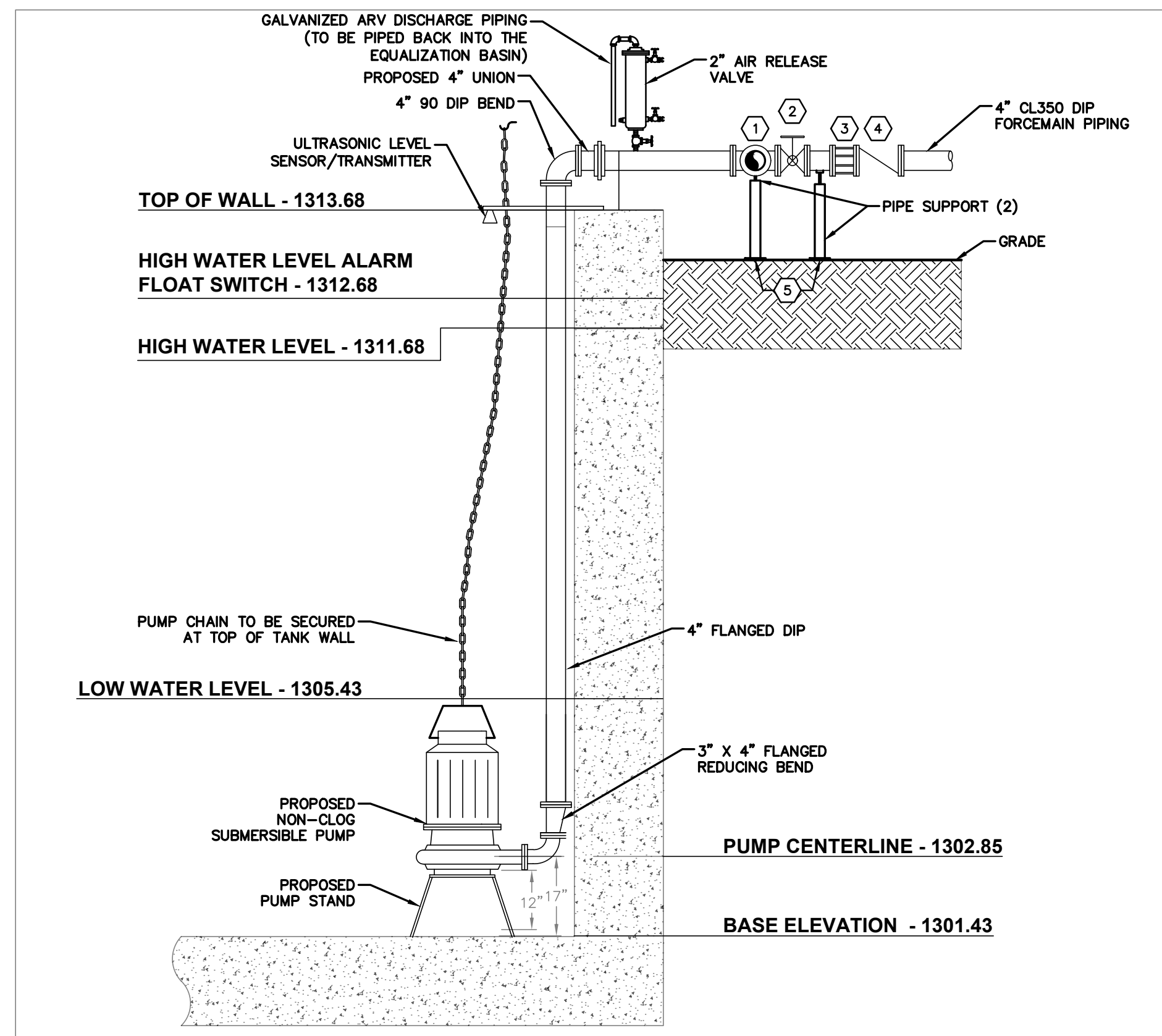
EXISTING LAYOUT:
EQ BASIN & IPS



PROPOSED LAYOUT:
EQ BASIN & IPS

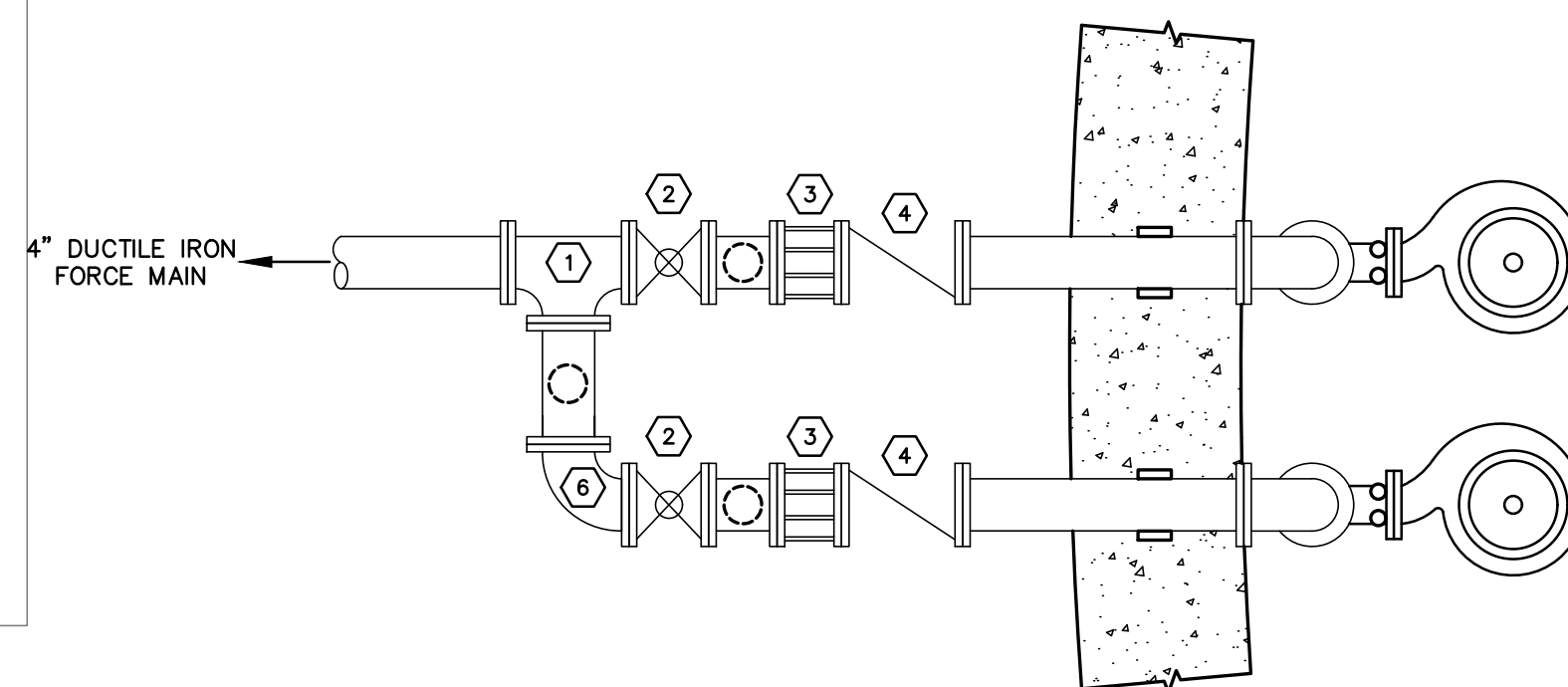


SECTION B-B



SECTION A-A

- LEGEND**
1. 4"x4"x4" TEE
 2. 4" PLUG VALVE
 3. FLANGED COUPLING ADAPTER
 4. 4" CHECK VALVE
 5. PIPE SUPPORTS
 6. 4" BASE ELBOW

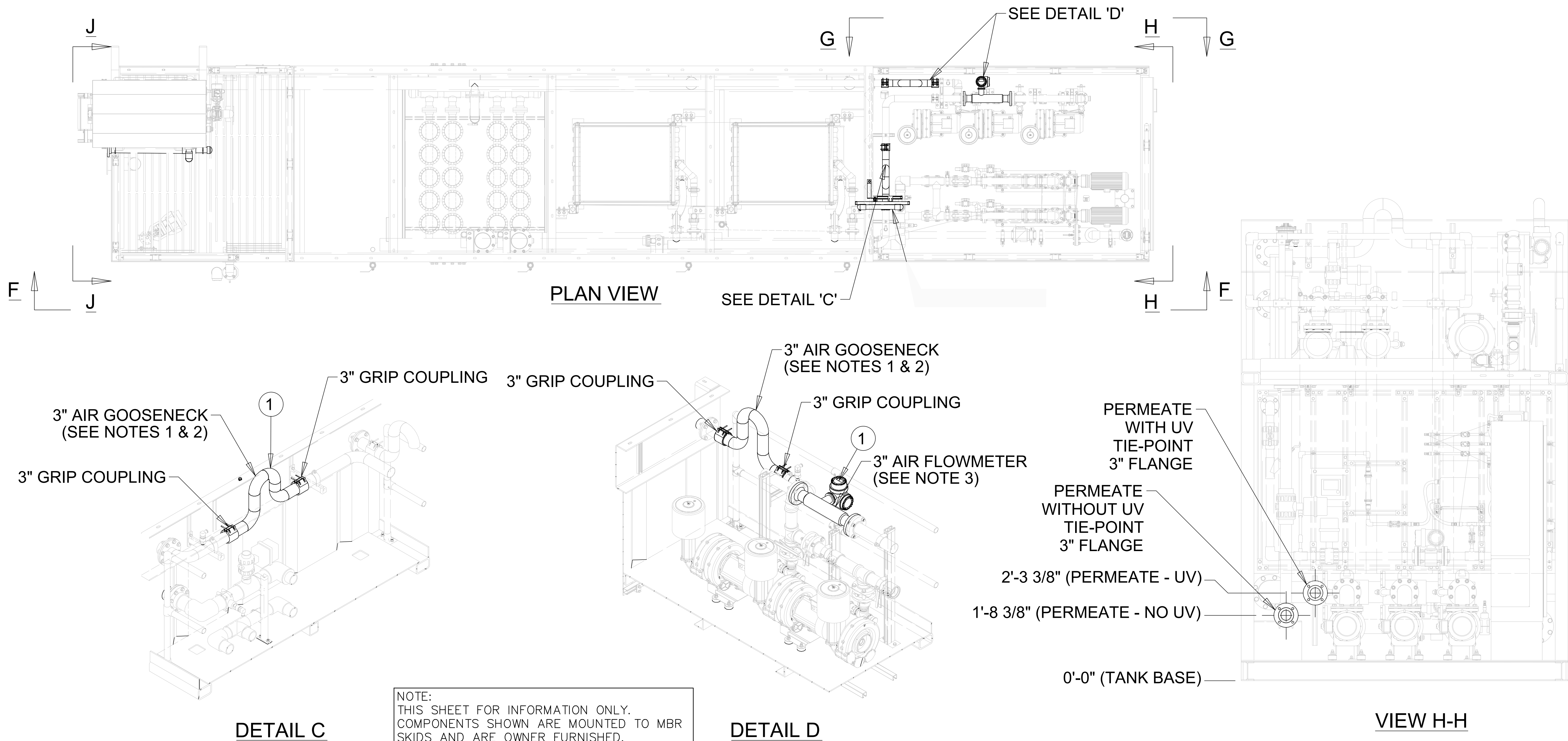


PROPOSED FORCEMAIN
PIPING PLAN

NO.	DATE	BY	DESCRIPTION

SECTION B-B

P:\2023\23 00328-HOTSPRINGS-C-WWTP-INNOV-WW PILOT PROGRAM\DRAWINGS\SHEETS\23 00328 PROJECT\FOLDER_EXISTING\TREATMENT\PLANT\23 00328 EX-WWTP-MECH.DWG PLOT DATE 9/11/2025 11:48 AM JOE MALDONADO



NOTES:

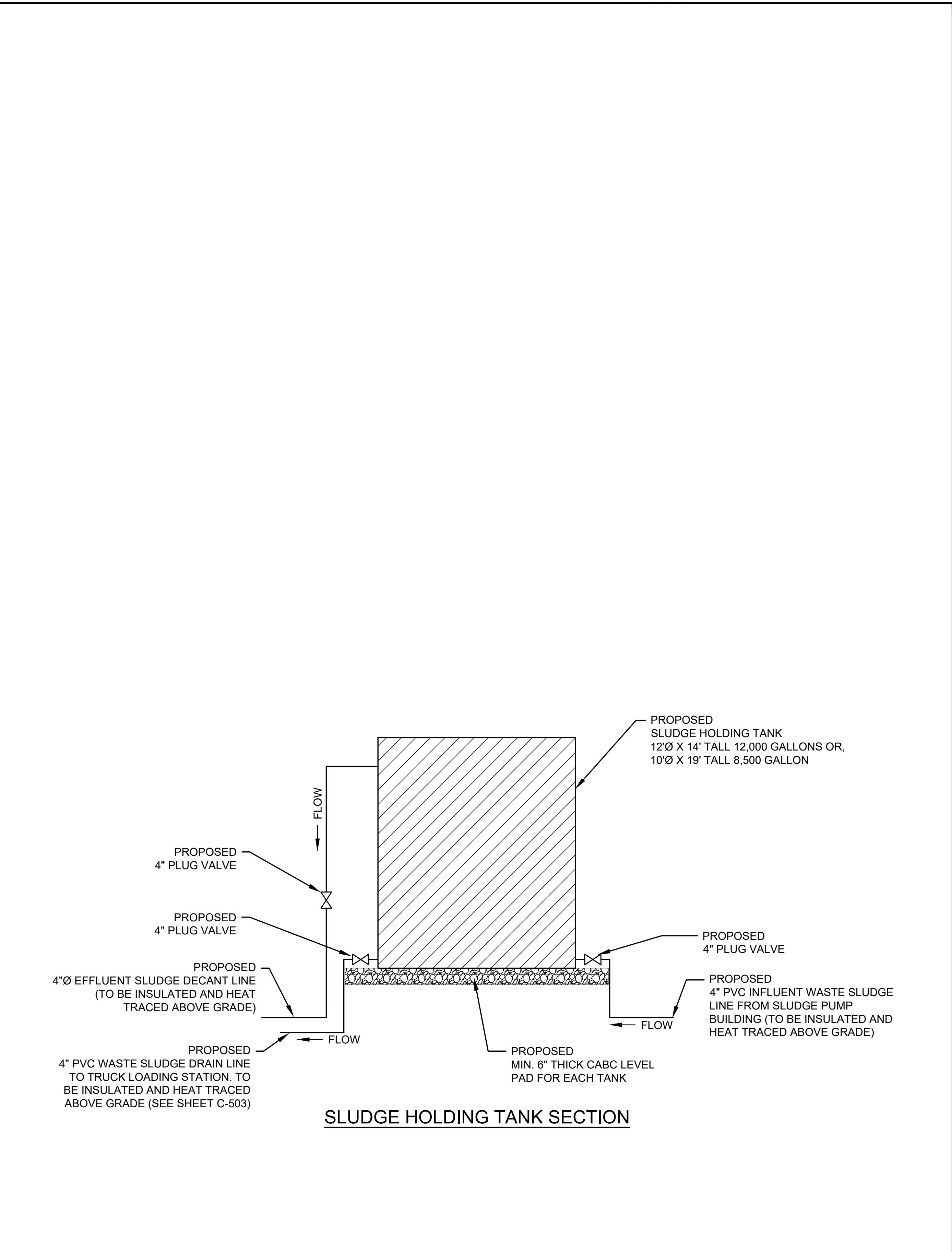
1. SECURE 3" AIR GOOSNECK SPOOLS TO EXISTING PIPING USING 3" GRIP COUPLINGS
2. ENSURE THAT 3" AIR GOOSNECK EXTEND ABOVE THE TOP OF TANK TO PREVENT ANY POTENTIAL BACKFLOW FROM ENTERING/REACHING INSTRUMENTS OR BLOWERS.
3. DISCONNECT FLANGES OF THE 3" AIR FLOWMETER AND ROTATE SO THAT THE DISPLAY IS ON TOP AS SHOWN.
4. SCREEN DECK ENTRY CAN BE ON LEFT OR RIGHT SIDE OF TANK BASED ON SITE SPECIFIC NEEDS.

NOTES:

