

ADDENDUM NO. 1

DATE: **March 30, 2026**
OWNER: **Town of Tignall**
PROJECT: **Wastewater Treatment Plant Improvements**
C & S PROJECT NO.: **T7040.003**

ENGINEER: **Martin C. Boyd, P.E.**
CARTER & SLOOPE, INC.
1031 Stonebridge Parkway
Watkinsville, Georgia 30677
Telephone: 706-769-4119
Email: mboyd@cartersloope.com

BID DATE: April 23, 2026

BID OPENING: 2:00 PM Local Time

TO ALL BIDDERS:

DOWNLOADING THIS ADDENDUM THROUGH QUESTCDN IS YOUR ACKNOWLEDGMENT OF RECEIPT. NO OTHER ACTION IS NECESSARY TO ACKNOWLEDGE RECEIPT. THIS ADDENDUM FORMS A PART OF THE BID DOCUMENTS WHICH ARE HEREBY MODIFIED IN THE FOLLOWING RESPECTS:

I. Questions / Answers

1. Question: The Cash Allowance for Spare Parts described in Section 01020 is \$25,000 but the online bid worksheet shows it as \$10,000. What is the correct amount?

Answer: The correct amount for the Spare Parts Cash Allowance is \$25,000 and the online Bid Worksheet has been updated.

2. Question: What is the landfill the City has contracted with to accept the dewatered biosolids?

Answer: The Town is not under contract with any landfill. The Contractor will need to locate a landfill that will accept “high moisture content waste” and negotiate a disposal fee. The Specifications are modified by this addendum to reflect this change. We know that Waste Management’s landfill in Homer, GA and Richmond County Municipal Solid Waste Landfill has historically accepted “high moisture content waste”, but the Town of Tignall does not have any agreement or contract with any facility for solid waste disposal. These landfills may be limited in the amount of high moisture content waste they can take daily, which could affect the Contractor’s dewatering and disposal operations.

3. Question: Is there any analysis available for land fill approval...TCLP?

Answer: A TCLP analysis was completed on 12/10/2024 and the results are included

in this addendum.

4. **Question:** Has the landfill already approved the material for disposal?
Answer: No, the Contractor will need to obtain approval for disposal of the high moisture content waste.
5. **Question:** Is there any other water source besides the $\frac{3}{4}$ residential?
Answer: There is a fire hydrant located on Jane Hill Rd. just outside the WWTP fence. The Contractor may use that fire hydrant for water, but they must furnish and install a hydrant meter. The Town does not have a hydrant meter. The location of the hydrant is shown on revised Sheet 5 included in this addendum.
6. **Question:** Dredging the pond will not remove all the biosolids, is 8" – 12" remaining acceptable?
Answer: See revised language in Section 02325 included below in this addendum.
7. **Question:** What is the estimated start date for the project?
Answer: We anticipate issuing a Notice to Proceed on or before June 1, 2026
8. **Question:** How can we schedule a site visit?
Answer: The gate at the treatment facility is unlocked daily from 8 am to 5 pm so the Bidder may visit the site at their convenience. As a courtesy, please contact Clyde Davis at (706) 990-5098, and leave him a message that you are visiting the treatment plant. Please ensure that the gate is closed when you leave and you may leave the gate unlocked unless instructed otherwise by Mr. Davis.

II. CONTRACT DOCUMENTS AND SPECIFICATIONS

1. Section 00200 – Instructions to Bidders

- A. Add the following paragraph to this section:

"ARTICLE 26—SALES AND USE TAXES

26.01 The Owner intends to request a reimbursement from the Georgia Department of Revenue on sales and use taxes paid on equipment purchased for the primary purpose of reducing or eliminating water pollution. The Contractor will include in his lump sum price all costs to assist the Owner and Engineer with completing and submitting Forms ST-12 and ST-12(a) and other forms as required by the Georgia Department of Revenue."

2. Section 00410 – Basis of Bid

- A. The online Bid Form will be updated on QuestCDN to address allowances. Also, the Major Materials and Mechanical Equipment Schedule has been updated and the revised Section 00410A-1 is included here-in.

3. Section 01020 - Allowances

- A. Refer to Paragraph 2.A. Add the following paragraph:

"2. Testing – The Contractor shall allow the sum as listed on the Bid Form for Cash Allowance for concrete testing and soil testing. This allowance may be utilized by the Owner and/or Engineer to pay for any testing required in accordance with Section 01410. No money from this allowance shall be used to pay for any re-testing of failed tests. The Contractor shall provide coordination and labor to assist the testing company

with collection of testing samples on the jobsite. To receive authorization to use Allowance money to pay for testing services, the Contractor must submit invoices from the approved testing agency with the monthly pay request for review and approval.”

4. Section 01025 – Measurement and Payment

- A. Refer to Paragraph 3.1.A. Add the following paragraph after the existing second paragraph:

“The Owner intends to request a reimbursement from the Georgia Department of Revenue on sales and use taxes paid on equipment purchased for the primary purpose of reducing or eliminating water pollution. The Contractor will include in his lump sum price all costs to assist the Owner and Engineer with completing Forms ST-12 and ST-12(a) including, but not limited to, obtaining the required information from subcontractors and suppliers and submitting completed forms to the Engineer.”

- B. Refer to Paragraph 3.1.C. Replace this entire paragraph with the following revised paragraph:

“C. Item 3 – Unit Price Items

1. Mechanical or Hydraulic Dredging

Measurement: Quantities for sediment removal, dewatering, and disposal shall be expressed in DRY TON. The Engineer has furnished an estimate on the basis as described in the Contract Drawings. The Contractor must furnish the tickets from the landfill that shows the gross weight (loaded) and tare weight (empty) of the trucks hauling the material to determine the exact tonnage disposed using the calibrated scales at the landfill.

Payment: Mechanical or Hydraulic Dredging, Dewatering, and Disposal shall be paid for the unit price as shown on the Bid Form for each DRY TON of sediment dredged, dewatered, and legally disposed of off-site. The Contractor shall include in the unit price the cost for furnishing all materials and equipment and performing all labor necessary to dredge accumulated sediment from the ponds as shown on the Contract Drawings, all costs associated with dewatering the sediment onsite, and all costs associated with the complete removal and off-site disposal of the dredged material from the dewatering site, including transport services of all dewatered sediment to a permanent disposal site selected by the Contractor and paying all tipping fees. This shall include mechanical or hydraulic dredging, dewater devices, expendables, truck and/or container transportation, fuel, hauling of the material to a permanent disposal site that is located and selected by the Contractor, tipping fees to the landfill for “high moisture content waste”, permanent grassing and stabilization and any BMPS’s that may be required at the treatment plant site for dredging operations include, but not limited to, all other appurtenances necessary for permanent stabilization of disturbed areas. The Contractor shall be responsible for locating and/or providing an off-site disposal location that can legally receive the dredged materials from the WWTP, including all hauling costs and landfill tipping fees that may be required.”

CLARIFICATION: In Section 02325, the specifications require that the material removed from the existing pond meet a minimum of 15% solids prior to disposal at the landfill to reduce landfill tipping fees. Material meeting the minimum of 15% solids is

called “DRY TON”, but may still be considered “high moisture content waste” by the landfill. The Contractor will be responsible for locating a landfill that will accept this material, hauling it to the landfill and paying all tipping fees for disposal.

- C. Refer to Paragraph 3.1.D. Add the following to this paragraph.
 - “b. Testing – The Contractor shall allow the sum as listed in the Bid Form for Cash Allowance for concrete testing and soil testing. This allowance may be utilized by the Owner and/or Engineer to pay for any testing required in accordance with Section 01410. No money from this allowance shall be used to pay for any re-testing of failed tests. The Contractor shall provide coordination and labor to assist the testing company with collection of testing samples on the jobsite. To receive authorization to use Allowance money to pay for testing services, the Contractor must submit invoices from the approved testing agency with the monthly pay request for review and approval.”
 - D. Refer to Paragraph 3.1. Add the following the paragraph to this section.
 - “E. Additions/Deductions
 - 1. Modular Insulated Pond Cover (Section 11234)
 - The Contractor shall list the deduct amount for **not** furnishing all equipment and materials, and **not** performing all labor necessary to install the Modular Insulated Pond Cover as shown on the Drawings and as specified in Section 11234 of the Contract Documents.”
- 5. Section 02325 – Dredging**
- A. Replace this entire section with the enclosed revised Section 02325.

III. CONTRACT DRAWINGS

- 1. Revised Sheets**
 - A. Please remove and replace the following sheets with the attached revised sheets: 2, 4, 7, 8, 10, 12, 13, 14, 15, 16, 17, 18, 23, 24
- 2. Sheets E.1 – E.8**
 - A. Insert the attached electrical sheets into the plans.

END OF ADDENDUM NO. 1

**SECTION 02325
DREDGING
INDEX**

PART 1. GENERAL 2
 1.1 SCOPE 2
 1.2 SUBMITTALS 3
 1.3 MATERIAL TO BE REMOVED..... 3

PART 2. PRODUCTS (Not Used)..... 4

PART 3. EXECUTION..... 4
 3.1 GENERAL 4
 3.2 CONDUCT OF DREDGING, DEWATERING AND DISPOSAL WORK 4

**SECTION 02325
DREDGING**

PART 1. GENERAL

1.1 SCOPE

- A. The Contractor shall be responsible for all labor, supervision, equipment, materials, fuel, and all other appurtenances required for mechanically and/or hydraulically dredging, dewatering, transportation, delivery, processing, and where required at the project site, final placement or disposal of all dredged material. During all project activities, the Contractor shall be responsible for Best Management Practices (BMPs) to minimize the turbidity of any effluent discharged from sediment removal and dewatering, and to minimize erosion of disturbed land areas. All work shall be completed in accordance with applicable Federal, State, and local rules and regulations.
- B. No dredged material shall be stockpiled in wetlands or upland areas or outside of the designated disposal area as shown on the plans. All dredged material removed from the pond is to be transported directly to the dewatering area, and from the dewatering area directly to the disposal site. Long-term stockpiling dewatered material onsite is prohibited.
- C. The Contractor shall determine the means and methods for sludge removal and dewatering. Acceptable dredging methods include, but are not limited to, hydraulic and mechanical methods. An area on the Drawings has been designated for dewatering operations, and the Contractor may utilize this area as needed, but it should be returned to its existing conditions at the completion of the project including restoring any disturbed areas and final grassing and stabilization. Any water removed during the dredging operation or removed during the dewatering operation should be returned back to the head of the plant or to another treatment pond onsite at a rate not to exceed the plant's permitted flow of 0.078 mgd including normal flow into the plant from other sources. The Contractor shall be responsible for removing and hauling all dewatered sludge from the project site to a sanitary landfill and shall pay for the landfill disposal cost. The Owner recognizes that the dewatered sludge will be considered "high moisture content waste" as defined in O.C.G.A. 391-3-4-.01 Definitions. The Owner will sample the sludge and run a paint filter test in accordance with EPA SW-846 Method 9095B – Paint Filter Liquids Test on the material before the Contractor hauls it to the landfill. If the sampled sludge does not pass the paint filter test, additional dewatering by the Contractor will be required at their expense. While there is no minimum percent solids for passing the paint filter test, the Owner will require that the dewatered sludge meet a minimum of 15% solids prior to disposal at the landfill to reduce landfill tipping fees. The Contractor shall provide all the means, methods and any equipment, polymers, etc. to meet the minimum 15% solids, which will be called "DRY TONS" for bidding purposes (See Section 01025), but the landfills will still

consider this “high moisture content waste”. See the Drawings for additional information.

- D. The Contractor shall become familiar with the location of the proposed work, the actual field conditions and requirements of the work, including risks, means of access, character of the soil and subsoil, and restrictions and regulations. Failure to do so will not relieve the Contractor of his/her obligations to furnish all labor necessary to carry out the Work described in the Specifications. The submission of a Bid shall constitute and imply full knowledge of such conditions and regulations and acceptance of the risks therein contained.

1.2 SUBMITTALS

- A. Contractor shall be responsible for submitting a Dredging and Dewatering Operation Plan listing sequence of dredging operation; pipe location; proposed locations of pumps (if any), location and type of dewatering equipment and anticipated performance characteristics, mobilization and demobilization sequence and schedule, final disposal location; and all other items as listed in these Specifications.
- B. Contractor shall submit dredge, pipeline, dewatering equipment, and auxiliary pump station (if any) specifications and operating parameters such as proposed pumping rates (if any), pipeline velocities, pipeline strength and maximum allowable pipeline pressure specifications, and noise levels for review by Owner or Owner’s Representative prior to Mobilization.

1.3 MATERIAL TO BE REMOVED

- A. This project does not involve dredging beyond the original contours of the pond or expanding the pond beyond their original shoreline configuration. It is the intent that sediment and biological sludge within the existing pond be dredged down to original contours (hard bottom) or other overlying hard layer including compacted sediment. Hard bottom shall be defined as the original grades or bottom of the unlined pond. It is acceptable to leave up to 8-inches of material in the bottom of the pond if dredging operations prevent all the material from being removed as long as it does not interfere or conflict with the installation and operation of the proposed aerators to be installed per Section 11231. The Contractor should coordinate with the aeration manufacture before leaving up to 8-inches of material in the pond bottom.
- B. The accumulated material to be removed is composed primarily of sediment in organic solids and biological sludge from wastewater treatment process. The Contractor shall examine the site of the work and verify the character of the materials. Any discrepancies discovered with sludge characterization should be immediately brought to the attention of the Engineer.
- C. The Contractor shall provide a survey showing top of sludge prior to the start of dredging to verify and determine the existing sediment quantity in the pond. The

Contractor shall verify all existing conditions and notify Engineer of any differences, including sediment quantity and characteristics, prior to start of dredging. A post-dredge survey shall be conducted by the Contractor to verify the extents of sludge removal.

- D. Data supplied to Contractors is presented for informational purposes only. The Owner and/or Owner's Representative, the Engineer, do not guarantee the accuracy or validity of the data, nor do they assume any responsibility for the Contractor's interpretation of the data.

PART 2. PRODUCTS (Not Used)

PART 3. EXECUTION

3.1 GENERAL

- A. Contractor shall keep records of work performed including volume pumped, area dredged, depth of dredging, character of material dredged, hours of operation and down time, and weather conditions. Contractor shall ensure that gauges, targets, ranges, and other markers are in place and usable for the intended purpose. Furnish, at the request of the Engineer, boats, boatmen, laborers, and materials necessary for observation, supervising, and surveying the work. When required, provide transportation for the Engineer to and from the dredge and adjacent points on shore.

3.2 CONDUCT OF DREDGING, DEWATERING AND DISPOSAL WORK

- A. Furnish, set, and maintain ranges, buoys, and markers needed to define the work and to facilitate observation. Establish and maintain gauges in locations observable from each part of the work so that the depth may be determined.
- B. Maintain the dredge, pipelines, and associated equipment to meet the requirements of the work. Promptly repair leaks or breaks along any pipelines. Remove dredged material placed due to leaks and breaks and notify the Engineer if any biological sludge leaks onto the ground or in any other surface water.
- C. The Contractor shall remove accumulated sediment and sludge as described herein by mechanical or hydraulic methods. If hydraulic methods are used, the Contractor shall determine the pumping rates.
- D. The discharge of sediment or dredged material back into State Waters is prohibited.
- E. All dewatered materials shall be taken off-site for permanent disposal. The Contractor is responsible for locating, hauling, and disposing of the material at a permitted disposal site.

- F. The completion of work shall ensure the stability of any pipes and structures within the pond, insofar as they may be jeopardized by dredging operations. Contractor shall repair any and all damage resulting from dredging operations.
- G. At the completion of all dredging work, the Contractor shall remove all temporary components, piping, dredge, dewatering equipment and other support equipment, and miscellaneous materials from the site.
- H. At the completion of all dewatering and excavation work, all disturbed areas shall be smoothed and restored to pre-dredging conditions. Stabilization shall be achieved with re-establishment of permanent grassing.

END OF SECTION



Analytical Laboratories, Inc.
 1005 Emmett St., Suite D
 Augusta, Ga. 30904
 Phone: 706.733.0848
 email: csralabs@bellsouth.net

Analysis Report

Report # 62462
 Report Date: 12/10/2024
 Samples Received: 11/20/2024

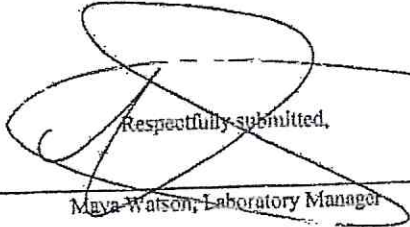
Client: City of Tignall
 Address: P.O. Box 218
 Tignall, GA

Project: Influent to Pond
 Location:
 Sample Type: Grab/SL

Analysis (Method): TCLP Metals (Method SW1311/6010D/SW3010A), TCLP Mercury (Method SW1311/7470A),
 TCLP VOC (Method SW1311/8260D/SW5030B), TCLP SVOC (Method SW1311/8270E/SW3510C), TCLP Pesticides
 (Method SW1311/8081B/SW3510C), TCLP Herbicides (Method SW1311/8151A/SW3510C), Polychlorinated
 Biphenyls (PCBs) (Method SW846 8082A)

CSRA ID #	Sample Description/Location	Date Sampled	Time 0740	Analysis	Result	Reporting Limit	Units	Date Analyzed	Time	Analyst
24-10336	Influent to Pond	11/19/24	0740	TCLP Metals						
				Arsenic	BRL	0.25	mg/L	11/26/24	2216	DS ²
				Barium	BRL	0.50	mg/L	11/26/24	2216	DS ²
				Cadmium	BRL	0.025	mg/L	11/26/24	2216	DS ²
				Chromium	BRL	0.050	mg/L	11/26/24	2216	DS ²
				Lead	BRL	0.050	mg/L	11/26/24	2216	DS ²
				Selenium	BRL	0.10	mg/L	11/26/24	2216	DS ²
				Silver	BRL	0.025	mg/L	11/26/24	2216	DS ²
				Mercury	BRL	0.0050	mg/L	11/26/24	2130	GR ²
TCLP Semivolatile Organic Compounds										
				2-Methylphenol	BRL	0.10	mg/L	11/29/24	1752	RS ²
				3&4 Methylphenol	BRL	0.10	mg/L	11/29/24	1752	RS ²
				1,4-Dichlorobenzene	BRL	0.10	mg/L	11/29/24	1752	RS ²
				2,4,5-Trichlorophenol	BRL	0.25	mg/L	11/29/24	1752	RS ²
				2,4,6-Trichlorophenol	BRL	0.10	mg/L	11/29/24	1752	RS ²
				2,4-Dinitrotoluene	BRL	0.10	mg/L	11/29/24	1752	RS ²
				Hexachlorobenzene	BRL	0.10	mg/L	11/29/24	1752	RS ²
				Hexachlorobutadiene	BRL	0.10	mg/L	11/29/24	1752	RS ²
				Hexachloroethane	BRL	0.10	mg/L	11/29/24	1752	RS ²
				Nitrobenzene	BRL	0.10	mg/L	11/29/24	1752	RS ²
				Pentachlorophenol	BRL	0.25	mg/L	11/29/24	1752	RS ²
				Pyridine	BRL	0.10	mg/L	11/29/24	1752	RS ²

CSRA ID #	Sample Description/Location	Date Sampled	Time	Analysis	Result	Reporting Limit	Units	Date Analyzed	Time	Analyst
24-10336	Influent to Pond	11/19/24	0740	Polychlorinated Biphenyls						
				PCB 1016	BRL	730	ug/Kg	12/2/24	1614	UH ²
				PCB 1221	BRL	730	ug/Kg	12/2/24	1614	UH ²
				PCB 1232	BRL	730	ug/Kg	12/2/24	1614	UH ²
				PCB 1242	BRL	730	ug/Kg	12/2/24	1614	UH ²
				PCB 1248	BRL	730	ug/Kg	12/2/24	1614	UH ²
				PCB 1254	BRL	730	ug/Kg	12/2/24	1614	UH ²
				PCB 1260	BRL	730	ug/Kg	12/2/24	1614	UH ²
				PCB 1262	BRL	730	ug/Kg	12/2/24	1614	UH ²
				PCB 1268	BRL	730	ug/Kg	12/2/24	1614	UH ²

Respectfully submitted,

 Maya Watson, Laboratory Manager

CSRA ID #	Sample Description/Location	Date Sampled	Time	Analysis	Result	Reporting Limit	Units	Date Analyzed	Time	Analyst
24-10336	Influent to Pond	11/19/24	0740	TCLP Volatile Organic Compounds						
				1,1-Dichloroethene	BRL	100	ug/L	11/30/24	2024	ZHZ ²
				1,2-Dichloroethane	BRL	100	ug/L	11/30/24	2024	ZHZ ²
				2-Butanone	BRL	1000	ug/L	11/30/24	2024	ZHZ ²
				Benzene	BRL	100	ug/L	11/30/24	2024	ZHZ ²
				Carbon Tetrachloride	BRL	100	ug/L	11/30/24	2024	ZHZ ²
				Chlorobenzene	BRL	100	ug/L	11/30/24	2024	ZHZ ²
				Chloroform	BRL	100	ug/L	11/30/24	2024	ZHZ ²
				Tetrachloroethene	BRL	100	ug/L	11/30/24	2024	ZHZ ²
				Trichloroethene	BRL	100	ug/L	11/30/24	2024	ZHZ ²
				Vinyl Chloride	BRL	100	ug/L	11/30/24	2024	ZHZ ²
				TCLP Pesticides						
				Chlordane	BRL	0.00050	mg/L	12/3/24	1730	NT ²
				Endrin	BRL	0.00010	mg/L	12/3/24	1730	NT ²
				gamma-BHC	BRL	0.000050	mg/L	12/3/24	1730	NT ²
				Hepachlor	BRL	0.000050	mg/L	12/3/24	1730	NT ²
				Hepachlor epoxide	BRL	0.000050	mg/L	12/3/24	1730	NT ²
				Methoxychlor	BRL	0.00050	mg/L	12/3/24	1730	NT ²
				Toxaphene	BRL	0.0050	mg/L	12/3/24	1730	NT ²
				TCLP Herbicides						
				2,4,5-TP (Silvex)	BRL	0.040	mg/L	11/28/24	0058	AF ²
				2,4-D	BRL	0.040	mg/L	11/28/24	0058	AF ²

Sample Receipt Form

1 Client: City of Tignall CSRA Sample ID#s: 24-10336

2 Carrier: CSRA Client Other UPS Dated Initials: SH 11/20/24

	Yes	No	N/A	Details/Comments
3 Cooler Temperature(s) within limits of 0-6°C?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Temp.: _____ °C
4 Chain of Custody (COC) present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5 COG signed, dated, and timed when relinquished and received?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	COC Created by CSRA
6 Sampler name and /or signature of COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	COC Created by CSRA
7 Were all samples received within holding time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
8 Turn Around Time marked on the COC?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	If no TAT indicated, proceeded with standard TAT.
9 Were sample containers intact upon receipt?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
10 Do sample container labels match the COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
11 Are analyses requested indicated on the COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
12 Were all of the samples listed on the COC received?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
13 Was the sample collection date/time noted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
14 Did we receive sufficient sample volume for indicated analysis?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
15 Were samples received in appropriate containers?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
16 Were VOA samples received without headspace (<1/4" bubble)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
This section only applies to samples where pH can be checked at Sample Receipt.*				pH test strip standard chemical ID# : _____
17 Have containers needing chemical preservation been checked?*	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
18 Do containers meet preservation guidelines?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
19 Was pH adjusted at Sample Receipt?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

*Note: Certain analyses require chemical preservation but must be checked in the laboratory and not upon Sample Receipt such as Coliforms, Oil & Grease/TPH, and VOC's.



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QC 1042.10
 Revision 10
 Effective Date 01/03/22

Chain of Custody

CSRA Report: 62462

Name: Clyde Davis
 Company: City of Tignall
 Address: _____
 City, State, Zip: _____
 Phone: _____ E-mail: _____

Client: _____
 Project: _____
 Location: _____
 Report To: _____
 Invoice To: _____

Sampler Signature: _____ Date/Time: _____

Certification Required?: NELAC DHEC

CSRA ID #	Sample Description/ Location	Sampled		Matrix Code*	Sample Type**	Sample Container		Analysis Requested	Preservative
		Date	Time			#	Volume		
24-10336	Influent to pond	11/19/24	0740	SL	G	3	4oz	Complete TCLP, 8082 PCB and Pesticides	

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
			<i>S. Davis</i>	11/20/24	1550

Turnaround Time Request	
<input type="checkbox"/>	Standard 7-10 Business Days
<input type="checkbox"/>	Rush 5-7 Business Days
<input type="checkbox"/>	Rush 3-5 Business Days
<input type="checkbox"/>	Rush 2-3 Business Days
<input type="checkbox"/>	Special Request:

*Matrix Codes: WW=Waste Water; SW=Surface Water; DW=Drinking Water; GW=Ground Water; SO=Soil; SL=Sludge; PC=Paint Chips; O=Other(specify)
 **Sample Type: C=Composite; G=Grab

GENERAL CONSTRUCTION NOTES

- THIS SET OF PLANS REFERENCES RECORD DRAWINGS AND FIELD EVENTS FROM THE PROJECT SITE AS SHOWN BELOW. THESE DRAWINGS ARE AVAILABLE FOR CONTRACTOR REVIEW.
- SANITARY SEWER SYSTEM EXPANSION/PRECISION PLANNING, INC. 1992
- THE LOCATION OF EXISTING UTILITIES SHOWN ON THESE PLANS IS NOT GUARANTEED AS TO ACCURACY OR COMPLETENESS. AT LEAST 3 DAYS PRIOR TO BEGINNING ANY WORK, THE CONTRACTOR SHALL REQUEST A FIELD UTILITY LOCATE THROUGH GEORGIA'S UTILITY PROTECTION CENTER BY DIALING 811 OR 800-282-7411. THE CONTRACTOR SHALL COMPARE THESE FIELD-MARKED LOCATIONS WITH THE PROJECT PLANS AND NOTIFY THE ENGINEER OF ANY ANTICIPATED PROBLEMS OR NEED FOR CONTRACT CHANGES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO EXCAVATE OR CAUSE THE UTILITY OWNER TO EXCAVATE FOR THE PURPOSE OF DETERMINING EXACT ELEVATIONS OR LOCATIONS AT UTILITY CROSSINGS AND OTHER CRITICAL LOCATIONS WELL IN ADVANCE OF THE WORK UNDER THIS CONTRACT.
- UTILITY COORDINATION SHALL BE INCLUDED IN THE PROJECT SCHEDULE, AND IT IS THE EXPLICIT RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT THE PROJECT SCHEDULE INCLUDES COORDINATION. THE CONTRACTOR WILL NOT BE PAID ADDITIONALLY FOR THIS COORDINATION. THE CONTRACTOR SHOULD SEEK ASSISTANCE FROM ALL UTILITY COMPANIES TO LOCATE AND PROTECT THEIR FACILITIES.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT ANY DISRUPTIONS OF UTILITY SERVICE. ANY UTILITIES DAMAGED MUST BE REPAIRED THE SAME DAY UNLESS WRITTEN PERMISSION FROM OWNER IS GIVEN.
- IF THE CONTRACTOR DAMAGES ANY EXISTING UTILITIES OR FACILITIES DURING CONSTRUCTION, HE SHALL, AT HIS OWN EXPENSE, REPAIR OR REPLACE THEM TO THEIR ORIGINAL CONDITION AND QUALITY, AS APPROVED BY THE ENGINEER.
- CONTRACTOR SHALL BE RESPONSIBLE FOR HOLDING ANY POWER POLES AS REQUIRED DURING CONSTRUCTION AT HIS OWN EXPENSE.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS PRIOR TO BEGINNING ANY WORK AND ORDERING ANY EQUIPMENT. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
- THE CONTRACTOR SHALL MAINTAIN FIELD "AS-BUILT" DRAWINGS AND SHALL MEASURE AND SHOW LOCATION OF ALL PROPOSED IMPROVEMENTS.
- ALL CONSTRUCTION DEBRIS SHALL BE REMOVED FROM THE SITE AND LEGALLY DISPOSED OF AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL COORDINATE ALL WORK WITH THE OWNER AND MAKE ALL EFFORTS TO MINIMIZE INTERRUPTION TO OPERATION OF THE WATER POLLUTION CONTROL PLANT. CONTRACTOR SHALL NOTIFY OWNER TWO WEEKS IN ADVANCE OF ANY WORK WHERE SERVICE INTERRUPTION WILL BE REQUIRED. OWNER MUST APPROVE WORK SCHEDULE BEFORE WORK MAY BEGIN.
- ALL CONSTRUCTION STAKING AND LAYOUT SHALL BE CONTRACTOR'S SOLE RESPONSIBILITY.
- CONTRACTOR SHALL ABIDE BY ALL COUNTY WEIGHT LIMIT RESTRICTIONS ON ROADS WHEN HAULING EQUIPMENT AND MATERIALS TO SITE. ANY UTILITIES OR FACILITIES DAMAGED BY CONTRACTOR WHEN HAULING MATERIALS AND EQUIPMENT TO SITE SHALL BE REPAIRED OR REPLACED TO THEIR ORIGINAL QUALITY AND CONDITIONS AT CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL BUILDING PERMITS REQUIRED BY WILKES COUNTY.
- CONTRACTOR SHALL COORDINATE MATERIAL LAYDOWN & CONTRACTOR TRAILER LOCATIONS WITH OWNER PRIOR TO BEGINNING CONSTRUCTION.
- CARTER & SLOOPE WILL NOT SUPERVISE, DIRECT, CONTROL, OR HAVE AUTHORITY OVER OR BE RESPONSIBLE FOR CONTRACTOR'S MEANS, METHODS, TECHNIQUES, OR SAFETY PRECAUTIONS AND PROGRAMS INCIDENT TO THE WORK, OR WITH ANY FAILURE OF CONTRACTOR TO COMPLY WITH APPLICABLE LAWS AND REGULATIONS PERTAINING TO THE PERFORMANCE OF THE WORK. UNLESS NOTED OTHERWISE, CARTER & SLOOPE WILL NOT SUPERVISE, DIRECT, CONTROL, OR HAVE AUTHORITY OVER OR BE RESPONSIBLE FOR CONTRACTOR'S SEQUENCES OR PROCEDURES OF CONSTRUCTION.
- THIS DESIGN IS VALID ONLY FOR THIS PROJECT AND SITE.
- CARTER & SLOOPE IS NOT RESPONSIBLE FOR CONSTRUCTION SITE SAFETY. THIS INCLUDES THE FOLLOWING:
 - THE CONTRACTOR SHALL FOLLOW FEDERAL AND STATE STANDARDS TOWARDS SAFETY.
 - THE CONTRACTOR MUST PROVIDE AN ON-SITE COMPETENT PERSON, AS DEFINED BY OSHA TO EVALUATE THE GROUNDS CONDITIONS ENCOUNTERED DURING EXCAVATION TO DETERMINE THEIR CONFORMANCE TO THE ASSUMED GROUND CONDITIONS DESCRIBED HEREIN.
 - CARTER & SLOOPE HAS NOT EVALUATED THE SITE FOR THE PRESENCE OF HAZARDOUS MATERIALS OR ENVIRONMENTAL CONTAMINATES.
 - CONTRACTOR SHALL FLAG ANY 25' UNDISTURBED BUFFER PRIOR TO CONSTRUCTION.
 - STRUCTURE & PIPING ABANDONMENT REQUIREMENTS:
- ALL EXISTING SEWER & FORCE MAINS SHOWN TO BE ABANDONED MAY BE LEFT IN PLACE UNLESS CONFLICTING WITH NEW CONSTRUCTION. ALL OPEN ENDS OF ABANDONED PIPE LINES SHALL BE PLUGGED WITH MANUFACTURED OR GROUT TYPE PLUGS.
- MANHOLES TO BE ABANDONED: CONTRACTOR SHALL REMOVE MANHOLE FRAME & COVER, ADJUSTMENT RINGS, AND TOP RISER PORTION TO A MINIMUM OF 24" BELOW GRADE. PLUG ALL PIPE CONNECTIONS WITH FABRICATED OR GROUT TYPE PLUGS. CONTRACTOR SHALL BREAKUP INVERT SECTION OF THE MANHOLE TO PREVENT WATER RETENTION AND THEN BACKFILL WITH SUITABLE ON-SITE MATERIAL. ALTERNATELY, CONTRACTOR MAY LEAVE THE INVERT IN PLACE AND FILL WITH CEMENTITIOUS MATERIAL (FLOABLE FILL) UP TO A MAXIMUM DEPTH 24" BELOW GRADE.
- PIPES TO BE ABANDONED SHALL BE CUT IN PLACE AND CAPPED WITH AN M/C AP.

