

LETTER OF TRANSMITTAL

TO: J McDowell Construction Company NGT Group, LLC

Jeremy Dowell j@jmcdowellco.com Asmir Vehabovic <u>asmir.v@ngtgroupllc.com</u>

Walker Co WSA

The Blue Book Dodge Data & Analytics Associated General Contractors Builders Exchange of Tennessee Construct Connect Erin McVeigh emcveigh@mail.thebluebook.com dodge.bidding@construction.com planroom@agcetn.org Heather Lowery heather@bxtn.org Rachael Taylor rachael.taylor@constructconnect.com

Brandon Whitley brandon w@walkercountywsa.com

- FROM: Philip Schofield, P.E., Senior Project Manager
- DATE: May 28, 2024
- PROJ. NO.: G22021
- SUBJECT: Addendum No. 3 Trenching for Flarity Road Water Line Extension Walker County Water & Sewerage Authority

PAGES: pages follow 17

PLEASE	TO CONFIRM RECEIPT OF THIS ADDENDUM NO. 3 PLEASE SIGN AND EMAIL TO CTI <u>vvisco@ctiengr.com</u>
RESPOND	Company
	Signature
	Title
	Date

ADDENDUM NO. 3

WALKER COUNTY WATER & SEWERAGE AUTHORITY TRENCHING FOR FLARITY ROAD WATER LINE EXTENSION

The following changes shall be made to the Contract Documents, Specifications, Drawings:

I. CONTRACT DOCUMENTS

A. Section 00 11 00, Advertisement for Bids.

1. In the first paragraph, line 4, DELETE the words "Thursday, May 30, 2024" and SUBSTITUTE therefore the words "Thursday, June 13, 2024". The bid time remains the same.

B. Section 00 21 00, Information for Bidders.

1. DELETE Pages 00 21 00-3 through -6, REPLACE with the attached Pages 00 21 1-3.1 through 6.1

C. Section 00 41 00, Bid. Page

1. DELETE Pages 00 41 00-1 through -2 with the attached Pages 00 41 00-1.1 through 00 41 00-2.1

D. Section 00 42 00, Bid Schedule.

- 1. DELETE Page 00 42 00-1 and REPLACE with attached Pages 00 42 00-1.1 thru 00 42 00-1.4
- E. Section 00 43 80, Bidder Acknowledgment of Contract Time.
 1. DELETE Page 00 43 80-1 and REPLACE with the attached 00 43 80-1.1
- F. Section 00 52 00, Contract. Page 00 52 00-1.
 - 1. DELETE Pages 00 52 00-1 and -2 and REPLACE with the attached 00 52 00-1.1 through 3.1
- G. Section 00 55 00, Notice to Proceed. Page 00 55 00-1.
 - 1. DELETE Pages 00 55 00-1 and -2 and REPLACE with the attached 00 55 00-1.1 through 3.1

II. DRAWINGS

A. ADD the attached Drawing Set for County Road 631 Water Line Extension.

Date: May 28, 2024

CTI Engineers, Inc. /s/ Philip R. Schofield, P.E. Senior Project Manager his Bid, shall forfeit to the Owner, as liquidated damages for such failure or refusal, the security deposited with his Bid.

9. Time for Completion and Liquidated Damages

Bidder must agree to commence work on or before a date to be specified in a written Notice to Proceed of the Owner and to fully complete each Schedule of the Project within the consecutive calendar days listed in the days listed in the table below:

CONTACT TIMES TABLE	DAYS
Schedule I – Flarity Road STA 0+00 to STA 165+00	440
Schedule II - Flarity Road STA 165+00 to STA 204+00	100
Schedule III - Griff Johnson Road	540
Schedule IV - County Road 631	90
Alternate Schedule V - Drill and Blast Only Flarity Road STA 0+00 to STA 165+00	440
Alternate Schedule VI - Drill and Blast Only Flarity Road STA 165+00 to STA 204+00	100
Alternate Schedule VII - Drill and Blast Only Griff Johnson Road	540
Alternate Schedule VIII - Drill and Blast Only County Road 631	90

Bidder must agree also to pay as liquidated damages the sum of \$500 for each consecutive calendar day in default as hereinafter provided in the General Conditions.

10. Conditions of Work

Each Bidder must inform himself fully of the conditions relating to the construction of the Project and the employment of labor thereon. Failure to do so will not relieve a successful Bidder of his obligation to furnish all material and labor necessary to carry out the provision of his Contract. Insofar as possible the Contractor, in carrying out his work, must employ such methods or means as will not cause any interruption of or interference with the work of any other Contractor.

11. Addenda and Interpretations

No interpretation of the meaning of the Drawings, Specifications, or other prebid documents will be made to any Bidder orally.

Every request for such interpretation should be in writing addressed to <u>pschofield@ctiengr.com</u> or Philip R. Schofield, P.E., Project Manager, CTI Engineers, Inc., at 1122 Riverfront Parkway, Chattanooga, TN 37402, and to be given consideration must be received at least five days prior to the date fixed for the opening of Bids. Any and all such interpretations and any supplemental instructions will be in the form of written addenda to the Specifications which, if issued, will be mailed and transmitted by facsimile to all prospective Bidders (at the respective addresses and facsimile numbers furnished for such purposes), not later than three days prior to the date fixed for the opening of Bids. Failure of any Bidder to receive any such addendum or interpretation shall not relieve such Bidder from any obligation under his Bid as submitted. All addenda so issued shall become a part of the Contract Documents.

12. Security for Faithful Performance

Simultaneously with his delivery of the executed Contract, the Contractor shall furnish a surety bond or bonds as security for faithful performance of this Contract and for the payment of all persons performing labor on the Project under this Contract and furnishing materials in connection with this Contract, as specified in the General Conditions included herein. Surety companies executing bonds must appear on the Treasury Department's most current list (Circular 570 as amended) and be authorized to transact business in the state where the project is located.

13. Power of Attorney

Attorney-in-fact who sign bid bonds or contract bonds must file with each bond a certified and effectively dated copy of their power of attorney.

14. Notice of Special Conditions

Attention is particularly called to those parts of the Contract Documents and Specifications which deal with the following:

- a. Inspection and testing of materials
- b. Insurance requirements
- c. Wage rates (if applicable)
- d. Surveys, permits, and regulations

The federal regulations enclosed or herein referred to supersede all conflicting requirements of the Contract Documents.

15. Laws and Regulations

The Bidder's attention is directed to the fact that all applicable state laws, municipal ordinances, and the rules and regulations of all authorities having jurisdiction over construction of the Project shall apply to the Contract throughout, and they will be deemed to be included in the Contract the same as though herein written out in full.

16. Obligation of Bidder

At the time of the opening of Bids, each Bidder will be presumed to have inspected the site and to have read and to be thoroughly familiar with the Drawings and Contract Documents (including all addenda). The failure or omission of any Bidder to examine any form, instrument, or document shall in no way relieve any Bidder from any obligation in respect of his Bid.

17. Execution of Bid Documents

The Contractor, in signing his Bid on the whole or any portion of the work, shall conform to the following requirements:

- a. Bids which are not signed by individuals making them shall have attached thereto a power of attorney evidencing authority to sign the Bid in the name of the person for whom it is signed.
- b. Bids which are signed for a partnership shall be signed by all of the partners or by an attorney-in-fact. If a Bid is signed by an attorney-in-fact, there should be attached to the Bid a power of attorney executed by the partners evidencing authority to sign the Bid.
- c. Bids which are signed for a corporation shall have the correct corporate name thereof and the signature of the President or other authorized officer of the corporation manually written below the corporate name following the wording "By ." Corporation seal shall also be affixed to the Bid.
- 18. Method of Award Lowest Qualified Bidder

The Contract will be awarded to the responsive, responsible Bidder submitting the lowest Bid complying with the conditions of the Information for Bidders. Award will be made on the basis of the prices given in the base Bid either with or without alternates at the discretion of the Owner. The Bidder to whom the award is made will be notified at the earliest possible date. The Owner reserves the right to reject any and all Bids and to waive any informality in Bids received whenever such rejection or waiver is in its interest.

A responsive Bidder shall be one who submits his Bid in the proper form without qualification or intent other than as called for in the Specifications and on the Contract Drawings and who binds himself on behalf of his Bid to the Owner with the proper bid bond or certified check completed and attached, and who properly completes all forms required to be completed and submitted at the time of the bidding.

A responsible Bidder shall be one who can fulfill the following requirements:

- a. The Bidder shall maintain a permanent place of business. This requirement applies to the Bidder where the Bidder is a division of a corporation, or where the Bidder is 50 percent or more owned by a person, corporation, or firm.
- b. The Bidder shall demonstrate that he has adequate construction management experience and sufficient equipment resources to properly perform the work under and in conformance with these Contract Documents. This evaluation will be based upon a list of completed or active projects and a list of construction equipment available to the Bidder to perform the work.

- c. The Bidder shall demonstrate that he is familiar with the work under these Contact Documents. This evaluation will be based upon a list of major equipment items the Bidder proposes to furnish and a list of subcontractors the Bidder proposes to use in prosecuting the work.
- d. The Bidder shall demonstrate that he has financial resources of sufficient strength to meet the obligations incident to the performance of the work covered by these Contract Documents. The Bidder shall complete the Statement of Bidder's Qualifications in the Bid forms. The ability to obtain the required Performance and Payment Bonds will not alone demonstrate adequate financial capability.
- e. The Bidder may demonstrate financial capability by submitting a suitable financial statement of an Equity Partner, provided an agreement is executed binding the Bidder and said Equity Partner, jointly and severally, to fulfill all duties, obligations, and responsibilities of the Contractor under these Contract Documents if the Contract is awarded to the Bidder. The agreement shall be submitted with the Bid and shall be satisfactory to the Owner's attorney or the Bid may be declared nonresponsive.
- f. The Bidder shall furnish all data required by these Contract Documents. Failure to do so may result in the Bid being declared nonresponsive. Acceptance of the Bidder's documentation and substantiation or contract award by the Owner does not relieve the Bidder of liability for nonperformance as covered in the Contract Documents, nor will the Bidder be exempted from any other legal recourse the Owner may elect to pursue.
- 19. Employment of Local Labor

Preference in employment on the Project shall, insofar as practicable, be given to qualified local labor.

20. Bid Envelope

All Bidders doing utility construction covered by OCGA 43-14 must have a Utility Contractor's License issued by the State of Georgia. In compliance with these requirements, the envelope in which the Bid is contained must bear on the outside the following:

- a. Name of Bidder.
- b. Address of the Bidder.
- c. Name of Project for which Bid is Submitted.
- d. Bidder's Utility Contracting License Number.
- e. Bidder's License Expiration Date.

Bid envelopes that do not bear the above information will be returned to the Bidder unopened.

A copy of the form found on the last page of this section properly completed to provide the required information as identified above shall be affixed to the front of the envelope containing the Bidder's proposal.

BID

Project Description: Trenching for Flarity Road Water Line Extension

Proposal of

(hereinafter called "Bidder"), doing business as ____

a corporation, a partnership, an individual

To the Walker County Water & Sewerage Authority (hereinafter called "Owner").

Gentlemen:

The Bidder, in compliance with your Advertisement for Bids for the construction of this project having examined the Drawings and Specifications with related documents and the site of the proposed work, and being familiar with all of the conditions surrounding the construction of the proposed project including the availability of materials and labor, hereby proposes to furnish all labor, materials, and supplies, and to construct the project in accordance with the Contract Documents, within the time set forth therein, and at the price(s) stated below. This price(s) is to cover all expenses including overhead and profit incurred in performing the work required under the Contract Documents, of which this proposal is a part.

Bidder hereby agrees to commence work under this contract on or before a date to be specified in written Notice to Proceed of the Owner and to fully complete each Schedule of the project within the consecutive calendar days listed below:

CONTACT TIMES TABLE	DAYS
Schedule I – Flarity Road STA 0+00 to STA 165+00	440
Schedule II - Flarity Road STA 165+00 to STA 204+00	100
Schedule III - Griff Johnson Road	540
Schedule IV - County Road 631	90
Alternate Schedule V - Drill and Blast Only Flarity Road STA 0+00 to STA 165+00	440
Alternate Schedule VI - Drill and Blast Only Flarity Road STA 165+00 to STA 204+00	100
Alternate Schedule VII - Drill and Blast Only Griff Johnson Road	540
Alternate Schedule VIII - Drill and Blast Only County Road 631	90

Bidder further agrees to pay as liquidated damages, the sum of \$500 for each consecutive calendar day thereafter as hereinafter provided in the General Conditions.

Bidder acknowledges receipt of the following addenda:

Bidder agrees to perform all the construction of the project complete with appurtenant and accessory work described in the Specifications and shown on the plans for the attached price(s).

The attached price(s) shall include all labor, materials, bailing, shoring, removal, overhead, profit, insurance, etc., to cover the finished work of the several kinds called for.

Bidder understands that the Owner reserves the right to reject any or all Bids and to waive any informalities in the bidding.

The Bidder agrees that this Bid shall be good and may not be withdrawn for a period of 60 calendar days after the scheduled closing time for receiving Bids.

Upon receipt of written notice of the acceptance of this Bid, Bidder will execute the formal contract attached within ten days and deliver a surety bond or bonds as required by the General Conditions. The Bid security attached in the sum of 5 percent of the total Bid is to become the property of the Owner in the event the contract and bond are not executed within the time above set forth, as liquidated damages for the delay and additional expense to the Owner caused thereby.

ATTEST:	Respectfully submitted:
Name (Please Type)	By Signature
Title	Title
	Business Address

Note: Attest for a corporation must be by the corporate secretary; for a partnership by another partner; for an individual by a Notary.

(SEAL)

BID SCHEDULE

TRENCHING FOR FLARITY ROAD/GRIFF JOHNSON ROAD/ COUNTY ROAD 631 WATER LINE EXTENSION

WALKER COUNTY WATER & SEWERAGE AUTHORITY

Note: Unless otherwise stated, all bid items shall be a complete installation as specified and/or shown on the Drawings.

	SCHEDULE I - FLARITY ROAD S		•	165+00	
Item No.	Description	Unit	Est. No. of Units	Unit Price	Item Total
1	Mobilization (Max 2% of Schedule I), Including Performance and Payment Bonds, Locating and Excavation (Pot-holing) the Existing Utilities, Project Layout and Staking, and General Conditions, per lump sum	LS	1		\$
2	Trench Excavation by Drill & Blast, Rock Trenching Disposal of Spoil Materials, per linear foot	, or Ho	be-ramming	g Methods, Includin	g Hauling and Proper
2a	Trench Excavation 0-1 Vertical Feet of Rock	LF	2,805		\$
2b	Trench Excavation 1-2 Vertical Feet of Rock,	LF	5,445		\$
2c	Trench Excavation 2-3 Vertical Feet of Rock	LF	5,445		\$
2d	Trench Excavation 3-4 Vertical Feet of Rock	LF	2,805		\$
	тот	AL SC	HEDULE I	\$	
	SCHEDULE II - FLARITY ROAD S	TA 165	5+00 to ST	A 204+00	
Item No.	Description	Unit	Est. No. of Units	Unit Price	Item Total
1	Mobilization (Max 2% of Schedule I), Including Performance and Payment Bonds, Locating and Excavation (Pot-holing) the Existing Utilities, Project Layout and Staking, and General Conditions, per lump sum		1		\$
2	Trench Excavation by Drill & Blast, Rock Trenching Disposal of Spoil Materials, per linear foot	, or Ho	be-ramming	Methods, Includin	g Hauling and Proper
2a	Trench Excavation 0-1 Vertical Feet of Rock	LF	663		\$
2b	Trench Excavation 1-2 Vertical Feet of Rock,	LF	1,287		\$
2c	Trench Excavation 2-3 Vertical Feet of Rock	LF	1,287		\$
2d	Trench Excavation 3-4 Vertical Feet of Rock	LF	663		\$
			HEDULE II		

Section No.	Description	Unit	Est. No. of Units	Unit Price	Item Total
	Mobilization (Max 2% of Schedule II), Including Performance and Payment Bonds, Locating and Excavation (Pot-holing) the Existing Utilities, Project Layout and Staking, and General Conditions, per lump sum.	LS	1		\$
2	Trench Excavation by Drill & Blast, Rock Trenching Disposal of Spoil Materials, per linear foot	, or Ho	be-ramming	g Methods, Includi	ing Hauling and Prop
2a	Trench Excavation 0-1 Vertical Feet of Rock	LF	3,749		\$
2b	Trench Excavation 1-2 Vertical Feet of Rock	LF	7,277		\$
2c	Trench Excavation 2-3 Vertical Feet of Rock	LF	7,276		\$
2d	Trench Excavation 3-4 Vertical Feet of Rock	LF	3,748		\$
	ΤΟΤΑ	L SCH	IEDULE III	\$	_1
	SCHEDULE IV - COUN)AD 631		
Section No.	Description	Unit	Est. No. of Units	Unit Price	Item Total
1	Mobilization (Max 2% of Schedule II), Including Performance and Payment Bonds, Locating and Excavation (Pot-holing) the Existing Utilities, Project Layout and Staking, and General Conditions, per lump sum.	LS	1		\$
2	Trench Excavation by Drill & Blast, Rock Trenching Disposal of Spoil Materials, per linear foot	, or Ho	be-ramming	g Methods, Includi	ing Hauling and Prop
2a	Trench Excavation 0-1 Vertical Feet of Rock	LF	415		\$
2b	Trench Excavation 1-2 Vertical Feet of Rock	LF	804		\$
2c	Trench Excavation 2-3 Vertical Feet of Rock	LF	804		\$
2d	Trench Excavation 3-4 Vertical Feet of Rock	LF	414		\$
	ΤΟΤΑ	L SCH	EDULE IV	\$	
1	ALTERNATE SCHEDULE V - DRILL AND BLAST ONL	.Y - FL	ARITY RO	AD STA 0+00 to S	STA 165+00
Item No.	Description	Unit	Est. No. of Units	Unit Price	Item Total
	Mobilization (Max 2% of Schedule I), Including Performance and Payment Bonds, Locating and Excavation (Pot-holing) the Existing Utilities, Project Layout and Staking, and General Conditions, per lump sum	LS	1		\$
2	Trench Preparation by Drill and Blast Method, Including House/Structure Surveys, Pre-Blast Preparation, etc.	LF	16,500		\$ -

Item No.	Description	Unit	Est. No.	Unit Price	Item Total
1	Mobilization (Max 2% of Schedule I), Including Performance and Payment Bonds, Locating and Excavation (Pot-holing) the Existing Utilities, Project Layout and Staking, and General Conditions, per lump sum	LS	of Units		\$
2	Trench Preparation by Drill and Blast Method, Including House/Structure Surveys, Pre-Blast Preparation, etc.	LF	3,900		\$
	TOTAL ALTERNAT	E SCH	EDULE VI	\$	
	ALTERNATE SCHEDULE VII - DRILL AND BL	AST C	NLY - GRI	FF JOHNSON RO	AD
Section No.	Description	Unit	Est. No. of Units	Unit Price	Item Total
1	Mobilization (Max 2% of Schedule I), Including Performance and Payment Bonds, Locating and Excavation (Pot-holing) the Existing Utilities, Project Layout and Staking, and General Conditions, per lump sum	LS	1		\$
2	Trench Preparation by Drill and Blast Method, Including House/Structure Surveys, Pre-Blast Preparation, etc.	LF	22,050		\$
	TOTAL ALTERNAT	E SCH	EDULE VII	\$	
	ALTERNATE SCHEDULE VIII - DRILL AND	BLAST	ONLY - C	OUNTY ROAD 63	1
Section No.	Description	Unit	Est. No. of Units	Unit Price	Item Total
1	Mobilization (Max 2% of Schedule I), Including Performance and Payment Bonds, Locating and Excavation (Pot-holing) the Existing Utilities, Project Layout and Staking, and General Conditions, per lump sum	LS	1		\$
2	Trench Preparation by Drill and Blast Method, Including House/Structure Surveys, Pre-Blast Preparation, etc.	LF	2,437		\$
					1

BID SUMMARY					
TOTAL SCHEDULE I	\$				
TOTAL SCHEDULE II	\$				
TOTAL SCHEDULE III	\$				
TOTAL SCHEDULE IV	\$				
ALTERNATE BID	SUMMARY				
TOTAL ALTERNATE SCHEDULE V	\$				
TOTAL ALTERNATE SCHEDULE VI	\$				
TOTAL ALTERNATE SCHEDULE VII	\$				
TOTAL ALTERNATE SCHEDULE VIII	\$				
Notes: 1. Bidders may bid on 1 or all Schedules. 2. The Authority may award all or any combination of schedules to 1 bidder or award the different schedules in any combination to more than 1 bidder at their discretion.					
BIDDER	DATE				
BY (Signature) TITLE					
CITY	STATE ZIP				
TELEPHONE	E-MAIL				

BIDDER ACKNOWLEDGMENT OF CONTRACT TIME

By signature below, Bidder acknowledges and agrees that the below listed contract times for substantial completion of the work included in these Contract Documents is either:

- 1. Sufficient, barring changed conditions, acts of God, or abnormal weather conditions that would justify time extensions; or
- 2. Insufficient, in which case the Contractor agrees that the price bid includes an allowance for liquidated damages of adequate magnitude to cover the additional time required to complete the work.