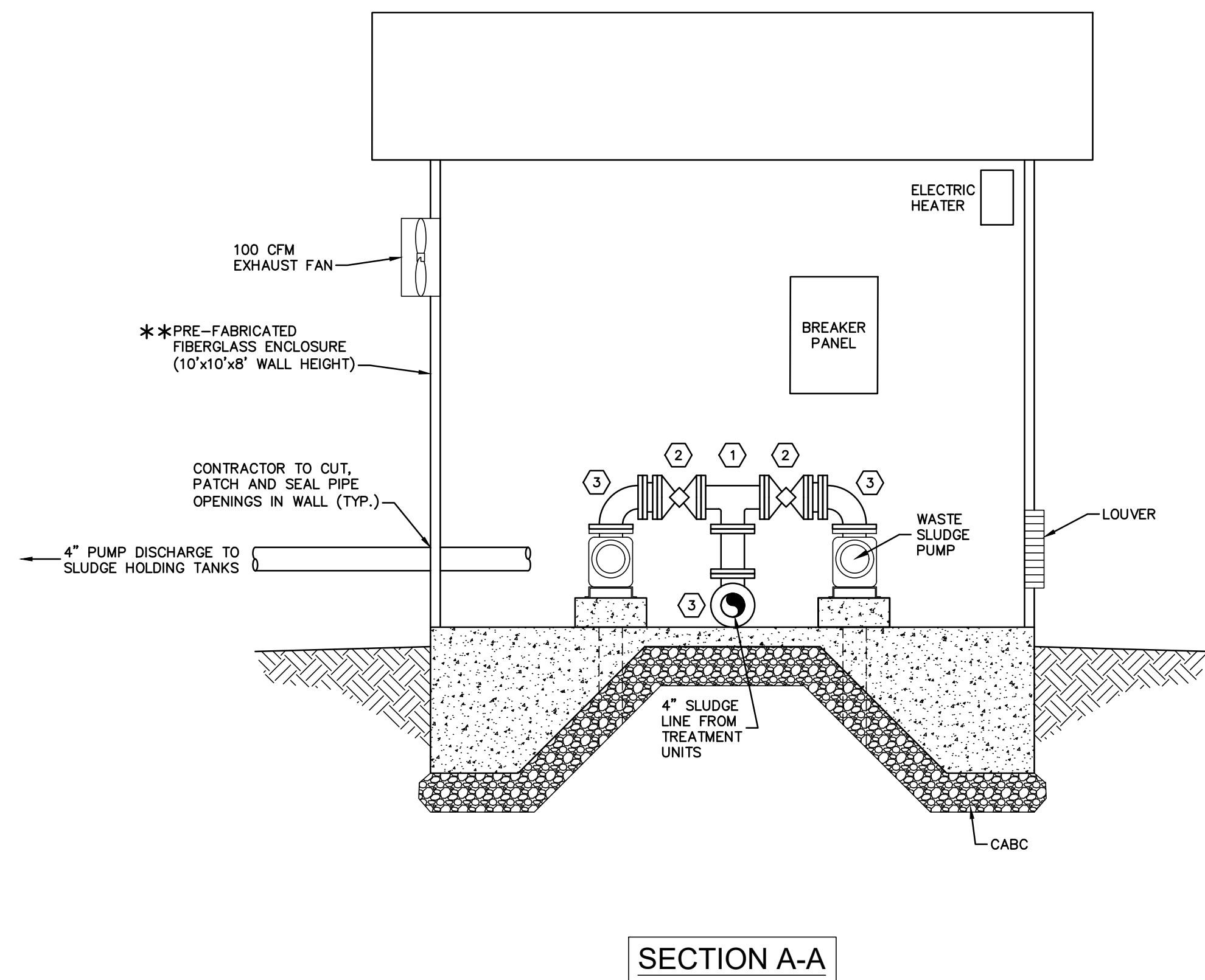
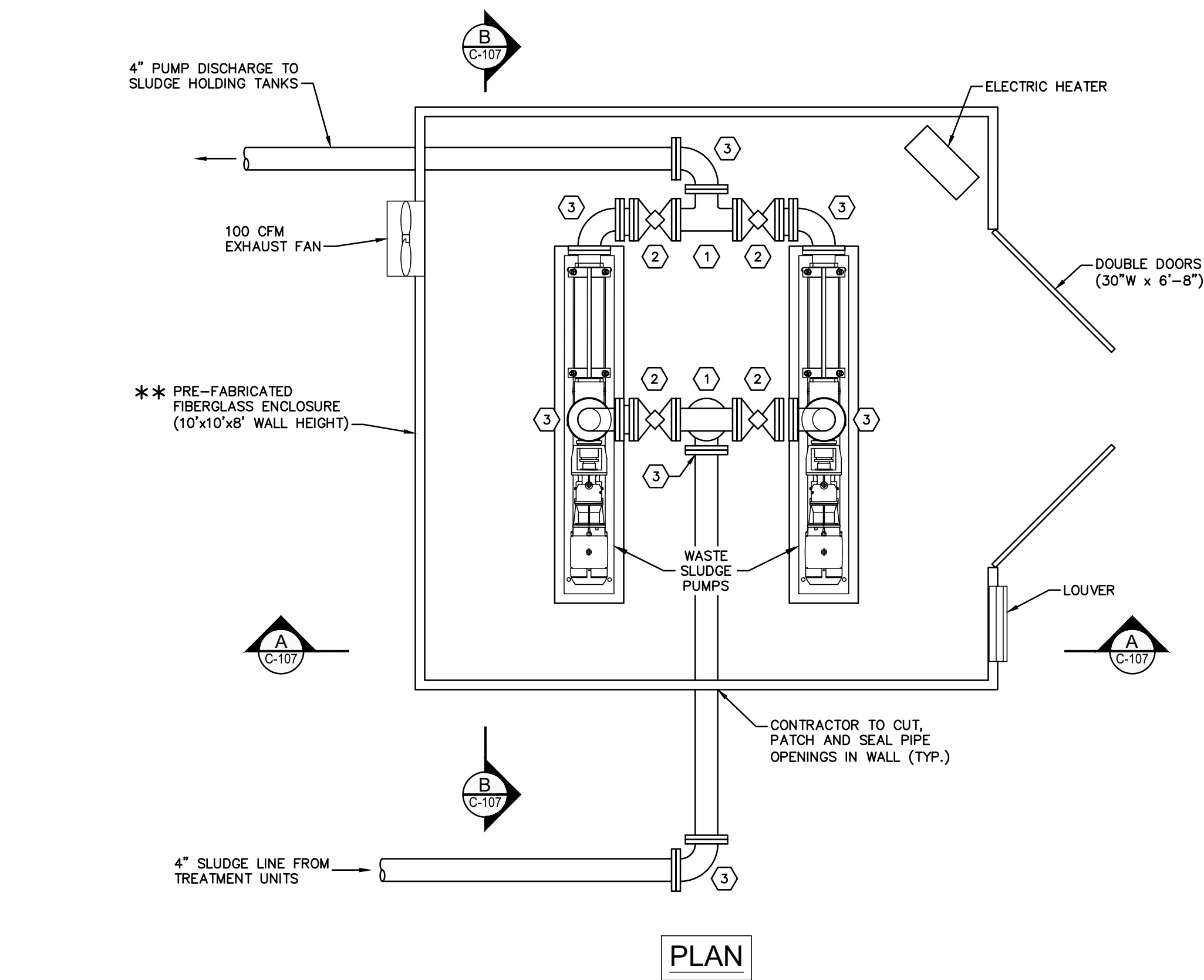
1. THE FLANGED TIE-POINT SHOWN WILL BE USED FOR CIP DILUTION WATER FOR SYSTEMS UTILIZING AN AUTOMATED CIP. FOR SYSTEMS WITH MANUAL CIP, THE CONNECTION WILL BE USED FOR A PRE-MIXED CHEMICAL SOLUTION.
2. CIP WATER OR SOLUTION OPTIMAL FLOW IS 60 gpm @ 10 psig. NOT TO GO BELOW 30 gpm.
3. WASH WATER MINIMUM FLOW IS 16 gpm @ 70 psig.
4. SUPPLEMENTAL TANK RAS TIE-POINTS CAN BE LOCATED ON EITHER SIDE OF THE TANK, EXACTLY OPPOSITE OF ONE ANOTHER. FOR SYSTEMS WITH A SUPPLEMENTAL TANK, ENSURE THAT THE RAS CONNECTION IS FACING THE SUPPLEMENTAL TANK. FOR SYSTEMS WITHOUT A SUPPLEMENTAL TANK, THE PIPE WILL ALREADY BE CONNECTED TO THE TANK WALL.

NO.	DATE	BY	DESCRIPTION

NOT TO SCALE		BLOWER DETAILS		
OFFICE MANAGER M. CATHEY	DESIGNER W. HALE	DATE SEPTEMBER 2025	PROJECT # 23.00328	FUNDING #
PROJECT MANAGER K. WEBB	REVIEWER -			

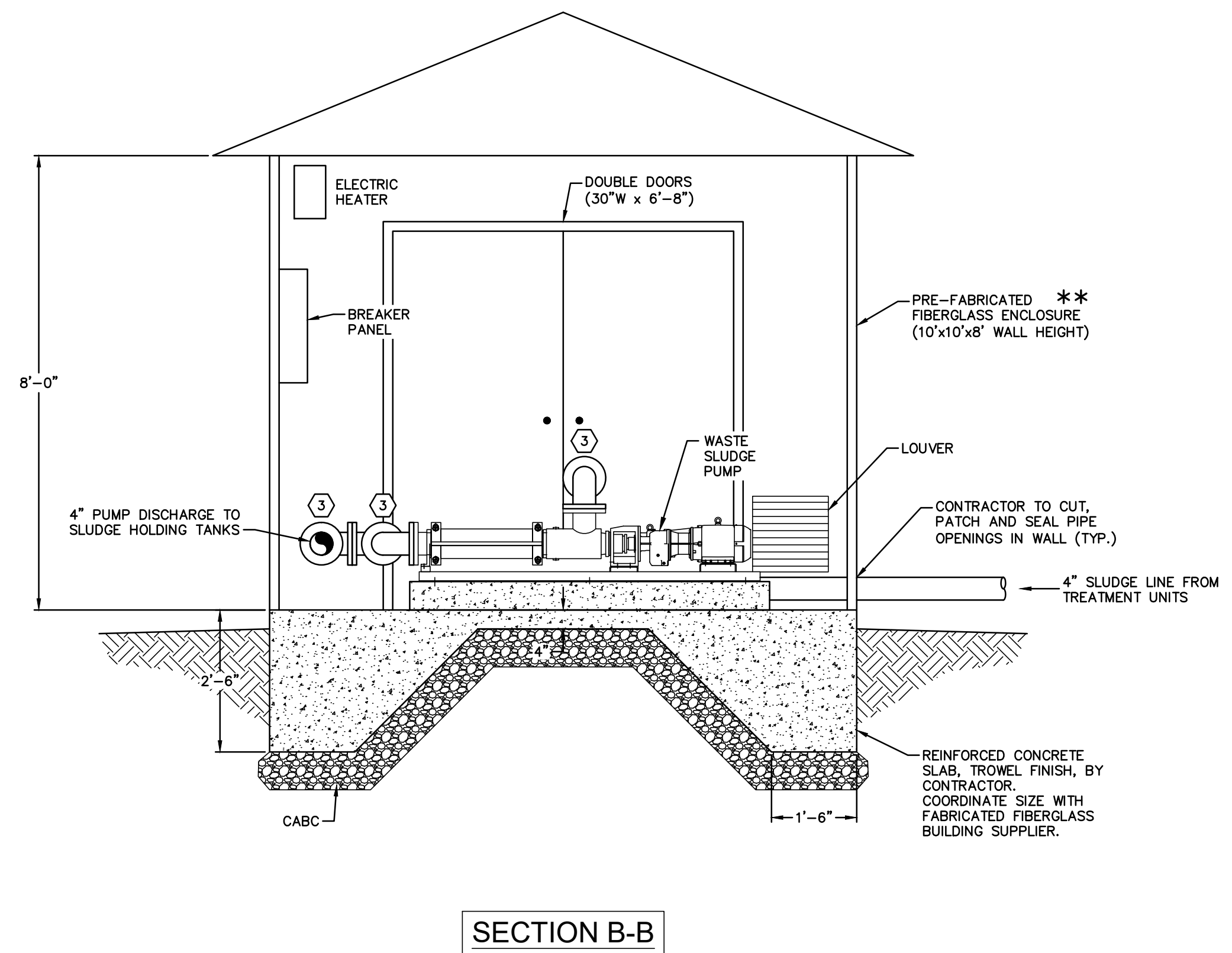


P:\2023\23.00328-HOTS-SPRINGS-NC-VWTP-INOVO\WW PILOT PROGRAM\DRAWINGS\SHEETS\23.00328-PROJECT\FOLDER-EXISTING\TREATMENT\PLANT\23.00328-EX-VWTP-MECH.DWG PLOT DATE 9/11/2025 11:51 AM JOE MALDONADO



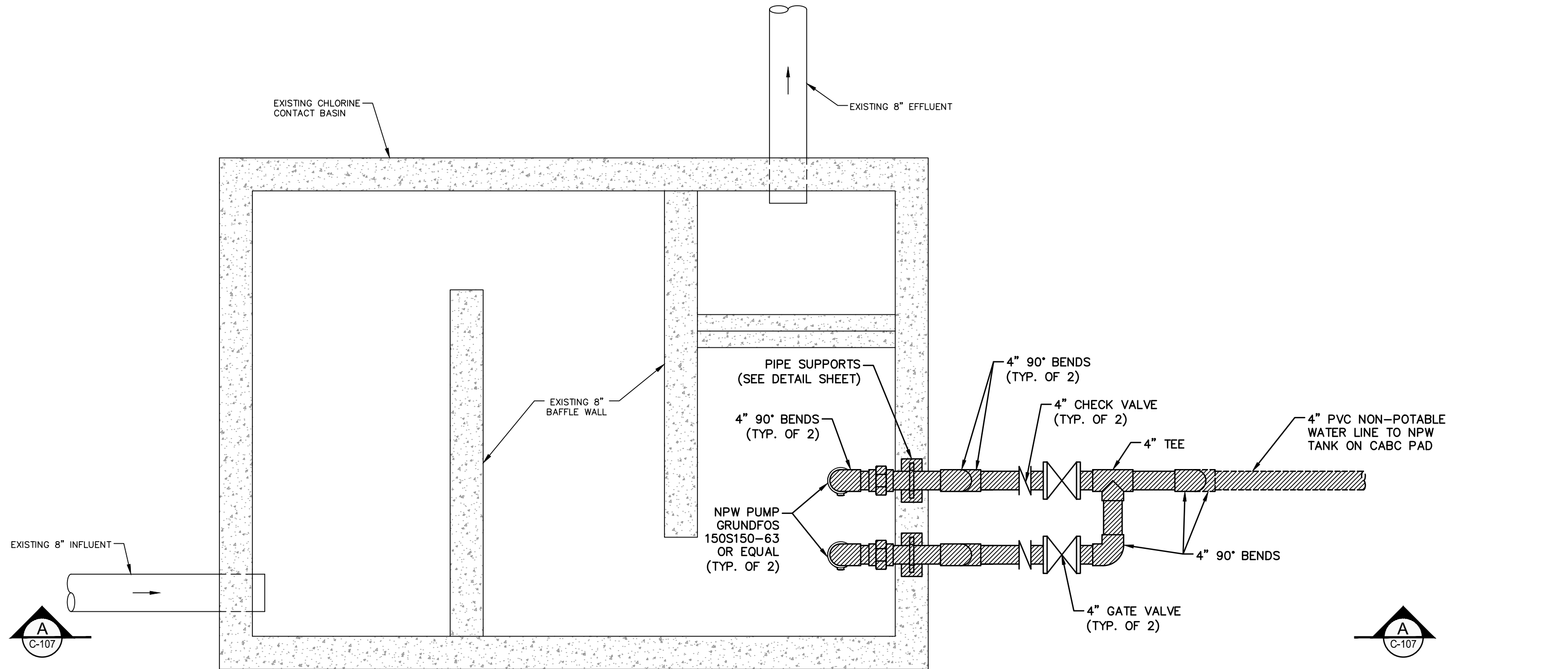
NOTE:
* WASTE SLUDGE PUMP PROVIDED BY OWNER. CONTRACTOR TO INSTALL
** AT CONTRACTOR'S OPTION, CONTRACTOR MAY CONSTRUCT CMU BUILDING INSTEAD OF PREFAB FIBERGLASS PER DETAIL ON SHEET C-502, TYPICAL BUILDING SECTION.

- KEYNOTE LEGEND**
1. 4"x4"x4" FL. TEE
 2. 4" PLUG VALVE
 3. 4" FL. 90° BEND

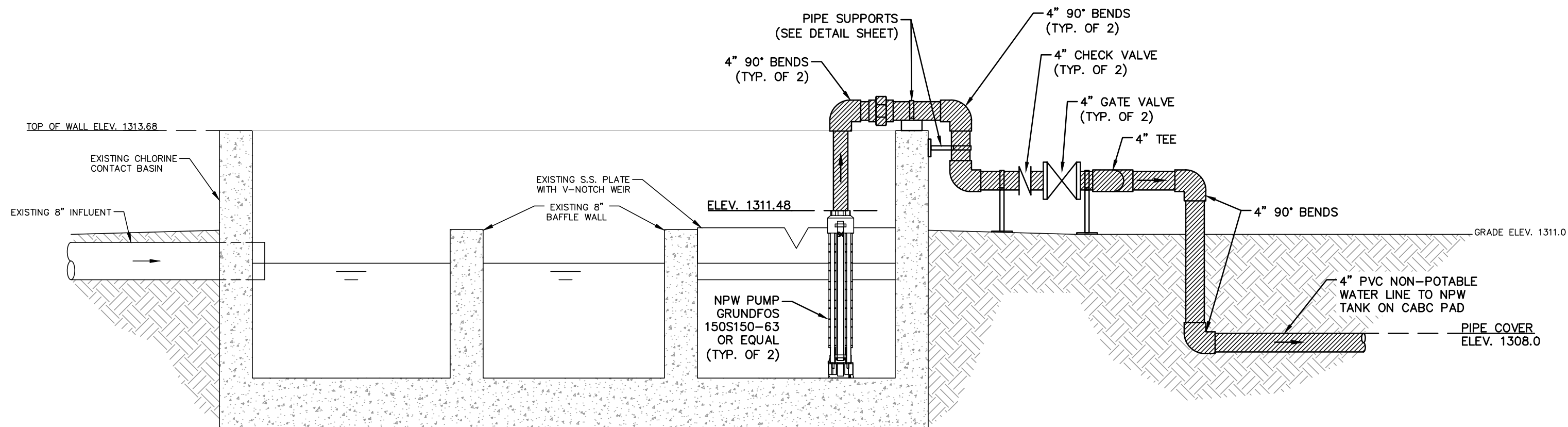


NO.	DATE	BY	DESCRIPTION

P:\2023\23 00328-HOTS SPRINGS-NC-VWTP INNOV WW PILOT PROGRAM\DRAWINGS\SHEETS\23 00328-PROJECT\FOLDER_EXISTING\TREATMENT\PLANT\23 00328-EX-VWTP-NPW PUMP STATION.DWG PLOT DATE 9/11/2025 1:49 AM JOE MALDONADO