YARD PIPING

- MATERIALS AND DIAMETERS OF EXISTING PIPING ARE PROVIDED ON SHEETS 8 - # BASED ON THE BEST AVAILABLE INFORMATION PROVIDED BY THE OWNER. CONTRACTOR SHALL POT HOLE & FIELD VERIFY PIPE MATERIALS AND DIAMETERS PRIOR TO ORDERING VALVES, FITTINGS, SLEEVES, AND APPURTENANCES.
- WHERE UTILITY EXCAVATION IS REQUIRED FOR REPLACEMENT OF PIPE, INSTALLATION OF VALVES OR FITTINGS WITHIN THE PUMP STATION SITE, CONTRACTOR SHALL BE RESPONSIBLE FOR PERFORMING EXCAVATION AND TRENCHING IN ACCORDANCE WITH ALL STATE AND FEDERAL LAWS AND REGULATIONS FOR SAFETY, LIFE, HEALTH, AND PROPERTY PROTECTION. PROVIDE ALL NECESSARY SHEETING, SHORING, AND/OR BRACING FOR EXCAVATION REQUIREMENTS.
- BEDDING OF PRESSURE PIPE SHALL BE A MINIMUM OF TYPE 2 IN ACCORDANCE WITH ANSI/AWWA C600 FOR DUCTILE IRON PIPE AND ANSI/AWWA C605 FOR PVC PIPE. BACKFILL SHALL BE COMPACTED TO 98% OF MAXIMUM DRY DENSITY.
- PERMANENT GRASSING SHALL BE RE-ESTABLISHED FOR ALL DISTURBED AREAS AFTER CONSTRUCTION IS COMPLETE. SEEDING RATES, PLANTING DATES, FERTILIZER REQUIREMENTS, AND MULCH REQUIREMENTS SHALL BE AS SPECIFIED IN THE SECTION TITLED DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION - D63) OF THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, LATEST EDITION. GRASSING VARIETY SHALL MATCH EXISTING SPECIES WHERE POSSIBLE BUT CONTRACTOR SHALL SUBMIT FINAL SPECIES SELECTION, FERTILIZER, AND MULCH INFORMATION TO ENGINEER FOR APPROVAL PRIOR TO PLANTING.

PROTECTIVE COATINGS

- CONTRACTOR SHALL APPLY PROTECTIVE COATINGS TO EXISTING DUCTILE IRON PIPE, CHANNEL WEIRS & TRAVELING SLIDE GATES IN THE HEADWORK CHANNELS, INFLUENT JUNCTION BOX, AND RETURN SLUDGE FLUME STRUCTURE FOR THE SCHEDULED WORK. MATERIALS SPECIFIED ARE THOSE MANUFACTURED BY TNEPEC COMPANY, INC. EQUIVALENT MATERIALS AS MANUFACTURED BY THE ALTERNATE MANUFACTURERS LISTED FOR EACH APPLICATION MAY BE USED.
- CONTRACTOR SHALL APPLY PROTECTIVE COATINGS TO ALL INTERIOR MET WELL AND PROPOSED MANHOLE CONCRETE SURFACES EXPOSED TO RAW WASTEWATER AND/OR WASTEWATER PIPES PER THE SCHEDULE BELOW. MATERIALS SPECIFIED ARE THOSE AS MANUFACTURED BY TNEPEC OR ENGINEER APPROVED EQUAL.
- CONTRACTOR SHALL ENSURE THAT THE PROTECTIVE COATINGS USED SHALL BE COMPATIBLE WITH THE UNDERLYING CONCRETE REPAIR GROUTS AND CHEMICAL GROUTS USED FOR CONCRETE REHABILITATION.
- CONTRACTOR SHALL ENSURE ALL NON-CONCRETE INTERIOR SURFACES WITHIN THE MET WELL ARE MASKED WITH PLASTIC OR ALUMINUM OF SUITABLE THICKNESS FOR PROTECTION, PRIOR TO COATING INSTALLATION.
- WHERE NEW DIP IS INSTALLED, THE INTERIOR OF THE PIPE SHALL BE LINED WITH TNEPEC SERIES 431 OR ENGINEER APPROVED EQUAL AND THE EXTERIOR SHALL BE COATED AS REQUIRED IN THE "EXTERIOR EXPOSED" TABLE.
- WORK SHALL BE PERFORMED BY SKILLED APPLICATORS THOROUGHLY TRAINED IN COATING APPLICATIONS AND FAMILIAR WITH THE SPECIFIC REQUIREMENTS OF THE COATING MANUFACTURER. IN ADDITION TO A ONE-YEAR WARRANTY AGAINST COATING FAILURE, THE CONTRACTOR SHALL ALSO PROVIDE A TWO-YEAR ADHESION WARRANTY ON THE COATING SYSTEM FROM THE DATE OF SUBSTANTIAL COMPLETION. ANY FAILURES WILL BE REPAIRED BY THE CONTRACTOR AT THEIR EXPENSE AND AN ADDITIONAL TWO-YEAR WARRANTY SHALL BE PROVIDED ON ANY REPAIRS. THE COATINGS SUPPLIER SHALL PROVIDE A FIVE-YEAR MANUFACTURER'S LIMITED MATERIAL WARRANTY FROM THE DATE OF SUBSTANTIAL COMPLETION TO REPLACE THE PRODUCT IN THE EVENT OF A DEFECTIVE CONDITION OF THE PRODUCT.

EXTERIOR EXPOSED (TNEPEC, DEVCO, CARBOLINE)

A	PREPARATION:	PER MANUFACTURER'S INSTRUCTIONS
B	PRIMER:	SERIES N69 HI-BUILD EPOXYLINE, DFT 3.0 TO 5.0 MILLS
C	INTERMEDIATE:	SERIES N69 HI-BUILD EPOXYLINE, DFT 4.0 TO 6.0 MILLS
D	FINISH:	SERIES 1075U ENDURA-SHIELD, DFT 2.0 TO 3.0 MILLS
E	TOTAL DFT:	9.0 TO 14.0 MILLS

INTERIOR LINED CONCRETE HEADWORKS

A	PREPARATION:	REMOVE THE EXISTING LINING SYSTEM IN ACCORDANCE WITH NACE NO. 6/SSPC-SP13 SURFACE PREPARATION STANDARDS AND CRI TECHNICAL GUIDELINES. ABRASIVE BLAST, SHOT-BLAST, WATER JET OR MECHANICALLY ABRASE CONCRETE SURFACES TO PROVIDE A MINIMUM (RI-CSP 5 SURFACE PROFILE.
B	SPRINT COAT/RESURFACER:	SERIES 218 APPLIED UP TO 1/2" OR SERIES 217 APPLIED 1/2" TO 4"
C	PERMA-SHIELD BODY COAT:	SERIES 434 OR 436 APPLIED AT 125 MILS
D	GLAZE FINISH COAT:	SERIES 435 APPLIED AT 15-20 MILS

PIPING & WEIR (TNEPEC, SAUERISEN, DUDICK)

A	PREPARATION:	PER MANUFACTURER'S INSTRUCTIONS
B	PRIMER:	SERIES 1140-121I POT-POX PLUS, DFT 4.0 TO 6.0 MILLS
C	FINISH:	SERIES 431 PERMA-SHIELD PL, DFT 40.0 MILLS
D	TOTAL DFT:	44.0 TO 46.0 MILLS

BELOW GROUND

A	PREPARATION:	FACTORY SHOP COATED
B	PRIMER:	ASPHALTIC COATING, 1.0 MIL THICK PER AWWA C151

PIPING, VALVES & ACCESSORIES

- WHERE DUCTILE IRON PIPE IS REPLACED WITHIN THE HEADWORKS, THE PIPE SHALL CONFORM TO ANSI 21.50 (AWWA C-150) AND ANSI A21.5 (AWWA C-151). PRESSURIZED PIPE LESS THAN 12" IN DIAMETER SHALL BE PRESSURE CLASS 950. GASKETS SHALL BE 53R ELASTOMER.
- PIPE AND FITTINGS SHALL HAVE AN INTERIOR AND EXTERIOR COATING AS DESCRIBED IN PROTECTIVE COATINGS. PUSH-ON MECHANICAL JOINTS SHALL CONFORM TO ANSI A21.11 (AWWA C-111) AND FLANGED JOINTS SHALL BE FACED AND DRILLED PER ABSI B16.1, 125 POUND STANDARD.
- BOLTS, WASHERS AND NUTS FOR EXPOSED FLANGED JOINTS SHALL BE GRADE B, A193 A-307 CARBON STEEL AND CONFORM TO ANSI B16.1 FOR CLASS 125. BOLTS AND ACCESSORIES FOR BELOW GROUND MECHANICAL OR FLANGE JOINTS SHALL BE HIGH-STRENGTH, LOW-ALLOY STEEL PER AWWA C-111.
- PLUG VALVES SHALL BE QUARTER-TURN, ECCENTRIC TYPE WITH A MINIMUM PORT AREA OF 80% AND SHALL CONFORM TO AWWA C-517. VALVE BODY SHALL BE CAST IRON MEETING ASTM A126, CLASS B WITH A MINIMUM WORKING PRESSURE OF 150 PSI. VALVE SEAT SHALL BE 30% NICKEL AND BEARINGS SHALL BE RADIAL SHAFT, PERMANENTLY LUBRICATED TYPE AND STEM SHALL BE STAINLESS STEEL. PLUGS SHALL BE CAST IRON WITH BUNA RUBBER FACING. VALVES SHALL BE AS MANUFACTURED BY DEZURIK, CLON OR VAL-MATIC.
- ALL PIPE AND MATERIALS REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE PROPERLY DISPOSED OF OFF-SITE.

ELEVATION DATA INFORMATION

"THE TOPOGRAPHIC ELEVATION DATA SHOWN HEREON WAS OBTAINED FROM USGS AND IS NOT CERTIFIED AS CORRECT BY THIS ENGINEER. USERS OF THIS DATA DO SO AT THEIR OWN RISK."

"THE EXISTING STRUCTURES ELEVATION DATA SHOWN HEREON WAS PRODUCED BY AGENTS OF THIS FIRM."

PROTECTIVE COATINGS

- CONTRACTOR SHALL APPLY PROTECTIVE COATING TO THE INTERIOR PROPOSED MANHOLE A-4 ONLY. NO OTHER CONCRETE SURFACES SHALL BE COATED. THE CONTRACTOR SHALL COAT MANHOLE A-4 USING ONE THE SYSTEMS SCHEDULED BELOW:

MANHOLE COATING SCHEDULE

PRODUCT	SURFACE PREP	PRIME/BUILD BACK	INTERMEDIATE	FINISH
DURAMER 1030 SERIES (TWO COMPONENT COATING SYSTEM)	PHYSICALLY REMOVE LOOSE PARTICULATES, ACID ETCH SMOOTH SURFACES, POWER WASH AT SURFACE.	1.5 MIL DFT	45 MIL DFT	10 MIL DFT
RAVE 405 (ULTRA HIGH-BUILD EPOXY SYSTEM)	SSPC-SP13/ NACE 6	RAVEN 755 REINFORCED CEMENTITIOUS BUILD-BACK AS REQUIRED FOR PROPER FINISH COAT 1/2" MINIMUM	N/A	RAVEN 405 ULTRA HIGH-BUILD EPOXY, 150 MIL DFT
TNEPEC 218/435 SERIES (ULTRA HIGH-BUILD EPOXY SYSTEM)	SSPC-SP13/ NACE 6	TNEPEC SERIES 218 EPOXY CEMENTITIOUS RESURFACER, THICKNESS AS REQUIRED TO FILL ALL VOIDS AND PINHOLES, 1/2-INCH MINIMUM THICKNESS	TNEPEC SERIES 434 PERMA-SHIELD AGGREGATE REINFORCED EPOXY LINING 125 MIL DFT	TNEPEC SERIES 435 PERMA-GLAZE, 15 MIL DFT
SPECTRASHIELD (POLYURATHANE/POLYMETRIC FOAM AND MODIFIED POLYMER CORROSION BARRIER)	SSPC-SP13/ NACE 6	SPECTRASHIELD MODIFIED POLYMER MOISTURE BARRIER, 40 MIL DFT	SPECTRASHIELD POLYURETHANE/POLYMETRIC BLEND FOAM, 400 MIL DFT	SPECTRASHIELD MODIFIED POLYMER CORROSION BARRIER, 60 MIL DFT

RELEASES

03/16/26 RELEASE FOR BID
03/30/26 ADDENDUM #1

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03/12/2026
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PROFESSIONAL, CERT. #3581
EXPIRES: 12/21/2026

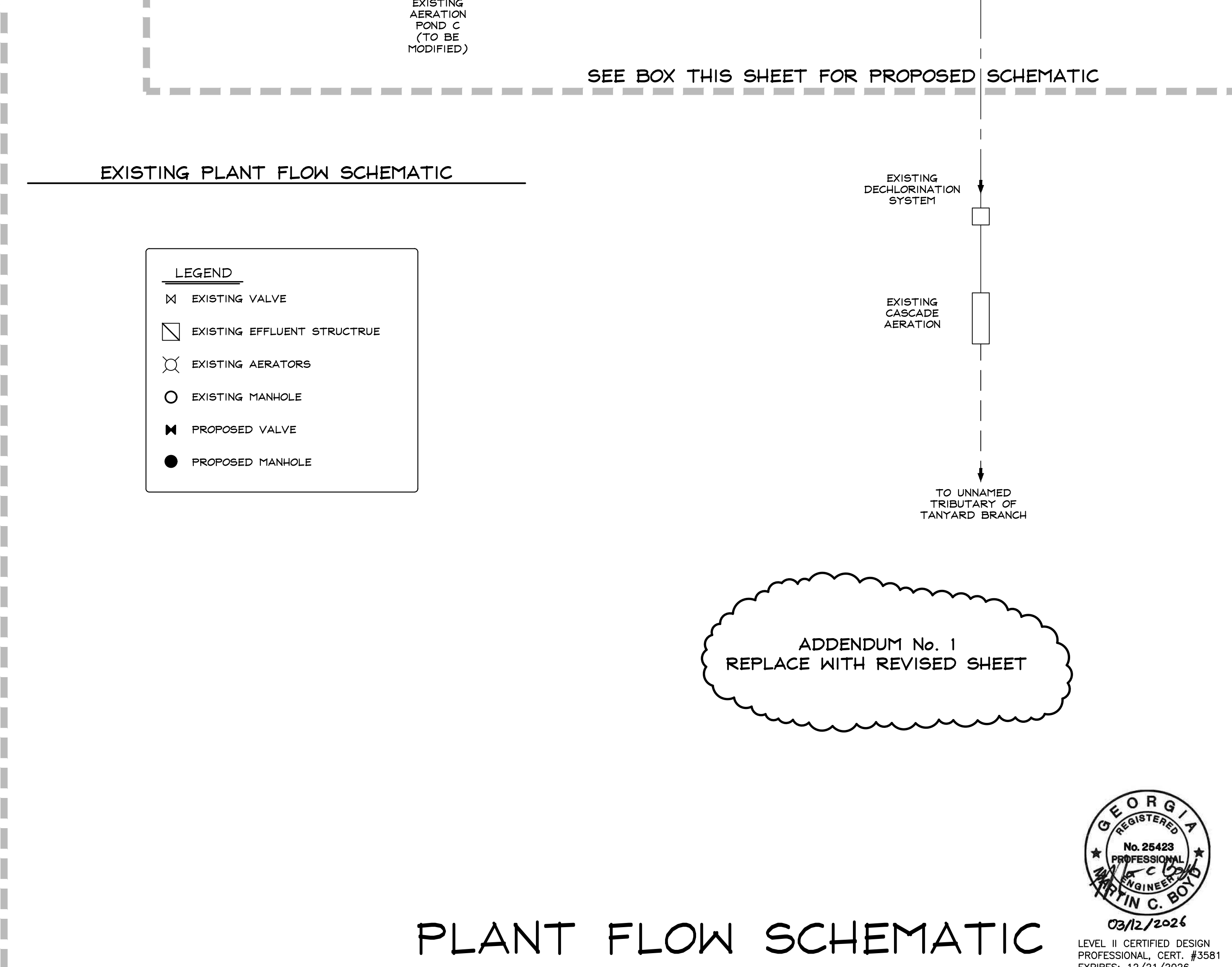
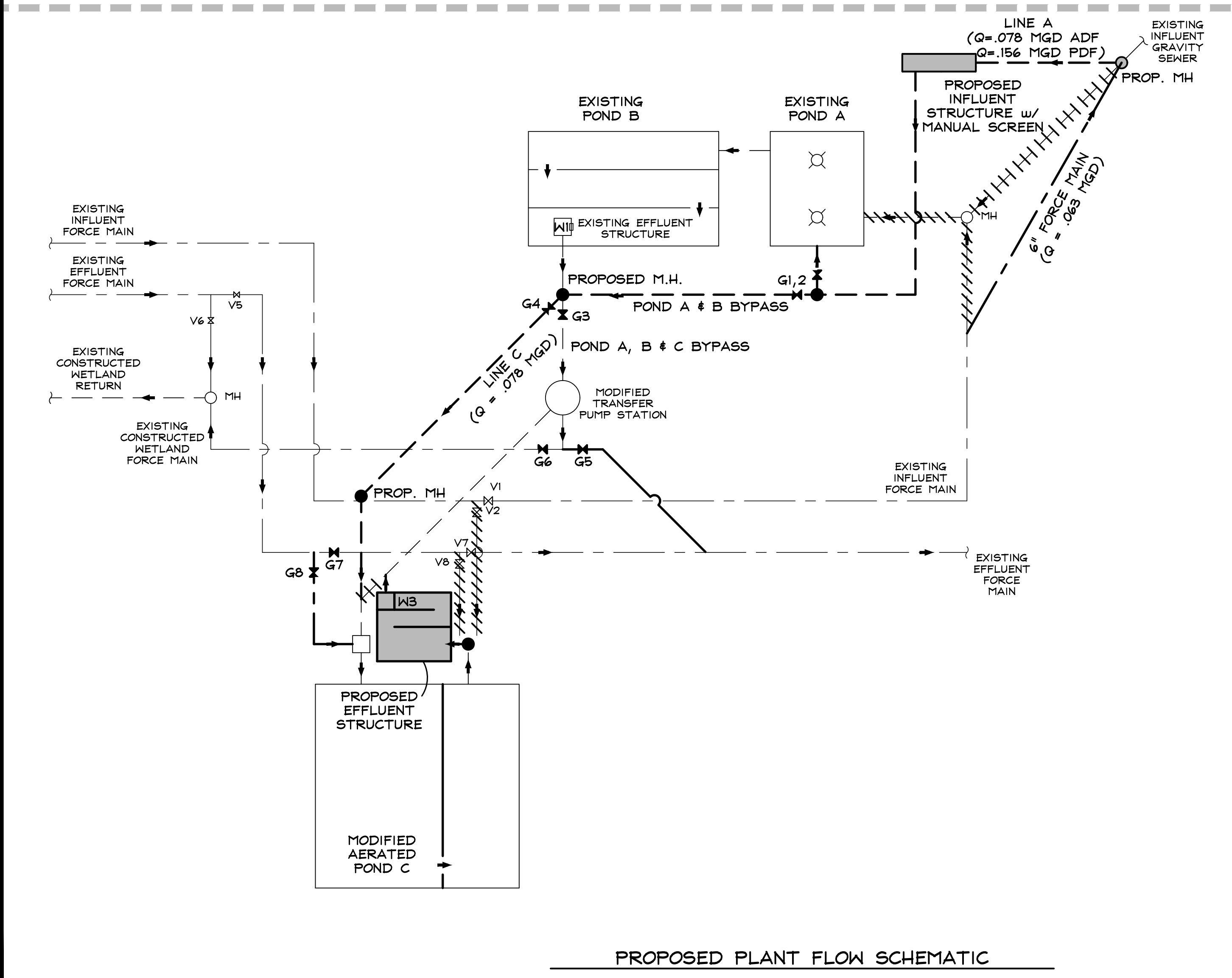
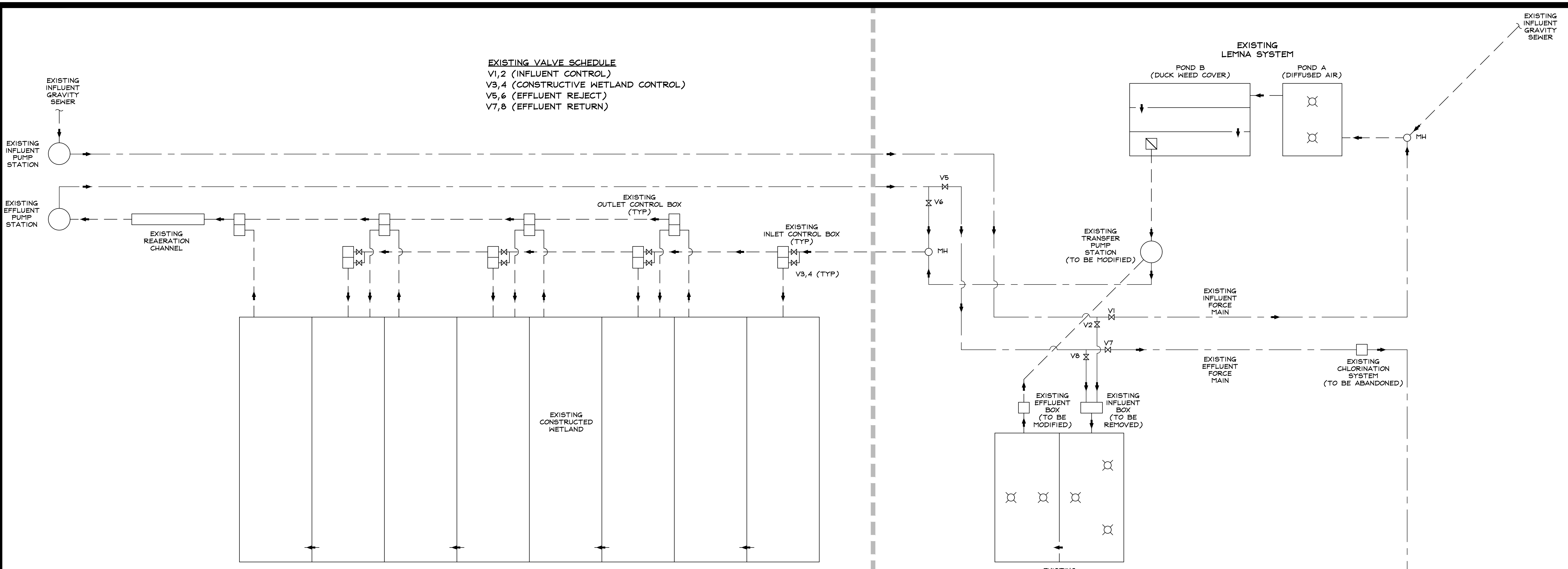
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DATE: 03/16/26 SHEET NO.: 2

GENERAL CONSTRUCTION NOTES

RELEASES	
03/16/26	RELEASE FOR BID
03/30/26	ADDENDUM #1

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LEGEND

- ⊗ EXISTING VALVE
- ▭ EXISTING EFFLUENT STRUCTURE
- ⊗ EXISTING AERATORS
- EXISTING MANHOLE
- ⊗ PROPOSED VALVE
- PROPOSED MANHOLE

ADDENDUM No. 1
REPLACE WITH REVISED SHEET



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DATE: 03/16/26	4

PLANT FLOW SCHEMATIC

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EXISTING STRUCTURE KEY		
TAG	STRUCTURE	NOTES
1	AERATION BASIN POND "A"	TO BE MODIFIED
2	LEMNA SYSTEM POND "B"	TO BE MODIFIED
3	PARTIAL MIX POND "C"	TO BE MODIFIED
4	OPERATIONS BUILDING	TO BE MODIFIED
5	CHEMICAL INJECTION POINT	TO BE ABANDONED
6	STORAGE BUILDING	
7	STORAGE BUILDING	TO BE MODIFIED
8	EQUIPMENT STORAGE	
9	EQUIPMENT STORAGE	
10	PUMP STATION	TO BE MODIFIED
11	LEMNA SYSTEM EFFLUENT BOX	TO BE MODIFIED
12	PARTIAL MIX POND INFLUENT STRUCTURE	TO BE REMOVED
13	PARTIAL MIX POND EFFLUENT STRUCTURE	TO BE MODIFIED
14	CHEMICAL INJECTION POINT (ABANDONED)	TO BE DEMOED

RELEASES	
03/16/26	RELEASE FOR BID
03/30/26	ADDENDUM #1

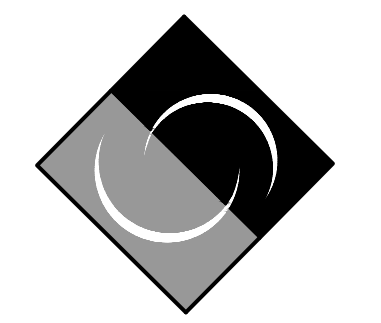
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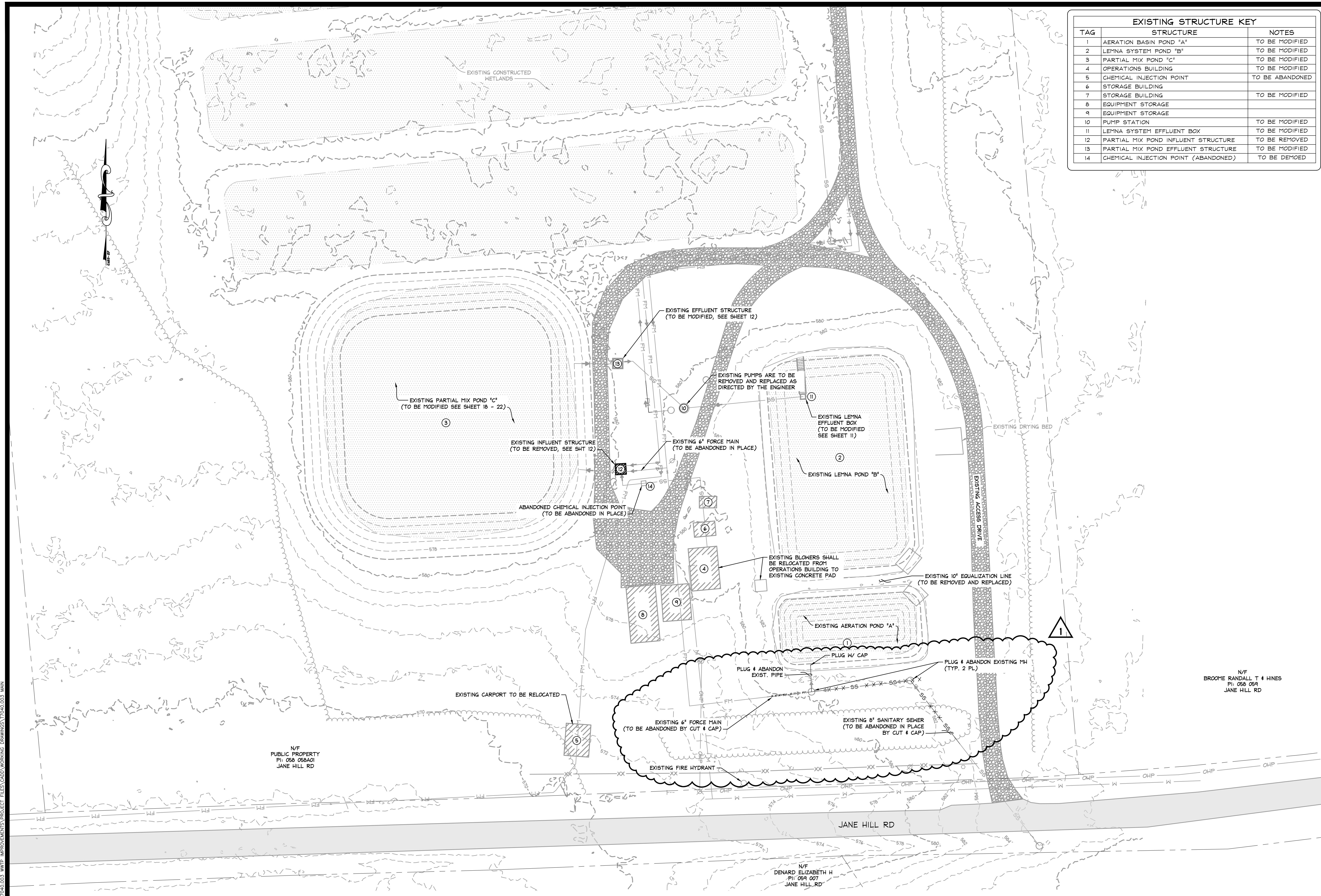
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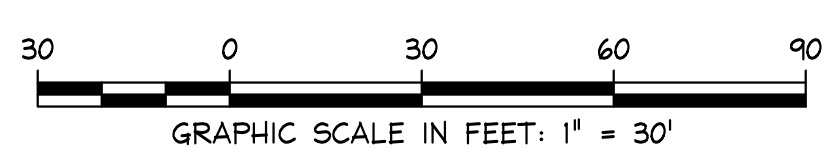
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Know what's below.
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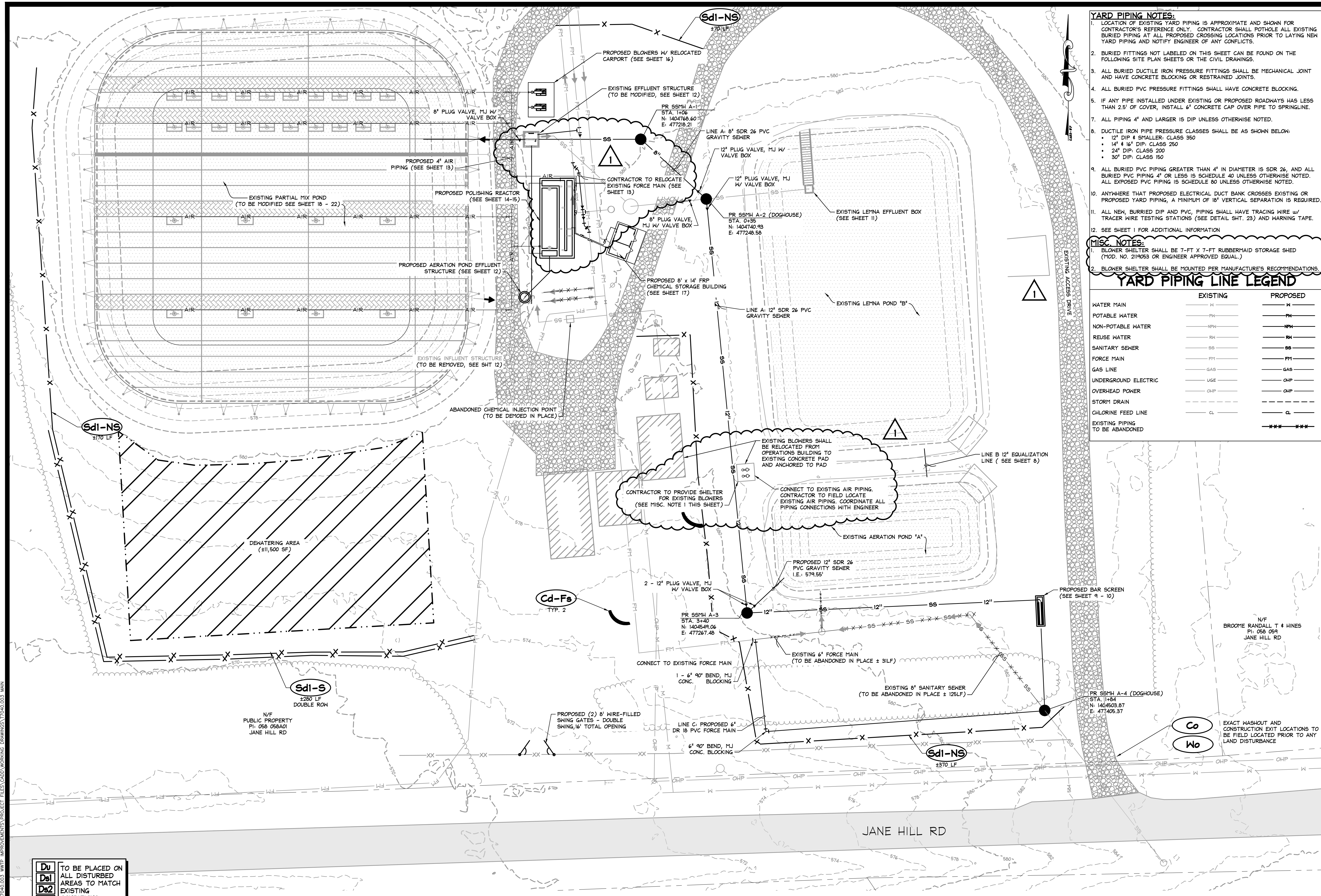


EXISTING SITE PLAN - SOUTH

N/F
DENARD ELIZABETH H
PI: 054 007 01
JANE HILL RD



N/F
BROOME RANDALL T & HINES
PI: 058 059
JANE HILL RD



- YARD PIPING NOTES:**
1. LOCATION OF EXISTING YARD PIPING IS APPROXIMATE AND SHOWN FOR CONTRACTOR'S REFERENCE ONLY. CONTRACTOR SHALL POTHOLE ALL EXISTING BURIED PIPING AT ALL PROPOSED CROSSING LOCATIONS PRIOR TO LAYING NEW YARD PIPING AND NOTIFY ENGINEER OF ANY CONFLICTS.
 2. BURIED FITTINGS NOT LABELED ON THIS SHEET CAN BE FOUND ON THE FOLLOWING SITE PLAN SHEETS OR THE CIVIL DRAWINGS.
 3. ALL BURIED DUCTILE IRON PRESSURE FITTINGS SHALL BE MECHANICAL JOINT AND HAVE CONCRETE BLOCKING OR RESTRAINED JOINTS.
 4. ALL BURIED PVC PRESSURE FITTINGS SHALL HAVE CONCRETE BLOCKING.
 5. IF ANY PIPE INSTALLED UNDER EXISTING OR PROPOSED ROADWAYS HAS LESS THAN 2.5' OF COVER, INSTALL 6" CONCRETE CAP OVER PIPE TO SPRINGLINE.
 7. ALL PIPING 4" AND LARGER IS DIP UNLESS OTHERWISE NOTED.
 8. DUCTILE IRON PIPE PRESSURE CLASSES SHALL BE AS SHOWN BELOW:
 - 12" DIP & SMALLER: CLASS 350
 - 14" & 16" DIP: CLASS 250
 - 24" DIP: CLASS 200
 - 30" DIP: CLASS 150
 9. ALL BURIED PVC PIPING GREATER THAN 4" IN DIAMETER IS SDR 26, AND ALL BURIED PVC PIPING 4" OR LESS IS SCHEDULE 40 UNLESS OTHERWISE NOTED. ALL EXPOSED PVC PIPING IS SCHEDULE 80 UNLESS OTHERWISE NOTED.
 10. ANYWHERE THAT PROPOSED ELECTRICAL DUCT BANK CROSSES EXISTING OR PROPOSED YARD PIPING, A MINIMUM OF 18" VERTICAL SEPARATION IS REQUIRED.
 11. ALL NEW BURIED DIP AND PVC PIPING SHALL HAVE TRACING WIRE W/ TRACER WIRE TESTING STATIONS (SEE DETAIL SHT. 23) AND WARNING TAPE.
 12. SEE SHEET 1 FOR ADDITIONAL INFORMATION.

