

ADDENDUM NUMBER TWO

DUPONT PUMP STATION AND BASIN IMPROVEMENTS – PHASE 2 (Contract B) W-12-026-203

CITY OF CHATTANOOGA, TENNESSEE

The Bid Date shall be extended to Thursday, January 9, 2020 at 2:00 PM.

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

I. CONTRACT DOCUMENT

- Add attached Sheet CD-6.
- A copy of the Existing Dupont Pump Station record drawings are attached.
- Replace Sheets C-2, C-3, C-7, C-8 with the attached.
- Replace “Section 02311” with “Section 31 75 01” in Section 33 05 25 paragraph 3.01.A of the Specifications.
- Add “Note 13 Existing Pavement to Remain.” to Drawing Sheet C-1.
- Add attached Specification Section 33 23 19 Fiberglass Pipe and Fittings.
- Add “33 23 19 Fiberglass Pipe and Fittings” to Section 00 01 10 Table of Contents.
- Add note “Remove existing abandoned pump station” to Sheet C-5 at STA 30+75.
- Replace Section 00 41 00 Bid Form with the attached.
- Replace Section 00 45 77 Contractor’s Identification with the attached.
- Replace “Section 01 74 05 Cleaning” in Section 02 41 00 paragraph 3.02.B.3 with “Section 01 74 00 Cleaning and Waste Management”.
- Replace “Section 01 11 13, Summary of Work” in Section 02 41 00 paragraph 3.02.G.1 with “Section 01 11 00, Summary of Work”.
- Add the following to Section 01 11 00 Summary of Work:
 - 1.05 SALVAGE ITEMS
 - A. The following material and items of equipment shall remain the property of the Owner and stored where directed on the site. Any such material damaged due to improper handling will not be accepted and the replacement value of the material deducted from the payment to the Contractor.
 - 1. All pumps, control panels, instruments, and valves greater than 8-in diameter.
- Add “(WITH VENT)” to new 6’ MH-J (WATER TIGHT LID) on Drawing Sheet C-4 profile.
- Add “(WATER TIGHT LID)” to new 6’ MH-M on Drawing Sheet C-5 plan.
- Add “(WITH VENT)” to NEW 6’ MH-M on Drawing Sheet C-5 plan and profile.
- Add “(WATER TIGHT LID)” to new 6’ MH-N on Drawing Sheet C-5 plan.
- Add “(WATER TIGHT LID) (WITH VENT)” to new MH-O on Drawing Sheet C-5 plan and profile.

- Add “(WATER TIGHT LID)” to new 6’ MH-P on Drawing Sheet C-6 plan.
- Add “(WATER TIGHT LID)” to new 6’ MH-Q on Drawing Sheet C-6 plan, Drawing Sheet C-9 plan and profile.
- Add “(WATERTIGHT LID)” to new 9’ MH-L on Drawing Sheet C-9 plan and profile.
- Replace “New 7’ MH-Q” with “New 6’ MH-Q” on Drawing Sheet C-9.
- Add the following sentence to Note 3 on Drawing Sheet C-1 “A temporary flow meter shall be installed on the temporary force main due to the removal of the flow meter vault during construction of the proposed 48” sewer line.”.
- Drawing Sheet C-1, C-4, C-5 and C-6: Add the following notes:
 - Bypass Notes:
 1. Contractor to install a 36” DR-21 HDPE temporary force main bypass. The final piping arrangement shall be determined by Contractor. Potential bypass connection locations are as follows: STA 0+30 to STA 13+50, STA 54+10 and STA 60+00.
 2. Contractor shall field adjust and secure all above grade temporary bypass HDPE piping as necessary.
 3. Contractor shall provide all necessary fittings including tapping sleeves, valves and couplings.
 4. Contractor to submit bypass plan for approval prior to commencement of installing the bypass force main connections.
- Drawing Sheet G-1: Add the following to General Notes:
 7. All disturbed areas within the buffers need to be revegetated with native plants. Sod is not approvable within the water quality buffer. Follow guidance from the TN Permanent Stormwater Management & Design Guidance Manual.
 8. Demonstrate management of chemicals in the water quality buffer. Chemicals may be added only as required by the soil test.

II. Q&A/COMMENTS

Note: Duplicate questions were provided by several potential bidders. While wording varied slightly, duplicates have been removed.

1. Is there a planholders list for the pipe laying portion of this job (contract B)? Also, are there any provisions regarding shoring near the railroad crossing in the contract/project manual?

Response:

- a. The plan holders list is posted on our website.
<http://www.chattanooga.gov/purchasing/bidssolicitations>
- b. For railroad crossing requirements refer to the copy of the Railroad permit included in Addendum No. 1 and Section 31 75 01.

2.

- a) Can a bid item be added for Rock Excavation?
- b) Can a bid item be added for Clearing and Grubbing?

- c) Due to the potential existence of Cultural Resource Material/Archaeological Remains...Can a bid item be added for Daily and Hourly Downtime be add due to unforeseen circumstances?
- d) Can a Traffic Control Item be added?
- e) Can an Erosion Control Item be added?

Response: Requests above shall be considered incidental to the Bid Items that it pertains to with the exception of Question c. The Cultural Resource Material/Archaeological Remains were not found within the boundaries of this project.

3. There is a bid item for "Site grading including imported fill material" and a bid item for "Fill to meet 36" cover requirement". What is each item to be used for? Does the "Fill to meet minimum 36" cover requirement" not include the site grading and imported fill? What is the "site grading including fill material bid item for?

Response: Bid Form has been revised to have one line item for fill material.

4. Reference Bid Form. There are items that have a quantity of zero, and no information is provided in the plans to price these items. Shall they be left blank? If not, please provide additional design information to price these items.

Response: A revised Bid Form has been attached to this addendum.

5. Reference plans at Station 13+26. Can you provide the elevation of the existing force main? If not, can you provide design information to address this potential conflict? Reference Note 23, general notes on sheet G-2. This note says that "the contractor is responsible for verifying all information prior to bidding" To perform this work we will need a benchmark on-site and someone to coordinate the excavation with. Can you provide this information so this work can take place prior to bidding? There are other areas on-site that will need to be verified as well at the same time.

Response: The existing 30" FM is in conflict with the proposed 48" gravity sewer line at multiple locations. The contractor will be responsible for providing a by-pass force main at all conflict locations. See revisions above.

6. There are allowances set up in the bid form, but no dollar amount is provided. Can you provide the amount of the allowances?

Response: The revised bid form is attached to this Addendum.

7. Reference Note 21 of the general notes, sheet G-2 states "contractor is responsible for maintenance of wastewater flow in existing sewers during construction." After review of the site, it is apparent that the existing sewer flows are exceeding the capacity of the existing mains and is overflowing on a regular basis on the ground with no interference by construction of the proposed contract. It is impossible for us to take control and assume responsibility for an existing sewer system that is owned by the City and maintained by the City that we have no control over. Can this note be removed from the contract?

Response: The referenced note will remain. The intent is for the Contractor to provide sufficient bypass pumping to maintain existing system capacity.

8. There appears to be hazardous waste containers on the job-site. I do not see this addressed anywhere in the specification or plans. Can you provide any information regarding this?

Upon walking the site, we have discovered several barrels marked "Hazardous Waste". We are wondering if there is a plan for the removal of this hazardous waste, and if we know what type of hazardous waste this is – should we be required to have it removed – will there be a pay item for this as well?

Also, are there allowances for handling contaminated soils when found, and will there be a pay item for the removal and hauling of this contaminated soil?

Response: Any removal of existing possible hazardous materials or soils will not be the responsibility of the Contractor.

9. Section 31 75 01 requires a design system for shoring. We will need a Geotech report to bid this work. I noticed that the plans appear to have bore holes, but no information is provided. Can you provide the information for the Geotech report or bore holes?

Response: The Geotech Report is included in Addendum No. 1.

10. Can you provide drawings and information on the existing pump station and diversion structure to be demolished?

Response: Existing drawings for the pump station and diversion structure are attached to this addendum.

11. Can you provide flow data on the flows in the existing sewers that require bypassing?

Response: Flow requirements have been added to Section 01 12 16.

12. Is the start date of this contract contingent upon the finish date of the new pump station? If it is, can you provide a construction schedule for the new pump station?

Response: The start date of Contract B is not contingent on the start date of Contract A. However, demolition of the existing pump station cannot occur until the new pump station construction in Contract A has been accepted by the Owner.

13. What are the limits of abandonment of the 36" GSM and the 30" FM on the downstream end of the project? Can you provide a drawing detailing the end of the abandonment?

Response: Abandonment of the 36" GSM shall end at the existing manhole 50 feet to the southwest of propose MH E. Abandonment of the 30" FM shall end where the temporary connection is made near STA 0+60.

14. Reference Plan Sheet C-2. Approximate station 0+30. Can you confirm that the existing 30" FM is not in conflict with the proposed 48" GSM? If it is in conflict, how will the temporary relocation of the FM be paid? The same question applies at station 13+50, 54+10 and 60+00.

Response: The existing 30" FM is in conflict with the proposed 48" gravity sewer line at multiple locations. The contractor will be responsible for providing temporary bypass. See revisions included in this Addendum.

15. Can you clarify the backfill requirements for the launch and exit shafts for the RR crossing?

Response: Refer to Section 31 23 33 Trenching, Backfilling and Compaction of the Specifications for the backfill requirements of the railroad crossing launch and exit shafts.

16. Can excess material generated from pipe and backfill displacement be utilized as fill for pay item #7? If yes, will it still be paid for under item #7?

Response: Excess material that adheres to the requirements of the specifications can be utilized as fill. The Bid Form has been revised to have one line item for fill material.

17. There appears to be an old pump station at approximately station 39+60. This is in conflict with the proposed 48" GSM. Can you provide information on how to deal with this conflict? How will it be paid?

Response: The abandoned pump station can be removed. This will be paid for in Bid Item 2.

18. What is the funding source for this project? Do any wage rates apply?

Response: Wage rates do not apply to this project.

19. Reference sheet C-7. The existing 30" FM ends just north of the proposed MH Y. I do not believe this is accurate. Can you provide additional details of the 30" FM Route?

Response: 30" Force Main is parallel to the existing 36" RCP. This is shown on the revised sheets.

20. MH G on Sheet C-3 calls for a vent. Can you provide a detail for this work? How will it be paid?

Response: A detail has been added to the attached Sheet CD-6. The revised bid form is attached to Addendum No. 2.

21. Reference Sheet C-9. Line B and Line C. How is the pipe paid for the drop connections?

Response: Drop connections have been added to the Bid Form. The revised Bid Form is attached to Addendum No. 2.

22. Reference Sheet C-9. Line A, Line B and Line C. How do you plan on connecting to the existing concrete pipes? Can you provide a detail and how it is paid?

Response: Each location requires a new manhole. These manholes are included in the Bid Form.

23. It is hard to tell from the plans a footage for the lines that are to be abandoned. These lines are bid as lump sum. Can you provide a footage for the abandoned lines to be filled?

Response: See revised bid form.

24. Will the existing manhole at station 0+30.60 already be cored for the new 48" Ductile Iron pipe or will the Contract B contractor be responsible for coring it?

Response: The Contract A Contractor will be responsible for installing MH – D and a 5' DI stub-out for the connection. The Contract B contractor will be responsible for connecting to the 48" DI.

25. Line B profile shows manhole Q being a 7' diameter but Line A profile on sheet C-6 shows it being a 6' diameter manhole. Can you clarify what diameter it is?

Response: Manhole Q is 6'. See revision above.

26. Line C profile on sheet C-9 shows the 36" pipe as DIP, but on sheet C-7 manhole S shows a 36" FRP pipe going to the manhole. Is this the same line or a different line and if it is the same line is this line supposed to be DIP or FRP?

Response: The pipeline is to be ductile iron. See revision above.

27. What is the depth(s) of the existing Dupont Pump Station to be demolished and what all is involved? Can you supply as-built drawings for it?

Response: Record drawings are attached to this addendum.

28. Will there be another Section 00 45 77 Contractor's Identification form issued since the previous one has the wrong bid date on it now?

Response: A revised Contractor's Identification form is attached to Addendum No. 2.

29. According to the spec section 01 12 16 we are to leave the existing pump station in operation until the new gravity sewer is accepted by owner and engineer. How is this to be done if the removal of some existing pipes and structures are required during the installation of the proposed sewer?

Response: Additional constraints and information has been added to the documents. See revisions above.

30. The plan sheets provided don't show on the profile the elevation of the existing pipes and structures that the 48" gravity sewer will be going through and/or over/under. Can these be added to the plans to know what will have to be taken out during the proposed sewer installation?

Response: The existing force main has been added to the profiles. See revisions attached to this addendum.

31. The plans say that the shoring for the bore pits are to be left in place. This shoring will be at a location where new fill will be added. Does the shoring that is to be left in place need to go the top of the new fill elevation or only to the existing ground elevation?

Response: Existing ground elevation.

32. The addendum posted on 12/12/19 references allowing fiber glass reinforced pipe for a section. Is this only for the jacking section or is FRP an allowable alternate for other sections as well?

Response: FRP is an allowable alternative for the gravity sewer line. See revisions above.

33. The pipe data sheet in addendum lists process of manufacture as centrifugal casting process. We use a filament wound process for our pipe, is that allowable as well?

Response: No, centrifugally cast only.

The following questions were also received. Responses are still being developed and will be provided in a separate addendum.

1. The Railroad Permit says that the one time payment of \$38,000 will cover the Railroad Protective Liability Insurance for the project. Does this mean that the contractor is not responsible for obtaining Railroad Protective Liability Insurance for this bid or is the contractor responsible for obtaining the \$2,000,000/\$6,000,000 mentioned on page 4 of the Railroad Agreement?

January 3, 2020

Justin C Holland, Administrator
City of Chattanooga

**DUPONT PUMP STATION AND BASIN IMPROVEMENTS - PHASE 2
(CONTRACT B)
CONTRACT NUMBER W-12-026-203**

ARTICLE 1 – BID RECIPIENT

1.01 This Bid is submitted to:

City of Chattanooga, Tennessee
Purchasing Department
101 E. 11th Street, Suite G13
Chattanooga, Tennessee 37402

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

ARTICLE 2 – BIDDER’S ACKNOWLEDGEMENTS

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

ARTICLE 3 – BIDDER’S REPRESENTATIONS

3.01 In submitting this Bid, Bidder represents that:

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

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

- B. Bidder has visited the Site and become familiar with and is satisfied as to the general, local and Site conditions that may affect cost, progress, and performance of the Work.
- C. Bidder is familiar with and is satisfied as to all federal, state and local Laws and Regulations that may affect cost, progress and performance of the Work.
- D. Bidder has carefully studied all: (1) reports of explorations and tests of subsurface conditions at or contiguous to the Site and all drawings of physical conditions relating to existing surface or subsurface structures at the Site (except Underground Facilities)

- that have been identified in SC-4.02 as containing reliable "technical data," and (2) reports and drawings of Hazardous Environmental Conditions, if any, at the Site that have been identified in SC-4.06 as containing reliable "technical data."
- E. Bidder has considered the information known to Bidder; information commonly known to contractors doing business in the locality of the Site; information and observations obtained from visits to the Site; the Bidding Documents; and the Site-related reports and drawings identified in the Bidding Documents, with respect to the effect of such information, observations, and documents on (1) the cost, progress, and performance of the Work; (2) the means, methods, techniques, sequences, and procedures of construction to be employed by Bidder, including applying the specific means, methods, techniques, sequences, and procedures of construction expressly required by the Bidding Documents; and (3) Bidder's safety precautions and programs.
 - F. Based on the information and observations referred to in Paragraph 3.01.E above, Bidder does not consider that further examinations, investigations, explorations, tests, studies, or data are necessary for the determination of this Bid for performance of the Work at the price(s) bid and within the times required, and in accordance with the other terms and conditions of the Bidding Documents.
 - G. Bidder is aware of the general nature of work to be performed by Owner and others at the Site that relates to the Work as indicated in the Bidding Documents.
 - H. Bidder has given Engineer written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder has discovered in the Bidding Documents, and the written resolution thereof by Engineer is acceptable to Bidder.
 - I. The Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for the performance of the Work for which this Bid is submitted.
 - J. Where this Bid Form contains the provision for a bid based on a lump sum price, the Bidder shall be responsible for having prepared its own estimate of the quantities necessary for the satisfactory completion of the Work specified in these Contract Documents and for having based the lump sum price bid on its estimate of quantities.

ARTICLE 4 – BIDDER'S CERTIFICATION

4.01 Bidder certifies that:

- A. This Bid is genuine and not made in the interest of or on behalf of any undisclosed individual or entity and is not submitted in conformity with any collusive agreement or rules of any group, association, organization, or corporation;
- B. Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid;
- C. Bidder has not solicited or induced any individual or entity to refrain from bidding; and
- D. Bidder has not engaged in corrupt, fraudulent, collusive, or coercive practices in competing for the Contract. For the purposes of this Paragraph 4.01.D:

1. "corrupt practice" means the offering, giving, receiving, or soliciting of anything of value likely to influence the action of a public official in the bidding process;
2. "fraudulent practice" means an intentional misrepresentation of facts made (a) to influence the bidding process to the detriment of Owner, (b) to establish bid prices at artificial non-competitive levels, or (c) to deprive Owner of the benefits of free and open competition;
3. "collusive practice" means a scheme or arrangement between two or more Bidders, with or without the knowledge of Owner, a purpose of which is to establish bid prices at artificial, non-competitive levels; and
4. "coercive practice" means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the bidding process or affect the execution of the Contract.