Bidder Name _____

Signature _____

Attest:

CONTACT TIMES TABLE	DAYS
Schedule I – Flarity Road STA 0+00 to STA 165+00	440
Schedule II - Flarity Road STA 165+00 to STA 204+00	100
Schedule III - Griff Johnson Road	540
Schedule IV - County Road 631	90
Alternate Schedule V - Drill and Blast Only Flarity Road STA 0+00 to STA 165+00	440
Alternate Schedule VI - Drill and Blast Only Flarity Road STA 165+00 to STA 204+00	100
Alternate Schedule VII - Drill and Blast Only Griff Johnson Road	540
Alternate Schedule VIII - Drill and Blast Only County Road 631	90



CONTRACT

THIS CONTRACT, made this _____ day of _____, 2024, by and between Walker County Water & Sewerage Authority, hereinafter called "Owner" and

_____ doing business as a _____

corporation, individual, or partnership

hereinafter called "Contractor."

WITNESSETH: That for and in consideration of the payments and agreements hereafter mentioned:

- 1. The Contractor will commence and complete the construction of the Flarity Road Water Line Extension.
- 2. The Contractor will furnish all of the material, supplies, tools, equipment, labor and other services necessary for the completion of the work described herein.
- 3. The Contractor will commence the work required by the Contract Documents within 30 calendar days after the contract start date of the written Notice to Proceed and will complete the work within the consecutive calendar days listed in the below table unless the periods of completion are extended otherwise by the Contract Documents.

CONTACT TIMES TABLE	DAYS
Schedule I – Flarity Road STA 0+00 to STA 165+00	440
Schedule II - Flarity Road STA 165+00 to STA 204+00	100
Schedule III - Griff Johnson Road	540
Schedule IV - County Road 631	90
Alternate Schedule V - Drill and Blast Only Flarity Road STA 0+00 to STA 165+00	440
Alternate Schedule VI - Drill and Blast Only Flarity Road STA 165+00 to STA 204+00	100
Alternate Schedule VII - Drill and Blast Only Griff Johnson Road	540
Alternate Schedule VIII - Drill and Blast Only County Road 631	90

The Contractor further agrees to pay as liquidated damages, the sum of \$500.00 for each consecutive calendar day in default thereafter as hereinafter provided in the General Conditions.

4. The Contractor agrees to perform all of the Work described in the Contract Documents and comply with the terms therein for the sum of \$_____, or as shown in the Bid Schedule.

- 5. The term "Contract Documents" means and includes the following:
 - a. Advertisement for Bids
 - b. Information for Bidders
 - c. Bid
 - d. Bid Bond
 - e. Contract
 - f. General Conditions
 - g. Supplemental General Conditions
 - h. Payment Bond
 - i. Performance Bond
 - j. Notice of Award
 - k. Notice to Proceed
 - I. Change Order(s)
 - m. Drawings prepared by CTI Engineers, Inc., numbered as stipulated in section 00 01 15
 - n. Specifications prepared or issued by CTI Engineers, Inc., dated March 2024.
 - o. Addenda:

No.	, dated	, 20
No.	, dated	, 20

- 6. The Owner will pay to the Contractor in the manner and at such times as set forth in the General Conditions such amounts as required by the Contract Documents.
- 7. This Contract shall be binding upon all parties hereto and their respective heirs, executors, administrators, successors, and assigns.

IN WITNESS WHEREOF, the parties hereto have executed, or caused to be executed by their duly authorized officials, this Contract in four (4) copies each of which shall be deemed an original on the date first above written.

WITNESS:

OWNER: WALKER COUNTY WATER & SEWERAGE AUTHORITY

		Ву	
Name		Name	
	(Please Print or Type)	(Please Print or Type)	
Title		Title	

(SEAL)

ATTEST:	CONTRACTOR:
	Ву
Name (Please Print or Type)	Name (Please Print or Type)
Title	Address
	(SEAL)

Note: Attest for a corporation must be by the corporate secretary; for a partnership by another partner; for an individual by a Notary.

NOTICE TO PROCEED

То: _____

Project Description: consists of furnishing and delivering, and installing all materials, equipment, and products for the trenching for Flarity Road and Griff Johnson Road Water Line Extension, as shown on the Drawings and all associated appurtenances for a complete installation.

You are hereby notified to commence work in accordance with the Contract dated ______, 20____, on or before ______, 20____, and you are to complete the work within the consecutive calendar days listed in the table below. The date of completion of all work is therefore ______, 20___.

CONTACT TIMES TABLE	DAYS
Schedule I – Flarity Road STA 0+00 to STA 165+00	440
Schedule II - Flarity Road STA 165+00 to STA 204+00	100
Schedule III - Griff Johnson Road	540
Schedule IV - County Road 631	90
Alternate Schedule V - Drill and Blast Only Flarity Road STA 0+00 to STA 165+00	440
Alternate Schedule VI - Drill and Blast Only Flarity Road STA 165+00 to STA 204+00	100
Alternate Schedule VII - Drill and Blast Only Griff Johnson Road	540
Alternate Schedule VIII - Drill and Blast Only County Road 631	90

Dated this _____ day of _____, 20___.

WALKER COUNTY WATER & SEWERAGE AUTHORITY

Ву _____

Name _____

Title _____

00 55 00 -1.1

ACCEPTANCE OF NOTICE

Receipt of the above Notice to Procee	d is hereby ack	nowledged by	
	, this the	day of	<u>,</u> 20 <u>.</u>

Ву _____

Name _____

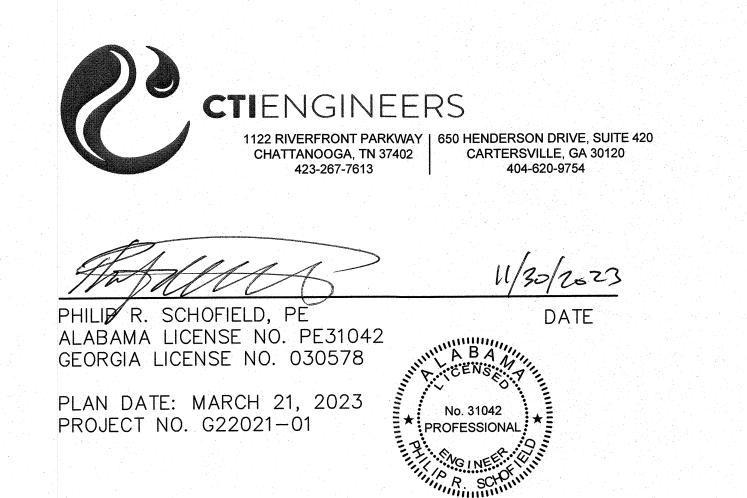
Title _____

WATER WORKS BOARD OF THE CITY OF FORT PAYNE, ALABAMA **COUNTY ROAD 631 WATERLINE EXTENSION**

DRAWING INDEX

TITLE **TITLE SHEET GENERAL NOTES**

OVERALL PLAN PROPOSED WATER LINE PLAN_ PROPOSED BOOSTER STATION SITE PLAN_____ STANDARD DETAILS **METER VAULT DETAILS BOOSTER PUMP STATION SECTIONS AND DETAILS BOOSTER PUMP STATION FOUNDATION LAYOUT_ BOOSTER PUMP STATION ELECTRICAL DETAILS**____ **ESPC DETAILS**_





REVISION NO NO. 1 NO. 2

DRAWING NO.

G101
G102
C101
C102
C102
D101-D102
D101 D102
D105
D104
D105

6-INCH WATER LINE EXTENSION AND WATER BOOSTER STATION COUNTY ROAD 631 DEKALB COUNTY, ALABAMA CONTIGUOUS DISTURBED AREA = 0.73 ACRE

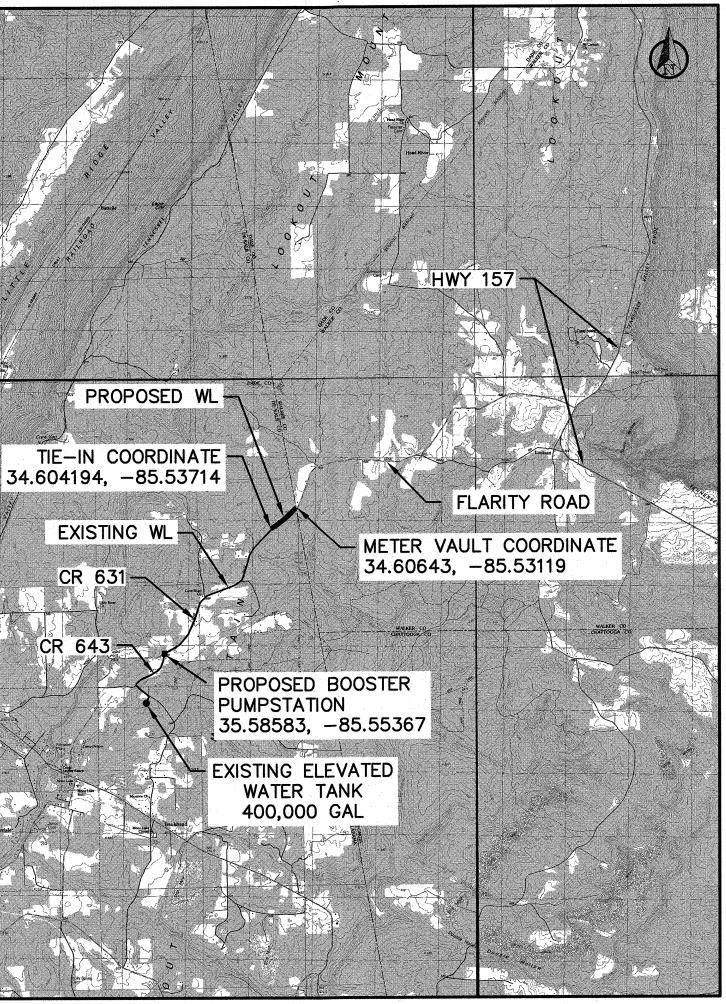
	An and the state of the second se	
0.	DATE	REQUESTED BY
	9/07/2023	FORT PAYNE WATER
	10/13/2023	FORT PAYNE WATER
ant ann ann. Ann a' ann ann ann ann ann ann ann ann an		



Know what's **below**. **Call** before you dig.

BOARD MEMBERS TERRY CAMP, CHAIRMAN DANA GOGGANS, VICE CHAIRMAN TONY DOBBS, SECRETARY WADE HILL, BOARD MEMBER STEVE MALCOM, BOARD MEMBER

BRANDON LIGHT, EXECUTIVE DIRECTOR



LOCATION MAI PREPARED FOR

WATER WORKS BOARD OF THE CITY OF FORT PAYNE 153 20TH STREET NE, FORT PAYNE, AL 35967 597 AL-117, MENTONE, AL35984 PHONE: (256) 845-0449

NOTES	PROJECT INFORMATION
	PROJECT:
VOU	COUNTY ROAD 631 WATERLINE EXTENSION
10: 06AM), LAYOUT:	CONTACT INFORMATION
6AM	FORT PAYNE REPRESENTATIVE: WATER WORKS BOARD OF THE CITY OF FORT PAYNE
10:0	NICK LEA 153 20TH STREET NE, FORT PAYNE, AL 35967
23	597 AL-117, MENTONE, AL35984 TEL - (256) 845-9113
(771093v56/3/24/23	EMAIL: NICK@FPWATER.COM
5/3/	WALKER CO. WATER AND SEWER REPRESENTATIVE: BRANDON WHITLEY
3v5(GENERAL MANAGER WALKER COUNTY WATER & SEWERAGE
7109	4665 HAPPY VALLEY ROAD FLINTSTONE, GA, 30725 TEL 423-421-2902
	CONSTRUCTION MANAGER:
(Alabama)	ANDREW THOMAS WALKER COUNTY WATER & SEWERAGE
(Alat	4665 HAPPY VALLEY ROAD FLINTSTONE, GA, 30725
631	TEL 423-421-2866
Road (PROJECT ENGINEER: CTI ENGINEERS, INC.
	PHILIP R. SCHOFIELD, P.E. 1122 RIVERFRONT PARKWAY
County	CHATTANOOGA, TN 37402 TEL: 423-267-7613
	FAX: 423-267-0603 EMAIL: PSCHOFIELD@CTIENGR.COM
G22021-01	24-HOUR CONTACT
3220	ANDREW THOMAS WALKER COUNTY WATER & SEWERAGE
	4665 HAPPY VALLEY ROAD FLINTSTONE, GA, 30725
DRAWING:	
	SURVEY INFORMATION SURVEY INFORMATION: THE TOPOGRAPHIC AND ELEVATION DATA SHOWN HEREON WAS OBTAINED
-01	FROM BEGINNING POINT SURVEYS AND IS NOT CERTIFIED AS CORRECT BY CTI ENGINEERS, USERS OF THIS DATA DO SO AT THEIR OWN RISK.
G22021-01,	BENCHMARK INFORMATION:
	ELEVATION DATUM: MEAN SEA LEVEL (NGVD 83)
PROJECT:	FLOOD MAP INFORMATION: THE SUBJECT PROJECT DOES NOT LIE WITHIN A FLOOD HAZARD AREA.
PRC	
СП	UTILITY INFORMATION: 1. LOCATIONS OF UTILITIES, PUBLIC AND/OR PRIVATE, ARE APPROXIMATE ONLY,
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	2.	THE CONTRACTOR IS RESPONSIBLE FOR ALL NOTIFICATIONS AN WITH UTILITY COMPANIES DURING THE PROCESS OF LOCATING, RE AND TYING INTO PUBLIC UTILITIES.
	3.	PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITIES, OF LAND DISTURBANCE SHALL BE CLEARLY AND ACCURATELY DE WITH STAKES, RIBBONS, OR OTHER APPROPRIATE MEANS. THESE LI BE ESTABLISHED ACCORDING TO THE PROCEDURES ESTABLISH GOVERNING AUTHORITY. THE LOCATION OF AND EXTENT OF ALL A LAND DISTURBANCE SHALL OCCUR INSIDE THE APPROVED DISTURBANCE.
	DU	RING CONSTRUCTION THE CONTRACTOR SHALL BE RESPO
	<u>FO</u> 1.	<u>R:</u> OBTAIN APPROVAL FROM THE ENGINEER FOR ANY DEVIATIONS FF PLANS. DEVIATIONS FROM THESE PLANS AND ANY A SPECIFICATIONS WITHOUT PRIOR WRITTEN CONSENT OF THE ENG CAUSE THE WORK TO BE UNACCEPTABLE.
	2.	USE MATERIALS AND EMPLOY CONSTRUCTION METHODS IN ORDER WITH THE DRAWINGS AND ANY ASSOCIATED SPECIFICATIONS. CONFLICT OCCURS, THE STRICTEST DESIGN SHALL GOVERN. THE F REVIEW OF SHOP DRAWINGS, PRODUCT DATA, ETC., DOES NOT RI CONTRACTOR FROM COMPLYING WITH THE CONTRACT DOCUM CONTRACTOR SHALL INFORM THE ENGINEER <i>IN WRITING</i> OF AN DEVIATIONS AND OBTAIN THE ENGINEER'S WRITTEN APPROVA SPECIFIC DEVIATION <i>PRIOR TO THE CONSTRUCTION OF THE DEVIATION</i>
	3.	IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW A CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION
	4.	ALL CONSTRUCTION MUST CONFORM TO THE STANDARDS, SPEC AND CODES OF THE GOVERNING MUNICIPALITIES.
	5.	IF THE CONTRACTOR DAMAGES ANY EXISTING UTILITIES CONSTRUCTION, THE CONTRACTOR SHALL, AT THEIR OWN EXPENSIOR REPAIR THE UTILITIES TO THE ORIGINAL CONDITION AND QUA APPROVED BY THE OWNER AND REPRESENTATIVE OF THE AP UTILITY COMPANY.
	6.	IF THE CONTRACTOR DAMAGES ANY EXISTING SITE FEATURE CONSTRUCTION, THE CONTRACTOR AT THEIR OWN EXPENSE, RI REPAIR THE FEATURES TO ORIGINAL CONDITION AND QUALITY AS BY THE OWNER OR THEIR DESIGNATED REPRESENTATIVE.
	7.	ON-SITE BURIAL OF DEBRIS IS PROHIBITED.
IED	8.	UNLESS OTHERWISE NOTED THE CONTRACTOR SHALL SUE DRAWINGS OF ALL FABRICATED MATERIALS TO THE ENGINEER FO DESIGN DOCUMENTS SHALL NOT BE REPRODUCED AS SHOP DRAWIN
BY	9.	IN CASE OF UNFORESEEN CONSTRUCTION COMPLICAT DISCREPANCIES, THE CONTRACTOR IS TO IMMEDIATELY NOTIFY THE IN WRITING.
	10.	ALL REQUIRED TESTING REPORTS SHALL BE AVAILABLE AT THE JOB
	11.	RECORD DRAWINGS OF ROADWAYS, STORM DRAINS, SANITARY S WATER LINES, AND ALL APPLICABLE BONDS, AND PROJECT DOCUMENTS ARE REQUIRED PRIOR TO FINAL ACCEPTANCE BY THE
ONLY, IT IS	12.	UNLESS OTHERWISE NOTED ON THE DRAWINGS OR SPECIFICATION AREAS MUST BE COMPACTED TO MINIMUM 95% STANDARD PROCTO
HESE ALL THE	13.	CONTRACTOR SHALL MAINTAIN CONTINUOUS UTILITY SERVIC EXISTING BUILDINGS THROUGHOUT CONSTRUCTION UNLESS APPI SERVICE INTERRUPTION IS OBTAINED FROM THE OWNERS IN ADVAN
	14.	CUT AND FILL SLOPES SHALL NOT EXCEED 2:1 H:V.
r to Ctor Durs Dual		AFFIC THE CONTRACTOR WILL BE ALLOWED TO CLOSE THE IN WORK ARE THE DAY BUT RE-OPEN AT THE END OF THE DAY.
THE	2.	PRIOR TO CLOSING THE ROAD TO THROUGH TRAFFIC, THE CO

- CLOSURE. THOSE TO BE CONTACTED SHALL INCLUDE, BUT NOT BE LIMITED TO. THE FOLLOWING: FIRE DEPARTMENT, POLICE DEPARTMENT, SHERIFF'S DEPARTMENT, POST OFFICE, TRAFFIC ENGINEER'S OFFICE, AND THE BOARD OF EDUCATION.
- 3. SUFFICIENT BARRICADES, LIGHTS, SIGNS, AND OTHER TRAFFIC CONTROL METHODS IN ACCORDANCE WITH GOVERNING ORDINANCES MAY BE NECESSARY FOR THE PROTECTION AND SAFETY OF THE PUBLIC. SAID CONTROL DEVICES SHALL BE PER THE MANUAL OF TRAFFIC CONTROL DEVICES, M.U.T.C.D., CURRENT EDITION, AND SHALL BE PROVIDED AND MAINTAINED THROUGHOUT CONSTRUCTION.
- 4. TRAFFIC CONTROLS AND OTHER WARNING DEVICES SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF ANY WORK ON CITY, COUNTY, OR ALABAMA DEPARTMENT OF TRANSPORTATION ROADS. THEY SHALL BE MAINTAINED THROUGH OUT CONSTRUCTION AND SHALL REMAIN IN PLACE UNTIL THE CONCLUSION OF ALL WORK.
- 5. ALL WARNING DEVICES SHALL BE EITHER TYPE I BARRICADES OR DRUMS WITH WARNING LIGHTS ON EVERY OTHER DEVICE. THEY SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), CURRENT EDITION, AND THE STANDARDS OF THE GOVERNING AUTHORITY FOR COLOR, SIZE, REFLECTIVITY, HEIGHT, AND PLACEMENT.
- 6. FIRE DEPARTMENT ACCESS SHALL BE MAINTAINED AT ALL TIMES.

DEMOLITION AND ABANDONMENT INFORMATION NOTIFICATIONS:

THE CONTRACTOR SHALL NOTIFY AND COORDINATE WITH THE WATER WORKS BOARD OF THE CITY OF FORT PAYNE AND THE WALKER COUNTY WATER AND SEWERAGE AUTHORITY BEFORE SCHEDULING WORK ASSOCIATED WITH ABANDONING EXISTING WATER LINES.

DISPOSAL GUIDELINES

- ONLY ITEMS SPECIFICALLY NOTED SHALL BE REMOVED, DEMOLISHED, OR ABANDONED.
- 2. ALL DEBRIS RESULTING FROM DEMOLITION SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY BY THE CONTRACTOR. BACKFILL ALL TRENCHES AND EXCAVATIONS RESULTING FROM DEMOLITION.
- 3. ALL DEMOLISHED MATERIAL BECOMES THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE NOTED.

TREE REMOVAL AND PROTECTION GUIDELINES

LARGE DIAMETER TREES SCHEDULED FOR REMOVAL ARE MARKED ON THE WHERE NEW DUCTILE IRON WATER LINE CROSSES EXISTING STEEL GAS LINE, PLANS. LARGE DIAMETER TREES ALONG THE PROPOSED ROUTE OF THE THE DUCTILE IRON PIPE LINE SHALL BE ENCASED IN POLYETHYLENE WATER LINE THAT ARE UNDER, OVER, OR ADJACENT TO EXISTING POWER, (POLY-WRAP) IN ACCORDANCE WITH ANSI/AWWA C105/A21.5 THROUGH THE PHONE, AND CABLE LINES SHALL BE CUT AND REMOVED BY LICENSED AND AREA OF STRAY CURRENT INFLUENCE AND A MINIMUM OF 20 FEET FROM BONDED TREE CUTTING CONTRACTORS. PAYMENT FOR LARGE TREE REMOVAL CROSSING. WILL BE PER EACH TREE.