MISC. NOTES:

1. BLOWER SHELTER SHALL BE 7-FT X 7-FT RUBBERMAID STORAGE SHED (MOD. NO. 211953 OR ENGINEER APPROVED EQUAL.)
2. BLOWER SHELTER SHALL BE MOUNTED PER MANUFACTURER'S RECOMMENDATIONS.

YARD PIPING LINE LEGEND

	EXISTING	PROPOSED
WATER MAIN	W	W
POTABLE WATER	PH	PH
NON-POTABLE WATER	NPW	NPW
REUSE WATER	RW	RW
SANITARY SEWER	SS	SS
FORCE MAIN	FM	FM
GAS LINE	GAS	GAS
UNDERGROUND ELECTRIC	UGE	OHP
OVERHEAD POWER	OHP	OHP
STORM DRAIN	SD	SD
CHLORINE FEED LINE	CL	CL
EXISTING PIPING TO BE ABANDONED	---X---	---

RELEASES

03/16/26	RELEASE FOR BID
03/30/26	ADDENDUM #1

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FOR THE TOWN OF TIGNALL WILKES COUNTY, GEORGIA

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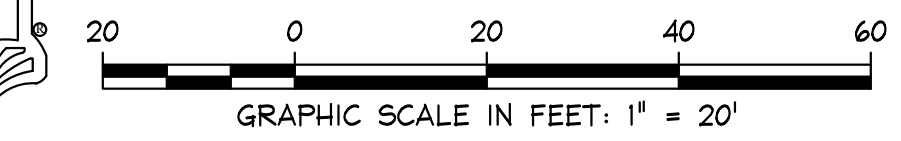
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Du TO BE PLACED ON ALL DISTURBED AREAS TO MATCH EXISTING CONDITIONS
Ds1
Ds2
Ds3
Se SEE NOTE 16, ECI

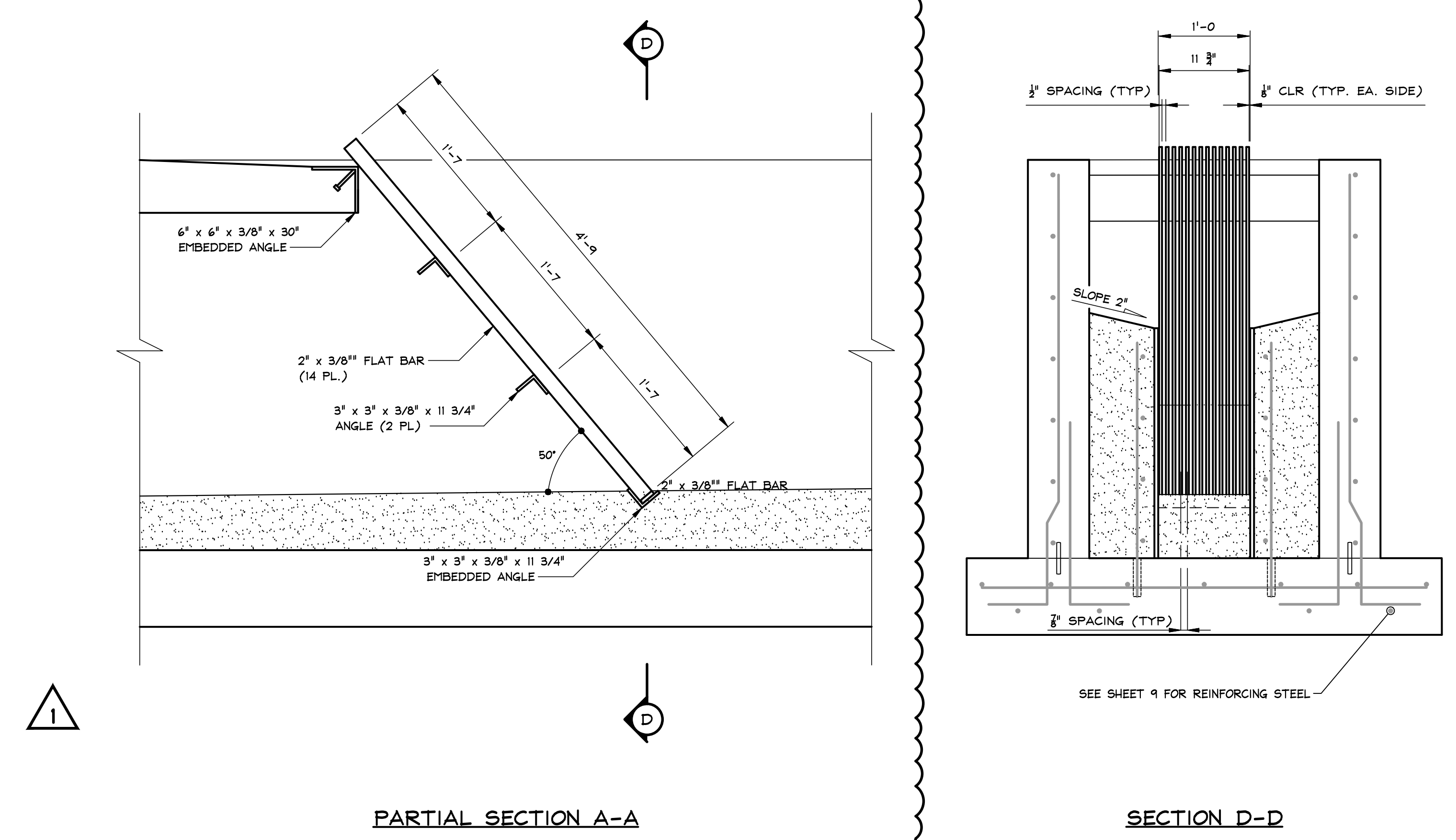


PROPOSED SITE PLAN - SOUTH

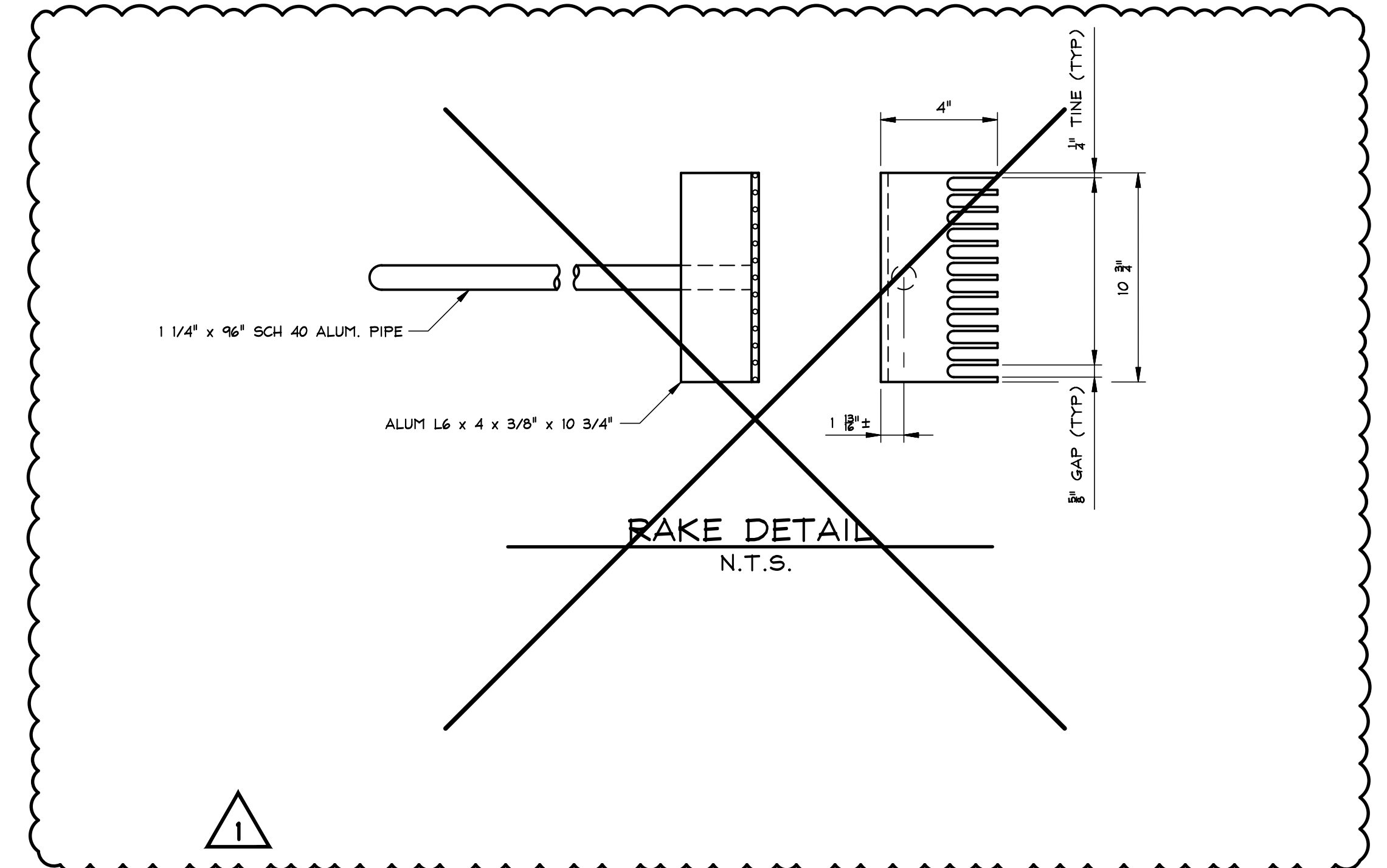


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NOTES:
 1. OWNER TO PROVIDE BAR SCREEN RAKE.



PARTIAL SECTION A-A
 SECTION D-D
 SCREEN DETAIL
 SCALE: 1" = 1'-0"

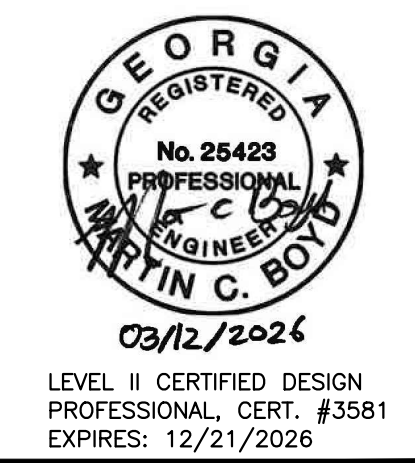


~~RAKE DETAIL
 N.T.S.~~

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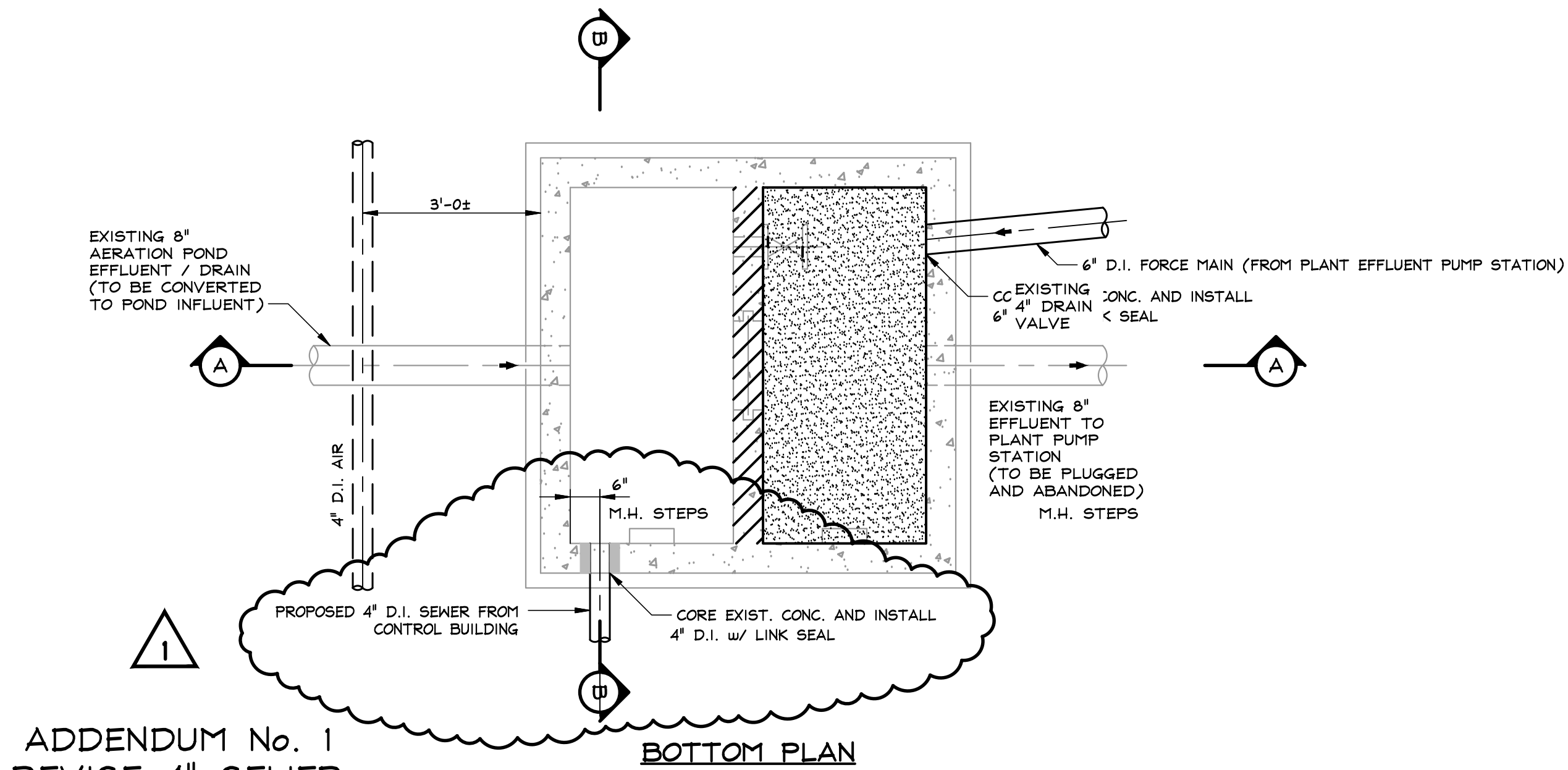


PROPOSED INFLUENT STRUCTURE DETAILS

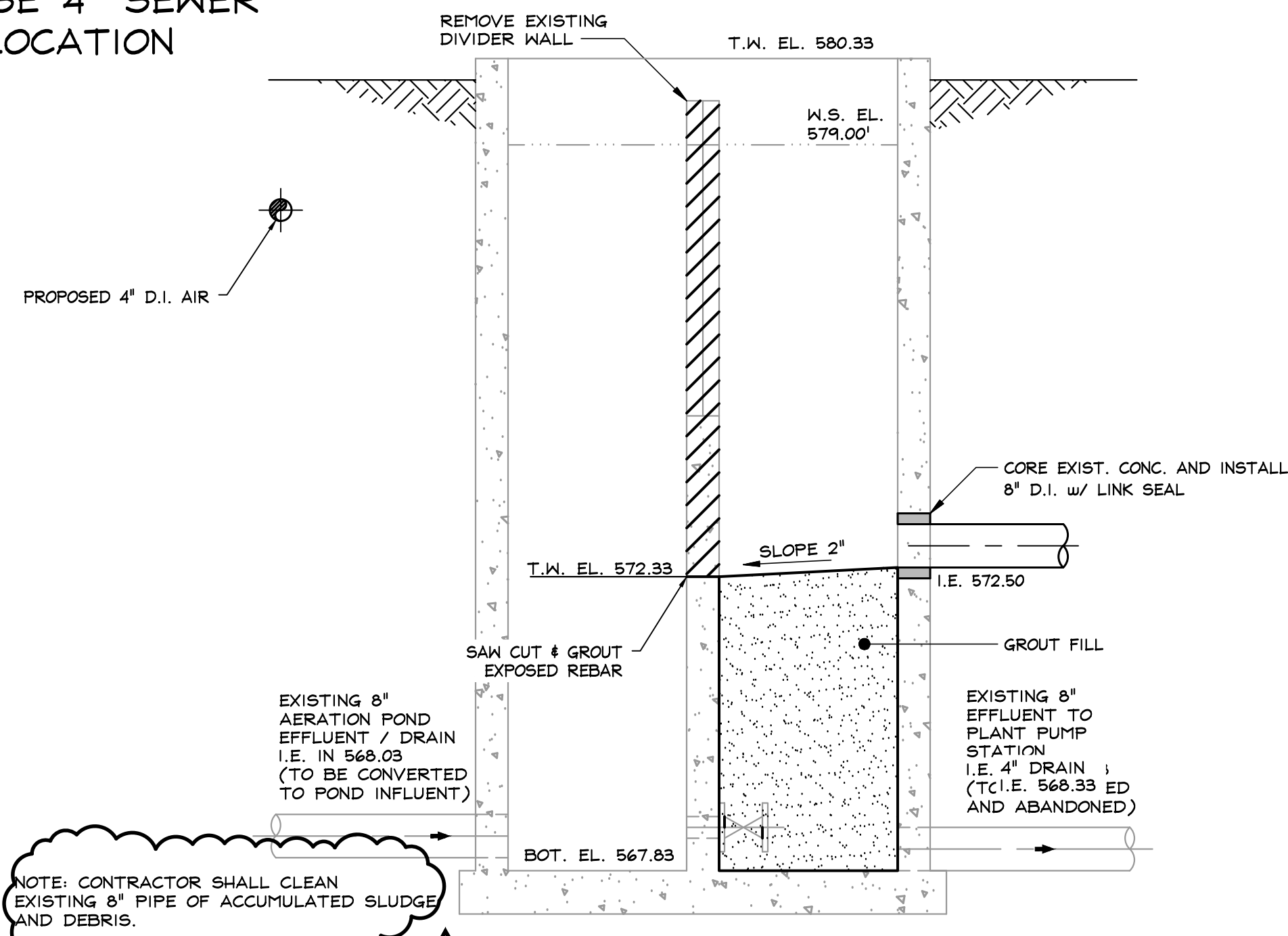


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RELEASES	
03/16/26	RELEASE FOR BID
03/30/26	ADDENDUM #1

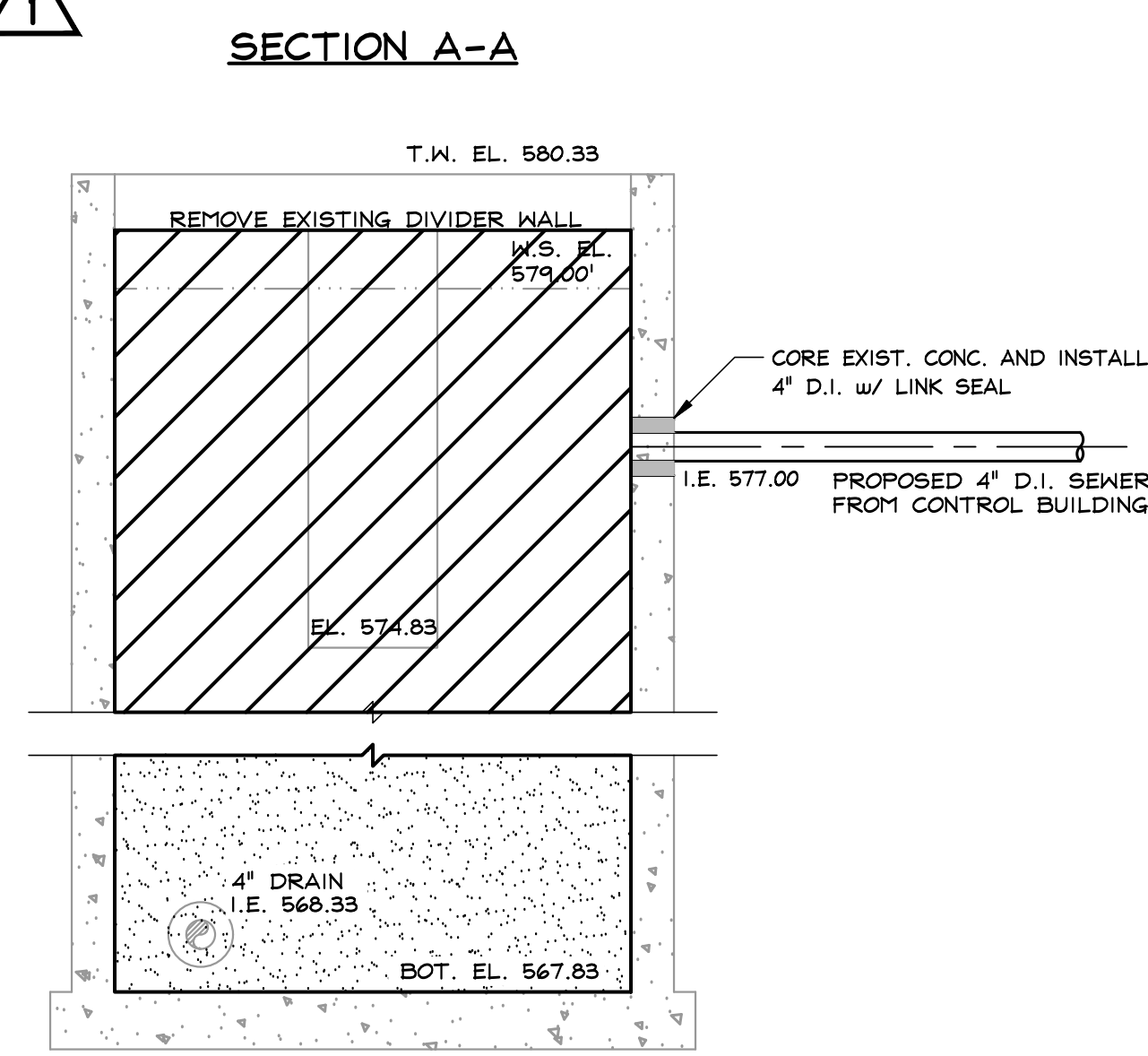


ADDENDUM No. 1
REVISE 4" SEWER
LOCATION

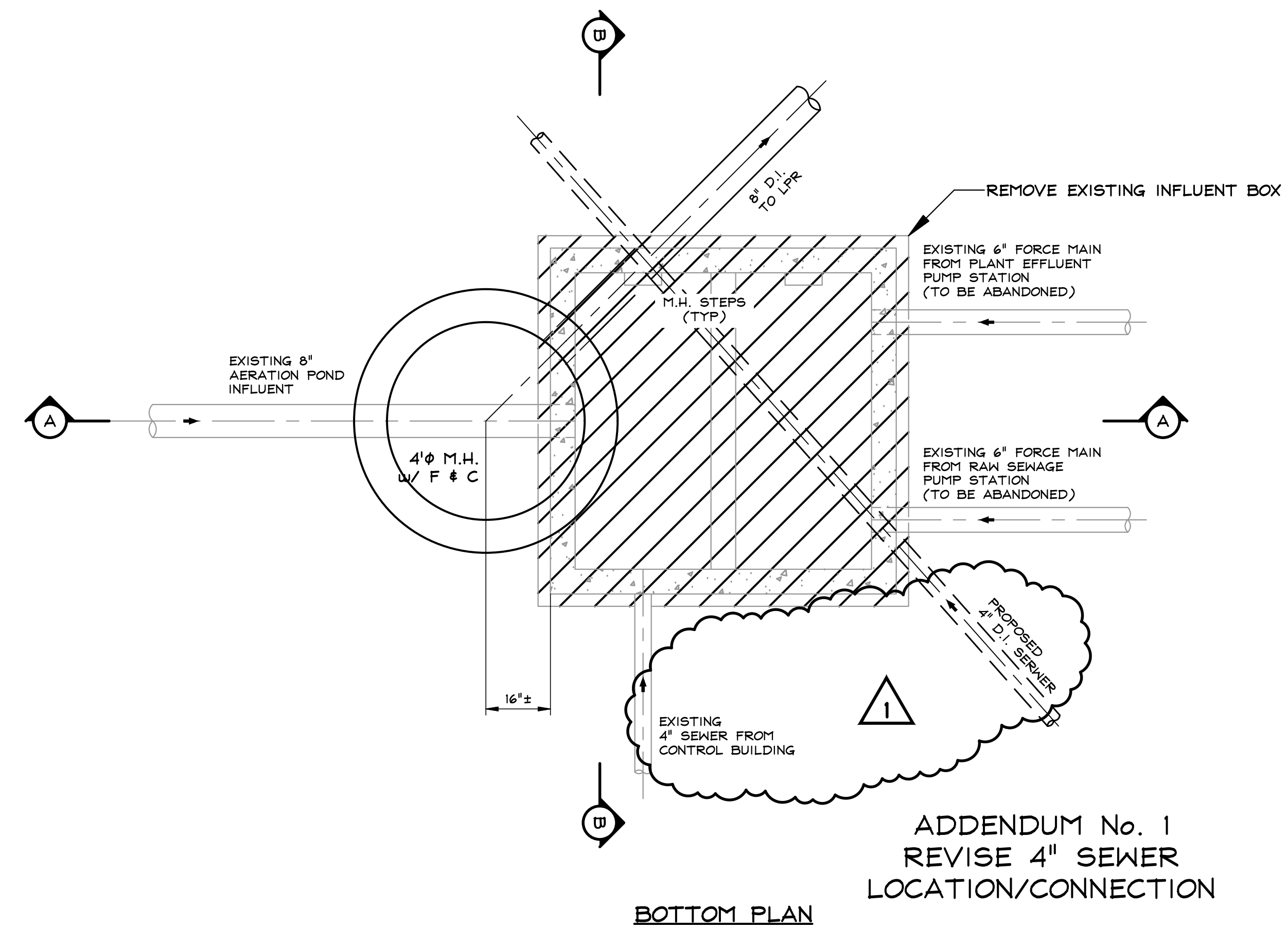


ADDENDUM No. 1
ADD NOTE

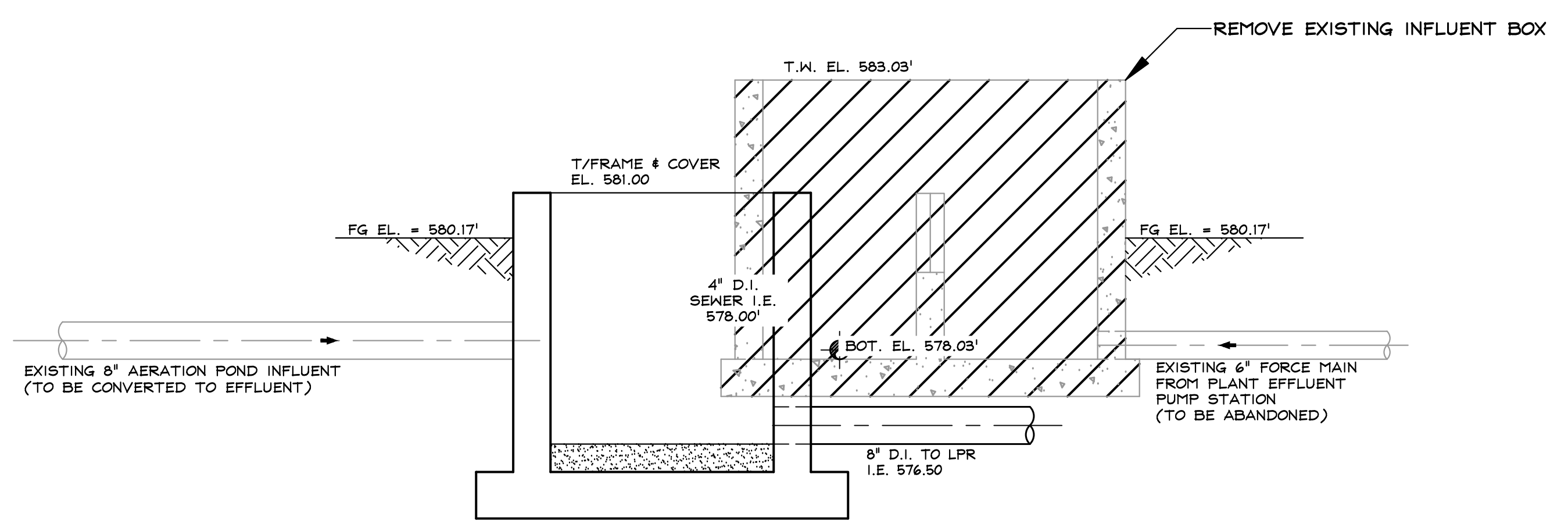
NOTE: CONTRACTOR SHALL CLEAN
EXISTING 8" PIPE OF ACCUMULATED
SLUDGE AND DEBRIS.