ARTICLE 5 – BASIS OF BID

5.01 Bidder will complete the Work in accordance with the Contract Documents for the following price(s):

Item No.	Description	Estimated Qty.	Unit	Unit Price	Total Price
Mobilization/Demobilization					
1	Mobilization/Demobilization	1	LS	\$	\$
Demolition					
2	Demolition – Structures & Underground Piping	1	LS	\$	\$
3	Abandon & Grout Fill Existing 36" RCP Gravity Sewer including Plugging Existing 36" RCP	1700	CY	\$	\$
4	Abandon & Grout Fill Existing 30" RCP Gravity Sewer	20	CY	\$	\$
5	Abandon & Grout Fill Existing 30" DIP Forcemain	1200	CY	\$	\$
Site Grading					
6	Fill to Meet Minimum 36" Cover Requirement	4,500	CY	\$	\$
Sanitary Sewer Pipe					
7	48-Inch DI (Class 250)	6,180	LF	\$	\$
8	48-Inch FRP (SN 72)	6,180	LF	\$	\$
9	8-inch DI (Class 250)	37	LF	\$	\$
10	16-inch DI (Class 250)	60	LF	\$	\$
11	36-inch DI (Class 250)	46	LF	\$	\$
12	60" Steel Casing	110	LF	\$	\$
13	Railroad Jack and Bore	1	LS	\$	\$
14	Launch and Exit Shafts	475	CY	\$	\$
Sanitary Sewer Manholes					
15	4' Dia. MH	2	EA	\$	\$
16	5' Dia. MH	1	EA	\$	\$
17	6' Dia. MH	16	EA	\$	\$
18	8' Dia. MH	1	EA	\$	\$
19	9' Dia. MH	1	EA	\$	\$
20	Manhole Vents	4	EA	\$	\$
21	Drop Connections	2	EA	\$	\$
22	Watertight Lids	13	EA	\$	\$
Additional Construction					
23	Additional Construction Not Otherwise Covered by Line Items	1	LS	\$	\$

24	Stream Crossing	2	LS	\$	\$
25	Temporary HDPE Forcemain, Connections to Existing Forcemain, Valves, Couplings, etc. from STA 00+30 to STA 13+50, STA 54+10 and STA 60+00.	1	LS	\$	\$
26	Temporary HDPE Forcemain, Connections to Existing Forcemain, Valves, Couplings, Temporary Flow Meter, etc. at Existing Dupont Pump Station	1	LS	\$	\$
27	Soil, Concrete and Materials Testing	Allowance			\$ 25,000
28	Construction Verification Surveying	Allowance			\$ 10,000
29	All Reimbursed Railroad Costs	Allowance			\$ 50,000
Extra Items					
30	6" Concrete Encasement	65	LF	\$	\$
BID SUBTOTAL for 48-Inch DI (Class 250) Option (Summation of Bid Items 1 through 7 and 9 through 30)				\$ _____	
In Words					
BID SUBTOTAL for 48-Inch FRP (SN 72) Option (Summation of Bid Items 1 through 6 and 8 through 30)				\$ _____	
In Words					

Unit Prices have been computed in accordance with Paragraph 11.03.B of the General Conditions.

Bidder acknowledges that estimated quantities are not guaranteed, and are solely for the purpose of comparison of Bids, and final payment for all Unit Price Bid items will be based on actual quantities, determined as provided in the Contract Documents.

ARTICLE 6 – TIME OF COMPLETION

6.01 Bidder agrees that the Work will be substantially complete and will be completed and ready for final payment in accordance with Paragraph 14.07 of the General Conditions on or before the dates or within the number of calendar days indicated in the Agreement.

6.02 Bidder accepts the provisions of the Agreement as to liquidated damages.

ARTICLE 7 – ATTACHMENTS TO THIS BID

7.01 The following documents are submitted with and made a condition of this Bid:

- A. Statement of Bidders Qualifications
- B. Affidavit of No Collusion by Prime Bidder
- C. Drug-Free Workplace Affidavit
- D. Iran Divestment Act Compliance Certification
- E. Attestation Regarding Personnel Used in Contract Performance
- F. Certification By Proposed Prime or Subcontractor Regarding Equal Employment Opportunity
- G. Certification Regarding Debarment, Suspension and Other Responsibility Matters

ARTICLE 8 – DEFINED TERMS

- 8.01 The terms used in this Bid with initial capital letters have the meanings stated in the Instructions to Bidders, the General Conditions, and the Supplementary Conditions.

ARTICLE 9 – BID SUBMITTAL

9.01 This Bid submitted by:

An Individual

Name (typed or printed): _____

By: _____ (SEAL)

(Individual's signature)

Doing business as: _____

Attest: _____

(Notary)

Name (typed or printed): _____

A Partnership

Partnership Name: _____ (SEAL)

By: _____

(Signature of general partner – attach evidence of authority to sign)

Name (typed or printed): _____

Attest: _____

(Signature of another Partner)

Name (typed or printed): _____

A Corporation

Corporation Name: _____ (SEAL)

State of Incorporation: _____

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

By: _____

(Signature)

Name (typed or printed): _____

Title: _____

(CORPORATE SEAL)

Attest: _____

(Signature of Corporate Secretary)

Name (typed or printed): _____

Date of Qualification to do business in Tennessee is _____

A Joint Venture

Name of Joint Venturer: _____

First Joint Venturer Name: _____ (SEAL)

By: _____
(Signature of first joint venture partner)

Name (typed or printed): _____

Title: _____

Second Joint Venturer Name: _____ (SEAL)

By: _____
(Signature of second joint venture partner)

Name (typed or printed): _____

Title: _____

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

All Bidders shall complete the following:

Bidder's Business address: _____

Phone: _____ Facsimile: _____

Primary Contact: _____

E-mail: _____

Submitted on _____, 201__.

State Contractor License No. _____.

This document was prepared in part from material (EJCDC C-410 Suggested Bid Form for Construction Contracts) which is copyrighted as indicated below:

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(703) 684-2882
www.nspe.org

American Council of Engineering Companies
1015 15th Street N.W., Washington, DC 20005
(202) 347-7474
www.acec.org

American Society of Civil Engineers
1801 Alexander Bell Drive, Reston, VA 20191-4400
(800) 548-2723
www.asce.org

Associated General Contractors of America
2300 Wilson Boulevard, Suite 400, Arlington, VA 22201-3308
(703) 548-3118
www.agc.org

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Section 00 45 77
Contractor's Identification

(ALL BLANKS MUST BE FILLED. USE N/A AS NECESSARY)

This form shall be attached to the sealed envelope containing the Bid. All prime contractors and contractors for electrical, plumbing, and heating, ventilation, and air conditioning contracts for bids of \$25,000 or more and/or masonry items for \$100,000 or more are required to complete this form pursuant to TCA-62-6-119. Failure to provide all of this information on the sealed envelope shall be considered a non-responsive Bid and shall not be opened or shall automatically disqualify such bid.

BIDDER:

Name: _____

Address: _____

If TaxID Number (TIN) issued, list below. Otherwise, list Owner's Social Security Number (SSN).

TaxID Number: _____

Tennessee License No.: _____

License Registration Date: _____

License Expiration Date: _____

Monetary Limit: _____

_____ (\$ _____)

Classification: _____

Complete the following for all applicable Electrical, Plumbing, Masonry and Heating, Ventilation and Air Conditioning Subcontractors: Prime Contractor must fill in space below when performing Electrical, Plumbing, or Heating, Ventilation and Air Conditioning Sub-Contractor work for any bids of \$25,000 or more; and for Masonry for any bids of \$100,000 or more:

Electrical Subcontractor

_____ Tennessee License No.: _____

License Expiration Date: _____

License Classification: _____

Plumbing Subcontractor

_____ Tennessee License No.: _____

License Expiration Date: _____

License Classification: _____

Heating, Ventilation and Air Conditioning Subcontractor

_____ Tennessee License No.: _____

License Expiration Date: _____

License Classification: _____

Masonry Subcontractor

_____ Tennessee License No.: _____

License Expiration Date: _____

License Classification: _____

CITY OF CHATTANOOGA
Purchasing Department
101 E. 11th Street, Suite G13
Chattanooga, Tennessee 37402

LOCATION: City Hall, Purchasing Department
101 E. 11th Street
Suite G13
Chattanooga, Tennessee 37402

SEALED BID PROPOSAL FOR:

**DUPONT PUMP STATION AND BASIN IMPROVEMENTS
– PHASE 2 (Contract B)**

Contract Number: W-12-026-203

DATE OF BID OPENING: Thursday, January 9, 2020

TIME: 2:00 p.m.

PART 1 GENERAL

1.01 DESCRIPTION:

- A. Provide and test fiberglass pipe 48-inch in diameter, fittings and appurtenances as indicated and specified.

1.02 RELATED WORK:

- A. Division 31 - Earthwork

1.03 REFERENCES:

- A. American Society for Testing and Materials (ASTM):
 1. D1599 – Standard Test Method for Resistance to Short-Time Hydraulic Pressure of Plastic Pipe, Tubing and Fittings
 2. D2105 – Standard Test Method for Longitudinal Tensile Properties of “Fiberglass” (Glass-Fiber-Reinforced Thermosetting-Resin) Pipe and Tube
 3. D2310 – Standard Classification for Machine-Made “Fiberglass” (Glass-Fiber-Reinforced Thermosetting-Resin) Pipe
 4. D2412 – Standard Test Method for Determination of External Loading Characteristics of Plastic Pipe by Parallel-Plate Loading
 5. D2924 – Standard Test Method for External Pressure Resistance of “Fiberglass” (Glass-Fiber-Reinforced Thermosetting-Resin) Pipe
 6. D2925 – Standard Test Method for Beam Deflection of “Fiberglass” (Glass-Fiber-Reinforced Thermosetting-Resin) Pipe Under Full Bore Flow
 7. D2996 – Standard Specification for Filament-Wound “Fiberglass” (Glass-Fiber-Reinforced Thermosetting-Resin) Pipe
 8. D2997 – Standard Specification for Centrifugally-Cast “Fiberglass” (Glass-Fiber-Reinforced Thermosetting-Resin) Pipe
 9. D3262 – Standard Specification for “Fiberglass” (Glass-Fiber-Reinforced Thermosetting-Resin) Sewer Pipe
 10. D3517 – Standard Specification for “Fiberglass” (Glass-Fiber-Reinforced Thermosetting-Resin) Pressure Pipe
 11. D3567 – Standard Practice for Determining Dimensions of “Fiberglass” (Glass-Fiber-Reinforced Thermosetting-Resin) Pipe and Fittings

12. D3754 – Standard Specification for “Fiberglass” (Glass-Fiber-Reinforced Thermosetting-Resin) Sewer and Industrial Pressure Pipe
 13. D4024 – Standard Specification for Machine Made “Fiberglass” (Glass-Fiber-Reinforced Thermosetting-Resin) Flanges
 14. D4161 – Standard Specification for “Fiberglass” (Glass-Fiber-Reinforced Thermosetting-Resin) Pipe Joints Using Flexible Elastomeric Seals
 15. D5421 – Standard Specification for Contact Molded “Fiberglass” (Glass-Fiber-Reinforced Thermosetting-Resin) Flanges
 16. F2686 – Standard Specification for Glass Fiber Reinforced Thermoplastic Pipe
- B. American Water Works Association (AWWA):
1. C605 – Underground Installation of Polyvinyl Chloride (PVC) Pressure Pipe and Fittings for Water
 2. C950 – Fiberglass Pressure Pipe
 3. M45 – Fiberglass Pipe Design

1.04 SUBMITTALS:

- A. Submit the following in accordance with Section 01 33 23 – Shop Drawings, Product Data, and Samples:
1. Certified shop and erection drawings. Contractor shall submit electronic files of the piping layout including the following.
 - a. Pipe layouts in full detail.
 - b. Location and type of anchors.
 - c. Location of couplings and expansion joints.
 - d. 1/2" = 1'-0" scale details of all wall penetrations and fabricated fittings or special fittings.
 - e. Schedules of pipe, fittings, expansion joints and other appurtenances.
 - f. Electronic files shall conform to the following minimum requirements:
 - 1) Electronic Files: AutoCAD latest version, drawn to scale.
 - 2) Submit electronic files as part of the Shop Drawing submittal.
 - 3) Drawings shall be in conformance with all other requirements as specified in this specification.
 2. Signed shop tests attesting to compliance with appropriate standards.
 3. Catalog cuts of joints, couplings, harnesses, expansion joints, gaskets, fasteners and other accessories.
 4. Provide tag names and numbers for all sections of piping and fittings.

1.05 QUALIFICATIONS

- A. All fiberglass reinforced plastic pipe and fittings shall be furnished by a single manufacturer who is experienced in the manufacture of the items to be furnished. The pipe and fittings shall be designed, fabricated, and installed, in accordance with the best practices and methods and shall be suitable for the intended service.

1.06 DELIVERY, STORAGE AND HANDLING:

- A. Provide in accordance with Section 01 66 10 – Delivery, Storage and Handling.
- B. During loading, transportation and unloading prevent damage to pipes and coatings. Load and unload each pipe under control at all times. Under no circumstances will a dropped pipe be used unless inspected and accepted by the Owner or Owner's Representative. Place skids or blocks under each pipe in the shop and securely wedge pipe during transportation to protect pipe, lining, and coating.
- C. Materials, if stored, shall be kept safe from damage. The interior of all pipe, fittings and other appurtenances shall be kept free from dirt or foreign matter at all times.
- D. Pipe shall not be stacked higher than the limits recommended by its manufacturer. The bottom tier shall be kept off the ground on timbers, rails, or concrete. Stacking shall conform to manufacturer's recommendations.
- E. Pipe shall be properly supported according to the manufacturer's instructions to avoid damage due to flexural strains.

PART 2 PRODUCTS

2.01 MANUFACTURERS:

- A. Flowtite
- B. HOBAS

2.02 MATERIALS:

- A. Fiberglass Gravity and Low Head Pressure Pipe
- B.

Nominal Pipe Size, in	Minimum Wall Thickness, inches
48	1.03 (SN 72)

- C. Pipe shall be manufactured using vinyl ester resin only.

2.03 PIPE:

- A. Fabricate to sizes, dimensions, and shapes indicated.

- B. Pipe shall be rated for a minimum of 50 psi (PN50).

2.04 FITTINGS:

- A. Fabricate in accordance with AWWA M45
- B. Provide elbows with the following radius:
1. Interior and Exposed Piping: 1-1/2 times the nominal diameter
 2. Buried Piping: 2-1/2 times nominal diameter, unless otherwise indicated or specified.
 3. Provide elbows in accordance with the following:

Fitting Bend Angle, degrees	Number of Pieces
0 to 30	2
31 to 60	3
61 to 90	4

- C. Provide reinforced tees, laterals, and outlets in accordance with AWWA M45.
- D. Provide reducing sections with same shell thicknesses required for larger ends.
- E. Special Sections:
1. Provide fittings and special sections with ends as indicated and fabricated to shapes, sizes, and dimensions indicated.
- F. Provide fittings shop fabricated from previously hydrostatically tested straight pipe with non-destructive testing of all seams that were not previously tested in the straight pipe.

2.05 FIELD JOINTS:

- A. Type as indicated:
1. Location and type of joint may be modified to provide for flexibility in field assembly as accepted by the Owner or Owner's Representative.
- B. Provide pipe end preparation and tolerances in accordance with AWWA C950.

2.06 FLANGES:

- A. Provide in accordance with ASTM D5421 depending on pressures.
- B. Provide flanged end pipe fitted with slip-on flanges.

1. Provide bolts and bolt-studs in accordance with ASTM D5421 with hexagonal or square heads, coarse thread fit, threaded full length with ends chamfered or rounded.
 2. Project bolt ends 1/4-inch beyond surface of nuts.
 3. Provide hexagonal nuts with dimensions in accordance with ANSI B18.2.2 and coarse threads in accordance with ASME B1.1.
- C. Provide face and finish flanges per ASTM D5421.
- D. Provide flanges attached normal to axis of pipe for alignment.
- E. Provide flanges tested, after connection to pipe, for true plane and reface, to bring them within specified tolerances.
- F. Blind Flanges: Conforming in diameter, drilling, and thickness to flanges to which they mate and reinforced to produce a watertight joint under test pressures.
- G. Gaskets:
1. Provide gaskets made from 1/8-inch thick compressed non-asbestos material.
 2. Materials:
 - a. Wastewater: Buna N, Neoprene

2.07 SLEEVE TYPE COUPLINGS:

- A. Joints for lined piping:
1. Fiberglass pipe to be installed in the existing 8-foot semielliptical conduit shall be joined using double bell couplings with Buna-N REKA type gaskets.
- B. Manufacturers:
1. Sleeve type couplings shall be manufactured or approved by the pipe manufacturer.
- C. Provide plain end type ends to be joined by mechanical couplings in accordance with AWWA C950.
1. Outside diameter and out-of-round tolerances to be within limits specified by coupling manufacturer.