PLAN

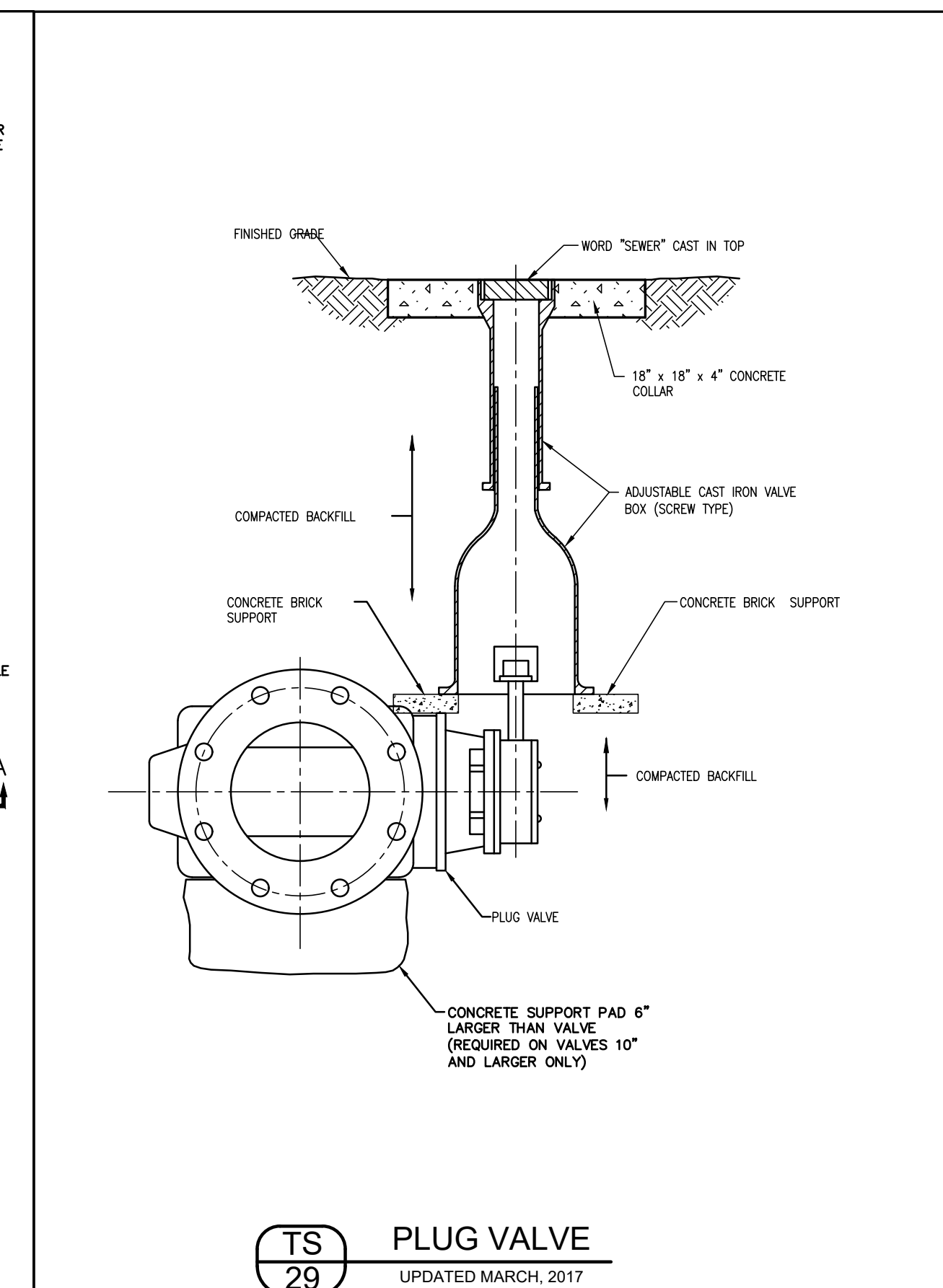
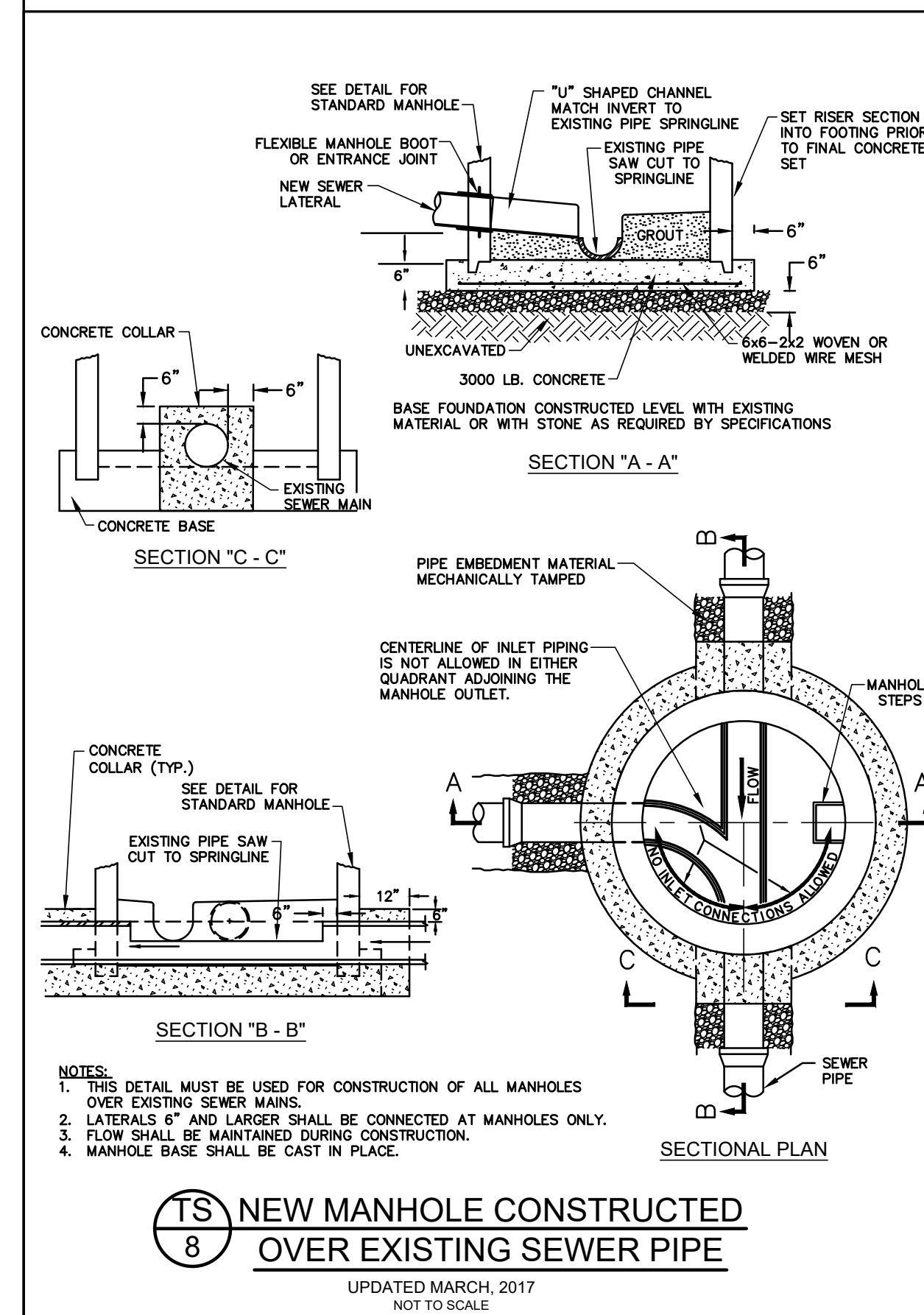
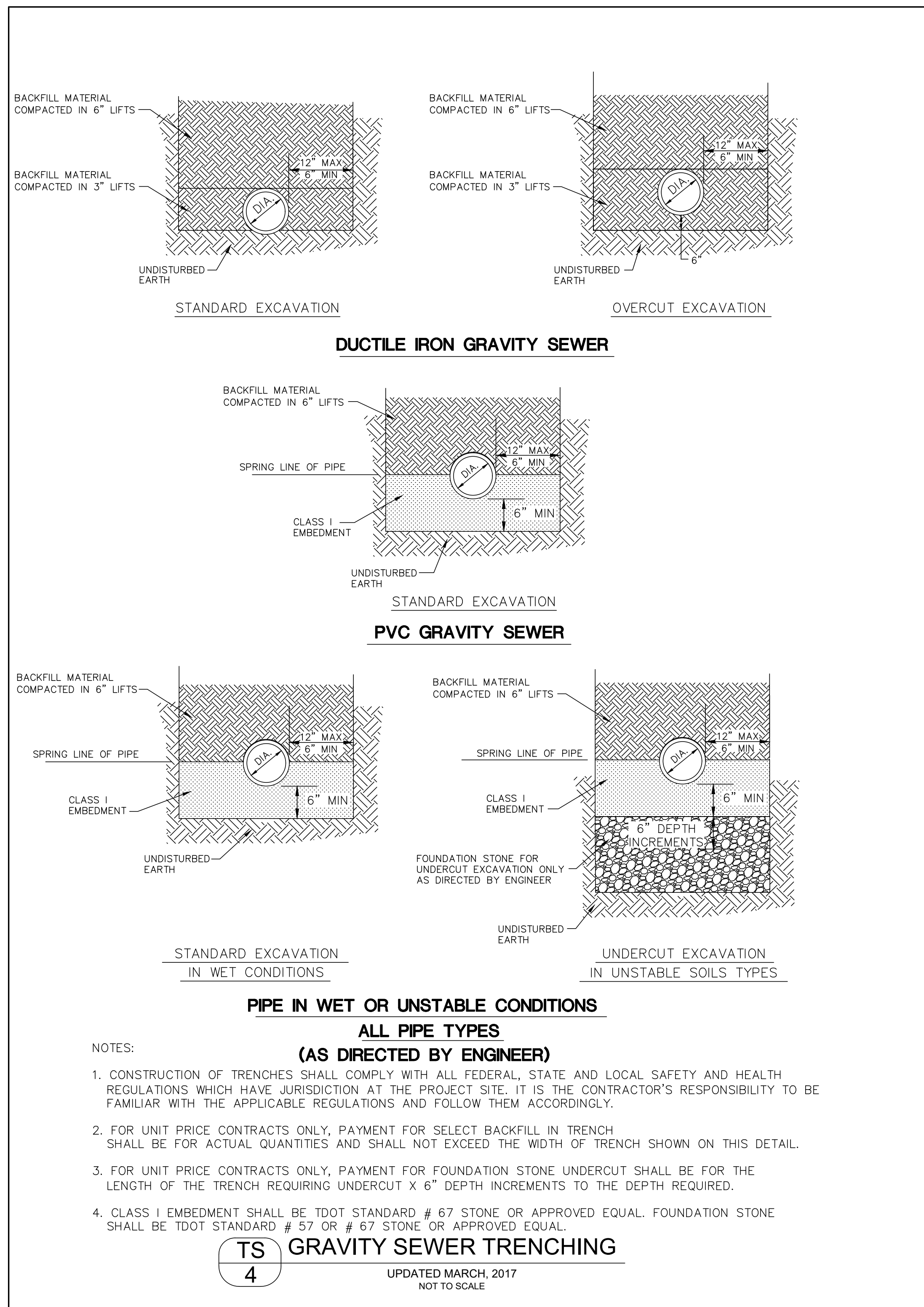


SECTION A-A

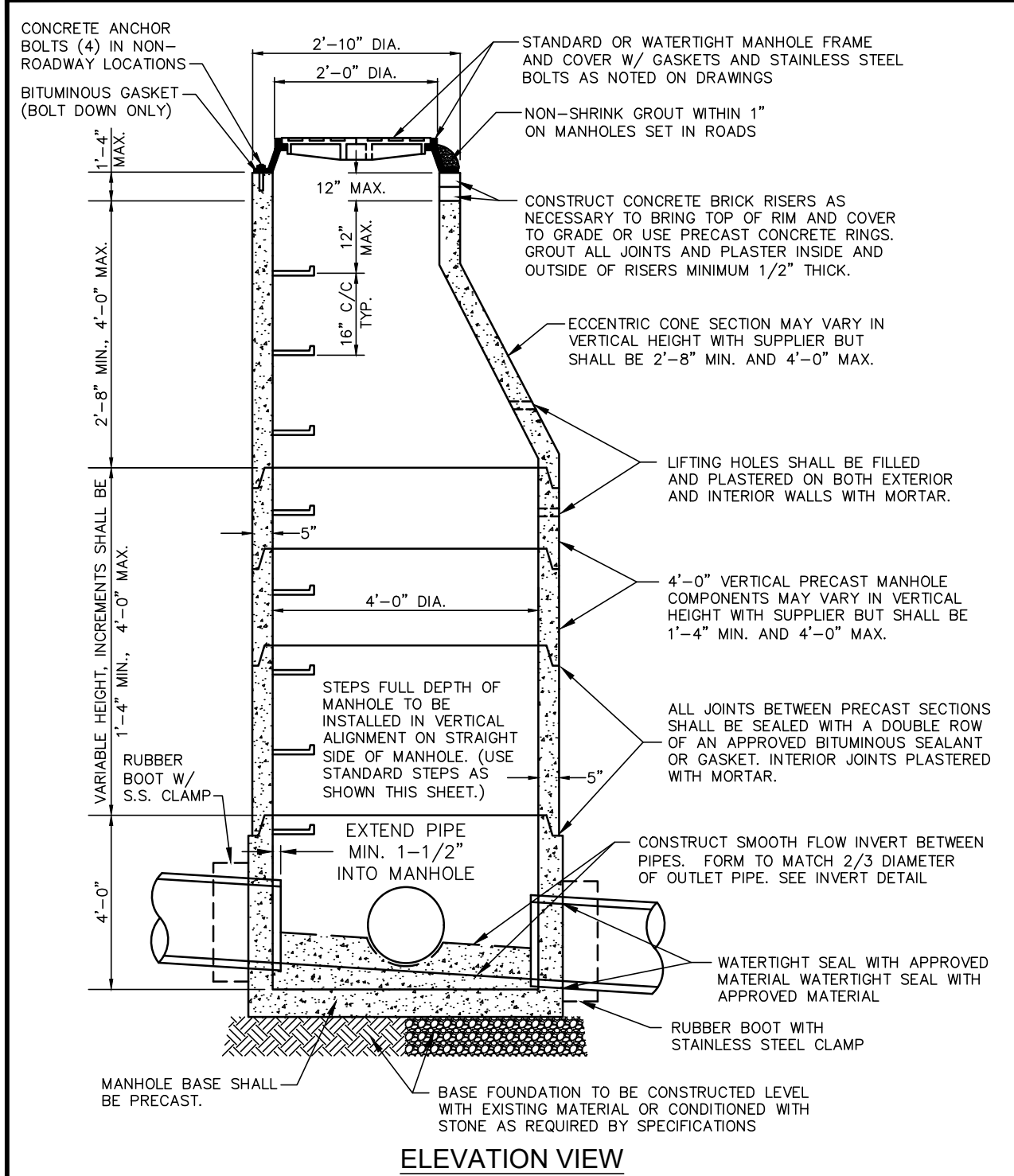
NOTES

1. NPW = NON-POTABLE WATER.
2. ALL EXPOSED PIPING TO BE HEAT TRACED AND INSULATED.
3. ALL NPW PIPES TO BE PVC SCHEDULE 80 WITH GLUE JOINTS.
4. ALL VALVES ARE TO BE DUCTILE IRON WITH FLANGED CONNECTIONS WHERE REQUIRED TO SCHEDULE 80 PVC GLUE JOINTS.
5. PROVIDE TWO (2) SUBMERSIBLE NON-POTABLE WATER (NPW) PUMPS, 108 GPM AT 205 FT TDH, GRUNDFOS MODEL 150S OR EQUAL. PROVIDE VARIABLE FREQUENCY DRIVES, 10 HP, FOR EACH PUMP. OPERATE PUMPS IN LEAD/LAG CONFIGURATION CONTROLLED FROM PUMP CONTROL PANEL. PROGRAM CONTROLS TO ADJUST VFD'S TO MAINTAIN PRESSURE RANGE OF 60 PSI TO 75 PSI.

NO.	DATE	BY	DESCRIPTION



P:\2023\23.0028-HOTS-SPRINGS-NC-VWTP-11NOV\WV PILOT PROGRAM\DRAWINGS\11NOV\WV PILOT PROGRAM\GENERAL\DWG PLOT DATE 9/11/2025 11:52 AM JOE MALDONADO

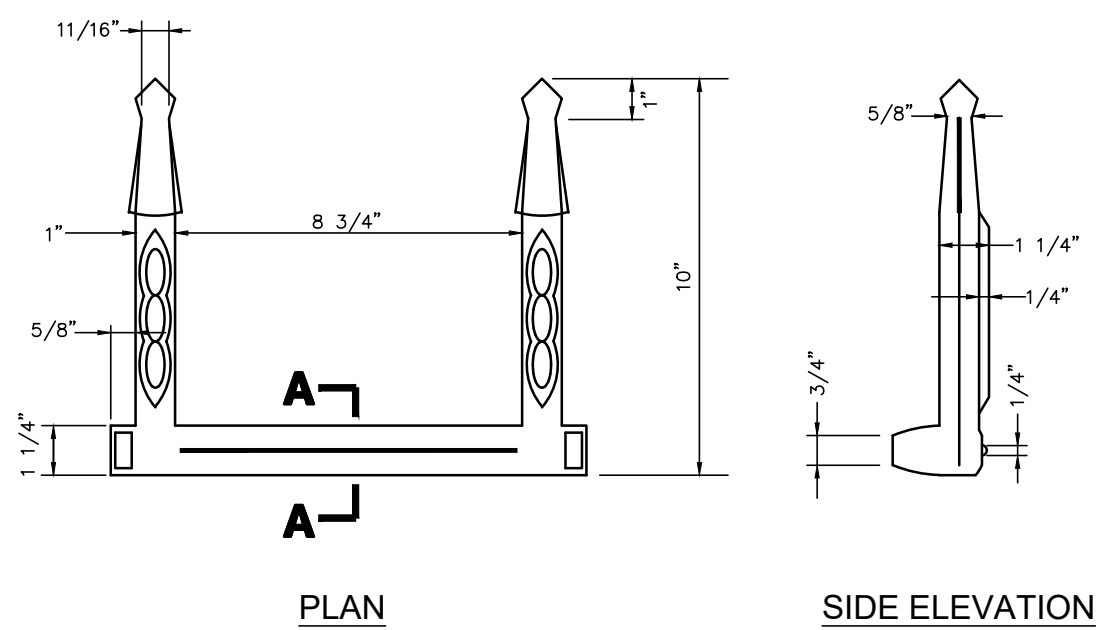


ELEVATION VIEW

PRECAST MANHOLE NOTES:

1. ALL PRECAST MANHOLE COMPONENTS SHALL MEET REQUIREMENTS OF ASTM C-478, LATEST REVISION AND ASTM C-890.
2. ALL MANHOLES SHALL BE CONSTRUCTED PLUMB.
3. THE PRECAST SUPPLIER SHALL BE RESPONSIBLE FOR THE STRUCTURAL DESIGN OF THE STRUCTURE AND, WHEN REQUESTED BY THE ENGINEER, SHALL SUBMIT SHOP DRAWINGS AND DESIGN CALCULATIONS WHICH HAVE BEEN SIGNED AND SEALED BY A REGISTERED STRUCTURAL ENGINEER.
4. ALL MANHOLE GRADES SHOWN ON THE PLANS ARE FOR THE INVERT OF THE MANHOLE CENTER.
5. IF MANHOLE IS SET IN LOCATION OF HIGH WATER TABLE OR UNDERGROUND WATER IS ENCOUNTERED, THE CONTRACTOR SHALL INSTALL UNDERDRAINS AND STONE AS DIRECTED IN THE FIELD BY THE ENGINEER.
6. STEPS SHALL BE INSTALLED ON STRAIGHT SIDE OF MANHOLE.

PRECAST CONCRETE MANHOLE



ELEVATION

SECTION A-A

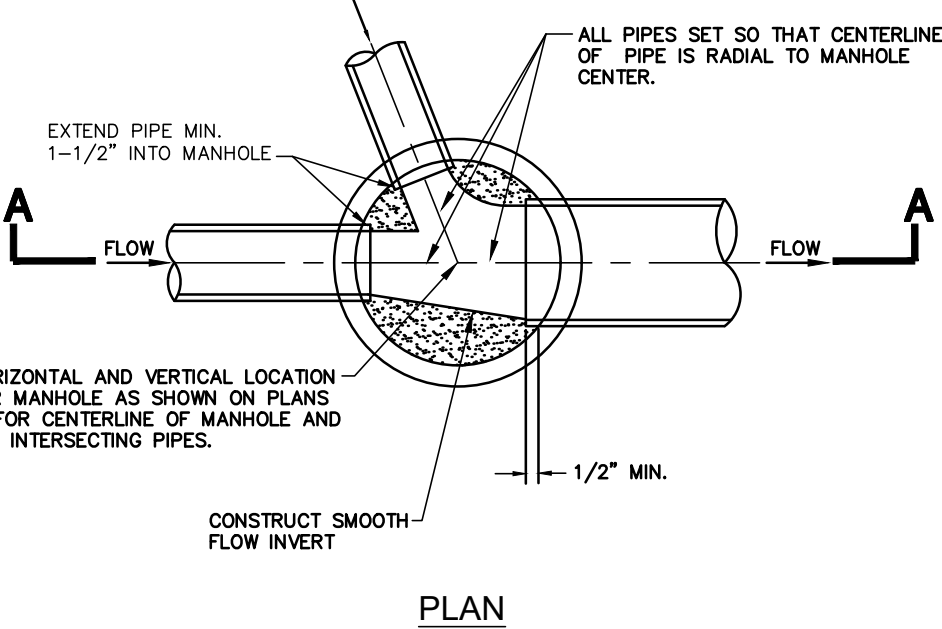
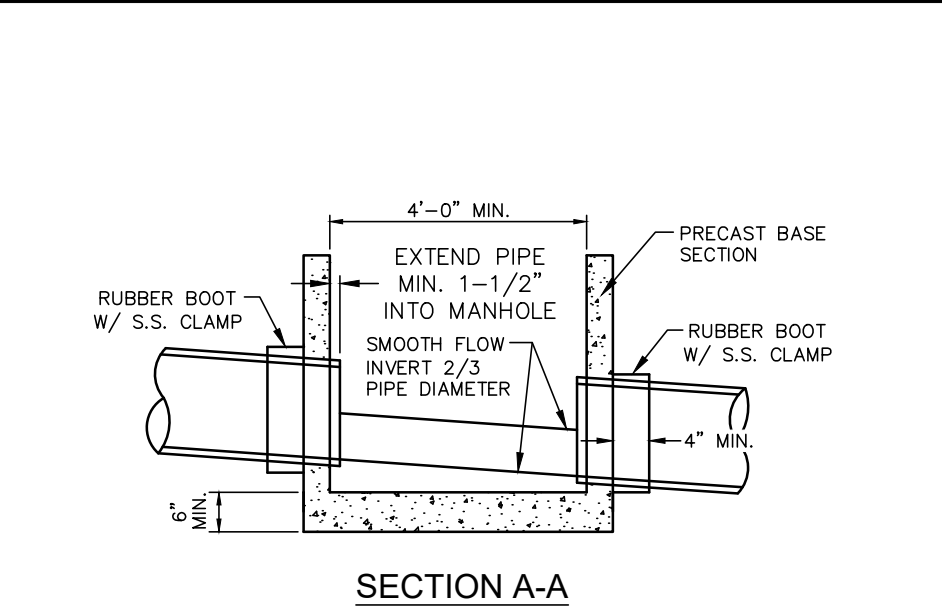
CONSTRUCTION NOTES: 1. ALL STEPS SHALL PROTRUDE A MINIMUM OF 5" AND A MAXIMUM OF 7" FROM INSIDE FACE OF STRUCTURE WALL. 2. STEPS DIFFERING IN DIMENSIONS, CONFIGURATION, OR MATERIALS FROM THOSE SHOWN MAY ALSO BE USED PROVIDED THE CONTRACTOR HAS FURNISHED THE ENGINEER WITH DETAILS OF THE PROPOSED STEPS AND HAS RECEIVED PRIOR WRITTEN APPROVAL FROM THE ENGINEER FOR THE USE OF SAID STEPS.