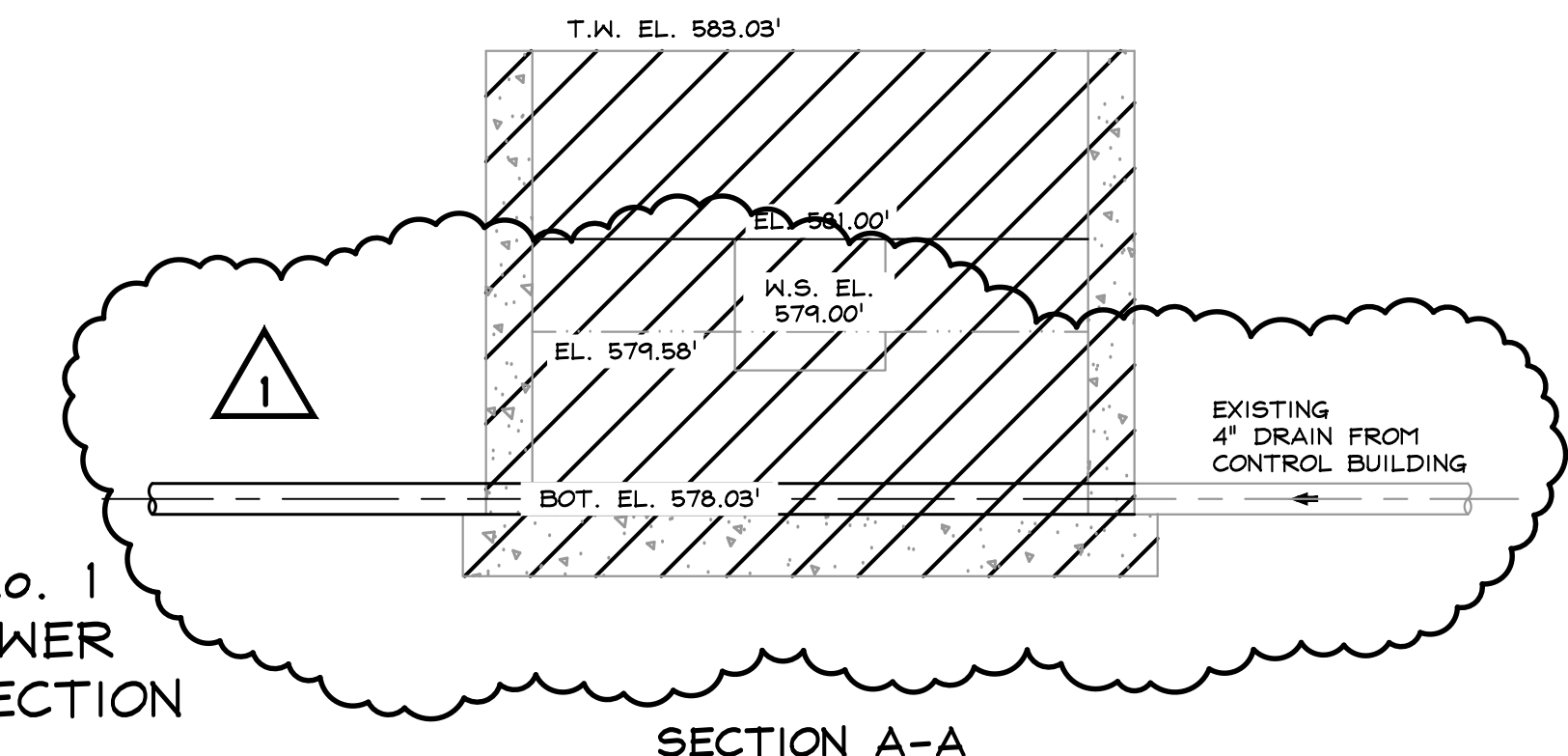
MODIFICATIONS TO EXISTING
AERATION BASIN EFFLUENT STRUCTURE
SCALE: 1/2" = 1'-0"



ADDENDUM No. 1
REVISE 4" SEWER
LOCATION/CONNECTION



ADDENDUM No. 1
REVISE 4" SEWER
LOCATION/CONNECTION



MODIFICATIONS TO EXISTING
AERATION BASIN INFLUENT STRUCTURE
SCALE: 1/2" = 1'-0"

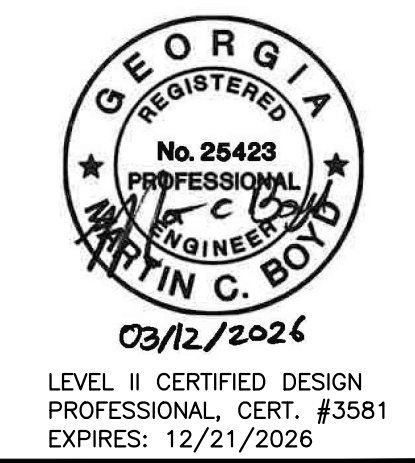
WWTP IMPROVEMENTS
FOR THE
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DATE:	03/16/26
12	



Know what's below.
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MODIFICATION TO EXISTING AERATION BASIN STRUCTURES

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03/16/26	RELEASE FOR BID
03/30/26	ADDENDUM #1

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PROJ. NO.: T7040.003	SHEET NO.:
DATE:	03/16/26
	13

AIR PIPING SCHEDULE		
ITEM	QUAN.	DESCRIPTION
A1	4	4" WAFER STYLE BUTTERFLY VALVE
A2	4	4" FL 90° BEND
A3	1	4" x 4" FL TEE
A4	5	4" MJ 90° BEND
A5	5	4" x 4" MJ TEE
A6	6	4" MJ GATE VALVE AND VALVE BOX

EFFLUENT FORCE MAIN SCHEDULE		
ITEM	QUAN.	DESCRIPTION
E1	2	6" MJ SLEEVE
E2	1	6" MJ TEE
E3	2	6" MJ PLUG VALVE AND VALVE BOX
E4	1	6" x 4" MJ WYE
E5	3	4" MJ 45° BEND
E6	2	4" MJ PLUG VALVE AND VALVE BOX
E7	1	4" MJ TEE
E8	1	4" MJ SLEEVE

LPR INFLUENT		
ITEM	QUAN.	DESCRIPTION
L1	1	8" MJ 45° BEND

LPR BY-PASS		
ITEM	QUAN.	DESCRIPTION
L2	2	8" MJ 90° BEND
L3	2	8" MJ PLUG VALVE AND VALVE BOX

LPR EFFLUENT		
ITEM	QUAN.	DESCRIPTION
L4	2	8" MJ 45° BEND

GRAVITY SEWER		
ITEM	QUAN.	DESCRIPTION
S1	1	8" MJ SLEEVE
S2	2	8" MJ 45° BEND

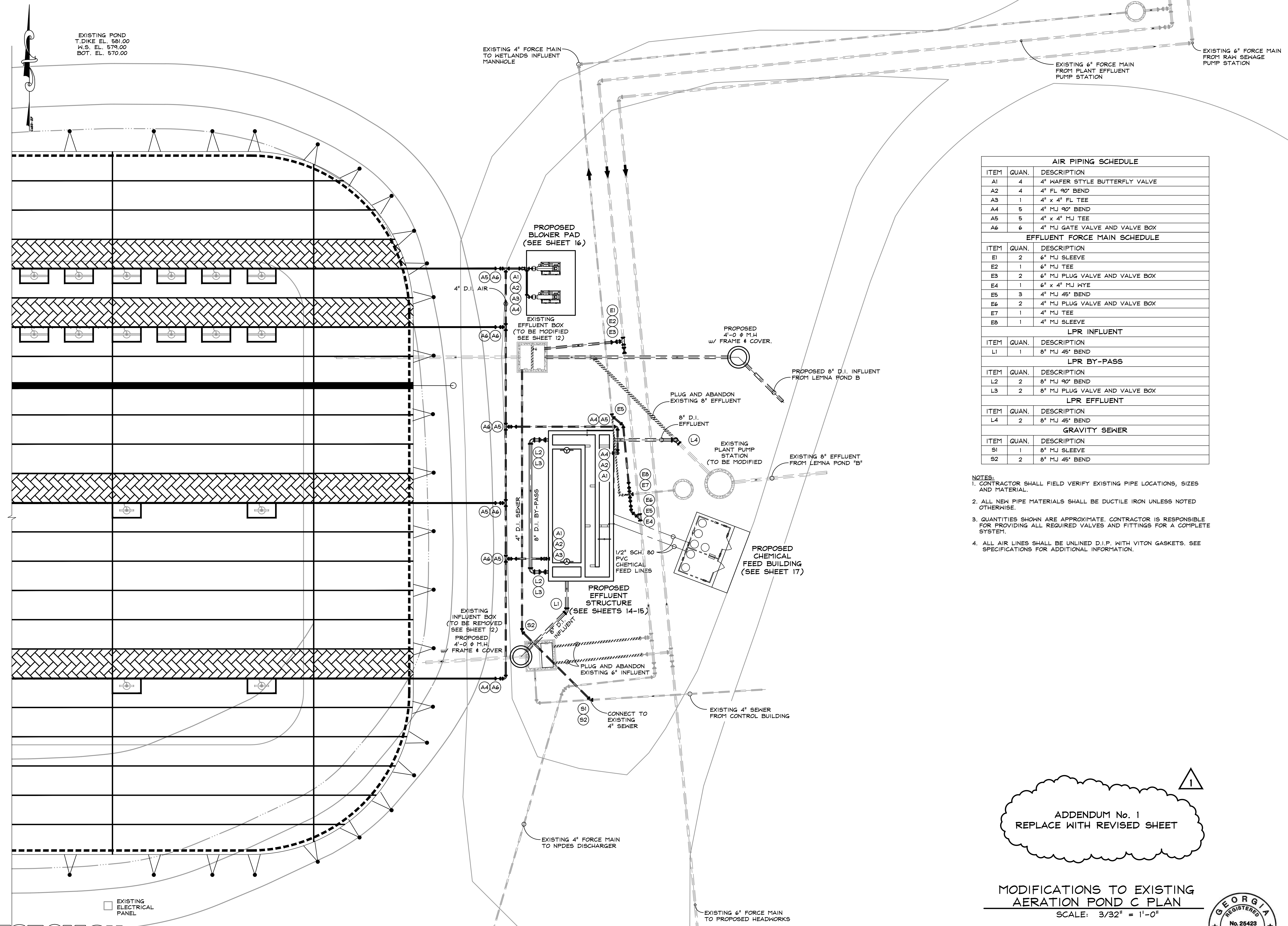
- NOTES:**
- CONTRACTOR SHALL FIELD VERIFY EXISTING PIPE LOCATIONS, SIZES AND MATERIAL.
 - ALL NEW PIPE MATERIALS SHALL BE DUCTILE IRON UNLESS NOTED OTHERWISE.
 - QUANTITIES SHOWN ARE APPROXIMATE. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL REQUIRED VALVES AND FITTINGS FOR A COMPLETE SYSTEM.
 - ALL AIR LINES SHALL BE UNLINED D.I.P. WITH VITON GASKETS. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

ADDENDUM No. 1
REPLACE WITH REVISED SHEET

MODIFICATIONS TO EXISTING
AERATION POND C PLAN
SCALE: 3/32" = 1'-0"



MODIFICATIONS TO EXISTING AERATION BASIN PLAN



NOTE:

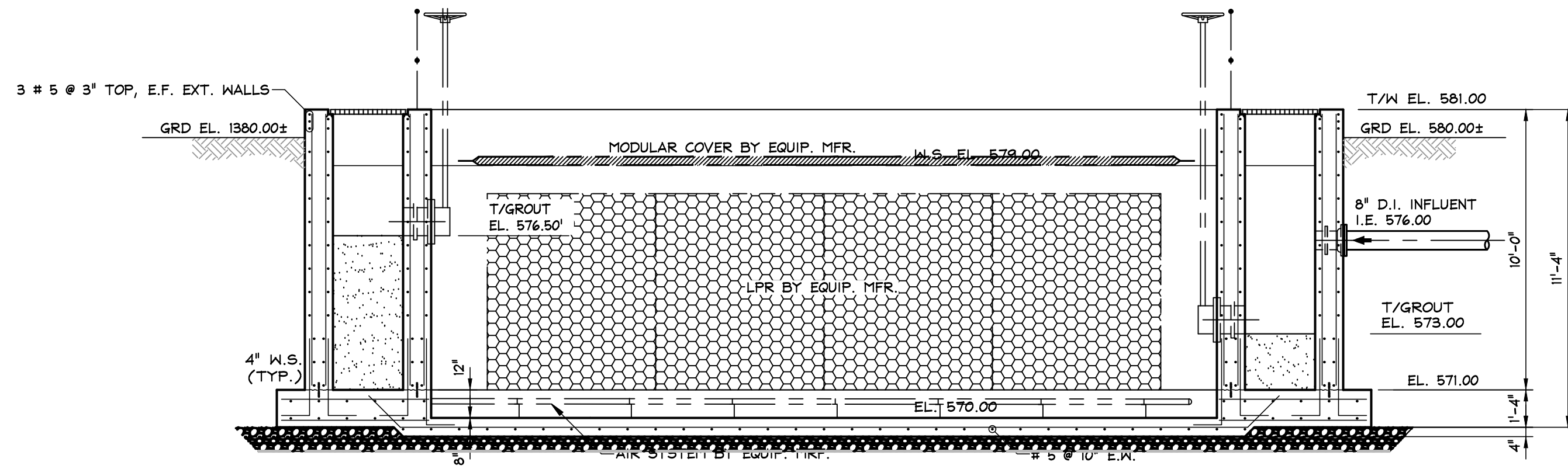
- THE PROPOSED POND MODIFICATIONS SHOWN ARE PROVIDED BY LEYNA ENVIRONMENTAL TECHNOLOGIES, INC., AND ARE REFERENCE ONLY.
- THE ACTUAL LIMITS OF THE EXISTING POND GEOMETRY DIFFER FROM WHAT IS PROPOSED AND WILL BE INSTALLED AS REQUIRED TO PROVIDE A COMPLETE OPERATIONAL SYSTEM.

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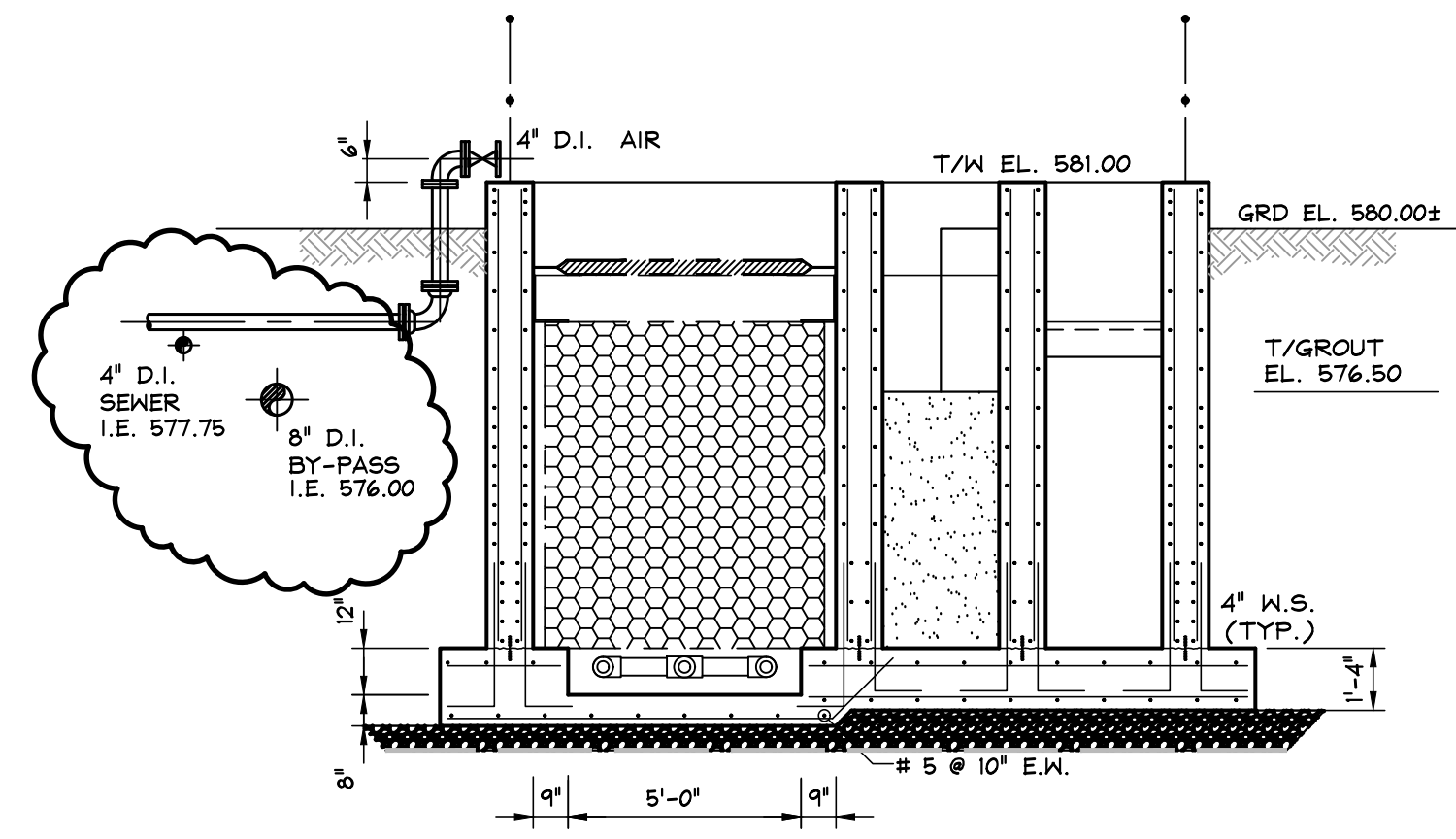
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RELEASES	
03/16/26	RELEASE FOR BID
03/30/26	ADDENDUM #1

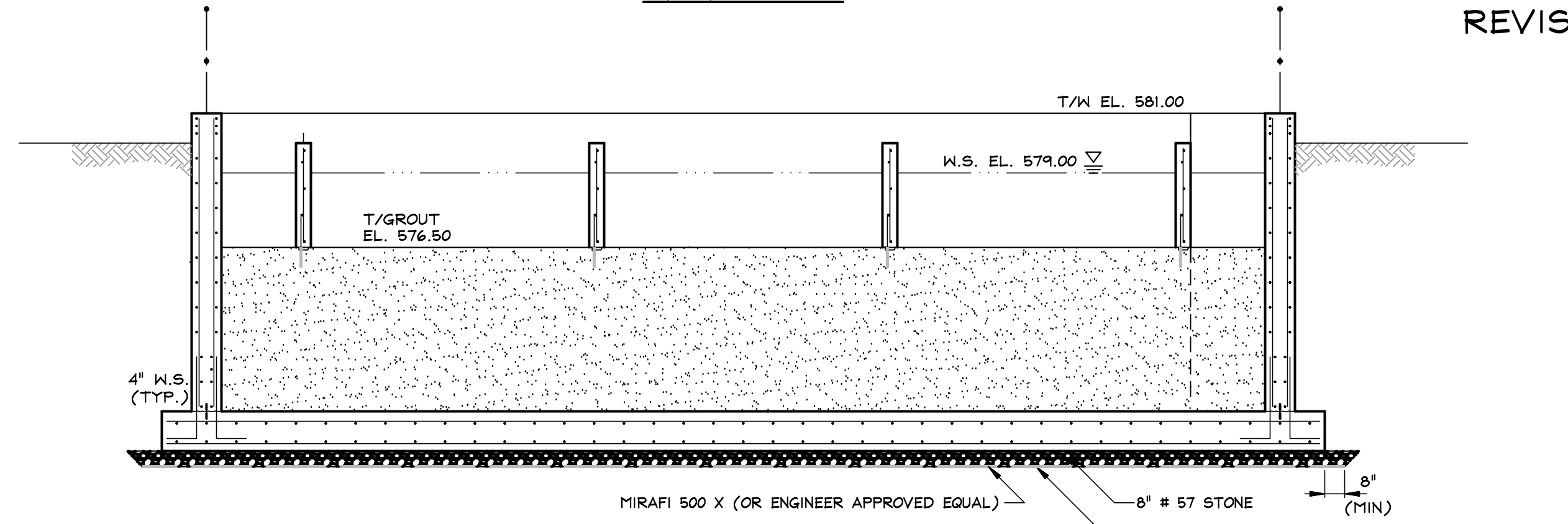


SECTION A-A

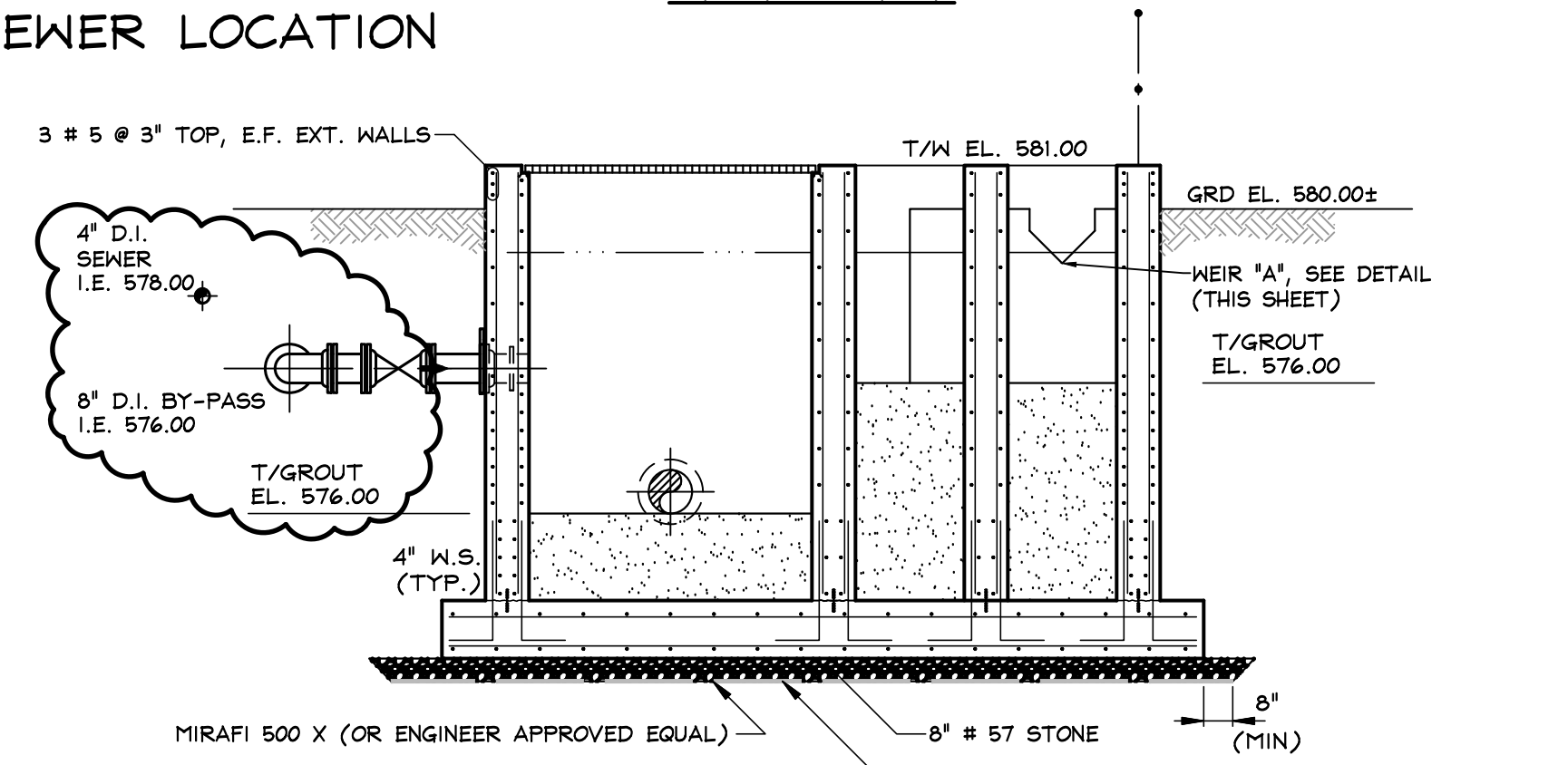


SECTION E-E

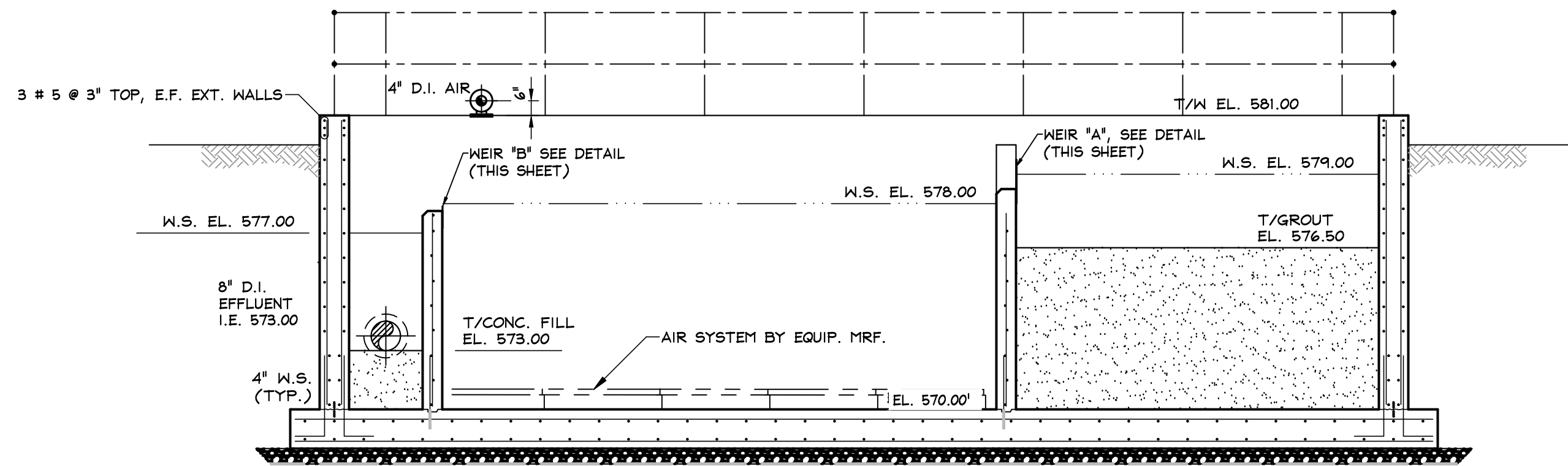
ADDENDUM No. 1
REVISE BY-PASS AND SEWER LOCATION



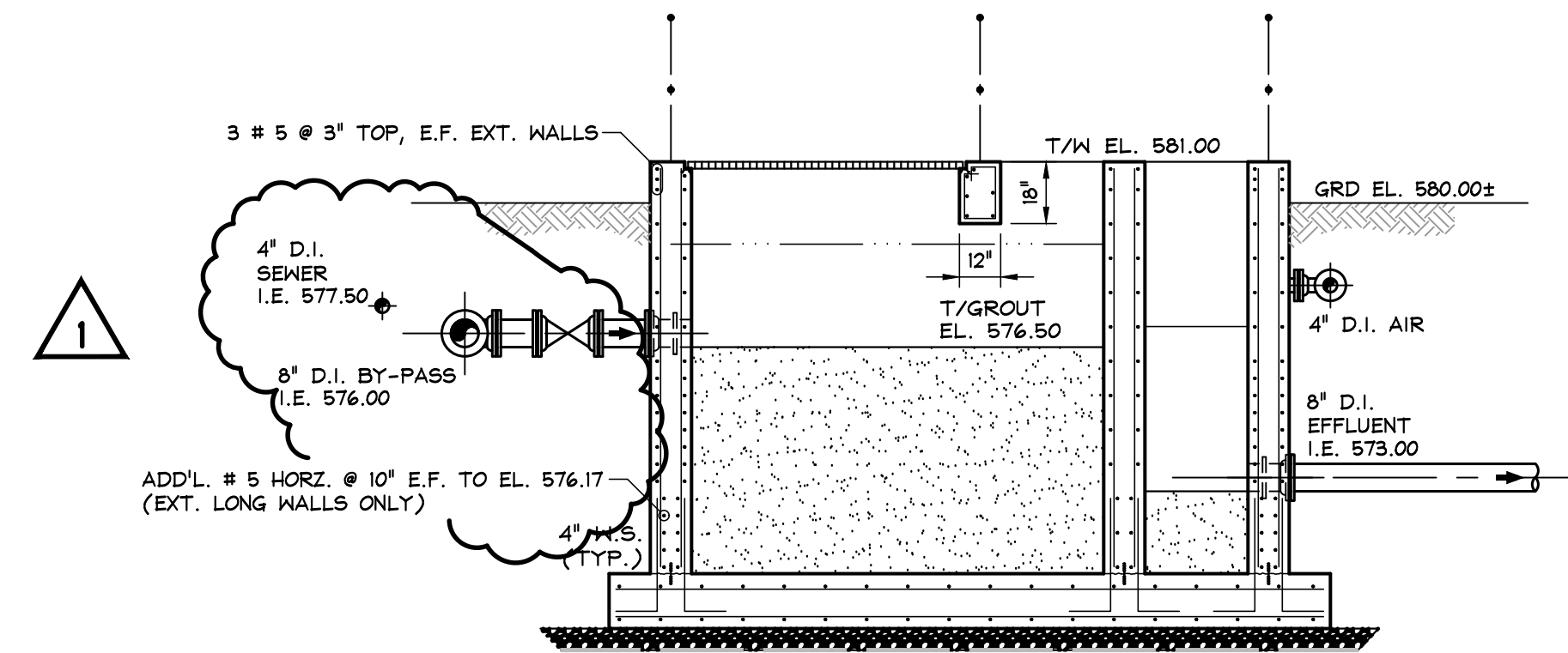
SECTION B-B



SECTION D-D

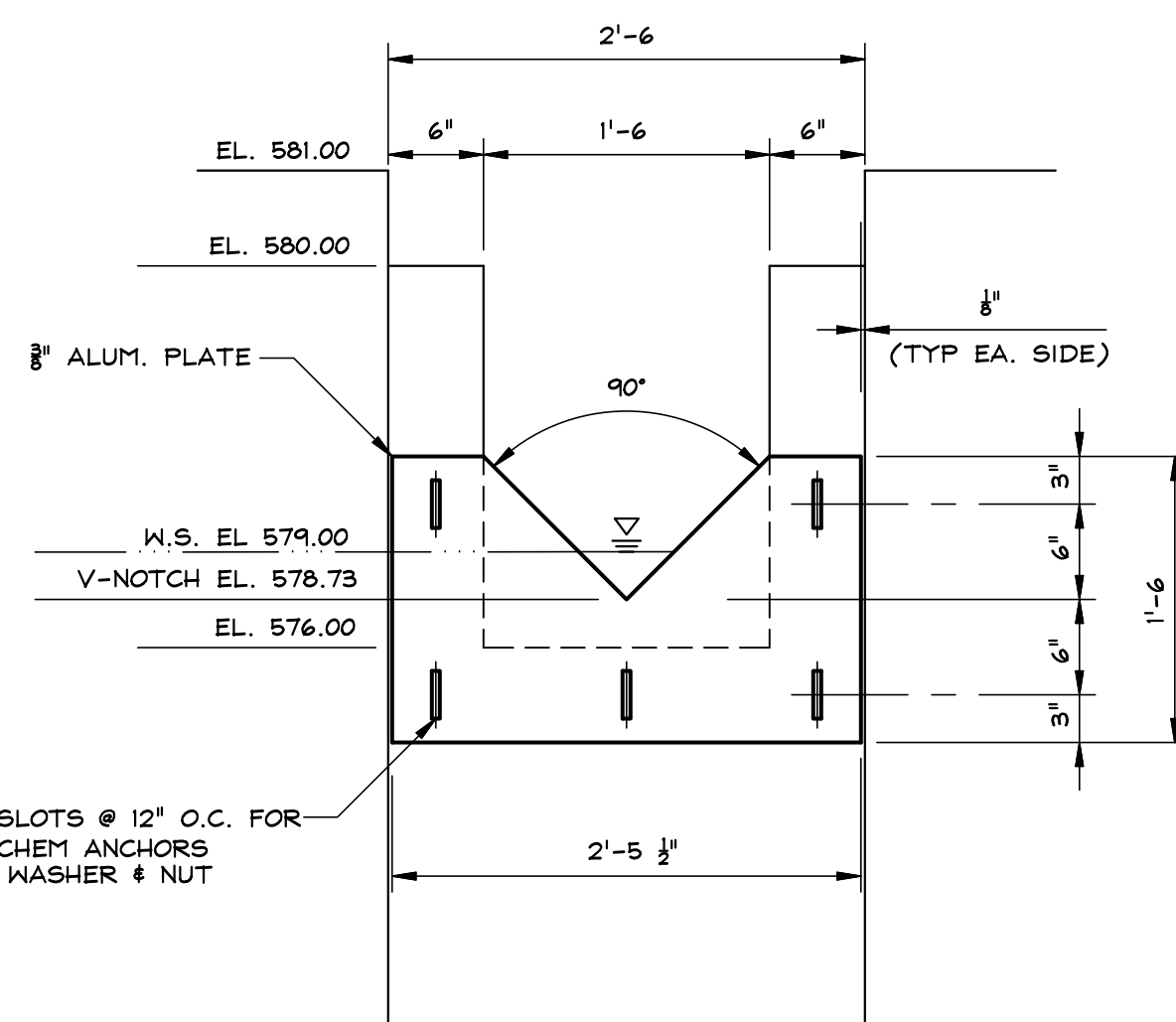


SECTION C-C

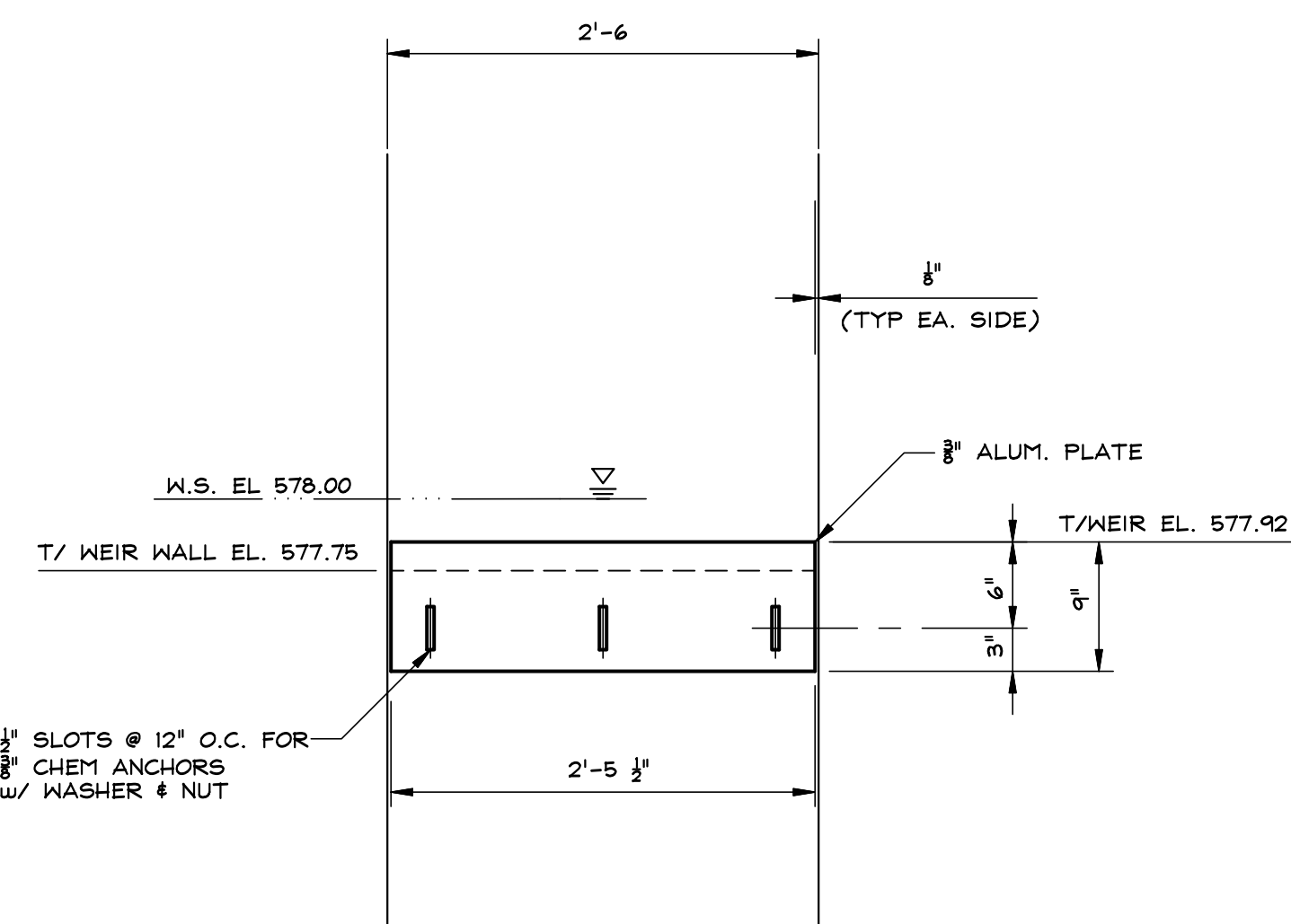


SECTION F-F

- REINF. NOTES:**
- ALL REINF SHALL BE AS LISTED U.N.O.
 - 3" MIN CLR SHALL BE PROVIDED FOR ALL BOT SLAB REINF.
 - 16" BASE SLABS
 - # 6 @ 10" L.W., TOP
 - # 5 @ 10" L.W., BOT
 - # 5 @ 10" S.W., T&B
 - 12" WALLS
 - # 5 DWLS. @ 10" I.F. + ADD'L. WHERE SHOWN
 - # 4 @ 10" E.F., VERT.
 - # 5 @ 10" E.F., HORZ. + ADD'L. WHERE SHOWN
 - 8" WALLS
 - # 4 DWLS. @ 10" w/ 8" EMB
 - # 4 @ 10" VERT.
 - # 4 @ 10" CENTER WALL
 - 6" WALLS
 - # 4 DWLS. @ 10" w/ 5" EMB
 - # 4 @ 10" VERT.
 - # 4 @ 10" CENTER WALL
 - 12" x 18" BEAM
 - 3 # 4 E.F. w/ # 3 TIES @ 8"