2.08 TRANSITION JOINTS:

- A. Transitions from Fiberglass pipe to ductile iron pipe shall use Dresser Style 38 couplings or approved equal.

2.09 LINING:

A. Lining:

1. Lining shall be an integral part of the pipe and shall be applied as part of the manufacturing process. No lining applied after pipe manufacturing will be allowed.
2. Lining shall be suitable for continuous immersion in raw wastewater.

PART 3 EXECUTION

3.01 INSTALLATION OF PIPE:

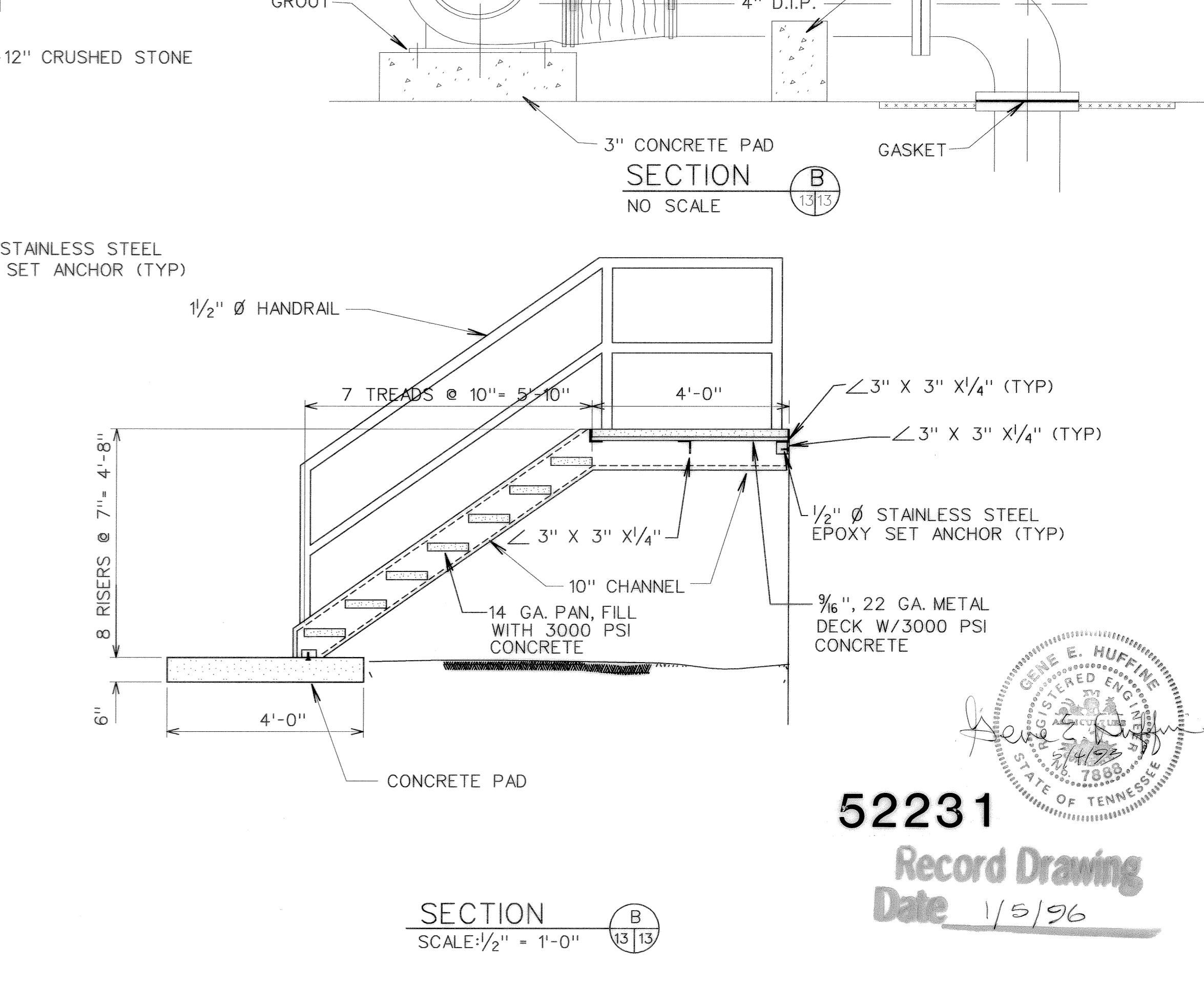
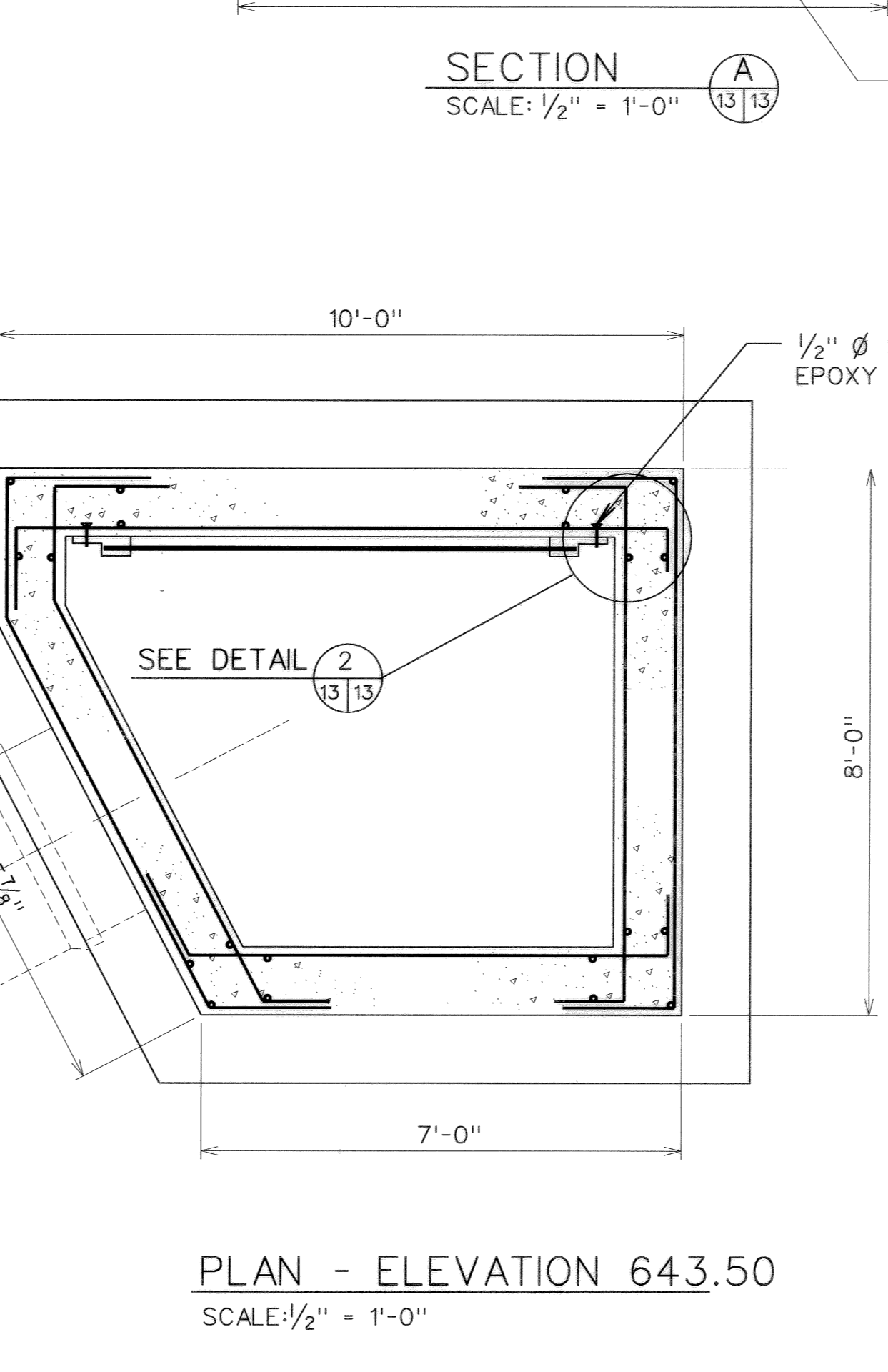
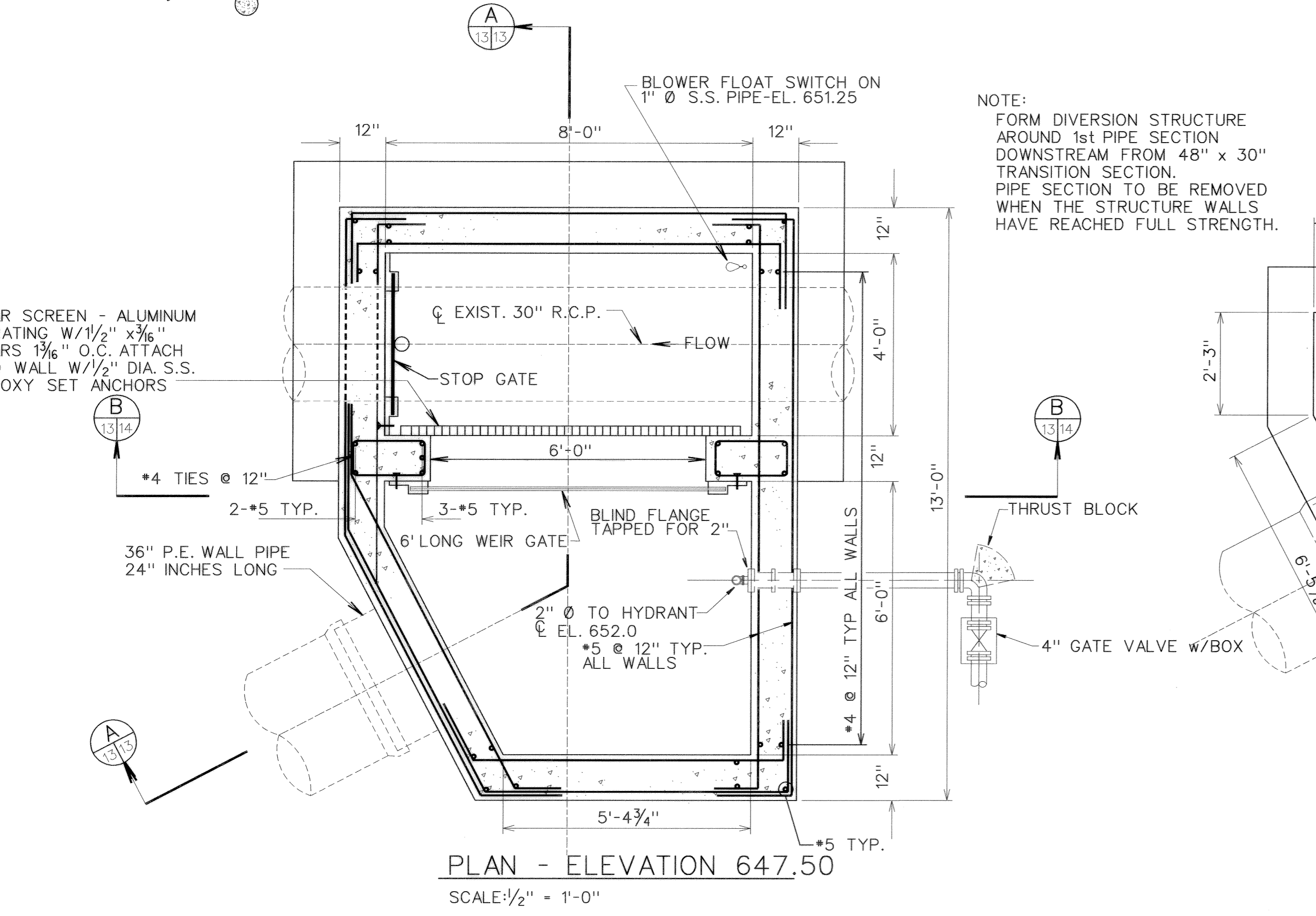
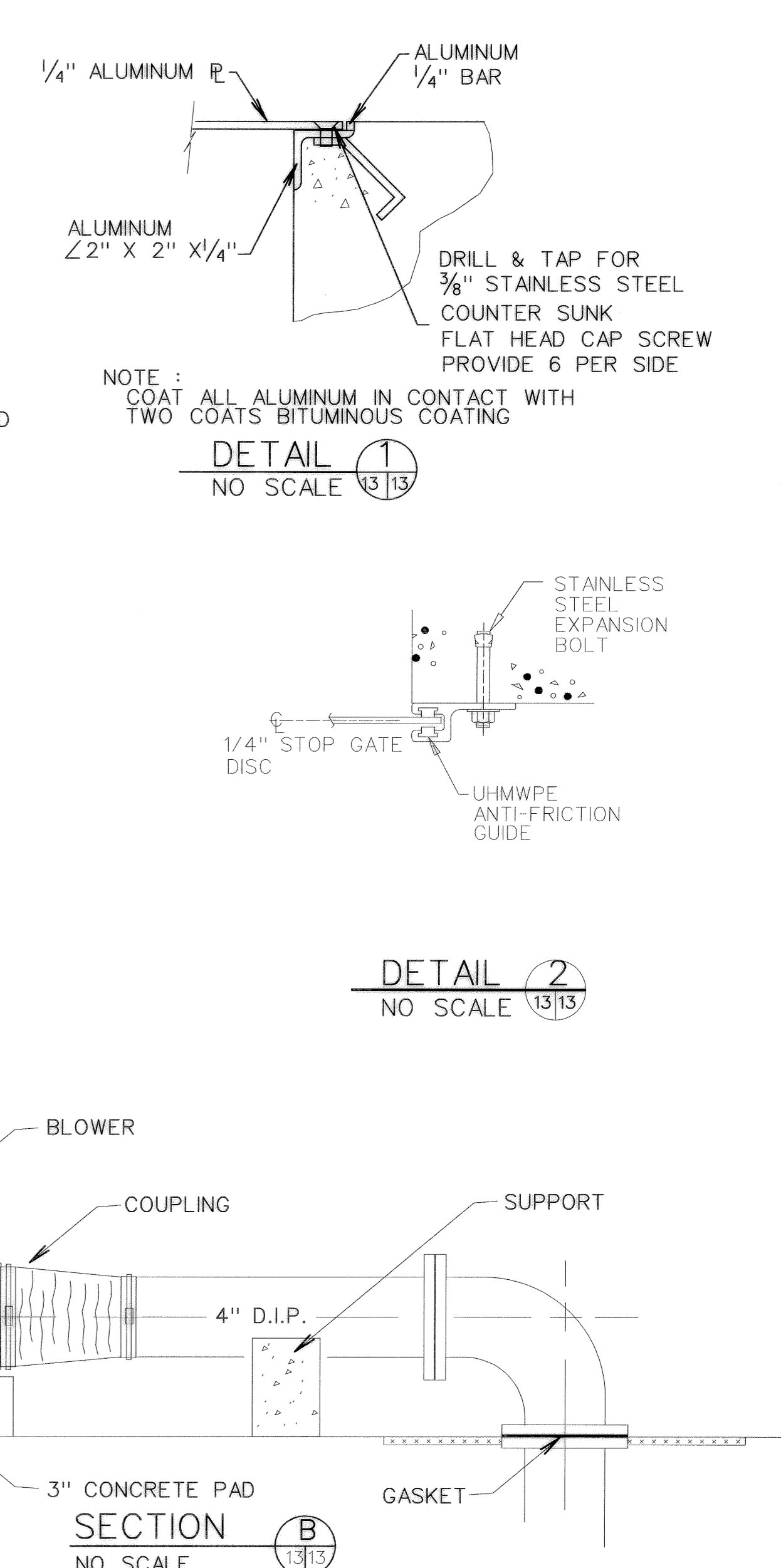
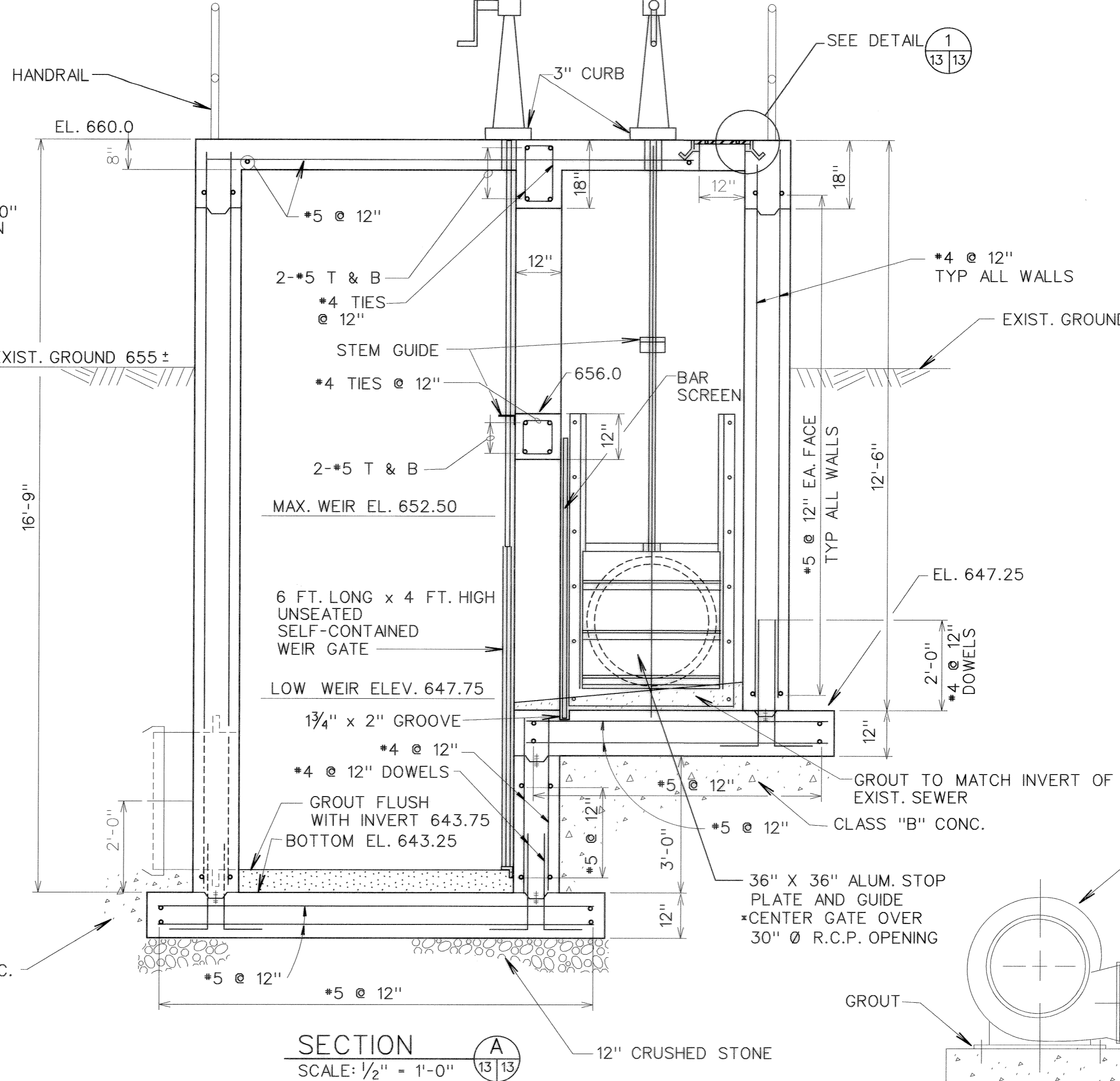
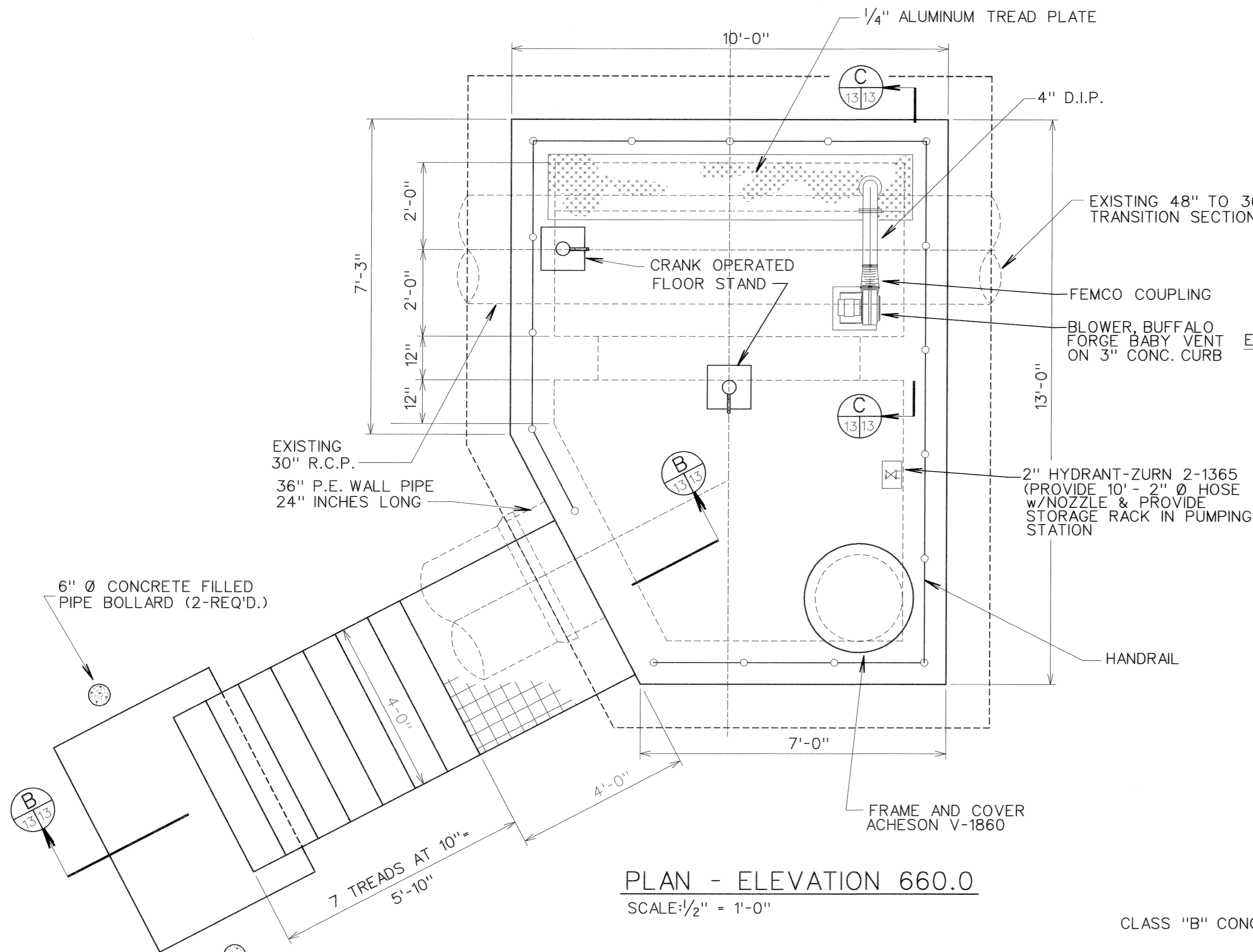
- A. Install piping to lines and grades indicated and support.
- B. Slope piping as required in the drawings.
- C. Before assembly, remove debris from inside pipes and fittings.
- D. Before flanged pieces are assembled, clean flanges and gaskets and smooth burrs. Make up flanged joints tight, and prevent strain upon valves or other pieces of equipment.
- E. Examine pieces for damage. Do not install pieces that are damaged according to the Owner or Owner's Representative. If any damaged piece should be discovered after having been installed, remove and replace with a sound piece at no additional cost to the Owner.
- F. Handle pipe with equipment such as nylon slings and padded skids, designed to prevent damage to the coating. Repair abrasions and injuries to the coating prior to the application of insulation or prior to the application of final field coating.