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- EAS DURING
- ONTRACTOR SHALL NOTIFY ALL AFFECTED LOCAL AGENCIES ABOUT THE PROPOSED ROAD

2. CONTRACTOR SHALL PERFORM PIPE INSTALLATION IN A MANNER THAT MINIMIZES DAMAGE TO ALL OTHER EXISTING TREES ADJACENT TO THE PERMANENT EASEMENT. TREES WHICH ARE DAMAGED WILL BE REPLACED OR REIMBURSED AT A RATE TO BE DETERMINED BY THE OWNER.

UTILITIES:

- PRIOR TO REMOVING OR ABANDONING ANY UTILITY THE CONTRACTOR SHALL VERIFY THAT NO SERVICE WILL BE TERMINATED.
- 2. THE CONTRACTOR SHALL NOTIFY THE OWNERS OF THE EXISTING UTILITIES REGARDING ANY POTENTIAL CONFLICTS BEFORE EXCAVATING AROUND EXISTING UTILITIES.

GRADING AND EXCAVATION:

- FINISHED GRADES ON PROFILES ARE THE SAME AS FINISHED GRADES SHOWN ON TYPICAL SECTIONS AND ON CROSS SECTIONS.
- THE COST OF REMOVAL AND DISPOSAL OF EXISTING FLEXIBLE PAVEMENT ENCOUNTERED IN THE PROGRESS OF THE WORK AND NOT COVERED IN OTHER BID ITEMS SHOWN ON PLANS, SHALL BE INCLUDED IN THE COST OF OTHER ITEMS
- WHEN SPECIFIED GRADING REQUIREMENTS ARE NOT SHOWN ON THE DRAWINGS, THE CONTRACTOR SHALL GRADE ALL AREAS DISTURBED BY CONSTRUCTION, TO DRAIN AND TO MATCH THE EXISTING, ADJACENT GROUND.
- 4. ON THE PROJECT, NEWLY GRADED, EARTH AREAS NOT TO BE PAVED, RIP-RAPPED, OR STABILIZED SHALL BE SEEDED IN ACCORDANCE WITH THE SPECIFICATIONS.
- 5 THE CONTRACTOR IS TO DISPOSE OF, AT THEIR OWN EXPENSE, ALL UNSUITABLE AND/OR SURPLUS, EXCAVATED MATERIAL.
- EXCAVATION ADJACENT TO EXISTING PAVEMENT SHALL BE MADE TO A NEAT 6. SAW-CUT LINE.

EROSION AND POLLUTION CONTROL

- THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO CONTROL EROSION AND WATER POLLUTION THROUGH THE CONSTRUCTION PERIOD. ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE IN PLACE BEFORE EARTH MOVING OPERATIONS BEGIN. CLEARING AND GRUBBING SHALL BE HELD TO A MINIMUM WIDTH NECESSARY TO ACCOMMODATE THE CONSTRUCTION OF THE PROJECT. EXCAVATED AREAS SHALL BE PROMPTLY STABILIZED TO MINIMIZE EROSION. BALED STRAW EROSION CHECKS AND SILT FENCES SHALL BE USED ALONG THE TOE OF FILL SLOPES, IN DITCHES, AND IN OTHER AREAS WHERE EROSION IS A PROBLEM AND SILT-LADEN RUN-OFF MAY ENTER A STREAM OR ADJACENT PROPERTY.
- ANY STOCKPILED SOIL OR FILL MATERIAL SHALL BE LOCATED AND TREATED IN 2. A MANNER TO PREVENT SILT ENTERING STREAMS. NO EXCAVATED MATERIAL SHALL BE DISCHARGED INTO DITCHES. THE CONTRACTOR SHALL DISPOSE OF ALL EXCAVATED MATERIAL IN A LOCATION, APPROVED BY THE ENGINEER, ABOVE THE NORMAL HIGH WATER ELEVATION.
- 3. THE CONTRACTOR MUST INSTALL EROSION AND SEDIMENT CONTROL AND MAINTAIN CONTROLS UNTIL THE ESTABLISHMENT OF FINAL VEGETATIVE COVER. THIS WILL INCLUDE SILT FENCING, HAY BALES, SLOPE STABILIZATION FABRIC, ETC. TO MINIMIZE SEDIMENT IN THE RUNOFF.
- 4. WITHIN THE UNIT PRICE FOR EACH EROSION CONTROL ITEM, THE CONTRACTOR IS EXPECTED TO MAINTAIN THE EROSION CONTROL MEASURES THROUGHOUT THE LENGTH OF THE CONTRACT AS REQUIRED.
- THE CONTRACTOR SHALL PROVIDE TEMPORARY EROSION AND WATER 5. CONTROL MEASURES (SUCH AS BERMS, SEDIMENT BASINS, SLOPE DRAINS, HAY BALES, AND SILT FENCES) AS REQUIRED BY LAW TO PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION SITE. THESE TEMPORARY MEASURES SHALL BE COORDINATED WITH THE PERMANENT EROSION CONTROL FEATURES TO ASSURE ECONOMICAL, EFFECTIVE, AND CONTINUOUS EROSION CONTROL THROUGHOUT THE PROJECT.
- 6. DRAINAGE WATER FROM DEWATERING EXCAVATIONS THAT CONTAINS MUD OR SEDIMENT SHALL NOT BE DISCHARGED DIRECTLY INTO DITCHES OR CREEKS. FILTER SUCH WATER USING APPROPRIATE SEDIMENT TRAPS PRIOR TO DISCHARGE. NO SEPARATE PAYMENT WILL BE MADE FOR COMPLYING WITH THIS REQUIREMENT, UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL RESTORE/STABILIZE DISTURBED PROPERTY (PER THE 7. ESPC PLANS) DAILY AFTER PIPE INSTALLATION.

RIGHTS-OF WAY/EASEMENTS

- BEFORE THE CONSTRUCTION BEGINS, THE AUTHORITY SHALL ATTEMPT TO SECURE ALL RIGHTS-OF-WAY AND EASEMENTS REQUIRED FOR COMPLETION OF THE PROJECT. COPIES OF THE EASEMENT AGREEMENT AND ASSOCIATED DOCUMENTS SHALL BE GIVEN TO THE CONTRACTOR.
- THE WATER LINES IN CONTRACT ARE TO BE INSTALLED IN 20' WIDE PERMANENT 2. EASEMENTS. THE WIDTHS OF CONSTRUCTION EASEMENTS MAY VARY. EASEMENTS ARE NOT SHOWN ON PLANS.

MISCELLANEOUS

FENCING

- 1. THE CONTRACTOR SHALL PERFORM THE PIPE INSTALLATION IN A MANNER TO MINIMIZE DAMAGE TO THE EXISTING FENCES ALONG THE PROPOSED WATER LINE ALIGNMENT.
- THE CONTRACTOR SHALL NOT BE ALLOWED TO REMOVE ANY FENCE OTHER THAN THAT NECESSARY FOR THE CONSTRUCTION OF THE NEW WATER LINE OR RELATED APPURTENANCES. ANY FENCE REMOVED IS TO BE REPLACED IN KIND BY THE CONTRACTOR.
- THE CONTRACTOR SHALL COORDINATE WITH THE AFFECTED PROPERTY OWNERS PRIOR TO CUTTING FENCES. AT THE PROPERTY OWNERS REQUEST, A TEMPORARY FENCE WILL BE PROVIDED AT THE LIMITS OF CONSTRUCTION, PAYMENT FOR TEMPORARY FENCING SHALL BE PAID BY THE LINEAR FOOT.

CONCRETE

1. ALL CONCRETE SHALL BE CLASS "A" (4,000 PSI) UNLESS OTHERWISE NOTED ON THE PLANS OR DETAILS. CLASS "B" CONCRETE SHALL BE 3,000 PSI.

STRAY CURRENT FROM EXISTING STEEL GAS MAINS

1. WELD 100LB MAGNESIUM ANODE TO NEW CASING PIPE NEAR THE GAS LINE CROSSING

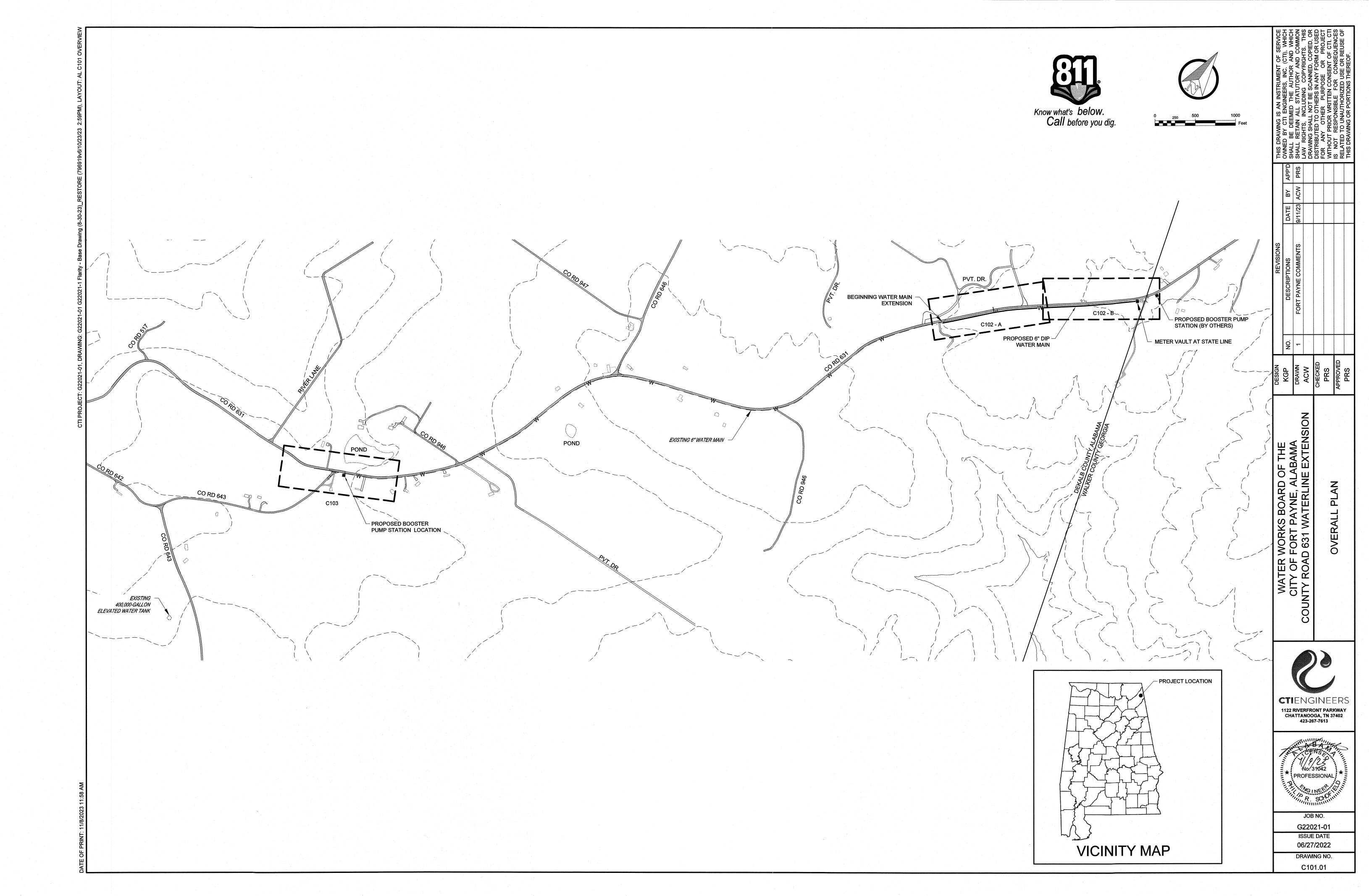
3. THE CONTRACTOR SHALL NOTIFY THE LOCAL GAS AUTHORITY PRI EXCAVATING WITHIN 10 FEET OF THE EXISTING STEEL GAS MAIN.

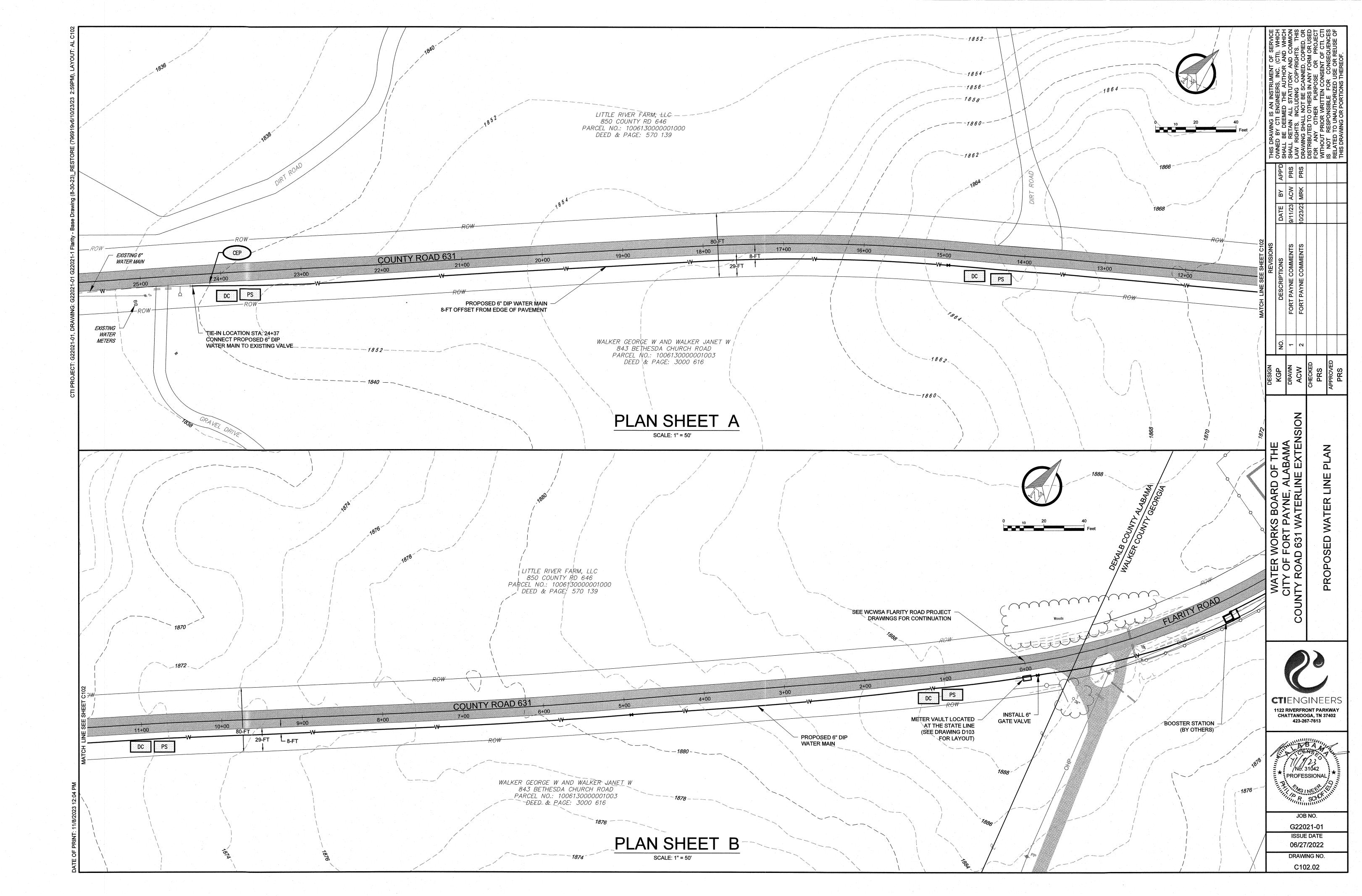
TRENCH ROCK DRILLING, BLASTING, AND EXCAVATION THE CONTRACTOR SHALL USE AN INDEPENDENT CONTRACTOR TO PE PRE-BLAST SURVEYS ON EXISTING STRUCTURES WITHIN THE APPL DISTANCE FROM THE PROPOSED BLASTING ZONE.

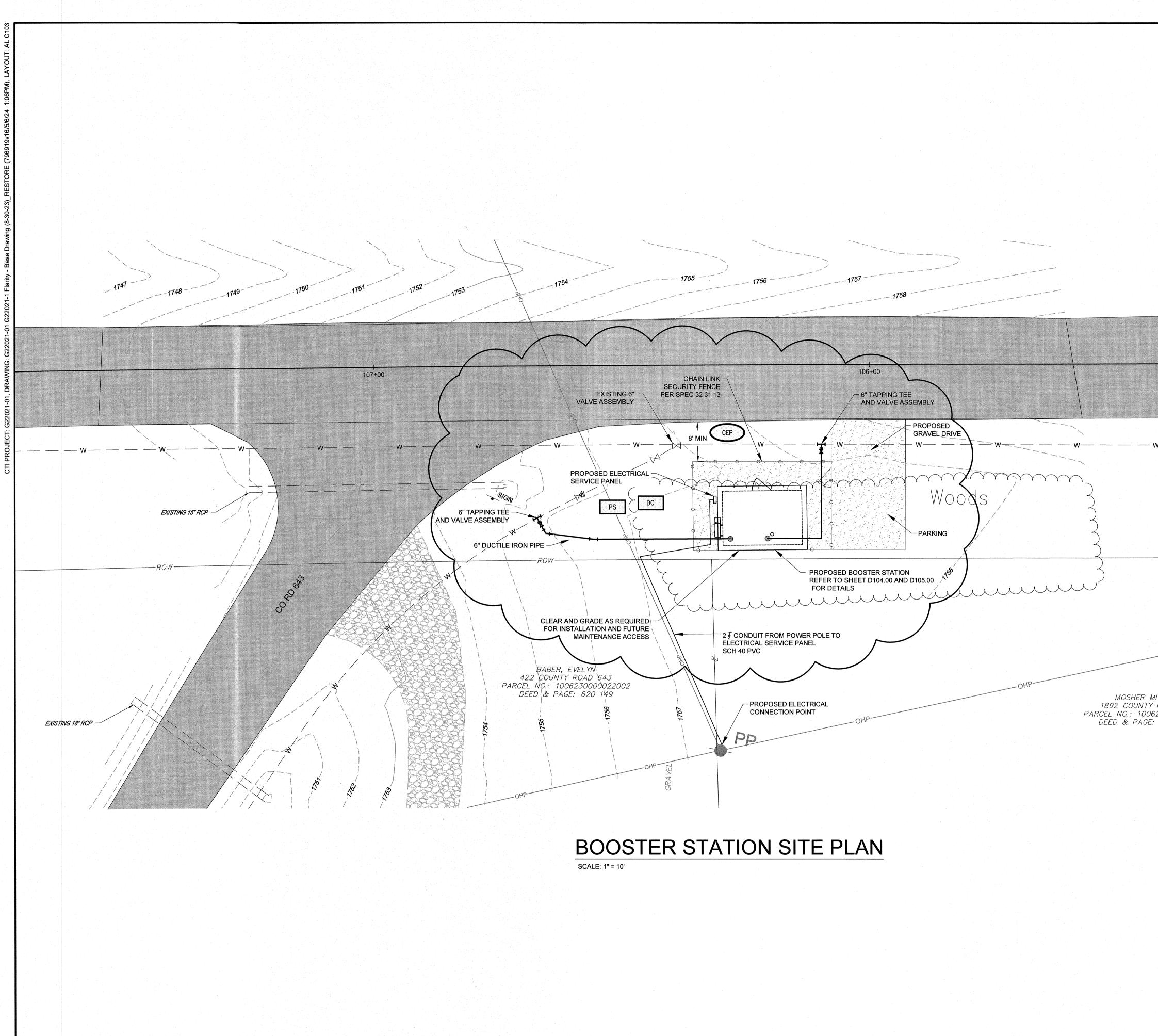
- 2. THE CONTRACTOR SHALL SUBMIT A DETAILED BLASTING PLAN ENGINEER FOR APPROVAL PRIOR TO BEGINNING BLASTING OPERATIONS
- 3 ALL EXCAVATED ROCK MATERIAL THAT IS UNSUITABLE FOR TRENCH B/ SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY CONTRACTOR.
- HISTORIC ARCHAEOLOGICAL AND ARCHITECTURAL RESOURCES 1. IF ARCHAEOLOGICAL MATERIALS ARE ENCOUNTERED DURING CONSTR THE PROCEDURES CODIFIED AT 36 CFR 800.13(B) WILL ARCHAEOLOGICAL MATERIALS CONSIST OF ANY ITEMS, FIFTY YEARS OLDER, WHICH WERE MADE OR USED BY MAN. THESE ITEMS INCLUDE I NOT LIMITED TO, STONE PROJECTILE POINTS (ARROWHEADS), C SHERDS, BRICKS, WORKED WOOD, BONE AND STONE, METAL, AND OBJECTS. THE FEDERAL AGENCY OR THE APPLICANT RECEIVING F ASSISTANCE SHOULD CONTACT OUR OFFICE IMMEDIATELY. IF HUMAN R ARE ENCOUNTERED, THE PROVISIONS OF THE ALABAMA BURIAL ACT (CO ALABAMA 1975, §13A-7-23.1, AS AMENDED; ALABAMA HISTORICAL COMM ADMINISTRATIVE CODE CHAPTER 460-X-10 BURIALS) SHOULD BE FOLLOW