WEIR DETAIL "A"
SCALE: 1" = 1'-0"

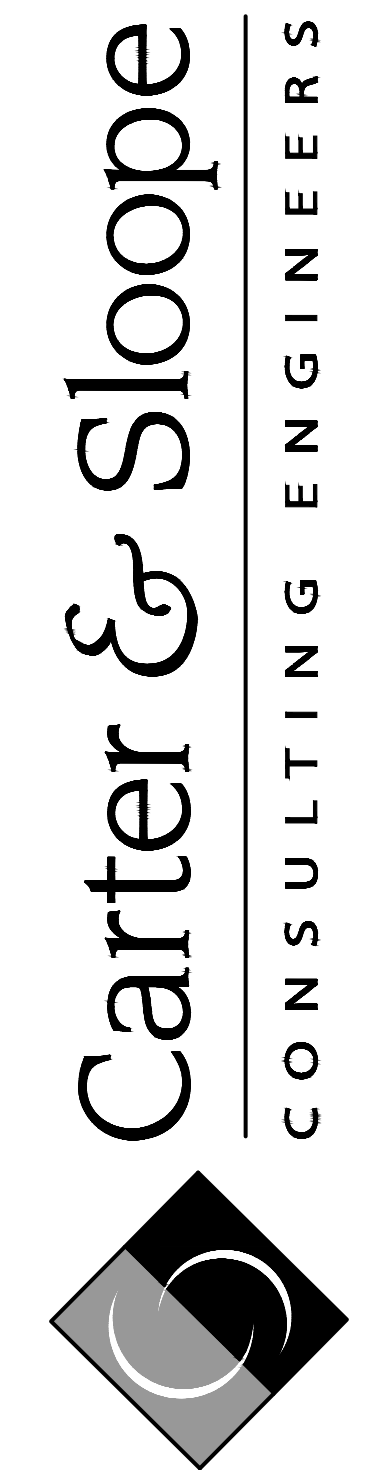


WEIR DETAIL "B"
SCALE: 1" = 1'-0"

PROPOSED AERATION EFFLUENT STRUCTURE SECTION & DETAIL



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DATE: 03/16/26	15

WWTP IMPROVEMENTS
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WILKES COUNTY, GEORGIA

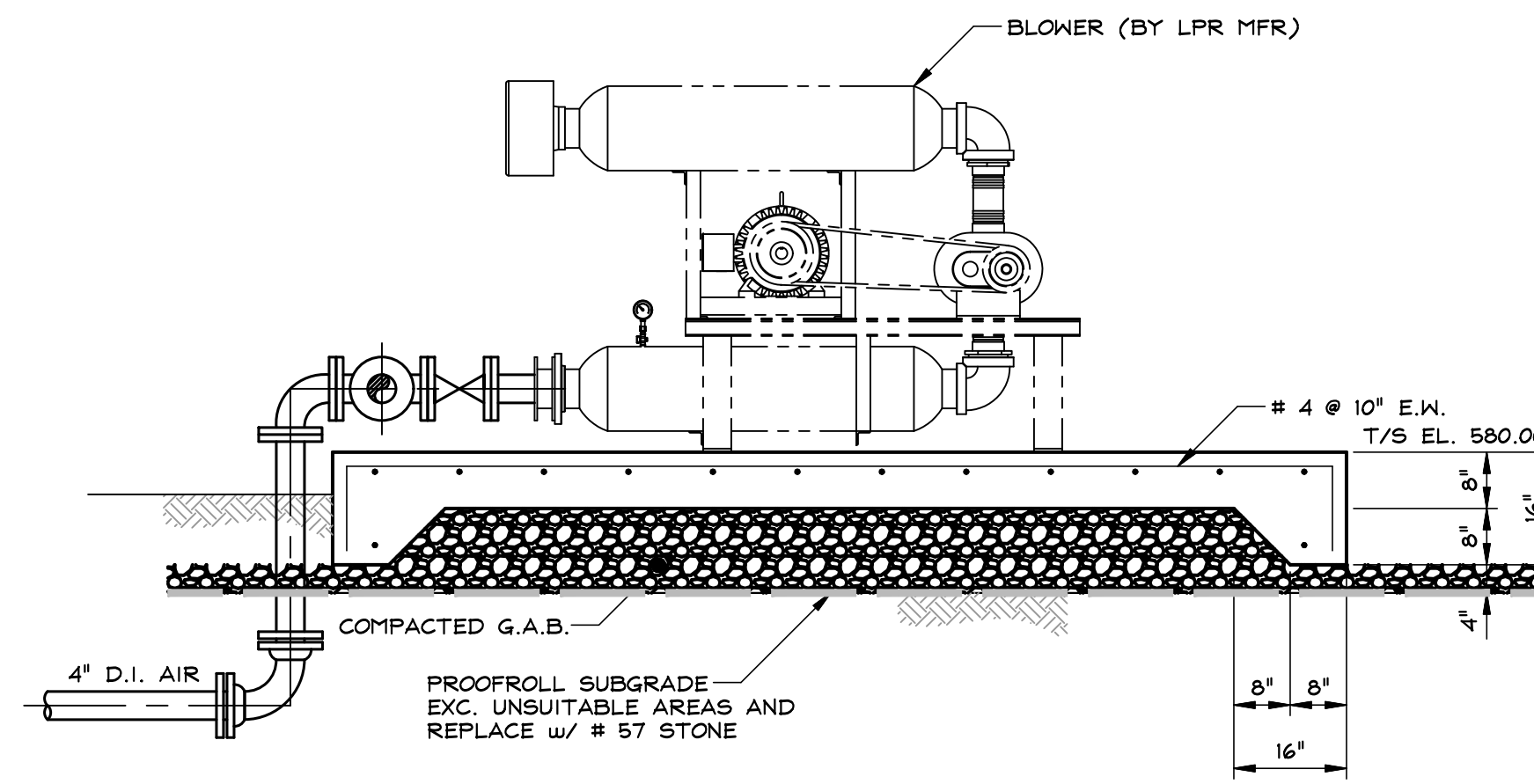
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03/30/26	ADDENDUM #1

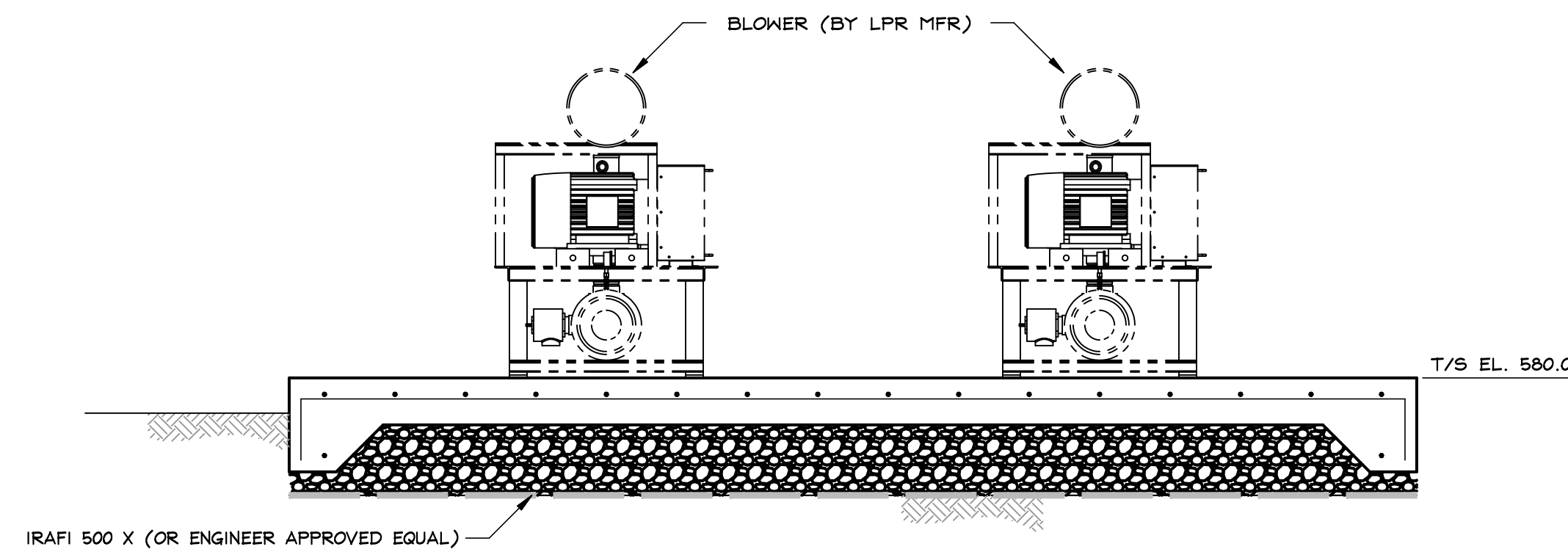
AIR PIPING SCHEDULE		
ITEM	QUAN.	DESCRIPTION
1	4	4" WAFER STYLE BUTTERFLY VALVE
2	4	4" FL 90° BEND
3	1	4" x 4" FL TEE
4	6	4" MJ 90° BEND

NOTES:
 1. ALL M&W PIPE MATERIALS SHALL BE DUCTILE IRON UNLESS NOTED OTHERWISE.
 3. QUANTITIES SHOWN ARE APPROXIMATE. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL REQUIRED VALVES AND FITTINGS FOR A COMPLETE SYSTEM.

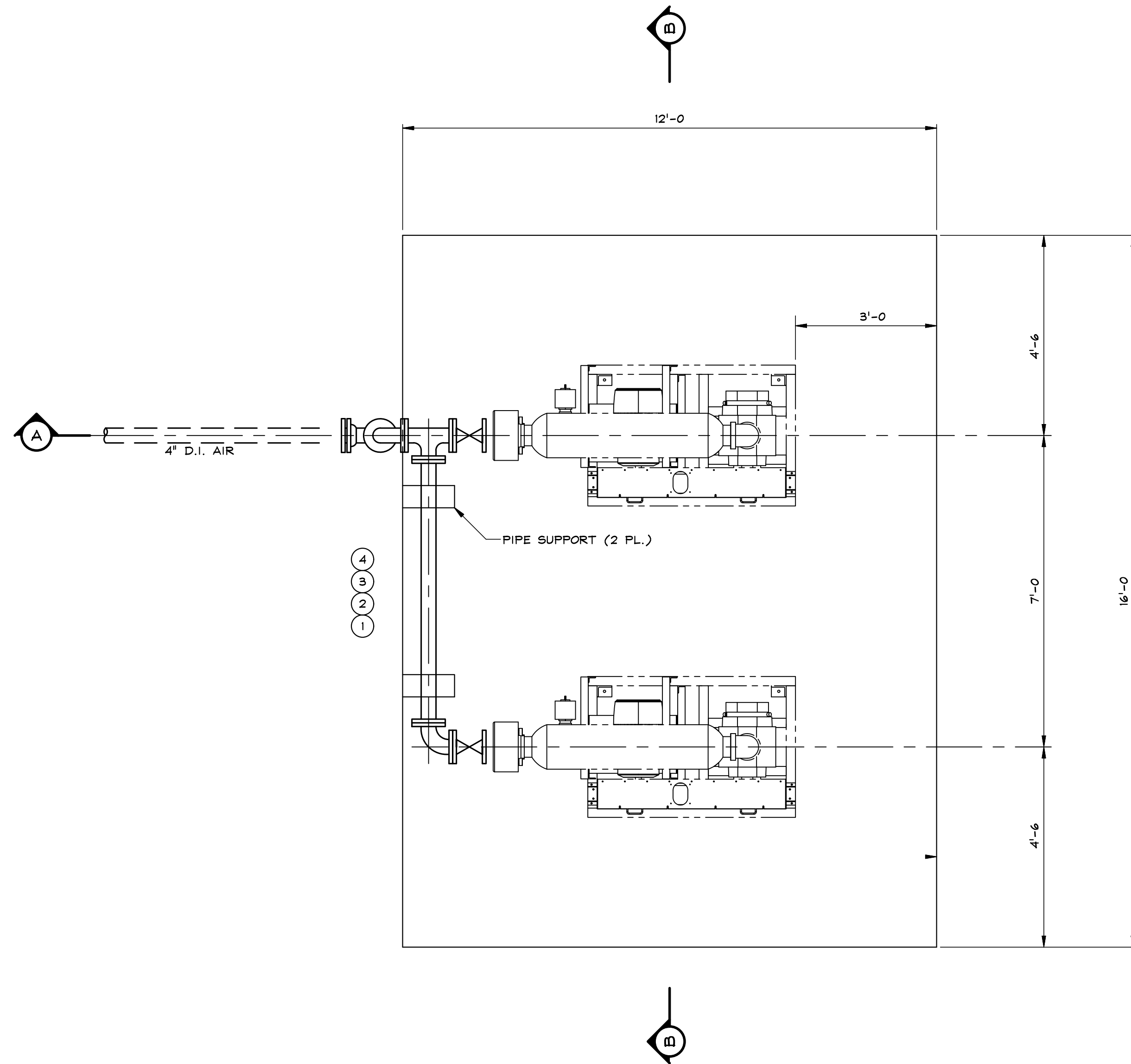
NOTE: BLOWER ENCLOSURE NOT SHOWN FOR CLARITY. (SEE SHEET 22 FOR MANUFACTURE DETAILS)



SECTION A-A



SECTION B-B



PLAN

NOTE: CONTRACTOR SHALL RELOCATE EXISTING CANOPY LOCATED OVER EXISTING CHLORINE SYSTEM AND PLACE OVER BLOWER PAD

1
 ADDENDUM No. 1
 REPLACE WITH REVISED SHEET

BLOWER
 PLANS & SECTIONS
 SCALE: 1/2" = 1'-0"

PROPOSED BLOWER AND CHEMICAL STORAGE PLAN & SECTION



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PROJ. NO.: T7040.003	SHEET NO.:
DATE: 03/16/26	16

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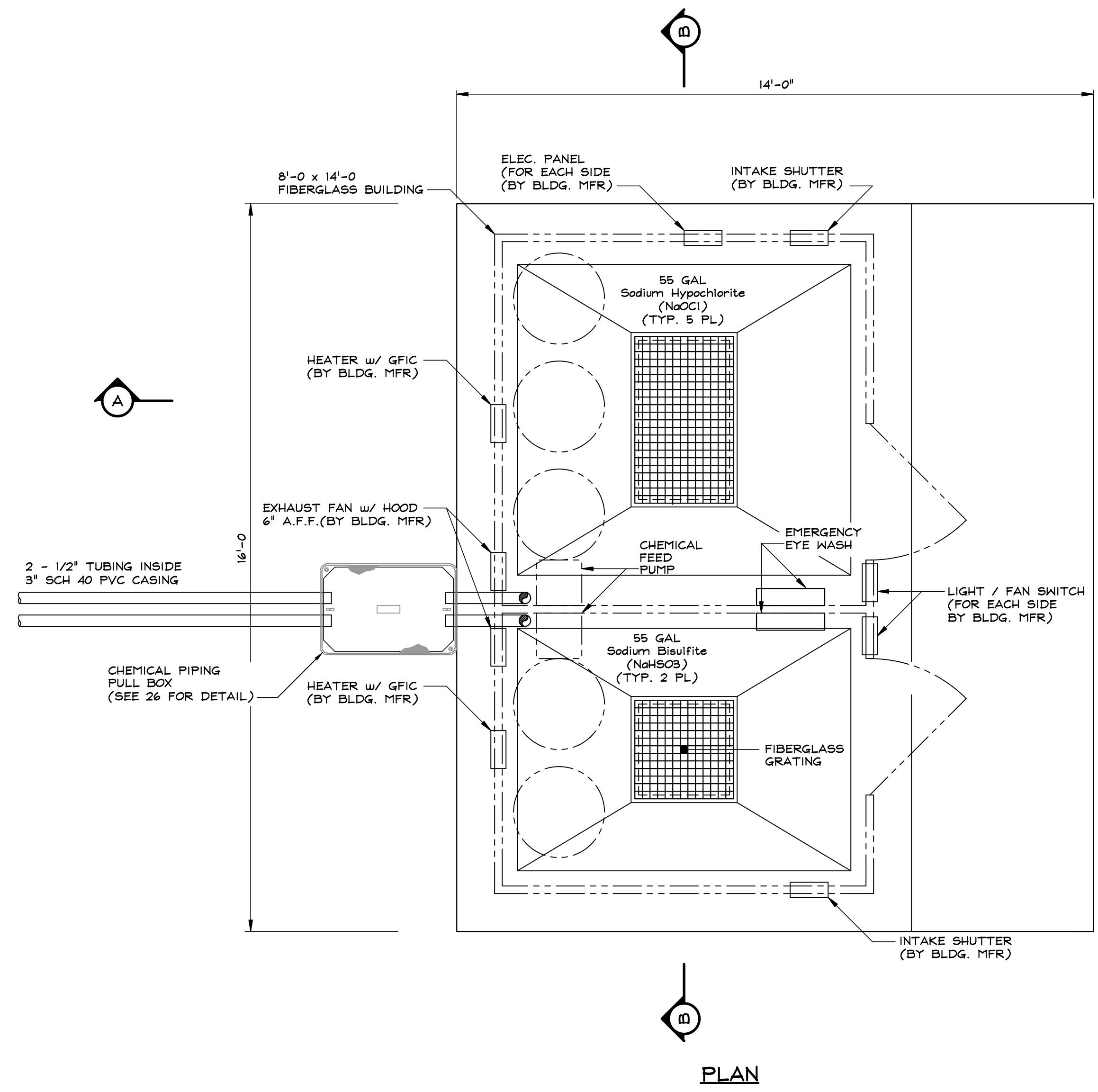
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RELEASES	
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03/30/26	ADDENDUM #1

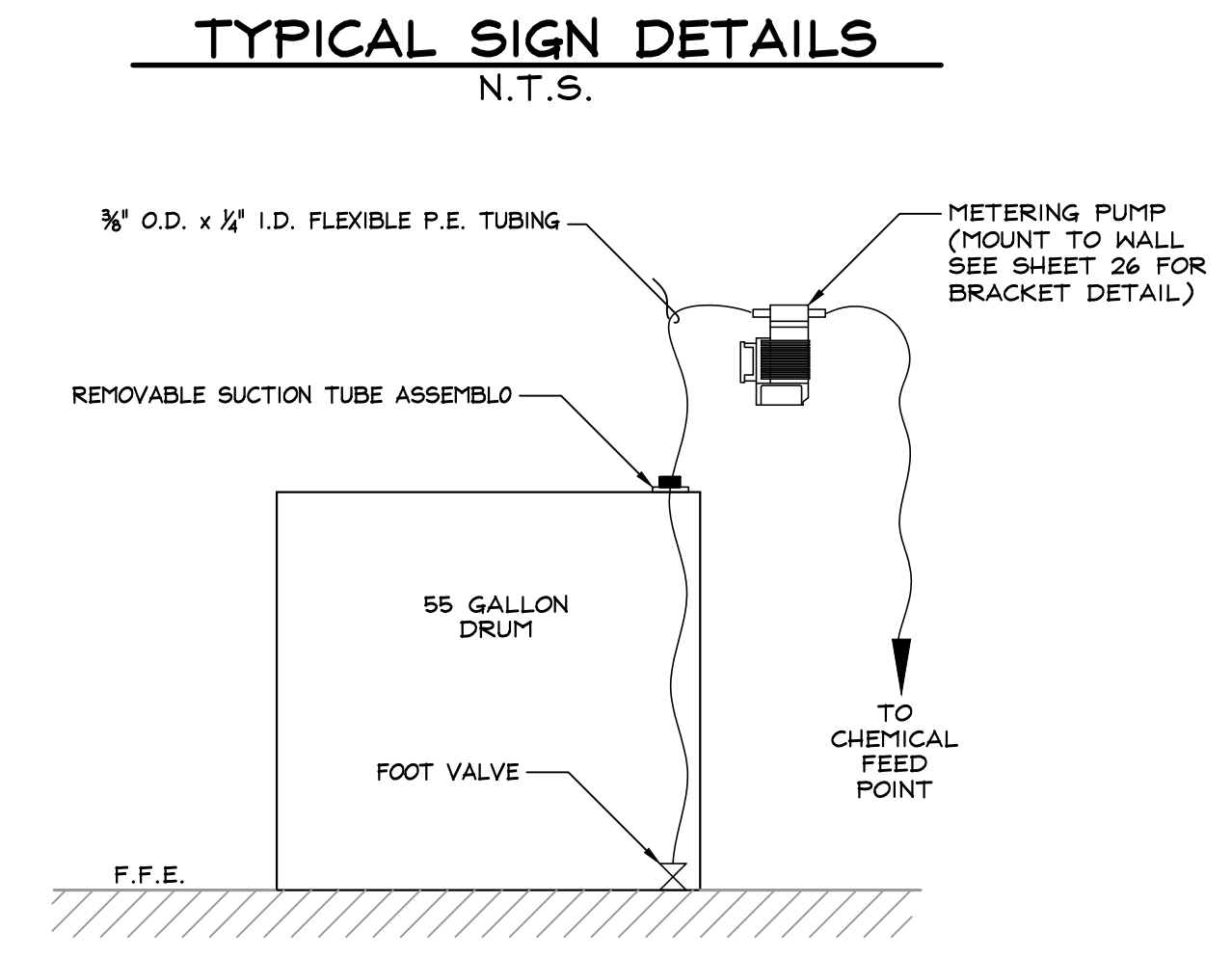
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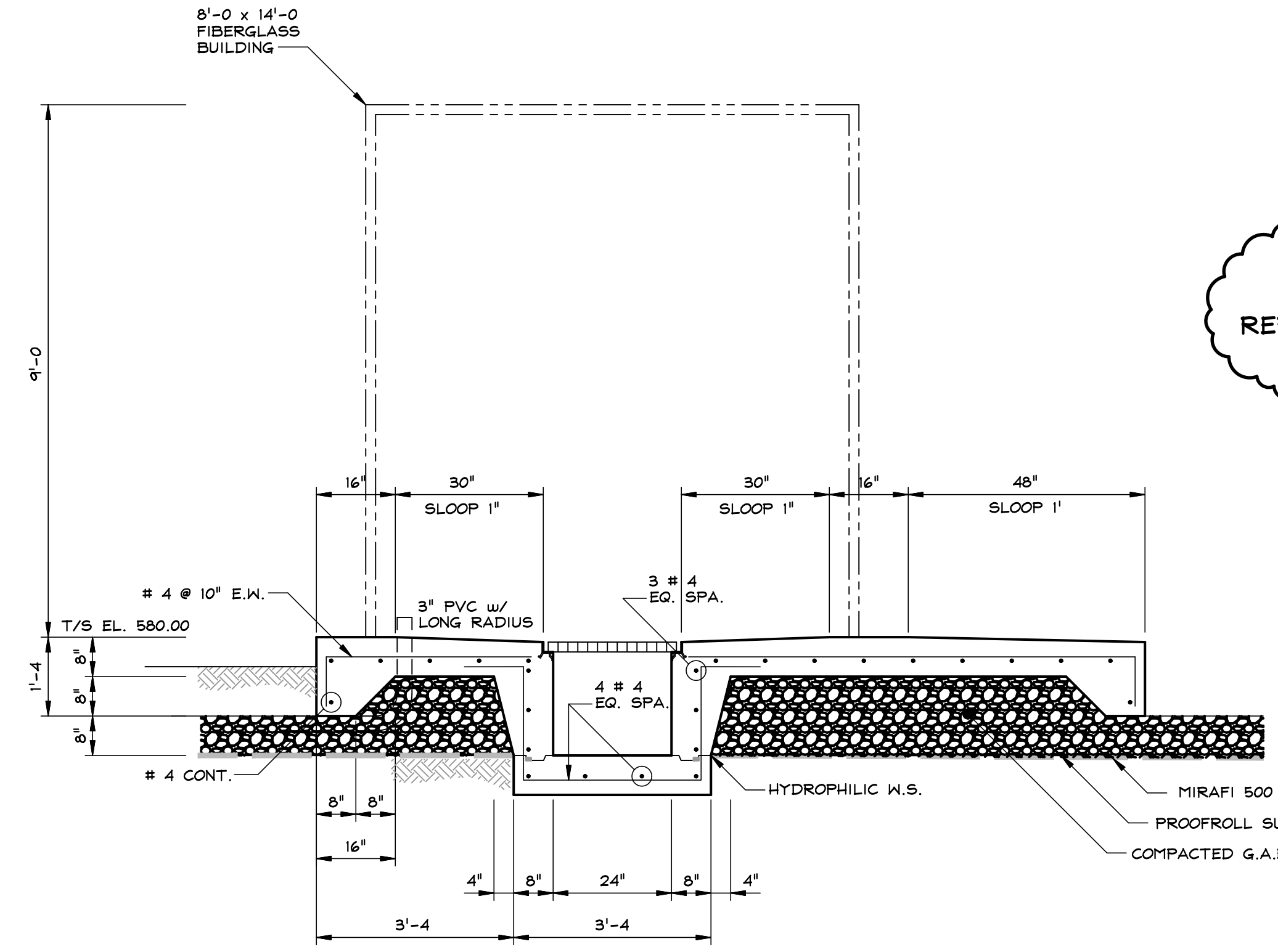
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DSGN: MB	DRWN: JB
SCALE: AS SHOWN	
PROJ. NO.: T7040.003	SHEET NO.:
DATE: 03/16/26	17



- NOTES**
- SEE PLANS & ELEVATION VIEWS FOR LOCATIONS OF SIGNS.
 - CONTRACTOR SHALL PROVIDE ALL MOUNTING HARDWARE FOR MOUNTING SIGNS TO CONCRETE & MASONRY UNITS, GATES, FENCE, POSTS, ETC. AS REQ'D.
 - SIGNS SHALL BE 0.040" THICK ALUMINUM WITH OSHA COLOR SCHEME.

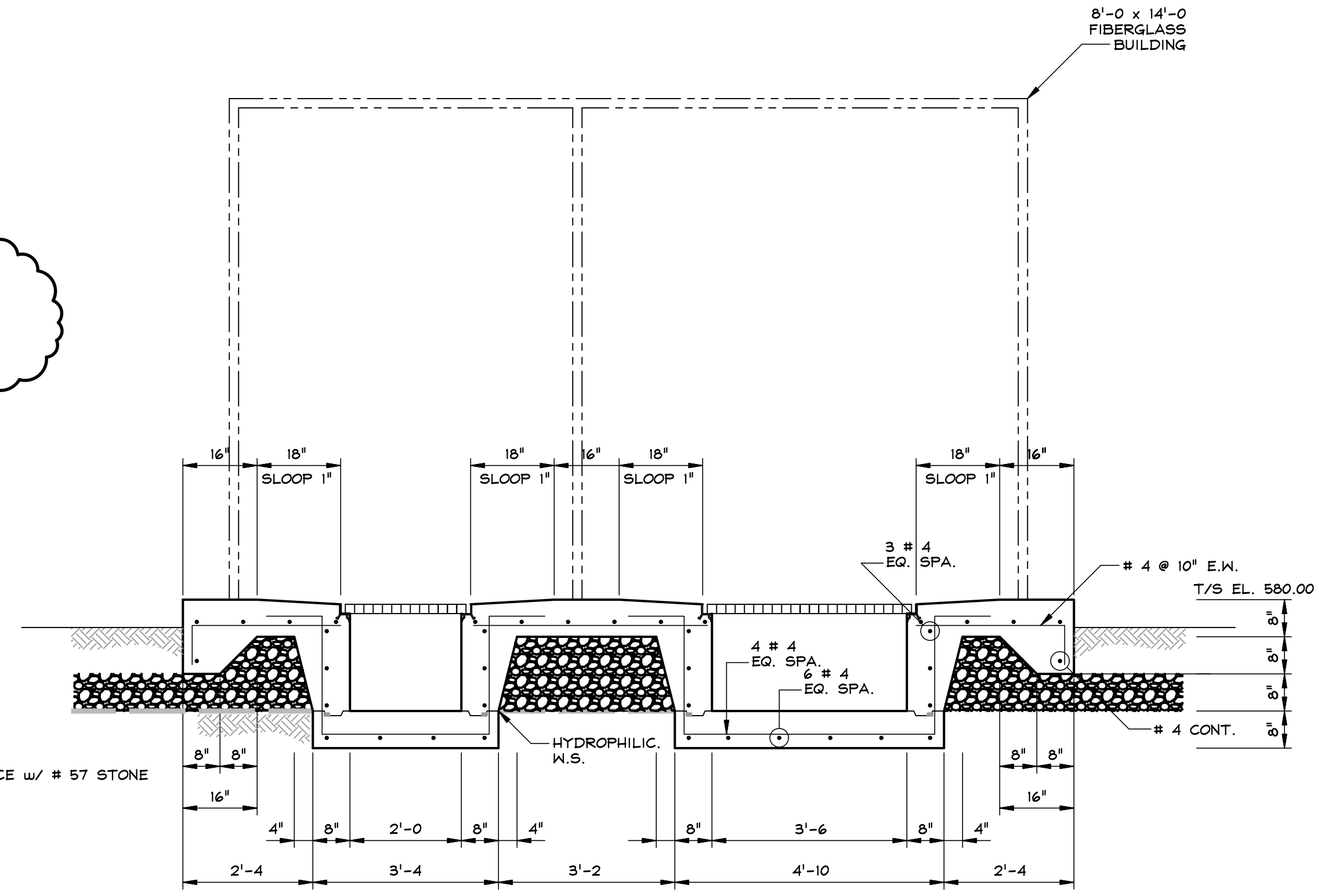


TYPICAL CHEMICAL FEED SCHEMATIC
N.T.S.