3.02 PHYSICAL CHECKOUT, FIELD AND FUNCTIONAL TESTING:

- A. Clean dirt, dust, oil, grease and other foreign material, before pressure and leakage tests.
- B. Water for testing provided by the Contractor.
- C. Pressure and Leakage Tests shall be done per AWWA C605:
 1. Provide temporary testing plugs or caps; pressure pumps, pipe connections, meters, gages, equipment, and labor.
 2. Test pipelines in sections of accepted length.
 3. Fill section of pipe with water and expel air.

4. Pressure and leakage test consists of first raising pressure (based on elevation of lowest point of section under test and corrected to gage location) to pressure in psi numerically equal to test pressures.
5. No visible leakage in joint is acceptable.
6. If unable to achieve and maintain specified pressure for one hour with no additional pumping, section has failed to pass test.
7. If section fails pressure and/or leakage test, locate, uncover, and repair or replace defective pipe, fitting, or joint, and conduct additional tests and repairs until section passes test at no additional cost and without any time extensions.
8. Make piping connections to equipment with pipe in a free supported state and without application of vertical or horizontal forces to align piping with the equipment flanges.

END OF SECTION



NOTE:
FORM DIVERSION STRUCTURE AROUND 1st PIPE SECTION DOWNSTREAM FROM 48" x 30" TRANSITION SECTION. PIPE SECTION TO BE REMOVED WHEN THE STRUCTURE WALLS HAVE REACHED FULL STRENGTH.



52231
Record Drawing
Date 1/5/96

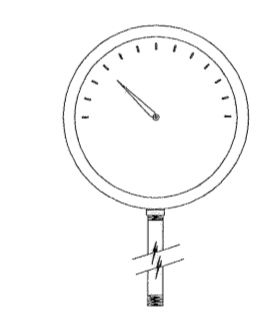
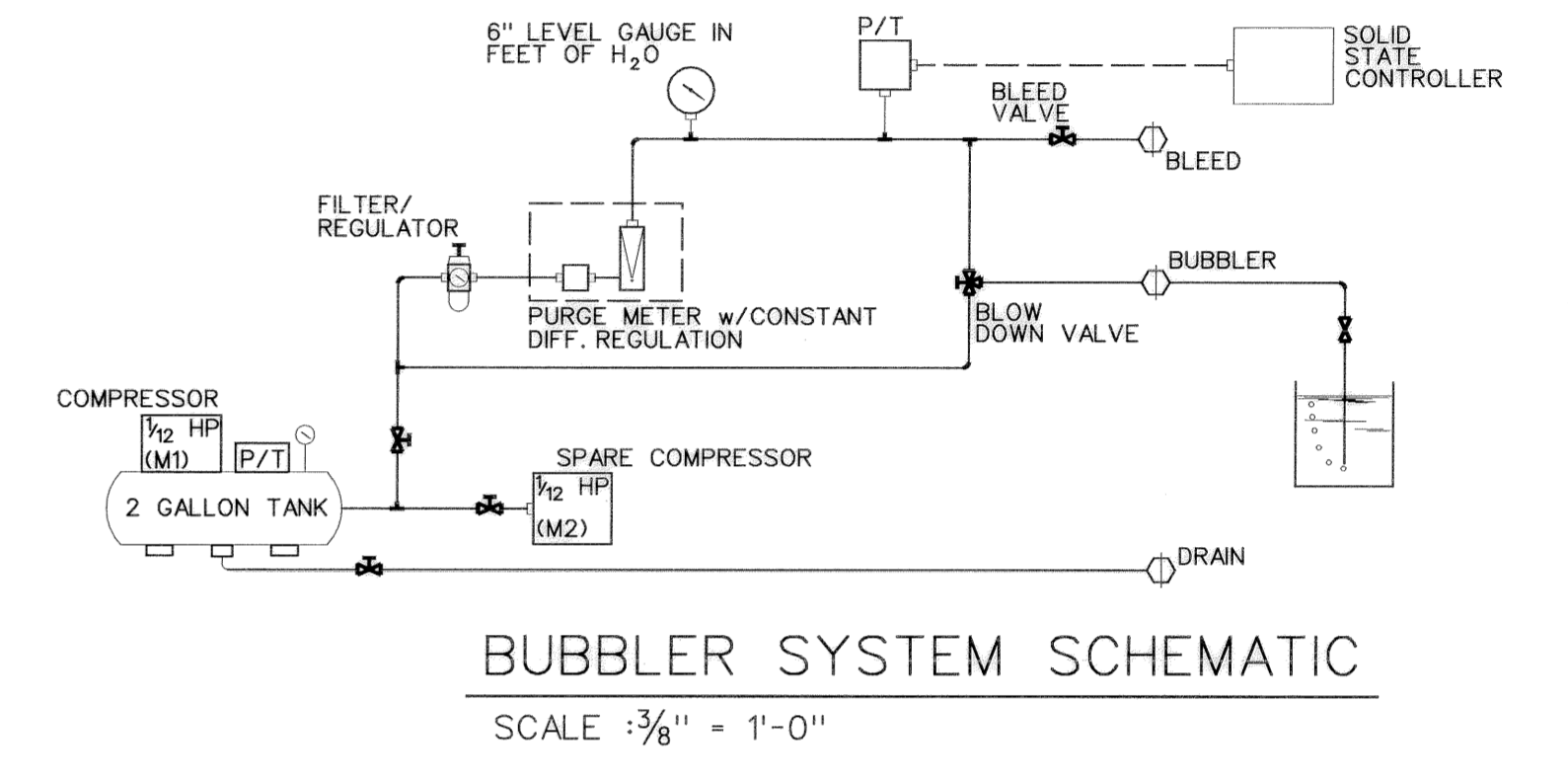
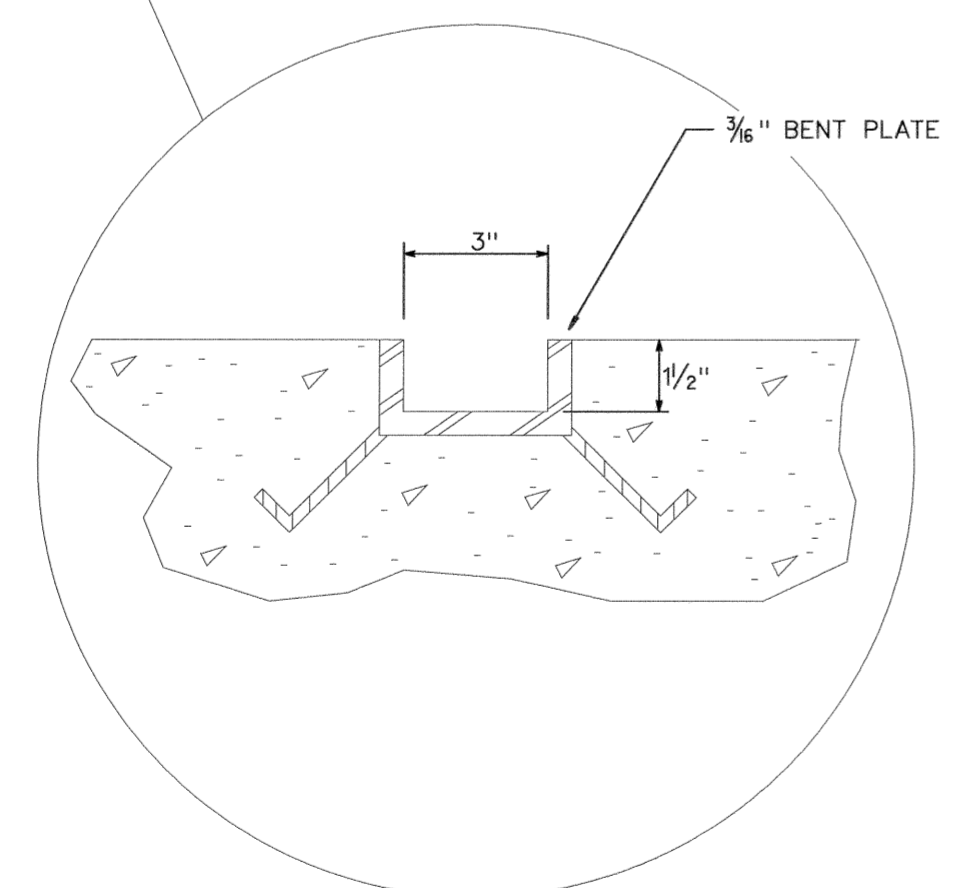
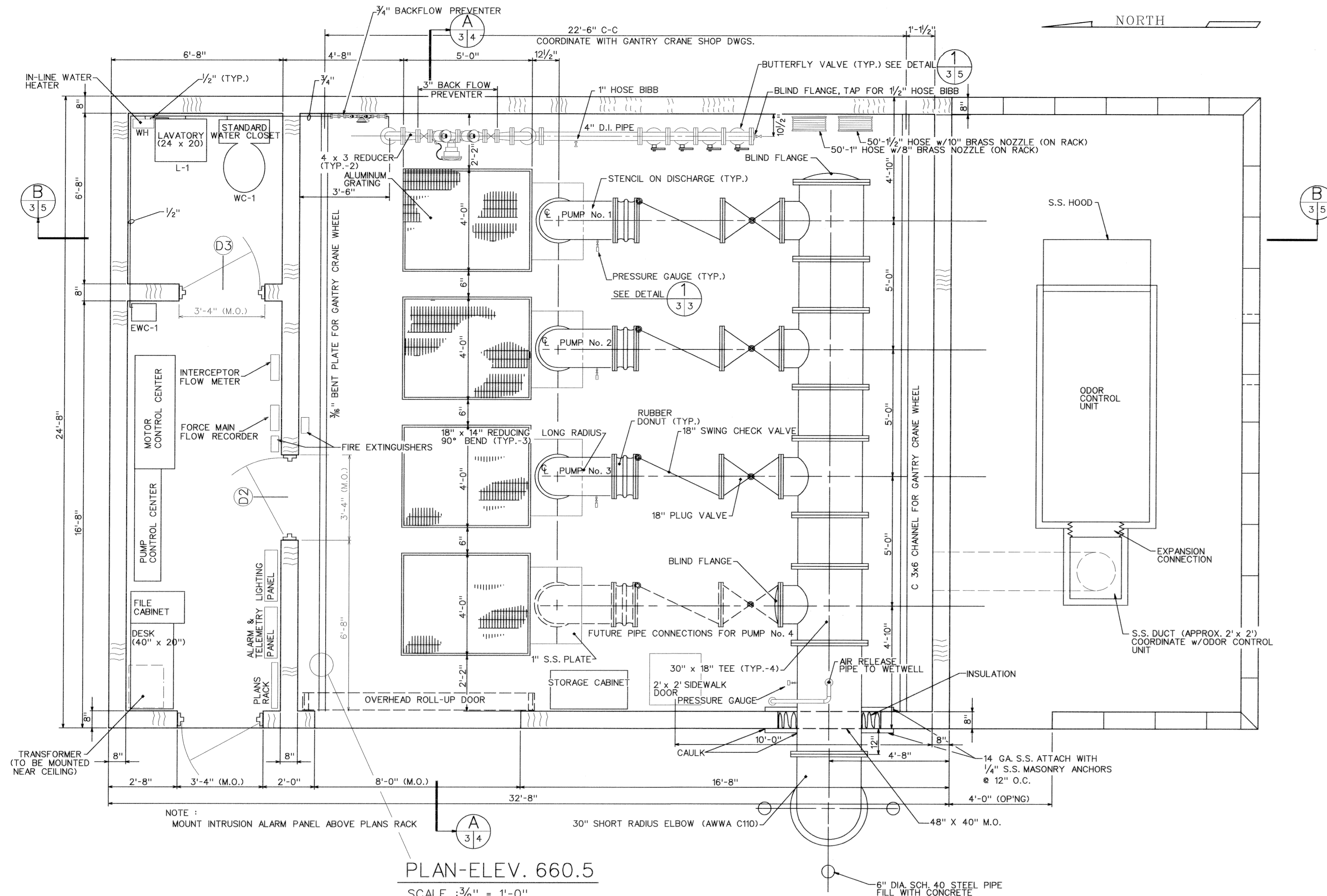
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CHK'D:	A.D.S.	3/93
APPR:	G.E.H.	3/93