EXISTING	PROPOSED
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— — — OHP — — —	OHP
— — — UGT — —	UGT
00000	00000
	
ROW	ROW
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W	W
— — NW — —	NW
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— — — GAS— — —	GAS
P	P
EXISTING PROPOSED	
	UTILITY POLE/GUY POLE
$\dot{\mathbf{x}}$	LIGHT POLE
\prec \prec	GUY ANCHOR
	MARKER
X	SPLICE BOX
	CABINET
	VENT
	ELECTRIC MANHOLE
H	HAND HOLE
E	TRANSFORMER
	ELECTRIC METER
E	ELECTRIC BOX
	TRANSMISSION TOWER
	TELECOMMUNICATIONS MAN
	TELECOMMUNICATIONS PEDE
	PHONE BOOTH
Ϋ́ΥΫ́ΥΫ́ΥΫ́ΥΫ́ΥΫ́ΥΫ́ΥΫ́ΥΫ́ΥΫ́	CABLE TV PEDESTAL
	CABLE TV PEDESTAL
	WATER VALVE
	WATER METER
	WATER MANHOLE
	STORM MANHOLE

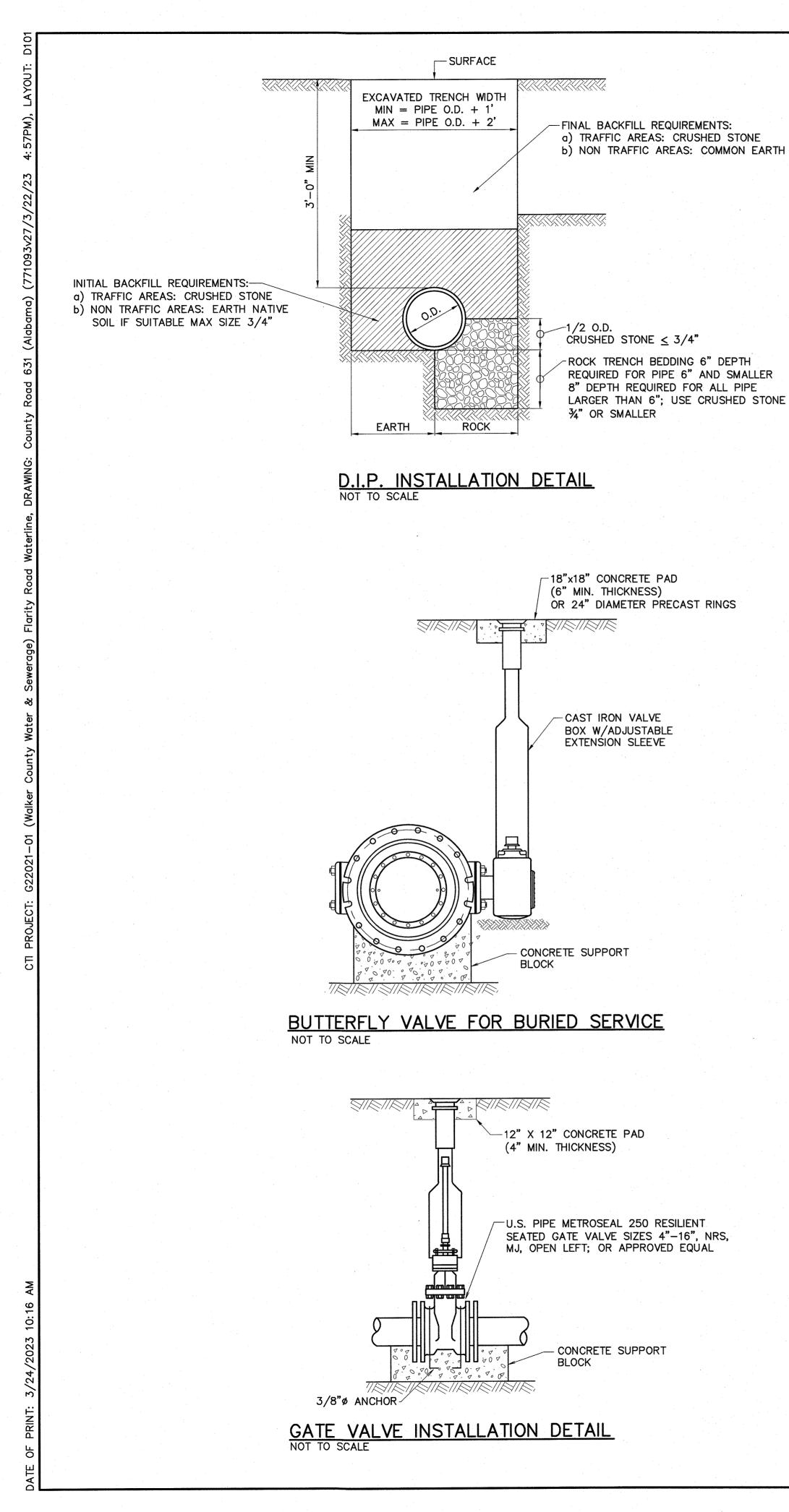
RIOR TO PERFORM PLICABLE TO THE NS. BACKFILL BY THE S RUCTION, APPLY. S OLD OR BUT ARE		NG IS AN INSTRUMEN		DRAWING SHALL NOT BE SCANNED, COPIED, OR DISTRIBUTED TO OTHERS IN ANY FORM OR USED FOR ANY OTHER PURPOSE OR PROJECT WITHOUT PRIOR WRITTEN CONSENT OF CTI. CTI IS NOT RESPONSIBLE FOR CONSEQUENCES RELATED TO UNAUTHORIZED USE OR REUSE OF THIS DRAWING OR PORTIONS THEREOF.
CERAMIC D GLASS FEDERAL REMAINS CODE OF MMISSION DWED.			DATE BY APP'D 9/11/23 ACW PRS	
LEGNED			DATE 9/11/23	
	ABBREVIATIONS	SNOISI	TIONS COMMENTS	
ELECTRIC	PVC - POLYVINYL CHLORIDE	REVI	NOIL	
UNDER GROUND ELECTRIC	DIP – DUCTILE IRON PIPE			
OVER HEAD TELEPHONE/ CABLE	RCP - REINFORCED CONCRETE PIPE		DESCRII FORT PAYNE	
OVER HEAD POWER/ CABLE	CMP – CORRUGATED METAL PIPE		EOF	
	CPP – CORRUGATED PLASTIC PIPE			
GUARD RAIL			0 - N	
FENCE				
ROW OF WAY LINE		DESIGN	RBB DRAWN ACW	CHECKED PRS APPROVED PRS
PROPERTY LINE		Ð	R R A	APPI P
WATER				
NON-POTABLE WATER			Z	
STORM DRAIN			SIC	
			」 ≷ Ž	
SANITARY SEWER			ABAMA E EXTENSION	
FORCE MAIN		ЦС		
GAS				
PETROLEUM				NOTES
EXISTING PROPOSED		à	コンレン	JL I
	FIRE HYDRANT ASSEMBLY	N K	$\langle \mu \rangle$	
φ <u>φ</u>	(INCLUDES ASSOCIATED VALVE)		0R ⁻ 631	
BFP	BACKFLOW PREVENTER		Ч Ч Ц Ц Ц Ц	
PIV	PRESSURE INDICATOR VALVE		J Q Q	
ARV	AIR RELEASE VALVE		ς Έ μ	
	WELL		> U L	
W	WATER VAULT		COUN	
	WATER VALVE MARKER		C C	
	STAND PIPE			
	CLEANOUT			
S O	SANITARY SEWER MANHOLE			
GT	GREASE TRAP			
(\$)	SANITARY SEWER FORCE MAIN VALVE		TIEN	GINEERS
	GAS VALVE		1122 RIVERF	RONT PARKWAY
NHOLE @ @	GAS METER			267-7613
	GAS MANHOLE		unt	BAM.
DESTAL GPR GPR	GAS PRESSURE REGULATOR		ALL ALL ALL	ENSERT
G	GAS VAULT			. 31042
GTS	GAS TEST STATION		PROFI	essional *=
	PETROLEUM VALVE			SCHOLIN
	MAIL BOX		and the second second	SCHLin
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\rightarrow \rightarrow	SIGN		ISSL	2021-01 JE DATE
	SIGN TREE/ SHRUB		ISSU 03/2	021-01

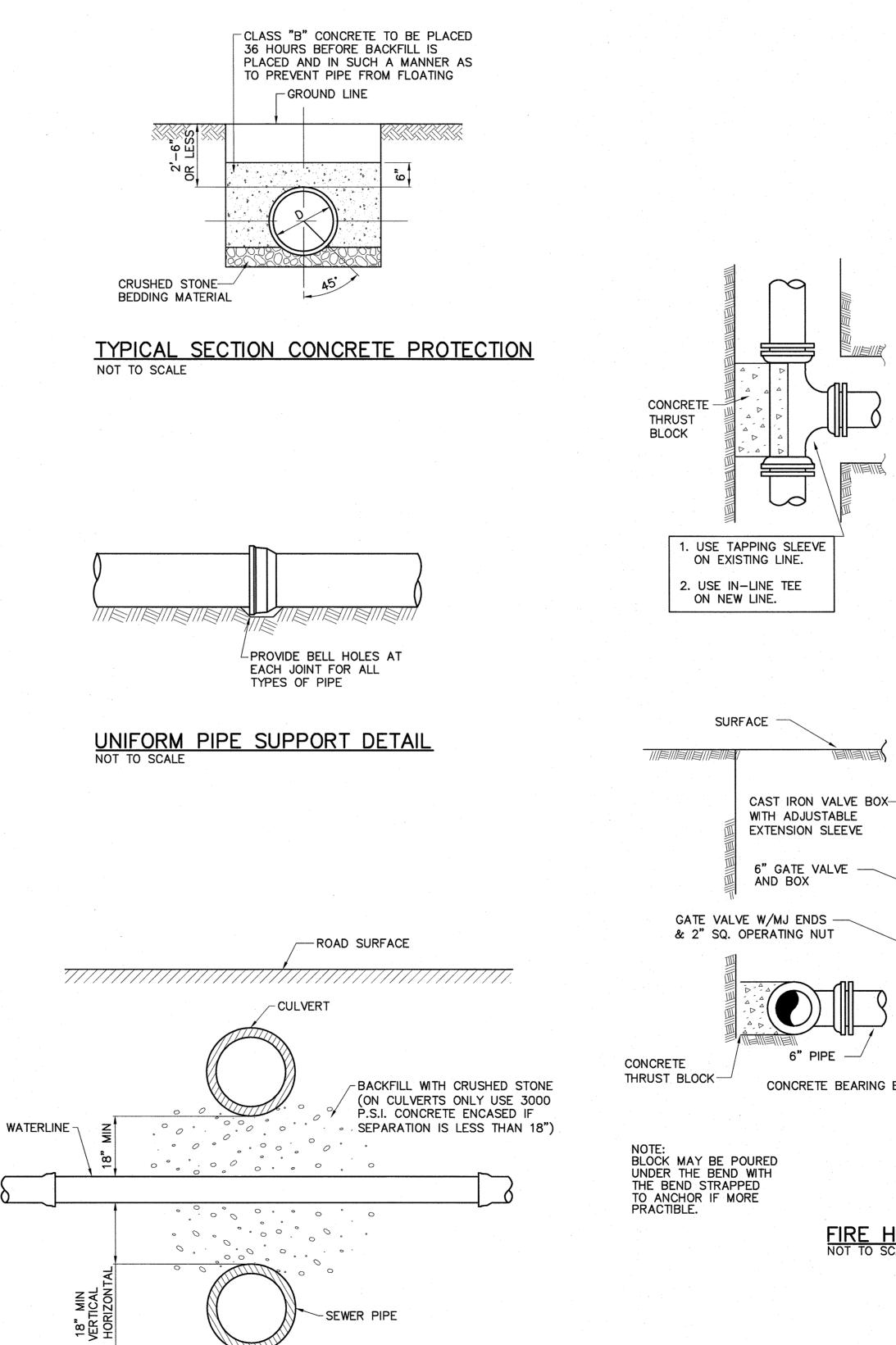






				OHP VAEL DAD 631 0000022000 001 373				
				-ROW			COUNTY F	
					W 5" WATER MAIN		ROAD 631	
anya ya dagaa aha ya aha ya aha ya				OHP			0 	
					W		5 10	
								D
				ROW	W		20 Feet	20
		A A A A A A A A A A A A A A A A A A A	11:		DESIGN			THIS DRAWING IS AN INSTRUMENT OF SERVICE OWNED BY CTI ENGINEERS, INC. (CTI), WHICH
	G22 ISS 06/2 DRA	PROF	TIEN 22 RIVERI HATTANI 423	COUNTY ROAD 631 WATERI INF EXTENSION	_	2 - 0	9/11/23 ACW	SHALL SHALL LAW R
	2021- UE DA 27/20 WING 103.0	B ENS ESSIC 9 INE SCOB NO	RONT			v m	ADEM COMMENTS 5/1/24 WEP PR	PRS DRAWING SHALL NOT BE SCANNED, COPIED, OR PRS DISTRIBUTED TO OTHERS IN ANY FORM OR USED
	-01 .TE 022 NO	12 DNAL	PARKWA	PROPOSED BOOSTER STATION SITE PLANS	PRS			WITHOUT PRIOR WRITTEN CONSENT OF CTI. CTI IS NOT RESPONSIBLE FOR CONSEQUENCES
			AY		PRS			THIS DRAWING OR PORTIONS THEREOF.