SECTION A-A

ADDENDUM No. 1
 REPLACE WITH REVISED SHEET

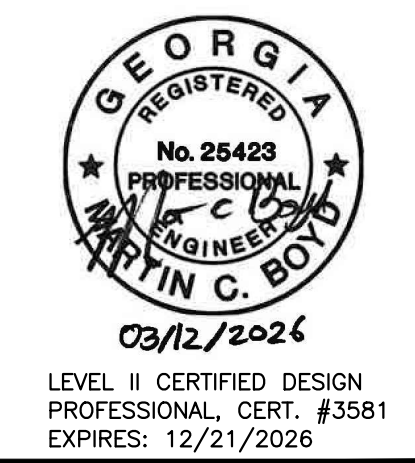


SECTION B-B

**CHEMICAL STORAGE
PLANS & SECTIONS**

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

PROPOSED CHEMICAL STORAGE PLANS & SECTIONS



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- NOTE:
- COVER: R-8 INSULATION, 40mil HDPE
 - THIS DRAWING IS PROVIDED FOR DESIGN PURPOSES. FINAL MODULAR COVER LAYOUT AND BAFFLE FABRICATION DRAWING FOR INSTALLATION PURPOSE WILL BE PROVIDED AFTER REQUIRED SITE SURVEY. MODULAR COVER LAYOUT WILL CHANGE BASED ON SITE CONDITIONS AND LOCATION OF IN-BASIN PIPES AND STRUCTURES. LOCATION OF ALL OTHER EQUIPMENT SUPPLIED BY LEMNA ENVIRONMENTAL TECHNOLOGIES OR ENGINEER APPROVED EQUAL WILL BE BASED ON FINAL MODULAR COVER LAYOUT AFTER SURVEY.
 - AIR HEADER PIPE IS RECOMMENDED TO BE INSTALLED AFTER MODULAR COVER IS INSTALLED. CONTRACTOR MUST ENSURE AIR LATERALS LINE UP WITH MODULAR COVER SEAMS AND AIR HEADER VALVES LOCATIONS.
 - IN INSTANCES WHERE MODULAR COVER IS INSTALLED AFTER AIR PIPE IS IN PLACE, LET WILL LOCATE IT DURING LAGOON SURVEY.
 - ALL PERSONNEL SHALL WEAR OSHA APPROVED PERSONAL FLOTATION DEVICE WHEN WORKING ON WASTEWATER PONDS

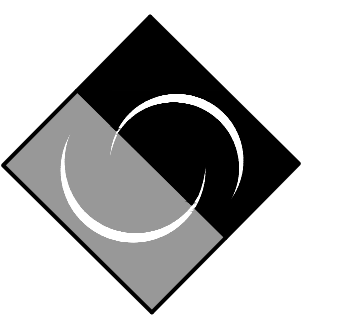
RELEASES	
03/16/26	RELEASE FOR BID
03/30/26	ADDENDUM #1

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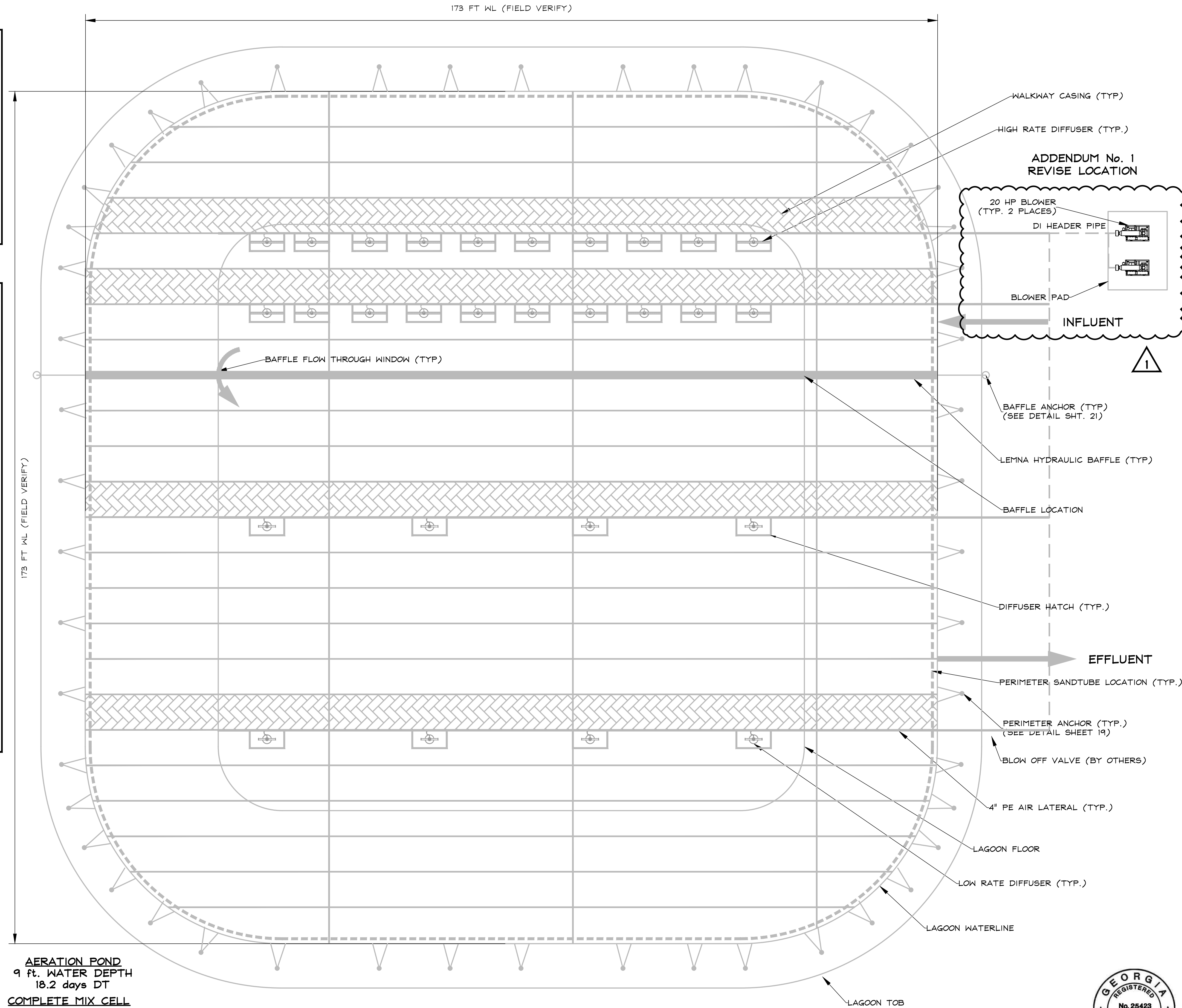
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SCALE: AS SHOWN	
PROJ. NO.: T7040.003	SHEET NO.: 18
DATE: 03/16/26	

GENERAL NOTES:

- SEE SHEET 1 FOR ADDITIONAL CONSTRUCTION NOTES.
- CONTRACTOR SHALL FIELD VERIFY ALL PIPING LOCATION & ELEVATIONS BEFORE BEGINNING CONSTRUCTION.
- EXISTING YARD PIPING IS BASED UPON BEST AVAILABLE INFORMATION. ENGINEER ASSUMES NO RESPONSIBILITY FOR INACCURACIES. CONTRACTOR SHALL INCLUDE IN THEIR BID PRICE ALL EQUIPMENT, MATERIALS, & LABOR TO POT HOLE AND/OR TO USE GROUND PENETRATING RADAR TO LOCATE EXISTING UTILITIES. ANY UTILITIES FOUND SHALL BE NOTED ON "AS-BUILTS".
- THE CONTRACTOR MAY USE WATER FROM THE ON-SITE HOSE BIBS. THE WATER LINE WILL BE METERED AND THE OWNER WILL PROVIDE A WATER METER TO BE INSTALLED BY THE CONTRACTOR. A RPZ BACKFLOW PREVENTER MUST BE FURNISHED AND INSTALLED BY THE CONTRACTOR IF POTABLE WATER IS TO BE USED.

DREDGING & DEWATERING NOTES:

- CONTRACTOR MAY USE MECHANICAL OR HYDRAULIC DREDGING METHODS TO REMOVE ACCUMULATED SLUDGE FROM THE COMPLETE MIX AERATION POND. THE SLUDGE SHALL BE REMOVED AND MAY BE TRANSPORTED TO THE IDENTIFIED STAGING AREA ONSITE FOR DEWATERING. CONTRACTOR SHALL DEWATER THE SLUDGE TO SPECIFIED CAKE SOLIDS PERCENTAGE. CONTRACTOR SHALL PROVIDE NECESSARY EQUIPMENT AND CONTAINERS TO TRANSPORT THE DEWATERED SLUDGE TO AN APPROVED LANDFILL. IN ORDER TO PREVENT UNINTENTIONAL SPILLAGE OF SPOIL MATERIAL DURING TRANSPORTATION, TRUCK BED/TRAILER TAILGATES SHALL BE EQUIPPED WITH A GASKET AND A PNEUMATIC ACTUATOR AND LOCKING MECHANISM, OR A LATCH WITH CLEVIS AND BRACKET ENHANCED WITH EITHER TURNBUCKLES OR CHAIN AND BINDER TO ASSURE A POSITIVE SEAL OF THE TAILGATE TO THE BED/TRAILER.
- CONTRACTOR MUST PROTECT THE CLAY LINER DURING DREDGING OPERATIONS. ANY DAMAGE TO THE LINER MUST BE REPAIRED BY THE CONTRACTOR.
- THE CONTRACTOR SHALL, EITHER THROUGH USE OF TEMPORARY BAFFLES OR BY CLOSING THE STRUCTURE'S SHEAR GATES, ENSURE THAT EFFLUENT LEAVING THE LAGOON REMAINS REASONABLY FREE OF SOLIDS THAT MAY BE STIRRED UP DURING DREDGING.
- THE CONTRACTOR IS RESPONSIBLE FOR RETURNING ALL WATER REMOVED DURING DREDGING INTO THE PLANT PUMP STATION.
- CONTRACTOR IS RESPONSIBLE FOR HAUL-OFF AND DISPOSAL OF ALL DREDGED MATERIAL.
- THE CONTRACTOR SHALL FURNISH ALL NECESSARY EQUIPMENT, PIPING, VALVES, ETC. REQUIRED TO DREDGE THE MATERIAL FROM THE POND AND TRANSPORT IT TO THE DEWATERING LOCATION. THE CONTRACTOR SHALL ENSURE THAT THE DRIVEWAY IS UNOBSTRUCTED AT ALL TIMES DURING WASTEWATER TREATMENT PLANT OPERATIONS.
- THE CONTRACTOR IS REQUIRED TO PROVIDE NECESSARY POWER SUPPLY FOR ALL PUMPING AND DREDGING.
- WHILE DREDGING OPERATIONS ARE TAKING PLACE, THE CONTRACTOR SHALL MAINTAIN FULL ACCESS ON ROADS TO THE WASTEWATER TREATMENT PLANT AND ALL SURROUNDING ROADS.



AERATION POND
9 ft. WATER DEPTH
18.2 days DT

COMPLETE MIX CELL
5.2 days DT

SETTLING CELL
13.0 days DT

AERATION POND LAYOUT
SCALE: 3/32" = 1'-0"±

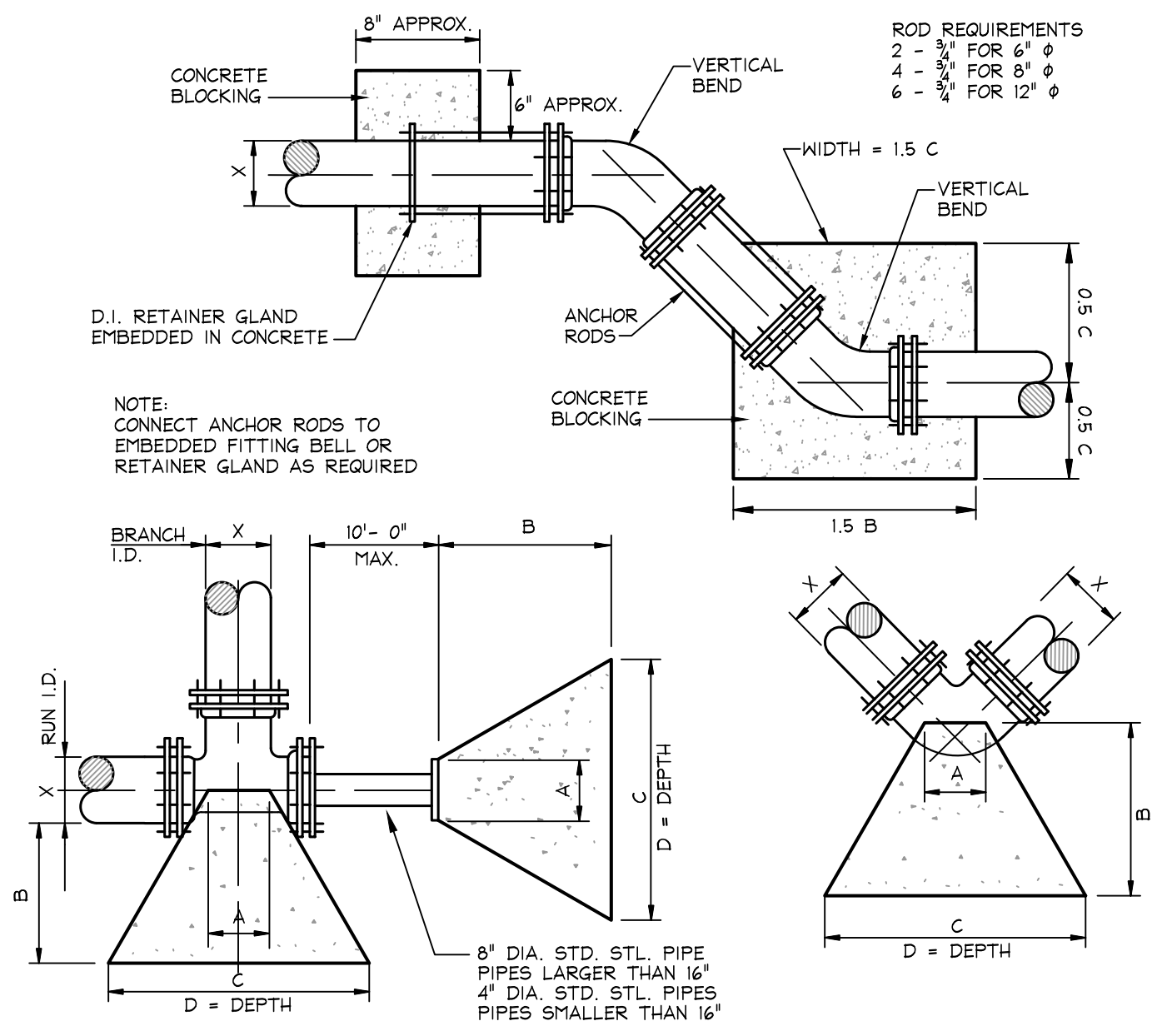
MODIFICATIONS TO EXISTING AERATION BASIN LAYOUT



LEMNA ENVIRONMENTAL TECHNOLOGIES, INC.
4215 WHITE BEAR PARKWAY, SUITE 200 • VADNAIS HEIGHTS, MN 55110
PHONE: 612-253-2000 FAX: 612-253-2003 WWW.LEMNA TECHNOLOGIES.COM

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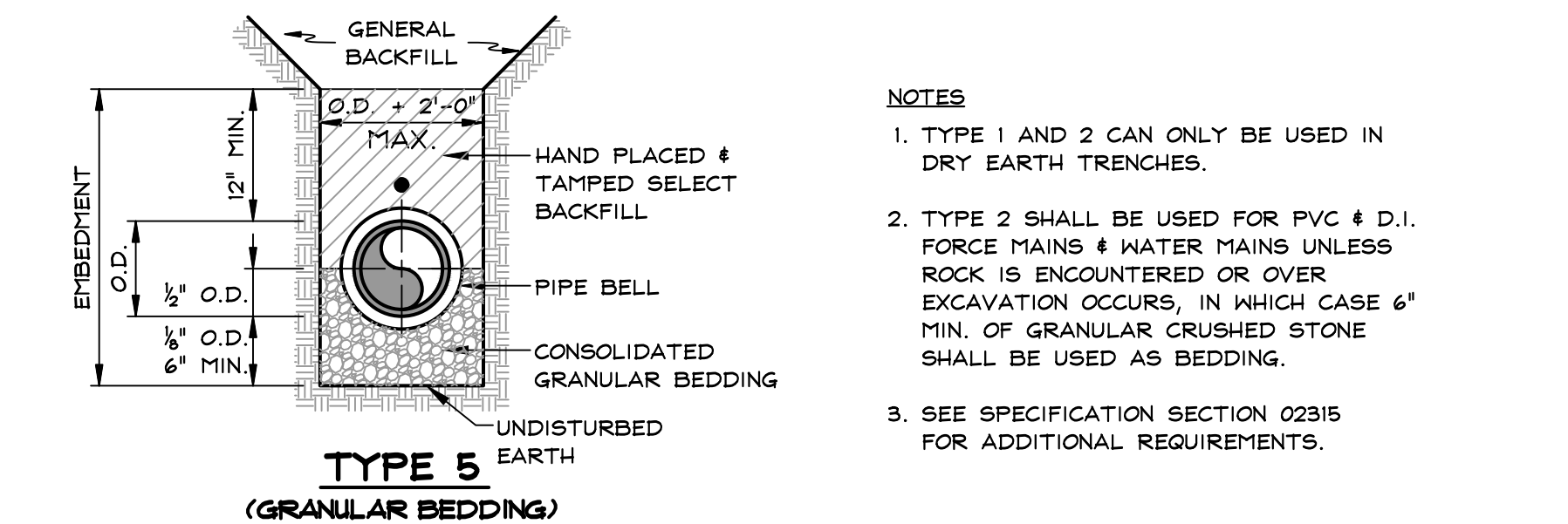
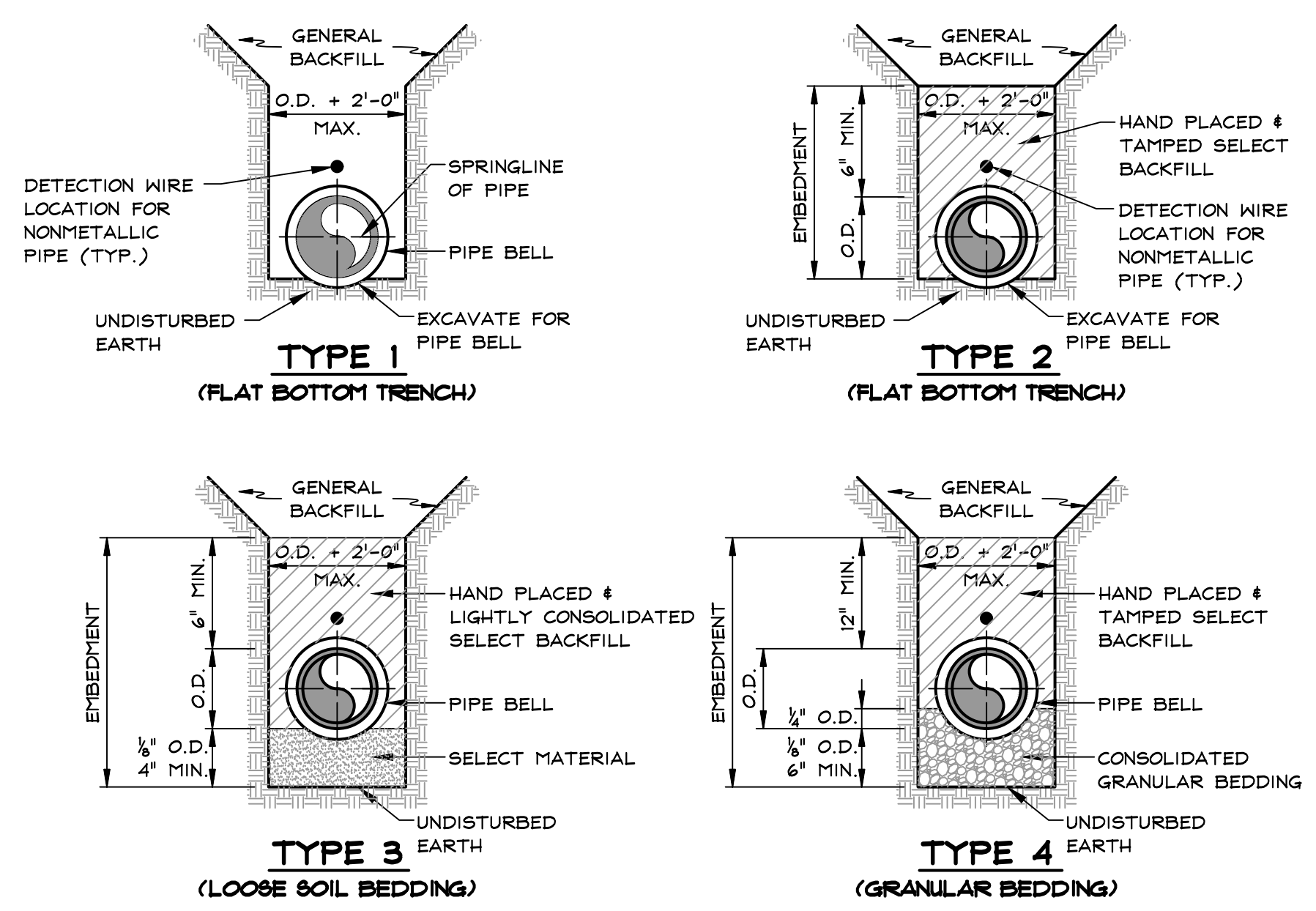
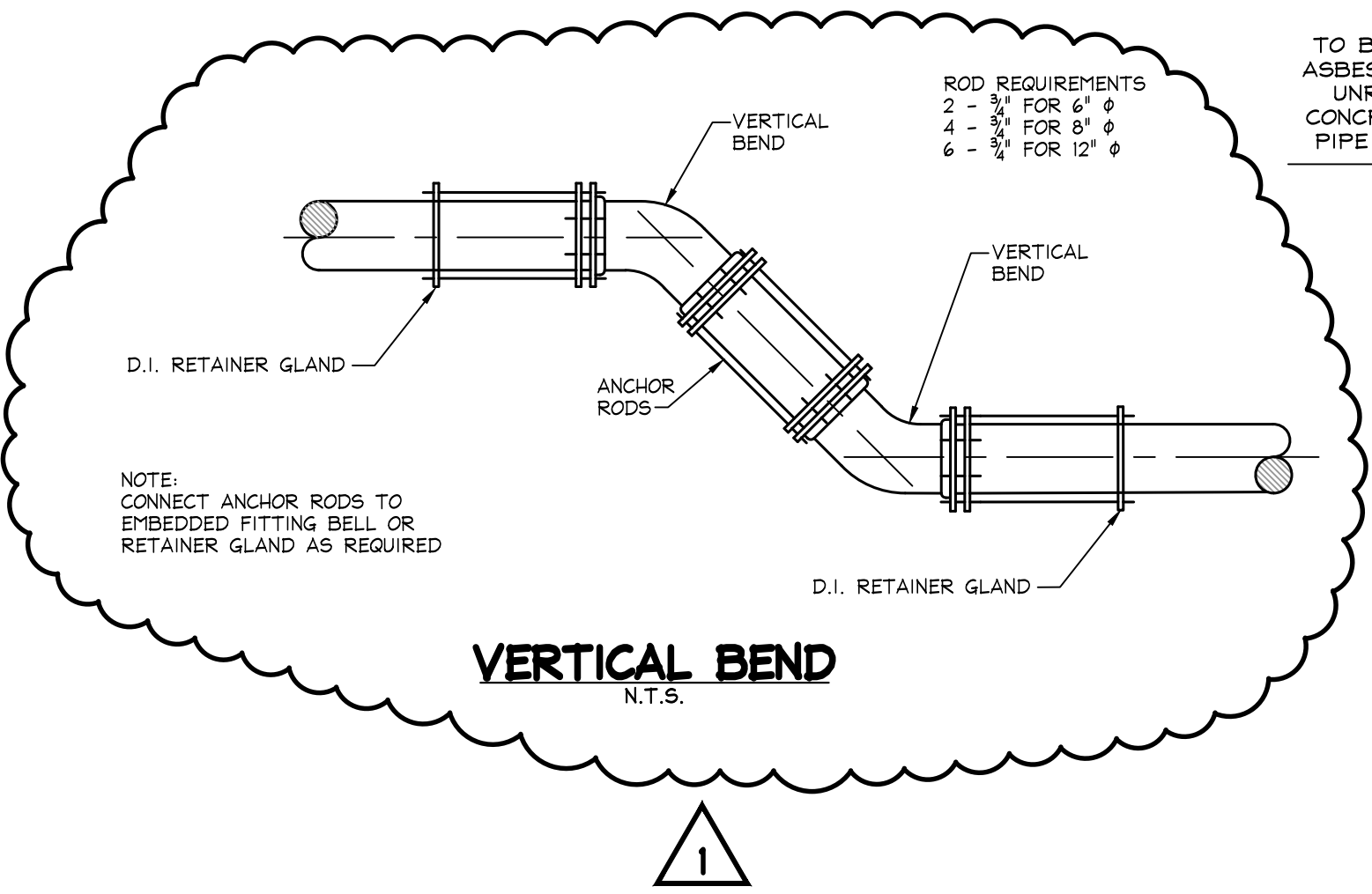
RELEASES	
03/16/26	RELEASE FOR BID
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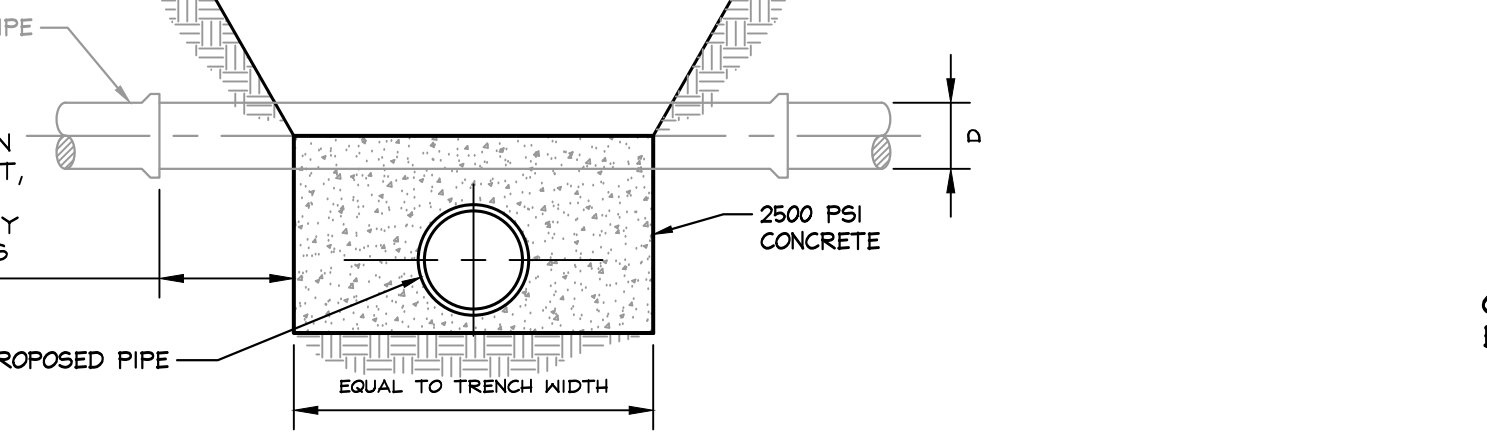
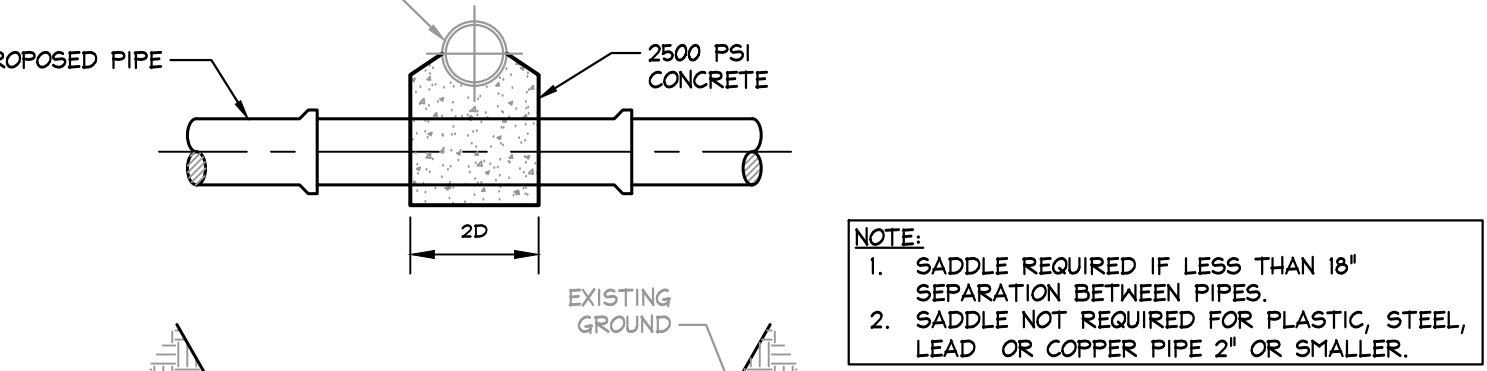
BLOCKING DIMENSIONS										
BENDS	BENDS				BENDS				11-1/2" BEND	
	X	A	B	C	D	X	A	B		C
90° BEND	30"	2'-0"	11'-4"	15'-3"	6'-0"	30"	1'-0"	2'-10"	4'-3"	3'-0"
	24"	2'-0"	7'-9"	10'-9"	5'-6"	24"	1'-0"	2'-6"	3'-8"	2'-6"
	20"	1'-9"	6'-0"	8'-6"	5'-0"	20"	10"	2'-0"	3'-0"	2'-0"
	16"	1'-3"	4'-0"	6'-0"	4'-6"	16"	8"	1'-8"	2'-6"	1'-6"
	12"	10"	2'-9"	4'-0"	4'-0"	12"	8"	1'-0"	1'-6"	1'-6"
	10"	10"	2'-6"	3'-9"	3'-0"	10"	10"	1'-0"	1'-6"	1'-0"
45° BEND	30"	1'-6"	7'-6"	10'-0"	5'-0"	30"	3'-0"	8'-9"	13'-0"	5'-0"
	24"	1'-3"	5'-9"	8'-0"	4'-0"	24"	2'-6"	7'-3"	10'-9"	3'-9"
	20"	1'-0"	4'-9"	6'-8"	3'-6"	20"	2'-0"	5'-3"	8'-0"	3'-6"
	16"	1'-3"	3'-3"	5'-0"	3'-3"	16"	1'-0"	4'-8"	6'-4"	3'-0"
	12"	10"	1'-9"	3'-0"	2'-9"	12"	10"	2'-9"	4'-6"	2'-6"
	10"	10"	1'-9"	3'-0"	2'-9"	10"	10"	2'-0"	3'-3"	2'-6"
22-1/2° BEND	30"	1'-0"	4'-8"	6'-4"	4'-0"	30"	8"	1'-9"	2'-6"	2'-0"
	24"	1'-0"	3'-0"	5'-0"	3'-6"	24"	8"	1'-3"	2'-0"	1'-6"
	20"	1'-0"	2'-6"	4'-4"	3'-0"	20"	6"	1'-0"	1'-6"	1'-6"
	16"	1'-0"	1'-9"	3'-0"	2'-6"	16"	6"	1'-0"	1'-6"	1'-6"
	12"	10"	1'-3"	2'-3"	2'-0"	12"	6"	1'-0"	1'-6"	1'-6"
	10"	10"	1'-0"	2'-0"	1'-6"	10"	6"	1'-0"	1'-6"	1'-6"

NOTE: 200 P.S.I. TEST PRESSURE SOIL BEARING OF 2500 P.S.F. 3000 P.S.I. CONCRETE PIPE LESS THAN 4" IN DIAMETER SHALL HAVE THE SAME REQUIREMENTS AS 4" DIAMETER PIPE

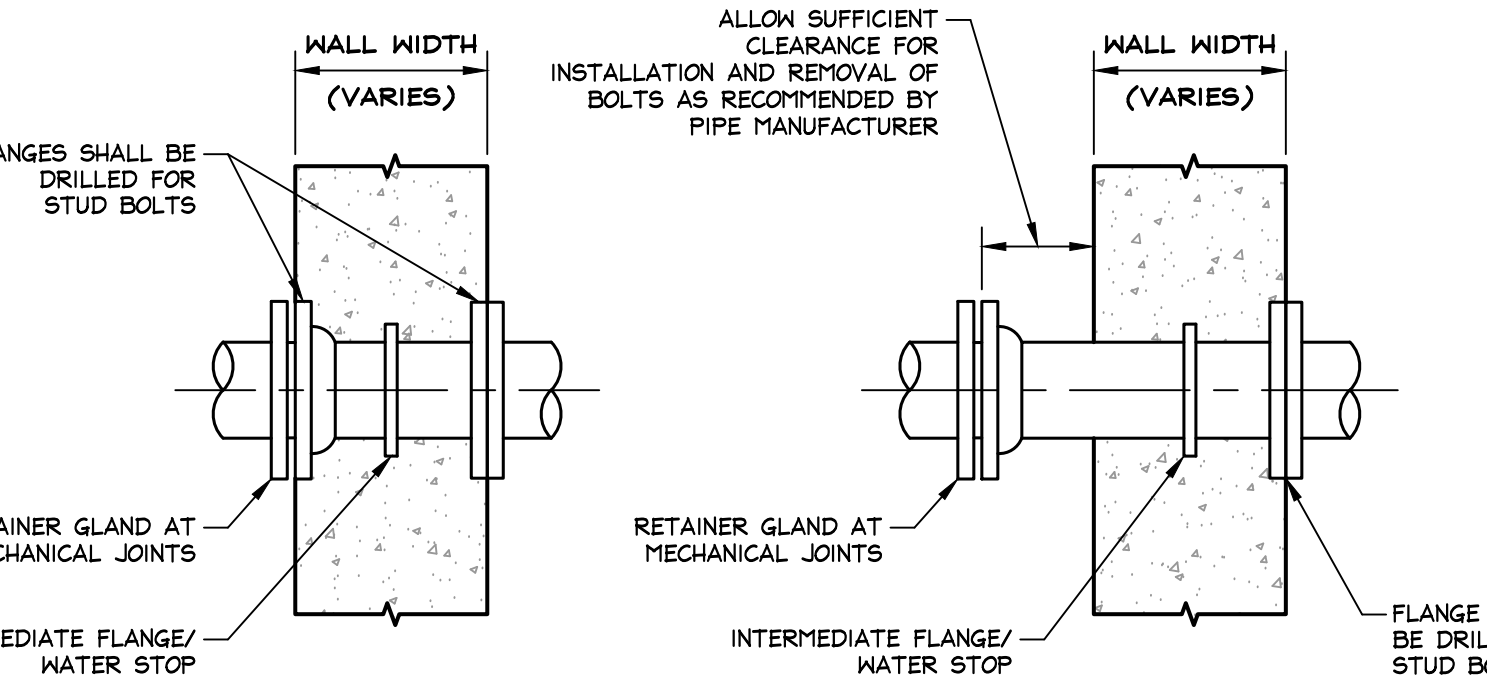
THRUST BLOCK
N.T.S.



