
**Turkey Creek Regional Sewer District
Fascination Place
Water Main Improvements**

ADDENDUM 2

January 30, 2026

Plan holders on the Turkey Creek Regional Sewer District, Fascination Place Water Main Improvement, are hereby notified of the following amendments to the contract documents. This Addendum is hereby made a part of the Contract Documents.

REFERENCE NOTE

- A Pre-bid meeting was conducted on January 22, 2026. The minutes to the meeting are attached for reference only, see attached.

SPECIFICATIONS

Instructions To Bidders: GRP not required at this time by the contractor.

Bid Form: Delete and replace with attached pages, Changes to bid items

Replace Pages 1 thru 9 with the attached Notice for Bids

Section C-01010: Delete and replace with attached pages, Changes to bid items.

Replace Pages 1 thru 19 with the attached Section 01010.

Section C-02599: Delete and replace with attached pages, Changes to meters and meter pits.

Replace Pages 1 thru 4 with the attached Section 02599.

DRAWINGS

All Sheets: Delete and replace all sheets, missing logo and checked by note, added sheets G-0.5- (General Summary), & SR-0.4- (Erosion Control Narrative). Note updates sheet W-0.2.

RECEIPT OF THIS ADDENDUM MUST BE ACKNOWLEDGED ON PAGE B-1 OF THE BID.

Turkey Creek Regional Sewer District

Project: Fascination Place Water Main Improvements

Date: January 22, 2026 @ 10:00 am

Location: 4852 N 1200 W, Cromwell, IN 46732

1. **Sign-In**, please complete the sign-in information, see attached
2. **Opening:**
No changes can be made at this meeting. Only an addendum can make changes to the construction documents.
3. **Addendum (1 at this time):** A second addendum will be issued after this meeting.
Addendum 1 was for the “Notice for Bids”. Some wording was revised for SRF.
4. **Communications & Correspondence**

a. TCRSD	Tim Woodward
b. Engineers	John Magsam, email at tcrsd-wm@jheng.com
c. Inspector	J&H
5. **Bid Date:** see below
6. **Bidding**

Bid Date: February 12, 2026 @ 2:00 pm to be opened during a public meeting
Deliver Bids to: Turkey Creek Regional Sewer District Wastewater Treatment Plant;
4852 N 1200 W, Cromwell, IN 46732

 - a. Include with your Bid:
 - i. Bid Pages C-410-1 through C-410-7
 - ii. Bid Security
 - iii. Evidence to do business in Indiana.
 - iv. Form 96
 - v. ~~GPR Breakdown, Attachment G in SRF Requirements, Exhibit 2~~ Not needed
 - b. Bid Award determination will be based on Base Bid
 - c. Bid to be held for up to 180 days.
 - d. Apparent Successful Bidder will be required to complete:
 - i. SRF Requirements in Exhibit 2
 1. Certification of Non-Segregated Facilities & Non-Discrimination
 2. Payroll Reporting (weekly or monthly) for Contractor & all Subcontractors
 - a. Wage/Fringe Benefit Certifications
 3. Good Faith (DBE) Efforts, Attachment D
 - a. Goals; MBE 7%, WBE 5%
 4. Attachment J, American Iron & Steel Certification
 5. Bidder's List Form
 - e. Davis Bacon Requirements, to be updated Friday before Bid Opening



7. Contract Time / Liquidated Damages (page A-1):

Approximate Start Date	Early August
Substantial Completion	270 days from Notice to Proceed date
Final Completion	300 days from the Notice to Proceed date
Liquidate Damages	\$500.00 per day

8. Description of the Work

To furnish and install approximately 11,000 LF of 6 to 12-inch water mains with hydrants, valves, around 180 meters & meter pits in Fascination Place subdivision.

a. Allowances

9. General & Supplementary Conditions, (Contractor to review in detail)

a. Insurance Requirements (see pages SC-5):

- i. Separate Policy:
- ii. Builders Risk

10. Payment:

a. Once a month, third Mondays

11. General:

- a. Contractor to notify residents of parking restrictions
- b. Pressure testing
- c. Erosion / Pollution Control
- d. Traffic Control; local roads
- e. 02200-9 4.03 B & C
 - i. Existing soil can be used adjacent to pavement if no organic material is present.

12. Other Comments and Discussions

- a. The service line can be PEXa pipe or copper per the Specification section 02558. Drawing sheet W-0.2 only states copper but PEXa is allowed. We will add this note to the drawing.
- b. The project will require erosion control. Turkey Creek RSD will apply for the SWPPP. The contractor will have to provide erosion control per the plan.
- c. Meter software setup will be through the contract. The meter supplier will need to provide meter reading services per the specifications.
- d. The contractor shall pay for the Electronic Project Management System (EMPS). It will be part of Modulization costs.



- e. Do sewer laterals need to meet the 18" vertical separation? No.
- f. Were soil borings done? We are expecting them soon and will post on bidding site when we get them.
- g. The alternate bid item for piping does not match the base bid piping quantities. We will review the items and adjust as necessary.
- h. What is the anticipated start date, can it be adjusted? We are looking to start construction this fall. If you need a later date than this, please let us know.
- i. Are there any tree replacements? No, not currently.
- j. Please note that right-of-way is 50-foot in the subdivision.
- k. Turkey Creek RSD is working on a "Right of Entry" to work on service lines that need to go beyond the right-of-way.
- l. Meter pits will be installed in the right-of-way. Currently there are approximately 25-27 existing shutoffs outside the right-of-way. The intent is to remove these shutoffs with the new service lines.
- m. Turkey Creek RSD is working on a boil advisory for the entire project timeline. TCRSD will provide the notices to the residents.
- n. Turkey Creek RSD offered to provide storage in their well field site. After reviewing other projects in the area during the construction timeline the District cannot offer the well field site for this project.

13. Meeting ended at 10:32am

Turkey Creek Regional Sewer District

Project: Fascination Place Water Main Improvements

Date: January 22, 2026 @ 10:00 am

Location: 4852 N 1200 W, Cromwell, IN 46732

Name	Representing	Phone Number	Email (optional)
John Magsam	Jones & Henry Eng	260-440-8304	j.magsam@jheng.com
Mike Harkness	Jones & Henry	260-440-8301	mharkness@jheng.com
Trevor Molen	Eshelman Excavating	260-302-7906	Trevor@eshelmanco-p.com
Branden Wood	C&E Excavating	574-350-6455	bwood@candeexcavating.com
Roy Fisher	KLS	260-621-5725	roy.fisher@kls.com
Brian Swallow	Niblock Excavating	(574) 326-8118	bswallow@niblockexc.com
Kevin L Sharick	KLS	260-350-1534	ksharick@kls.com
Tim Hochwalt	TCRSD	1-574-529-0098	Tim@TCRSD.org
Emily Delaney	TCRSD	260.850.4341	emily@tcrsd.ca
John W. Bernt	Bernt, Inc	(260) 489-4541	johnebernt@rcn.com
Jeffrey S. Bernt	Bernt, Inc	(260) 489-4541	jsbernt@berntq.bsu.edu

Turkey Creek Regional Sewer District

Project: Fascination Place Water Main Improvements

Date: January 22, 2026 @ 10:00 am

Location: 4852 N 1200 W, Cromwell, IN 46732

Name	Representing	Phone Number	Email (optional)
Bob KuHns	SelgeConst.	(574)292-8943	bkuhns@selgeconstruction.com
Ryan Curtis	TCRSD		
John Jones	TCRSD		
Ethan Knapp	HRP Construction	574-271-7800	Estimating@HRPconstruction.com

BID FORM

FASCINATION PLACE WATER IMPROVEMENTS

ARTICLE 1 – BID RECIPIENT

1.01 This Bid is submitted to:

Turkey Creek Regional Sewer District
4852 North 1200 West
Cromwell, Indiana 46732

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 150 days after the Bid opening, or for such longer period of time that Bidder may agree to in writing upon request of Owner.

ARTICLE 3 – BIDDER’S REPRESENTATIONS

3.01 In submitting this Bid, Bidder represents that:

A. Bidder has examined and carefully studied the Bidding Documents, and any data and reference items identified in the Bidding Documents, and hereby acknowledges receipt of the following Addenda:

Addendum No.

Addendum, Date

- B. Bidder has visited the Site, conducted a thorough, alert visual examination of the Site and adjacent areas, and become familiar with and satisfied itself as to the general, local, and Site conditions that may affect cost, progress, and performance of the Work.
- C. Bidder is familiar with and has satisfied itself as to all 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 adjacent to the Site and all drawings of physical conditions relating to existing surface

or subsurface structures at the Site that have been identified in the Supplementary Conditions, especially with respect to Technical Data in such reports (geotechnical) and drawings, if any, at or adjacent to the Site that have been identified in the Supplementary Conditions, especially with respect to Technical Data in such reports and drawings.

- E. Bidder has considered the information known to Bidder itself; 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 any 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; and (3) Bidder's safety precautions and programs.
- F. Bidder agrees, based on the information and observations referred to in the preceding paragraph, that no further examinations, investigations, explorations, tests, studies, or data are necessary for the determination of this Bid for performance of the Work at the price 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 confirms that 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 and furnishing of the Work.
- J. The submission of this Bid constitutes an incontrovertible representation by Bidder that Bidder has complied with every requirement of this Article, and that without exception the Bid and all prices in the Bid are premised upon performing and furnishing the Work required by the Bidding Documents.

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 price(s) included on C-410-4 and C-410-8. Bidder shall fill in all blanks on the Bid Form.

UNIT PRICE BID

Bidder acknowledges that (1) each Bid Unit Price includes an amount considered by Bidder to be adequate to cover Contractor's overhead and profit for each separately identified item, and (2) 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.

Item No.	Description	Estimated Quantity	Unit	Unit Cost in Numbers	Unit Price in Words	Total Estimated Cost of Item
1	Mobilization	1	LS			
2	Audio-Video Recording of the Zone of Influence	1	LS			
3	Pollution Prevention	1	LS			
4	Survey & Staking	1	LS			
5	Maintenance of Traffic	1	LS			
6a	6-inch Sanitary Sewer Tap Connection	40	EA			
6b	6-inch, PVC-SDR 26, Lateral	800	LF			
7a	6-inch Watermain, Open Cut, PVC / DIP	6,310	LF			
7b	8-inch Watermain, Open Cut, PVC / DIP	3,015	LF			
7c	12-inch Watermain, Open Cut, PVC / DIP	745	LF			
7d	12-inch watermain, HDPE, DR11, DI, HDD	480	LF			
7e	6-inch Insertion Tee	1	EA			

Addendum 2
Turkey Creek RSD
Fascination PI W/M Improvements

Item No.	Description	Estimated Quantity	Unit	Unit Cost in Numbers	Unit Price in Words	Total Estimated Cost of Item
7f	8-inch Insertion Tee	1	EA			
7g	Water Main Connection @ Robinhood	1	EA			
8a	6-inch Insertion Valve	1	EA			
8b	8-inch Insertion Valve	1	EA			
8c	6-inch Gate Valve	17	EA			
8d	8-inch Gate Valve	8	EA			
8e	12-inch Gate Valve	2	EA			
8f	Valve Removal of Existing Valve	8	EA			
9a	Hydrants	12	EA			
9b	Hydrant removal	5	EA			
10a	Service Tubing, 3/4-inch, Open Cut	1,500	LF			
10b	Service Tubing, 1-inch, Bored	2,800	LF			
10c	Service Tubing, 1-inch, Open Cut	710	LF			
10d	¾-inch Lead Service Line Replacement (Undistributed)	1	LS	\$15,000 00	Fifteen thousand dollars	\$15,000 00

**868-8305.001
01/2026**

**Addendum 2
Turkey Creek RSD
Fascination PI WM Improvements**

Item No.	Description	Estimated Quantity	Unit	Unit Cost in Numbers	Unit Price in Words	Total Estimated Cost of Item
10e	Water Service Connection, 1-inch	135	EA			
10f	¾-inch Water Meter, Install only	186	EA			
10g	1-inch Water Meter, Install only	2	EA			
10h	Single Water Meter Pit	83	EA			
10i	Dual Water Meter Pit	52	EA			
11a	Automated Meter-Reading Software & Equipment	1	LS		Deleted Item	
11b	Advanced Metering Infrastructure Equipment	1	LS		Deleted Item	
12	Special Backfill	3,300	CY			
13a	12-inch, #8 Aggregate Base	3,000	SY			
13b	8-inch, #53 Aggregate Drive	1,000	SY			
13c	3-inch Asphalt Cement Base	370	TON			
13d	1-1/2-inch Asphalt Cement Surface	200	TON			
14	6-inch Concrete Drive	300	SF			

Addendum 2
Turkey Creek RSD
Fascination PI WM Improvements

ARTICLE 6 – TIME OF COMPLETION

6.01 Bidder agrees that the Work will be substantially complete within 270 calendar days after the date when the Contract Times commence to run as provided in Paragraph 4.01 of the General Conditions and will be completed and ready for final payment in accordance with Paragraph 15.06 of the General Conditions within 310 calendar days after the date when the Contract Times commence to run.

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

ARTICLE 7 – ATTACHMENTS TO THIS BID

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

- A. Required Bid security.
- B. Evidence of authority to do business in the state of the Project.
- C. Required Bidder Qualification Statement with supporting data; and
- D. List of Proposed Subcontractors.
- E. List of Proposed Suppliers.
- F. List of Project References;
- G. Contractor's License No.: _____ **[or]** Evidence of Bidder's ability to obtain a State Contractor's License and a covenant by Bidder to obtain said license within the time for acceptance of Bids; *[List other documents and edit above as pertinent]*

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

BIDDER: *[Indicate correct name of bidding entity]*

By:

[Signature] _____

[Printed name] _____

(If Bidder is a corporation, a limited liability company, a partnership, or a joint venture, attach evidence of authority to sign.)

Attest:

[Signature] _____

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01/2026

Addendum 2
Turkey Creek RSD
Fascination PI WM Improvements

[*Printed name*] _____

Title: _____

Submittal Date: _____

Address for giving notices:

Telephone Number: _____

Fax Number: _____

Contact Name and e-mail address: _____

Bidder's License No.: _____
(where applicable)

**SECTION 01010
DEFINITION OF CONTRACT ITEMS**

PART 1 GENERAL

1.01 FOREWORD

A. This Section describes the various Contract Items listed in the Bid.

1.02 WORK INCLUDED

A. Under each Item the Contractor shall furnish all labor, materials, tools, plant equipment, supplies, maintenance of equipment, heating, lighting and power, insurance and bonds, coordination, and all Work and in accordance with the Specifications Parts A, B, and Divisions 1 through 16 of Part C and necessary to complete the Work in accordance with the obvious or expressed intent of the Contract Documents.

1.03 WORKMANSHIP AND MATERIALS

A. The quality of workmanship and materials entering into any and all of the Items and the Work included shall conform to pertinent sections, paragraphs, sentences, and clauses, both directly and indirectly applicable thereto, contained in the Contract Documents, whether or not direct reference to such occurs under each Item in this Section.

1.04 PAYMENT

A. The lump sum and unit prices stated in the Bid shall be payment in full for the completion of all Work specified and described or required to be included in the Contract, complete, and ready for use.

PART 2 PRODUCTS

Not used.

PART 3 EXECUTION

Not used.

PART 4 SPECIAL PROVISIONS

4.01 CONTRACT ITEMS

A. The contract items are defined on the following pages.

**ITEM 1
MOBILIZATION**

1.01 DESCRIPTION

- A. This Item is intended to pay non-recurring cost to the Contractor not recovered under other pay Items of the Contract.
- B. This Item shall include, but not be limited to, the cost for moving equipment in and out, performance and payment bonds, insurance, permits, utility connection cost, and other expenses associated with preparation for construction in accordance with the requirements of the Contract Documents.
- C. This item is intended to be in accordance with the Supplemental Conditions SC 2.6.
- D. This item specifically includes the cost of the EPMS specified in section 01320.

1.02 WORK NOT INCLUDED

- A. Any Work specifically included under other Bid Items.

1.03 DEFINITION OF ITEM

- A. Item 1 - Includes Mobilization

1.04 MEASUREMENT

- A. The lump sum stated in the Bid shall be full compensation for all Work required under Item 1.
- B. The Contractor is reminded of the requirements of Supplemental Conditions Section 2.6.3 regarding Mobilization and Demobilization costs as a percentage of the total project cost.

1.05 PAYMENT

- A. Payment shall be in accordance with Supplemental Conditions SC 2.6 The Engineer may reduce the amount to be paid under Item 1 if the percentage requested is not represented by the actual amount performed.

**ITEM 2
AUDIO-VIDEO RECORDING**

2.01 DESCRIPTION

- A. Under this Item, the Contractor shall produce and deliver to the Owner, color audio-video recordings of existing topography within the zone of influence along all water main routes and audio-video recordings of designated buildings and dwellings as specified and directed.

2.02 WORK NOT INCLUDED

Not used.

2.03 DEFINITION OF ITEM

A. Item 2 - Includes Audio-Video Recording of the Zone of Influence.

2.04 MEASUREMENT

- A. The lump sum stated in the Bid shall be full compensation for all Work required under Item 2.
- B. Audio-video recording of the defined zone of influence along specified routes as shown in the drawings of proposed water main & meters.

2.05 PAYMENT

A. The lump sum price stated in the Bid for Item 2 shall be full compensation for all audio-video recording production.

ITEM 3
POLLUTION PREVENTION

3.01 DESCRIPTION

- A. This Item shall include all Work specified in the SWPPP including preparation of a Pollution Prevention Plan, installation, maintenance, and removal of all Pollution Prevention measures.
- B. The weekly inspection and reporting of all Pollution Prevention measures shall be included under this item.
- C. Obtaining permits and co-permittee coverage specified shall be included under this item.

3.02 WORK NOT INCLUDED

Not used.

3.03 DEFINITION OF ITEM

A. Item 3 - Includes Pollution Prevention.

3.04 MEASUREMENT

A. The quantities to be paid for under Item 3 shall be lump sum for all pollution prevention measures.

3.05 PAYMENT

- A. The lump sum stated in the Bid shall be full compensation for all Work required under Item 3.
- B. Payment shall be made in the amount of 20% of the lump sum Bid price for Item 3 for the first monthly estimate and 5% for each monthly estimate thereafter until the lump sum Bid amount for Item 3 has been paid.
- C. The Engineer may reduce the amount to be paid under Item 3 if the percentage requested is not represented by the actual amount performed.

ITEM 4 SURVEY AND STAKING

4.01 DESCRIPTION

- A. Under this Item, the Contractor shall perform all work that pertains to the survey and staking of the project, as shown on the Drawings and specified within relevant sections.
- B. This Item shall include all survey and staking to locate easements, right-of-way, place structures, force mains, and sewers required to complete the work as specified.
- C. Surveying of the project includes staking station deflection points in the field prior to work commencing. A minimum of 3 ties are required for reestablishing survey points at any time during and after the construction phase.

4.02 DEFINITION OF ITEM

- A. Item 4 - Includes Survey and Staking

4.03 MEASUREMENT

- A. The lump sum to be paid for under Item 4 shall be to stake, inspect, maintain and record survey control items throughout the project.

4.04 PAYMENT

- A. The lump sum price stated in the Bid shall be full compensation for survey and staking of the work as required to completed work as specified, shown on the Drawings or required.

ITEM 5 MAINTENANCE OF TRAFFIC

5.01 DESCRIPTION

- A. This Item shall include the furnishing and maintaining of measures required to maintain traffic through or around the proposed Work.
- B. This Item shall include detour routes as specified in the Contract Documents.
- C. Flaggers may be required as needed during construction, including installation of the water main, removing existing items, service lines, road repair, etc.

5.02 WORK NOT INCLUDED

Not used.

5.03 DEFINITION OF ITEM

- A. Item 5 – Includes Maintenance of Traffic.

5.04 MEASUREMENT

- A. The quantities to be paid for under Item 5 shall be lump sum for all maintenance of traffic measures.

5.05 PAYMENT

- B. The unit price stated in the Bid for Item 5 shall be full compensation for the lump sum of maintenance of traffic measures provided.