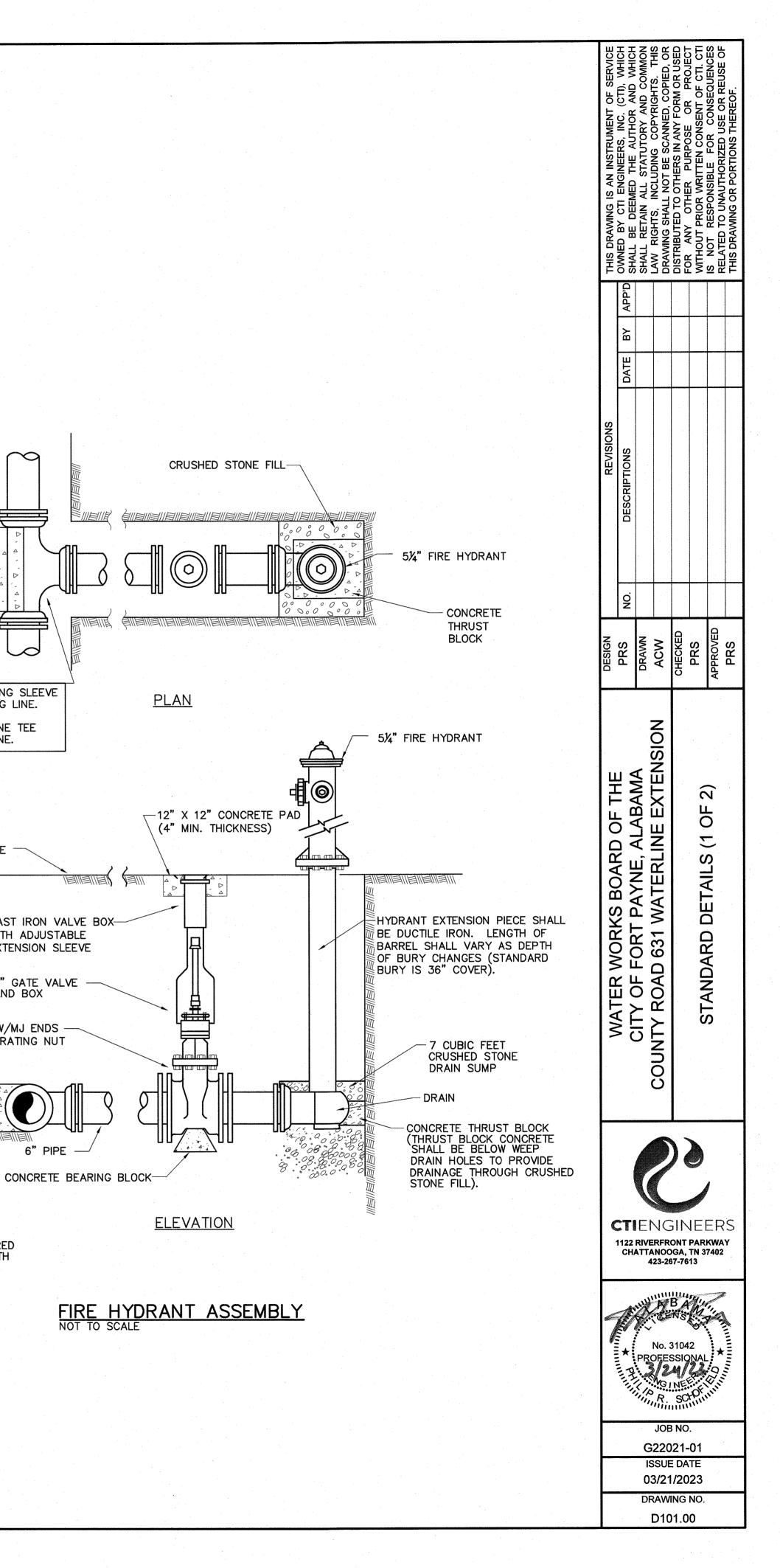


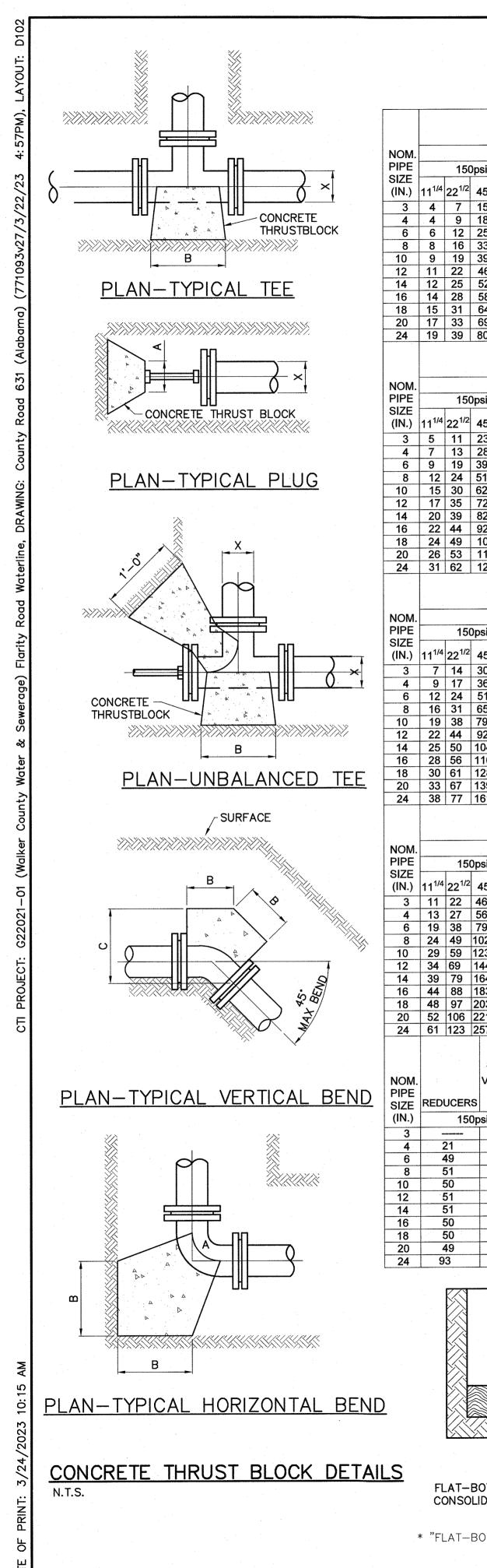
SEWER PIPE

DETAIL OF INSTALLATION UNDER CULVERT OR OVER SEWER PIPE

NOT TO SCALE

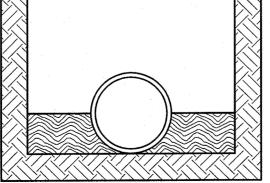
6" PIPE





TYPE 2 BEDDING

	HORIZONTAL & VERTICAL UP (NON-ENCROACHING) BENDS ELBOWS (DEGREES)											
NOM. PIPE		150)psi		ELBO	·	DEGI)psi	REES	() 	250	nei	
SIZE	1/4				1/4		-		1/4			
(IN.)		22 ^{1/2}	45	90		22 ^{1/2}	45	90		22 ^{1/2}	45	90
3	4	7 9	15 18	36 43	5 6	10 12	20 24	48 58	6 7	12 14	25 30	60 72
6	6	12	25	61	8	16	34	82	10	20	42	102
8	8	16	33	79	10	21	43	105	13	26	54	131
10 12	9 11	19 22	39 46	95 110	12	25 29	52 61	126 147	16 18	31 37	65 76	158 228
14	12	25	52	126	17	33	69	168	21	42	87	209
16	14	28	58	140	18	37	77	187	23	46	97	234
18	15	31	64	154	20	41	85 93	206 224	25 28	51 56	107 116	257 279
20 24	17 19	33 39	69 80	168 194	22 25	44 51	107	259	32	64	134	
	VERTICAL DOWN											
	(NON-ENCROACHING) BENDS											
NOM. PIPE		450)i	I	ELBO	WS (REES)	250		
SIZE			Opsi				Opsi			250	psi	
(IN.)	11 ^{1/4}	22 ^{1/2}	45	90		22 ^{1/2}	45	90	11 ^{1/4}	22 ^{1/2}	45	90
3	5	11	23	56	2	3	6	15	2	4	8	20
4	7 9	13 19	28 39	67 95	2	4	8 11	18 26	2	5 7	10 14	25 35
8	9 12	19 24	<u>39</u> 51	95	3	5	14	34	4	9	14	35 45
10	15	30	62	149	4	8	17	41	5	11	22	54
12	17	35	72	174	5	10	20	48	6	13	26	64
14 16	20 22	39 44	82 92	198 221	5 6	11	23 25	55 61	7	14 16	30 34	73 82
18	24	49	101	245	7	14	28	68	9	18	38	91
20	26	53		266	7	15	31	74	10	20	41	99
24	31	62	129 \	310 /ERT	9 ICAL	<u>17</u> UP (E	36 INCR	87 0AC	11 HING	23	48	116
			&	COM	BINE (O	D VE VER	RTIC OBJE	AL OI CT)	FFSE	Ť		
NOM. PIPE		150	Opsi		ELBO	WS (DEGF Opsi	REES)	250	nsi	
SIZE		·										
(IN.)		22 ^{1/2}		90	1	22 ^{1/2}	45	90	1	22 ^{1/2}	45	90
3	7 9	14 17	30 36	72 87	8 10	18 22	39 47	95 115	11	23 28	49 59	119 144
4	12	24	51	123	15	31	67	162	19	40	84	203
8	16	31	65	157	20	41	86	209	25	51	108	261
10	19	38	79	190	24	49	104	252	30	62	130	315
12 14	22 25	44 50	92 104	221 251	28 32	58 66	121 138	294 334	35 40	72 82	152 173	367 418
16	28	56	116	280	36	73	154	373	45	92	193	466
18	30	61	128	309	40	81	169	410	50	101	212	513
20 24	33	67 77	139 161	335 388	43 50	88 102	184 213	446 516	54 63	110 128	231 267	558 646
27	00		V	ERTI	CALE	NOC	I (EN	CRO	ACHI	NG)	201	
				& CO		ED V DER			DEES	ET		
NOM.					ELBC	ows (REES	5)			
PIPE SIZE		150	Opsi			1	Opsi			250	psi	
(IN.)	11 ^{1/4}	22 ^{1/2}	45	90	11 ^{1/4}	22 ^{1/2}	45	90	11 ^{1/4}	22 ^{1/2}	45	90
3	11	22	46	112	14	29	61	148	17	36	76	185
4	13	27 38	56 79	135 191	17 24	35	73 104	178 253	21 30	44 62	92 131	223 317
6 8	19 24	38 49	79 102	191 246	31	64	135	327	39	81	169	409
10	29	59	123	297	38	78	163	395	48	98	204	494
12	34	69	144	347	45	91	191	462	56	114	239	578
14 16	39 44	79 88	164 183	396 443	51 57	104	218 244	527 590	64 72	130 146	273	659 737
18	44	97	203	489	63	129	269	651	79	161	337	814
20	52	106	221	553	69	140	293				367	
24	61	123	257	621	80	164	342	826	101	205	427	1033
			TE	EES,			TE	EES,			TE	EES,
NOM.	:		VA	LVES	,		VA	LVES			VA	LVES
PIPE SIZE	RED	UCER		EAD-	RED	UCER		EAD- NDS	RED	UCER		EAD- NDS
512E (IN.)			Opsi			200				250		
3	-			56	-		· [·	74				93
4		21		67		29		90	36			12
6	1	49 51		95 123		6 69		27 64	82			159 205
8 10		51 50		49	1	59 56		98	83			205
12		51	-	74	6	8	2	31	85	· ·	2	289
14		51		198	1	8		264	84			30
<u>16</u> 18		50 50		221		87 86		295 26	84 83			69 08
20	<u> </u>	49	2	66	6	6	3	55	82		4	44
24		3		810	1	24	4	14	15	5	5	517
				-	· · ·			-				



TYPE 2 BEDDING FLAT-BOTTOM TRENCH*. BACKFILL LIGHTLY CONSOLIDATED TO CENTERLINE OF PIPE.

* "FLAT-BOTTOM" IS DEFINED AS "UNDISTURBED EARTH".

TYPE 3 BEDDING

NOM.

PIPE

SIZE

(IN.)

NOM.

PIPE

SIZE

(IN.)

NOM. PIPE

SIZE

(IN.)

NOM.

PIPE

SIZE

NOM.

PIPE

(IN.)

3

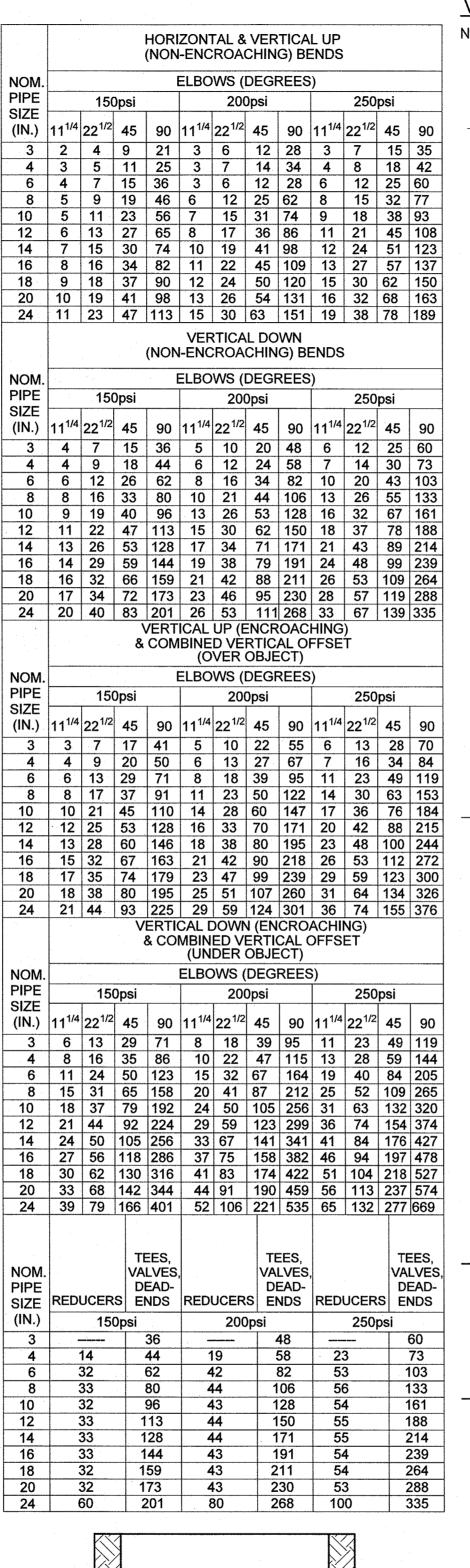
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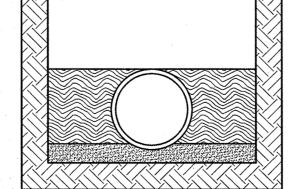
18

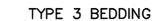
20

24

VERTICAL DOWN (NON-ENCROACHING)

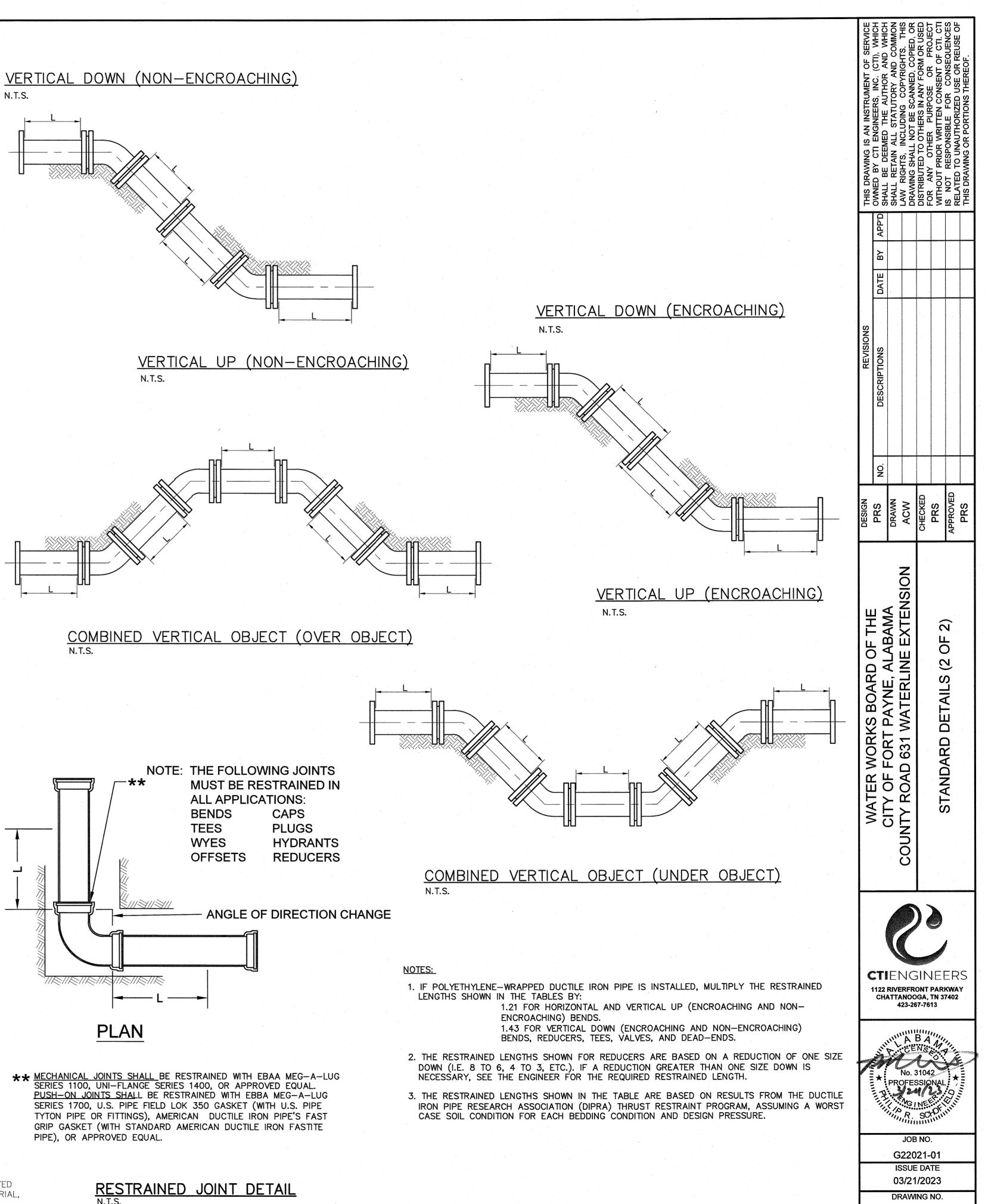




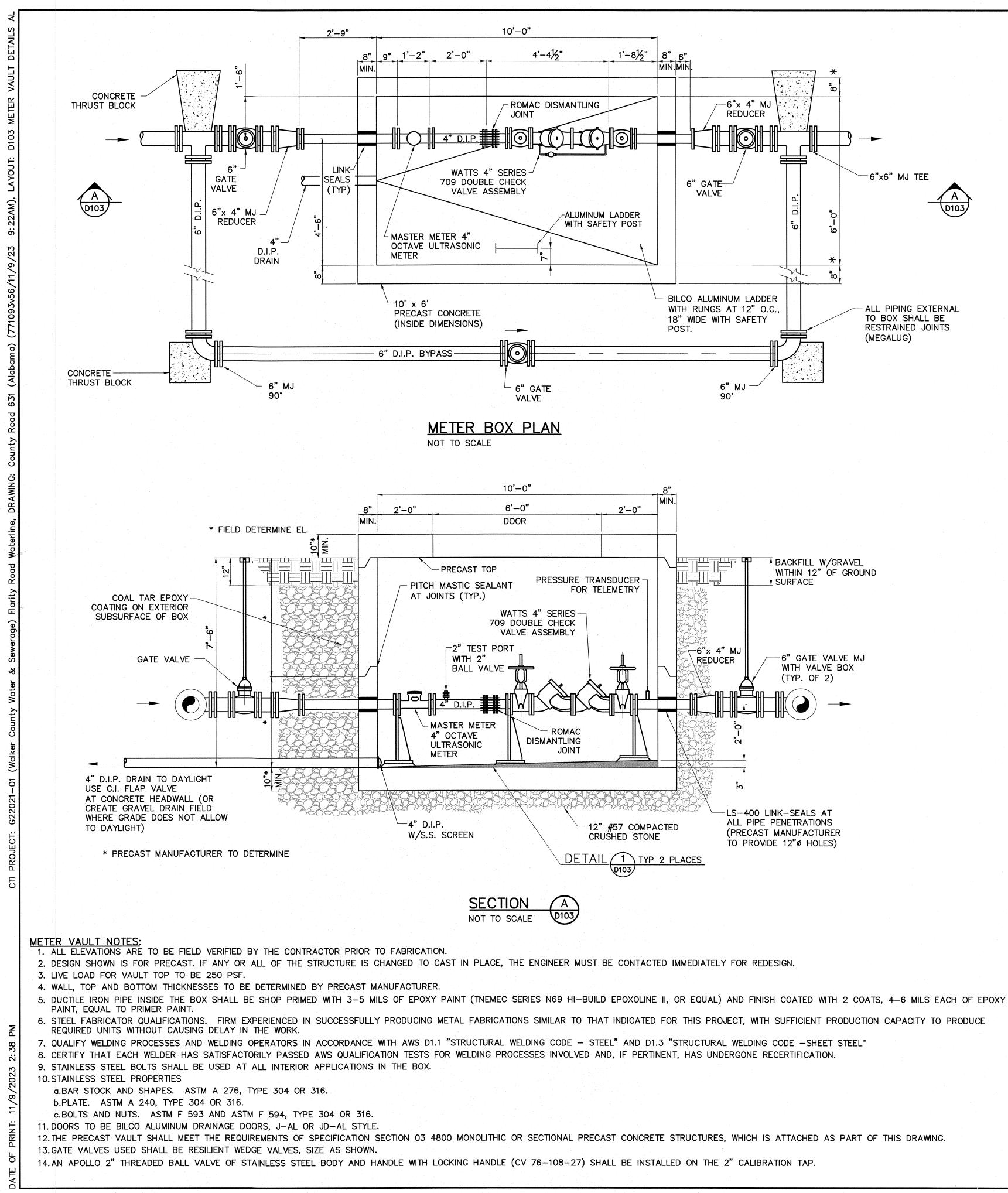


PIPE BEDDED IN 4" MIN. LOOSE SOIL**. BACKFILL LIGHTLY CONSOLIDATED TO TOP OF PIPE.

** "LOOSE SOIL" IS DEFINED AS "NATIVE SOIL EXCAVATED FROM THE TRENCH, FREE OF ROCKS, FOREIGN MATERIAL, AND FROZEN EARTH".



D102.00



2. DUCTILE IRON PIPE

EXTERIOR COATING.

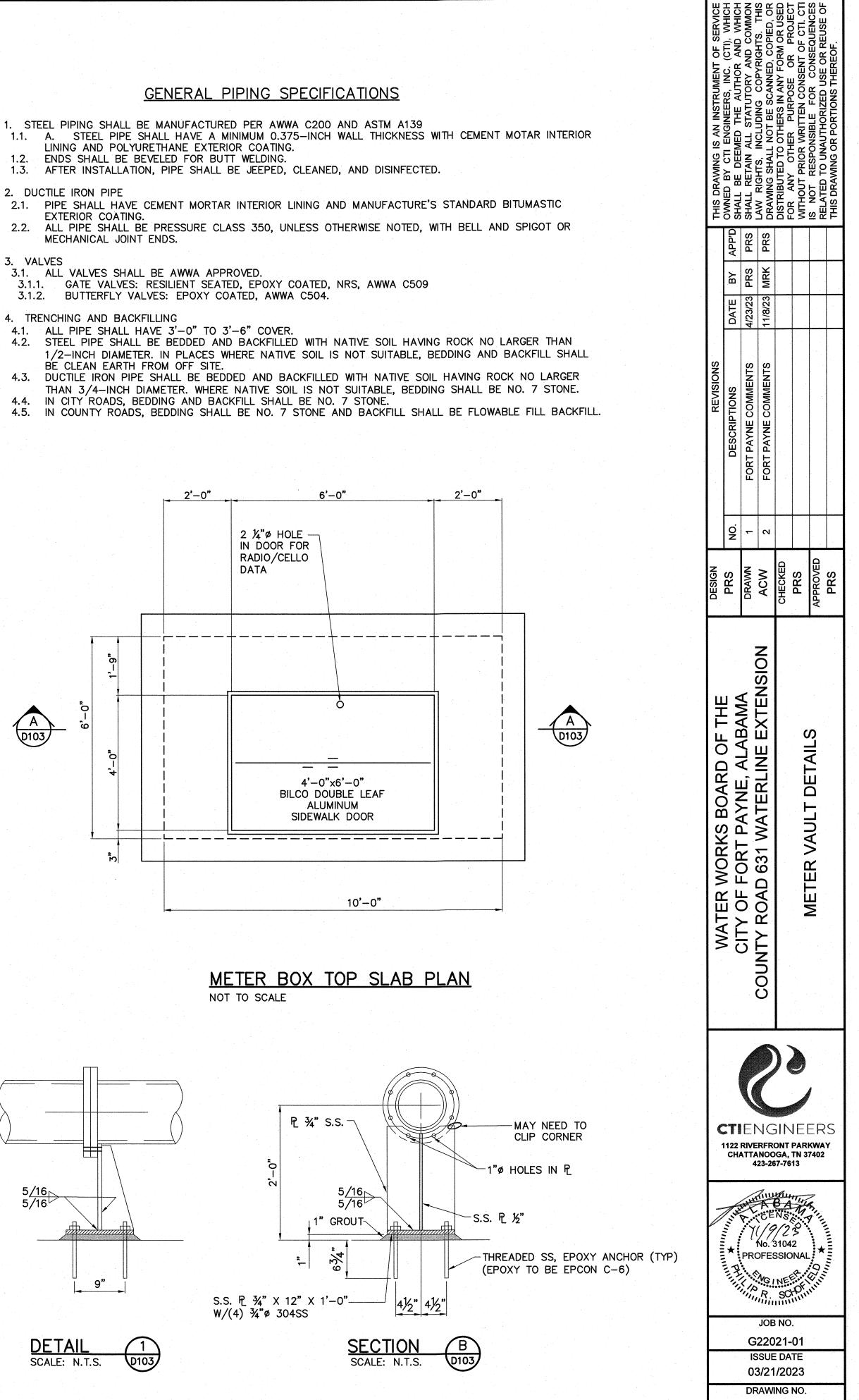
MECHANICAL JOINT ENDS.

3. VALVES

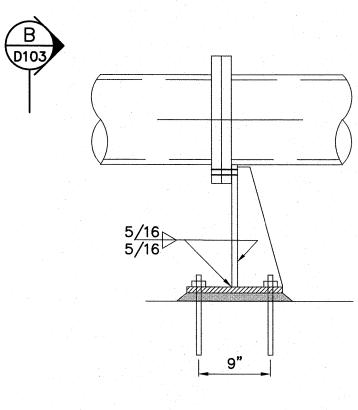
3.1. ALL VALVES SHALL BE AWWA APPROVED.