PIPE BEDDING AND HAUNCHING DETAILS
GRAVITY AND PRESSURE PIPES
N.T.S.

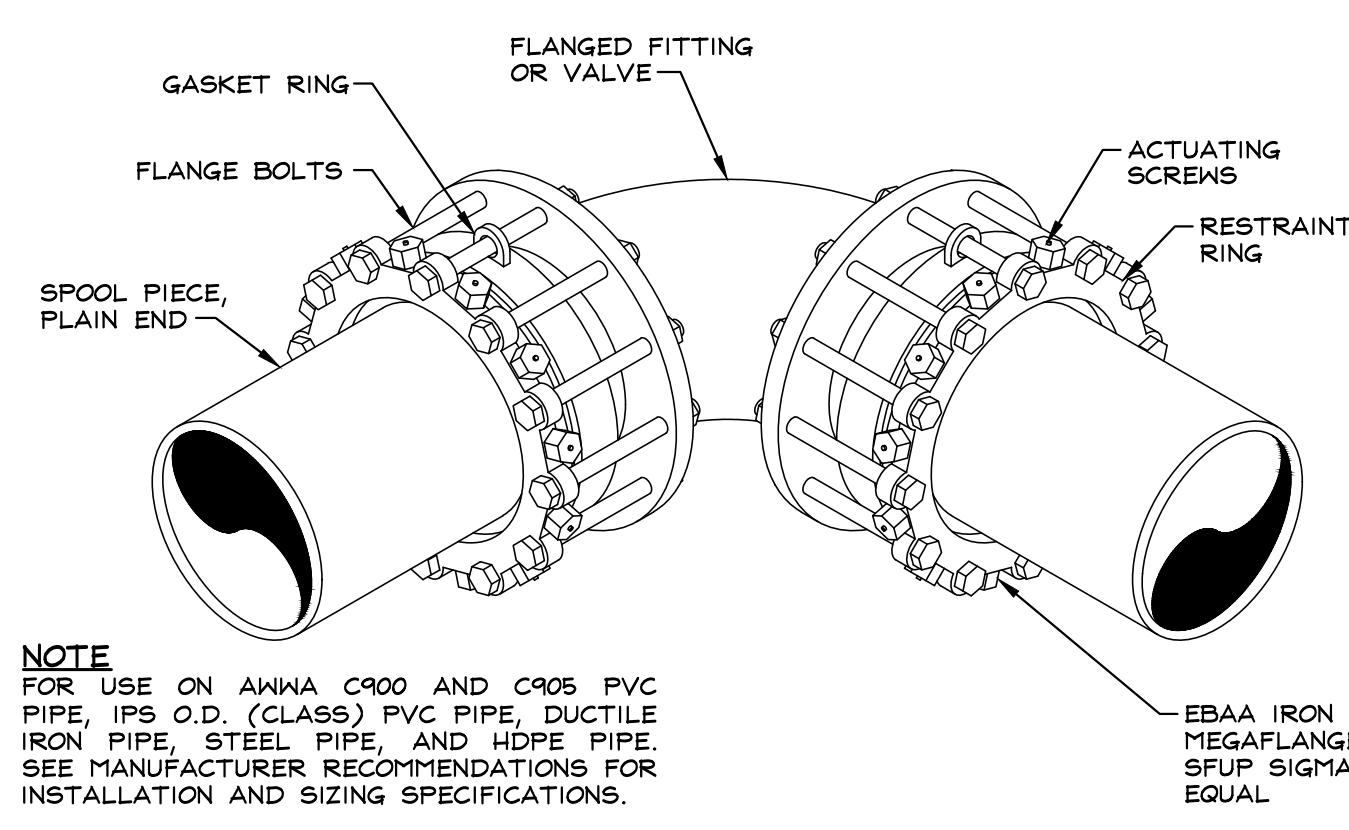


PIPE SADDLE DETAIL
N.T.S. C45 STD. W/3"

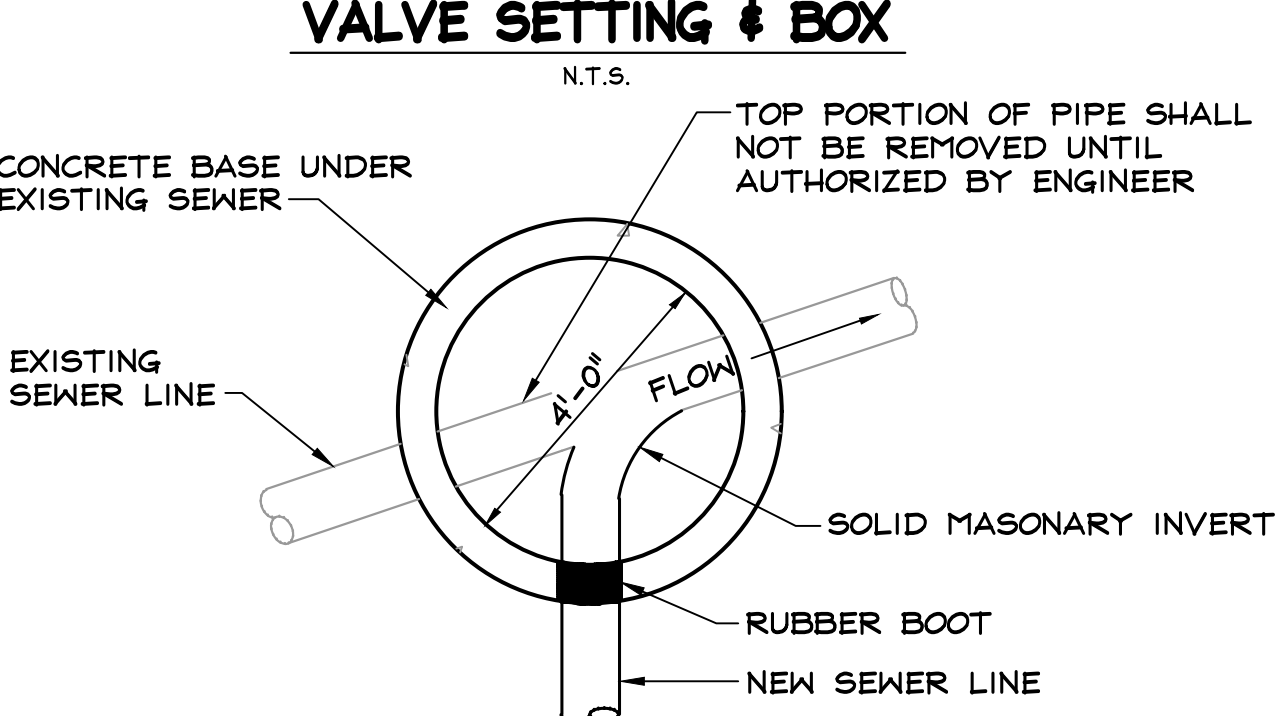
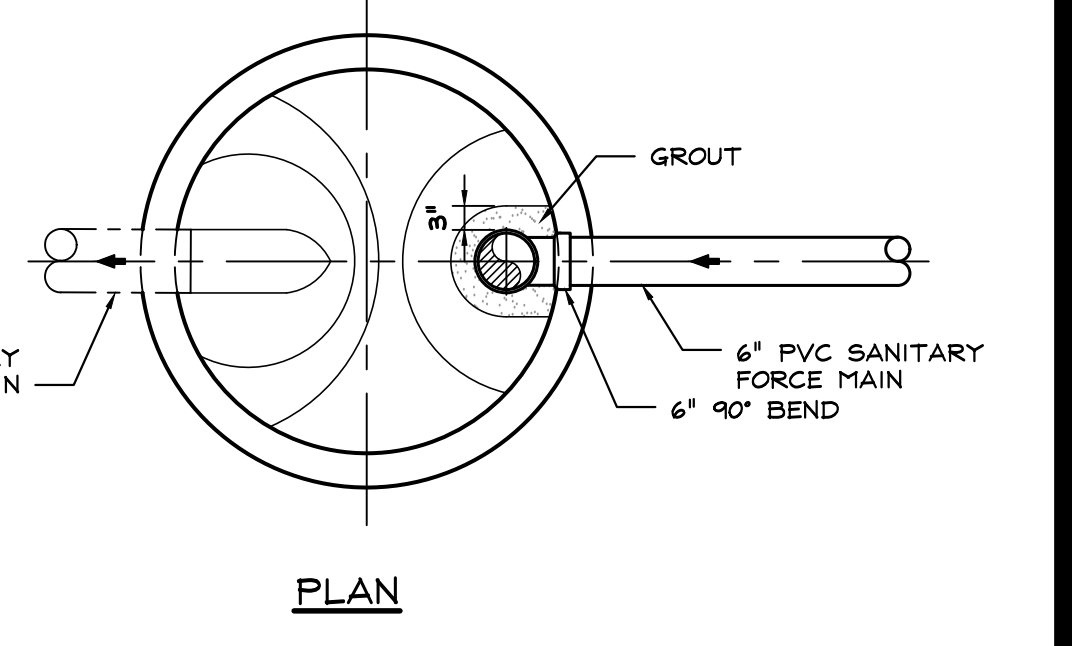
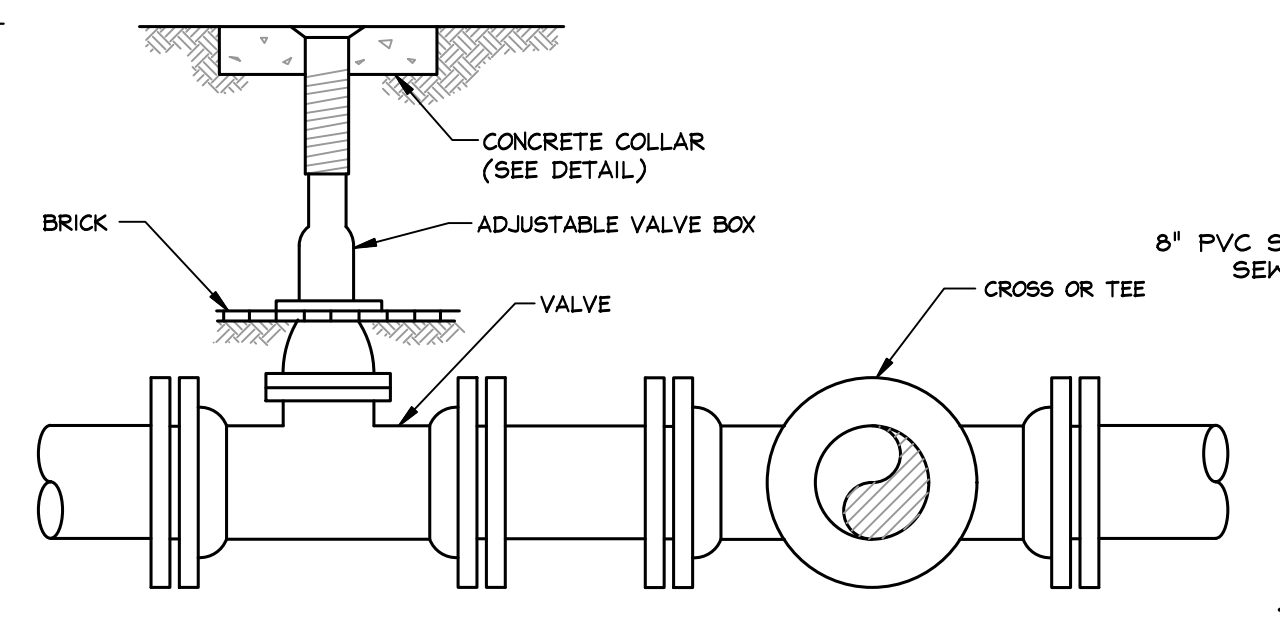
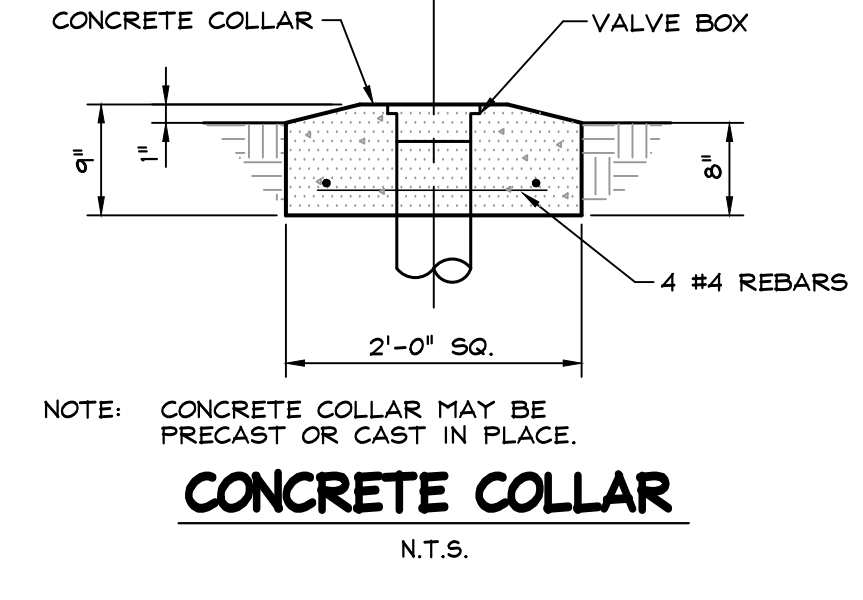
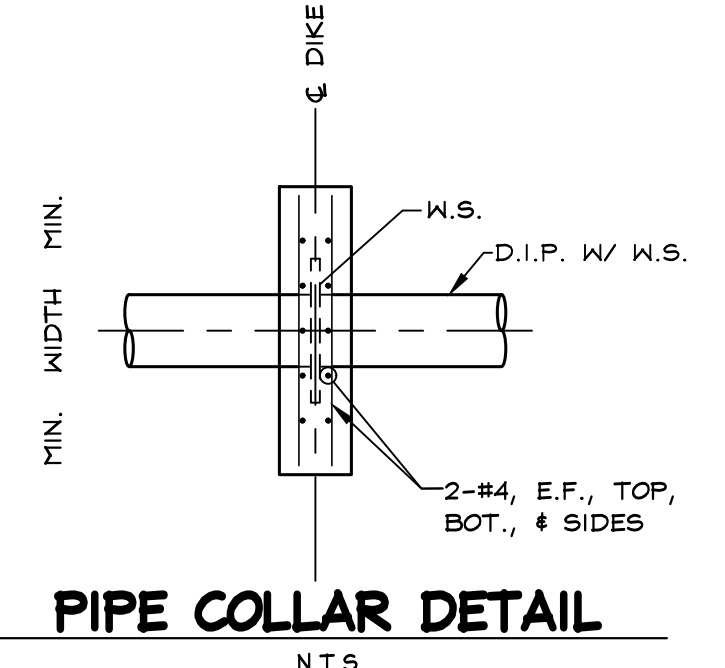


PIPE WALL DETAIL
N.T.S.

NOTES:
1. FURNISH RESTRAINED MECHANICAL JOINT WHERE INDICATED ON THE DRAWINGS OR SPECIFIED.
2. FURNISH JOINT TYPES AS SHOWN ON THE DRAWINGS. JOINTS SHOWN IN DETAIL ARE CONCEPTUAL ONLY.
3. PIPE SIZE AND PIPE MATERIAL VARIES.

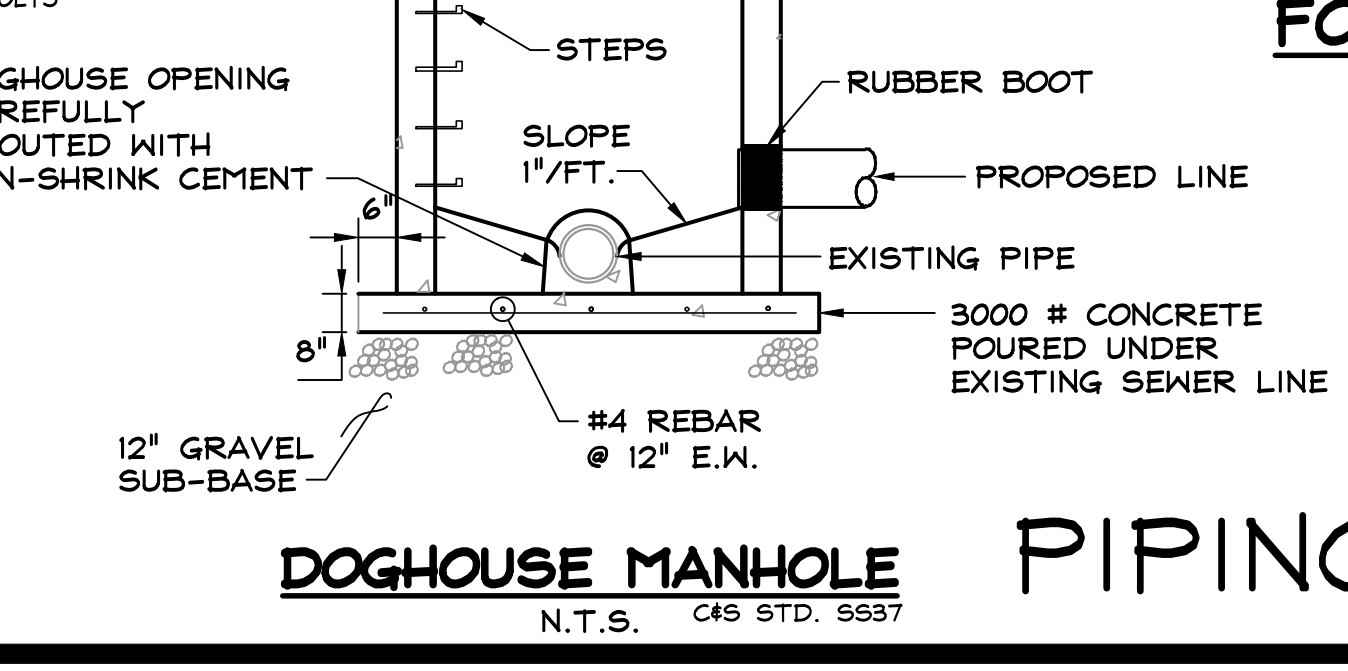


RESTRAINED FLANGED ADAPTOR DETAIL
N.T.S.



FORCE MAIN CONNECTION TO MANHOLE
SCALE: 1/2" = 1'

NOTES:
1. PROVIDE PRECAST MANHOLE RISER COMPLETE WITH UP-SIDE DOWN U-SHAPED OPENING TO SUIT EXISTING LINES.
2. CORED AND BOOTED OPENINGS TO SUIT PROPOSED PIPELINES.
3. TABLES ARE TO BE GENTLY SLOPED AND TROWELED SMOOTH FROM MANHOLE WALL TO INVERT WALL HEIGHT AND CONSTRUCTED OF SOLID MASONRY.



PIPING DETAILS



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GA COA LICENSE #PE001004 EXPIRES 6/30/2026

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DSGN: MB	DRWN: JB
SCALE: AS SHOWN	
PROJ. NO.: T7040.003	SHEET NO.:
DATE:	03/16/26
23	

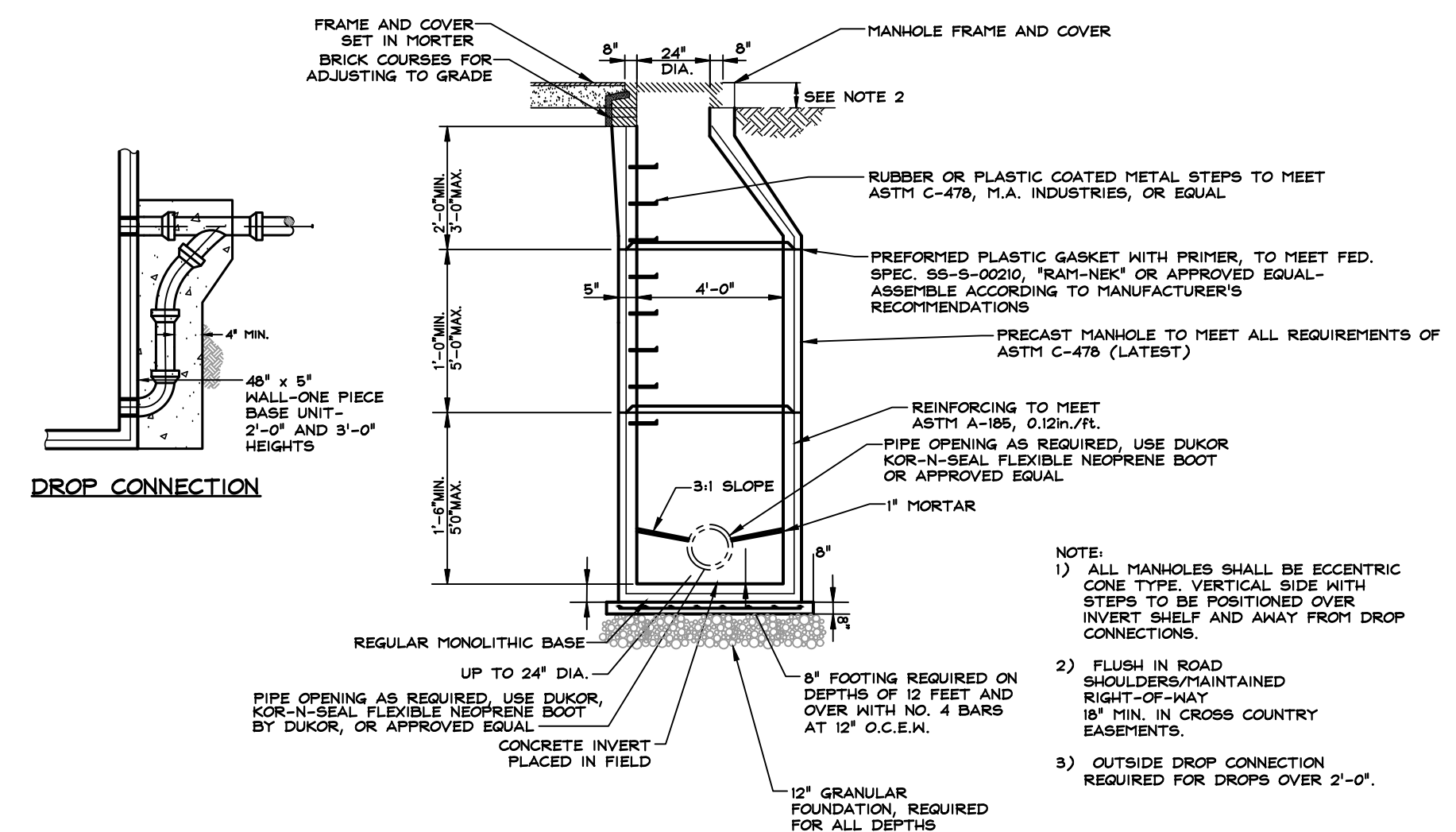
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Know what's below.
Call before you dig.

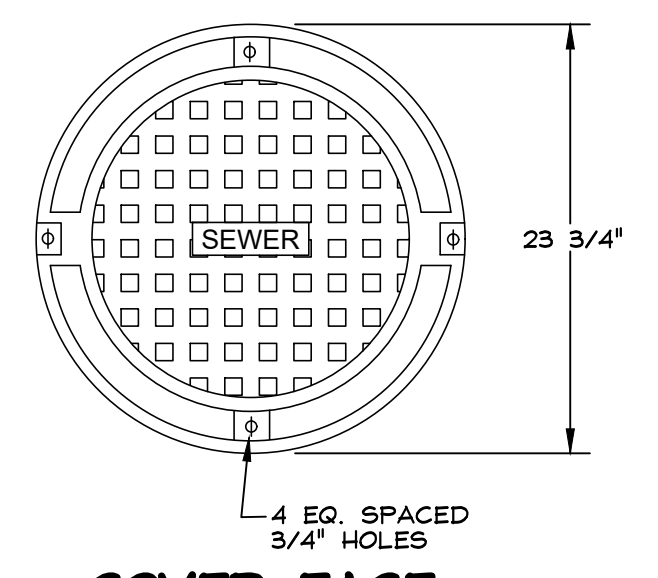
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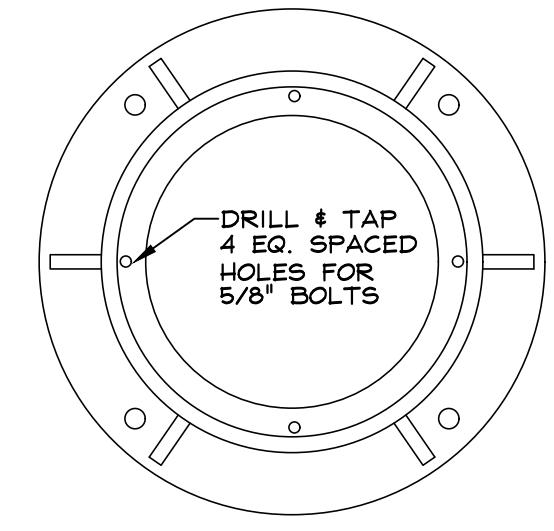
RELEASES	
03/16/26	RELEASE FOR BID
03/30/26	ADDENDUM #1



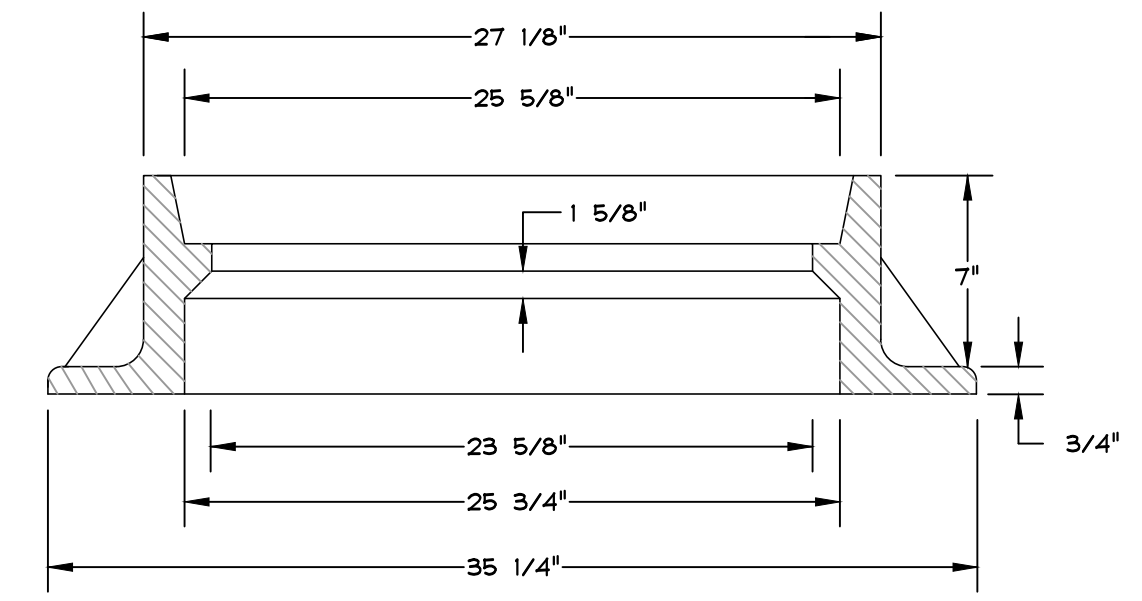
PRECAST MANHOLE DETAIL W/ DROP
N.T.S.



COVER FACE
N.T.S.

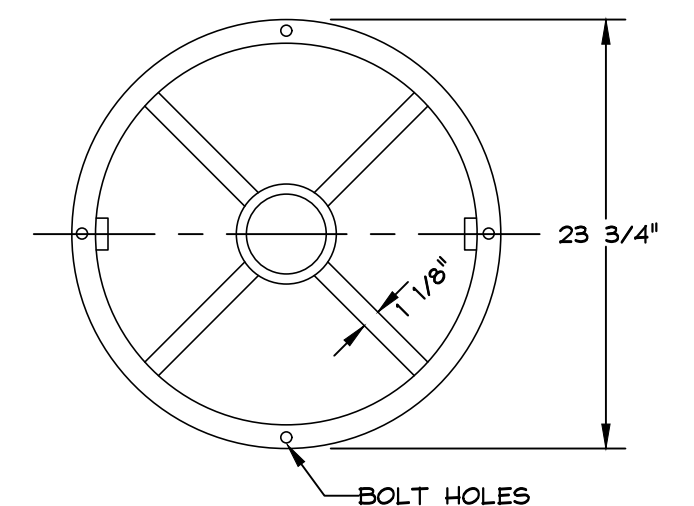


FRAME PLAN
N.T.S.

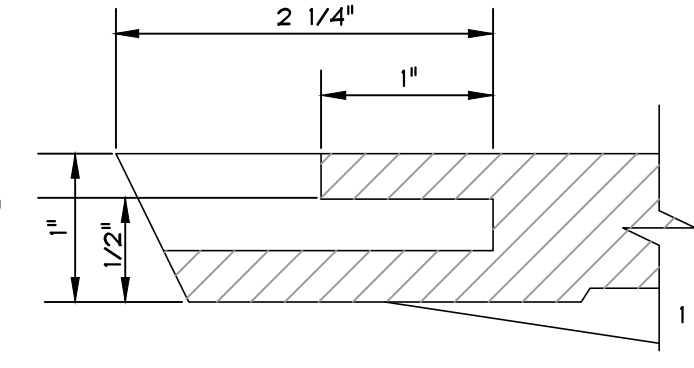


FRAME SECTION
N.T.S.

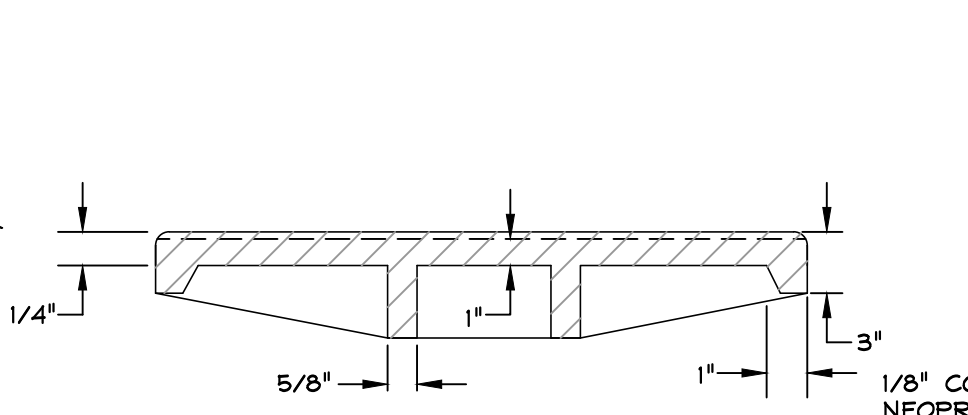
NOTE: PICKHOLES SHALL BE NON-PENETRATING AND WATER TIGHT. CORRUGATION AND TWO PICKHOLES IN COVER, NO PERFORATION. SEATING SURFACE OF FRAMES AND COVERS TO BE MACHINED TO FIT. FRAME AND COVER SHALL WEIGH 280 POUNDS MINIMUM.



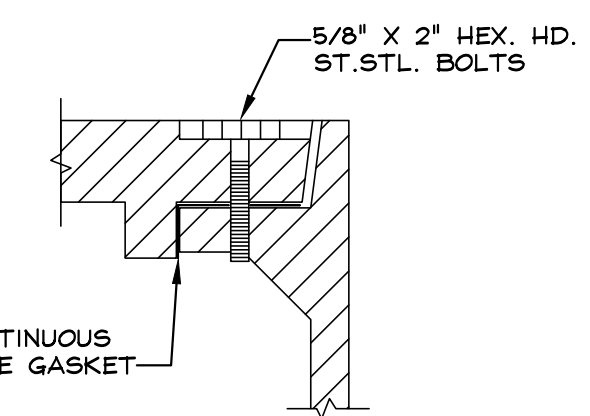
COVER BACK
N.T.S.