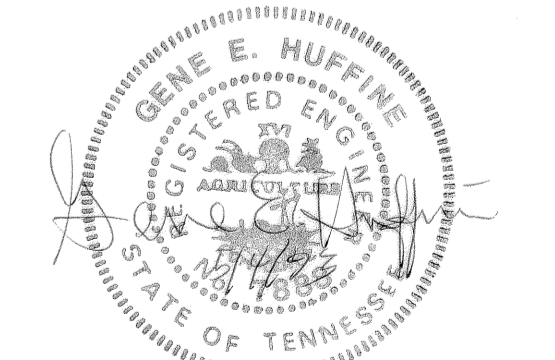
DUPONT PARKWAY PUMP STATION
CONTRACT 40F
CITY OF CHATTANOOGA, TENNESSEE

DIVERSION STRUCTURE
DRAWING NO. 92028-13.1

CV:92028-31-PLAN660.5



PRESSURE GAUGE DETAIL (TYP.)
NO SCALE



52221
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Date 1/5/96

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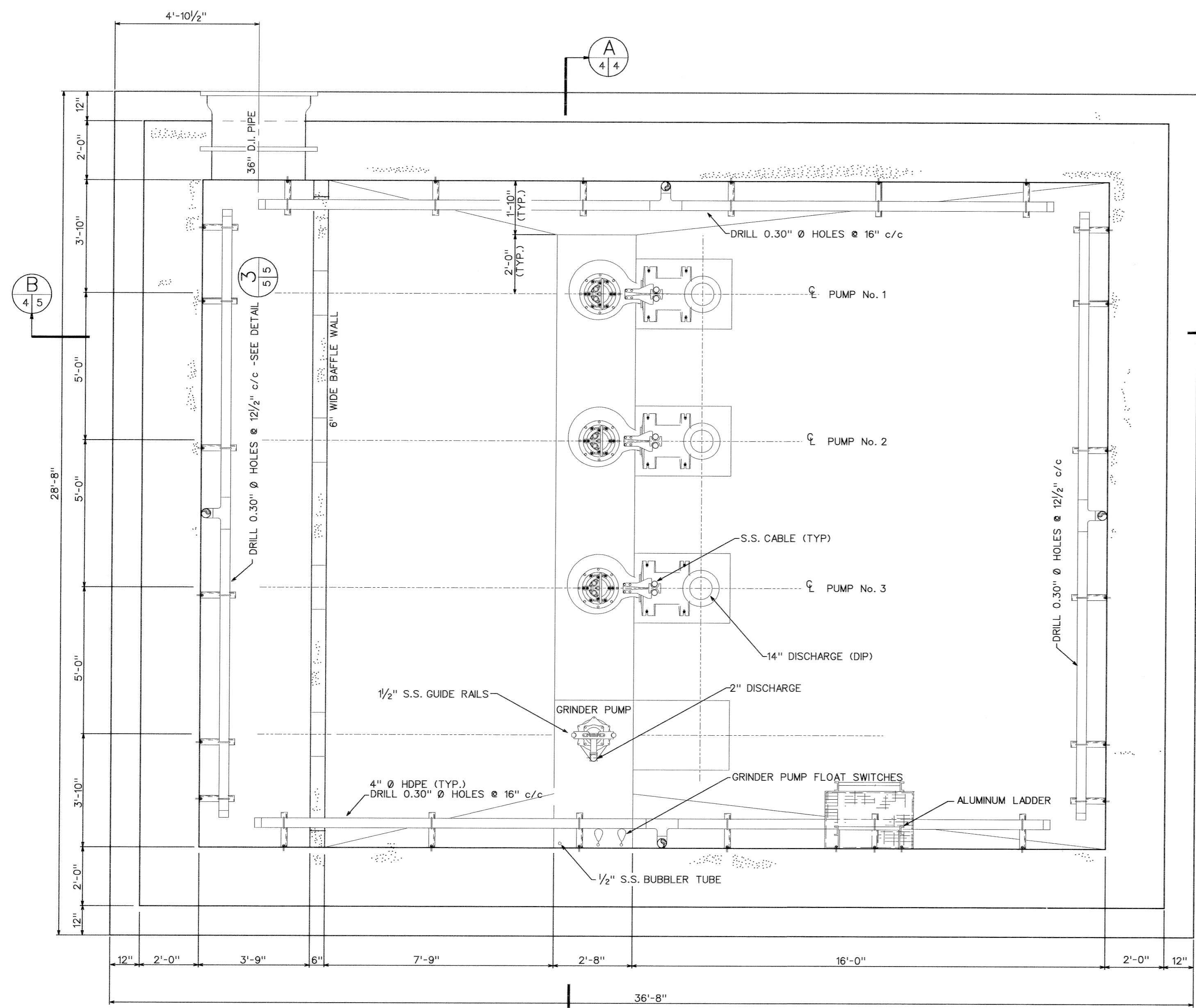
CTI CONSOLIDATED TECHNOLOGIES, INC.
ENGINEERS IN WATER AND EARTH SCIENCES
CHATTANOOGA, TENNESSEE

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DRWN:	GLENN RAMEY/CADD	3/93
CHK'D:	A.D.S.	3/93
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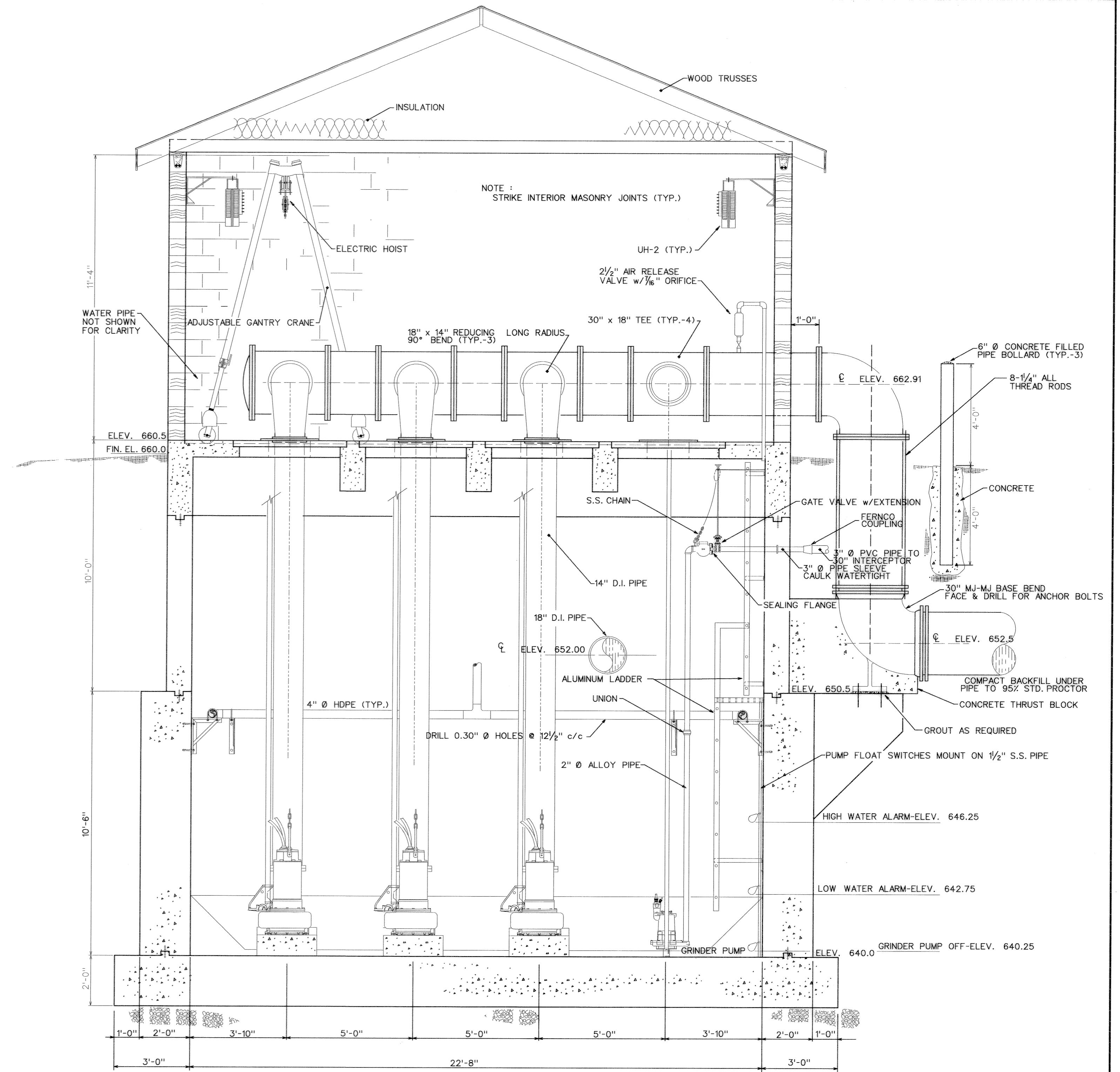
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CONTRACT 40F
CITY OF CHATTANOOGA, TENNESSEE

PLAN-ELEV. 660.5

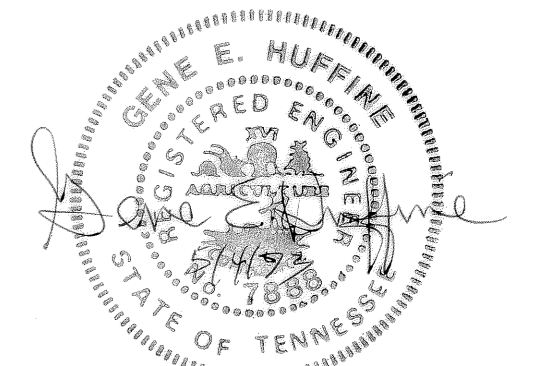
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92028-3.1



PLAN-WET WELL AREA
SCALE: 3/8" = 1'-0"



SECTION
SCALE: 3/8" = 1'-0" 3,4,4



52222
Record Drawing
Date 1/5/96

REV. NO.	RELEASED BY:	DESCRIPTION OF REVISION
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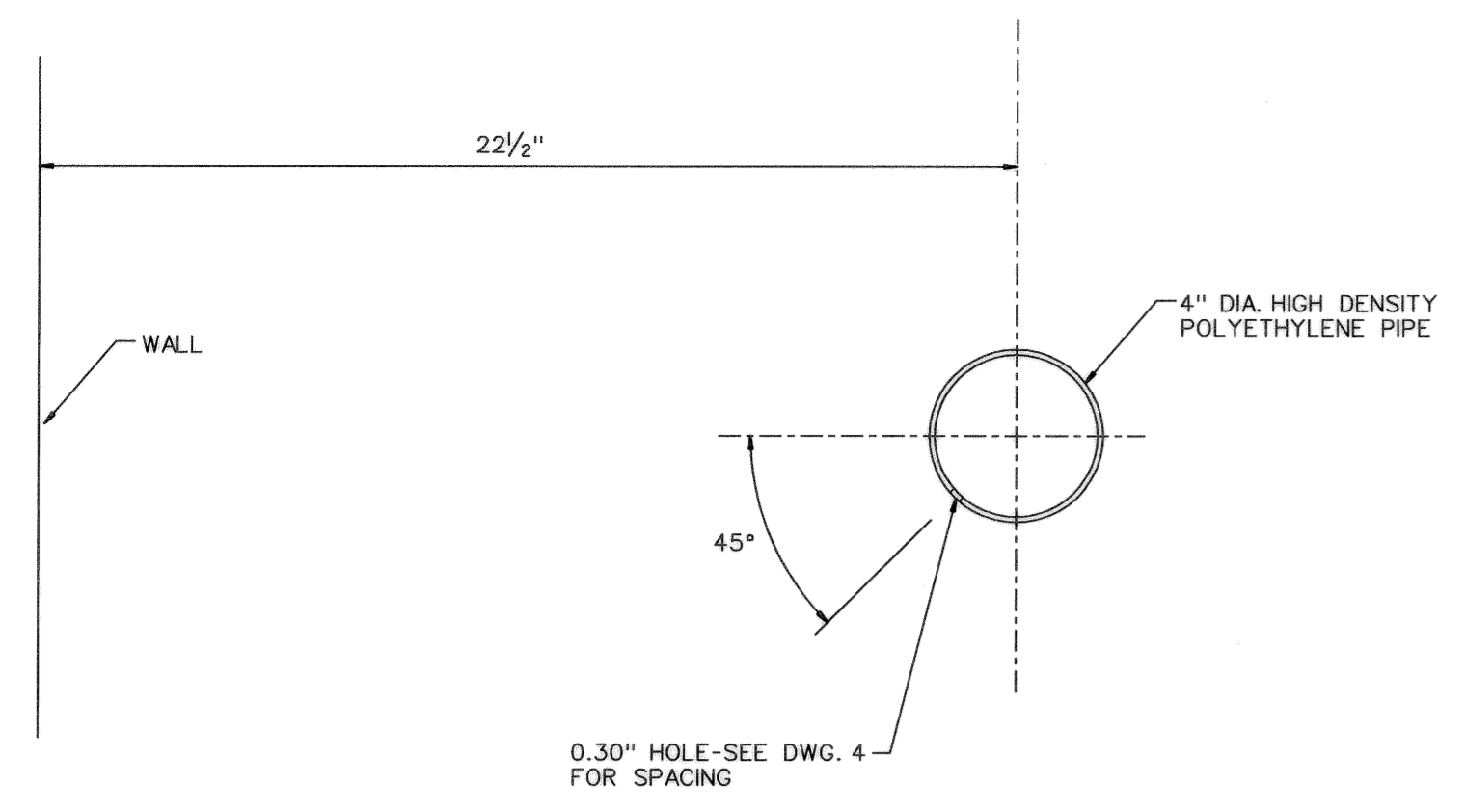
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DUPONT PARKWAY PUMP STATION
CONTRACT 40F
CITY OF CHATTANOOGA, TENNESSEE