ITEMS 6 SEWER PIPE

6.01 DESCRIPTION

- A. Under these Items, the Contractor shall furnish and perform all Work necessary for the installation of the sewer pipe damaged as part of the installation of the new water main, service lines or meter pit.
- B. These Items shall include all Work to install the sewers, including but not limited to the following: excavation; pavement removal; saw-cutting; concrete drive, curb and walk removal; removal and replacement of fences including fabric and posts; hauling excess spoil material from Site; backfill; compaction; bedding; pipe materials; fittings; connections to existing sewers; construction maintenance and removal of temporary access to the Work area; and related Work such as performing material testing; deflection and infiltration tests.
- C. Sewer tap connection, for existing sewer pipe, to the sewer shall be included under these Items.
- D. Maintaining existing sewers in operation and temporary flow stoppage, diversions and sewer flow by-pass connections shall be included under these Items.
- E. All Work required to dewater trenches is included under these Items.
- F. Temporary supporting existing utilities, locating of existing utilities, exploratory excavation and backfill required by the utility owner for existing utilities encountered during sewer construction is included under these Items.
- G. Vertical pipe sections and riser pipes for 6-inch lateral sewers and cleanouts shall be included under these Items.

- H. No addition compensation shall be considered for sewers installed within 2 feet of the elevation shown on the Drawings.
- I. The placement, compaction and grading of fill required for backfilling drainage ways enclosed in pipes is included under this Item.

6.02 WORK NOT INCLUDED

- A. Pavement replacement within the Contract limits is included under other Items.
- B. Seeding, mulching, and fertilizing all disturbed lawn areas shall be included under other Items.
- C. Sewers installed to convey sewage around or through the Work during construction will not be measured for payment.
- D. Damage to existing utilities shall be the responsibility of the Contractor.
- E. The furnishing and placing of special backfill in areas specified under Section 02200, is included under other Items.

6.03 DEFINITION OF ITEMS

- A. Item 6a – Includes 6-inch Sanitary Sewer Tap Connection
- B. Item 6b - Includes 6-inch, PVC – SDR 26 Laterals

6.04 MEASUREMENT

- A. The quantities to be paid under Item 6a shall be full compensation for each lateral tap provided and installed in accordance with the Specifications and Drawings.
- B. The quantities to be paid under Item 6b shall be the horizontal length of pipe measured parallel to the axis of the line along the surface of the ground.

6.05 PAYMENT

- A. The unit price stated in the Bid for Item 6a shall be full compensation for each lateral tap supplied and installed as specified and required.
- B. The unit prices stated in the Bid for Item 6b shall be full compensation for each linear foot of pipe of the sizes furnished and installed as specified, so measured.

**ITEMS 7
WATER LINES**

7.01 DESCRIPTION

- A. Under these Items, the Contractor shall furnish and perform all Work necessary for the installation of the water lines as scheduled, shown on the Drawings and specified, in conformance with relevant sections of the Specifications.

- B. These Items shall include all Work to install the waterlines , including but not limited to the following: excavation; pavement and rigid base removal; saw-cutting, concrete drive, curb and walk removal; backfill; compaction; bedding; pipe materials; fittings; maintenance of trenches; temporary pavement; connections to existing water mains; and related Work and materials such as blow offs to perform disinfection, flushing, performing pressure and bacteriological tests as shown on the Drawings and specified in conformance with relevant Sections of the Specifications.
- C. These Items shall also include all Work under the Contract unless specifically included for payment under other Items.
- D. Connections of new water lines to existing water lines shall be included under these Items, unless specifically included under other items. Temporary supporting of existing utilities, locating of existing utilities, exploratory excavation and backfill required. Items, include cutting and removal of existing main to furnish and install all fittings (couplings, tee), and piping to complete the connection.
- E. These Items shall include all water main fittings, accessories and appurtenances not included in other pay items. Fittings, including those not shown on the plans required to avoid existing utilities shall be included under these Items.
- F. All Work necessary to abandon designated existing water lines is included under these Items.
- G. All repairs of existing utilities damaged, as a result of construction, are included under these Items.

7.02 WORK NOT INCLUDED

- A. Pavement replacement within the Contract limits is included under other Items.
- B. Valves, inserting valves, valve manhole structures are included under other items.
- C. Hydrant assemblies including associated 6-inch water main piping are included under other items.
- D. The abandonment of existing valves and removal of existing fire hydrants are included under other Items.
- E. All Work necessary to reconnect existing water services are included for payment under other Items.
- F. Restoration of landscape surface improvements including seeding, mulching, and fertilizing all disturbed lawn areas shall be included under these Items, unless specifically included under other items.

7.03 DEFINITION OF ITEMS

- A. Item 7a – Includes 6-inch Watermain, Open Cut, PVC / DIP.
- B. Item 7b – Includes 8-inch Watermain, Open Cut, PVC / DIP
- C. Item 7c – Includes 12-inch Watermain, Open Cut, PVC / DIP

- D. Item 7d – Includes 12-inch watermain, HDPE, DR11, DI, HDD
- E. Item 7e – Includes 6-inch Insertion Tee
- F. Item 7f – Includes 8-inch Insertion Tee
- G. Item 7g – Includes Water Main Connection at Robinhood

7.04 MEASUREMENT

- A. The quantities to be paid for under Items 7a through 7d shall be the horizontal length of pipe measured parallel to the axis of the line along the surface of the ground.
- B. The quantities to be paid under Items 7e and 7f shall be full compensation for each item installed in accordance with the Specifications and Drawings.
- C. The quantity to be paid under Item 7g shall be lump sum for the item installed in accordance with the Specifications and Drawings.

7.05 PAYMENT

- A. The unit price stated in the Bid for Items 7a through 7d shall be full compensation for each linear foot, furnished and installed as specified so measured.
- B. The unit price stated in the Bid for Items 7e & 7f shall be full compensation for each item, so measured, as specified, and required.
- C. The unit price stated in the Bid for Item 7g shall be full compensation for the lump sum of water main connection in accordance with the Specifications and Drawings.

**ITEM 8
VALVES**

8.01 DESCRIPTION

- A. Under these Items, the Contractor shall furnish and perform all Work necessary for the installation of the valves and accessories as shown on the Drawings and specified in conformance with relevant Sections of the Specifications.
- B. These Items shall include all Work to install or remove the valves, including but not limited to the following: excavation; pavement removal; saw-cutting; concrete drive, curb and walk removal; removal and replacement of fences including fabric and posts; hauling excess spoil material from Site; backfill; compaction; bedding; pipe materials; fittings and pipe connections; construction, maintenance and removal of temporary access to the Work area; and related Work such as performing material testing.
- C. Inserting valves (cutting-in-valves) shall be included under these Items.

8.02 WORK NOT INCLUDED

- A. Pavement replacement within Contract limits is included for payment under other Items.

B. 6-inch gate valves associated with fire hydrant assemblies are included under Hydrant Item.

8.03 DEFINITION OF ITEMS

- A. Item 8a – Includes 6-Inch Insertion Valve.
- B. Item 8b – Includes 8-Inch Insertion Valve
- C. Item 8c – Includes 6-inch Gate Valve.
- D. Item 8d – Includes 8-inch Gate Valve
- E. Item 8e – Includes 12-inch Gate Valve.
- F. Item 8f – Includes Valve Removal of Existing Valve

8.04 MEASUREMENT

A. The quantities to be paid under Items 8a through 8f shall be full compensation for each valve and box or manhole provided in accordance with the Specifications and Drawings.

8.05 PAYMENT

- A. The unit price stated in the Bid for Items 8a through 8e shall be full compensation for each valve and box as specified and required.
- B. The unit price stated in the Bid for Item 8f shall be full compensation for each existing valve removed so measured, as specified and required.

ITEM 9 HYDRANT ASSEMBLIES

9.01 DESCRIPTION

- A. Under these Items, the Contractor shall furnish and perform all Work necessary for the installation of the fire hydrant assemblies, shown on the Drawings and specified, in conformance with relevant sections of the Specifications.
- B. These Items shall include all Work to install the fire hydrant assemblies, including but not limited to the following: excavation; pavement removal; saw-cutting; concrete drive, curb and walk removal; removal and replacement of fences including fabric and posts; hauling excess spoil material from Site; backfill; compaction; bedding; pipe materials; fittings; connections to water lines; construction, maintenance and removal of temporary access to the Work area; and related Work such as performing material testing.
- C. The removal and salvaging of existing fire hydrants for the owner shall be included under these Items. Hydrant valves to be removed shall be included under these Items.

9.02 WORK NOT INCLUDED

- A. Pavement replacement within Contract limits is included for payment under other Items.

9.03 DEFINITION OF ITEMS

- A. Item 9a – Includes Hydrant Assembly.
- B. Item 9b – Includes Hydrant Removed.

9.04 MEASUREMENT

- A. The quantity to be paid under Items shall be the measured quantity of each fire hydrant assembly completed or removed as specified, shown on the drawings and so measured.

9.05 PAYMENT

- B. The unit price stated in the Bid for Item 9a shall be full compensation for each hydrant assembly so measured, as specified and required.
- C. The unit price stated in the Bid for Item 9b shall be full compensation for each hydrant removed so measured, as specified and required.

**ITEM 10
WATER SERVICES**

10.01 DESCRIPTION

- A. Under these Items, the Contractor shall perform all work necessary for the installation of the water services and meters. The Contractor shall furnish and perform all work necessary for the installation of the meter pits shown on the Drawings and specified, in conformance with relevant sections of the Specifications.
- B. These Items shall include all Work to install the water services and meter pits, including but not limited to the following: excavation; pavement removal; saw-cutting; concrete drive, curb and walk removal; removal and replacement of fences including fabric and posts; hauling excess spoil material from site; backfill; compaction; bedding; pipe materials; fittings; connections to existing sewers; construction, maintenance and removal of temporary access to the Work area; and related Work such as performing material testing.
- C. The removal of existing water services, including existing fittings, valves, structures and other associated appurtenances shall be included under these items.
- D. All repair of existing utilities damaged during water service construction is included under these Items.
- E. Connections of new water services to existing water services as shown on the Drawings are included under these Items. This shall include connections of new water services to new water meter pits.
- F. The installation of meter pits shall be included under this item.

- G. Reinstatement of existing water services onto the new water line shall be included under these Items.
- H. Restoration of landscape surface improvements including seeding, mulching, and fertilizing all disturbed lawn areas shall be included under these Items.
- I. These Items shall include all water service fittings, accessories and appurtenances not included in other pay items. Fittings, including those not shown on the plans required to avoid existing utilities shall be included under these Items.
- J. The excavation and backfill of bore and receiving pits for trenchless water service construction is included under these items.

10.02 WORK NOT INCLUDED

- A. Pavement replacement within Contract limits is included for payment under other Items.
- B. Repairing of water services which were damage and not planned to be replaced, by Contractor as a result of the construction, will be at the Contractor's expense.

10.03 DEFINITION OF ITEMS

- A. Item 10a – Includes. Service Tubing, 3/4-inch, Open Cut
- B. Item 10b – Includes Service Tubing, 1-inch, Bored
- C. Item 10c – Includes Service Tubing, 1-inch, Open Cut
- D. Item 10d – Includes $\frac{3}{4}$ -inch Lead Service Line Replacement (Undistributed)
- E. Item 10e – Includes Water Service Connection, 1-inch
- F. Item 10f – Includes $\frac{3}{4}$ -inch Water Meter. Install only
- G. Item 10g – Includes 1-inch Water Meter, Install only
- H. Item 10h – Includes Single Water Meter Pit
- I. Item 10i – Includes Dual Water Meter Pit

10.04 MEASUREMENT

- A. The quantities to be paid for under Items 10a through 10c shall be the horizontal length of pipe measured parallel to the axis of the line along the surface of the ground, with no deduction for laying length of fittings and valves. Vertical portions of the water service shall not be measured for payment.
- B. Item 10d shall be lump sum allowance for any lead service lines that need replaced with $\frac{3}{4}$ -inch service tubing from meter pit to the building furnished and installed in accordance with the Specifications and Drawings.
- C. The quantities to be paid under Item 10e through 10i shall be each water service connection (1-inch or smaller); meter or meter pit installed in accordance with the Specifications and Drawings.

10.05 PAYMENT

- A. The unit price stated in the Bid for Items 10a through 10d shall be full compensation for each linear foot of service tubing, so measured, as specified and required.
- B. The unit price stated in the Bid for Item 10e through 10i shall be full compensation for each water service connection or meter pit, so measured, as specified and required.

ITEM 11 (DELETED ITEMS)
~~METER SOFTWARE / AMR & AMI~~

11.01 DESCRIPTION

- A. Under these Items, the Contractor shall furnish and perform all Work necessary for the installation, AMI (Advanced Metering Infrastructure), shown on the Drawings and specified, in conformance with relevant sections of the Specifications.
- B. Meter reading software to included
- C. AMR (Automated Meter Reading) to include:
 1. Carrying case with 2 converts, 2 whip antennas, 2 wall charges, 2 micro-USB cables
 2. USB Optical Reader
 3. Manager Software
 4. AMR system rollout
 5. AMR Hosting fee annual fee (1 year)
- D. AMI (Advanced Metering Infrastructure) to include:
 1. Collector install
 2. AMI system rollout
 3. AMI hosting fee
 4. AMI manager annual fee (1 year)

11.02 WORK NOT INCLUDED

- A. New water meter pits shall be provided under other items.

11.03 DEFINITION OF ITEMS

- A. Item 11a - Includes Automated Meter Reading Equipment
- B. Item 11b - Includes Advanced Metering Infrastructure Equipment

11.04 MEASUREMENT

- A. The quantities to be paid under Item 11 shall be lump sum to be furnished and installed in accordance with the Specifications and Drawings.

11.05 PAYMENT

- A. The unit price stated in the Bid for Item 11 shall be full compensation for each item, so measured, as specified and required.

**ITEM 12
SPECIAL BACKFILL MATERIAL**

12.02 DESCRIPTION

- A. Under this Item, the Contractor shall furnish and install special backfill material as shown on the Drawings, specified or ordered.
- B. Material shall be furnished, placed, and mechanically compacted in 6-inch lifts where shown on the Drawings, specified, or ordered.

12.03 WORK NOT INCLUDED

- A. Granular pipe bedding material used for pipe bedding is included under other Items.

12.04 DEFINITION OF ITEM

- A. Item 12 – Includes Special Backfill Material

12.05 MEASUREMENT

- A. The quantities to be measured for payment under this Item shall be the aggregate volume of compacted material used within the following prescribed limits:
- B. Pipe Trench
 - 1. Depth – One foot above the Pipe to the bottom of the aggregate base for pavement. When in the zone of influence of the road it shall be in accordance with the zone of influence detail on the Drawings.
 - 2. Width - The width shall be the measured width of the trench but shall not exceed the nominal diameter of the pipe, plus one foot on each side. No additional compensation shall be allowed when the Contractors equipment, techniques or means and methods. No additional width will be allowed for precast manholes construction.
 - 3. Length - The quantities to be paid shall be the horizontal length of trench measured parallel to the axis of the line along the surface of the ground, with no deductions for manholes.
- C. All Other installation, including but not limited to, filling areas of over excavation and as shown on the drawings, shall be the actual quantities measured in the field, as installed, which do not exceed the limits shown on the drawings. Delivery tickets shall not be utilized for determining the quantity.

12.06 PAYMENT

- A. The unit price stated in the Bid for Item 12 shall be full compensation for each cubic yard of special backfill material furnished and placed as specified, so measured.

**ITEM 13
PAVEMENT**

13.01 DESCRIPTION

- A. Under these Items, the Contractor shall construct pavement base and surface courses to replace pavement removed for pipeline construction as scheduled, shown on the Drawings and specified herein.
- B. No additional payment will be made for the following:
 1. Aggregate is used for adjusting roadway shoulders and driveways to match new roadway surfaces.

13.02 WORK NOT INCLUDED

- A. Pavement replacement required beyond specified pay limits for construction of manholes and chambers is included for payment under other Items.

13.03 DEFINITION OF ITEMS

- A. Item 13a – Includes 12-Inch, #8 Aggregate Base
- B. Item 13b – Includes 8-Inch, #53 Aggregate Drive
- C. Item 13c – Includes 3-Inch Asphalt Cement Base
- D. Item 13d – Includes 1-1/2-inch Asphalt Cement Surface

13.04 MEASUREMENT

- A. Quantities to be paid for under these Items shall be the actual quantity constructed, measured in place within the limits as defined below, and/or scheduled on the Drawings, unless otherwise authorized by the Engineer; in which case, measurement will be made to the authorized limits. When uniform courses are specified, the volume to be paid for shall not exceed the quantity calculated from plan lines and dimensions. Bituminous materials will be measured in gallons at 60 degrees F applied at the specified rates and within the pay limits.
- B. Pay Limits:
 1. Depth - As specified, scheduled, or ordered.
 2. Length - The actual length ordered.
 3. Width:
 - a. Except as otherwise scheduled on the Drawings, the width of replacement over pipe trenches shall not exceed the nominal diameter of the pipe plus 2-1/2 feet on each side for trench depths 16 feet and less and 4 feet on each side for trench depths greater than 16 feet. No additional width will be allowed for precast manholes or manhole chamber construction.
 - b. Trench depth as used herein shall mean the distance from the original surface of the pavement to the invert grade of the main line pipe.

4. Asphalt Tonnage equals:

$$\frac{\text{Thickness (inches)} * 110 (\#-yd/in) * \text{Area (square yard)}}{2000 (\#-cy/ton-cy)}$$

13.05 PAYMENT

- A. The unit prices stated in the Bid for Items 13a & 13b shall be full compensation for each square yard of aggregate placed within the prescribed limits as specified, so measured.
- B. The unit prices stated in the Bid for Item 13c & 13d shall be full compensation for each ton of pavement placed within the prescribed limits as specified, so measured.

**ITEM 14
CONCRETE**

14.01 DESCRIPTION

- A. Under these Items, the Contractor shall construct concrete drives to replace drives removed for pipeline construction as scheduled, shown on the Drawings and specified herein.

14.02 WORK NOT INCLUDED

- A. Concrete surfaces replacement required beyond specified pay limits for construction of pipeline items is included for payment under other Items.
- B. Drives and surfaces damaged or destroyed beyond specified pay limits shall be replaced at the Contractor's expense.

14.03 DEFINITION OF ITEMS

- A. Item 14 – Includes 6-inch Concrete Drive

14.04 MEASUREMENT

- A. Quantities to be paid for under these Items shall be the actual quantity constructed, measured in place within the limits as defined below, and/or scheduled on the Drawings, unless otherwise authorized by the Engineer; in which case, measurement will be made to the authorized limits. When uniform courses are specified, the volume to be paid for shall not exceed the quantity calculated from plan lines and dimensions.

14.05 PAYMENT

- A. The quantities to be paid for under Item 14 shall be the measured quantity in square foot as specifically ordered by the Owner

ITEM 15
CLEARING AND GRUBBING, TREE REMOVAL

15.01 DESCRIPTION

- A. This Item shall include all clearing and grubbing of lands required to complete the Work as specified, shown in the Contract Documents and as directed by the Engineer.
- B. This Work shall include, but not limited to, the complete removal of all vegetation including plants, shrubs, sod, agricultural crop residue, trimming and cutting of trees, removal of tree cuttings and stumps, scalping and the removal and disposal of all debris generated by the clearing and grubbing operation as specified and shown on the Drawings.
- C. Tree removal is for trees with trucks 6-inches diameter or larger at a height of 48-inches, otherwise it is part of cleaning and grubbing.

15.02 WORK NOT INCLUDED

- A. Any Work specifically included under other Bid Items.

15.03 DEFINITION OF ITEM

- A. Item 15a – Includes Clearing and Grubbing
- B. Item 15b – Includes Tree Removal, 6-inches Diameter or Larger

15.04 MEASUREMENT

- A. The quantity stated in each Bid Item 15 shall be full compensation for all Work required under Items 15.

15.05 PAYMENT

- A. The unit prices stated in the Bid for Item 15a shall be lump sum for area cleared as specified, so measured.
- B. The unit prices stated in the Bid for Item 15b shall be full compensation for each item cleared or removed as specified, so measured.