4. TRENCHING AND BACKFILLING

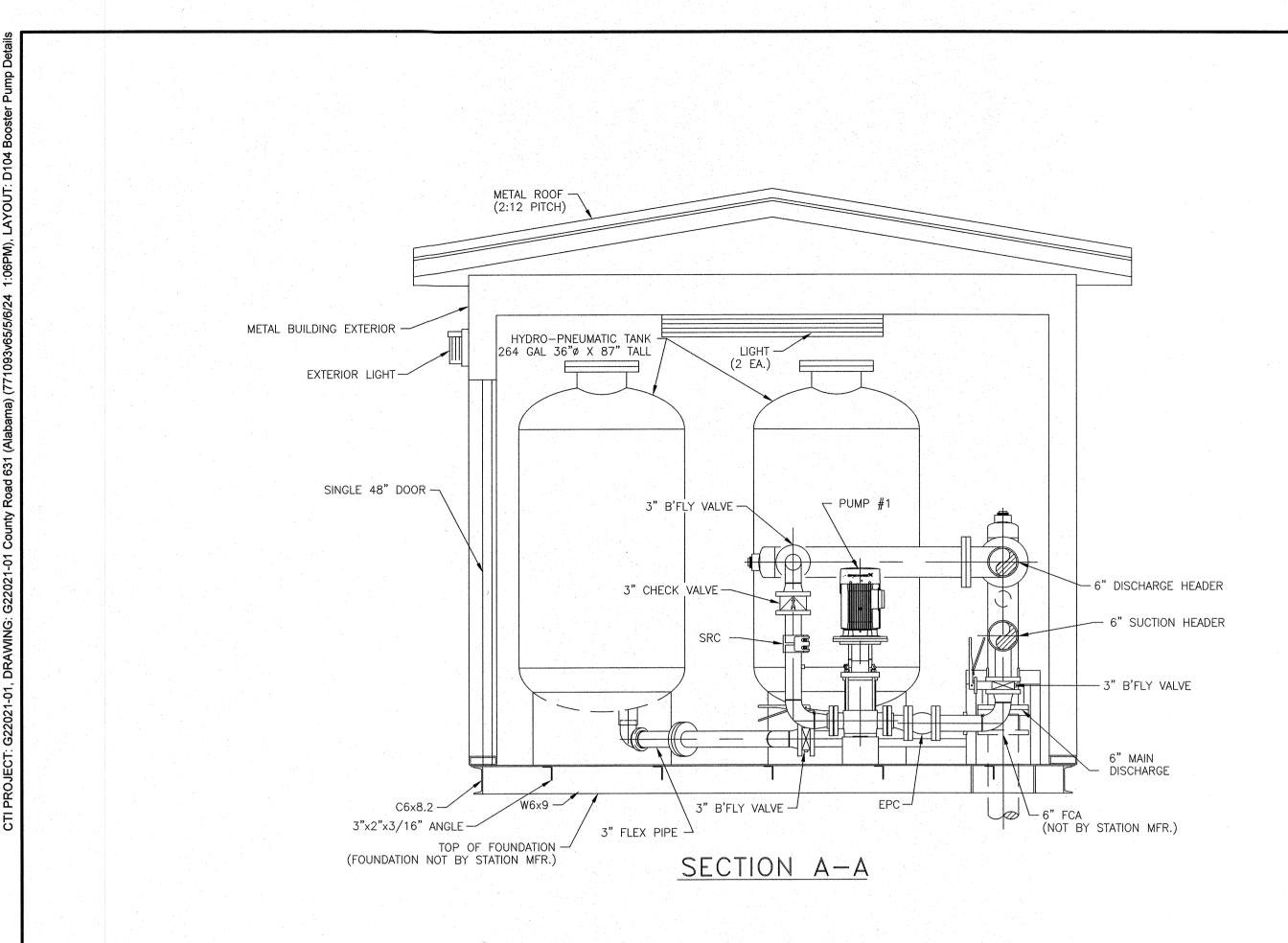
- BE CLEAN EARTH FROM OFF SITE.

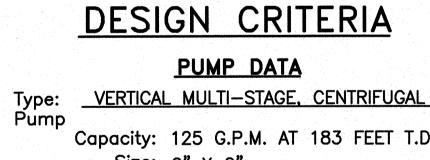


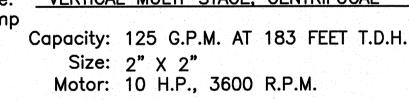
D103.02

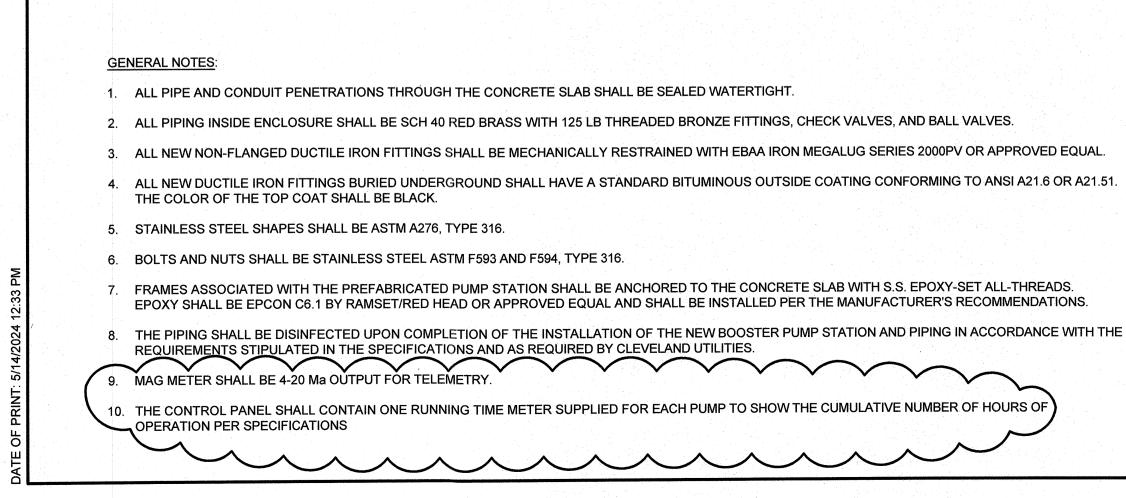


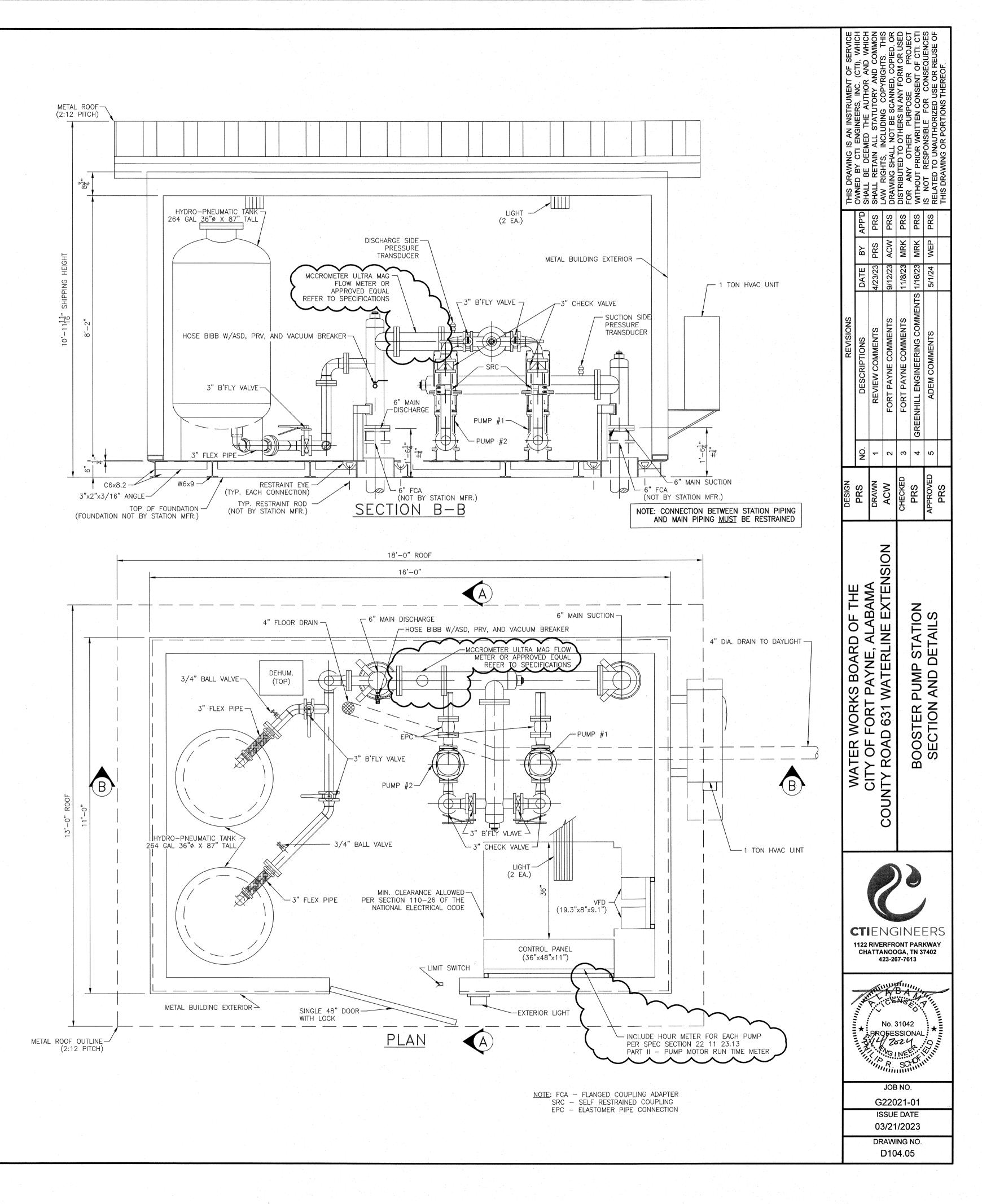
DETAIL SCALE: N.T.S.

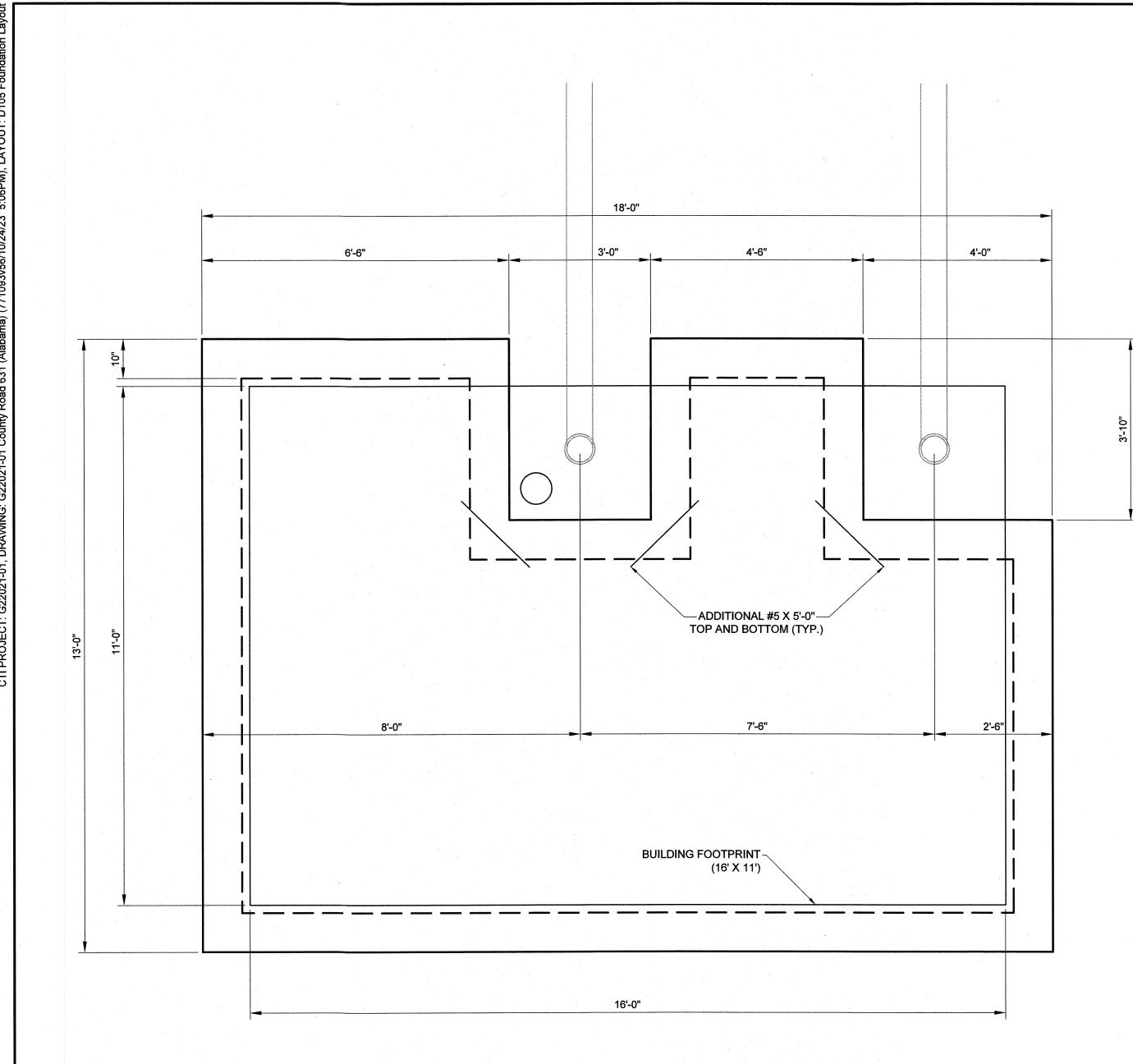








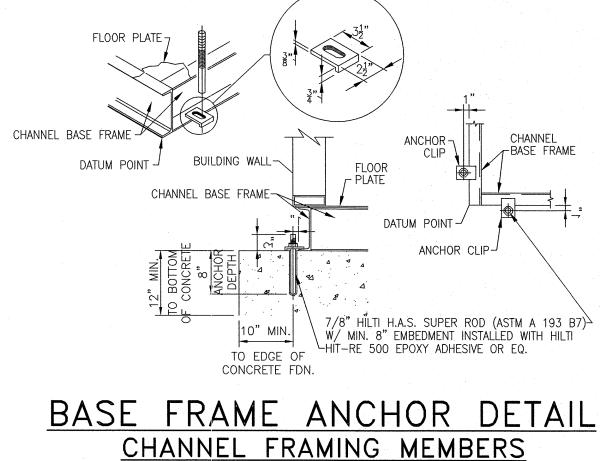




FOUNDATION LAYOUT

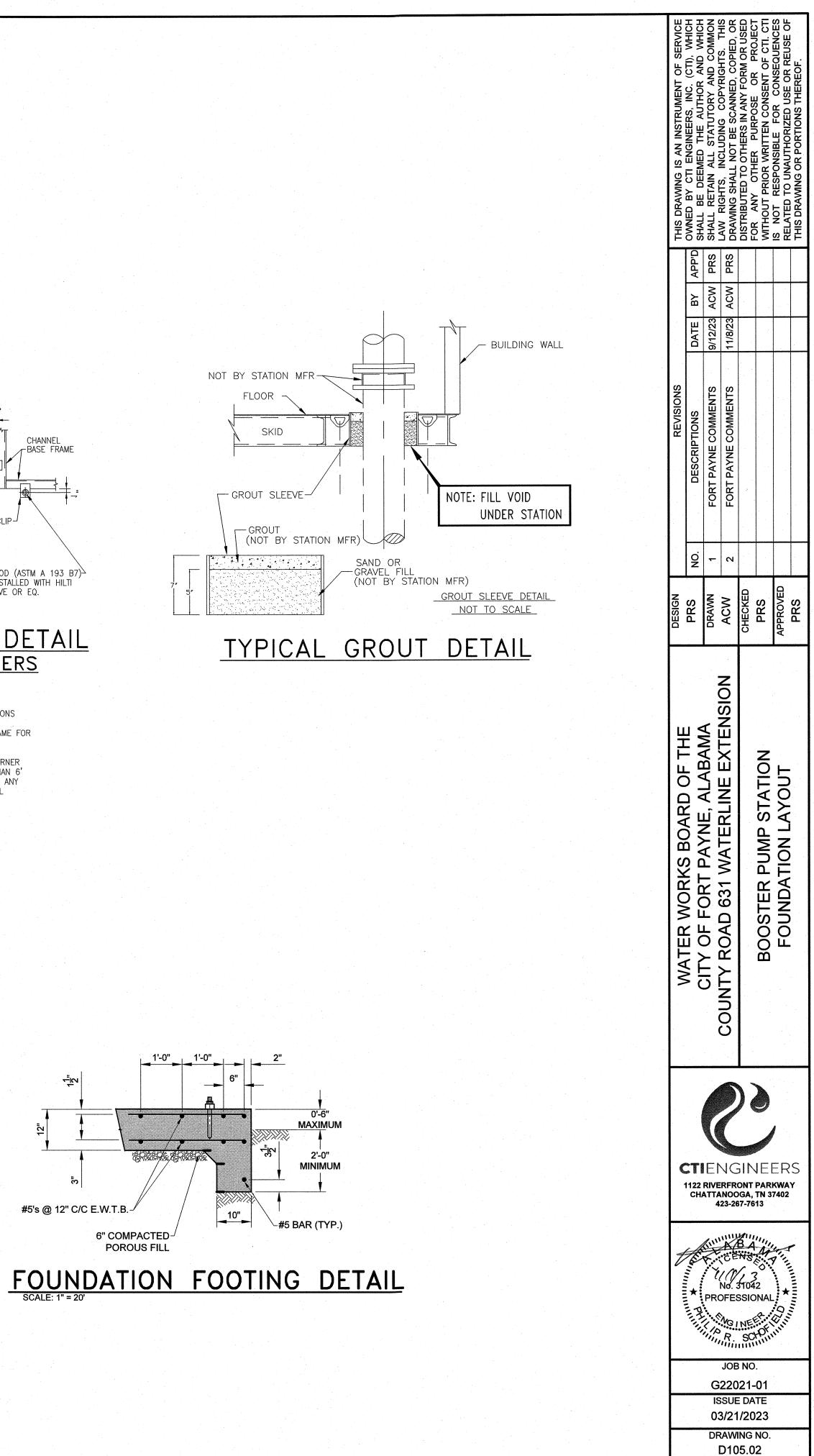
GENERAL NOTES:

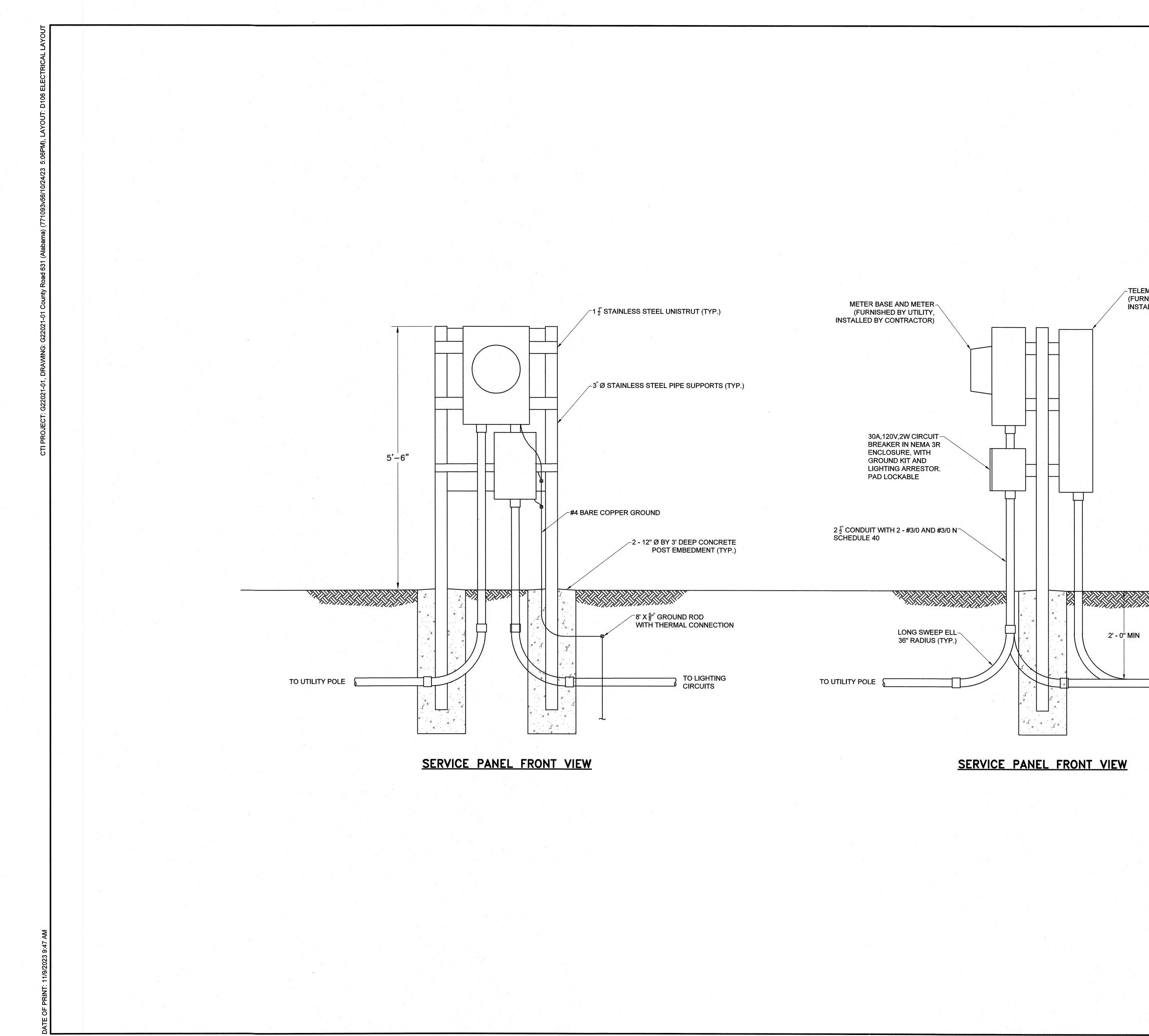
- 1. CONTRACTOR TO VERIFY ALL DIMENSIONS WITH BOOSTER STATION MANUFACTURER PRIOR TO SLAB CONSTRUCTION.
- 2. ALL PIPE AND CONDUIT PENETRATIONS THROUGH THE CONCRETE SLAB SHALL BE SEALED WATERTIGHT.
- 3. FRAMES ASSOCIATED WITH THE PREFABRICATED BOOSTER STATION SHALL BE ANCHORED TO THE CONCRETE SLAB WITH 1/2" S.S. EPOXY-SET ALL-THREADS. EPOXY SHALL BE HILTI HIT-RE 500 OR APPROVED EQUAL AND SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS.
- 4. ANCHOR SYSTEM SHOWN IN DETAIL 1 USING EPOXY BOLTS AND ANCHOR CLIPS IS THE SUGGESTED SYSTEM FOR BUILDING WITH A CHANNEL BASE FRAME. CONTRACTOR MAY SUBMIT FOR APPROVAL AN ALTERNATE ANCHORING DESIGN IF REQUIRED BY THE BUILDING CHOSEN FOR THE PROJECT
- 5. ALL NEW NON-FLANGED DUCTILE IRON FITTINGS SHALL BE MECHANICALLY RESTRAINED WITH EBAA IRON MEGALUG SERIES 2000PV OR APPROVED EQUAL.
- 6. ALL NEW DUCTILE IRON FITTINGS BURIED UNDERGROUND SHALL HAVE A STANDARD BITUMINOUS OUTSIDE COATING CONFORMING TO ANSI A21.6 OR A21.51. THE COLOR OF THE TOP COAT SHALL BE BLACK.
- 7. STAINLESS STEEL SHAPES SHALL BE ASTM A276, TYPE 316.
- 8. BOLTS AND NUTS SHALL BE STAINLESS STEEL ASTM F593 AND F594, TYPE 316.
- 9. THE PIPING SHALL BE DISINFECTED UPON COMPLETION OF THE INSTALLATION OF THE PROPOSED BOOSTER PUMP STATION AND PIPING IN ACCORDANCE WITH THE REQUIREMENTS STIPULATED IN THE SPECIFICATIONS AND AS REQUIRED BY THE CITY OF FORT PAYNE WATER WORKS.
- 10. SLAB CUTOUTS ARE FOR PIPING, ELECTRICAL CONDUITS AND TELEMETRY CONNECTIONS. VERIFY SIZES AND LOCATIONS WITH BOOSTER STATION MANUFACTURER AND OTHER TRADES. ANY CHANGES IN SIZES OF CUTOUTS MUST BE APPROVED BY THE ENGINEER.