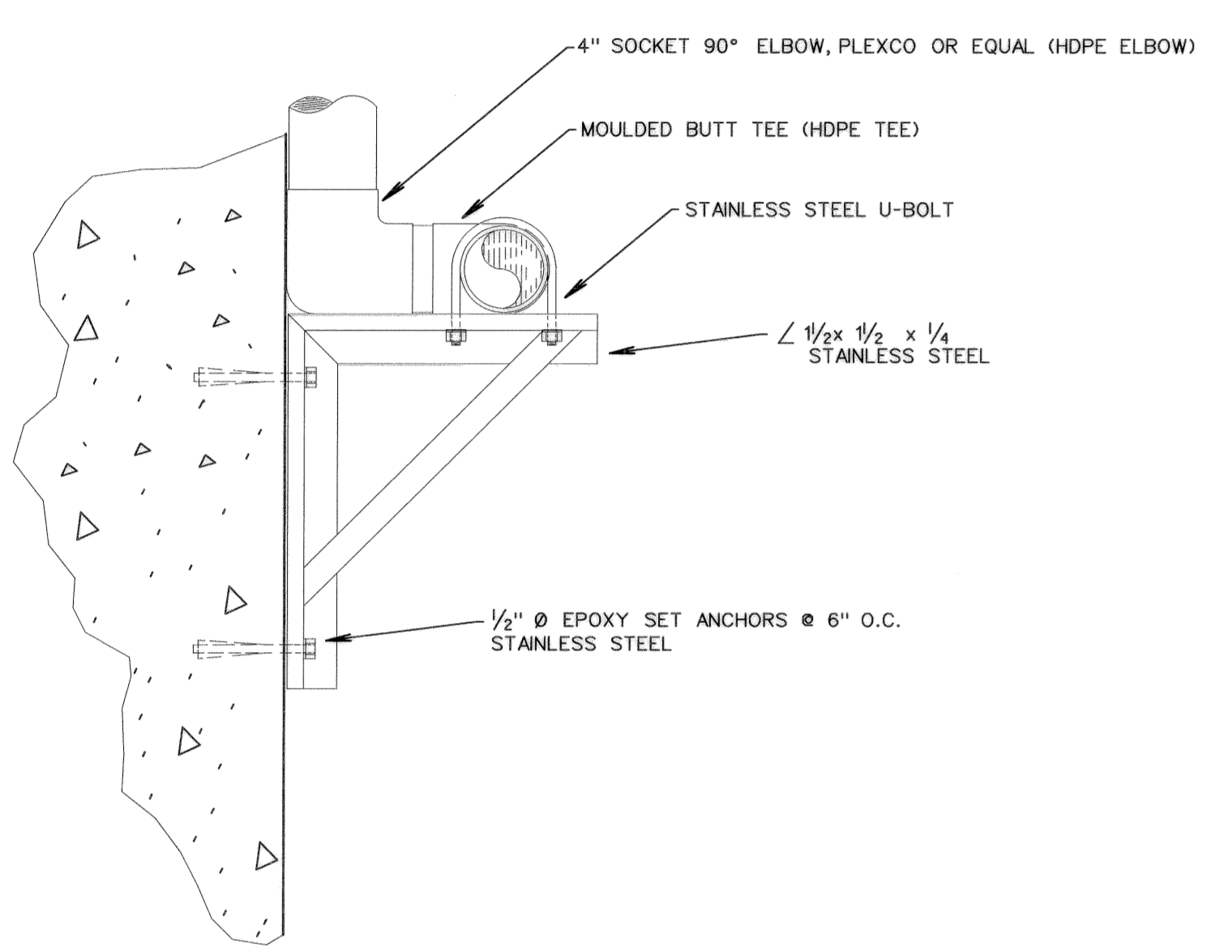
WETWELL
PLAN & SECTION

DRAWING NO.
92028-4.1

C:\P2028-ANSECT\DET.DWG

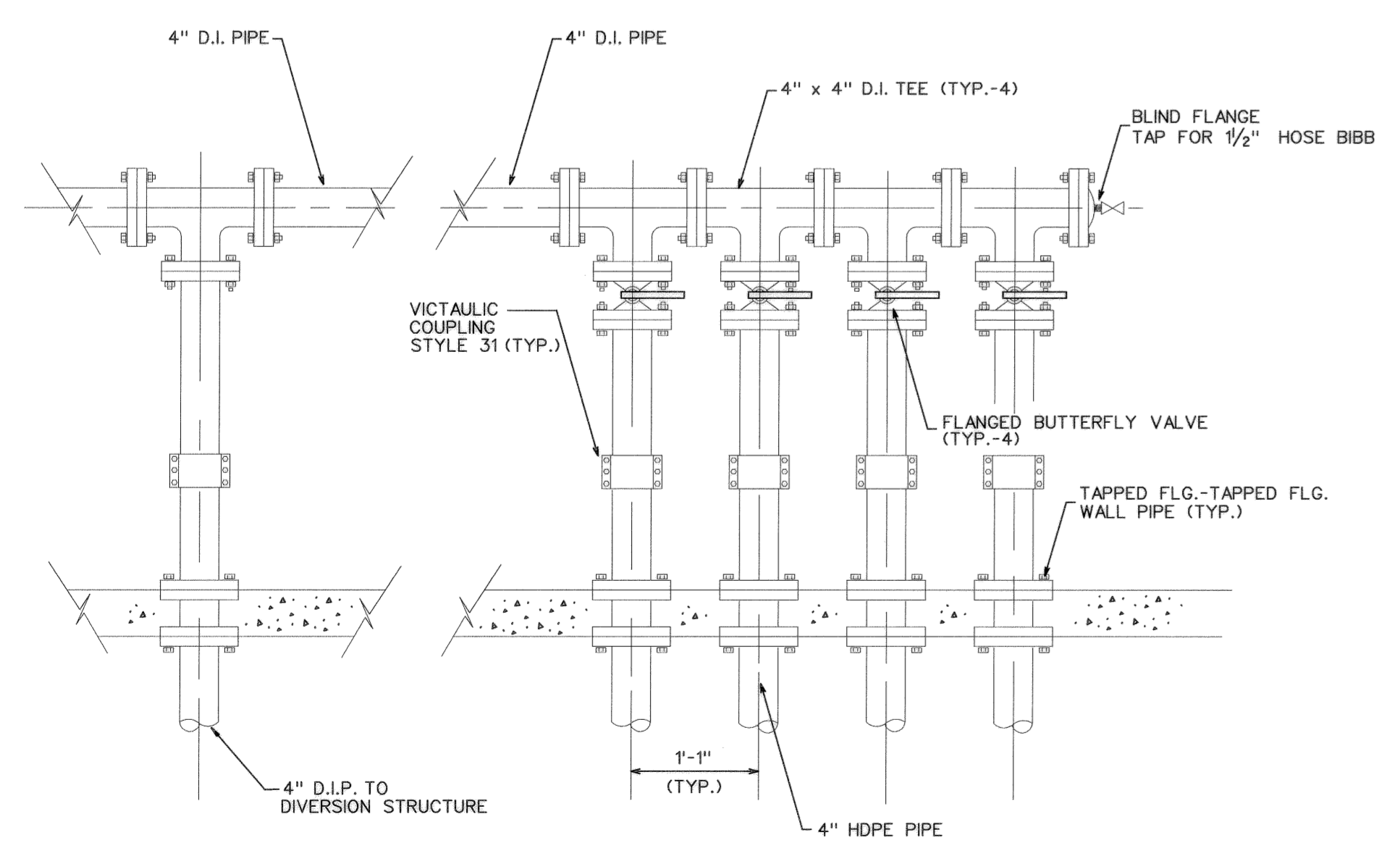


DETAIL 3
SCALE: 3" = 1'-0"

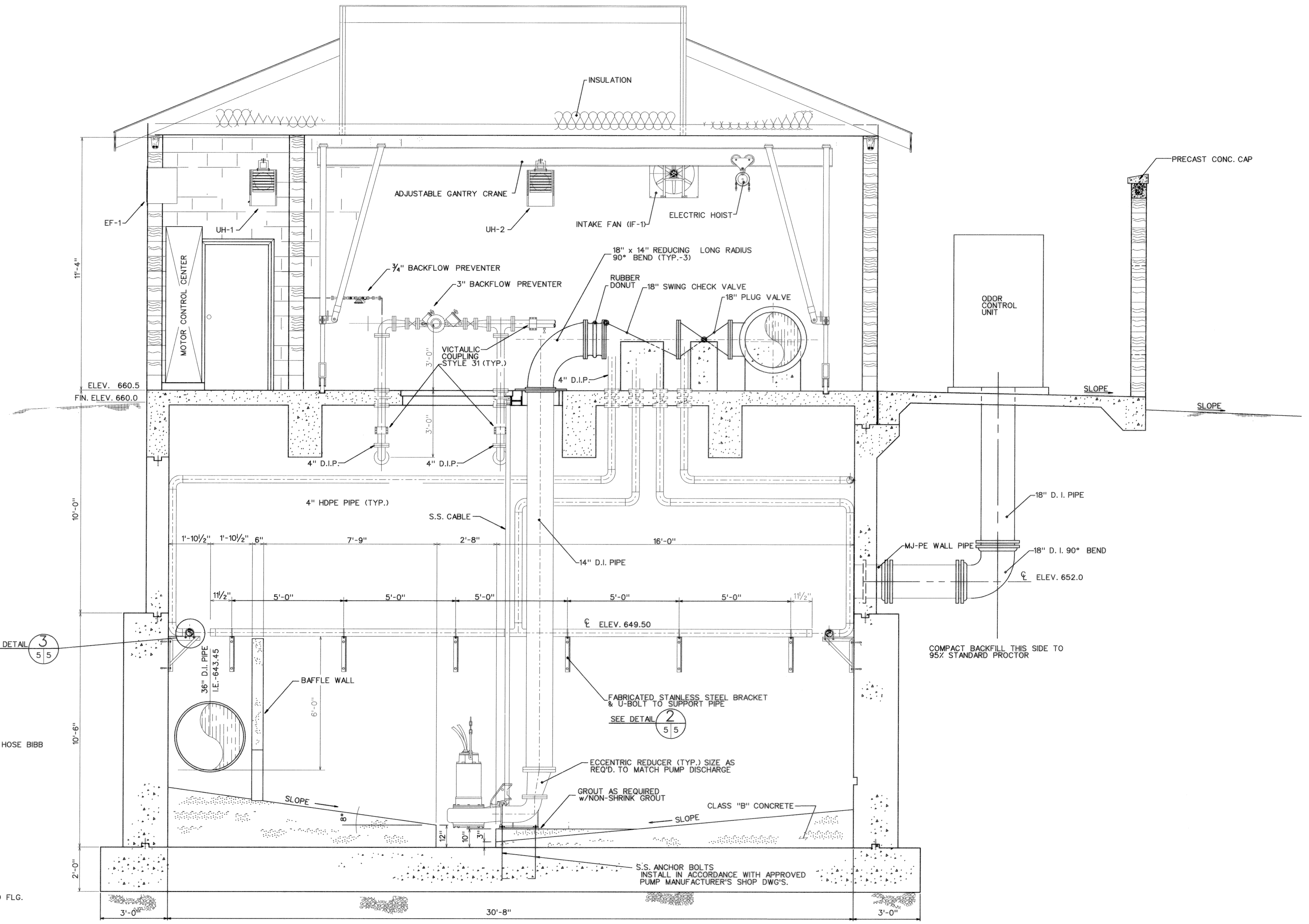


PIPE SUPPORT FOR PERFORATED HDPE PIPE

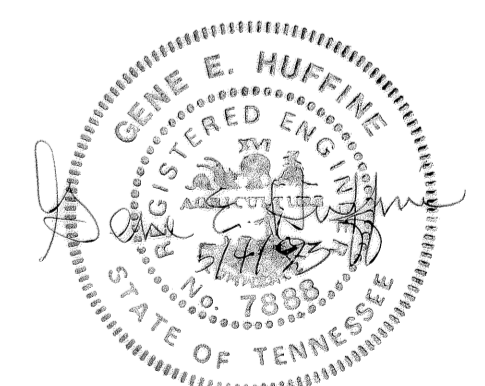
DETAIL 2
NO SCALE



WETWELL FLUSHING VALVES DETAIL 1
SCALE: 1/2" = 1'-0"



SECTION B
SCALE: 3/8" = 1'-0"



52223
Record Drawing
Date 1/5/96

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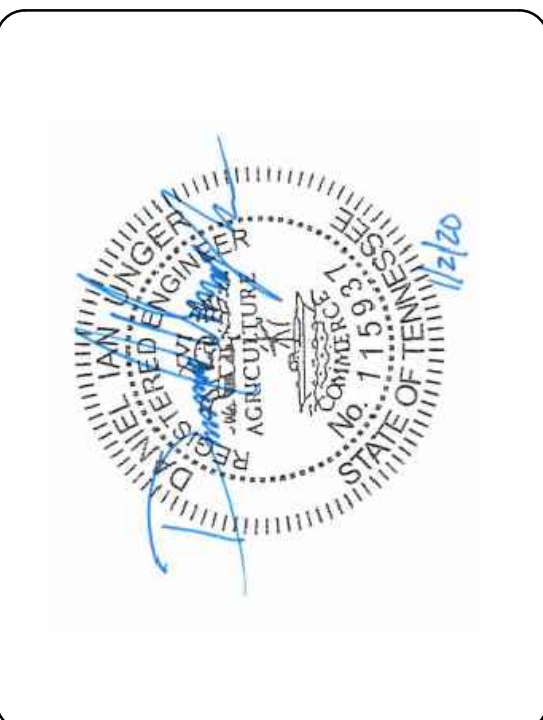
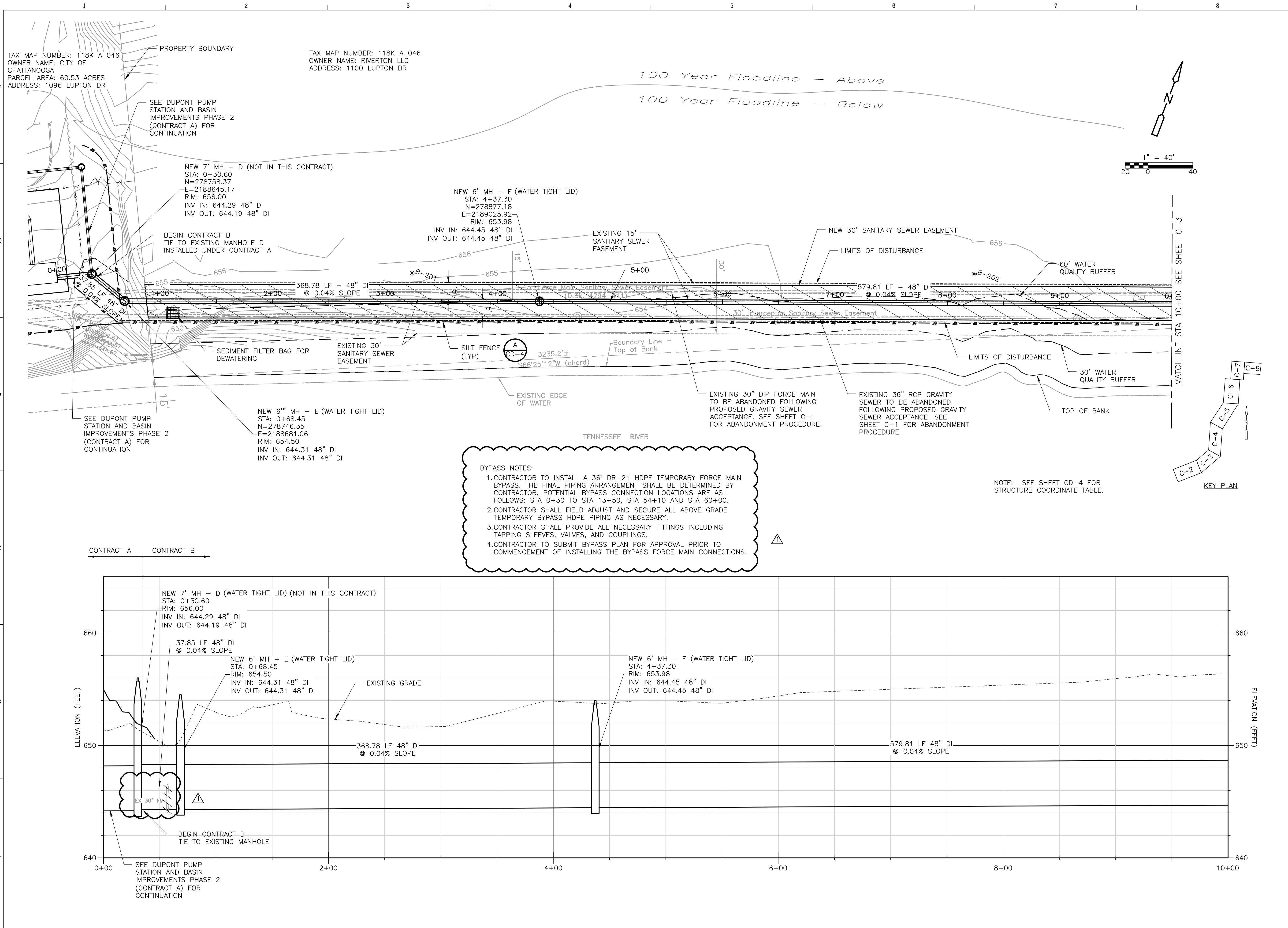
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DUPONT PARKWAY PUMP STATION
CONTRACT 40F
CITY OF CHATTANOOGA, TENNESSEE