MANHOLE STEPS

S
1

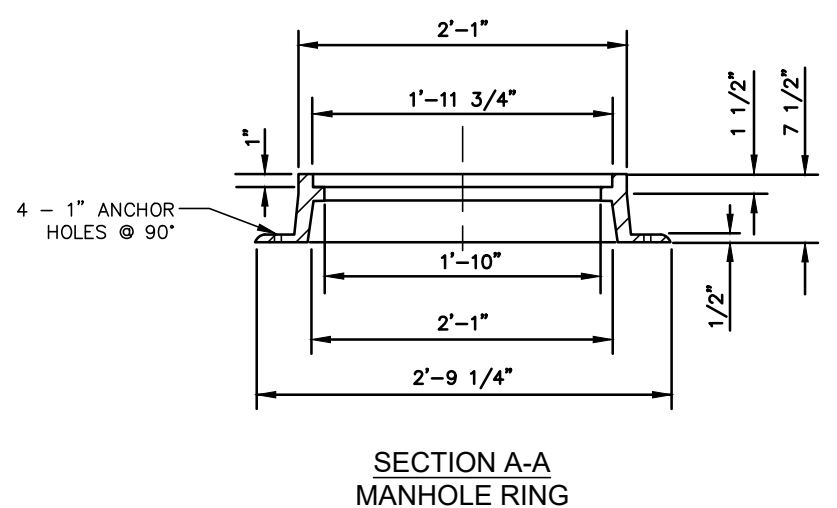
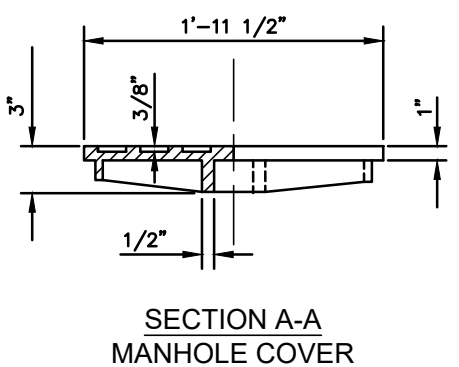
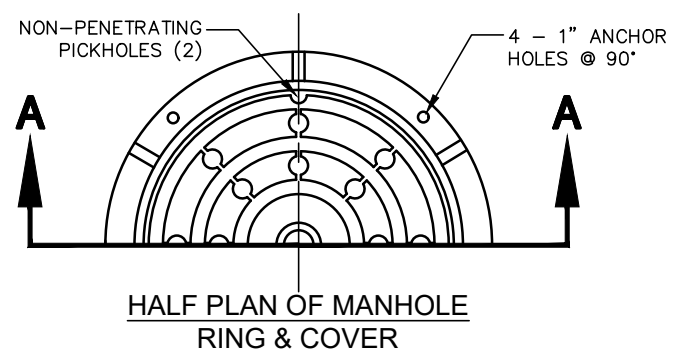
PRECAST CONCRETE MANHOLE DETAILS

UPDATED MARCH, 2017
NOT TO SCALE



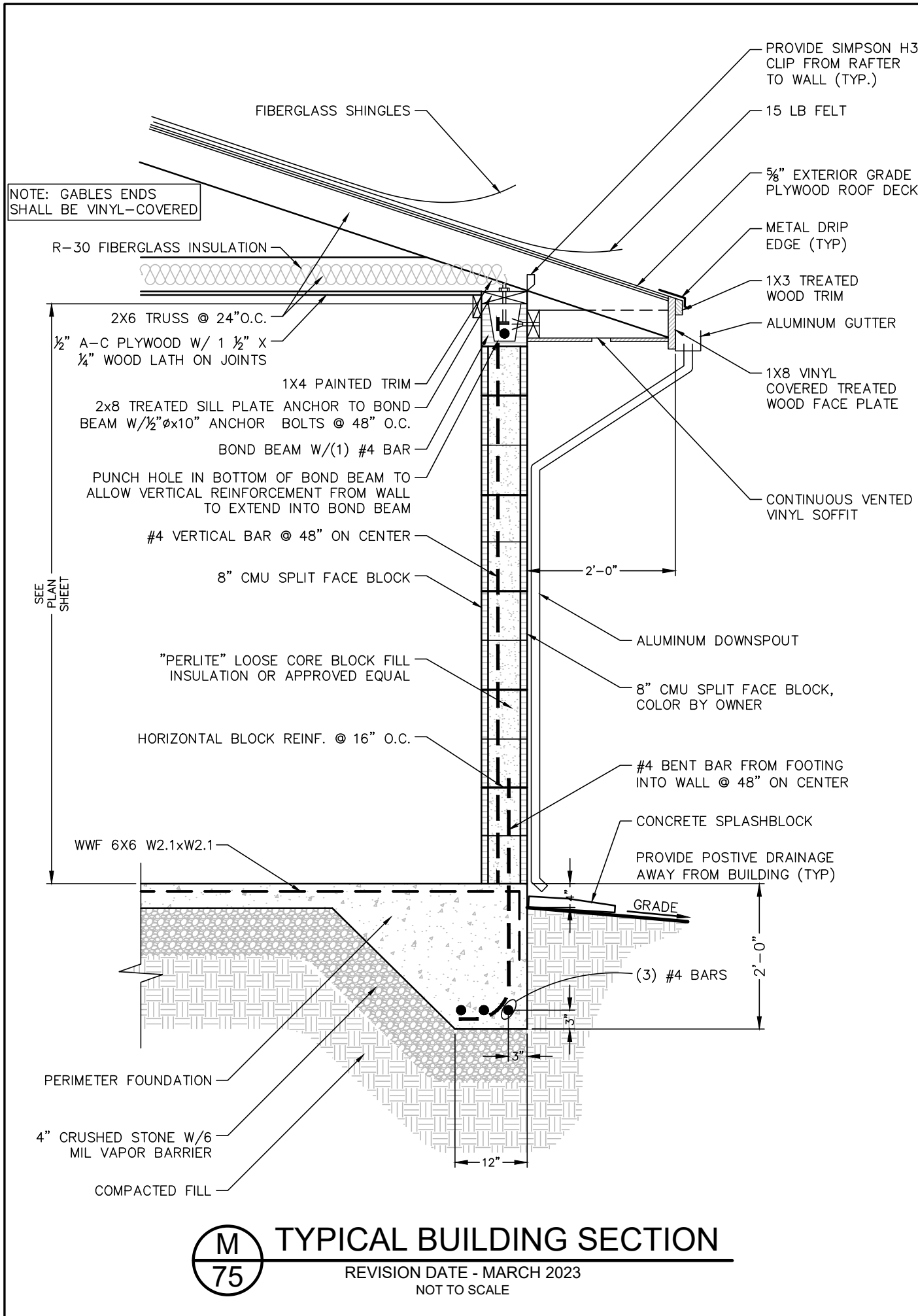
NOTE: MANHOLES ON PLANS NOTED AS HIGH VELOCITY MANHOLES SHALL RECEIVE TWO COATS OF SIKAGARD 62, HIGH-BUILD, EPOXY RESIN COATING OR APPROVED EQUAL ON INVERT CHANNEL.

MANHOLE INVERTS



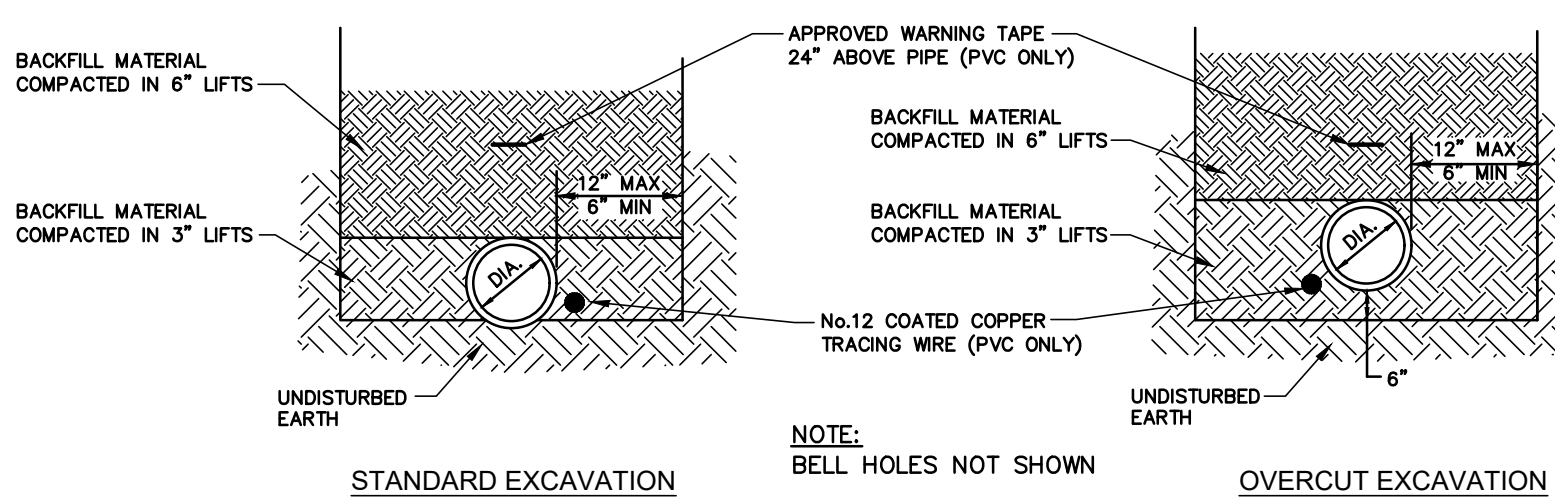
NOTE: TRAFFIC BEARING RING AND COVER. MINIMUM WEIGHT 315 POUNDS

MANHOLE RING AND COVER



M
75

TYPICAL BUILDING SECTION



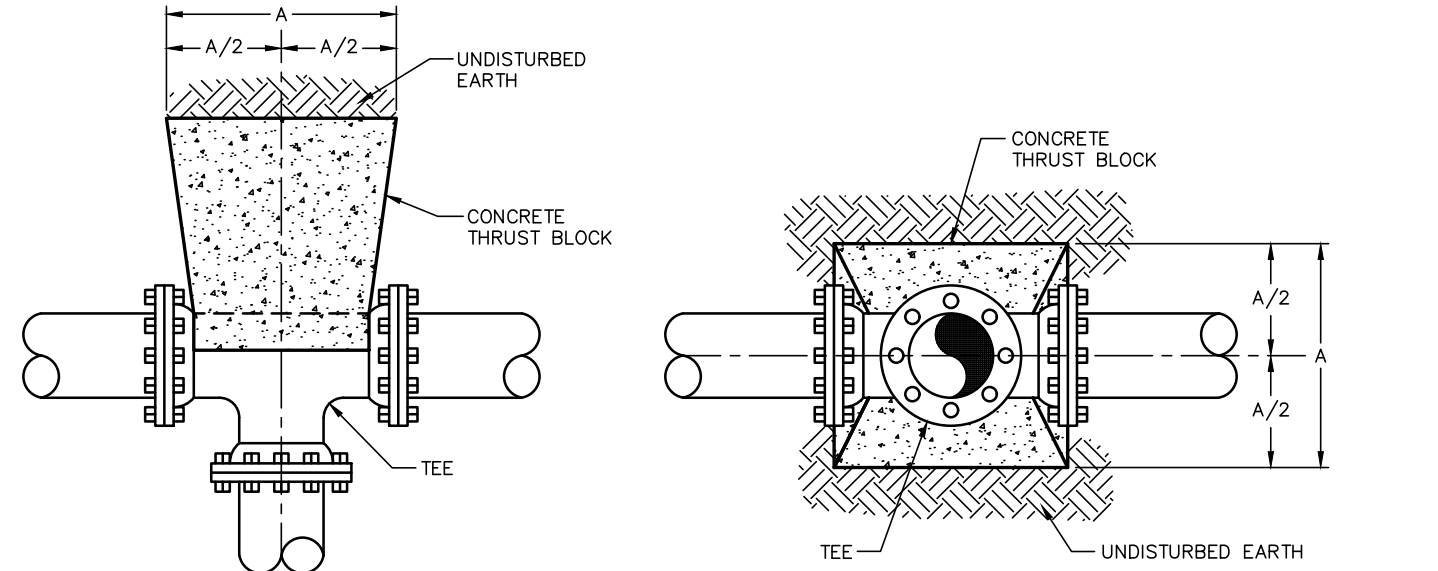
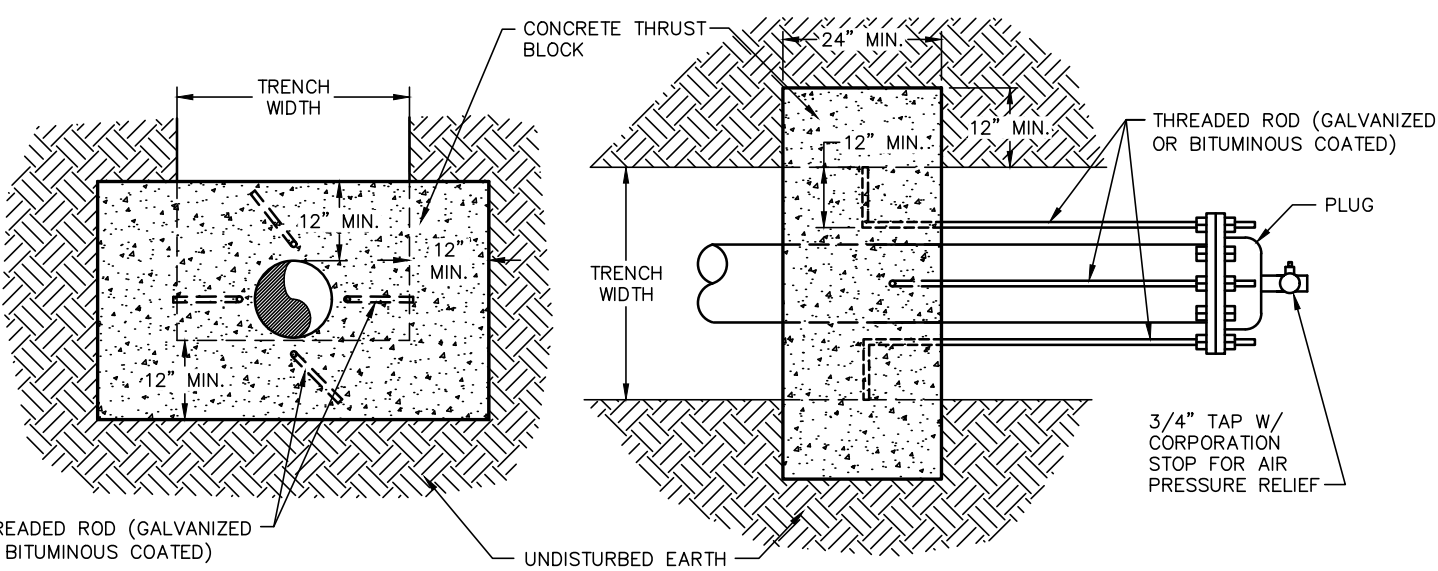
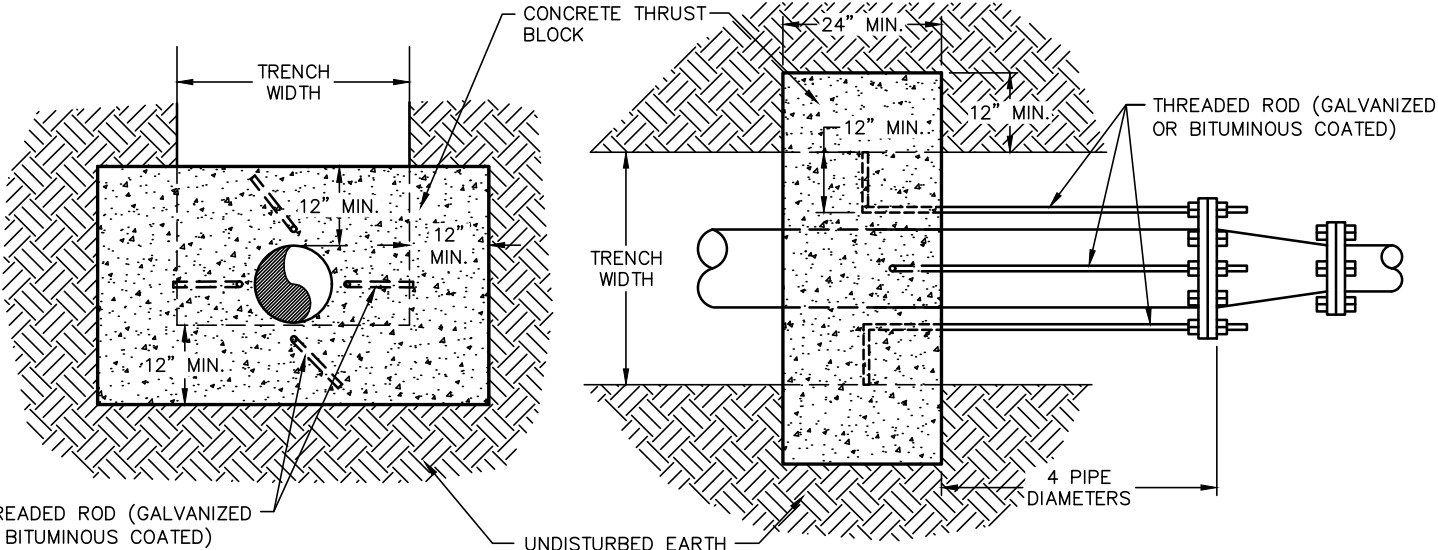
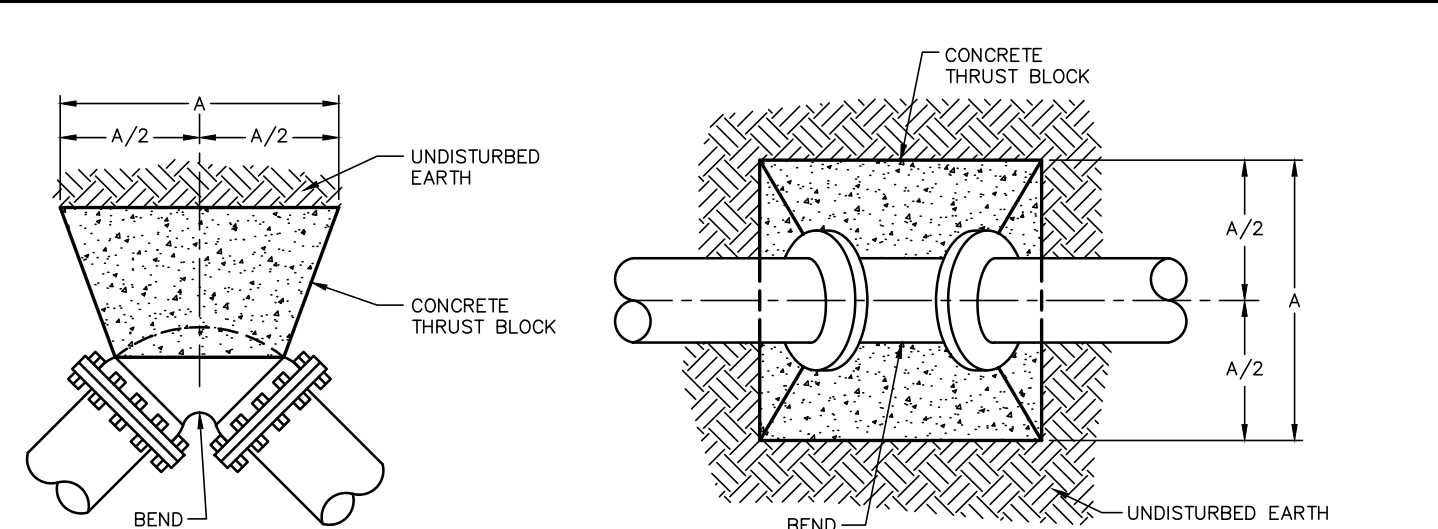
NOTES:

1. CONSTRUCTION OF TRENCHES SHALL COMPLY WITH ALL FEDERAL, STATE AND LOCAL SAFETY AND HEALTH REGULATIONS WHICH HAVE JURISDICTION AT THE PROJECT SITE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BE FAMILIAR WITH THE APPLICABLE REGULATIONS AND FOLLOW THEM ACCORDINGLY.
2. PAYMENT FOR ROCK EXCAVATION AND SELECT BACKFILL IN TRENCH SHALL BE FOR ACTUAL QUANTITIES AND SHALL NOT EXCEED THE WIDTH OF TRENCH SHOWN ON THIS DETAIL.