ITEM 16
SEED & MULCH

16.01 DESCRIPTION

- A. Under this Item the Contractor shall furnish and install seed and mulch, This Item includes fertilizing, watering, and grading of the area to receive seed and mulch or planting

16.02 WORK NOT INCLUDED

B. All areas outside of easements and right-of-ways, damaged by the Contractor, shall have seed and mulch installed at the Contractor's expense.

16.03 DEFINITION OF ITEMS

C. Item 16 - Includes Seeding and Mulch

16.04 MEASUREMENT

D. The quantities to be paid under Item 16 shall be the measured quantity in square yards as specifically ordered by the Owner.

16.05 PAYMENT

A. The Item 16 shall be full compensation for each square yard of seed and mulch installed, fertilized, and watered.

ITEM 17 RECORD DOCUMENTS

17.01 DESCRIPTION

A. Under this Item the Contractor shall furnish and perform all work necessary for the submission of the marked-up drawings, service location sheets, and changes to the construction documents, in conformance with relevant sections of the Specifications.

B. This Item shall include all work to provide information as to the actual installation of the proposed water main. Items such as valves, fittings, service connections, tees, manhole locations & inverts, etc. shall be recorded. Additional information shall be provided from excavation, potholing, or exploratory digs locating existing pipelines or obstructions.

C. The Owner & Engineer shall review document each pay request to ensure markups are adequate for final submission. Partial payment can be requested if markups are provided.

17.02 DEFINITION OF ITEMS

A. Item 17 - Includes Record Documentation

17.04 PAYMENT

A. The unit prices stated in the Bid for Item 17 shall be full compensation for each item furnished as specified, so measured.

**868-8305.001
01/2026**

**Addendum 2
Turkey Creek RSD
Fascination PI WM Improvements**

END OF SECTION

**868-8305.001
01/2026**

**Addendum 2
Turkey Creek RSD
Fascination PI WM Improvements**

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**SECTION 02559
WATER METERS & METER PITS**

PART 1 GENERAL

1.01 SCOPE

- A. This Section includes installation of owner provided water meters and Advanced Metering Infrastructure as reading equipment as indicated by these specifications or directed by the Owner.
- B. This Section includes the furnishing and installation of meter pits as indicated by these specifications or directed by the Owner.

1.02 SUBMITTALS

- A. Submittals shall be in accordance with the requirements of Section 01300 and shall include:
 - 1. Shop Drawings for review:
 - a. Manufacturer's assembly drawing and parts list for water meters and required accessories indicating materials of construction and model numbers.
 - b. Manufacturer's recommendations for installation.

1.03 MANUFACTURERS

- A. Water Meters and AMI equipment to be supplied by the Owner.
- B. A single contract will be awarded for water meters, and AMI infrastructure and system maintenance.
- C. To establish a minimum of quality required, the products furnished under this Section shall be one of the following manufacturers: Kamstrup, Metron, Badger, or equal.
- D. Meter pits shall be for outdoor cold climate. The pits shall be of adequate size with double lid covers to prevent freezing. Pit setters shall have inlet angle ball valve and outlet angle cartridge dual check valve. Meter pits shall be equal to Plastic Pitsetters per construction documents.

1.04 QUALITY ASSURANCE

- A. The products specified herein shall comply with the listed ASTM standards and the noted design requirements.

PART 2 PRODUCTS.

2.01 5/8-INCH THROUGH 1-INCH METERS (BY OWNER)

- A. Ultrasonic meters
 - 1. Ultrasonic water meters shall be provided by and installed by the Contractor. The Contractor shall coordinate the startup of water meters with the Owner's staff.
 - 2. Ultrasonic meters shall meet AWWA C-715 size, capacity, meter lengths, accuracy and pressure loss requirements. The meter shall be compliant with ANSI/NSF Standard 61.
 - 3. Meters shall include US PIT external antenna to work with the District's meter reading software.

2.02 METER PIT

- A. Meter pits shall be by Plastic Pitsetter, PDDBH-188-20-60-NL for single meter pits or equal.
- B. Meter pits shall be by Plastic Pitsetter, PDDBH-288-20-60-NL, for double meter pits or equal.
- C. Meter box frames shall be from Ford Meter Box Company, meter box frame (FW3), 11-1/2" Wabash Double Inset lid for 20" tile or equal.
- D. Meter lid shall be by Trumbull Manufacturing, thermoplastic with locking mechanism.
- E. Lid locks shall be provided on each lid. The owner shall be provided with 4 keys to the lids.

2.03 ADVANCED METERING INFRASTRUCTURE (AMI) SYSTEM (BY OWNER)

- A. The AMI system may utilize either:
 - 1. Radio frequency (RF) system with proper FCC licensing if operating on the applicable frequencies to transmit data to and from MIUs to the system. RF systems should include all base stations, repeaters and all infrastructure required to ensure accuracy and read rates per this specification.
 - 2. Cellular - based system to transmit data to and from transceivers to the system to transmit data to and from MIUs to the system.
- B. The AMI system shall consist of
 - 1. Meter Interface Units (MIUs) capable of sending readings for collection every 12 hours at a minimum either to a base station for an RF system or directly to a cellular network with a cellular-based system.
 - 2. Base Station if a RF system is being utilized to collect data from the MIU and send to the District's web-based or SCADATA platform.

3. All additional infrastructure including software, billing integration, customer portal
- C. When deployed as a fixed network, the System shall provide hourly consumption interval data, time-synchronized at the host meter reading software. The host software shall provide individual account consumption interval data displayed in graphical as well as tabular formats, readily accessible to utility Customer Service Representatives to facilitate customer bill complaint resolution without the need for a truck roll.

PART 3 EXECUTION

3.01 INSTALLER REQUIREMENTS

- A. Contractor to implement a call-in program to meter owners and provide door hanger notification tags before meter is to be placed. The Contractor is responsible for providing and hanging the notification tags.

3.02 WARRANTIES

- A. The following includes the warranty period for system components starting at the date of substantial completion.
 1. Ultrasonic Meters:

a. General materials and workmanship -	2 year
b. Housings or Main Case -	10 years
c. Registers	10 years (5 years full/ 5 years prorated)
d. MIUs -	20 years (10 years full/ 10 years prorated)
e. Base Stations	1 year

3.03 REMOVAL

- A. The Contractor shall clean and flush the inlet side of the service line thoroughly before installing the new meter. Make sure that metallic water service plumbing is properly grounded as per local electrical codes.
- B. Coordinate with the District and shut off water supply valves if the shutoff valves in the area inoperable and remove existing shut off valve.

3.04 INSTALLATION

- A. The Contractor shall orient the new meter so that the flow arrow on the body of the meter is aligned with the flow in the plumbing system.
- B. The Contractor shall install water meters inside new meter pits as directed by the District. The installation location will match the existing location. Any required relocations of meters will be performed by the Owner outside of the Work.

- C. After completing installation, the Contractor shall test for leakage and proper meter operation in accordance with the manufacturer's instructions.
- D. For each residence, a photo taken after the new meter has been installed and a photograph taken to show the new meter programmed and operating.

3.05 TRAINING AND SUPPORT (BY OWNER)

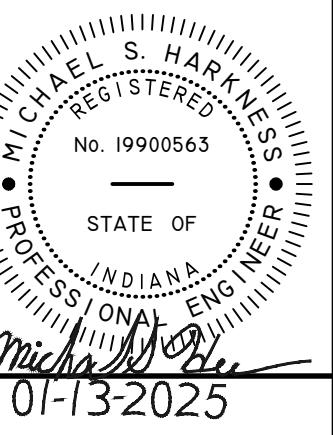
- A. Complete installation and operating instructions will be included for all of the supplied hardware and software equipment. The training must be supplied by the System manufacturer. The vendor will also inform the customer of what pre-installation activities are to be completed and what support material will be needed for the initial installation.
- B. Equipment vendors are required to supply information on required maintenance programs and should offer a five-year maintenance contract. The vendor shall have a customer support department required to help maintain and support the system through the use of the service agreement.

PART 4 SPECIAL PROVISIONS

4.01 WATER METER SCHEDULE

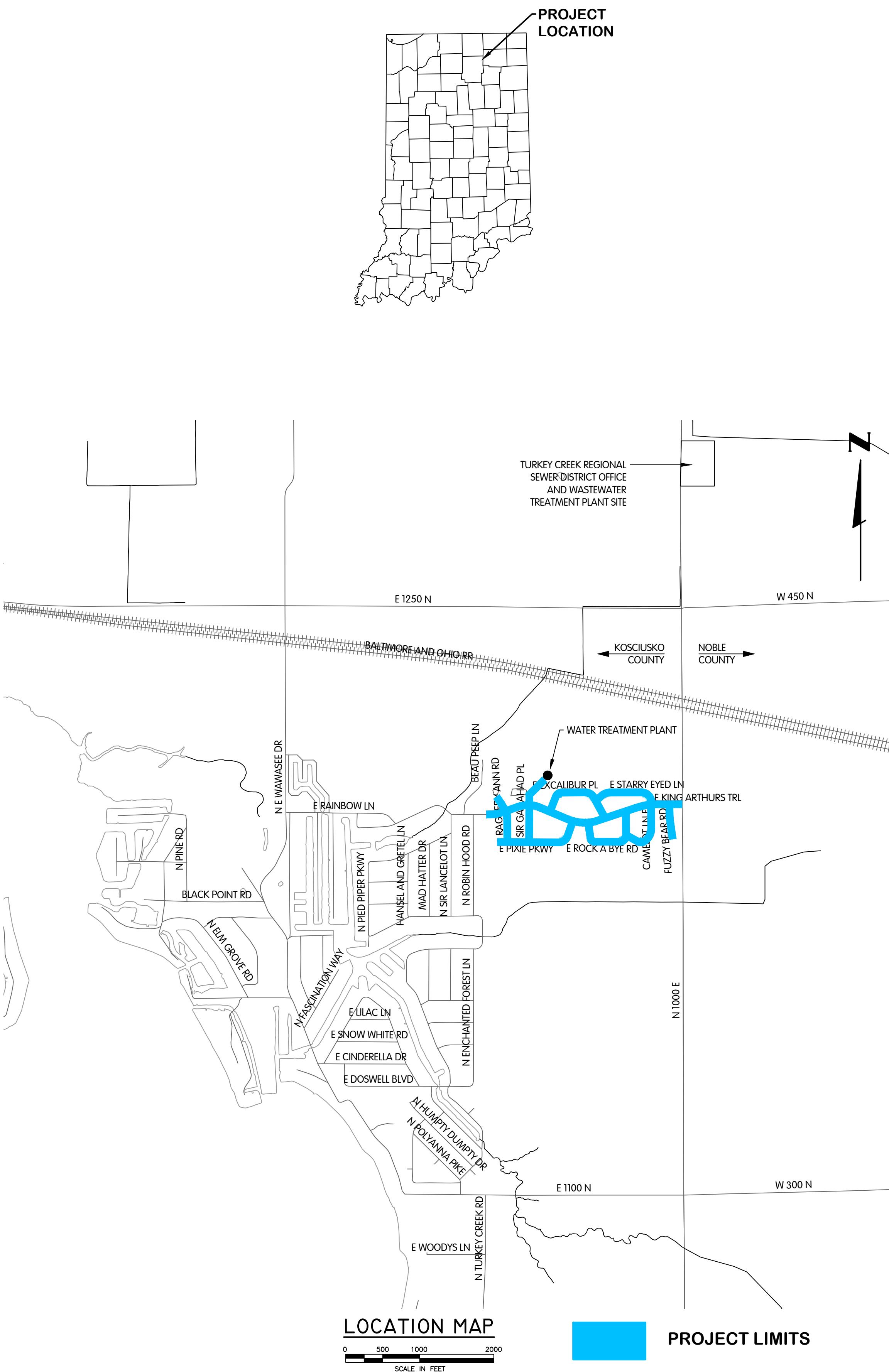
Water Meter	Quantity
¾-inch (Pit)	186
1-inch (Pit)	2

END OF SECTION



TURKEY CREEK REGIONAL SEWER DISTRICT

FASCINATION PLACE WATER MAIN IMPROVEMENTS



2026

MEMBERS OF COUNCIL

PRESIDENT - JAMES BOONE
VICE-PRESIDENT - ROBERT DUMFORD
TREASURER - DON DEWITT

JAMES YOUNG - MEMBERS
DANIEL MIKOŁAJCZAK
BRAD FISHBURN
RICK PALOIN

LEGAL COUNSEL - ANDREW BOXBERGER
SUPERINTENDENT - TIMOTHY WOODWARD

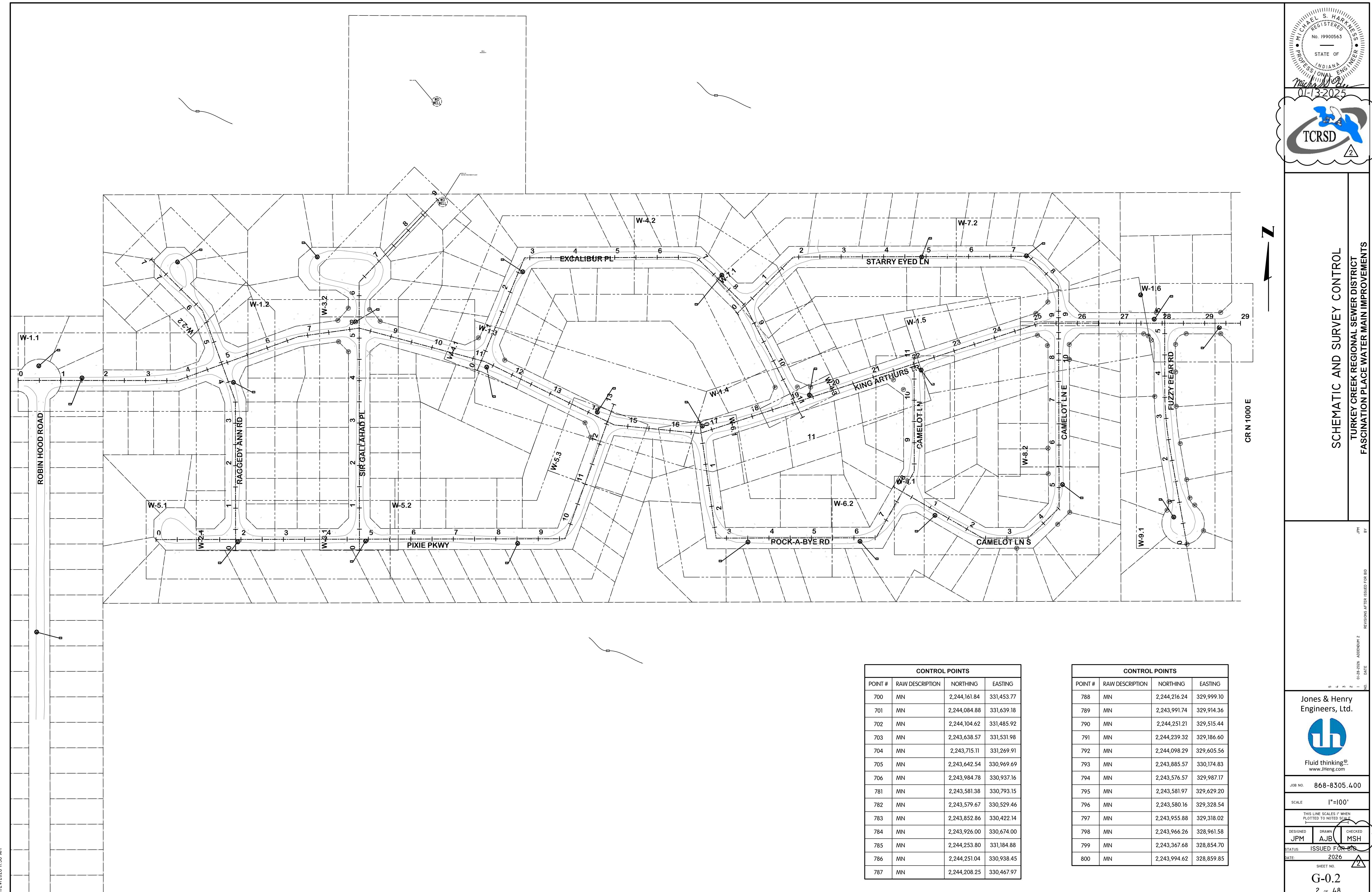
ENGINEER:
JONES & HENRY ENGINEERS, LTD.
2420 N. COLISEUM BLVD.
SUITE 214
FORT WAYNE, INDIANA 46805

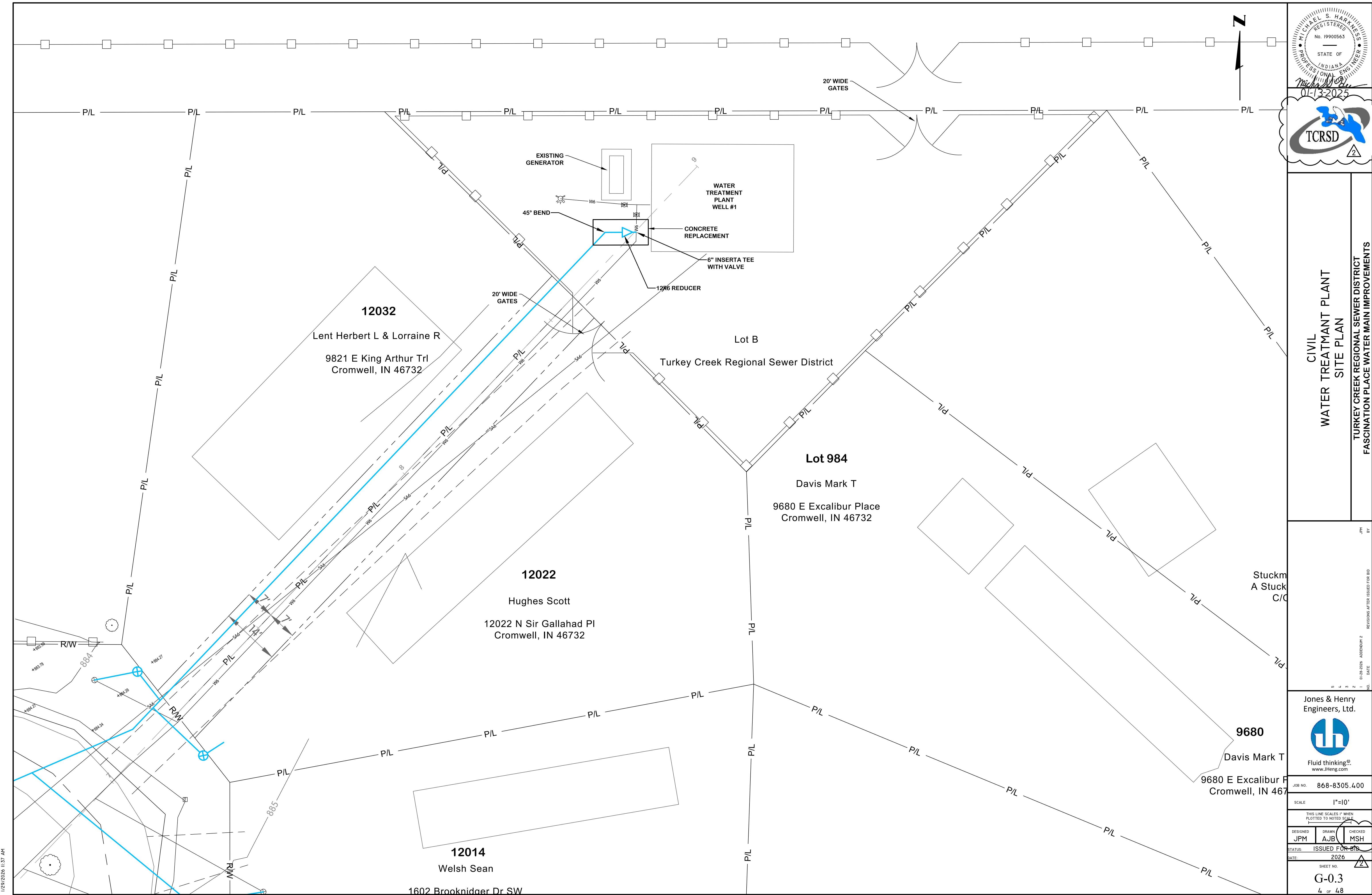
OWNER:
TURKEY CREEK REGIONAL SEWER DISTRICT
4852 N 1200 W
CROMWELL, INDIANA 46732

Indiana 811
Know what's below. 811 before you dig.
JOB NO. 868-8305.400
STATUS ISSUED FOR BID
DATE 2026

Jones & Henry
Engineers, Ltd.