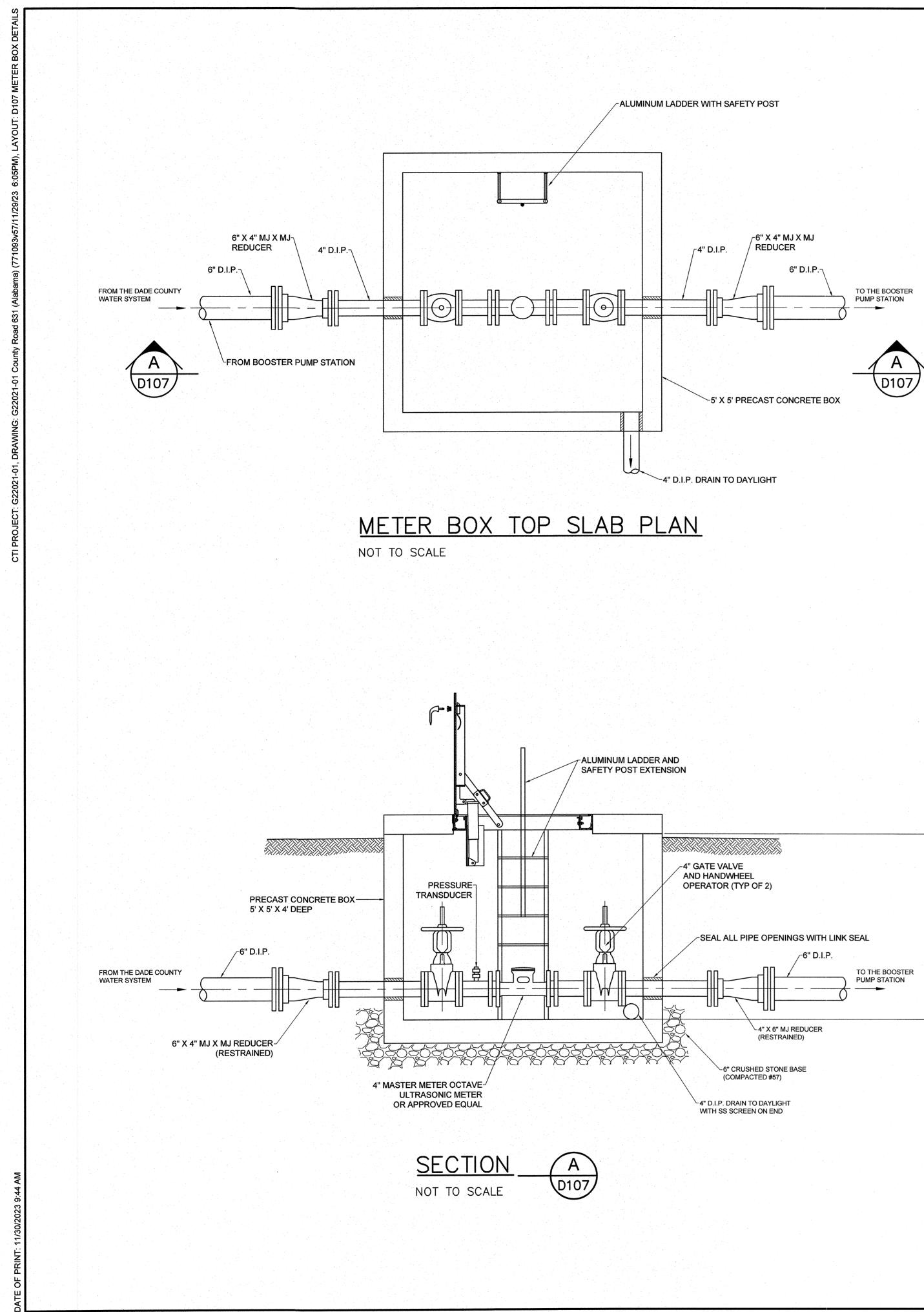
NOTE: 1. ANCHOR CLIPS FURNISHED BY E.F.I.

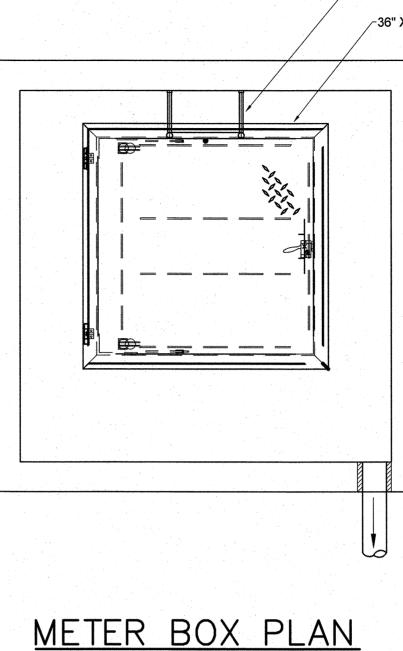
- ANCHOR BOLTS AND NUTS BY INSTALLER. FINAL FOUNDATION AND ANCHOR BOLT DESIGN AND DIMENSIONS
- AS DIRECTED BY ENGINEER (MINIMUMS ARE SHOWN). 4. SHIMS MAY BE REQUIRED AROUND PERIMETER OF BASE FRAME FOR
- LEVELNESS AND PROPER DOOR ALIGNMENT IN FRAME.
- . QUANTITY OF ANCHOR BOLTS SPECIFIED BY ENGINEER. ANCHOR BOLTS SHALL BE PLACED WITHIN 12" OF EACH CORNER WITH THE REMAINING ANCHORS BEING SPACED NO MORE THAN 6' APART ALONG ALL SIDES OF THE BUILDING PERIMETER WITH ANY WALL OF 7 FEET OR LESS HAVING TWO ANCHOR BOLTS, ALL ACCORDING TO IBC 2308.3.1, 2015 ED.





		1.1.	APP'D SHALL BE DEEMED THE AUTHOR AND WHICH SHALL BE DEEMED THE AUTHOR AND WHICH SHALL RETAIN ALL STATUTORY AND COMMON	DRAWING SHALL NOT BE SCANNED, COPIED, OR	DISTRIBUTED TO OTHERS IN ANY FORM OR USED	WITHOUT PRIOR WRITTEN CONSENT OF CTI. CTI IS NOT RESPONSIBLE FOR CONSEQUENCES	THIS DRAWING OR PORTIONS THEREOF.
EMETRY PANEL RNISHED BY UTILITY, TALLED BY CONTRACTOR)		REVISIONS	NO. DESCRIPTIONS DATE BY AI				
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TO LIGHTING CIRCUITS		WATER WORKS BOARD OF THE	ITY OF FORT PAY	COUNTY ROAD 631 WATERLINE EXTENSION			
		11		ERFRO	ONT P GA, T	ARKW N 3740	AY
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NOT TO SCALE

GENERAL PIPING SPECIFICATIONS

- 1. STEEL PIPING SHALL BE MANUFACTURED PER AWWA C200 AND ASTM A139 1.1. A. STEEL PIPE SHALL HAVE A MINIMUM 0.375-INCH WALL THICKNESS WITH CEMENT MOTAR INTERIOR LINING AND POLYURETHANE EXTERIOR COATING.
- 1.2. ENDS SHALL BE BEVELED FOR BUTT WELDING. 1.3. AFTER INSTALLATION, PIPE SHALL BE JEEPED, CLEANED, AND DISINFECTED.
- 2. DUCTILE IRON PIPE
- 2.1. PIPE SHALL HAVE CEMENT MORTAR INTERIOR LINING AND MANUFACTURE'S STANDARD BITUMASTIC EXTERIOR COATING. 2.2. ALL PIPE SHALL BE PRESSURE CLASS 350, UNLESS OTHERWISE NOTED, WITH BELL AND SPIGOT OR MECHANICAL JOINT ENDS.
- VALVES
- 3.1. ALL VALVES SHALL BE AWWA APPROVED.
- 3.1.1. GATE VALVES: RESILIENT SEATED, EPOXY COATED, NRS, AWWA C509 3.1.2. BUTTERFLY VALVES: EPOXY COATED, AWWA C504.
- 4. TRENCHING AND BACKFILLING 4.1. ALL PIPE SHALL HAVE 3'-0" TO 3'-6" COVER.
- 4.2. STEEL PIPE SHALL BE BEDDED AND BACKFILLED WITH NATIVE SOIL HAVING ROCK NO LARGER THAN 1/2-INCH DIAMETER. IN PLACES WHERE NATIVE SOIL IS NOT SUITABLE, BEDDING
- AND BACKFILL SHALL BE CLEAN EARTH FROM OFF SITE. 4.3. DUCTILE IRON PIPE SHALL BE BEDDED AND BACKFILLED WITH NATIVE SOIL HAVING ROCK NO LARGER THAN 3/4-INCH DIAMETER. WHERE NATIVE SOIL IS NOT SUITABLE, BEDDING
- SHALL BE NO. 7 STONE. 4.4. IN CITY ROADS, BEDDING AND BACKFILL SHALL BE NO. 7 STONE.
- 4.5. IN COUNTY ROADS, BEDDING SHALL BE NO. 7 STONE AND BACKFILL SHALL BE FLOWABLE FILL BACKFILL.

METER VAULT NOTES:

- 1. ALL ELEVATIONS ARE TO BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO FABRICATION.
- 2. DESIGN SHOWN IS FOR PRECAST. IF ANY OR ALL OF THE STRUCTURE IS CHANGED TO CAST IN PLACE, THE ENGINEER MUST BE CONTACTED IMMEDIATELY FOR REDESIGN. 3. LIVE LOAD FOR VAULT TOP TO BE 250 PSF.
- 4. WALL, TOP AND BOTTOM THICKNESSES TO BE DETERMINED BY PRECAST MANUFACTURER.
- 4-6 MILS EACH OF EPOXY PAINT, EQUAL TO PRIMER PAINT.
- PRODUCTION CAPACITY TO PRODUCE REQUIRED UNITS WITHOUT CAUSING DELAY IN THE WORK.
- 7. QUALIFY WELDING PROCESSES AND WELDING OPERATORS IN ACCORDANCE WITH AWS D1.1 "STRUCTURAL WELDING CODE STEEL" AND D1.3 "STRUCTURAL WELDING CODE SHEET STEEL"
- 8. CERTIFY THAT EACH WELDER HAS SATISFACTORILY PASSED AWS QUALIFICATION TESTS FOR WELDING PROCESSES INVOLVED AND, IF PERTINENT, HAS UNDERGONE RECERTIFICATION.
- 9. STAINLESS STEEL BOLTS SHALL BE USED AT ALL INTERIOR APPLICATIONS IN THE BOX.
- 10. STAINLESS STEEL PROPERTIES a. BAR STOCK AND SHAPES. ASTM A 276, TYPE 304 OR 316.
- b. PLATE. ASTM A 240, TYPE 304 OR 316.
- c. BOLTS AND NUTS. ASTM F 593 AND ASTM F 594, TYPE 304 OR 316.
- 11. DOORS TO BE BILCO ALUMINUM DRAINAGE DOORS, J-AL OR JD-AL STYLE.
- 12. THE PRECAST VAULT SHALL MEET THE REQUIREMENTS OF SPECIFICATION SECTION 03 4800 MONOLITHIC OR SECTIONAL PRECAST CONCRETE STRUCTURES, WHICH IS ATTACHED AS PART OF THIS DRAWING.
- 13. GATE VALVES USED SHALL BE RESILIENT WEDGE VALVES, SIZE AS SHOWN.

-ALUMINUM LAI

DDER	WITH	SAFETY	POST

~36" X 36" BILCO ALUMINUM ACCESS DOOR

∽5' X 5' PRECAST CONCRETE BOX

5. DUCTILE IRON PIPE INSIDE THE BOX SHALL BE SHOP PRIMED WITH 3-5 MILS OF EPOXY PAINT (TNEMEC SERIES N69 HI-BUILD EPOXOLINE II, OR EQUAL) AND FINISH COATED WITH 2 COATS, 6. STEEL FABRICATOR QUALIFICATIONS. FIRM EXPERIENCED IN SUCCESSFULLY PRODUCING METAL FABRICATIONS SIMILAR TO THAT INDICATED FOR THIS PROJECT, WITH SUFFICIENT

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HIII A ČË	RFR	COUNTY ROAD 631 WATERLINE EXTENSION	ACW				T LAW KIGHIS, INCLUDING COPYRIGHIS. THIS DRAWING SHALL NOT BE SCANNED, COPIED, OR
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NYN N	PARI TN 3	BOOSTER PUMP STATION	PRS				WITHOUT PRIOR WRITTEN CONSENT OF CTI. CTI
Pillin	ER KWA 7402	METER BOX DETAILS	APPROVED				IS NOT RESPONSIBLE FOR CONSEQUENCES RELATED TO UNAUTHORIZED USE OR REUSE OF
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ALABAMA **UNIFORM CODING SYSTEM**

FOR SOIL EROSION AND SEDIMENT CONTROL PRACTICES ALABAMA SOIL AND WATER CONSERVATION COMMITTEE

Legend of Measures for Erosion and Sediment **Control and Stormwater Management**

Site Preparation	(LS) L
(CEP) Construction Exit Pad	(OP) C
(LG) Land Grading	(RS) R
(TSG) Topsoiling	(SD) S
	(TDS)T
Surface Stabilization	· · · · · · · · · · · · · · · · · · ·
(CHS) Chemical Stabilization	Sedim
(DSF) Dune Sand Fence	(BFB) E
(DVP) Dune Vegetation Planting	(FS) F
(DW) Dune Walkover	(FB) F
(DC) Dust Control	(FL) F
(ECB) Erosion Control Blanket	(IP) li
(GK) Groundskeeping	(RD) F
(MU) Mulching	(SB) S
(PS) Permanent Seeding	(SBN)S
(PV) Preservation of Vegetation	(ST) Se
(RW) Retaining Wall	
(SVG) Shrub, Vine and Groundcover Planting	Storm
(SOD) Sodding	(BA) E
(TS) Temporary Seeding	(PP) F
(TP) Tree Planting on Disturbed Areas	(SDB)
Runoff Conveyance	Stream
(CD) Check Dam	(BZ) E
(DV) Diversion	(CS) (

(DS) Drop Structure

(GS) Grass Swale

Lined Swale **Outlet Protection Riprap-lined Swale** Subsurface Drain)Temporary Slope Drain

ment Control

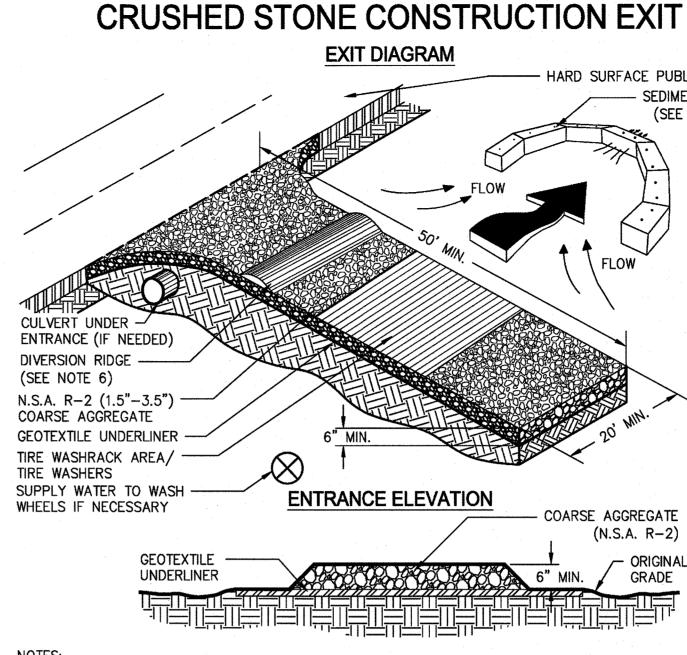
-) Brush/Fabric Barrier
- Filter Strip
- Floating Turbidity Barrier
- Flocculant
- Inlet Protection
- **Rock Filter Dam**
- **Sediment Barrier**
-)Sediment Basin
- Sediment Trap

nwater Management

- **Bioretention Area Porous Pavement**
- Stormwater Detention Basin

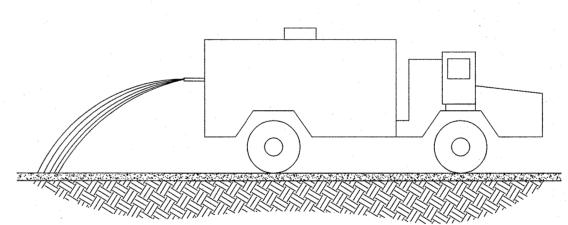
m Protection

- **Buffer Zone**
- **Channel Stabilization**
- (SDC) Stream Diversion Channel
- (SP) Streambank Protection
- (TSC) Temporary Stream Crossing



- 1. AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC ROADS. 2. REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA, GRADE, AND CROWN FOR POSITIVE DRAINAGE.
- 3. AGGREGATE SIZE SHALL BE IN ACCORDANCE WITH NATIONAL STONE ASSOCIATION R-2 (1.5"-3.5" STONE) 4. GRAVEL PAD SHALL HAVE A MINIMUM THICKNESS OF 6".
- 5. PAD WIDTH SHALL BE EQUAL FULL WIDTH AT ALL POINTS OF VEHICULAR EGRESS, BUT NO LESS THAN 20' 6. A DIVERSION RIDGE SHOULD BE CONSTRUCTED WHEN GRADE TOWARD PAVED AREA IS GREATER THAN 2%.
- 7. INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES.
- 8. WHEN WASHING IS REQUIRED, IT SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN (DIVERT ALL SURFACE RUNOFF AND
- DRAINAGE FROM THE ENTRANCE TO A SEDIMENT CONTROL DEVICE) 9. WASHRACKS AND/OR TIRE WASHERS MAY BE REQUIRED DEPENDING ON SCALE AND CIRCUMSTANCE. I NECESSARY, WASHRACK DESIGN MAY CONSIST OF ANY MATERIAL SUITABLE FOR TRUCK TRAFFIC THAT REMOVE MUD AND DIRT.
- 10. MAINTAIN AREA IN A WAY THAT PREVENTS TRACKING AND/OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.

CRUSHED STONE CONSTRUCTION EXIT



TYPES OF INSTALLATION

- 1. MULCH DISTURBED AREAS AND/OR TACKIFY WITH RESINS SUCH AS ASPHALT, CURASOL OR TERRATACK ACCORDING TO MANUFACTURER"S RECOMMENDATIONS.
- 2. STABILZE DISTRUBED AREAS WITH TEMPORARY PERMANENT VEGETATION.
- 3. IRRIGATE DISTURBED AREAS UNTIL SURFACE IS WET.
- 4. COVER SURFACES WITH CRUSHED STONE OR GRAVEL.
- 5. APPLY CALCIUM CHLORIDE AT A RATE TO KEEP SURFACES MOIST. 6. APPLY SPRAY-ON ADHESIVES TO MINERAL SOILS (NOT MUCK SOILS)
- AS DESCRIBED IN TABLE 1.

SPRAY-ON A	TABLE		EQUIREMENT
ADHESIVE	WATER DILUTION	NOZZLE TYPE	APPLICAT (Gal. / A
ANIONIC ASPHALT EMULSION	7:1	COARSE SPRAY	1,200
LATEX EMULSION	12.5:1	FINE SPRAY	235
RESIN-IN- WATER EMULSION	4:1	FINE SPRAY	300

MAINTENANCE

1. PROHIBIT TRAFFIC ON SURFACE AFTER SPRAYING. 2. SUPPLEMENT SURFACE COVERING AS NEEDED.

DUST CONTROL ON DISTURBED AREAS

IARD SURFACE PUBLIC ROAD SEDIMENT TRAP (SEE NOTE 8)



ITS ATION Acre)



Know what's below. Call before you dig.