S
24

SEWER FORCE MAIN TRENCHING

UPDATED MARCH, 2017
NOT TO SCALE



- NOTES:
1. FITTING JOINTS SHALL NOT BE POURED IN CONCRETE OR HAVE CONCRETE SPILLED ON THE BOLTS OR NUTS. THE FITTING SHALL BE WRAPPED IN A LAYER OF POLYETHYLENE PLASTIC PRIOR TO POURING THE THRUST BLOCK.
 2. ROD AND EYE BOLT DIAMETER SHALL BE A MINIMUM OF 3/4" AND SHALL MATCH THE SIZE OF THE BOLT PROVIDED WITH THE FITTING.
 3. CONTRACTOR SHALL REPLACE FITTING BOLTS WITH THREADED ROD FOR 1/2 OF THE BOLTS SUPPLIED WITH EACH FITTING. RODS SHALL BE EQUALLY SPACED.

SIZE	TYPE					
	11-1/4" BEND	22-1/2" BEND	45" BEND	90" BEND	TEE	PLUG
2-6	12	12	12	16	16	14
8	12	12	16	22	22	18
10	12	14	20	28	28	22
12	12	18	24	32	32	28
14	14	22	28	38	38	32
16	16	24	32	42	42	36
18	18	26	36	48	48	40
20	20	28	40	52	52	44
24	24	34	46	64	64	54
30	30	42	58	78	78	66
36	36	50	70	94	94	80
42	40	58	80	108	108	92
48	46	66	90	124	124	104

THRUST BLOCK DIMENSION "A"

S
28

THRUST BLOCKING - ALL

UPDATED MARCH, 2017
NOT TO SCALE

NO.	DATE	BY	DESCRIPTION

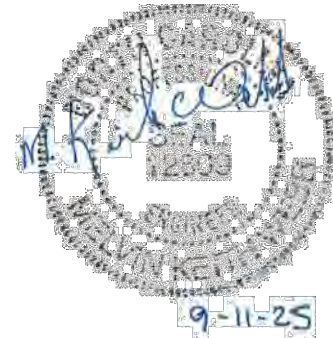
NOT TO SCALE

OFFICE MANAGER M. CATHEY	DESIGNER W. HALE
PROJECT MANAGER K. WEBB	REVIEWER -

DATE SEPTEMBER 2025	PROJECT # 23.00328	FUNDING #
------------------------	-----------------------	-----------

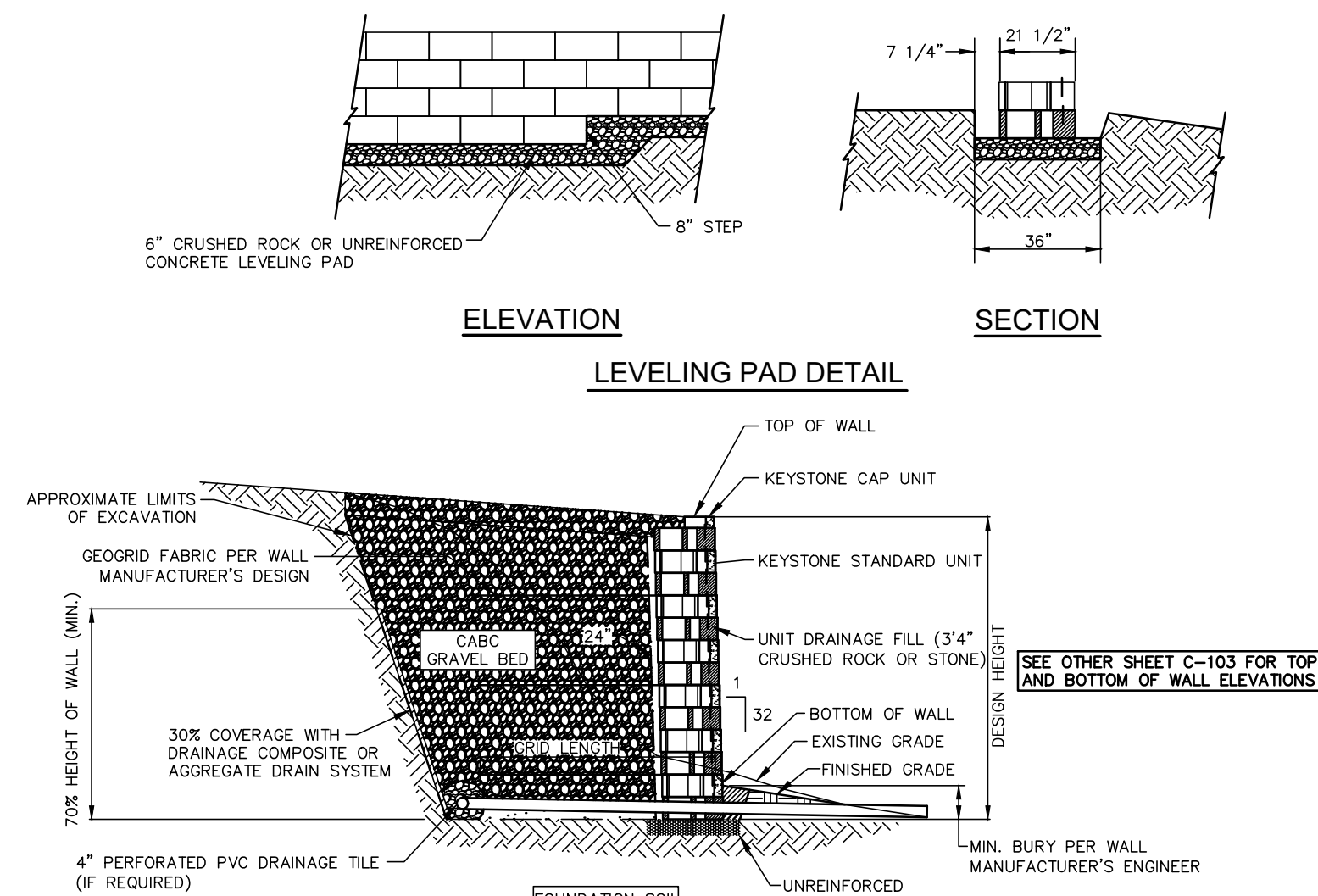
SHEET

C-502

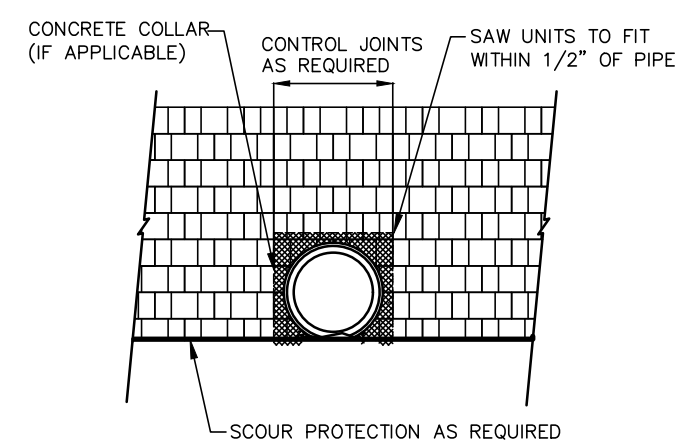
[illegible]

DATE	PROJECT #	FUNDING #
SEPTEMBER 2025	23.00328	

C-503

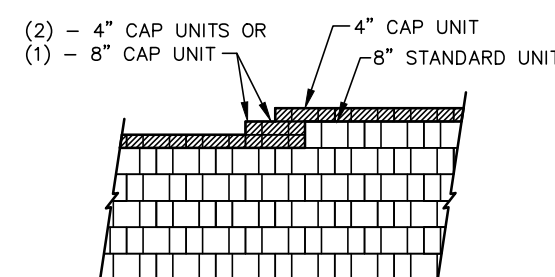


TYPICAL REINFORCED CUT WALL SECTION
STANDARD UNIT - NEAR VERTICAL SETBACK

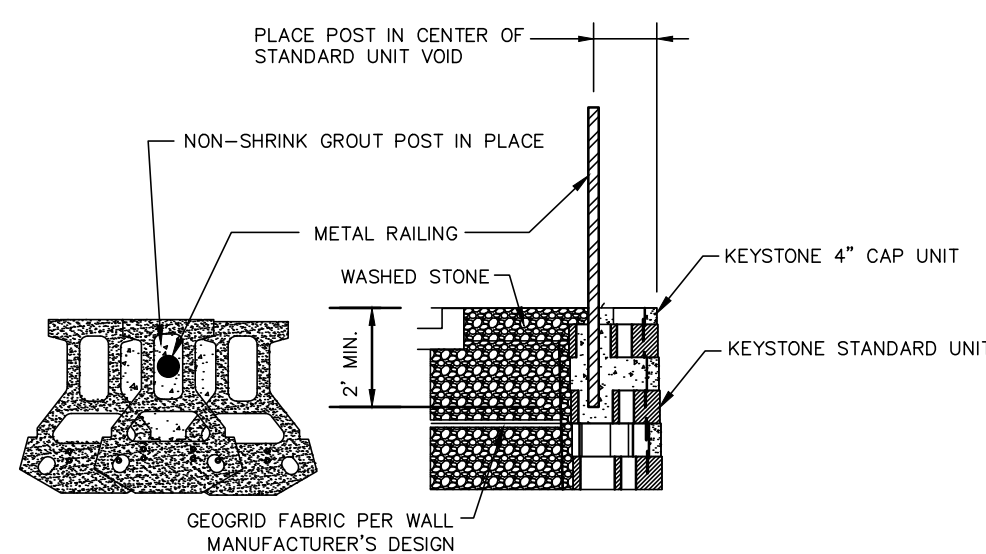


NOTE: FOR PIPES LARGER THAN 24", A
CONCRETE COLLAR MAY BE CAST AROUND PIPE
FOR EASE OF CONSTRUCTION AND APPEARANCE

TYPICAL PIPE OUTLET DETAIL



TOP OF WALL STEPS



FENCE STATION AND PLAN DETAIL

STANDARD UNIT – NEAR VERTICAL SETBACK

NOTES:

1. THIS DETAIL SHALL NOT BE USED FOR CONSTRUCTION. IT IS INTENDED TO BE USED BY THE ENGINEER AS A GUIDELINE FOR PUTTING TOGETHER CONSTRUCTION DRAWINGS & STRUCTURAL CALCULATIONS WHICH WILL BE SIGNED, SEALED AND PROVIDED TO THE CONTRACTOR FOR CONSTRUCTION OF THE RETAINING WALLS.

2. "ENGINEER" REFERS TO THE WALL MANUFACTURER'S ENGINEER, WHO WILL SUPPLY SIGNED AND SEALED DRAWINGS FOR WALL CONSTRUCTION.

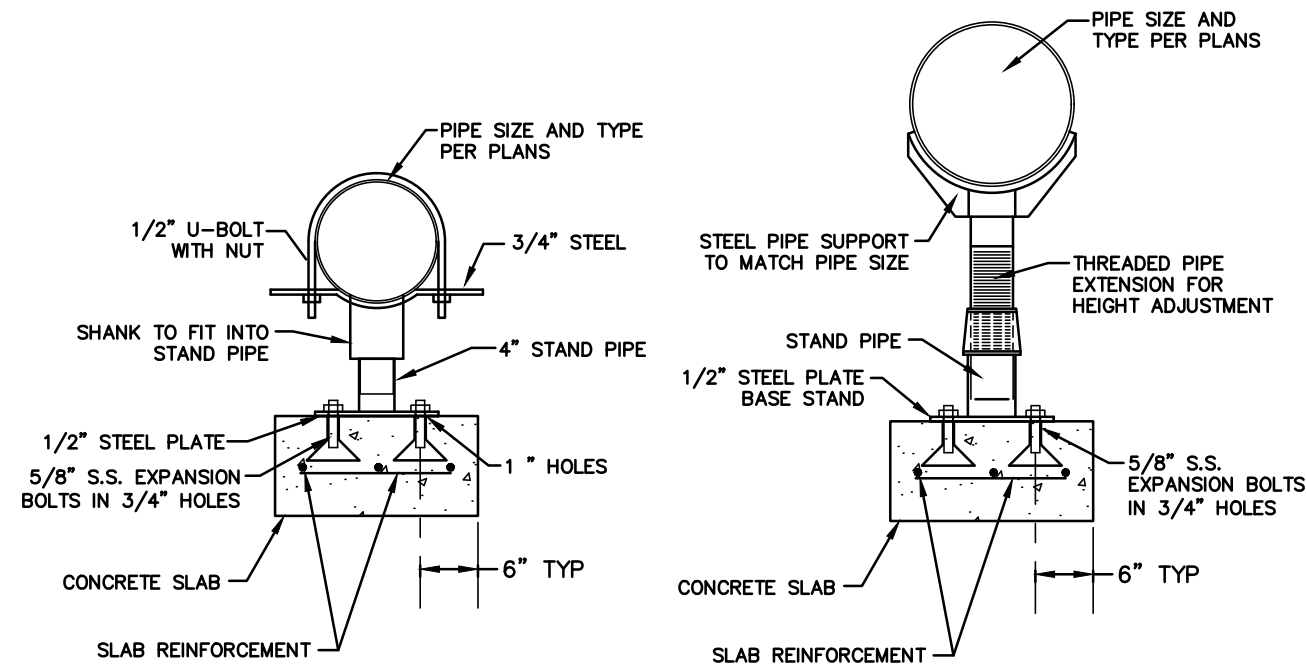
M
16

CONCRETE MODULAR RETAINING WALL

"KEystone" OR APPROVED EQUAL

UPDATED MARCH, 2017 (MODIFIED 2025)