Fluid thinking.
www.JHeng.com

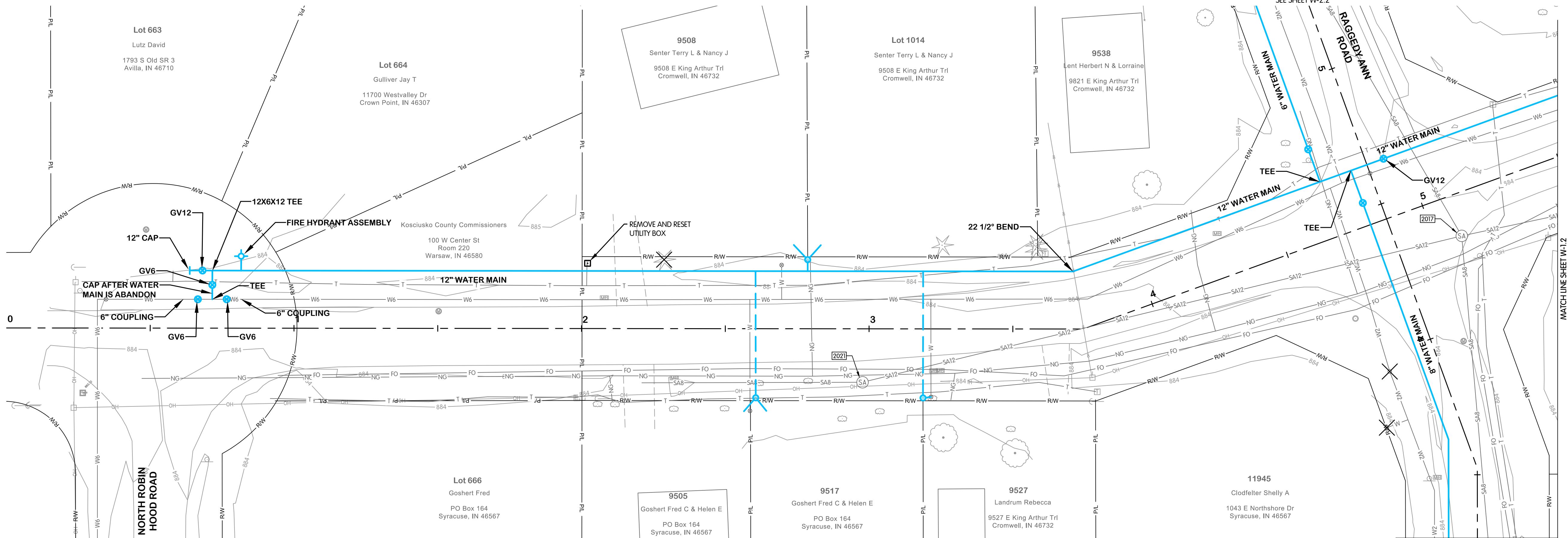




Fascination Place Meter Pits							
Lot #	Address	Street	Meter Pit (each)		Service line (lf)		Notes
			Single	Double	Meter	Open Cut	
897	no address	Camelot Lane			1		9883
898	9883	Camelot Lane	1	1		37	with Lot 897
899	9891	Camelot Lane	1	1		33	
900	9899	Camelot Lane	1	1		36	
901	9913	Camelot Lane	1	1		35	with Lot 902
902	no address	Camelot Lane			1		9913
903	9925	Camelot Lane	1	1		25	
905	11930	Camelot Lane	1	1		35	
908	11954	Camelot Lane	1	1		35	with Lot 909
909	no address	Camelot Lane			1		11954
910	11970	Camelot Lane	1	1		34	9943
911	9943	Camelot Lane			1		11970
912	11977	Camelot Lane	1	1		12	
914	11963	Camelot Lane	1	0	1	9	
915	11947	Camelot Lane	1	1			11939
916	11939	Camelot Lane	0	1	9		11947
917	11912	Camelot Lane	1	1	9		with Lot 918
918	no address	Camelot Lane			1		11912
919	9862	Camelot Lane	1	1		8	
920	9876	Camelot Lane	1	1		15	9868
921	9868	Camelot Lane			1		9876
922	9860	Camelot Lane	1	1		39	
923	9852	Camelot Lane	1	1		42	
933	9859	Camelot Lane	0	1	7		9865
934	9865	Camelot Lane			1		9859
1045	12043	CR N1200 W	1	1		41	
870	9661	Excalibur Place	1	1		28	
872	9687	Excalibur Place	1	1		36	
873	9703	Excalibur Place	1	1		33	
874	9715	Excalibur Place	1	1		33	
875	9737	Excalibur Place	1	1		30	9747
877	9747	Excalibur Place			1		9737
879	9783	Excalibur Place	1	1		7	
882	9799	Excalibur Place	1	1		15	
948	9794	Excalibur Place	0	1	1	33	9788
949	9788	Excalibur Place			1		9794
950	no address	Excalibur Place	1	1		34	
973	9778	Excalibur Place	1	1		13	9768
974	9768	Excalibur Place			1		9778
975	9760	Excalibur Place	1	1		11	
976	9752	Excalibur Place	1	1		6	
977	9732	Excalibur Place	1	1		7	
979	9688	Excalibur Place	1	1		6	
983	no address	Excalibur Place	1	1		8	9680
984	9680	Excalibur Place			1		with Lot 983
985	9676	Excalibur Place	1	1		8	7972
986	9672	Excalibur Place			1		9776
987	9656	Excalibur Place	1	1		8	
1049	11975	Fuzzy Bear	1	1		12	
1050	11945	Fuzzy Bear	1	1		11	
1051	11935	Fuzzy Bear	1	1		8	
1052	11911	Fuzzy Bear	1	1		31	
1053	11901	Fuzzy Bear	1	1		18	
1054	no address	Fuzzy Bear	1	1		16	
1055	11914	Fuzzy Bear	1	0	1		61

L:\TurkeyCreek.868\J8305\300_400\Estimating\20260130 meter only TC Water Est WM FP-2.xlsx

Fascination Place Meter Pits							
Lot #	Address	Street	Meter Pit (each)		Service line (lf)		Notes
			Single	Double	Meter	Open Cut	
1056	11932	Fuzzy Bear	1		1		9883
801	9505	King Arthur's Trail			1	0	42
802	9517	King Arthur's Trail			1	0	9505
803	9527	King Arthur's Trail	1			42	
836	9705	King Arthur's Trail	1		1	6	
861	9581	King Arthur's Trail	1		1	41	
863	9597	King Arthur's Trail	1	0	1	7	
864	9629	King Arthur's Trail	1		1	41	
865	no address	King Arthur's Trail	1		1	39	no address
866	no address	King Arthur's Trail			1		no address
867	9671	King Arthur's Trail	1		1	35	9671
869	no address	King Arthur's Trail	1		1	36	no address
883	9753	King Arthur's Trail	0	1			9725 Pixie W
913	no address	King Arthur's Trail	1		1	36	
924	9893	King Arthur's Trail	0	1			9852
925	9893	King Arthur's Trail	1		1	38	
927	9892	King Arthur's Trail	1		1	3	
928	9872	King Arthur's Trail	1	0	1	4	
929	9862	King Arthur's Trail	1	1		4	9848
930	9848	King Arthur's Trail			1		9829
931	9838	King Arthur's Trail	1		1	4	
932	9847	King Arthur's Trail	1		1	10	
942	9787	King Arthur's Trail	1		1	25	
943	no address	King Arthur's Trail	1		1	25	empty lot
944	9821	King Arthur's Trail	1		1	26	9833
946	9833	King Arthur's Trail			1		9821
947	9822	King Arthur's Trail	1	0	1	36	
1000	9598	King Arthur's Trail	1	1		3	
1013	9538	King Arthur's Trail			1		with Lot 835
1014	no address	King Arthur's Trail	1	1		0	9508
1015	9508	King Arthur's Trail	0	1	3		with Lot 1014
1046	9996	King Arthur's Trail			1		9996
1047	9980	King Arthur's Trail	1	1		35	9980
1057	11949	N 1000 E	1			31	
1058	11967	N 1000 E	1			33	
807	9546	Pixie Parkway	1	1	0	42	
808	9530	Pixie Parkway	1	1	0	55	
810	9523	Pixie Parkway	1	1		10	
812	9521	Pixie Parkway	1	1		27	9519
813	9519	Pixie Parkway			1		9521
814	no address	Pixie Parkway	1		1	29	
816	9551	Pixie Parkway	1	1		30	with Lot 817
817	no address	Pixie Parkway	0	1			9551
818	9581	Pixie Parkway	1	1		29	with Lot 819
819	no address	Pixie Parkway			1		9581
820	9601	Pixie Parkway	1	1		25	9611
821	9611	Pixie Parkway	0	1			9601
822	9621	Pixie Parkway	1	1		25	9631
823	9631	Pixie Parkway	0	1			9621
824	no address	Pixie Parkway	1	1		24	9651
825	9651	Pixie Parkway	0	1			with Lot 824
826	9661	Pixie Parkway	1	1		25	9671
827	9671	Pixie Parkway	0	1			9661
828	9681	Pixie Parkway	1	1		34	969



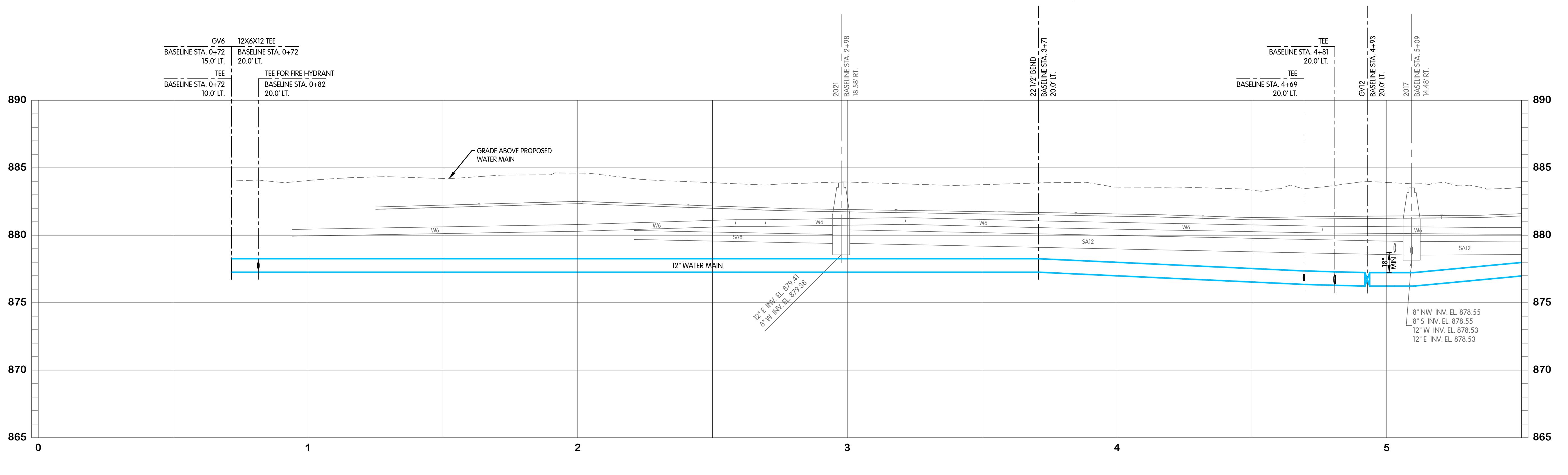
KING ARTHUR TRAIL

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EXISTING STRUCTURE DATA		
NAME	TYPE	DATA
2017	SANITARY MANHOLE	CASTING EL. 883.51 8" NW INV. EL. 878.55 12" W INV. EL. 878.53 8" S INV. EL. 878.55 12" E INV. EL. 878.53
2021	SANITARY MANHOLE	CASTING EL. 883.88 12" E INV. EL. 879.41 8" W INV. EL. 879.38

ROBINHOOD WATER MAIN CONNECTION DETAIL
SAW CUT EXISTING 6" PIPE, INSERT PVC PIPE, WITH TEE,
REDUCER, 2- COUPLERS & 2- 6" VALVES, AND BEDDING
ALL OTHER ITEMS TO BE PAID UNDER OTHER ITEMS.



**KING ARTHUR TRAIL
WATER
PLAN AND PROFILE
STA. 0+00 TO 5+50**

JURKE, CLEVELAND, SEVER, BURK, CASCINATION PLACE WATER MAIN IMPROVEMENTS

Jones & Henry Engineers, Ltd.



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www.JHeng.com

NO. 868-8505.400

THIS LINE SCALES 1" WHEN
PLOTTED TO NOTED SCALE

GNED DRAWN CHECKED
PM AJB MSH

ISSUED FOR BID
2026

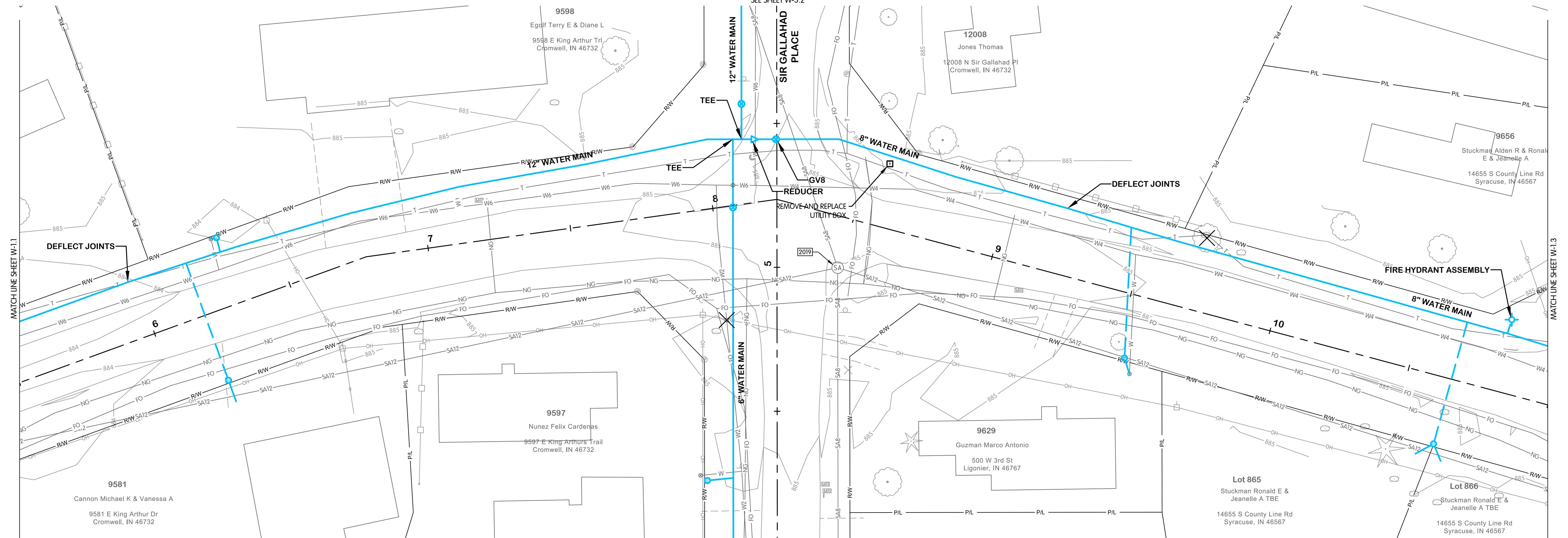
SHEET NO. 

6 OF 48



**KING ARTHUR TRAIL
WATER
PLAN AND PROFILE
STA. 5+50 TO 11+00**

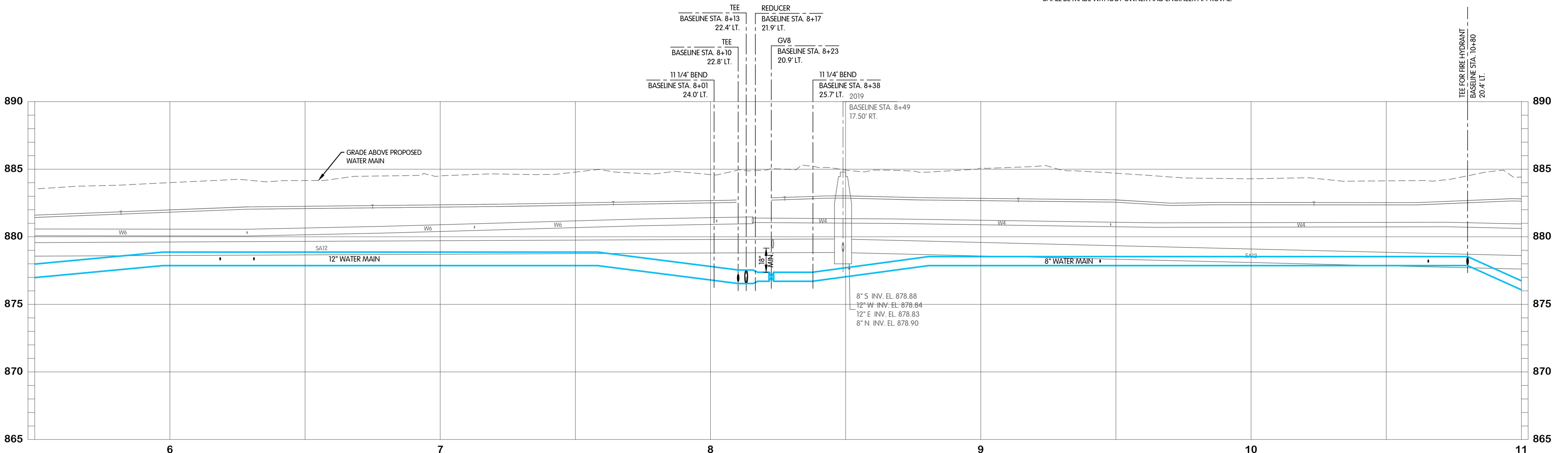
TURKEY CREEK REGIONAL SEWER DISTRICT
FASCINATION PLACE WATER MAIN IMPROVEMENTS



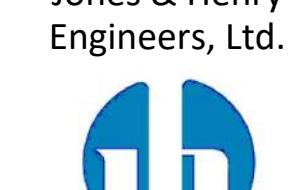
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KING ARTHUR TRAIL



FTW-830540W-M-1.2 KING ARTHUR STA. 5+50 TO 11+00
1/29/2025 11:57 AM - ABLAISING
REVISIONS AFTER ISSUED FOR BID
BY: JPM DATE: 01-28-2026 DODNOM: 2
THIS LINE SCALES 1" WHEN PLOTTED TO NOTE SCALE
DESIGNED DRAWN CHECKED
JPM AJB MSH
STATUS ISSUED FOR BID
DATE 2026
SHEET NO. W-1.2
7 of 48



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JOB NO. 868-8305.400

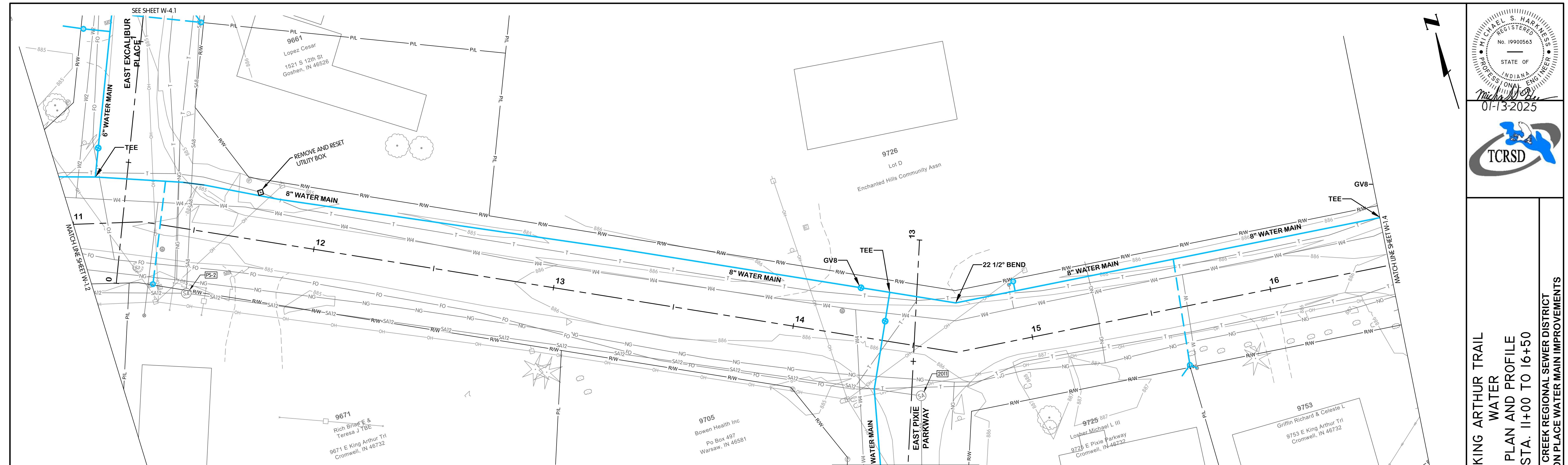
SCALE 1"=20' HOR.
1"=4' VERT.