SECTION & DETAILS

DRAWING NO.
92028-5.1

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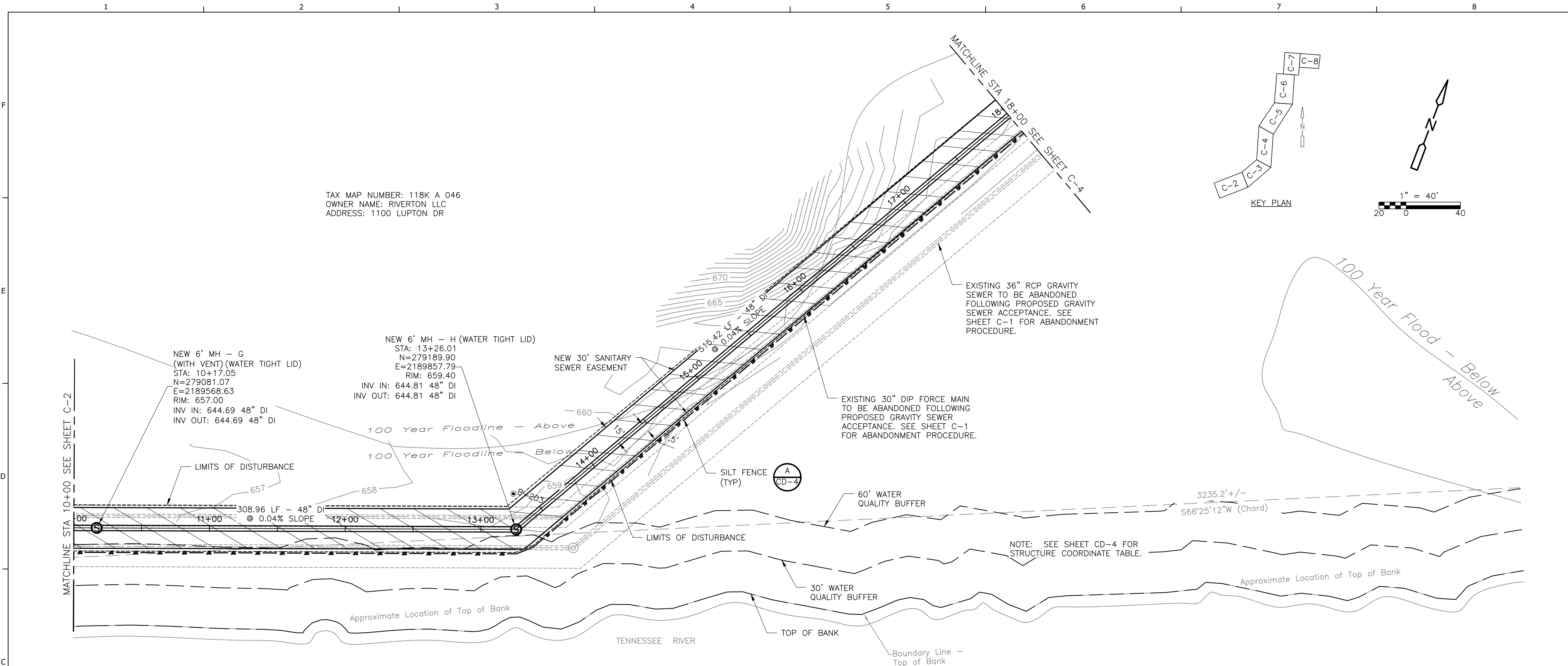
**DUPONT PUMP STATION AND
 BASIN IMPROVEMENTS - PHASE 2 - CONTRACT B**
CITY OF CHATTANOOGA, TN
CONSENT DECREE PROGRAM

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 DATE: NOVEMBER 2019
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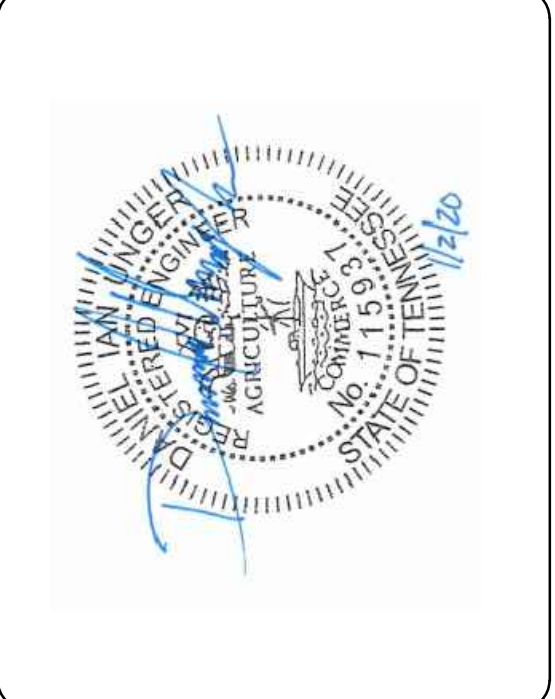
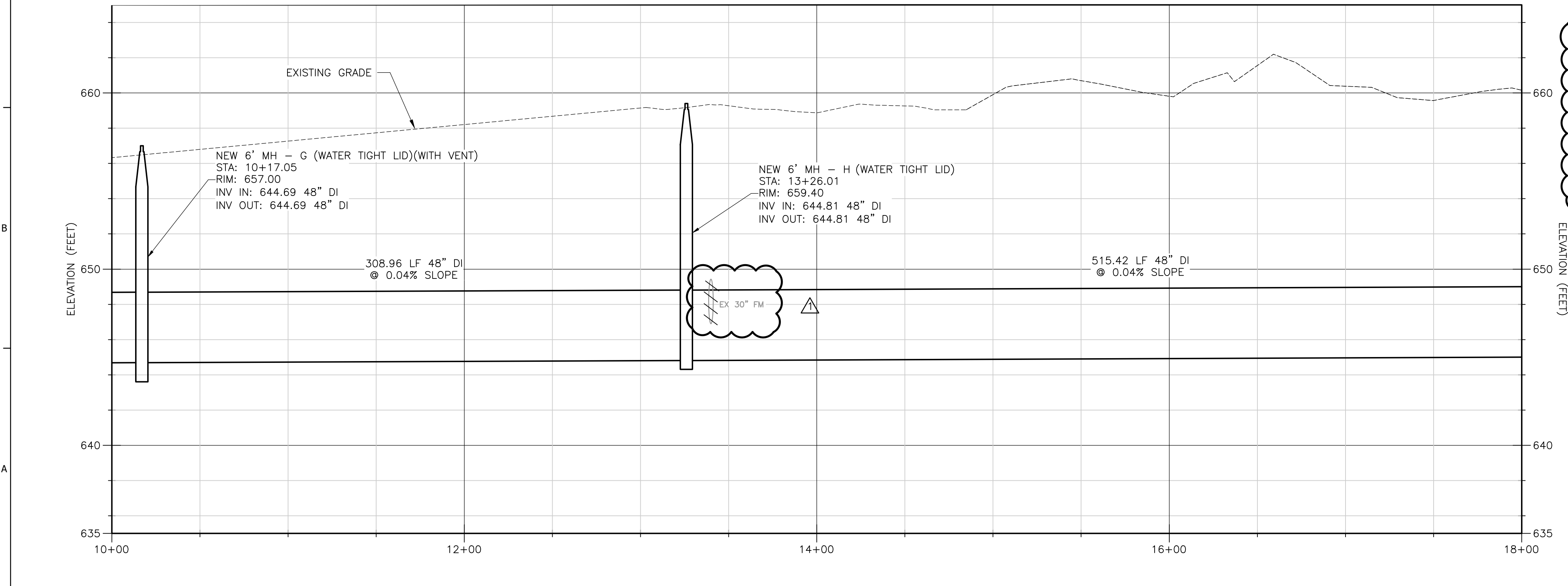
SHEET TITLE: CIVIL
YARD PIPING PROFILES I
 SHEET: C-2

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BYPASS NOTES:

1. CONTRACTOR TO INSTALL A 36" DR-21 HDPE TEMPORARY FORCE MAIN BYPASS. THE FINAL PIPING ARRANGEMENT SHALL BE DETERMINED BY CONTRACTOR. POTENTIAL BYPASS CONNECTION LOCATIONS ARE AS FOLLOWS: STA 0+30 TO STA 13+50, STA 54+10 AND STA 60+00.
2. CONTRACTOR SHALL FIELD ADJUST AND SECURE ALL ABOVE GRADE TEMPORARY BYPASS HDPE PIPING AS NECESSARY.
3. CONTRACTOR SHALL PROVIDE ALL NECESSARY FITTINGS INCLUDING TAPPING SLEEVES, VALVES, AND COUPLINGS.
4. CONTRACTOR TO SUBMIT BYPASS PLAN FOR APPROVAL PRIOR TO COMMENCEMENT OF INSTALLING THE BYPASS FORCE MAIN CONNECTIONS.



DUPONT PUMP STATION AND
BASIN IMPROVEMENTS - PHASE 2 - CONTRACT B
CITY OF CHATTANOOGA, TN
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DATE: NOVEMBER 2019

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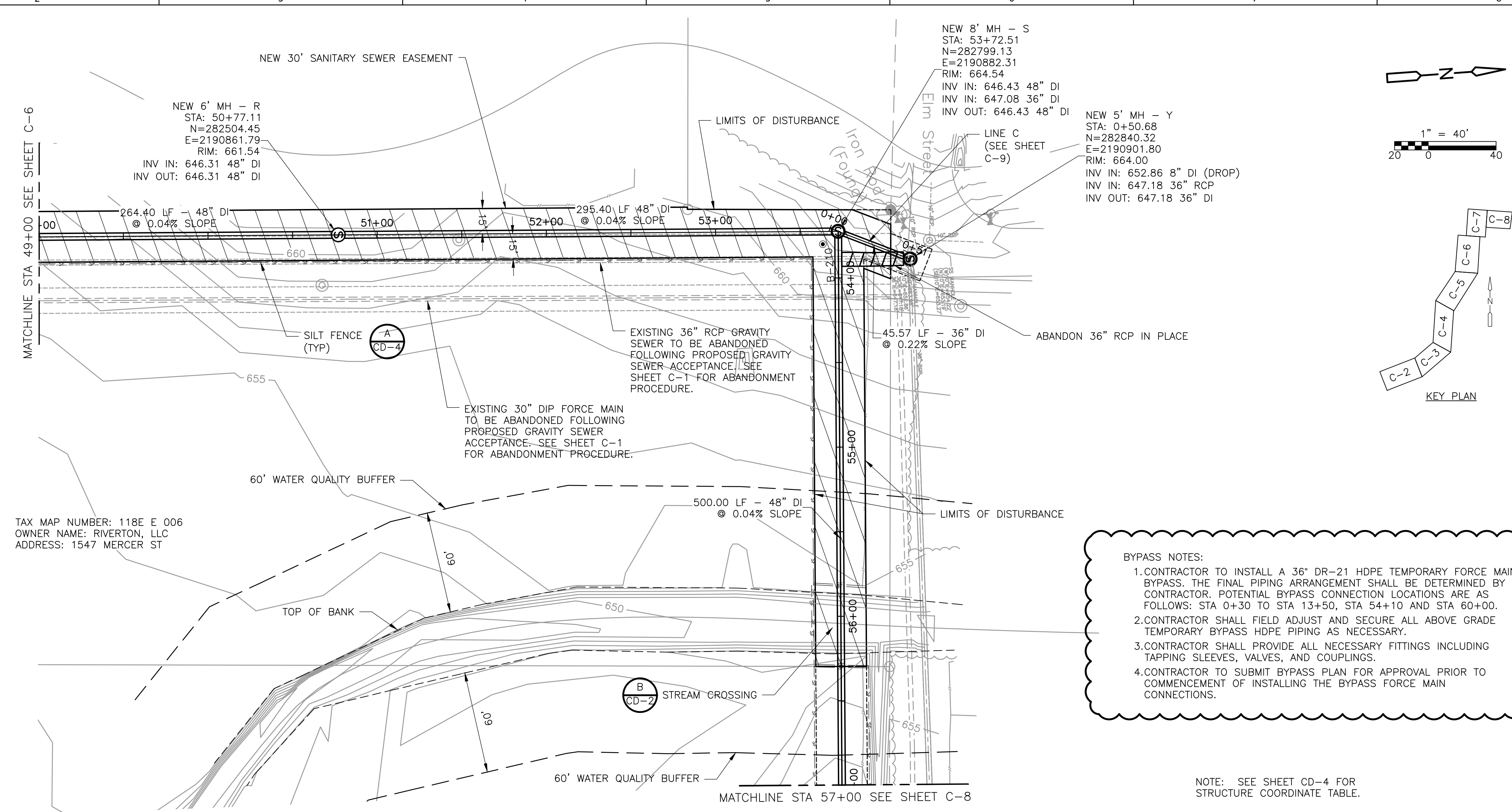
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YARD PIPING PROFILES II

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ISSUED FOR BID

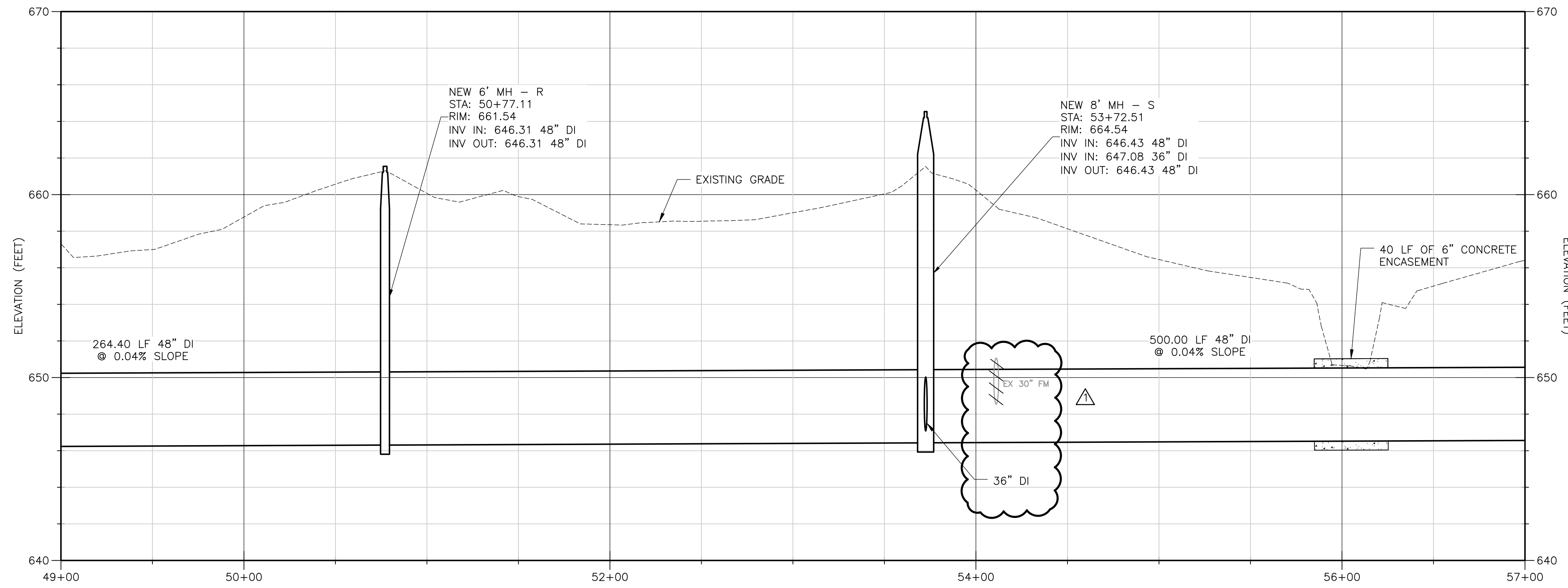
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- CONTRACTOR TO SUBMIT BYPASS PLAN FOR APPROVAL PRIOR TO COMMENCEMENT OF INSTALLING THE BYPASS FORCE MAIN CONNECTIONS.

NOTE: SEE SHEET CD-4 FOR STRUCTURE COORDINATE TABLE.