NOT TO SCALE

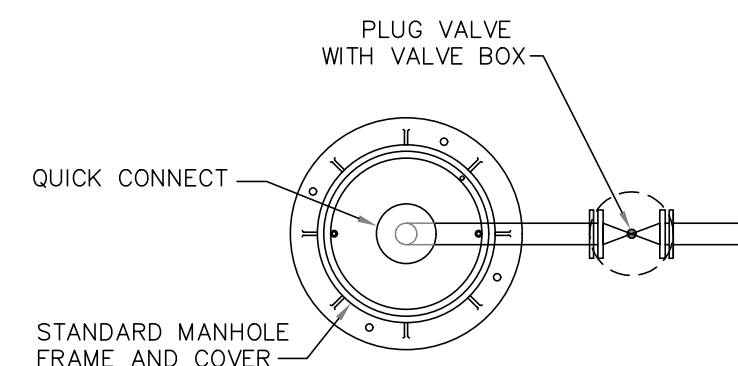


STANDARD PIPE SUPPORT

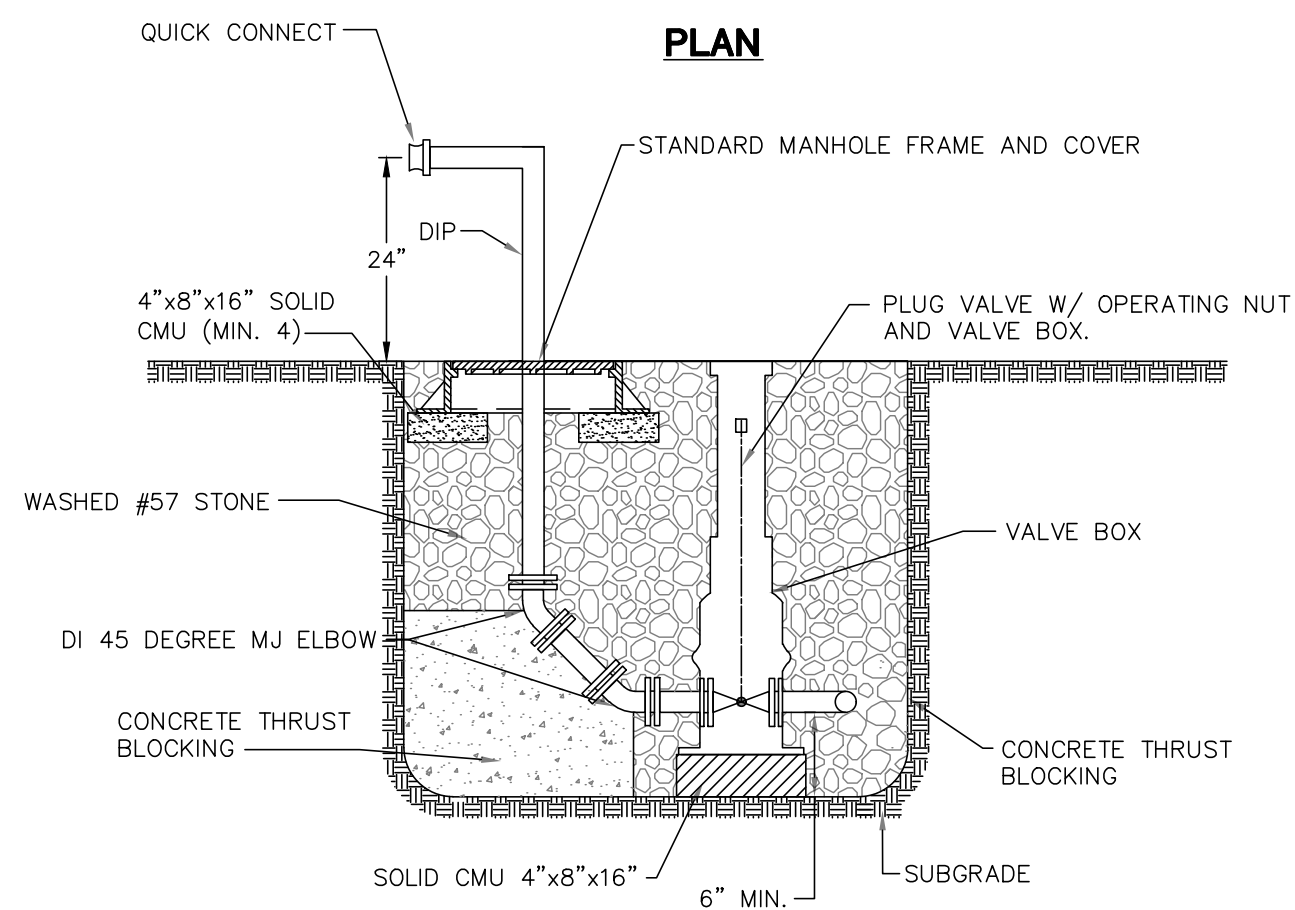
ADJUSTABLE PIPE SUPPORT

PIPE SUPPORT STAND

MODIFIED 2025
NOT TO SCALE



PLAN

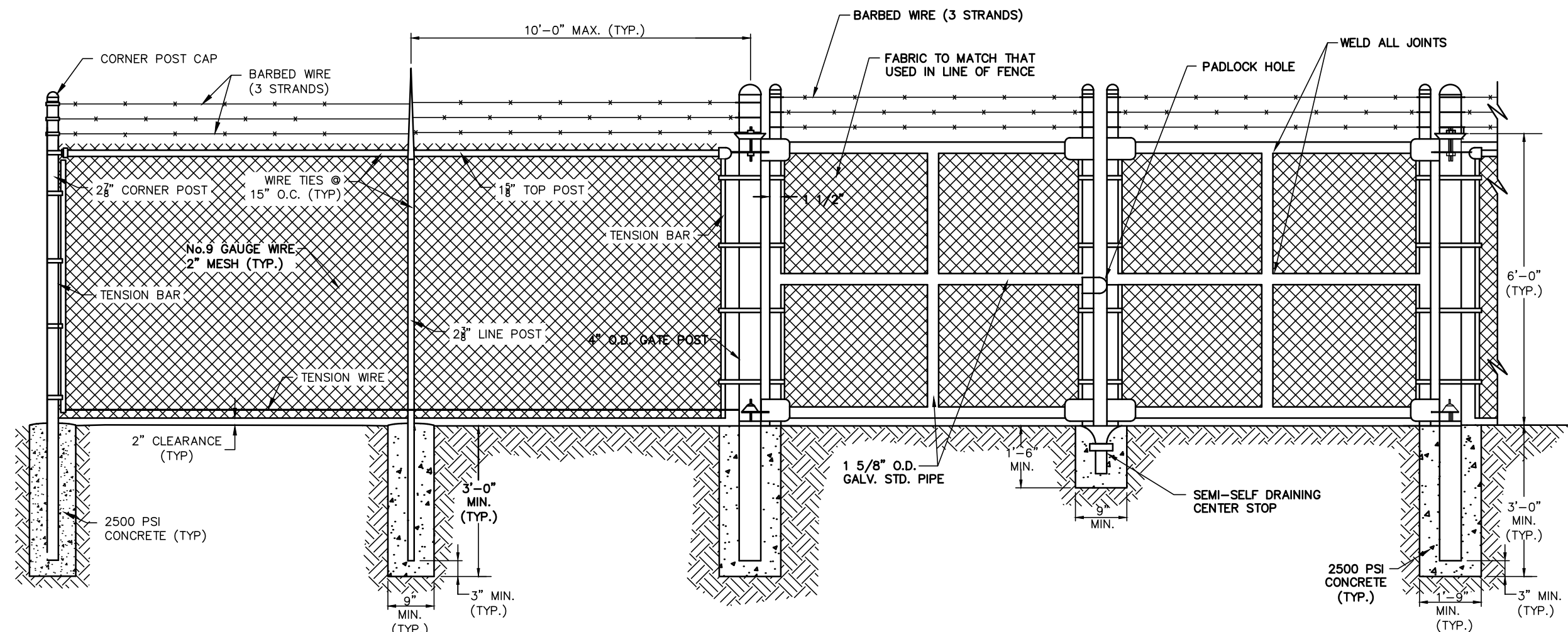


ELEVATION

NOTE: TRUCK LOADING STATION PIPING TO BE SAME
DIAMETER AS FORCE MAIN PIPING

TRUCK LOADING STATION DETAIL

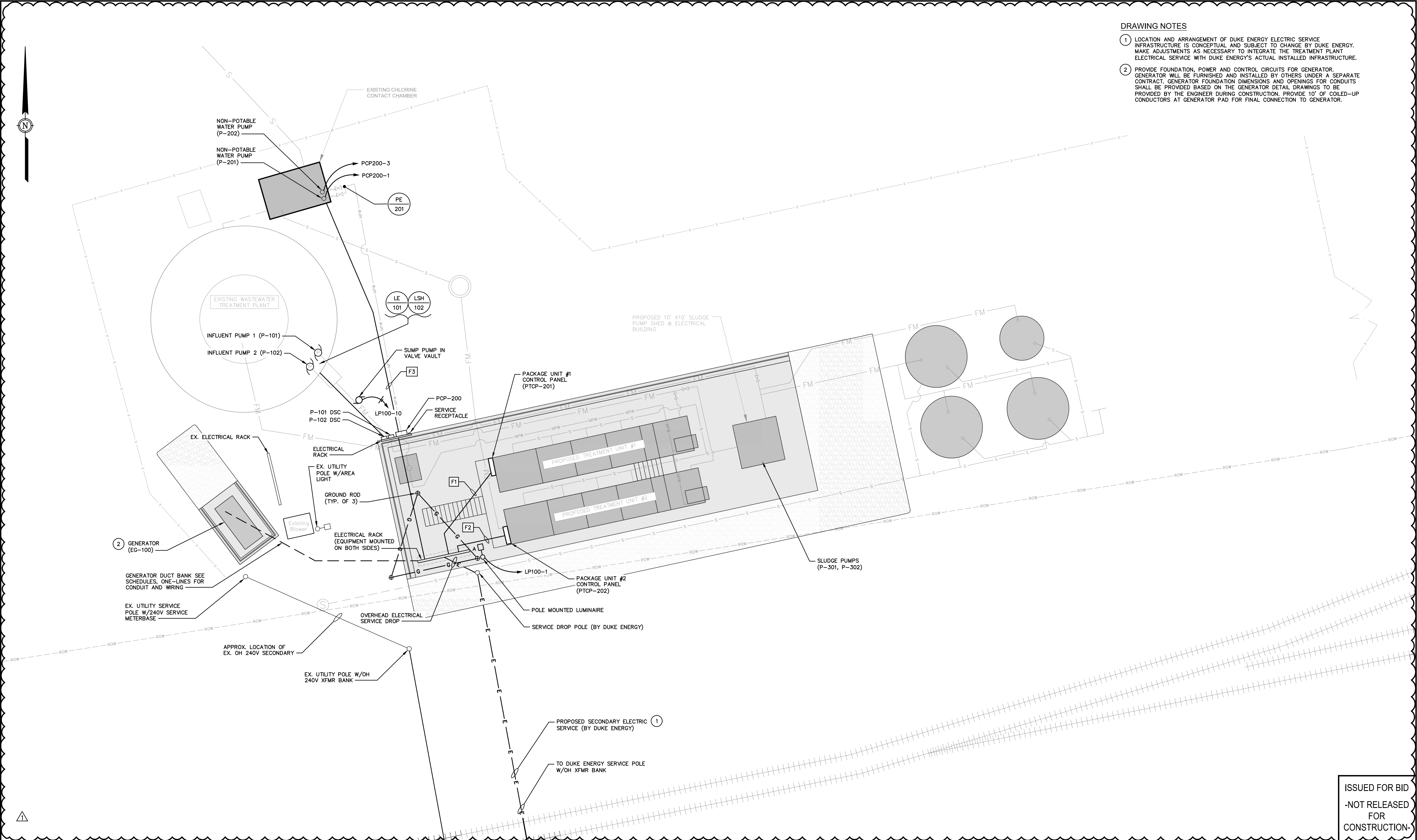
NOT TO SCALE




CHAIN LINK FENCE and DOUBLE GATE
 UPDATED MARCH, 2017
 NOT TO SCALE

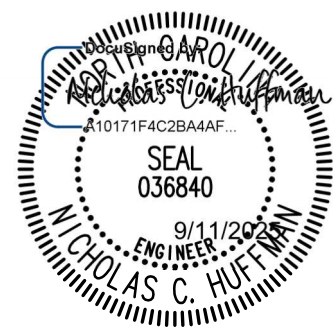
UPDATED MARCH, 201
NOT TO SCALE

P:\2023\23.00328-HOTS-SPRINGS-NC-WWTP\WW PILOT PROGRAM\DRAWINGS\ELECTRICAL\23.00328 - ELECTRICAL SITE PLAN.DWG PLOT DATE 9/11/2025 9:16 AM



DRAWING NOTES

- 1 LOCATION AND ARRANGEMENT OF DUKE ENERGY ELECTRIC SERVICE INFRASTRUCTURE IS CONCEPTUAL AND SUBJECT TO CHANGE BY DUKE ENERGY. MAKE ADJUSTMENTS AS NECESSARY TO INTEGRATE THE TREATMENT PLANT ELECTRICAL SERVICE WITH DUKE ENERGY'S ACTUAL INSTALLED INFRASTRUCTURE.
- 2 PROVIDE FOUNDATION, POWER AND CONTROL CIRCUITS FOR GENERATOR. GENERATOR WILL BE FURNISHED AND INSTALLED BY OTHERS UNDER A SEPARATE CONTRACT. GENERATOR FOUNDATION DIMENSIONS AND OPENINGS FOR CONDUITS SHALL BE PROVIDED BASED ON THE GENERATOR DETAIL DRAWINGS TO BE PROVIDED BY THE ENGINEER DURING CONSTRUCTION. PROVIDE 10' OF COILED-UP CONDUCTORS AT GENERATOR PAD FOR FINAL CONNECTION TO GENERATOR.



SIGNED AND DATED:			
THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED IN ACCORDANCE WITH THE STANDARD CERTIFICATION REQUIREMENTS FOUND IN NC ADMINISTRATIVE CODE 21-56.1103(E). THIS DIGITAL SIGNATURE HAS BEEN FOUND BY THE NC BOARD OF EXAMINERS FOR ENGINEERS AND SURVEYORS TO MEET THESE STANDARDS. PLEASE CONTACT THE SIGNER IF YOU NEED ASSISTANCE IN VALIDATING THE SIGNATURE.			
1	9/11/25	NCH	ADDENDUM NO. 1
NO.	DATE	BY	DESCRIPTION

WASTEWATER TREATMENT
PLANT UPGRADES
TOWN OF HOT SPRINGS
MADISON COUNTY - NORTH CAROLINA

10 0 5 10 20 GRAPHIC SCALE DIVISION VALUE = 10 FEET	
OFFICE MANAGER M. CATHEY	DESIGNER J. WEBB
PROJECT MANAGER M. WARESAC	REVIEWER P. FISHER

PROPOSED WASTEWATER TREATMENT PLANT ELECTRICAL SITE PLAN		
DATE SEPTEMBER 2025	PROJECT # 23.00328	FUNDING # N/A

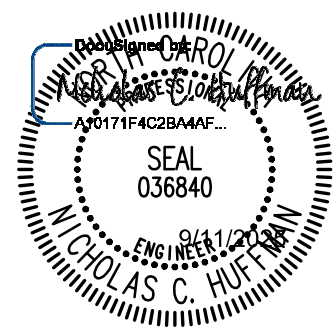
ISSUED FOR BID
-NOT RELEASED
FOR
CONSTRUCTION-

SHEET
E-101



ELECTRICAL PLAN

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



THIS DOCUMENT HAS BEEN DIGITALLY
SIGNED AND SEALED IN ACCORDANCE
WITH THE STANDARD CERTIFICATION
REQUIREMENTS FOUND IN NC
ADMINISTRATIVE CODE 21-56.1103(E).
THIS DIGITAL SIGNATURE HAS BEEN
FOUND BY THE NC BOARD OF
EXAMINERS FOR ENGINEERS AND
SURVEYORS TO MEET THESE
STANDARDS. PLEASE CONTACT THE
SIGNER IF YOU NEED ASSISTANCE IN
VALIDATING THE SIGNATURE.

WASTEWATER TREATMENT
PLANT UPGRADES
TOWN OF HOT SPRINGS
MADISON COUNTY - NORTH CAROLINA



ISSUED FOR BID
-NOT RELEASED
FOR
CONSTRUCTION-

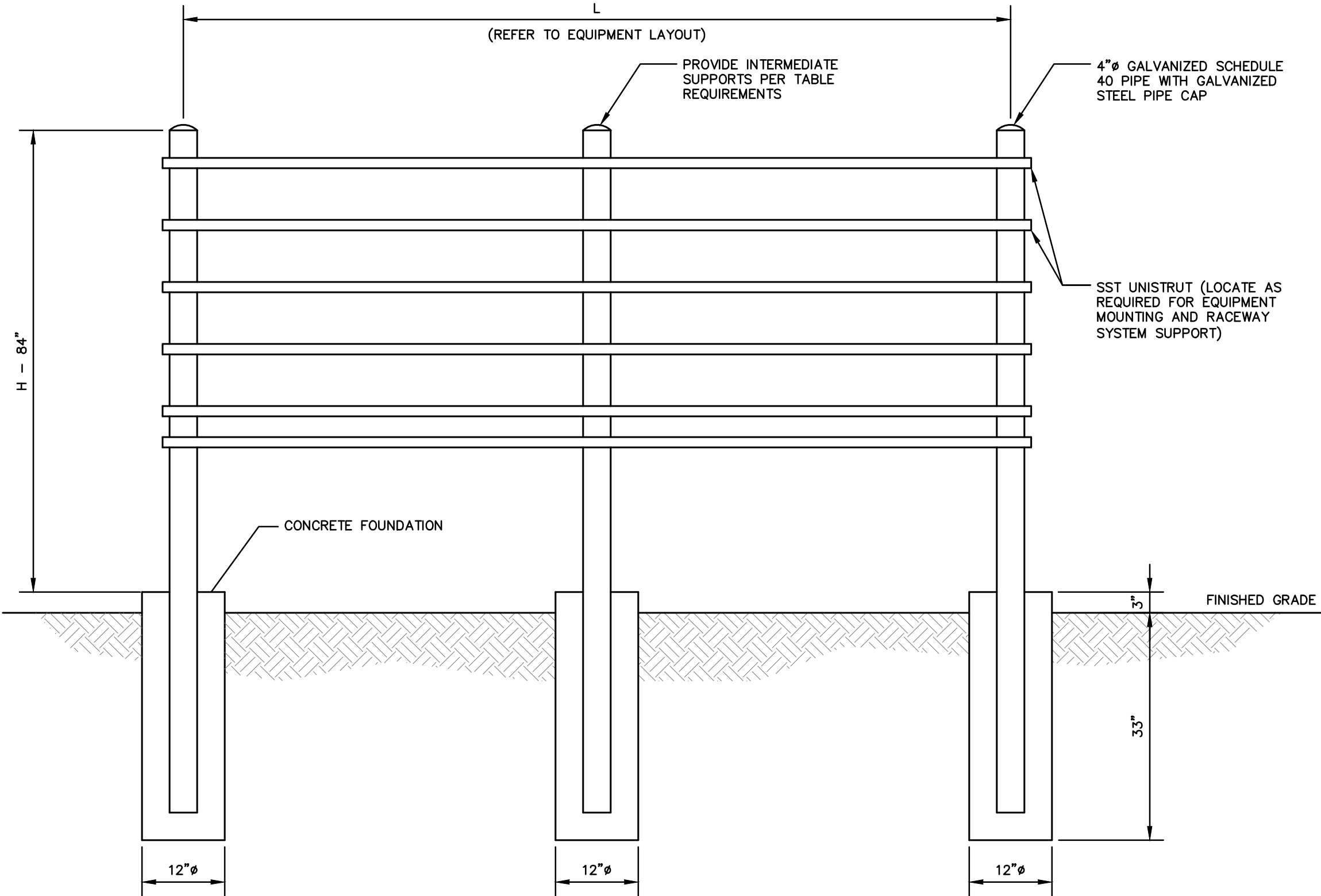
SHEET
E-102

NOTES:

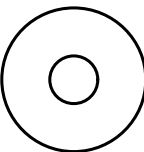
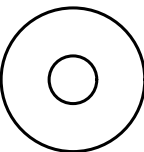
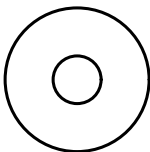
- 1) ALL CONCRETE TO BE 3000 PSI.
- 2) PROVIDE "H" AND "L" DIMENSIONS AS REQUIRED. FOR SPECIFIC EQUIPMENT LAYOUT.
- 3) EVENLY SPACE ALL REQUIRED INTERMEDIATE SUPPORTS.

INTERMEDIATE SUPPORT REQUIREMENTS

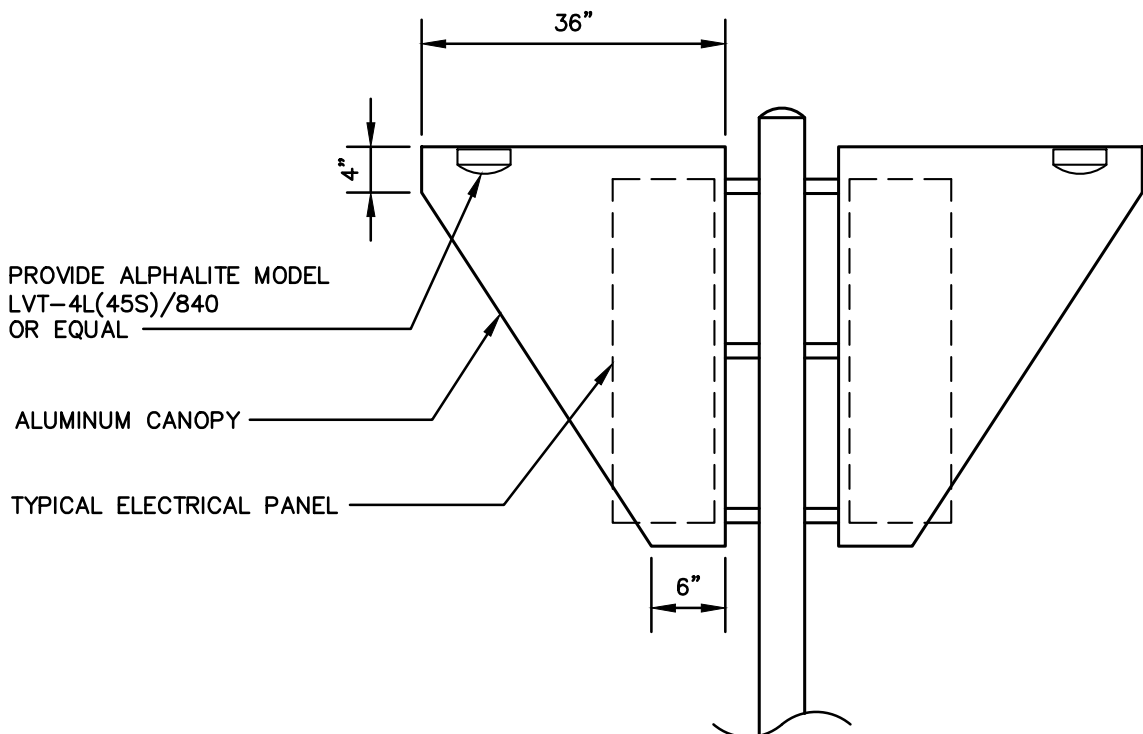
"L" DIMENSION	NO. OF INTERMEDIATE SUPPORTS REQUIRED
$L \leq 6'$	0
$6' < L \leq 12'$	1
$12' < L \leq 18'$	2