THIS LINE SCALES 1" WHEN PLOTTED TO NOTE SCALE

DESIGNED DRAWN CHECKED
JPM AJB MSH

STATUS ISSUED FOR BID
DATE 2026

SHEET NO. W-1.2
7 of 48

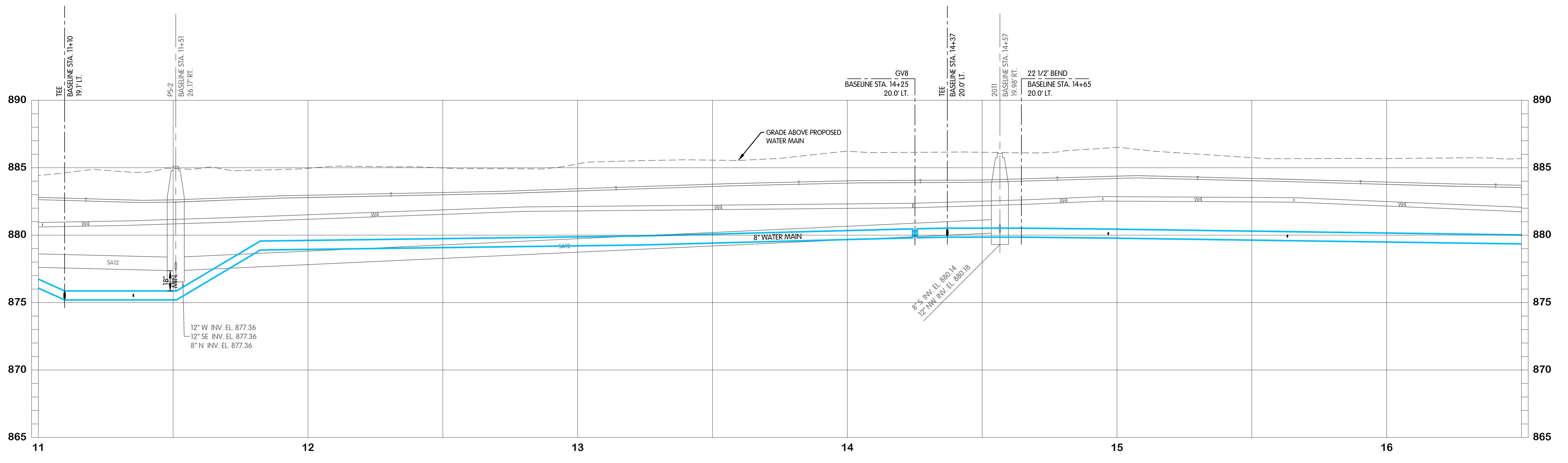


KING ARTHUR TRA

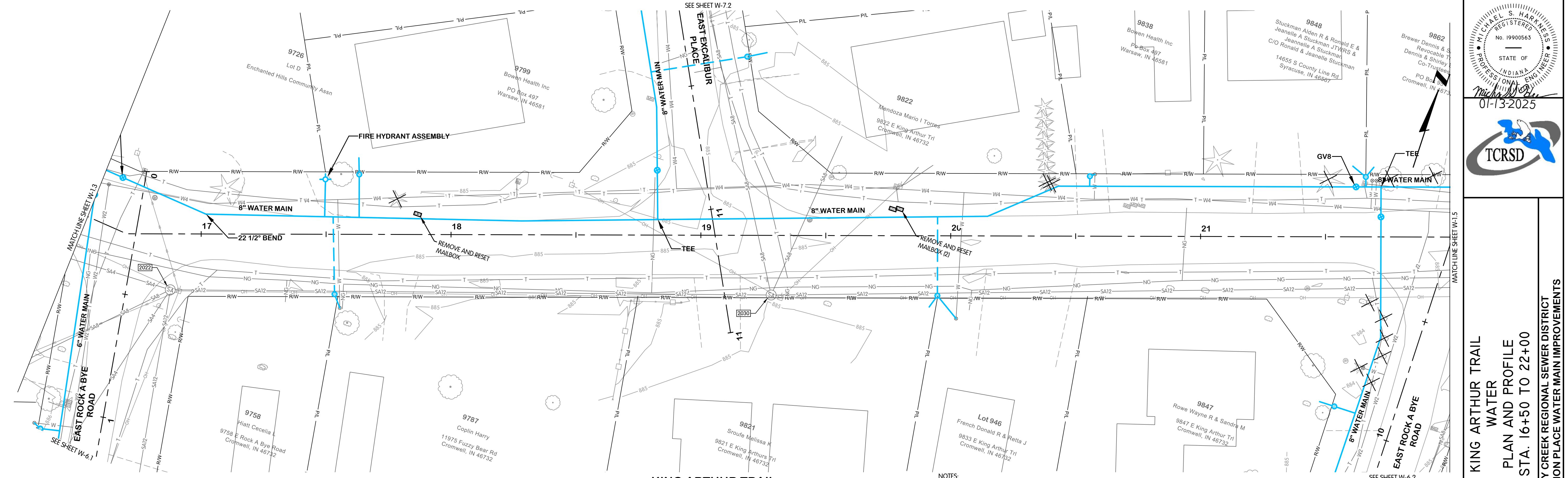
EXISTING STRUCTURE DATA		
NAME	TYPE	DATA
2011	SANITARY MANHOLE	CASTING EL. 886.07 8" S INV. EL. 880.14 12" NW INV. EL. 880.18
PS-2	SANITARY MANHOLE	CASTING EL. 885.12 12" W INV. EL. 877.36 12" SE INV. EL. 877.36 8" N INV. EL. 877.36

NOTES:

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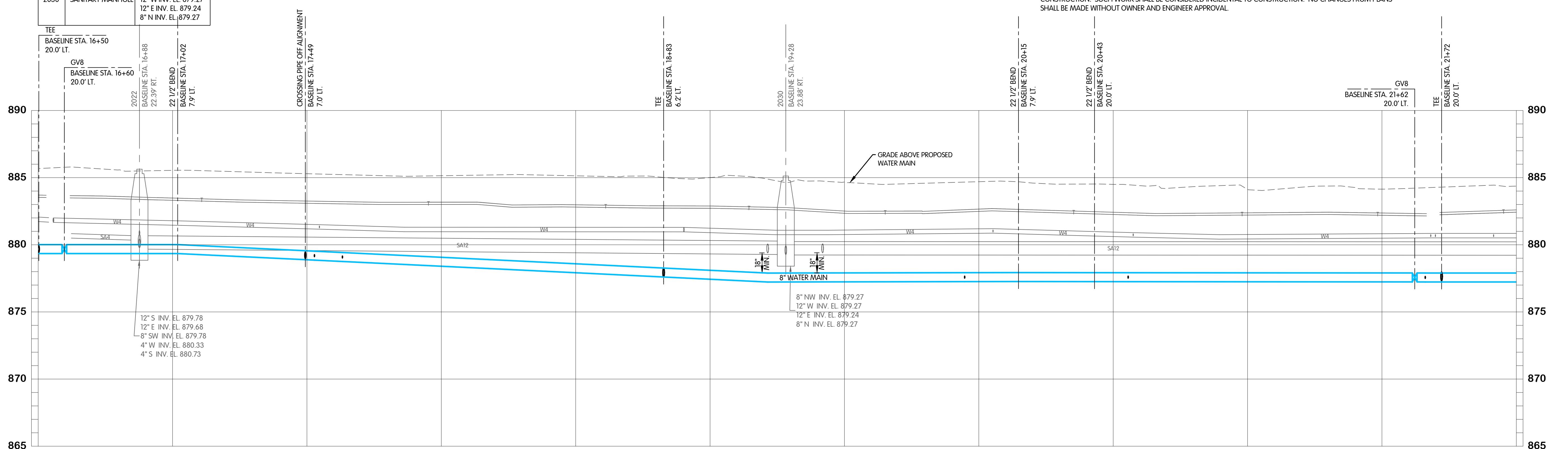


JONES & HENRY ENGINEERS, LTD.		
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868-8305.400		
1"=20' HOR. 1"=4' VERT.		
THIS LINE SCALES 1" WHEN PLOTTED TO NOTED SCALE		
FILED M	DRAWN AJB	CHECKED MSH
ISSUED FOR BID		
2026		
SHEET NO. 2		
W-1.3		
8 OF 48		



KING ARTHUR TRAIL

EXISTING STRUCTURE DATA		
NAME	TYPE	DATA
2022	SANITARY MANHOLE	CASTING EL. 885.63 12' S INV. EL. 879.78 12' E INV. EL. 879.68 8" SW INV. EL. 879.78 4" W INV. EL. 880.33 4" S INV. EL. 880.73
2030	SANITARY MANHOLE	CASTING EL. 885.12 8" NW INV. EL. 879.27 12" W INV. EL. 879.27 12" E INV. EL. 879.24 8" N INV. EL. 879.27



STATE OF
INDIANA
01-13-2025



TCRSD

MATCHLINE SHEET W-15

KING ARTHUR TRAIL
WATER
PLAN AND PROFILE
STA. 16+50 TO 22+00
TURKEY CREEK REGIONAL SEWER DISTRICT

SEE SHEET W-6.2

MATCHLINE SHEET W-15

NOTES:

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REVISED AFTER ISSUED FOR BID

BY

DATE

NO

JHeng

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JOB NO. 868-8305.400

1"=20' HOR.
1"=4' VERT.

THIS LINE SCALES 1" WHEN
PLOTTED TO NOTED SCALE

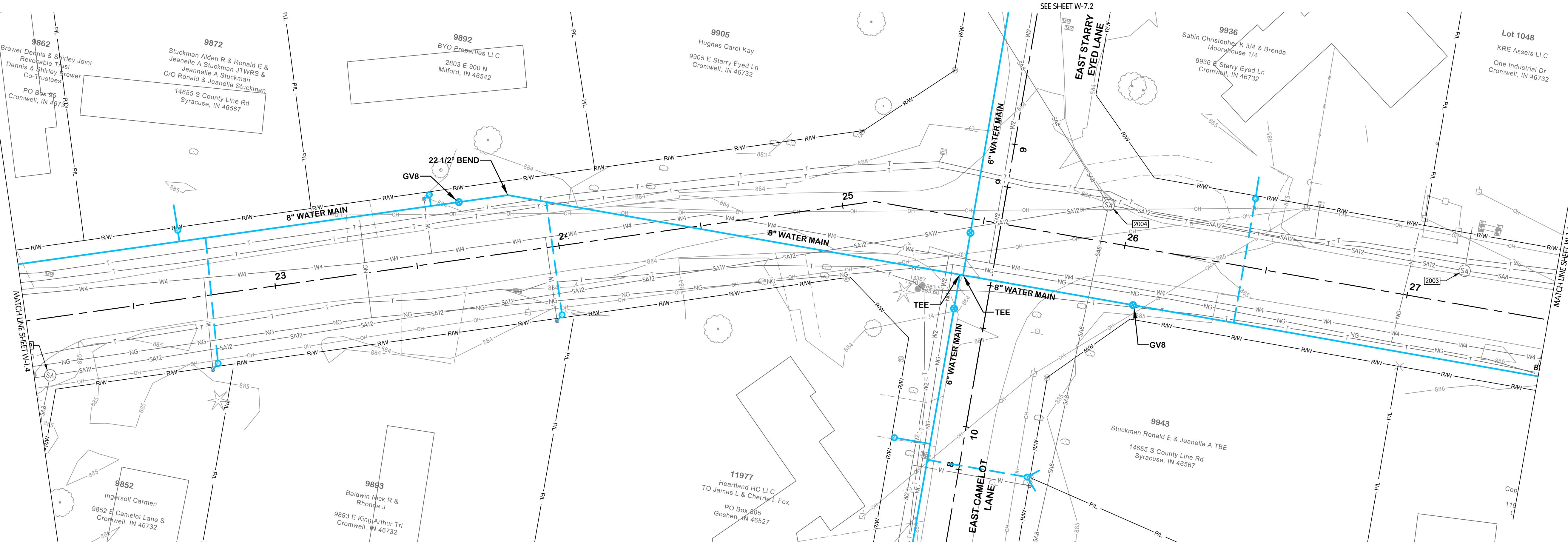
DESIGNED BY JPM DRAWN BY AJB CHECKED BY MSH