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	DESIGN	PRS NO. DESCI	DRAWN	ACW	CHECKED	PRS	APPROVED	PRS
	WATER WORKS BOARD OF THE CITY OF FORT PAYNE, ALABAMA COUNTY ROAD 631 WATERLINE EXTENSION ESPC DETAILS SHEET 1 OF 3							
	CTIENGINEERS 1122 RIVERFRONT PARKWAY CHATTANOOGA, TN 37402 423-267-7613							
	No. 31042 PBOFESSIONAL MG/NEE							
-			1S 03	JOB 220 SUE 3/21 AWI	21- DA /20	01 TE 23 NO.		

ES101

PERMANENT METHODS: PERMANENT VEGETATION:	DEEED TO DOT (DISTI					PLANTS,
TOPSOILING: COVERING TH STONE: SURFACE WITH CI	HE SURFACE WITH A LI	ESS EROSIVE SC	IL MATERIAL.			TYPES OF SPECIES
TEMPORARY METHODS: MULCHES: REFER TO Ds1 AREA STABILIZATION WITH			GETATIVE COVER	R – REFER TO D	Ds2 (DISTURBED	TIFES OF SPECIES
TILLAGE: ROUGHEN AND I INCHES APART. IRRIGATION: SITE SPRINKL BARRIERS: FENCES, HAY	BRING CLODS TO THE	SURFACE BY US WET. REPEAT	AS NEEDED.	•		Bahia, Pensacola Alone Or With Temporary (With Perennials
PERPENDICULAR TO AIR (CALCIUM CHLORIDE: APPL TACKIFIERS & BINDERS: F	CURRENTS. Y TO KEEP SURFACE					Bahia, Wilmington Alone Or With Temporary (With Perennials
DIST	URBED AR	EA STA	BILIZA	ΓΙΟΝ		Bermuda, Common (Hulled See Alone Or With Temporary (With Perennials
					: :	Bermuda, Common (Unhulled S Alone Or With Temporary (With Perennials
DLANTS					ATES	Bermuda Sprigs Temporary Cover
•	PLANTING R IPORARY CC	•				Centipede
				* .		Crown Vetch
SPECIES	RATES PER 1,000 SQ. FT.	RATES PER ACRE	PLANTIN M-L	IG DATES BY	C REGION	With Winter Annuals Or Co Winter Grasses
Barley	3.3 lbs.	3 bu.	9/1-10/31		10/1-12/31	Fescue, Tall
Osta	20 160	1 60	0 /15_11 /15	0/15_11/15	0/15_11/15	Alone

				÷	
RATES PER	RATES PER ACRE	PLANTING DATES BY REGION			
1,000 SQ. FT.		M-L	P	С	
3.3 lbs.	3 bu.	9/1-10/31	9/15-11/15	10/1-12/31	
2.9 lbs.	4 bu.	9/15-11/15	9/15-11/15	9/15-11/15	
3.3 lbs.	3 bu.	-	-	10/15-12/15	
0.9 lbs. 0.6 lbs. 0.9 lbs.	40 lbs. 0.5 bu. 40 lbs.	8/15–11/15 8/15–10/31 3/1–3/31	9/1-12/15 9/15-11/30 3/1-3/31	9/15-12/31 10/1-12/31 2/1-2/28	
0.1 lbs.	4 lbs.	4/1-5/31	4/1-5/31	3/1-5/31	
1.4 lbs.	60 lbs.	4/1-8/31	4/1-8/31	3/1-7/31	
0.9 lbs. 1.1 lbs.	40 lbs. 50 lbs.	4/15-6/15 5/15-7/15	4/15-6/30 5/1-7/31	4/15-6/30 4/15-8/15	
4.1 lbs.	3 bu.	9/15-11/30	10/1-12/15	10/15-12/31	
-	1,000 SQ. FT. 3.3 lbs. 2.9 lbs. 3.3 lbs. 0.9 lbs. 0.6 lbs. 0.9 lbs. 0.1 lbs. 1.4 lbs. 0.9 lbs. 1.1 lbs.	1,000 SQ. FT. ACRE 3.3 lbs. 3 bu. 2.9 lbs. 4 bu. 3.3 lbs. 3 bu. 3.3 lbs. 3 bu. 0.9 lbs. 40 lbs. 0.6 lbs. 0.5 bu. 0.9 lbs. 40 lbs. 0.1 lbs. 4 lbs. 1.4 lbs. 60 lbs. 0.9 lbs. 40 lbs. 1.1 lbs. 50 lbs.	1,000 SQ. FT.ACRE $M-L$ 3.3 lbs.3 bu. $9/1-10/31$ 2.9 lbs.4 bu. $9/15-11/15$ 3.3 lbs.3 bu. $-$ 0.9 lbs.40 lbs. $8/15-11/15$ 0.6 lbs.0.5 bu. $8/15-10/31$ 0.9 lbs.40 lbs. $3/1-3/31$ 0.1 lbs.4 lbs. $4/1-5/31$ 1.4 lbs.60 lbs. $4/1-8/31$ 0.9 lbs.10 lbs. 50 lbs.	1,000 SQ. FT.ACRE $M-L$ P3.3 lbs.3 bu. $9/1-10/31$ $9/15-11/15$ 2.9 lbs.4 bu. $9/15-11/15$ $9/15-11/15$ 3.3 lbs.3 bu. $ -$ 0.9 lbs.40 lbs. $8/15-11/15$ $9/1-12/15$ 0.9 lbs.40 lbs. $8/15-10/31$ $9/15-11/30$ 0.9 lbs.0.5 bu. $8/15-10/31$ $9/15-11/30$ 0.1 lbs.4 lbs. $4/1-5/31$ $4/1-5/31$ 1.4 lbs.60 lbs. $4/1-8/31$ $4/1-8/31$ 0.9 lbs.1.1 lbs.40 lbs. $5/15-7/15$ $5/1-7/31$	

Temporary Cover Crops Are Very Competitive And Will Crown Out Perennials If Planted Too Heavily. Reduce Seeing Rates By 50% When Drilled. 3. Unusual Site Conditions May Require Heavier Seeding Rates.

4. Seeding Rates May Need To Be Altered To Fit Temperature Variations And Local Conditions. M-L Represents The Mountain, Blue Ridge, And Ridges & Valleys MLRAs.

P Represents The Southern Piedmont Region MLRA.

C Represents The Southern Coastal Plan, Sand Hills, Black Lands, And Atlantic Coast Flatwoods MLRA's.

FERTILIZER REQUIREMENTS FOR TEMPORARY VEGETATION

TYPES OF SPECIES	PLANTING YEAR	FERTILIZER (N-P-K)	RATE (lbs./acre)	N TOP DRESSING RATE (lbs./acre)
Cool Season Grasses	First	6-12-12	1500	50-100
	Second	6-12-12	100	-
	Maintenance	10-10-10	400	30
Cool Season Grasses & Legumes	First	6-12-12	1500	0–50
	Second	0-10-10	1000	–
	Maintenance	0-10-10	400	–
Temporary Cover Crops Seeded Alone	First	10-10-10	500.	30
Warm Season Grasses	First	6-12-12	1500	50-100
	Second	6-12-12	800	50-100
	Maintenance	10-10-10	400	30

DISTURBED AREA STABILIZATION (TEMPORARY SEEDING)

MATERIAL	DEPTH
DRY STRAW OR HAY	2" TO 4"
WOOD WASTE (SAWDUST, BARK, CHIPS)	2" TO 3"
CUTBACK ASPHALT (SLOW CURING)	1200 GAL. / ACRE (¼ GAL. / SQ. YD.)
BLACK POLYETHYLENE FILM	COMPLETELY COVER AREA; HOLD IN PLACE WITH SOIL ON OUTER EDGE

DISTURBED AREA STABILIZATION (TEMPORARY)



TS

Warm Season Grasses & Se

TYPES OF SPECIES

Cool Season Grasses

Legumes

Ground Covers

Pine Seedlings

Shrub Lespedeza

Legumes

Temporary Ground Cover Crops Seeded Alone

Warm Season Grasses

Cool Season Grasses &

					•					
PLANTS, PL	ANTIN	G RAT	ES, & PL	ANTING D	DATES FO	R PERMANENT COVER	DEFINITION			Manual 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		RATES		IG DATES BY			A permanent vege	ation using sods on hig	hly erodible or critic	ally eroded lands.
TYPES OF SPECIES	RATES PER	PER		IG DAILS BI		REMARKS	CONDITIONS			
	ACRE	1000 FT ²	M-L	Ρ	с			appropriate for areas w , grass swales, and wate		
Bahia, Pensacola Alone Or With Temporary Cover	60 lbs.	1.4 lbs.	_	4/1 - 5/31	3/1 - 5/31	Low Growing And Sod Forming. Allow To Establish.	CONSTRUCTIO	N SPECIFICATIONS	INSTALLATION	-
With Perennials	30 lbs.	0.7 lbs.				Will Spread Into Bermuda Lawns.	Soil Preparation			
Bahia, Wilmington Alone Or With Temporary Cover With Perennials	60 lbs. 30 lbs.	1.4 lbs. 0.7 lbs.	3/15 - 5/31	3/1 - 5/31		Low Growing And Sod Forming. Allow To Establish. Will Spread Into Bermuda Lawns.	and clods larger t surfaces, or grave	to final grade. Clear su han 1". Apply sod to so al type soils. applied will help guarar	il surfaces only and :	not frozen
Bermuda, Common (Hulled Seed) Alone Or With Temporary Cover With Perennials	10 lbs. 6 lbs.	0.2 lbs. 0.1 lbs.	_	4/1 - 5/31	3/15 - 5/31	Quick Cover, Low Growing, And Sod Forming. Needs Full Sun.	treated with herb - Mix fertilizer into fall planting of wa	icides or soil sterilents, soil surface, Fertilize i rm season species, hal other half in the spring.	based on soll tests of f the fertilizer should	r Table 6-6,1, For
Bermuda, Common (Unhulled Seed)	40 11-	0.0.11		10/1 0/08	44 /4 4 /74		Table 6-6.1. Fertili	zer Requirements for So	oil Surface Applicatio	מכ
Alone Or With Temporary Cover With Perennials	10 lbs. 6 lbs.	0.2 lbs. 0.1 lbs.	-	10/1 - 2/28	11/1 - 1/31	Plant With Winter Annuals Plant With Tall Fescue	Pertilizer Type (Ibs./acre)	Fertilizer Rate (Ibs./acre)	Fertilizer Rate	Season
Bermuda Sprigs Temporary Cover		0.9 FT ³	4/15 - 6/15	4/1 -6/15	4/1 - 5/31	1 ft ³ = 650 Sprigs	10-10-10	1000	.025	Fall
	Sod Plug	J 3 X 3				1 bu. = 1.25 ft ³ or 800 Sprigs Drought Tolerant; Full Sun or Partial Shade;	- Agrîcultural lîme tons per acre.	should be applied base	d on soil tests or at a	rate of 1 to 2
Centipede	Block So	d Only	-	11/1 – 5/31	11/1 – 5/31	Effective Adjacent To Concrete And In Concentrated Flow Areas; Irrigation Needed Until Fully Established; Do Not Plant Near Pastures.	Installation	t joints and in straight li	turn timite constants	anne Gransan
Crown Vetch With Winter Annuals Or Cool Winter Grasses	15 lbs.	0.3 lbs	9/1 - 10/15	9/1 -10/10	-	Mix With 30 lbs. Tall Fescue or 15 lbs. Rye; Innoculate Seed; Only North Of Atlanta; Dense Growth; Drought Toleratnt & Fire Resistant	joints and do not - On slopes steepe biodegradable pir	stretch sod, r than 3:1, sod should b is or other approved me	e anchored with woo sthods.	iden or
Fescue, Tall Alone With Other Perennials	50 lbs. 30 lbs.	1.1 lbs 0.7 lbs.	3/1 -4/1 - Or - 8/15 - 10/15	9/1 - 10/15 - Or - 2/15 - 4/15	-	Not For Droughty Soils; Mix With Perennial Lespedezas Or Crown Vetch; Apply Topdressing In Spring Following Fall Plantings; Not For Heavy Use Or Athletic Fields; 227,000 Seeds Per Pound.	and soil. - Irrigate sod and s - Sod should not be	uld be rolled or tamped coil to a depth of 4" imm a cut or spread in extrem be used to supplement	ediately after install nely wet or dry weat	ation.
Lespedeza, Serica Scarified	60 lbs.	1.4 lbs	4/1 - 5/31	3/15 - 5/31	3/1 - 5/15	Widely Adapted And Low Maintenance; Teks 2—3 Years To Establish; Excellent On Roadbanks; Innculate Seed With EL Innoculant; Mix With Weeping Lovegrass, Common Bermuda, Hahia Or Tall Fesuce.	SOD	DISTURBEI (WITH SOD	D AREA STAL DING)	<u> 3ILIZATION</u>
Unscarified	75 lbs.	1.7 lbs	9/1 - 2/28	9/1 - 2/28	9/1 - 2/28	Mix With Tall Fescue Or Winter Annuals				
Seed-Bearing Hay	3 Tons	138 lbs.	10/1 - 2/28	10/1 - 1/31	9/15 - 1/15	Cut When Seed Is Mature, But Before It Shatters; Add Tall Fescue Or Winter Annuals.				
Lespedeza, Ambro Virgeta Or Appalow Scarified		1.4 lbs		3/15 - 5/31		Spreading Growth With Height of 18"-24"; Good In Urban Areas; Mix With Weeping Lovegrass, Common Bermuda, Bahia, Tall Fescue, Or Winter Annuals; Do Not Mix With Serica Lespedeza; Slow To Develop		SODN	/AINTEI	NANCE
Unscarified	75 lbs.	1.7 lbs	9/1 - 2/28	9/1 - 2/28	9/1 - 2/28	Solid Stands; Innoculate Seed With EL Innoculant.				
Lespedeza, Shrub (Lespedeza Bicolor or Lespedeza Thumbergil) Plants	3' x 3'	Spacing	10/1 - 3/31	11/1 – 3/15	11/15 - 2/28	Plant In Small Clumps For Wildlife Food And Cover				
Lovegrass, Weeping Alone With Other Perennials	4 lbs 2 lbs	0.1 lbs 0.05 lbs	4/1 - 5/31	3/15 - 5/31	3/1 - 5/31	Quick Cover. Drought Tolerant. Grows Well With Sericea Lespedeza On Roadbanks.				ANI ANI TRC ENE
Maidencasne Sprigs	2' x 3'	Spacing	2/1 - 3/31	2/1 - 3/31	2/1 - 3/31	For Very Wet Sites Such As Riverbanks And Shorelines. Dig Sprigs Locally. May Clog Channels.		ICORRECT	CORRECT	
Panicgrass, Atlantic Coastal	20 lbs	0.5 lbs	_	3/1 - 4/30	3/1 - 4/30	Grows Well On Coastal Sand Dunes, Borrow Areas, And Gravel Pits. Provides Winter Cover For Wildlife. Mix With Sericea Lespedeza Except On Sand Dunes.	and the second sec			D11-
Reed Canary Grass Alone With Other Perennials	50 lbs 30 lbs	1.1 lbs 0.7 lbs	6/15 - 10/15	9/1 - 10/15	-	Grows Similar To Tall Fescue			DIRECTIC) <u>ns for in</u>
Sunflower, 'Aztec' Maximillian	10 lbs	0.2 lbs	4/15 - 5/31	4/15 - 5/31	4/15 - 5/31	Mix With Weeping Lovegrass, Legumes, Or Other Low Growing Grasses.		Step	1. ROLL SOD	IMMEDIATELY TO

FERTILIZER REQUIREMENTS FOR PERMANENT VEGETATION

PLANTING	FERTILIZER	RATE	N TOP DRESSING
YEAR	(N-P-K)	(Ibs./acre)	RATE (lbs./acre)
First	6-12-12	1500	50–100
Second	6-12-12	1000	–
Maintenance	10-10-10	400	30
First	6-12-12	1500	0-50
Second	0-10-10	1000	-
Maintenance	0-10-10	400	-
First	10-10-10	1300	
Second	10-10-10	1300	
Maintenance	10-10-10	1100	
First	20–10–5	one 21-gram pellet per seedling placed in th closing hole	-
First	0—10—10	700	-
Maintenance	0—10—10	700	
First	10-10-10	500	30
First	6-12-12	1500	50-100
Second	6-12-12	800	50-100
Maintenance	10-10-10	400	30
First	6-12-12	1500	50
Second	0-10-10	1000	-
Maintenance	0-10-10	400	-

DISTURBED AREA STABILIZATION (PERMANENT SEEDING)

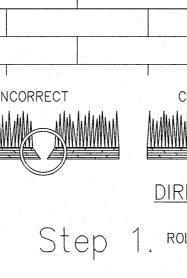


APPLY MULCH, EITHER: HAY AT 2 TONS/ACRE -OR-WHEAT STRAW AT 2.5 TONS/ACRE

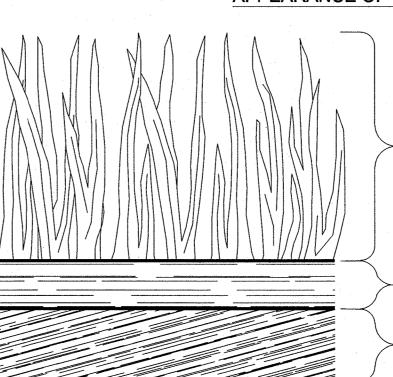
APPLY AGRICULTURAL LIME AS PRESCRIBED BY SOIL TESTS OR AT A RATE OF 1-2 TONS PER ACRE

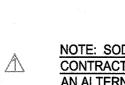


Know what's below. Call before you dig.



Step





le or critically eroded lands.

Application

Season
Fall

A STABILIZATION

Table 6-6.2. Sod Planting Requirements Resource Area Growing Season Varieties Grass M-L,P,C Bermudagrass Common P,C Tifway Warm Weather P,C Tifgreen Tiflawn P,C P,C Warm Weather Pensacola Bahiagrass P,C Warm Weather Centipede (with St. Augustine Common С Warm Weather Bitterblue Raleigh P,C Warm Weather Zoysia Emerald Myer Tall Fescue Kentucky M-L,P **Cool Weather**

MAINTENANCE

MATERIALS

is desirable.

or thatch.

be rejected.

evailable.

· Re-sod areas where an adequate stand of sod is not obtained.

- Sod should be cut and installed within 36 hours of digging.

6-6.2. See Figure 6-4.1 for your Resource Area.

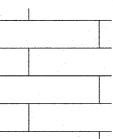
• New sod should be mowed sparingly. Grass height should not be cut less than 2"-3" or as specified, • Apply one ton of agricultural lime as indicated by soil test or every 4-6 years.

• Fertilize grasses in accordance with soil tests or Table 6-6.8. Handlinger Description and the Ord

ble 6-6.3. Fertilizer Requirements for Sod				
ypes of Species	Planting Year	Fertilizer (N-P-K)	Rate (lbs./acre)	Nitrogen Top Dressing Rate (lbs./acre)
Cool	First	6-12-12	1500	50-100
Season	Second	6-12-12	1000	-
Grasses	Maintenance	10-10-10	400	30
Warm	First	6-12-12	1500	50-400
Season	Second	6-12-12	800	50-400
Grasses	Maintenance	10-10-10	400	80

ITENANCE AND INSTALLATION SOD

SOD LAYOUT AND PREPARATION



LAY SOD IN A STAGGERED PATTERN. BUTT THE STRIPS TIGHTLY AGAINST EACH OTHER. DO NOT LEAVE SPACES AND DO NOT OVERLAP. A SHARPENED MASON'S TROWEL IS A HANDY TOOL FOR TUCKING DOWN THE ENDS AND TRIMMING PIECES.

BUTTING: ANGLED ENDS CAUSED BY THE AUTOMATIC SOD CUTTER MUST BE MATCHED CORRECTLY.

RECTIONS FOR INITIAL MAINTENANCE

ALL SOD IMMEDIATELY TO ACHIEVE FIRM CONTACT WITH THE SOIL

 $2\,$ water to a depth of 4" as needed. Water well as soon as the sod $2\,$ \cdot is laid.

Step 3. MOW WHEN THE SOD IS ESTABLISHED -- IN 2-3 WEEKS. SET THE MOWER

APPEARANCE OF GOOD SOD

SHOOTS OR GRASS BLADES: GRASS SHOULD BE GREEN AND HEALTHY, MOWED AT A 2"-3" CUTTING HEIGHT.

THATCH: GRASS CLIPPINGS AND DEAD LEAVES (UP TO 1/2" THICK).

ROOT ZONE: SOIL AND ROOTS. SHOULD BE 1/2"-3/4" THICK WITH DENSE ROOT MAT FOR STRENGTH.

NOTE: SOD BASE BID IS TIFTUF AND ALL DETAILS ABOVE APPLY TO INSTALLATION. CONTRACTOR IS DIRECTED TO PROVIDE A SEPARATE PROPOSAL FOR ZOYSIA AS AN ALTERNATE INSTALLATION