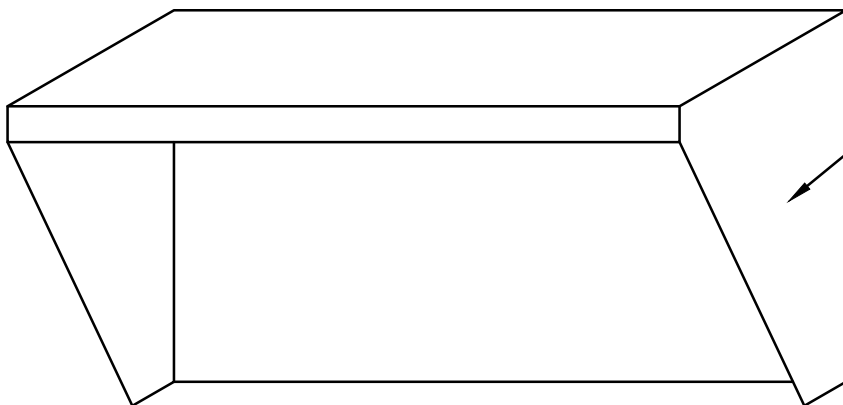
ELEVATION



PLAN



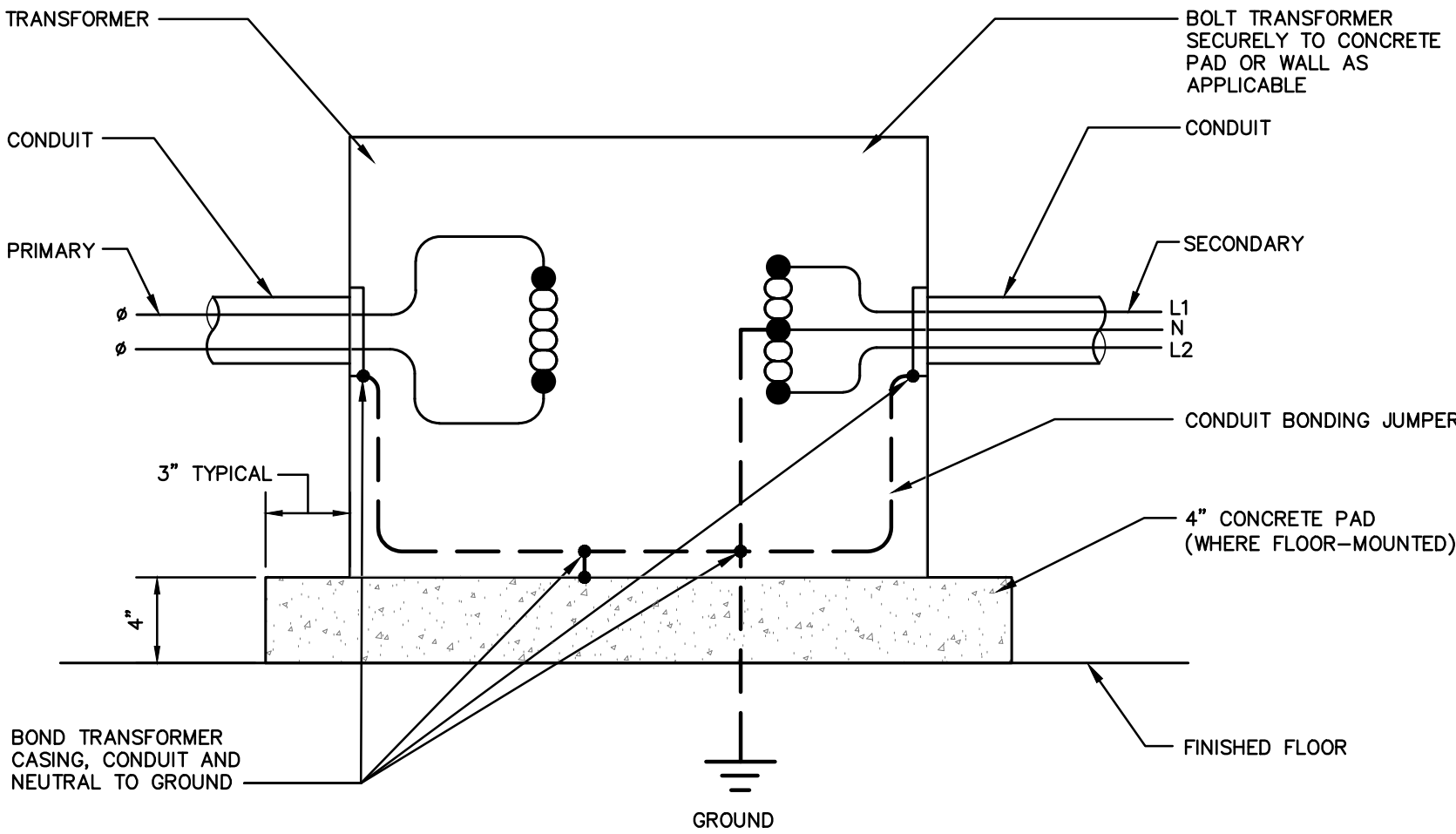
SIDE (SHOWING CANOPY)



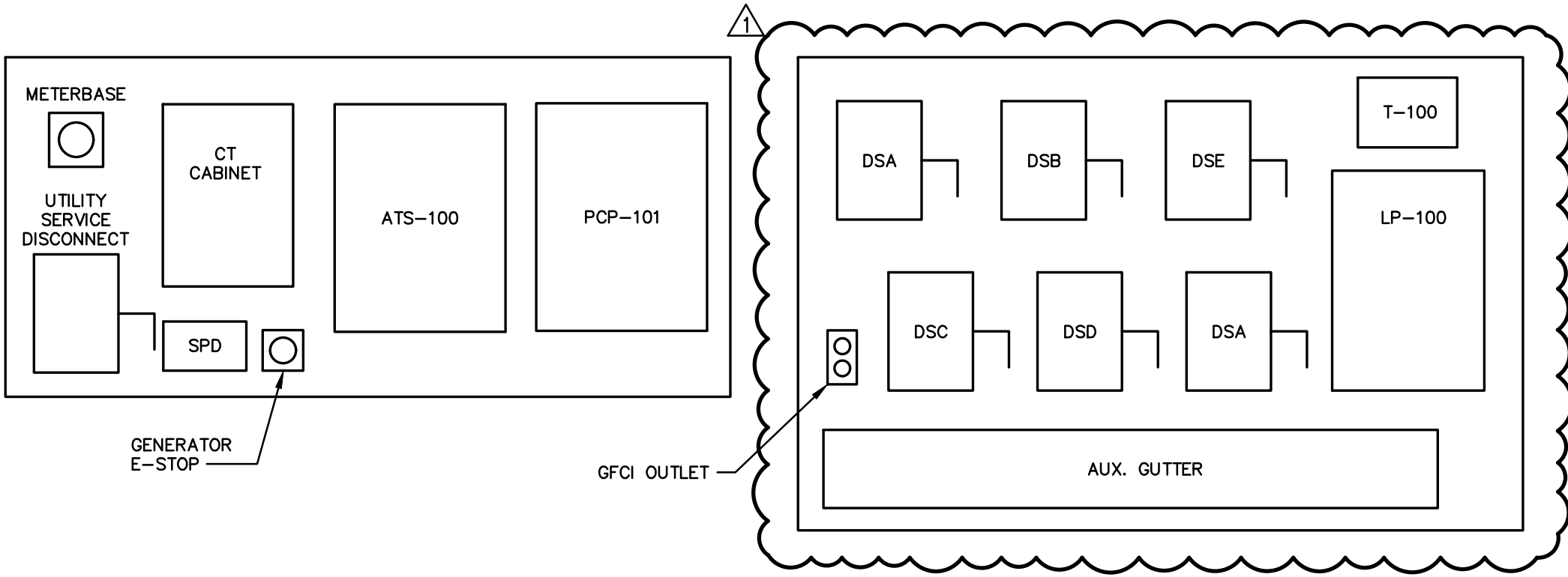
CANOPY FABRICATED FROM 1/8" SHEET ALUMINUM (WELD ALL SEAMS)

CANOPY ISO

EQUIPMENT SUPPORT DETAIL
NOT TO SCALE



DRY TYPE TRANSFORMER DETAIL (SINGLE PHASE)
NOT TO SCALE



ELECTRICAL RACK ELEVATION
NOT TO SCALE

SIGNED AND DATED:

THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED IN ACCORDANCE WITH THE STANDARD CERTIFICATION REQUIREMENTS FOUND IN NC ADMINISTRATIVE CODE 21-56.1103(E). THIS DIGITAL SIGNATURE HAS BEEN FOUND BY THE NC BOARD OF EXAMINERS FOR ENGINEERS AND SURVEYORS TO MEET THESE STANDARDS. PLEASE CONTACT THE SIGNER IF YOU NEED ASSISTANCE IN VALIDATING THE SIGNATURE.

NO.	DATE	BY	DESCRIPTION
1	9/11/25	NCH	ADDENDUM NO. 1

AS NOTED

OFFICE MANAGER M. CATHEY	DESIGNER J. WEBB
PROJECT MANAGER M. WARESAK	REVIEWER P. FISHER

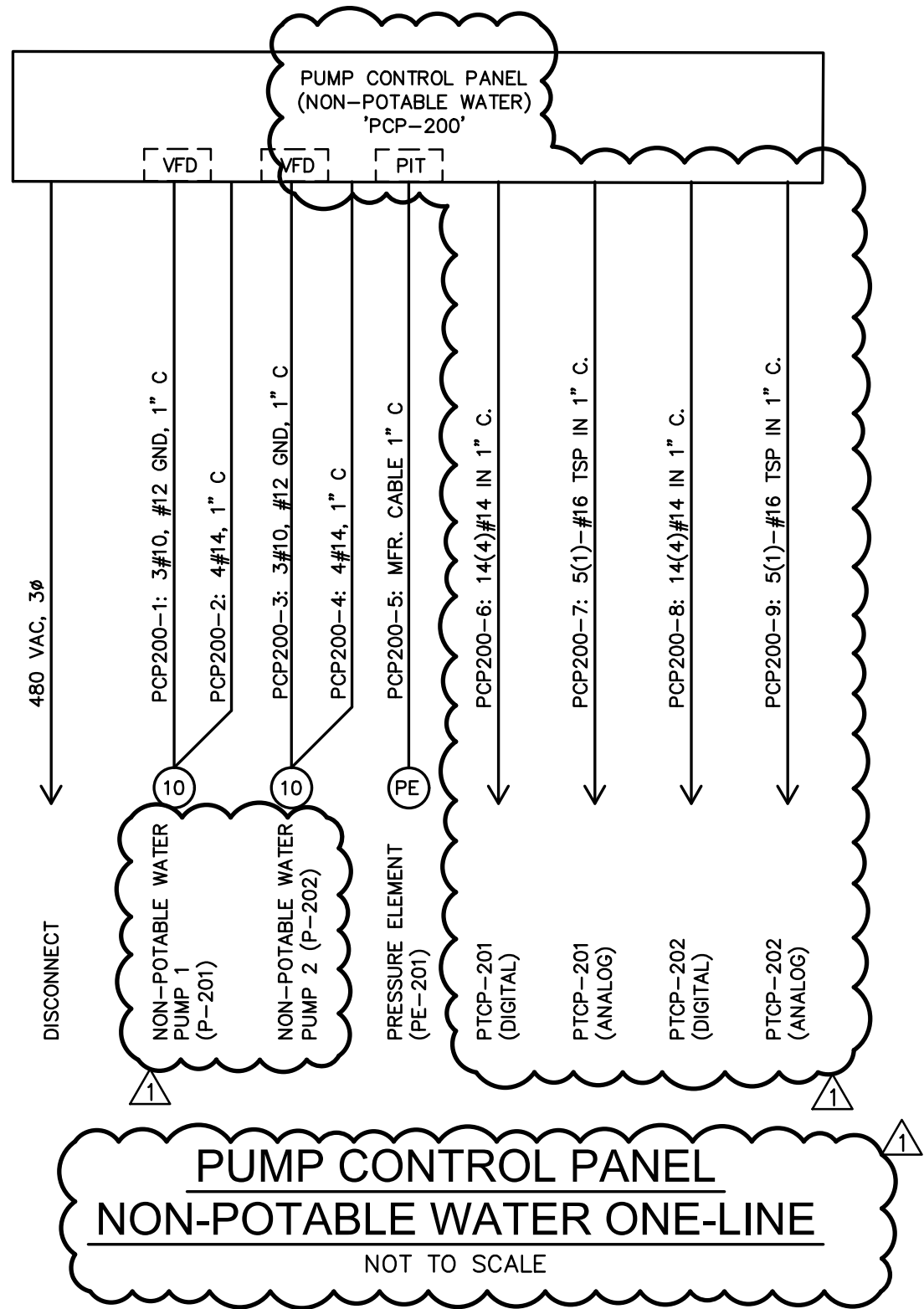
ELECTRICAL DETAILS

DATE SEPTEMBER 2025	PROJECT # 23.00328	FUNDING # N/A
------------------------	-----------------------	------------------

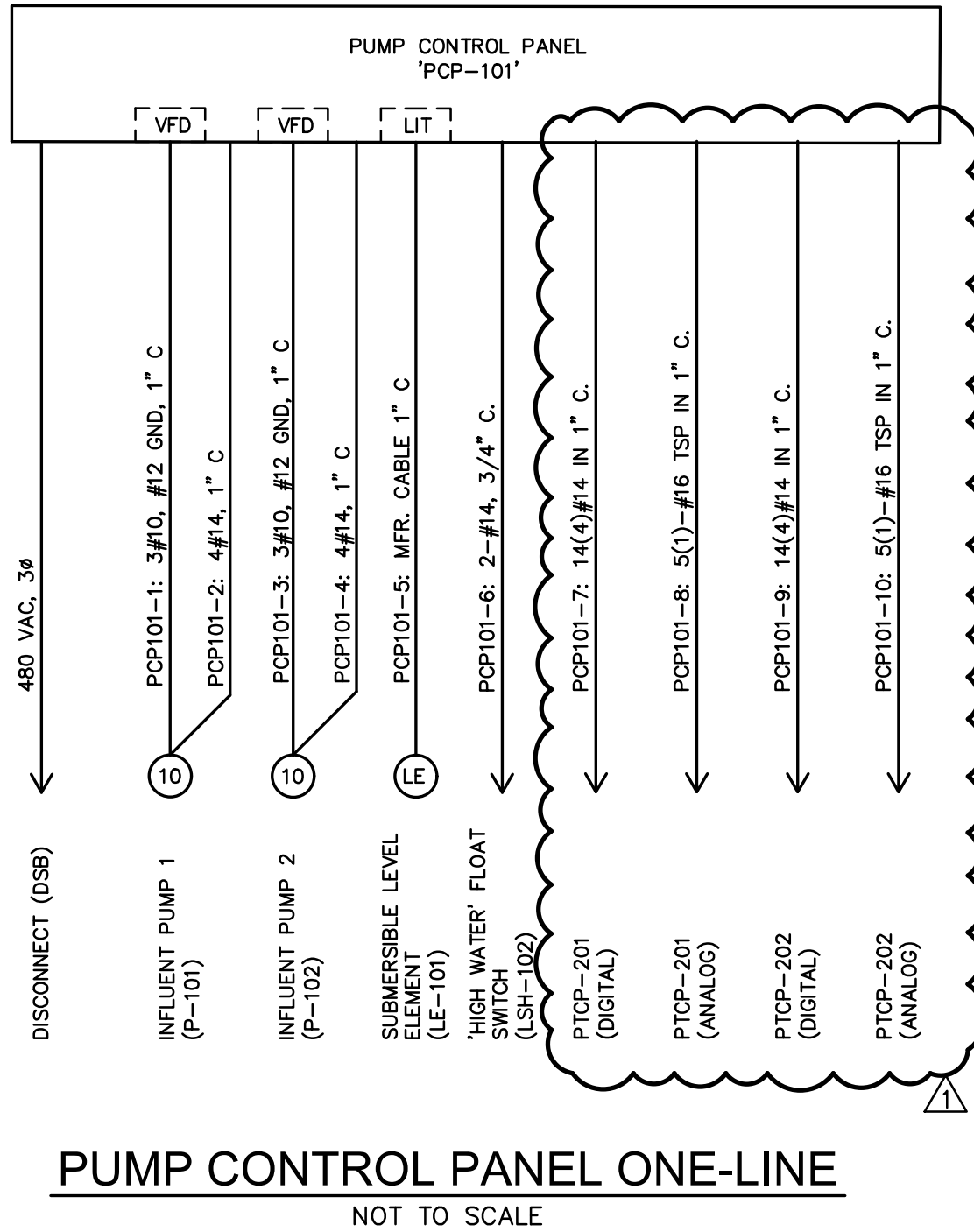
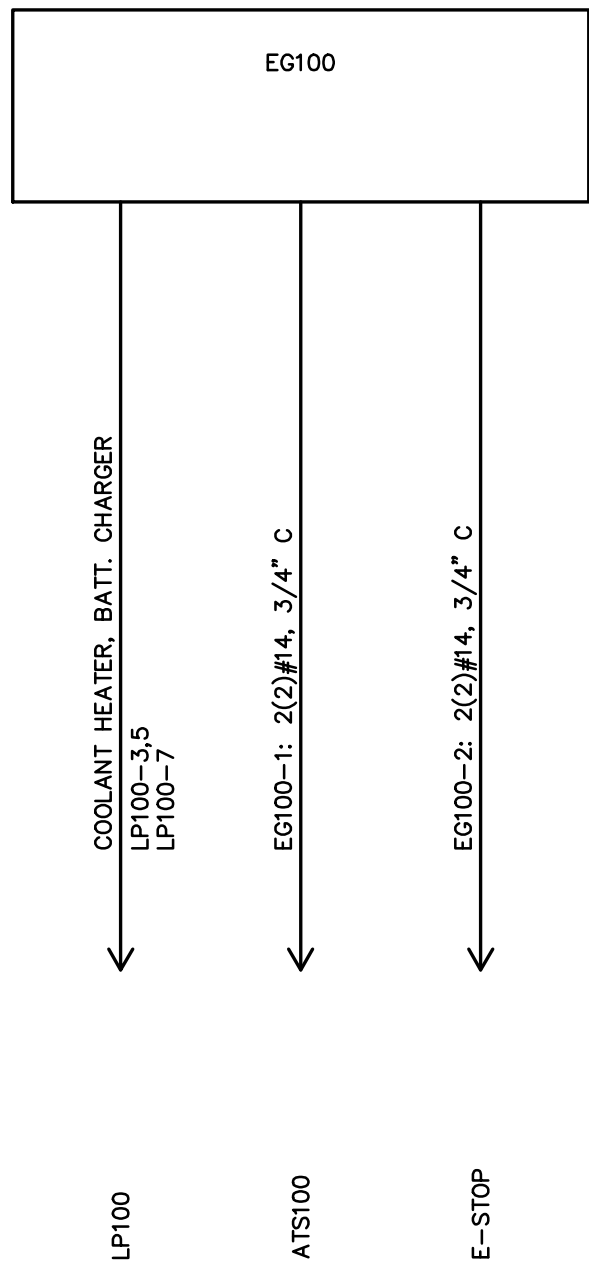
ISSUED FOR BID
-NOT RELEASED
FOR
CONSTRUCTION-