STATUS ISSUED FOR BID

DATE 2026

SHEET NO. W-1.4

9 of 48

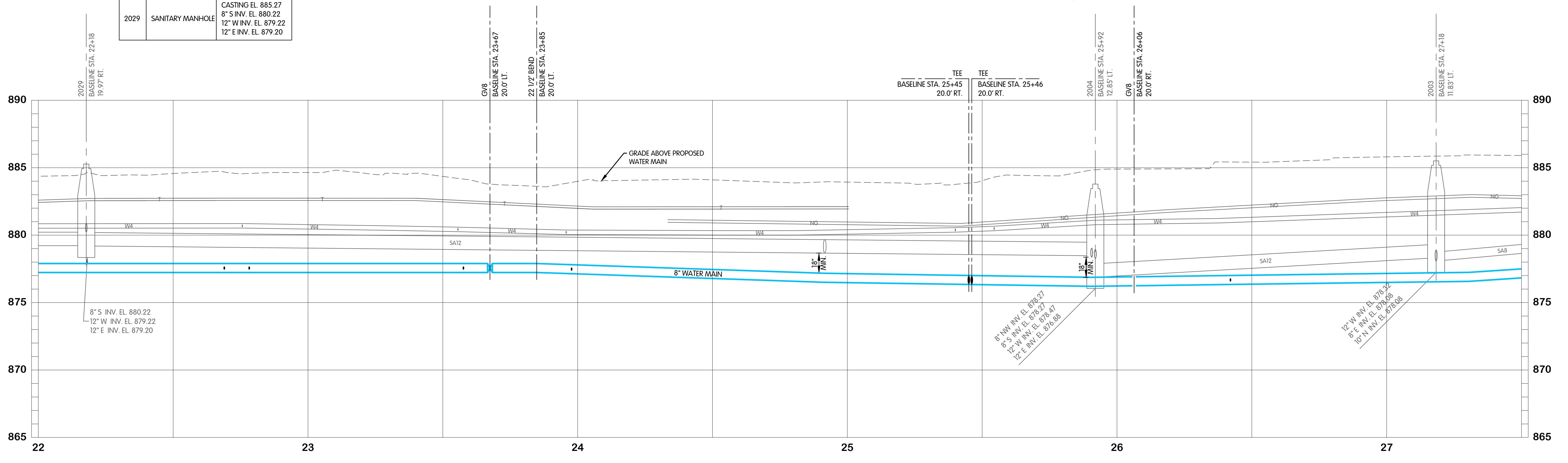


**KING ARTHUR TRAIL
WATER
PLAN AND PROFILE
STA. 22+00 TO 27+50
KEY CREEK REGIONAL SEWER DISTRICT**

JURRIJAN REGIONAL SEWER DISTRICT, FASCINATION PLACE WATER MAIN IMPROVEMENTS

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868-8305.40

1'-0" HGT
1"=4' VERT

DRAWN  CHECKED

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2026

W-1.5
10 0E 48

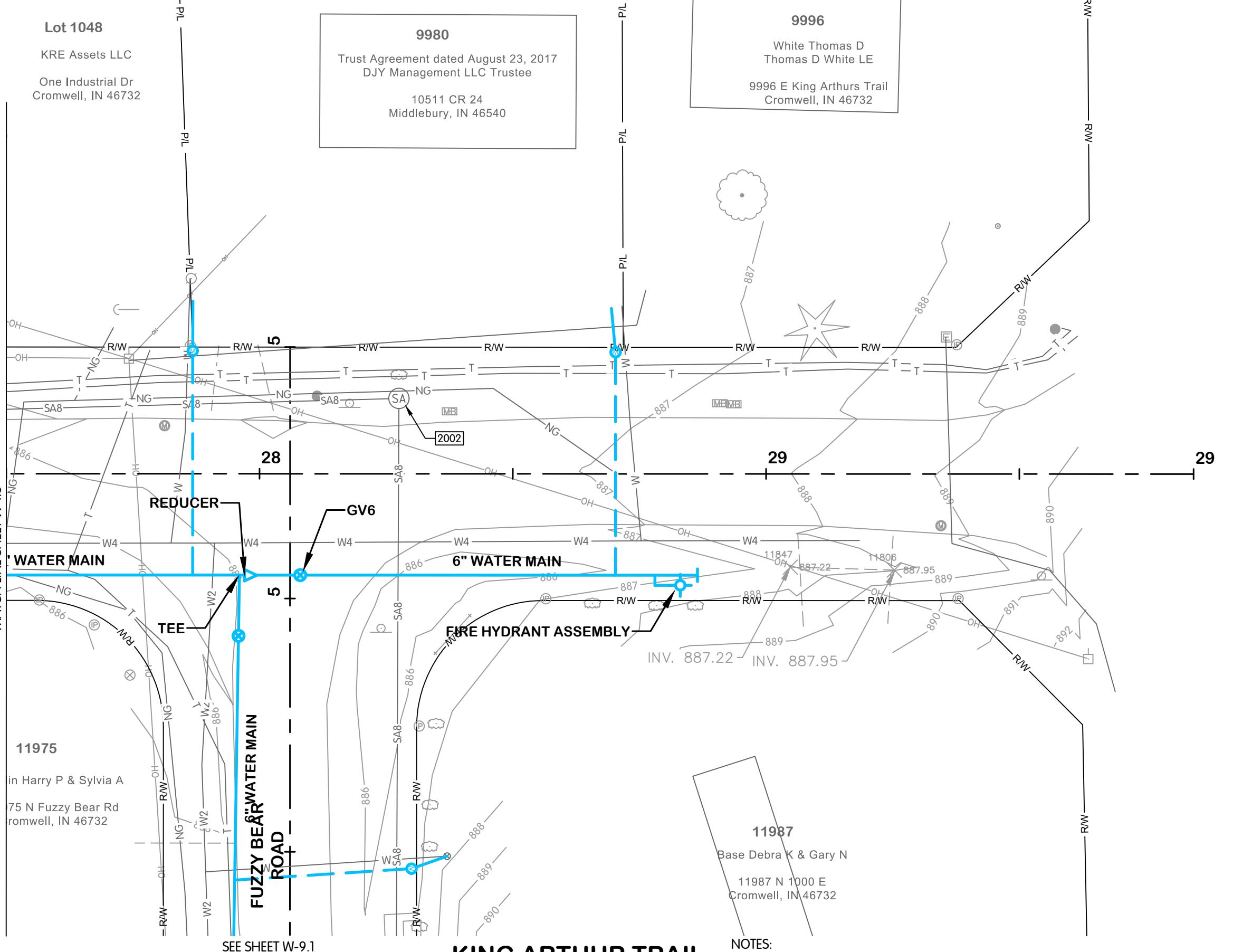
10 of 40

• MICHAEL S. HARKA
REGISTERED
STATE OF
INDIANA
01-13-2025

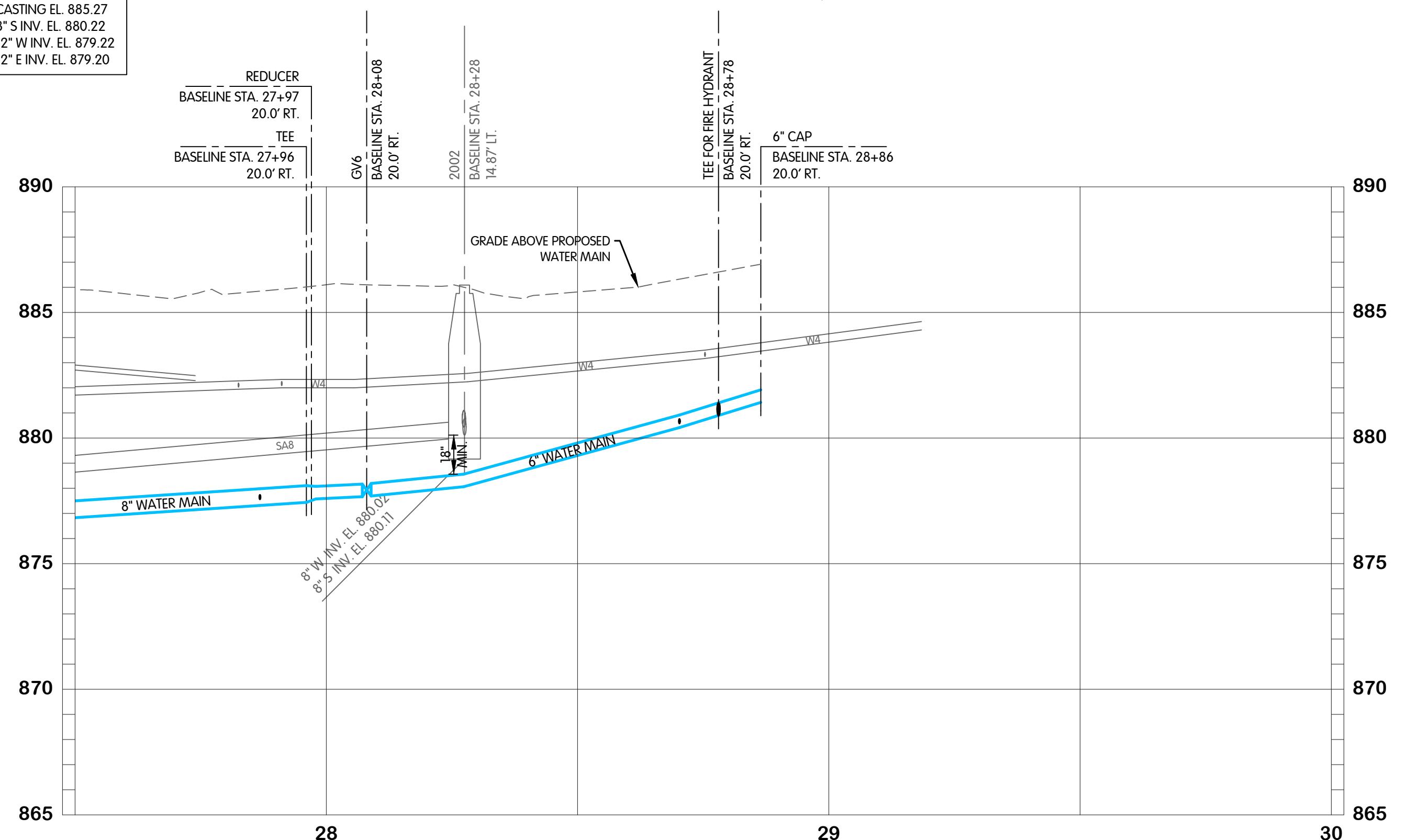


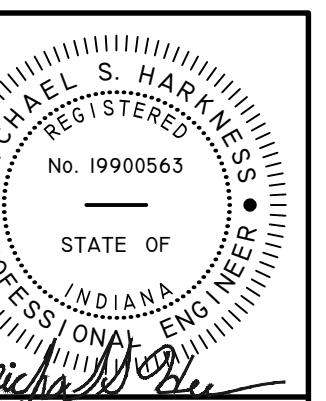
KING ARTHUR TRAIL
WATER
PLAN AND PROFILE
STA. 27+50 TO 30+00

TURKEY CREEK REGIONAL SEWER DISTRICT
FASCINATION PLACE WATER MAIN IMPROVEMENTS



EXISTING STRUCTURE DATA		
NAME	TYPE	DATA
2003	SANITARY MANHOLE	CASTING EL. 885.51 12" W INV. EL. 878.32 8" E INV. EL. 878.08 10" N INV. EL. 878.08
2004	SANITARY MANHOLE	CASTING EL. 883.79 8" NW INV. EL. 878.27 12" W INV. EL. 878.47 12" E INV. EL. 876.88 8" S INV. EL. 878.27
2029	SANITARY MANHOLE	CASTING EL. 885.27 8" S INV. EL. 880.22 12" W INV. EL. 879.22 12" E INV. EL. 879.20





 TCRSD

**RAGGEDY ANN ROAD
WATER
PLAN AND PROFILE
STA. 0+00 TO 5+50**

RAGGEDY ANN ROAD
WATER
PLAN AND PROFILE
STA. 0+00 TO 5+50

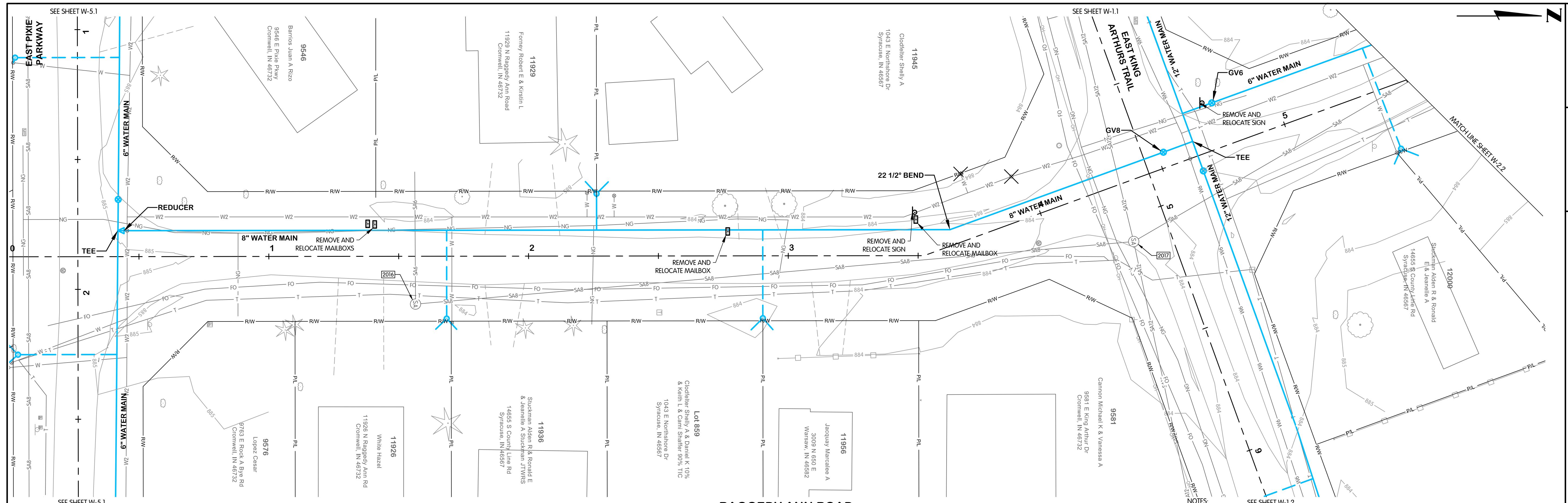
'CREEK REGIONAL SEWER DI

TURKEY CREEK REGIONAL SEWER DISTRICT FASCINATION PLACE WATER MAIN IMPROVEMENTS

2

The logo for Jones & Henry Engineers, Ltd. It features the company name in a serif font above a stylized blue 'JH' monogram. The monogram consists of a blue circle with a white 'J' on the left and a blue 'H' on the right, with a horizontal bar connecting them.

<p style="text-align: center;">Fluid thinking..</p> <p style="text-align: center;">www.JHeng.com</p>		
<p style="text-align: center;">JOB NO. 868-8305.400</p>		
<p>SCALE</p>	<p style="text-align: center;">1"=20' HOR. 1"=4' VERT.</p>	
	<p style="text-align: center;">THIS LINE SCALES 1" WHEN PLOTTED TO NOTED SCALE</p>	
DESIGNED JPM	DRAWN AJB	CHECKED MSH
<p>TATUS: ISSUED FOR BID</p>		
<p>ATE: 2026</p>		
<p>SHEET NO. 2</p>		
<p style="text-align: center;">W-2.1</p>		
<p style="text-align: center;">12 OF 48</p>		

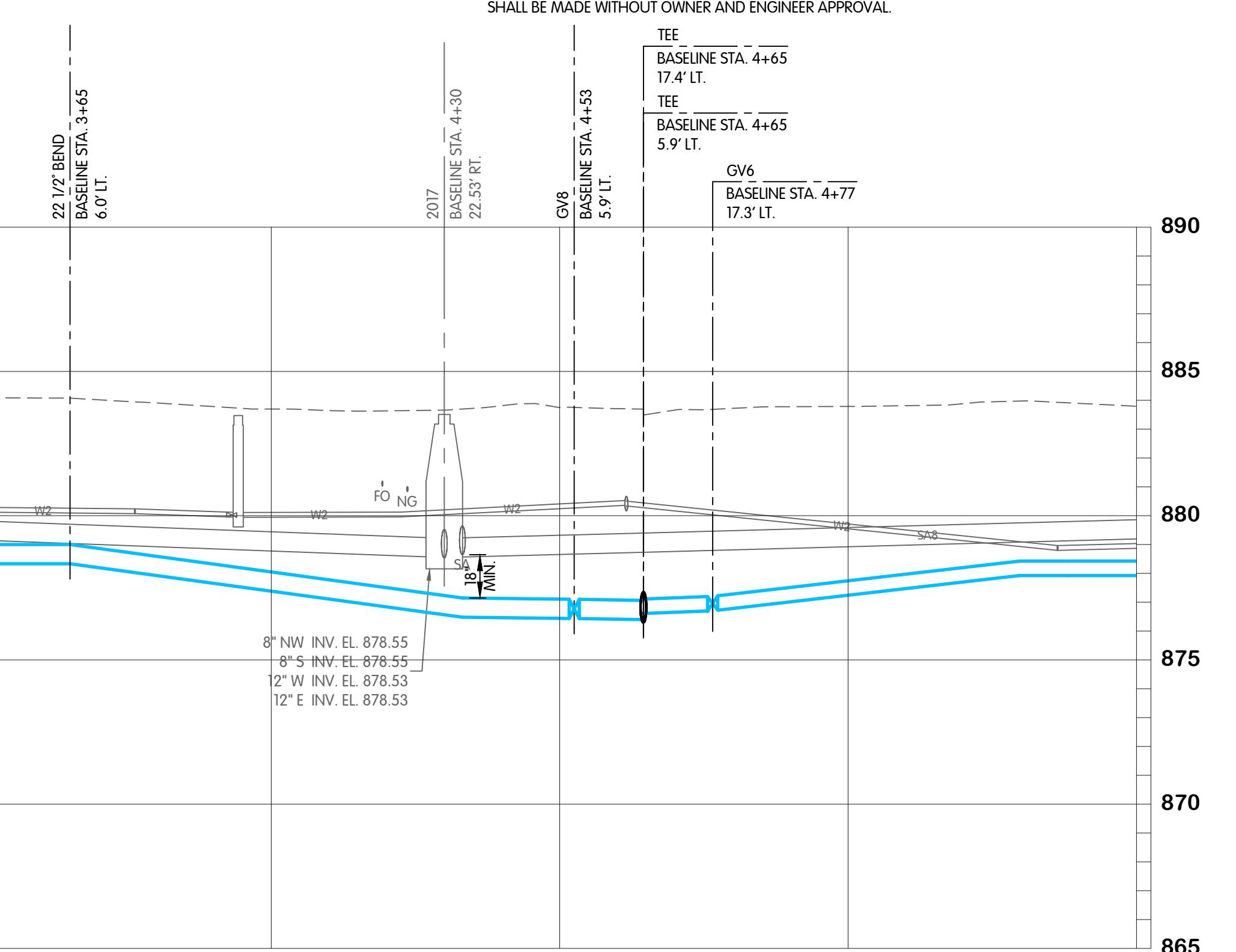


RAGGEDY ANN ROAD

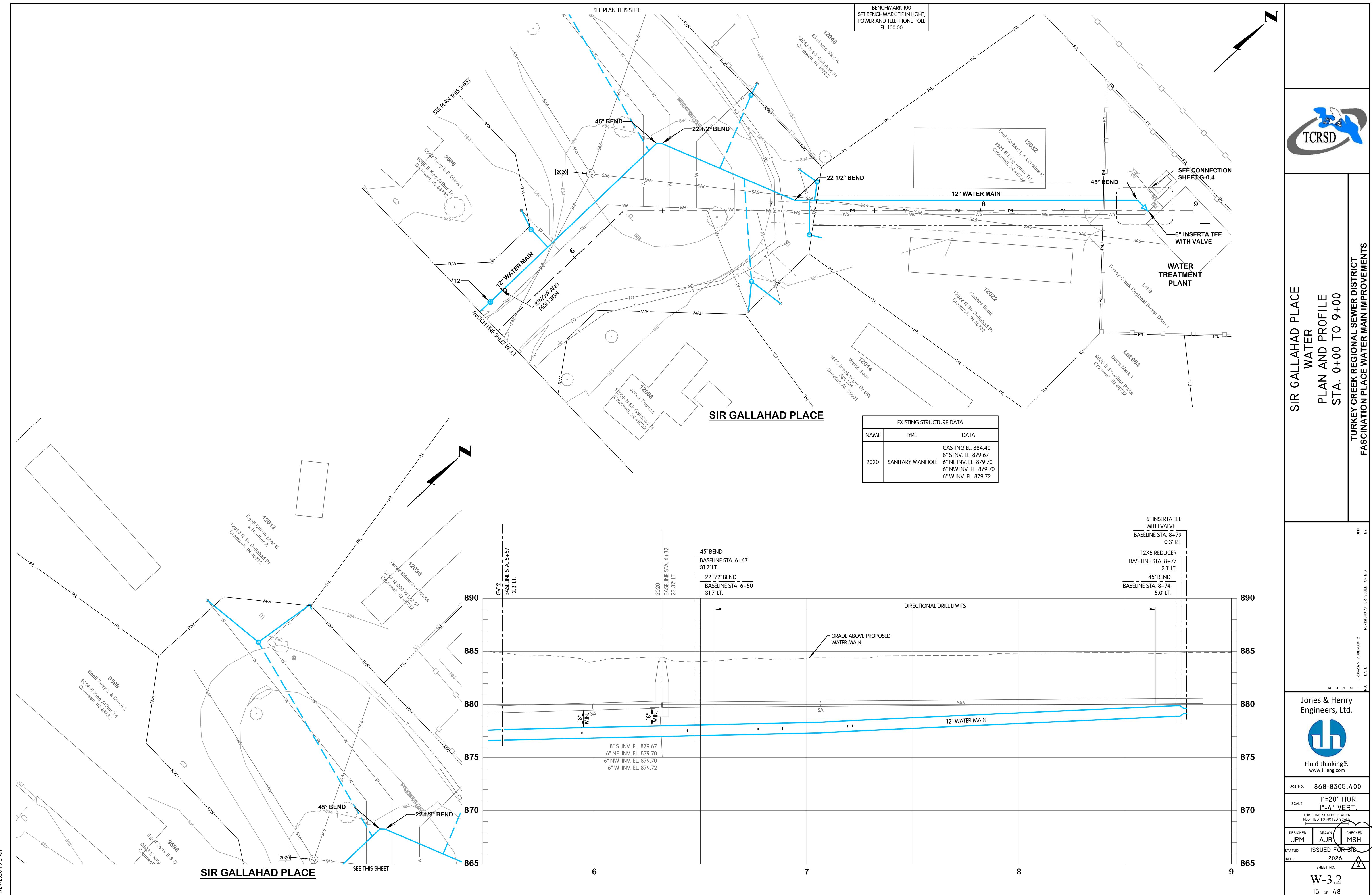
EXISTING STRUCTURE DATA		
NAME	TYPE	DATA
2014	SANITARY MANHOLE	CASTING EL. 885.71 8" W INV. EL. 879.91 8" E INV. EL. 880.91 8" N INV. EL. 880.11
2019	SANITARY MANHOLE	CASTING EL. 884.79 8" S INV. EL. 878.88 12" W INV. EL. 878.84 12" E INV. EL. 878.83 8" N INV. EL. 878.90
4559	SANITARY MANHOLE	CASTING EL. 884.99 8" S INV. EL. 878.99 8" N INV. EL. 878.99

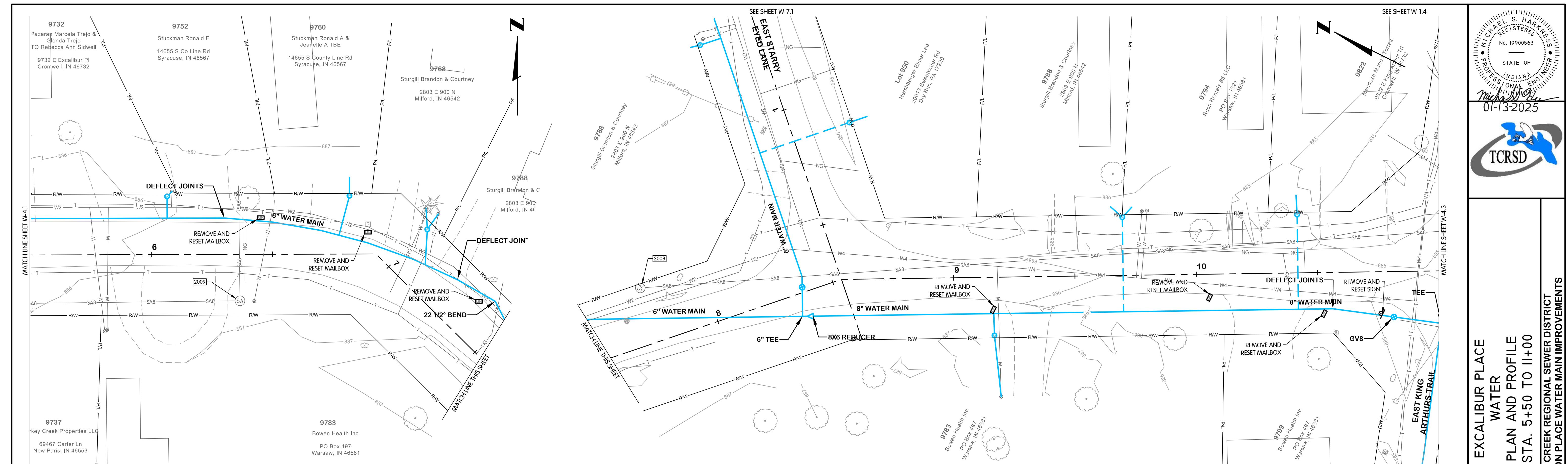
NOTES: SEE SHEET W-1.2

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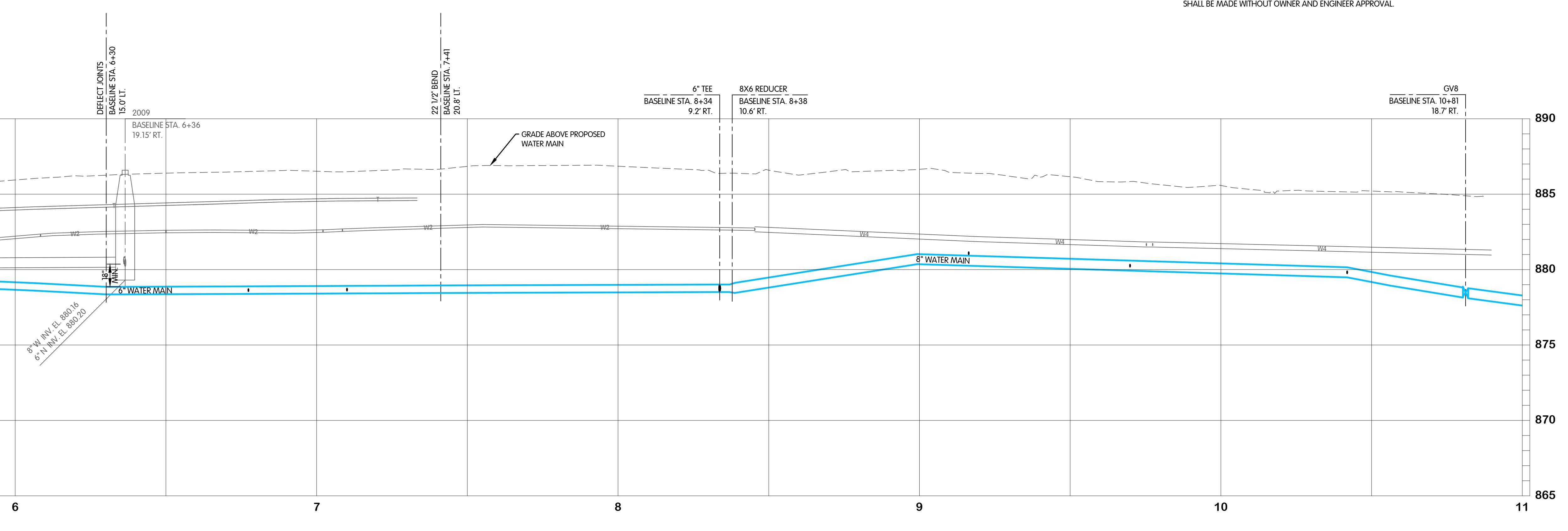
FTTW-8305400W2-W-2.1 RAGGEDY ANN STA. 0+00 TO 5+50
1/28/2026 12:23 PM - ABLAISING