DUPONT PUMP STATION AND
BASIN IMPROVEMENTS - PHASE 2 - CONTRACT B
CITY OF CHATTANOOGA, TN
CONSENT DECREE PROGRAM

REV	DATE	ADDENDUM NO. 2	REVISION DESCRIPTION
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PROJECT NO: 129699-109746

DATE: NOVEMBER 2019

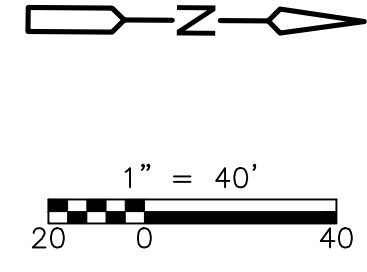
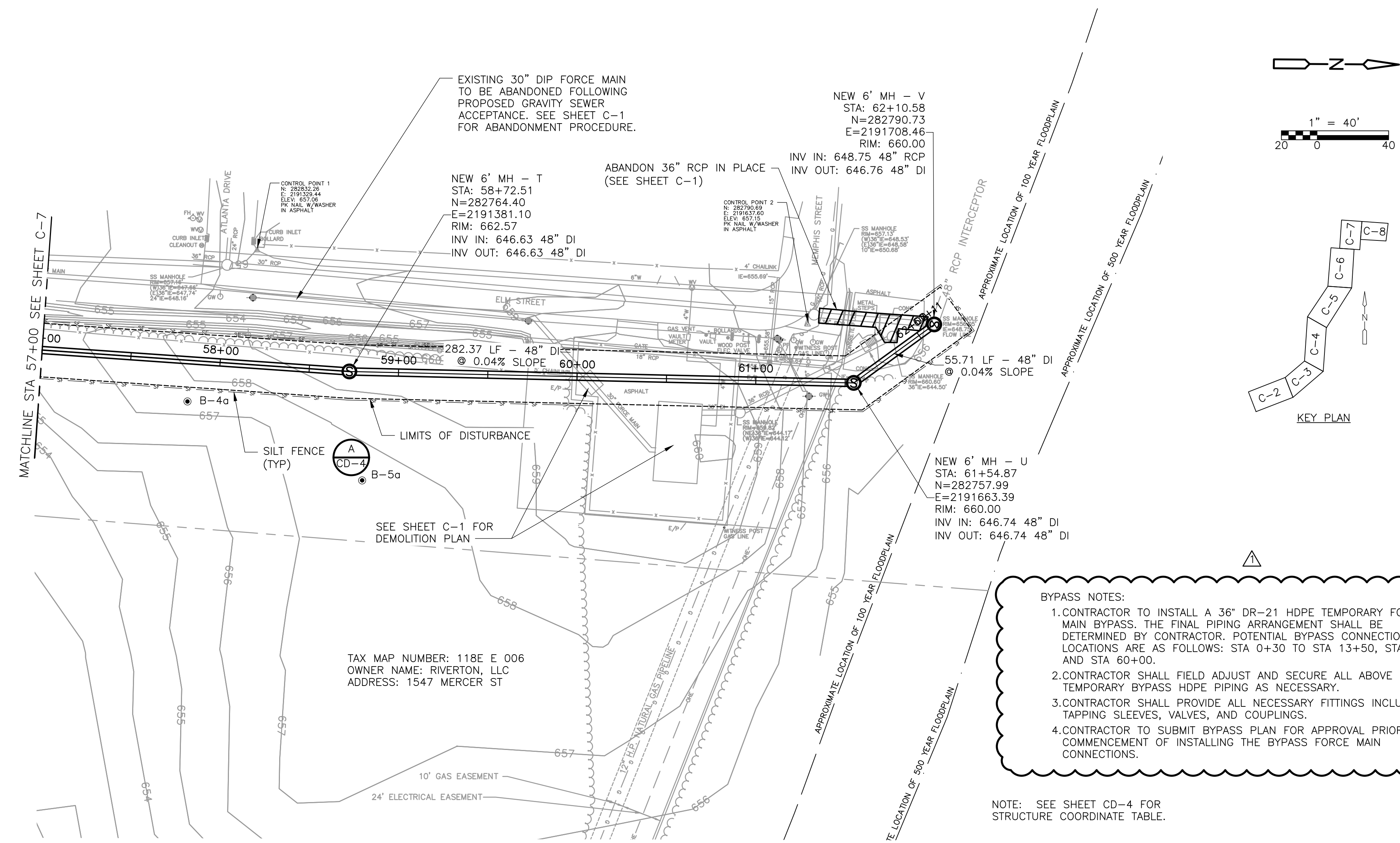
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YARD PIPING PROFILES VI

SHEET: C-7

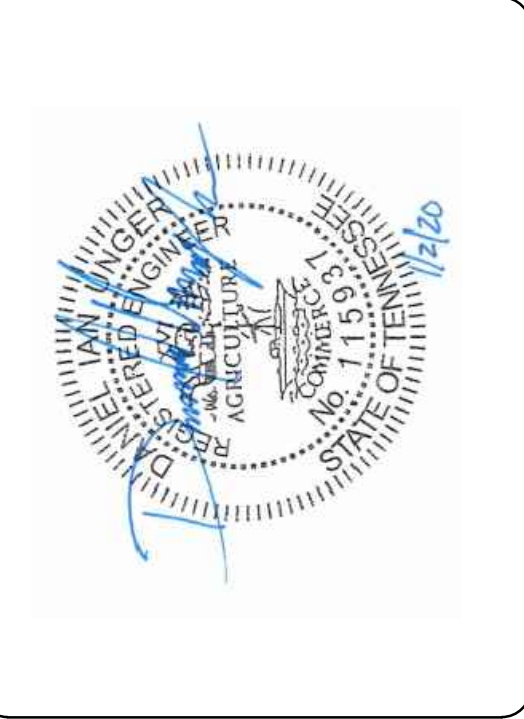
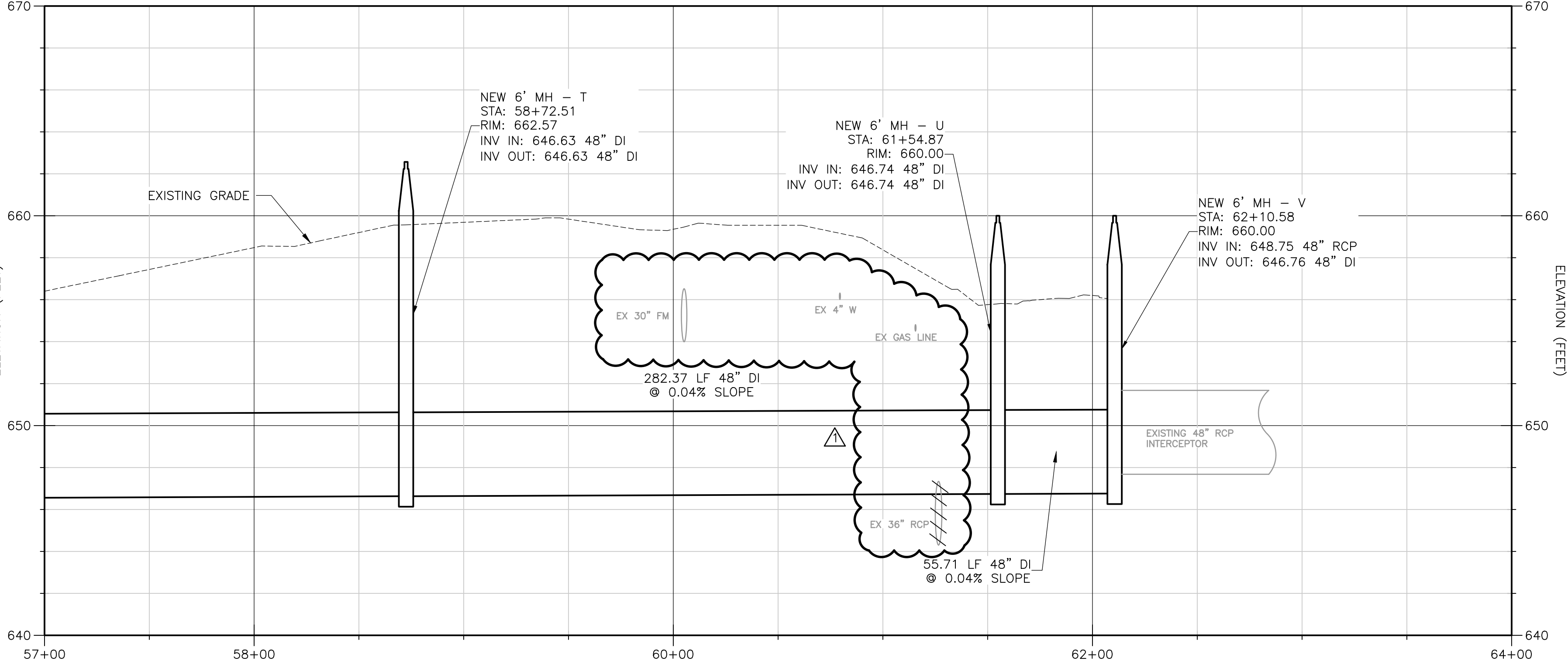
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2. CONTRACTOR SHALL FIELD ADJUST AND SECURE ALL ABOVE GRADE TEMPORARY BYPASS HDPE PIPING AS NECESSARY.
3. CONTRACTOR SHALL PROVIDE ALL NECESSARY FITTINGS INCLUDING TAPPING SLEEVES, VALVES, AND COUPLINGS.
4. CONTRACTOR TO SUBMIT BYPASS PLAN FOR APPROVAL PRIOR TO COMMENCEMENT OF INSTALLING THE BYPASS FORCE MAIN CONNECTIONS.

NOTE: SEE SHEET CD-4 FOR STRUCTURE COORDINATE TABLE.



DUPONT PUMP STATION AND BASIN IMPROVEMENTS - PHASE 2 - CONTRACT B
CITY OF CHATTANOOGA, TN
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THIS DRAWING MUST BE USED IN CONJUNCTION WITH THE APPLICABLE OR GOVERNING TECHNICAL SPECIFICATIONS AND OTHER CONTRACT DOCUMENTS.

PROJECT NO: 129699-109746
DATE: NOVEMBER 2019
DISC. LEAD: DU DESIGNER: VF CHECKER: CF

SHEET TITLE CIVIL

YARD PIPING PROFILES VII

SHEET C-8

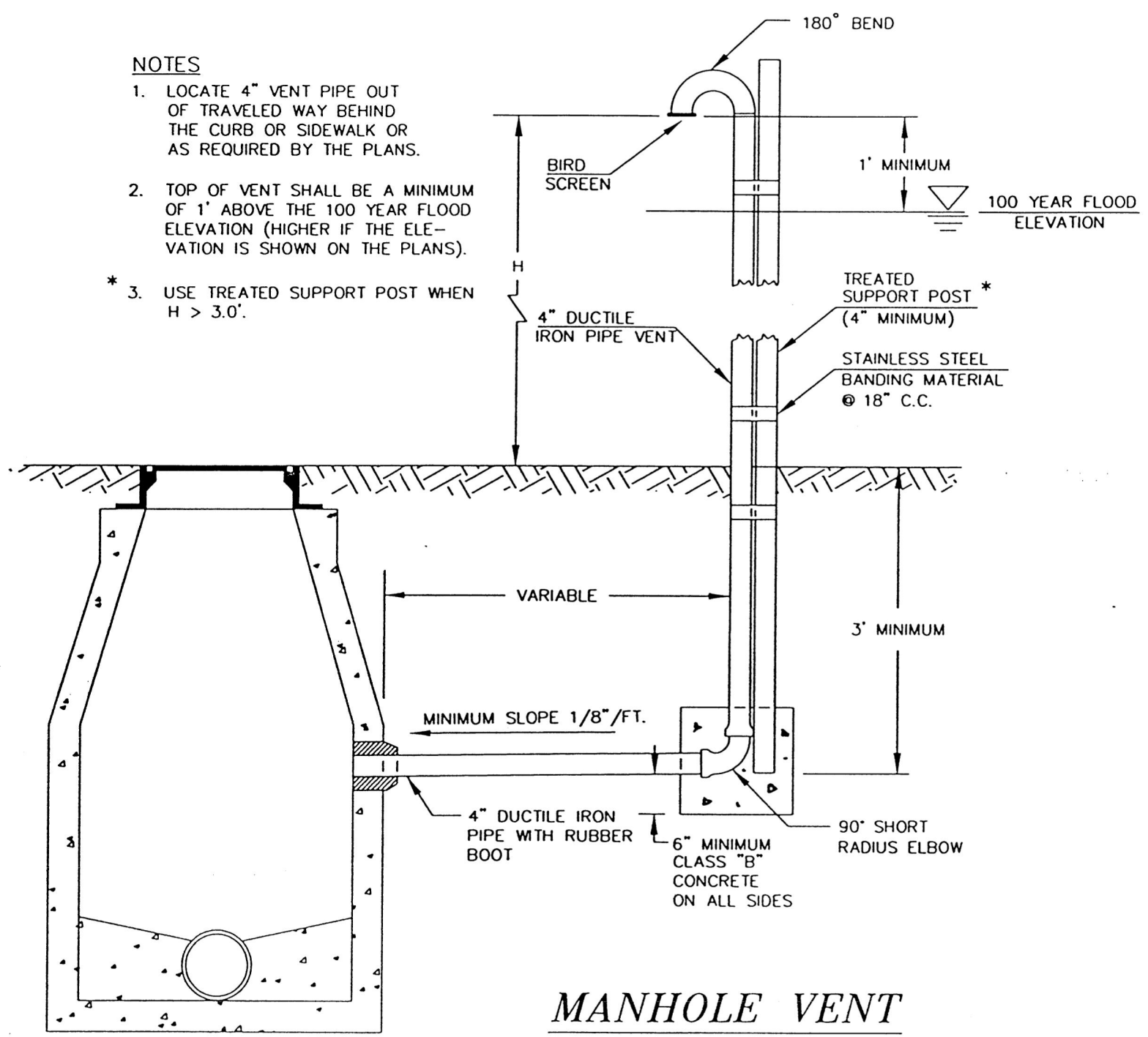
ISSUED FOR BID

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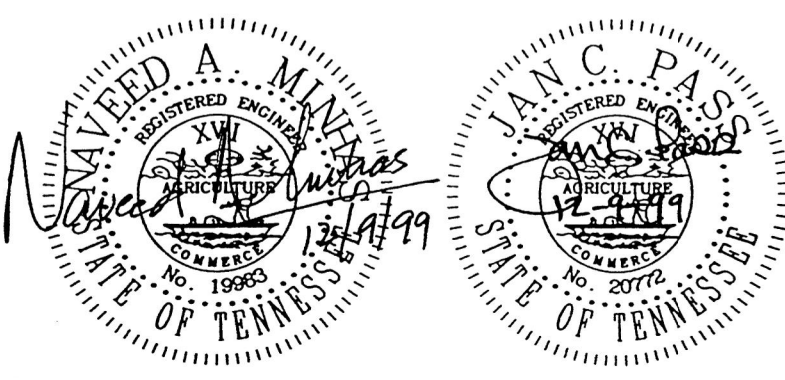
F:\STODMG\S1_... \Manhole-Drop-County_1.dwg Wed Dec 16 08:22 1999 STATIONS 24

NOTES

1. LOCATE 4" VENT PIPE OUT OF TRAVELED WAY BEHIND THE CURB OR SIDEWALK OR AS REQUIRED BY THE PLANS.
2. TOP OF VENT SHALL BE A MINIMUM OF 1' ABOVE THE 100 YEAR FLOOD ELEVATION (HIGHER IF THE ELEVATION IS SHOWN ON THE PLANS).
3. USE TREATED SUPPORT POST WHEN H > 3.0'.

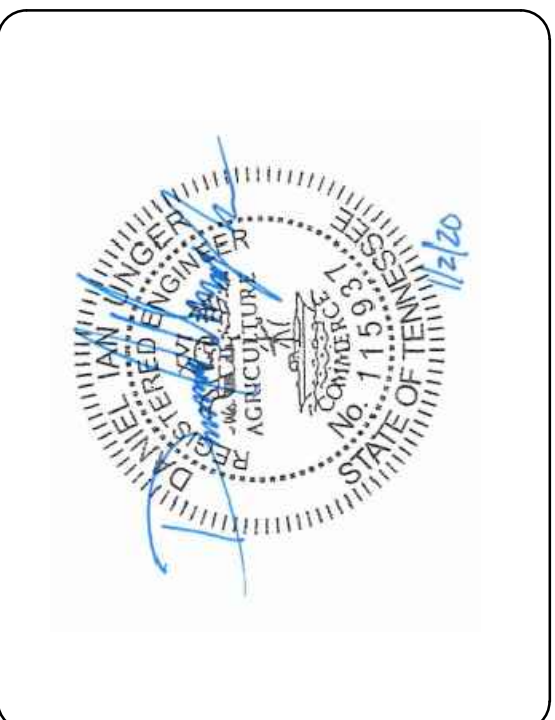


MANHOLE VENT



CITY OF CHATTANOOGA AND HAMILTON COUNTY		
SANITARY/STORM MANHOLE DETAILS		
NO.	INITIAL ISSUE REVISION	DATE
0		12/10/99
		DATE OF ORIGINAL ISSUE
		DECEMBER 10, 1999
		STANDARD NUMBER: SD-301.02

MANHOLE VENT
DETAIL
NTS (A)



DUPONT PUMP STATION AND BASIN IMPROVEMENTS - PHASE 2 - CONTRACT B
CITY OF CHATTANOOGA, TN
CONSENT DECREE PROGRAM

REV	DATE	ADDENDUM NO. 2	REVISION DESCRIPTION
1	1/20		

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PROJECT NO: 129699-109746
DATE: NOVEMBER 2019
DISC. LEAD: DU DESIGNER: VF CHECKER: CF
SHEET TITLE: CIVIL
SHEET: CD-6
ISSUED FOR BID