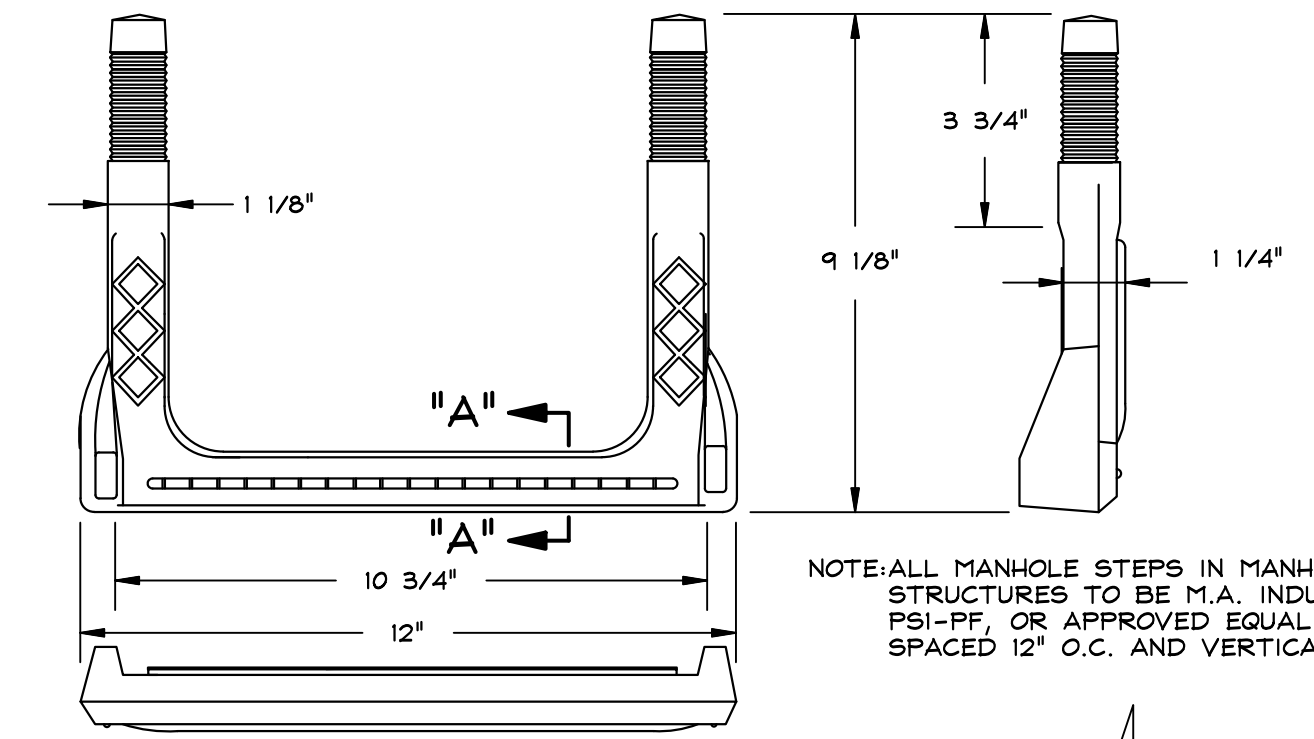
PICKHOLE DETAIL
N.T.S.



COVER SECTION
N.T.S.

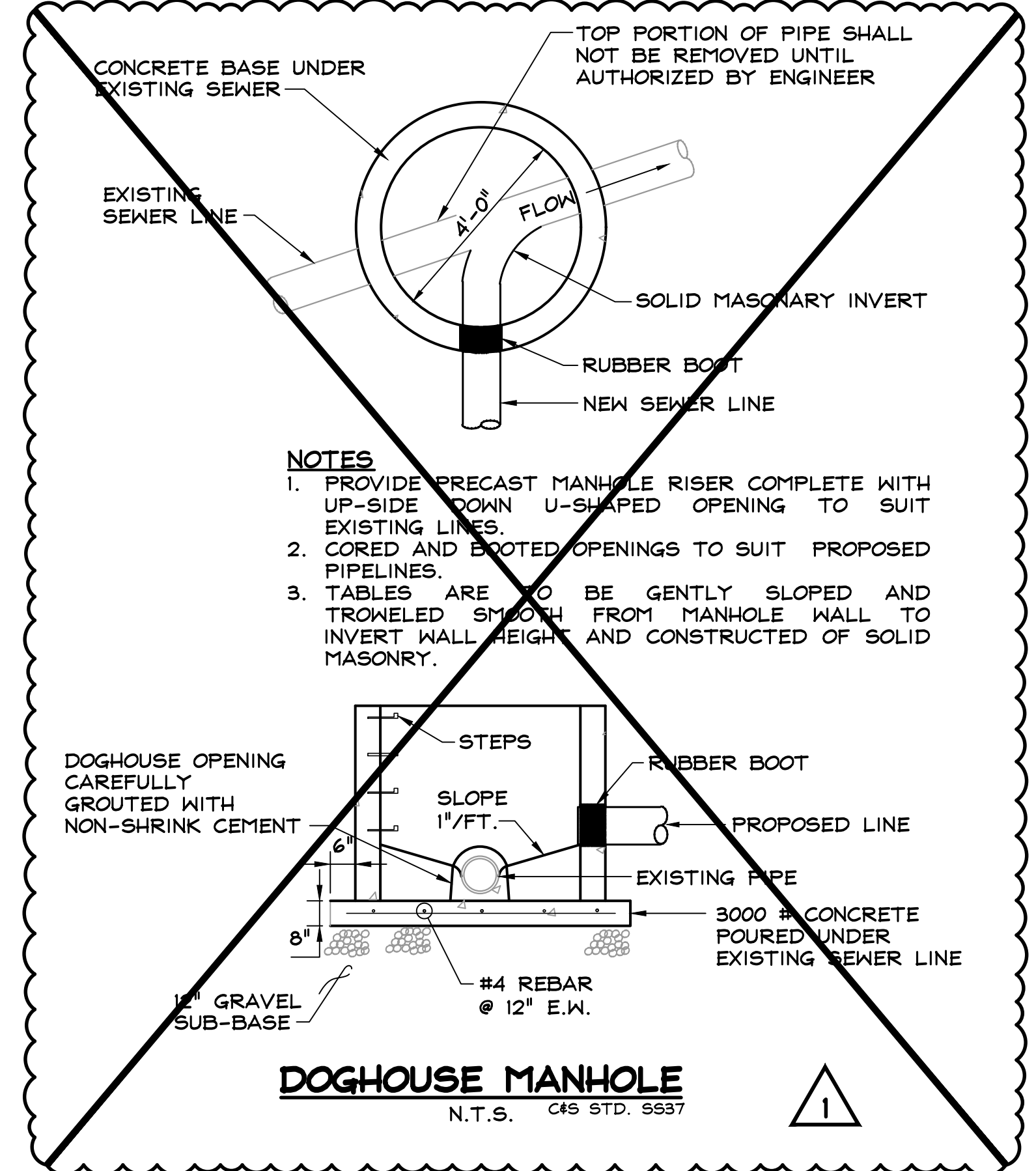


WATERTIGHT DETAIL
N.T.S.



SECTION "A"

PVC MANHOLE STEPS DETAIL
N.T.S.



DOGHOUSE MANHOLE
N.T.S. C45 STD. 5537

- NOTES**
1. PROVIDE PRECAST MANHOLE RISER COMPLETE WITH UP-SIDE DOWN U-SHAPED OPENING TO SUIT EXISTING LINES.
 2. CORED AND BOOTED OPENINGS TO SUIT PROPOSED PIPELINES.
 3. TABLES ARE TO BE GENTLY SLOPED AND TROWELED SMOOTH FROM MANHOLE WALL TO INVERT WALL HEIGHT AND CONSTRUCTED OF SOLID MASONRY.

WWTP IMPROVEMENTS
FOR THE
TOWN OF TIGNALL
WILKES COUNTY, GEORGIA

Carter & Sloop
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PROJ. NO.: T7040.003	SHEET NO.:
DATE:	03/16/26
	24



SITE DETAILS

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Know what's below.
Call before you dig.

CONTROL SCHEMATIC SYMBOLS

	CONDUCTORS CONNECTED
	CONDUCTORS NOT CONNECTED
	CONNECTION POINT
	TERMINAL POINT
	MOLDED CASE CIRCUIT BREAKER, THERMAL MAGNETIC UNLESS NOTED OTHERWISE, TRIP SIZE & NUMBER OF POLES AS INDICATED
	MOTOR CIRCUIT PROTECTION, TRIP SIZE AS INDICATED
	DISCONNECT SWITCH, ID D5-XXX, CONTINUOUS RATING AS INDICATED, 600V MINIMUM UNLESS NOTED OTHERWISE
	FUSED DISCONNECT, CONTINUOUS RATING AS INDICATED, 600V MINIMUM UNLESS NOTED OTHERWISE
	FUSE CONTINUOUS RATING AS INDICATED
	MOTOR ID M-XXXX HORSE POWER AS INDICATED
	MOTOR OVERLOADS, THERMAL UNLESS NOTED OTHERWISE
	MOTOR STARTER COIL
	INDICATOR LIGHT X = LENS COLOR R = RED G = GREEN A = AMBER W = WHITE B = BLUE
	MOTOR STARTER COIL
	PUSH BUTTON NORMALLY OPEN & CLOSED
	SELECTOR SWITCH NORMALLY OPEN & CLOSED
	TIME DELAY SWITCH NORMALLY OPEN & CLOSED TIME TO CLOSE/OPEN
	FLOAT SWITCH NORMALLY OPEN & CLOSED
	PRESSURE SWITCH NORMALLY OPEN & CLOSED
	LIMIT SWITCH NORMALLY OPEN & CLOSED
	LIMIT SWITCH NORMALLY OPEN HELD CLOSED & NORMALLY CLOSED HELD OPEN
	PULLCORD SWITCH NORMALLY OPEN & CLOSED
	PROXIMITY SWITCH NORMALLY OPEN & CLOSED
	TEMPERATURE SWITCH NORMALLY OPEN & CLOSED
	FLOW SWITCH NORMALLY OPEN & CLOSED
	SOLENOID VALVE
	ALARM LIGHT
	ALARM HORN
	MOTOR / PANEL HEATER
	PANEL LIGHT
	C.T. CURRENT TRANSFORMER
	CONTROL POWER TRANSFORMER, SIZE AS INDICATED OR SPECIFIED

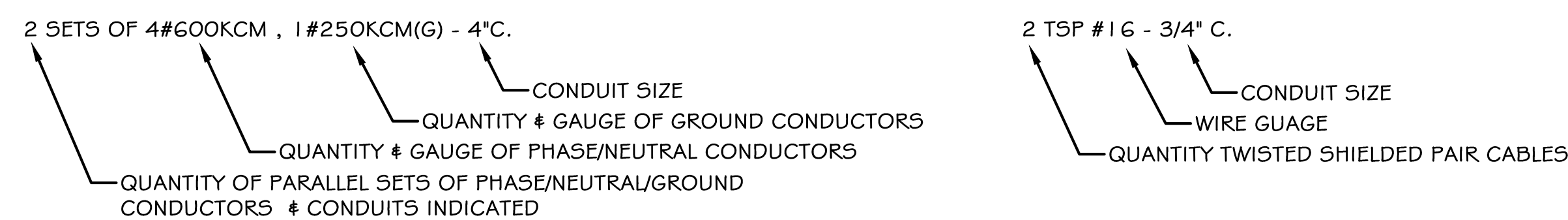
PLAN SYMBOLS

<u>CIRCUIT AND RACEWAY SYMBOLS</u>	
	PROVIDE RACEWAY, CONCEALED IN CEILING OR WALL.
	PROVIDE RACEWAY, CONCEALED IN FLOOR OR UNDERGROUND.
	PROVIDE RACEWAY, EXPOSED.
	PROVIDE RACEWAY, FLEXIBLE.
	CONCRETE ENCASED DUCT BANK
<u>BRANCH FEEDER CIRCUIT / HOMERUN</u>	
	HD-2,4,6 EXAMPLE: HOMERUN TO PANEL D CIRCUITS 2, 4 & 6 2#12 & 1#12G UNLESS NOTED OTHERWISE
	3#12 & 1#12G UNO (TICK MARKS INDICATE CONDUCTOR QTY NOT INCLUDING GROUND WIRE)
	HOMERUN WITH 2/C SHIELDED, TWISTED NO. 16 SIGNAL CABLE IN 3/4" C.
<u>GROUNDING SYMBOLS</u>	
	5/8" X 10' COPPERCLAD GROUND ROD DRIVEN FULL DEPTH INTO EARTH
	GROUND ROD & WELL
	BARE COPPER GROUNDING CONDUCTOR - #2/0 UNO INSTALLED A MINIMUM 30" BELOW GRADE
	EXOTHERMIC (CADWELD) CONNECTION TO GROUND
<u>POWER PLAN SYMBOLS</u>	
	WALL OUTLET, DUPLEX RECEPTACLE, 20A, 125V, NEMA 5-20R, NUMBER DESIGNATES CIRCUIT IDENTIFICATION
	WALL OUTLET, DUPLEX GFCI RECEPTACLE, 20A, 125V, NEMA 5-20R
	WALL OUTLET, QUADRUPLX RECEPTACLE, TWO - 20A, 125V, 3W, NEMA 5-20R
	RECEPTACLE AS INDICATED W/ WEATHER-PROOF, IN-USE, COVER
	COUNTER OUTLET, ALUMINUM NOZZLE COUNTER MOUNTED LEW ELECTRIC FDN-300-A
	FLOOR OUTLET, RECEPTACLE AS INDICATED, BRASS POP UP FLOOR PLATE LEW ELECTRIC PUFF-BD
	MOTOR RATED SWITCH OUTLET, A.C. TYPE, 30A, 600V, HUBBLE CAT. NO. HBL7832FWMD
	JUNCTION BOX
	MOTOR HORSE POWER AS INDICATED
	SAFETY SWITCH, AMPS / POLES / ENCLOSURE NEMA RATING
	MOTOR STARTER, STAND ALONE
	DEVICE - SENSOR, TRANSDUCER, CONTROL SWITCH ETC.
	CONTROL PANEL
	DISTRIBUTION PANEL
	PANELBOARD FLUSH OR SURFACE MOUNTED.
<u>MISCELLANEOUS COMMUNICATIONS SYMBOLS</u>	
	6" BRASS POP UP FLOOR PLATE LEW ELECTRIC PUFF-BC, 3/4"C. HOMERUN CATGE TO THE TELEPHONE BACKBOARD OR NETWORK SWITCH, (T=TELEPHONE, F=FAX, N=NETWORK)
	COMMUNICATION OUTLET WITH BUSHED COVER PLATE, 3/4"C. HOMERUN CATGE TO THE TELEPHONE BACKBOARD OR NETWORK SWITCH, (T=TELEPHONE, F=FAX, N=NETWORK, A=ALL)
<u>LIGHTING PLAN SYMBOLS</u>	
	SWITCH A.C. TYPE, SINGLE POLE, 15A, 125/277V, NUMBER DESIGNATES CIRCUIT IDENTIFICATION
	SWITCH OUTLET, A.C. TYPE, THREE / FOUR WAY, 15A, 125/277V. (3, DENOTES THREE WAY, 4 DENOTES FOUR WAY)
	SWITCH OUTLET W/ PASSIVE INFRARED OCCUPANCY SENSOR & NIGHT LIGHT
	SWITCH OUTLET W/ PILOT LIGHT
	SWITCH OUTLET W/ DIMMER

SINGLE LINE DIAGRAM SYMBOLS

	LOW VOLTAGE POWER CIRCUIT AND BREAKER DRAW OUT TYPE, TRIP SIZE & NUMBER OF POLES AS INDICATED
	MOLDED CASE CIRCUIT BREAKER, THERMAL MAGNETIC UNLESS NOTED OTHERWISE, TRIP SIZE & NUMBER OF POLES AS INDICATED
	MOTOR CIRCUIT PROTECTION, TRIP SIZE AS INDICATED
	FUSED DISCONNECT ID D5-XXXX DISCONNECT / FUSE CONTINUOUS RATING NUMBER OF POLES NEMA ENCLOSURE RATING
	DISCONNECT ID CONTINUOUS RATING NUMBER OF POLES NEMA ENCLOSURE RATING
	FULL VOLTAGE NON-REVERSING MOTOR STARTER NEMA SIZE AS INDICATED
	FULL VOLTAGE REVERSING MOTOR STARTER NEMA SIZE AS INDICATED
	REDUCED VOLTAGE SOLID STATE STARTER SOFT STARTER
	VARIABLE FREQUENCY DRIVE SEE SPECIFICATIONS FOR DETAILS
	MOTOR OVERLOADS SOLID STATE UNLESS OTHERWISE NOTED
	MOTOR HORSE POWER AS INDICATED MOTOR IDENTIFICATION M-XXXX
	MISCELLANEOUS LOAD, FLA AS SHOWN
	METER: A - AMMETER V - VOLTMETER VAR - VAR METER
	LINE REACTOR
	CURRENT TRANSFORMER
	POTENTIAL TRANSFORMER
	GENERATOR
	GENERATOR RECEPTACLE
	SURGE PROTECTIVE DEVICE
	GROUND
	UTILITY / POWER TRANSFORMER

TYPICAL CABLE & CONDUIT DESIGNATIONS

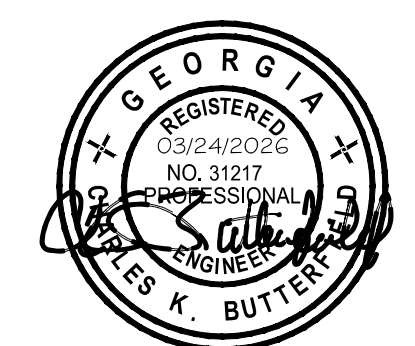


RELEASES

WWTP IMPROVEMENTS
FOR THE
TOWN OF TIGNALL
WILKES COUNTY, GA
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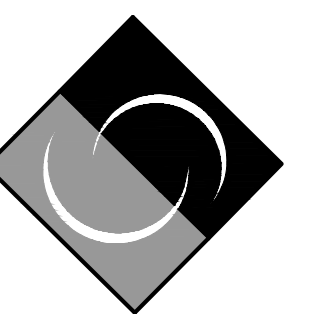
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SCALE: AS SHOWN	
PROJ. NO.: T7040.003	SHEET NO.:
DATE: 03/24/2026	E.1

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WWTP IMPROVEMENTS
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TOWN OF TIGNALL
WILKES COUNTY, GA

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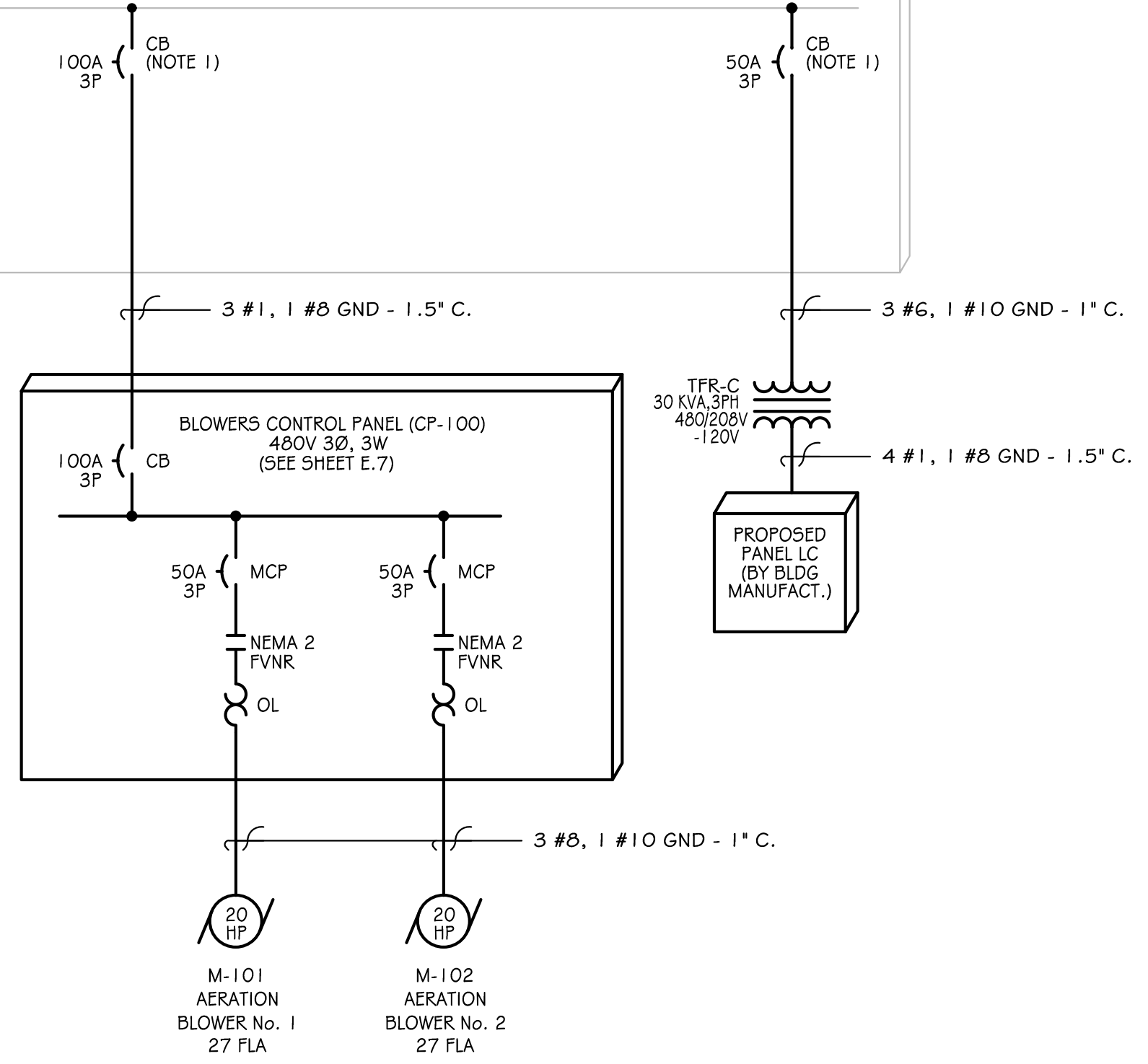
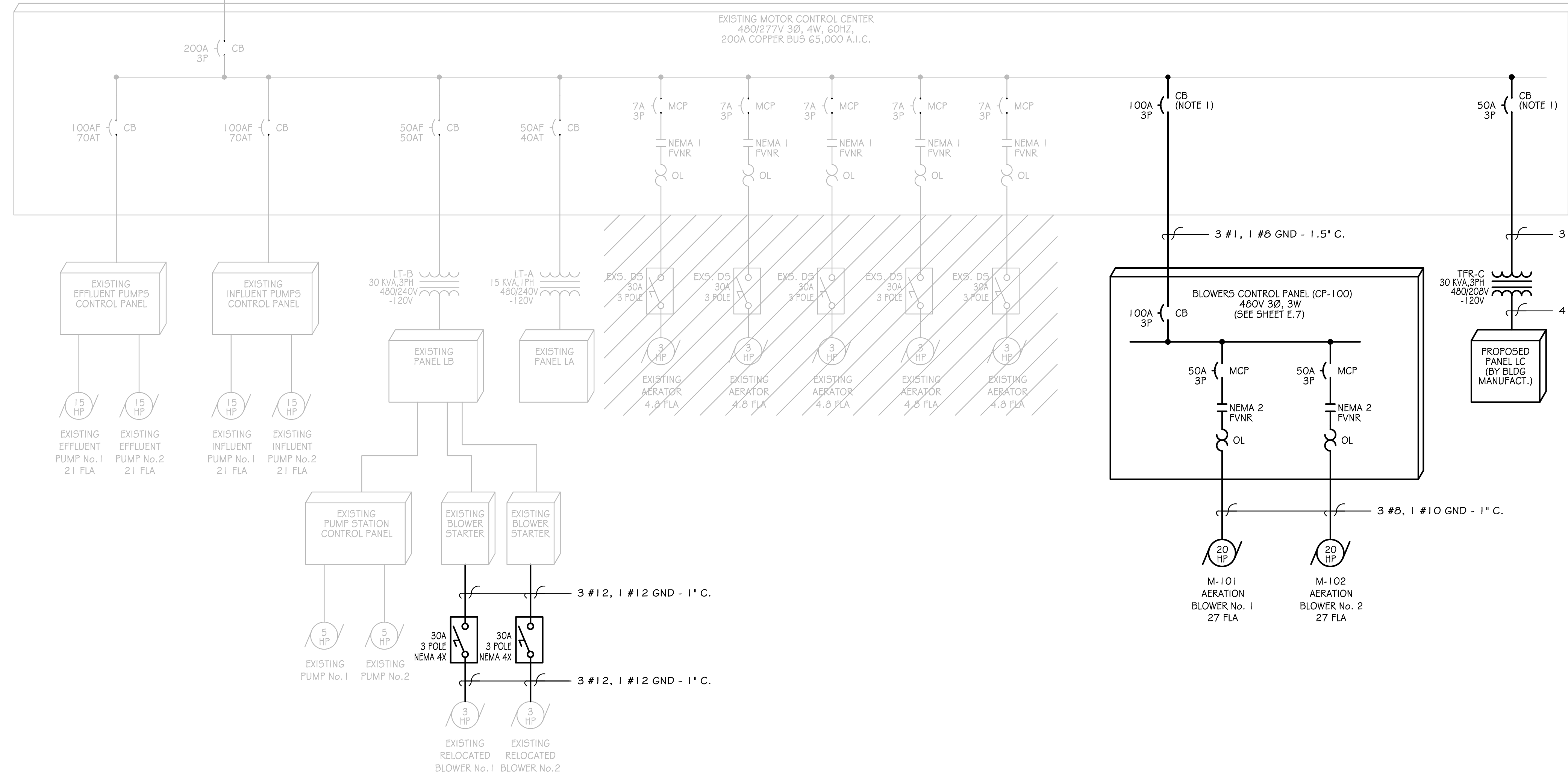
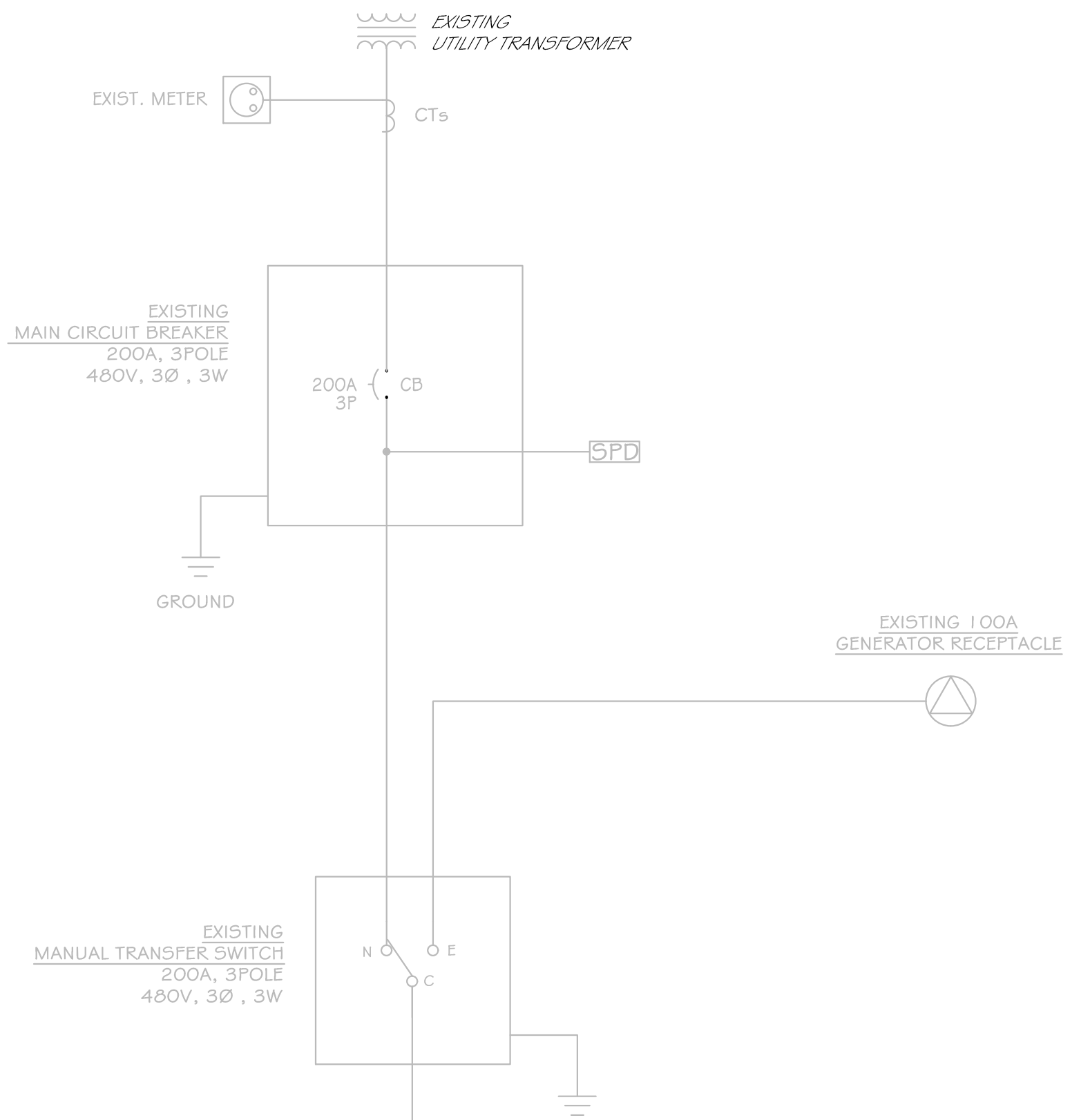
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SCALE: AS SHOWN	
PROJ. NO.: T7040.003	SHEET NO.:
DATE: 03/24/2026	E.3

NOTES:

- HOME RUN NEW CONDUCTORS FROM NEW BLOWER CONTROL PANEL TO MOTOR CONTROL CENTER. ROUTE CONDUIT THROUGH NEW CONDUIT FROM BLOWERS TO MOTOR CONTROL CENTER. ADD NEW 100A CIRCUIT BREAKER IN THE MOTOR CONTROL CENTER AS SHOWN.
- PROVIDE NEW CIRCUIT BREAKERS IN EXISTING PANELBOARDS AS SHOWN ON PANELBOARD SCHEDULES.

EXISTING SINGLE PHASE LIGHTING PANEL "PANEL 1A"		LOCATION: OPERATIONS BUILDING	
VOLTAGE, PHASE & AMPS: 120/240-1Ø 3W, 70AMP 70AMP KVA AIC:10KAIK			
MOUNTING: SURFACE ENCLOSURE: NEMA 1		CONNECTED KVA	
CKT	DESCRIPTION	PHASE A	PHASE B
1	EXIST. AERATOR CP	20/1	0.2 0.5
3	EXIST. AC UNIT	30/1	2.0 0.3
5		/2	2.0 0.7
7	EXIST. WATER HEATER	30/1	2.3 0.6
9		/2	2.3 0.8
11	EXIST. REFRIGERATOR RECEPTACLE	20/1	0.2 0.1
13	EXIST. WIREMOLD OUTLETS	20/1	0.4 0.1
15	EXIST. WIREMOLD OUTLETS	20/1	0.4 0.1
17	EXIST. WIREMOLD OUTLETS	20/1	0.4 0.1
19	EXIST. WIREMOLD OUTLETS	20/1	0.4 0.1
21	EXIST. BLOWER CONT. POWER	20/1	0.1 -
23	EXIST. PS CONTROL POWER	20/1	0.2 -
25	EXIST. POLE MOUNTED LIGHTS	20/1	0.6 -
27		/2	0.6 -
29	EXIST. POLE MOUNTED RECEPT.	20/1	0.8 -
31	SCADA PANEL RTU-1	20/1	0.5 -
33	EFFLUENT FLOW METER FIT-200	20/1	0.5 -
35	SPACE	20/1	- -
37	SPACE	20/1	- -
39	SPACE	20/1	- -
41	SPACE	20/1	- -

NOTE 2



- EXISTING PROPOSED
- NOTES:
- PROVIDE NEW 100A CIRCUIT BREAKER TO FEED BLOWERS CONTROL PANEL CP-100.
 - PROVIDE NEW 50A CIRCUIT BREAKER TO FEED PROPOSED CHEMICAL STORAGE PANELBOARD LC.
 - RELABEL EXISTING MCC BUCKETS FEEDING AERATORS TO "SPARE".
 - SHADED CIRCUITS REPRESENT NEW CIRCUIT BREAKERS/STARTERS TO BE PROVIDED AND INSTALLED BY CONTRACTOR.

MCC ELEVATION
SCALE: N.T.S.

SINGLE LINE DIAGRAM
SCALE: N.T.S.

ONE LINE DIAGRAM

BFIELD ENGINEERING, LLC
4180 Providence Road, Suite 325
Mableton, GA 30062
Phone: (678) 650-0732



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