EXCALIBUR PLACE

EXISTING STRUCTURE DATA		
NAME	TYPE	DATA
2008	SANITARY MANHOLE	CASTING EL. 886.66 8" SE INV. EL. 880.72
2009	SANITARY MANHOLE	CASTING EL. 886.59 8" W INV. EL. 880.16 6" N INV. EL. 880.20

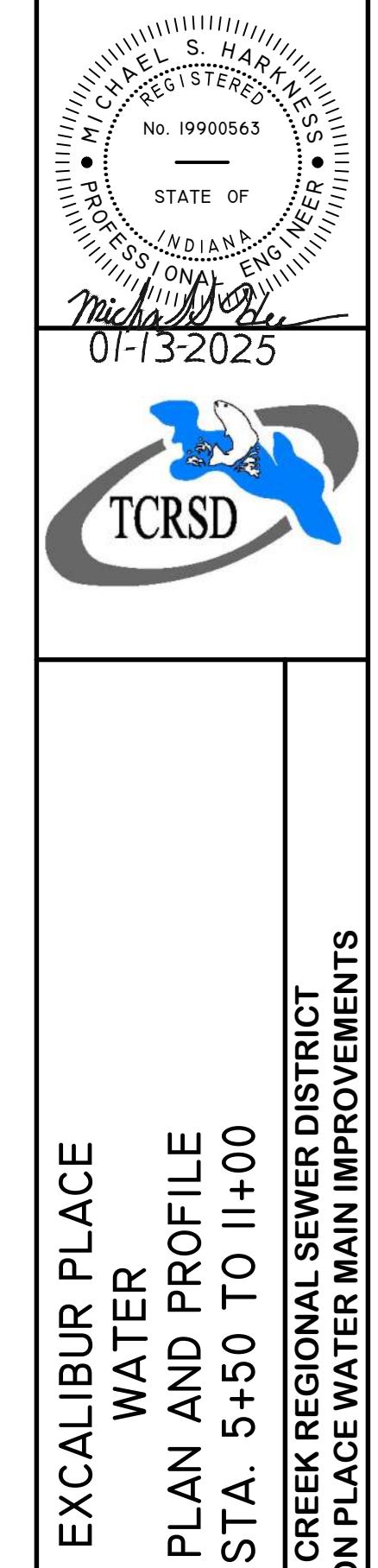


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JOB NO. 868-8305.400
SCALE 1"=20' HOR.
1"=4' VERT.
THIS LINE SCALES 1" WHEN PLOTTED TO NOTED SCALE

DESIGNED	DRAWN	CHECKED
JPM	AJB	MSH
ISSUED FOR BID		
DATE 2026		
SHEET NO. W-4.2		

17 of 48



EXCALIBUR PLACE WATER PLAN AND PROFILE STA. 5+50 TO 11+00

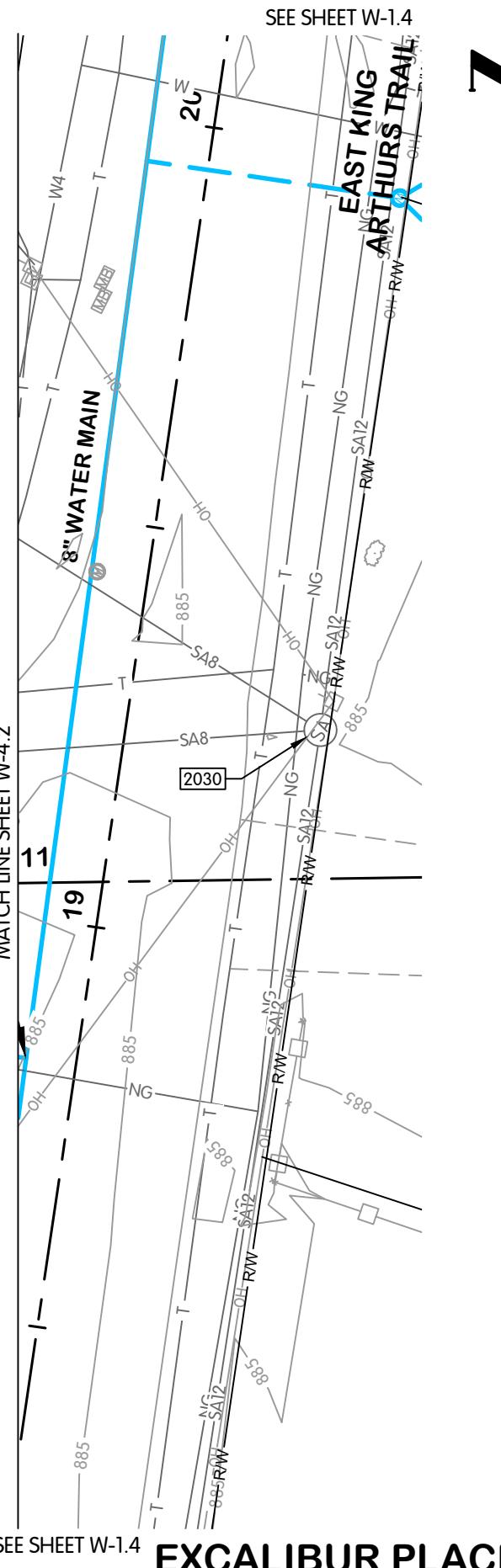
TURKEY CREEK REGIONAL SEWER DISTRICT
FASCINATION PLACE WATER MAIN IMPROVEMENTS

• MICHAEAL S. SHARKA
REGISTERED
STATE OF
INDIANA
01-13-2025

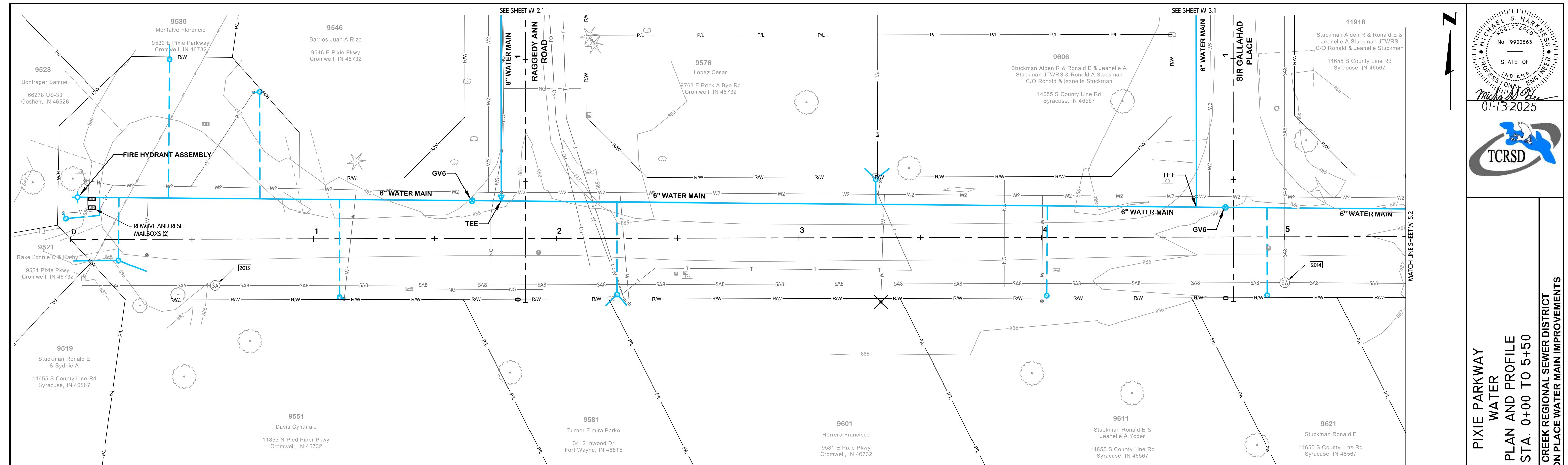


NOTES:

1. CONTRACTOR SHALL TRIM TREES AND BRUSH AS NECESSARY FOR THE INSTALLATION OF THE WORK.
2. THE CONTRACTOR SHALL PROVIDE WATER SERVICE CONNECTIONS OF A DIAMETER TO MATCH THE ORIGINAL NOMINAL DIAMETER OF THE SERVICE. THE MINIMUM SERVICE DIAMETER SHALL BE 3/4". WATER SERVICE WITH NO SIZE SHOWN SHALL BE ASSUMED TO BE 3/4" DIAMETER. PROPOSED WATER SERVICES SHALL BE 1" DIAMETER UP TO THE CURB BOX, UNLESS NOTED OTHERWISE. EXISTING SERVICE SIZE IS PROVIDED IN VERTICAL TEXT WHERE KNOWN.
3. WATER SERVICES ARE SHOWN OFFSET FROM THE EXISTING WATER SERVICES FOR CLARITY AND SHALL BE INSTALLED ALONG THE SAME ALIGNMENT.
4. NOT ALL CONSTRUCTION NOTES ARE APPLICABLE TO EVERY SHEET.
5. RIGHT-OF-WAY LIMITS SHOWN ARE APPROXIMATE.
6. WATER METER PITS TO BE LOCATED OFF OF PAVEMENT AND WITHIN THE RIGHT-OF-WAY. EXACT LOCATION OF THE METER PITS TO BE COORDINATED WITH THE OWNER.
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EXCALIBUR PLACE WATER PLAN AND PROFILE STA. II+00 TO II+50 TURKEY CREEK REGIONAL SEWER DISTRICT FASCINATION PLACE WATER MAIN IMPROVEMENTS														
 <p>Jones & Henry Engineers, Ltd. Fluid thinking[®] www.JHeng.com</p> <p>JOB NO. 868-8305.400 SCALE 1"=20' HOR. 1"=4' VERT. THIS LINE SCALES 1" WHEN PLOTTED TO NOTED SCALE</p> <table border="1"> <tr> <td>DESIGNED JPM</td> <td>DRAWN AJB</td> <td>CHECKED MSH</td> </tr> <tr> <td colspan="3">STATUS ISSUED FOR BID</td> </tr> <tr> <td colspan="3">DATE 2026</td> </tr> <tr> <td colspan="3">SHEET NO. 18 OF 48</td> </tr> </table>			DESIGNED JPM	DRAWN AJB	CHECKED MSH	STATUS ISSUED FOR BID			DATE 2026			SHEET NO. 18 OF 48		
DESIGNED JPM	DRAWN AJB	CHECKED MSH												
STATUS ISSUED FOR BID														
DATE 2026														
SHEET NO. 18 OF 48														



PIXIE PARKWAY
WATER
PLAN AND PROFILE
STA. 0+00 TO 5+5
' CREEK REGIONAL SEWER
ON PLACE WATER MAIN

FASCINATION PLACE WATER MAIN IMPROVEMENTS

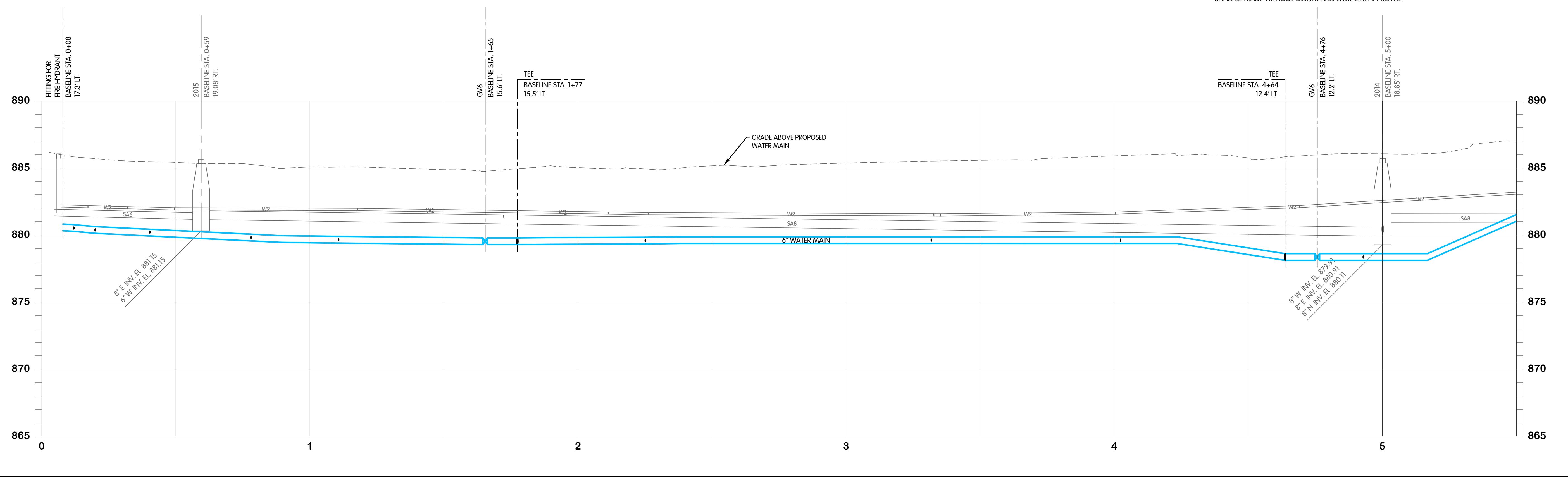
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2014	SANITARY MANHOLE	CASTING EL. 885.71 8" W INV. EL. 879.91 8" E INV. EL. 880.91 8" N INV. EL. 880.11
2015	SANITARY MANHOLE	CASTING EL. 885.65 8" E INV. EL. 881.15 6" W INV. EL. 881.15