SHEET

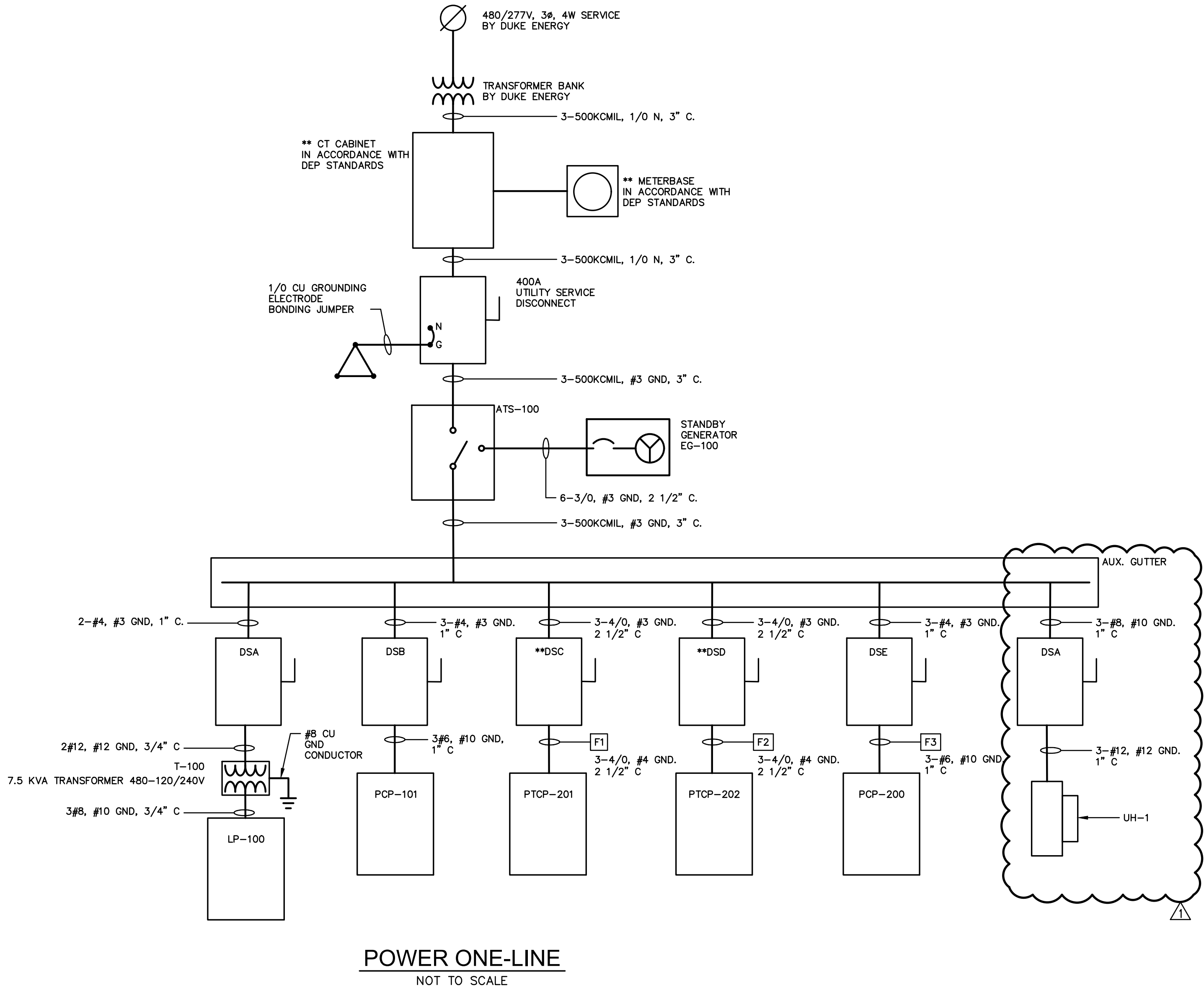
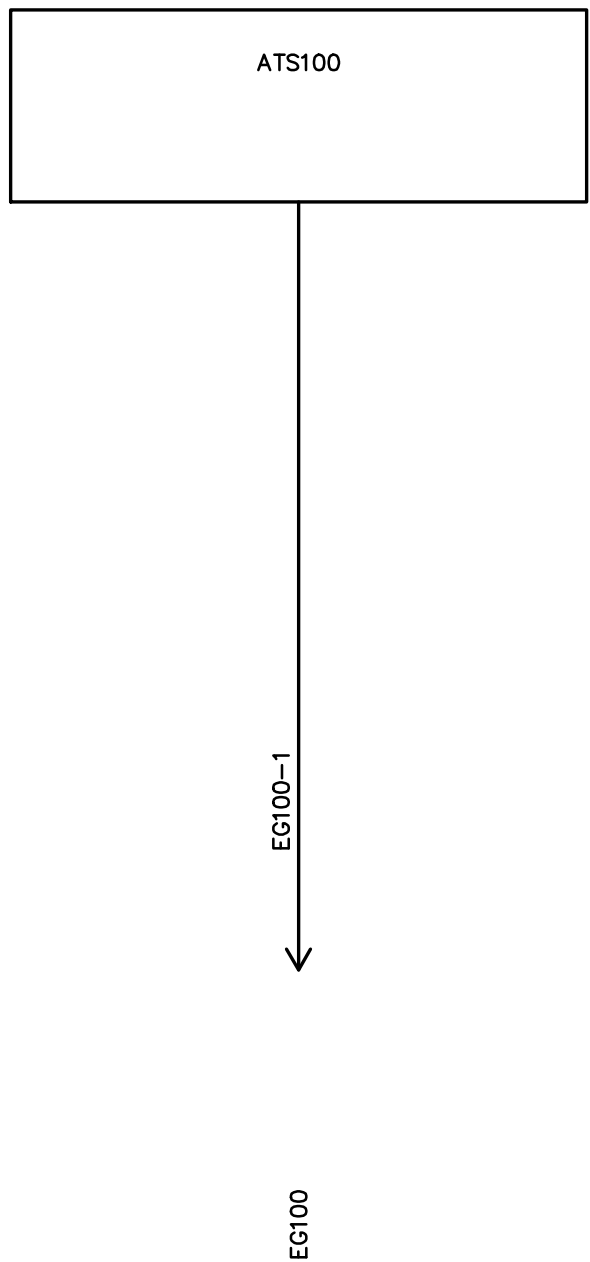
E-503



ENGINE-GENERATOR CONTROL ONE-LINE
NOT TO SCALE



ATS CONTROL ONE-LINE
NOT TO SCALE



NOTES:
** - FURNISHED BY OWNER, INSTALLED BY CONTRACTOR.

ISSUED FOR BID
-NOT RELEASED
FOR
CONSTRUCTION-

SHEET

E-601

Disconnect Switch Schedule (All Switches Heavy Duty)							
Desig	Minimum Ratings		Pole	Fuse	Non-Fuse	NEMA	Mounting
	Volt	Amp					
DSA	480V	20	3	X (20A)		4XSS(316)	Surface
DSB	480V	60	3	X (60A)		4XSS(316)	Surface
*DSC	480V	300	3	X (250A)		4XSS(316)	Surface
*DSD	480V	300	3	X (250A)		4XSS(316)	Surface
DSE	480V	60	3	X (60A)		4XSS(316)	Surface
* - FURNISHED BY OWNER, INSTALLED BY CONTRACTOR.							

GENERATOR SCHEDULE						
MARK	STANDBY RATING (Kw)	RATED PF	VOLTAGE	STARTING KVA AT 15% VOLTAGE DIP	OUTPUT CB TRIP RATING (A) WITH ADJUSTABLE TRIP	FUEL TYPE
EG100	180	0.8	480 VAC, 3Ø, 4W	190.5	400	DIESEL

TRANSFER SWITCH SCHEDULE						
MARK	SWITCH RATING (A)	SWITCHED POLES	VOLTAGE	CLOSING AND WITHSTAND RATING (RMS SYM. A)	ENCLOSURE TYPE (NEMA RATING)	TRANSITION TYPE
ATS100	400	3	277/480 VAC, 3Ø, 4W	22K	3R	OPEN, DELAYED

PANEL LP100		BUS AMP <u>100A</u>		MIN. A.I.C. <u>10,000</u>		MAIN BREAKER <u>40A</u>														
MOUNTING SURFACE _____		PHASE <u>1</u>		WIRE <u>3</u>		VOLTAGE <u>120/240</u>														
LOCATION <u>ELEC. RACK</u>		NEMA TYPE <u>4X</u>																		
CKT	DESCRIPTION	BREAKER		LOAD (KW)		WIRE		GND.		COND	COND		WIRE		LOAD (KW)		BREAKER		DESCRIPTION	CKT
		AMP	POLES	A	B	NO	SIZE	SIZE	SIZE		NO	A	B	POLES	AMP	SIZE	SIZE	SIZE		
1	AREA LIGHT	20	1	0.2		2	12	12	3/4		3/4	12	12	2	0.2		1	20	SERVICE RECEPTACLE	2
3	GEN. COOLANT HEATER	20	2	0.8	3	12	12	3/4							-	2	20	SPARE	4	6
5																				
7	GEN. BATTERY CHARGER	20	1		0.2	2		12	3/4		3/4	12	12	2		0.6	1	20	HEAT TRACE	8
9	GFCI OUTLET	20	1	0.2		2	12	12	3/4		3/4	12	12	2	0.6		1	20	IPS VAULT SUMP PUMP	10
11	SLUDGE PS SHED LIGHTS	20	1		0.1	2	12	12	3/4		3/4	12	12	2		0.2	1	20	SLUDGE PS SHED EXH. FAN	12
13	SLUDGE PS SHED RECEPT.	20	1	0.5		2	12	12	3/4						-		1	20	SPARE	14
15	SPARE	20	1		-										-		1	20	SPARE	16
17	SPACE - PFFB																		SPACE - PFFB	18
19	SPACE - PFFB																		SPACE - PFFB	20
SUB-TOTAL LOAD KW				1.7	1.1							SUB-TOTAL LOAD KW		0.8	0.8					
												TOTAL LOAD KW		2.5	1.9					

LUMINAIRE SCHEDULE										
TYPE	MANUFACTURER	CATALOG NUMBER	LAMPS		BALLASTS		INPUT WATTS	MT. HEIGHT	REMARKS	VOLTS
			NO.	TYPE	NO.	TYPE				
A	LUMARK GARDCO LITHONIA	PRV-PA1-A-740-U-T4W-BZ-PR-OA/RA1014 ECF-S-32L-530-NW-G2-AR-4-TLRPC-BK RSX1 LED P1 40K R4 MVOLT RPA PER7 DBLXD	1	LED	1	LED DRIVER	54 56 51	SSA POLE 20'	OUTDOOR AREA LIGHT FIXTURE WITH PHOTOCELL CONTROL, PROVIDE PHOTOCELL. 4000K, 7000 LUMENS MIN.	120
B	METALUX LITHONIA PHILIPS	4BCLED-LD4-40SL-F-UNV-L840-SD1-U WL4-40L-EZ1-LP840-N80-DIM10 FSW440L840-120-5DIM	1	LED		DRIVER	39	SURFACE	1'x4' WALL SURFACE MOUNTED LED LUMINAIRE 4000 LUMENS, 4000K, 80 CRI, DIFFUSE ACRYLIC LENS	120

Ductbank Conduit Schedule					
Conduit Tag No.	From	To	Conduit/Wiring Legend No.	Conduit Size	Remarks
F1	DSC	PTCP-201		2 1/2"	POWER
F2	DSD	PTCP-202		2 1/2"	POWER
F3	DSE	PCP-200		1"	POWER
F4	PCP-101	P-101	PCP101-1	1"	POWER
F5	PCP-101	P-101	PCP101-2	1"	CONTROL
F6	PCP-101	P-102	PCP101-3	1"	POWER
F7	PCP-101	P-102	PCP101-4	1"	CONTROL
F8	PCP-101	LE-101	PCP101-5	1"	POWER
F9	PCP-101	LSH-102	PCP101-6	1"	POWER
F10	LP-100	AREA LIGHT	LP100-1	3/4"	POWER
F11	LP-100	SERVICE RECEPTACLE	LP100-3,5	3/4"	POWER
F12	LP-100	GEN. COOLANT HEATER	LP100-4,6	3/4"	POWER
F13	LP-100	SUMP PUMP	LP100-7	3/4"	POWER
F14	LP-100	HEAT TRACE	LP100-8	3/4"	POWER
F15	LP-100	GFCI OUTLET	LP100-9	3/4"	POWER

ELECTRIC UNIT HEATER SCHEDULE										
EUH #	LOCATION	MOUNTING	MBH	CFM	AIR RISE	ELECTRICAL			MANUFACTURER/MODEL NO.	NOTES
						AMPS	KW	VOLTS/Ø		
EUH-1	PUMP BUILDING	CEILING	17	350	50°F	6	5	480/3	BERKO/SERIES HUHAA	1-2

- NOTES:
- EQUALS BY REZNOR, TRANE, AND MARKEL.
 - PROVIDE INTEGRAL THERMOSTAT.
 - PROVIDE INTEGRAL DISCONNECT.

EXHAUST FAN SCHEDULE										
EF #	LOCATION	CFM (MAX.)	E.S.P.	RPM	ELECTRICAL		SOUND LEVEL SONES	MAX BHP	MANUFACTURER/MODEL NO.	NOTES
					HP	VOLTS/PHASE				
EF-1	PUMP BUILDING	600	0.25	1550	1/10	115/1	6.6	0.12 BHP	GREENHECK/ SE1-426-D	

- NOTES:
- ACCEPTABLE MANUFACTURERS: COOK, AEROVENT.
 - PROVIDE PREMIUM EFFICIENCY MOTOR AND STARTER/DISCONNECT WITH LOCKOUT DEVICE. REFER TO ELECTRICAL SHEETS FOR MOTOR STARTER REQUIREMENTS AND WIRING DIAGRAMS.
 - PROVIDE GRAVITY BACKDRAFT DAMPER, WALL COLLAR, AND MOTOR SIDE FAN GUARD. SIZE WALL OPENING PER WALL COLLAR DIMENSIONS.

LOUVER SCHEDULE									
L #	LOCATION	DIMINSIONS (IN.)			PERFORMANCE			MANUFACTURER/ MODEL NO.	NOTES
		WIDTH	HEIGHT	DEPTH	(CFM) RATING FLOW	(IN W.G.) Δ P	WATER PENETRATION*		
L-1	PUMP BUILDING	18	24	6	600	0.08	<0.01	NAILOR/ SERIES 1606D	

- NOTES:
- ALTERNATIVE MANUFACTURERS: CONSTRUCTION SPECIALTIES, ARROW, DOWCO, RUSKIN.
 - PROVIDE ALL LOUVERS WITH 1/4" GALVANIZED OR ALUMINUM BIRD SCREEN.
 - SUPPLY CUSTOM COLOR SELECTED BY OWNER.
 - LOUVER SHALL INCLUDE POWER OPEN, SPRING CLOSED 120V/1Ø/60HZ MOTOR.

BID FORM

Wastewater Treatment Plant Upgrade

Town of Hot Springs, North Carolina

TABLE OF ARTICLES

<u>Article</u>	<u>Article No.</u>
Bid Recipient	1
Bidder's Acknowledgements	2
Bidder's Representations	3
Further Representations	4
Basis of Bid	5
Time of Completion	6
Attachments to this Bid	7
Defined Terms	8
Bid Submittal	9

ARTICLE 1 – BID RECIPIENT

This Bid is submitted to:

Town of Hot Springs
43 N. Andrews Ave
Hot Springs, NC 28743

The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an Agreement with Owner in the form included in the Bidding Documents to perform all Work as specified or indicated in the Bidding Documents for the prices and within the times indicated in this Bid and in accordance with the other terms and conditions of the Bidding Documents.

ARTICLE 2 – BIDDER’S ACKNOWLEDGEMENTS

- 2.01 Bidder accepts all of the terms and conditions of the Instructions to Bidders, including without limitation those dealing with the disposition of Bid security. This Bid will remain subject to acceptance for **60 days** after the date of the Bid opening, or for such longer period of time that Bidder may agree to in writing upon request of Owner.

ARTICLE 3 – BIDDER'S REPRESENTATIONS

- 3.01 In submitting this Bid, Bidder represents that:

- A. Bidder has examined and carefully studied the Bidding Documents, the other related data identified in the Bidding Documents, and the following Addenda, receipt of which is hereby acknowledged.

<u>Addendum No.</u>	<u>Addendum Date</u>
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

- B. Bidder has visited the Project Site and has become familiar with and is satisfied as to the general, local and Site conditions that may affect cost, progress, and performance of the Work.
- C. Bidder is familiar with and is satisfied as to all federal, state and local Laws and Regulations that may affect cost, progress and performance of the Work.
- D. Bidder has carefully studied all: (1) reports of explorations and tests of subsurface conditions at or contiguous to the Site and all drawings of physical conditions in or relating to existing surface or subsurface structures, including Underground Facilities, at or contiguous to the Site which have been included as a part of the Contract Documents.
- E. Bidder has obtained and carefully studied (or accepts the consequences for not doing so) all additional or supplementary examinations, investigations, explorations, tests, studies and data concerning conditions (surface, subsurface and Underground Facilities) at or contiguous to the Site which may affect cost, progress, or performance of the Work or

which relate to any aspect of the means, methods, techniques, sequences, and procedures of construction to be employed by Bidder, including applying the specific means, methods, techniques, sequences, and procedures of construction expressly required by the Bidding Documents to be employed by Bidder, and safety precautions and programs incident thereto.

- F. Bidder does not consider that any further examinations, investigations, explorations, tests, studies, or data are necessary for the determination of this Bid for performance of the Work at the price(s) bid and within the times and in accordance with the other terms and conditions of the Bidding Documents.
- G. Bidder is aware of the general nature of work to be performed by Owner and others at the Site that relates to the Work as indicated in the Bidding Documents.
- H. Bidder has correlated the information known to Bidder, information and observations obtained from visits to the Site, reports and drawings identified in the Bidding Documents, and all additional examinations, investigations, explorations, tests, studies, and data with the Bidding Documents.
- I. Bidder has given Engineer written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder has discovered in the Bidding Documents, and the written resolution thereof by Engineer is acceptable to Bidder or, if no written response was made by Engineer, that Bidder has resolved the issue to its satisfaction prior to the submittal of its Bid.
- J. The Bidding Documents are sufficient to indicate and convey understanding of all terms and conditions for the performance of the Work for which this Bid is submitted.
- K. Bidder will submit written evidence of its authority to do business in the state where the Project is located not later than the date of its execution of the Agreement.
- L. Bidder has not relied upon any information provided by the Engineer except information which is part of the Bidding Documents and in writing in the form of a formal addendum.
- M. The submission of a Bid constitutes an incontrovertible representation by Bidder that Bidder has complied with every requirement of the Bid Documents and the Instructions to Bidders, and that without exception the Bid is premised upon performing and furnishing the Work required by the Bidding Documents and applying any specific means, methods, techniques, sequences, and procedures of construction that may be shown or indicated or expressly required by the Bidding Documents.

ARTICLE 4 – FURTHER REPRESENTATIONS

4.01 Bidder further represents that:

- A. This Bid is genuine and not made in the interest of or on behalf of any undisclosed individual or entity and is not submitted in conformity with any agreement or rules of any group, association, organization or corporation;
- B. Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid;
- C. Bidder has not solicited or induced any individual or entity to refrain from bidding; and

- D. Bidder has not sought by collusion to obtain for itself any advantage over any other Bidder or over Owner.

ARTICLE 5 – BASIS OF BID

Bidders are required to fill out the Lump Sum Base Bid as follows. Bidder will complete the Work in accordance with the Contract Documents for *one* of the following lump sum prices:

Lump Sum Base Bid

The base bid price shall include all costs for furnishing materials and labor complete, each item including all sales tax, labor cost, material cost, and cost of miscellaneous items.

LUMP SUM BID	Cost
	\$
	(numbers)
dollars	
(Words)	

ARTICLE 6 – TIME OF COMPLETION

- 6.01 Bidder agrees that the Work will be substantially complete within **120 calendar days** after the date when the Contract Times commence to run as provided in the Modified General Conditions, and will be completed and ready for final payment in accordance with the Modified General Conditions within **150 calendar days** after the date when the Contract Times commence to run.
- 6.02 Bidder accepts the provisions of the Agreement as to liquidated damages in the event of failure to complete the Work within the Contract Times and Milestone time periods.

ARTICLE 7 – ATTACHMENTS TO THIS BID

- 7.01 The following documents are attached to and made a condition of this Bid:
- A. Required Bid security in the form of _____
 - B. List of Proposed Subcontractors
 - C. List of Proposed Suppliers
 - D. Bidder Qualifications and Project References
 - E. DWI MBE/WBE (DBE) Compliance Supplement
 - F. Affidavit of Non-Collusion, E-Verify, Debarment

ARTICLE 8 – BID SUBMITTAL

8.01 This Bid submitted by:

If Bidder is:

An Individual

Name (typed or printed): _____

By: _____ (SEAL)
(Individual's signature)

Doing business as: _____

A Partnership

Partnership Name: _____ (SEAL)

By: _____
(Signature of general partner -- attach evidence of authority to sign)

Name (typed or printed): _____

A Corporation

Corporation Name: _____ (SEAL)

State of Incorporation: _____

Type (General Business, Professional, Service, Limited Liability): _____

By: _____
(Signature -- attach evidence of authority to sign)

Name (typed or printed): _____

Title: _____ (CORPORATE SEAL)

Attest _____

Date of Authorization to do business in North Carolina is ____/____/____.

A Joint Venture

Name of Joint Venture: _____

First Joint Venturer Name: _____ (SEAL)

By: _____
(Signature of first joint venture partner -- attach evidence of authority to sign)

Name (typed or printed): _____

Title: _____

Second Joint Venturer Name: _____ (SEAL)

By: _____
(Signature of second joint venture partner -- attach evidence of authority to sign)

Name (typed or printed): _____

Title: _____

(Each joint venturer must sign. The manner of signing for each individual, partnership, and corporation that is a party to the joint venture should be in the manner indicated above.)

FOR ALL BIDDERS:

Address

Bidder's Business Address _____

Phone No. (____) ____ - ____ Fax No. (____) ____ - ____

SUBMITTED on _____, 20____.

State Contractor License No. _____.