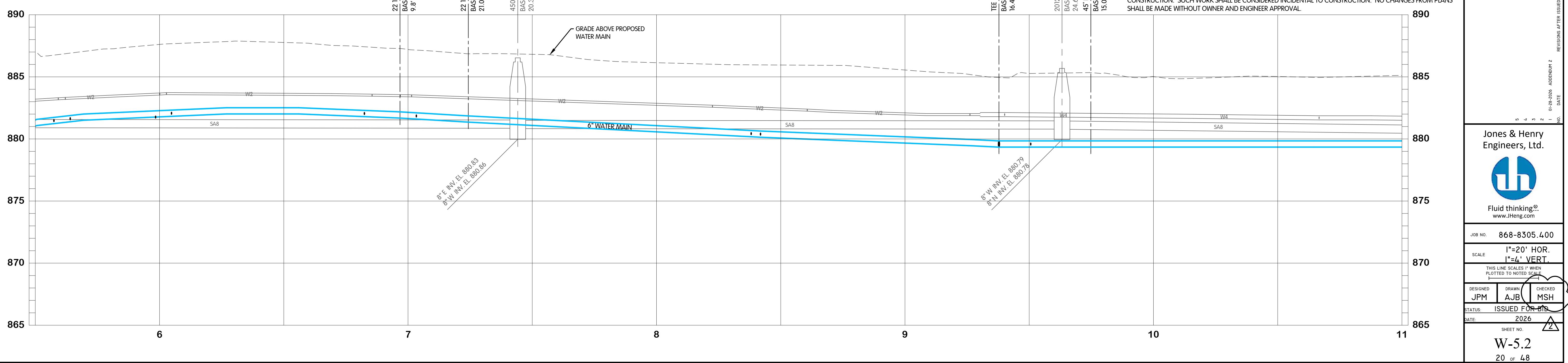
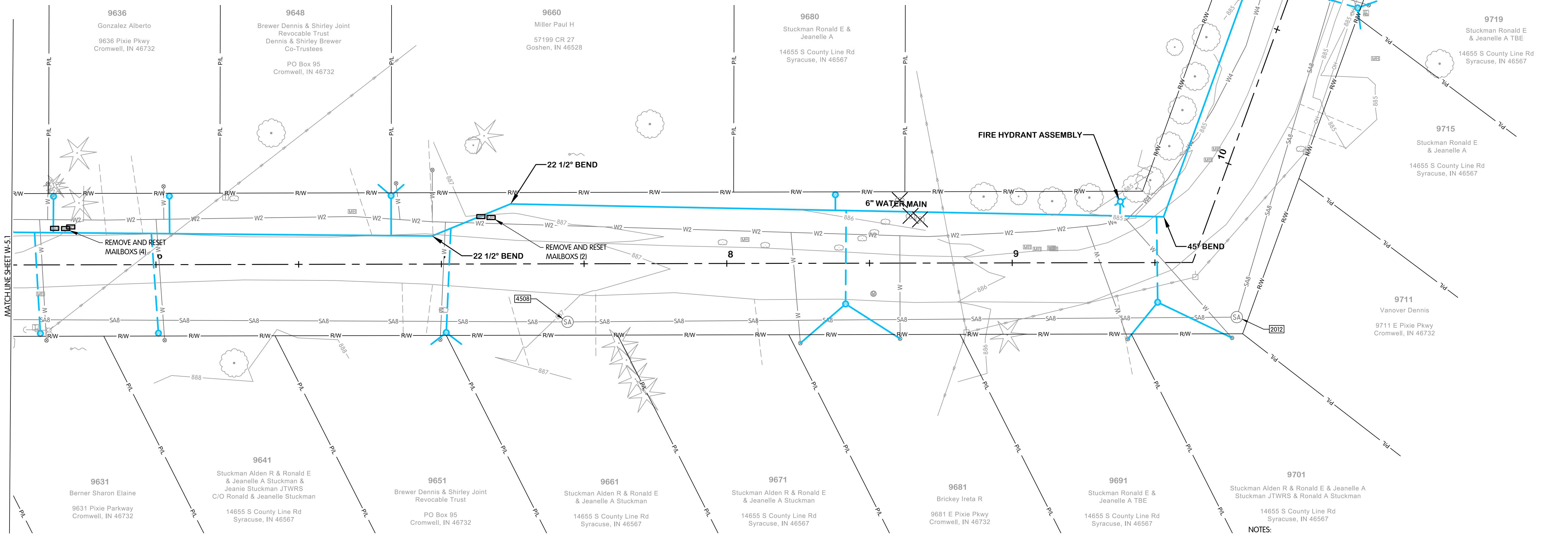
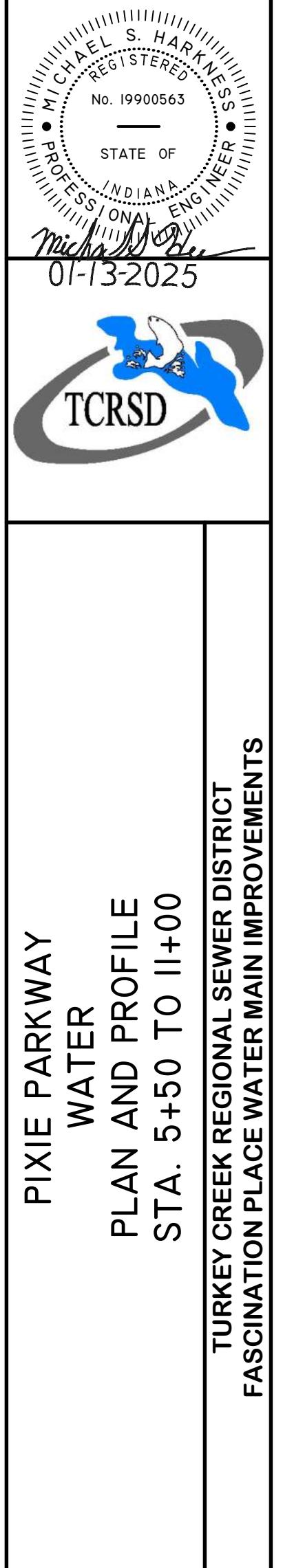
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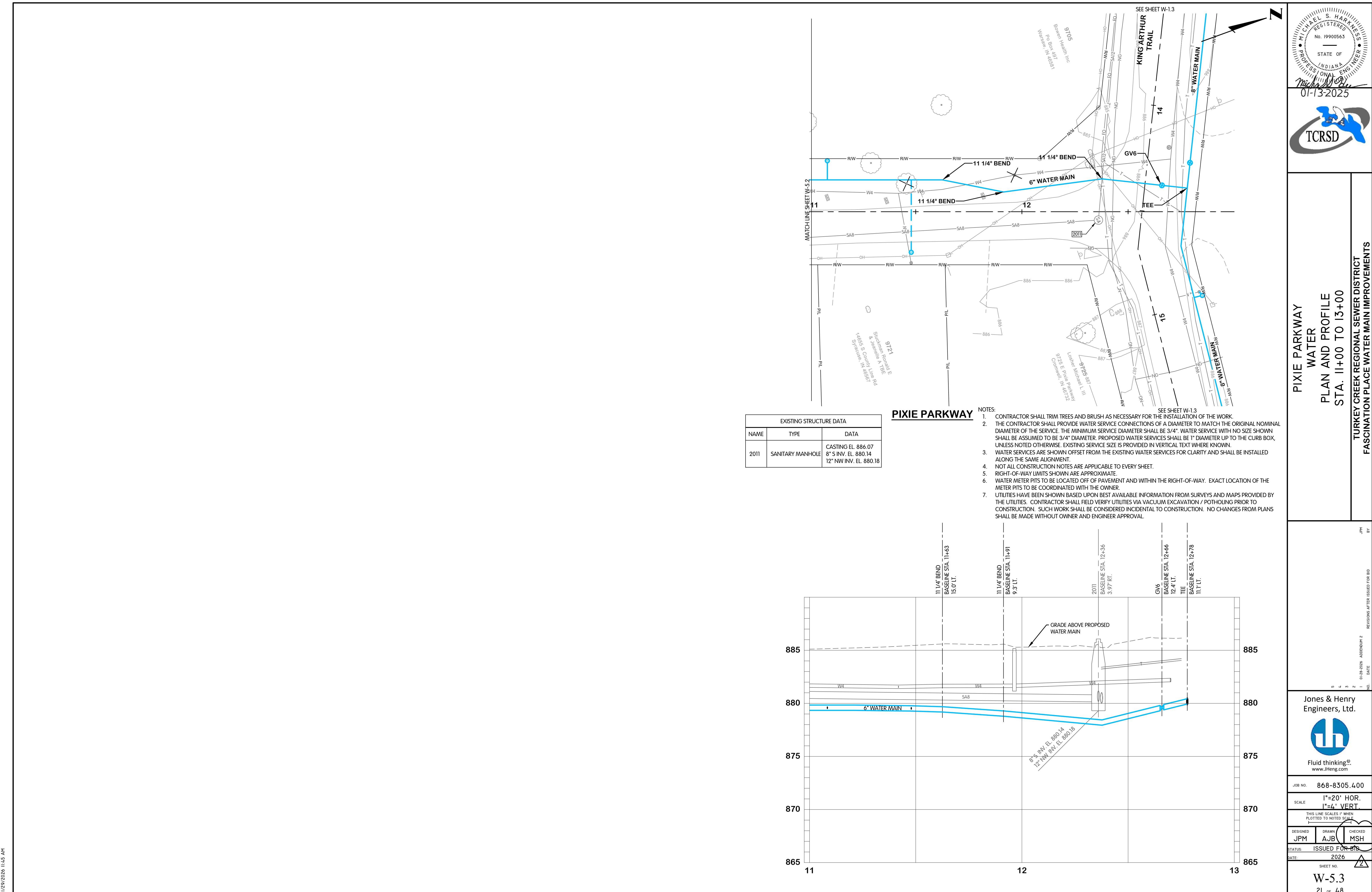
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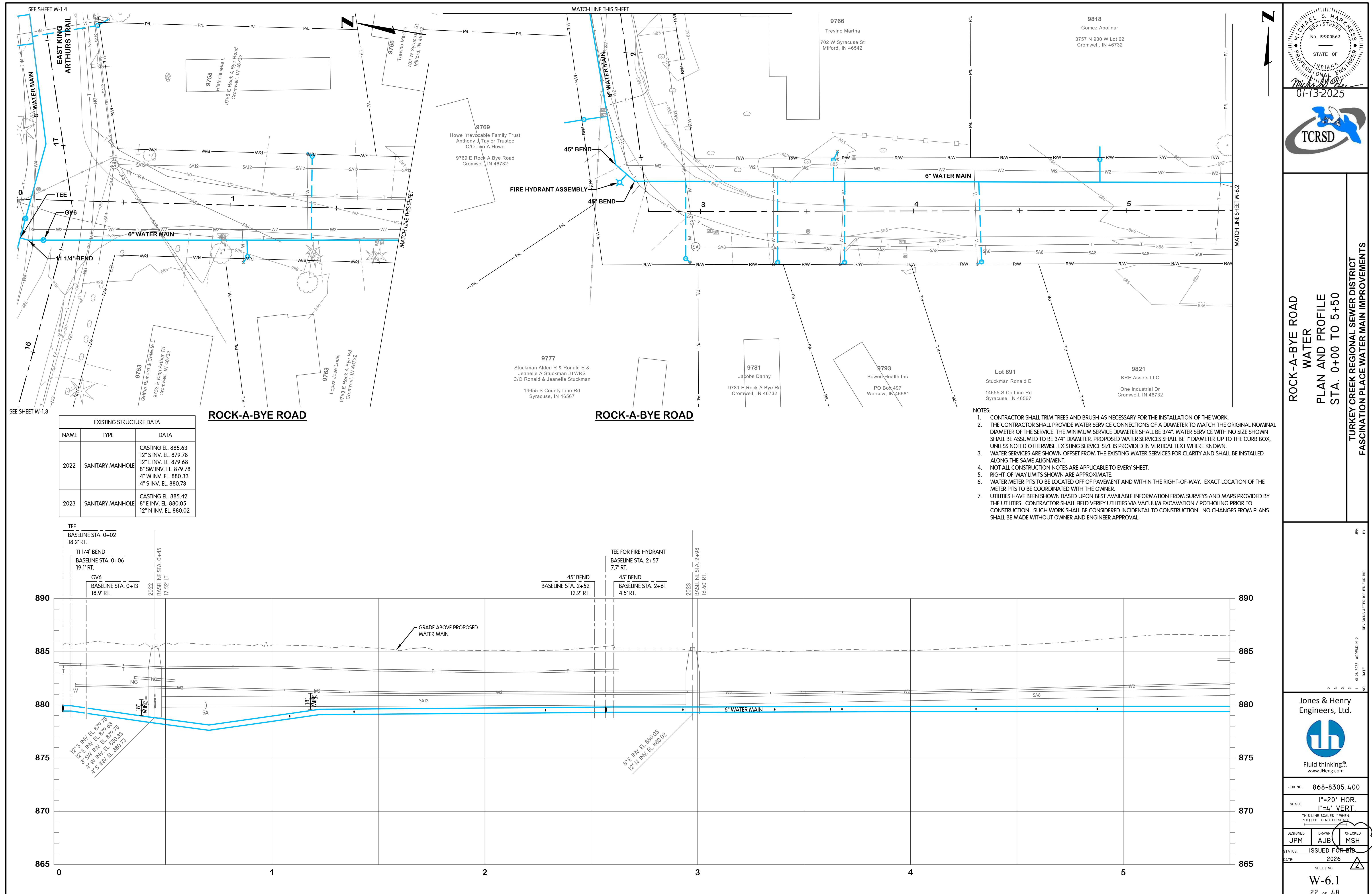
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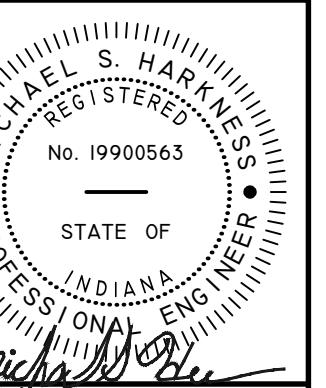
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01-13-2025



ROCK-A-BYE ROAD
WATER
PLAN AND PROFILE
STA. 5+50 TO 11+00
Y CREEK REGIONAL SEWER D

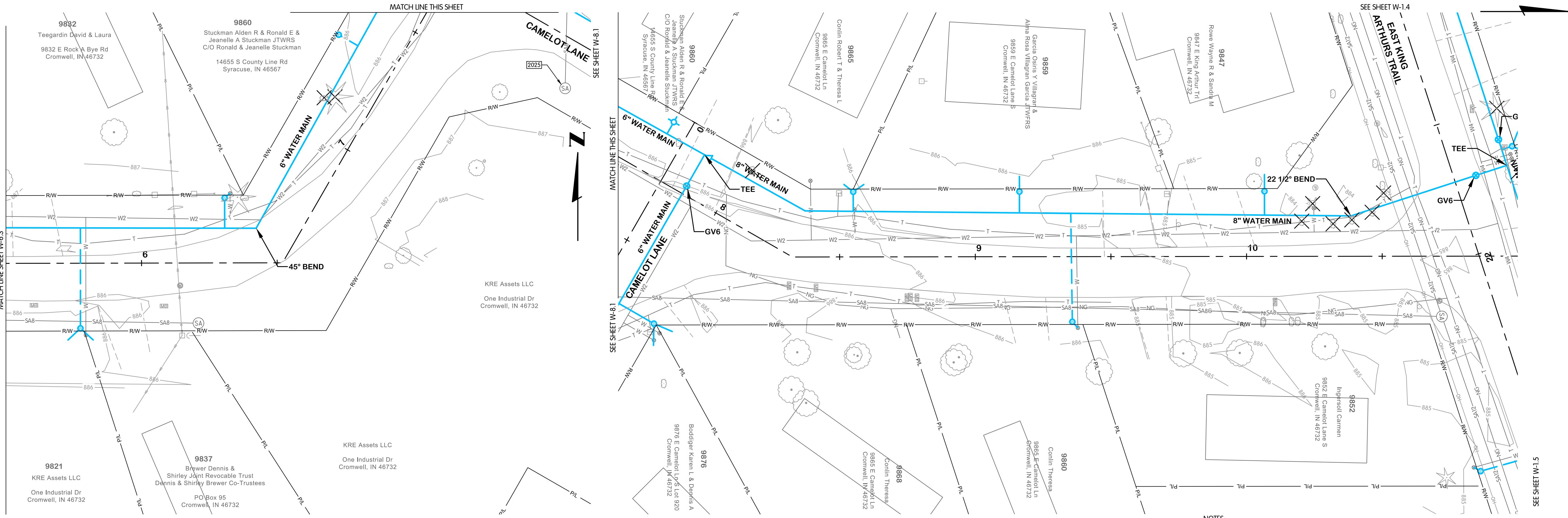
TURKEY CREEK REGIONAL SEWER DISTRICT FASCINATION PLACE WATER MAIN IMPROVEMENTS

CAMELOT LANE

NOTE

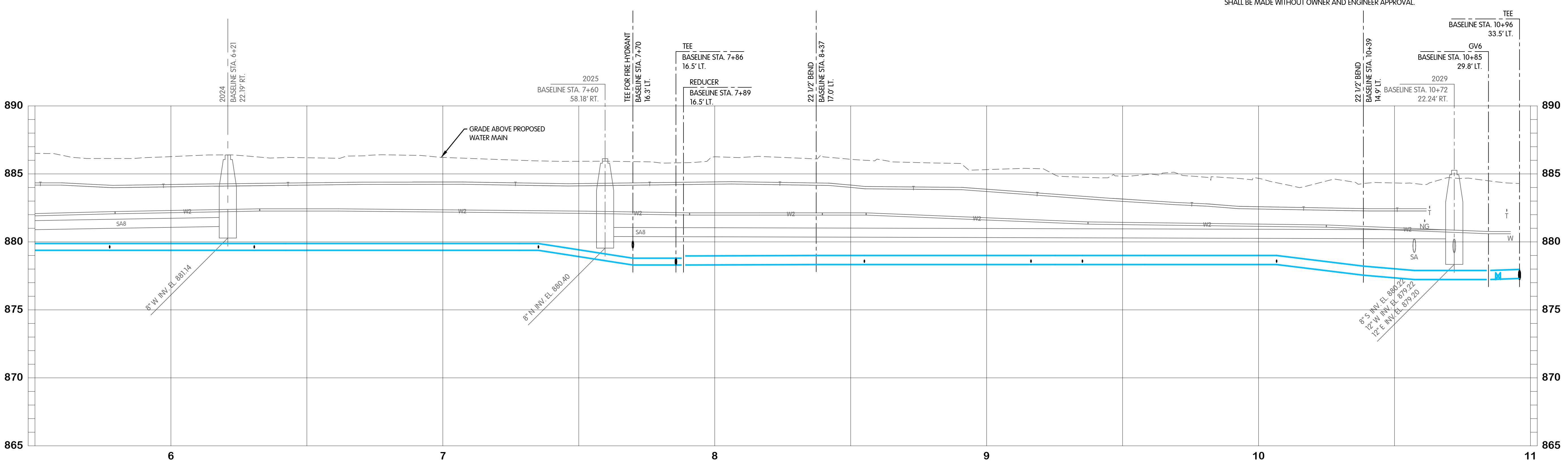
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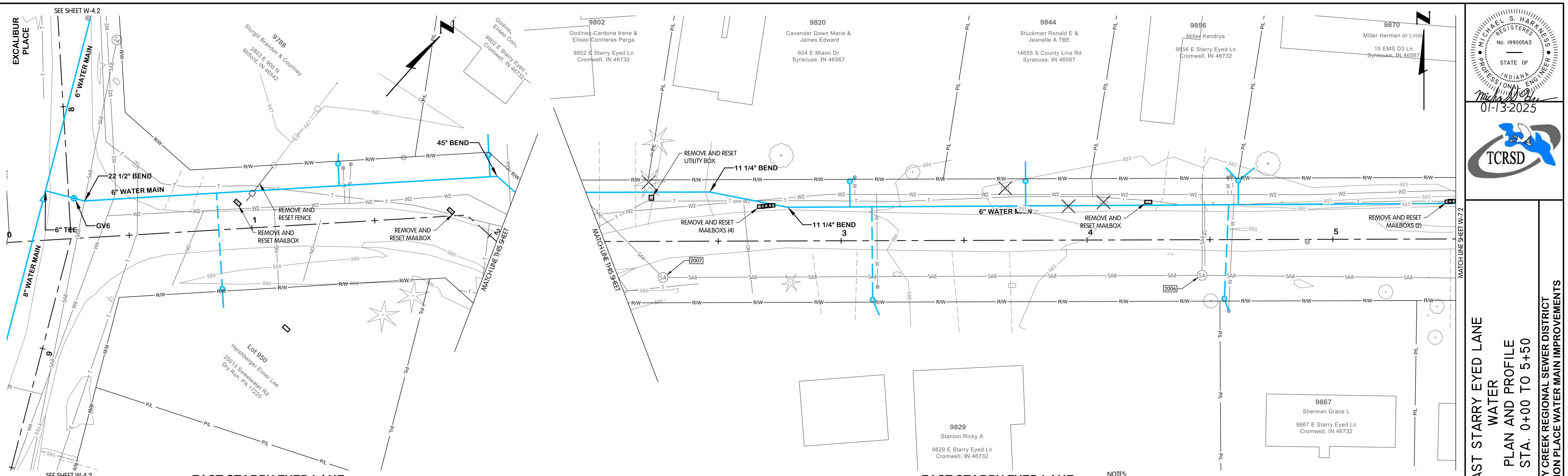


EXISTING STRUCTURE DATA		
NAME	TYPE	DATA
2024	SANITARY MANHOLE	CASTING EL. 886.39 8" W INV. EL. 881.14
2025	SANITARY MANHOLE	CASTING EL. 886.12 8" N INV. EL. 880.40
2029	SANITARY MANHOLE	CASTING EL. 885.27 8" S INV. EL. 880.22 12" W INV. EL. 879.22 12" E INV. EL. 879.20

ROCK-A-BYE ROAD



TW-8305400W6-W-6.2 ROCK A BYE STA. 5+50 TO 11+00
28/2026 1:53 PM - ABLAISING
20/2026 11:16 AM

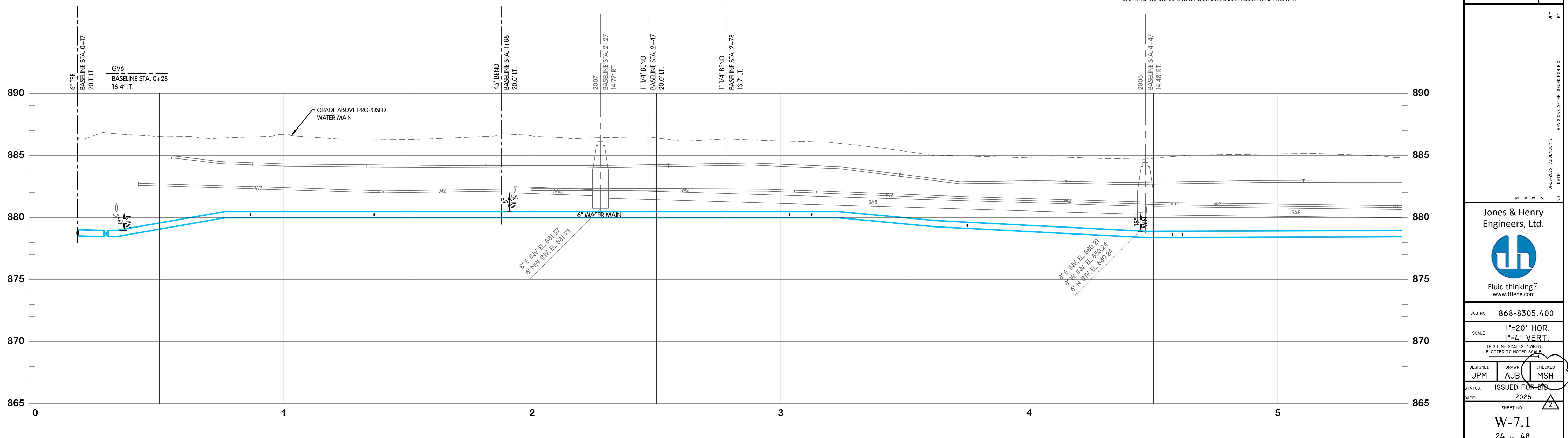


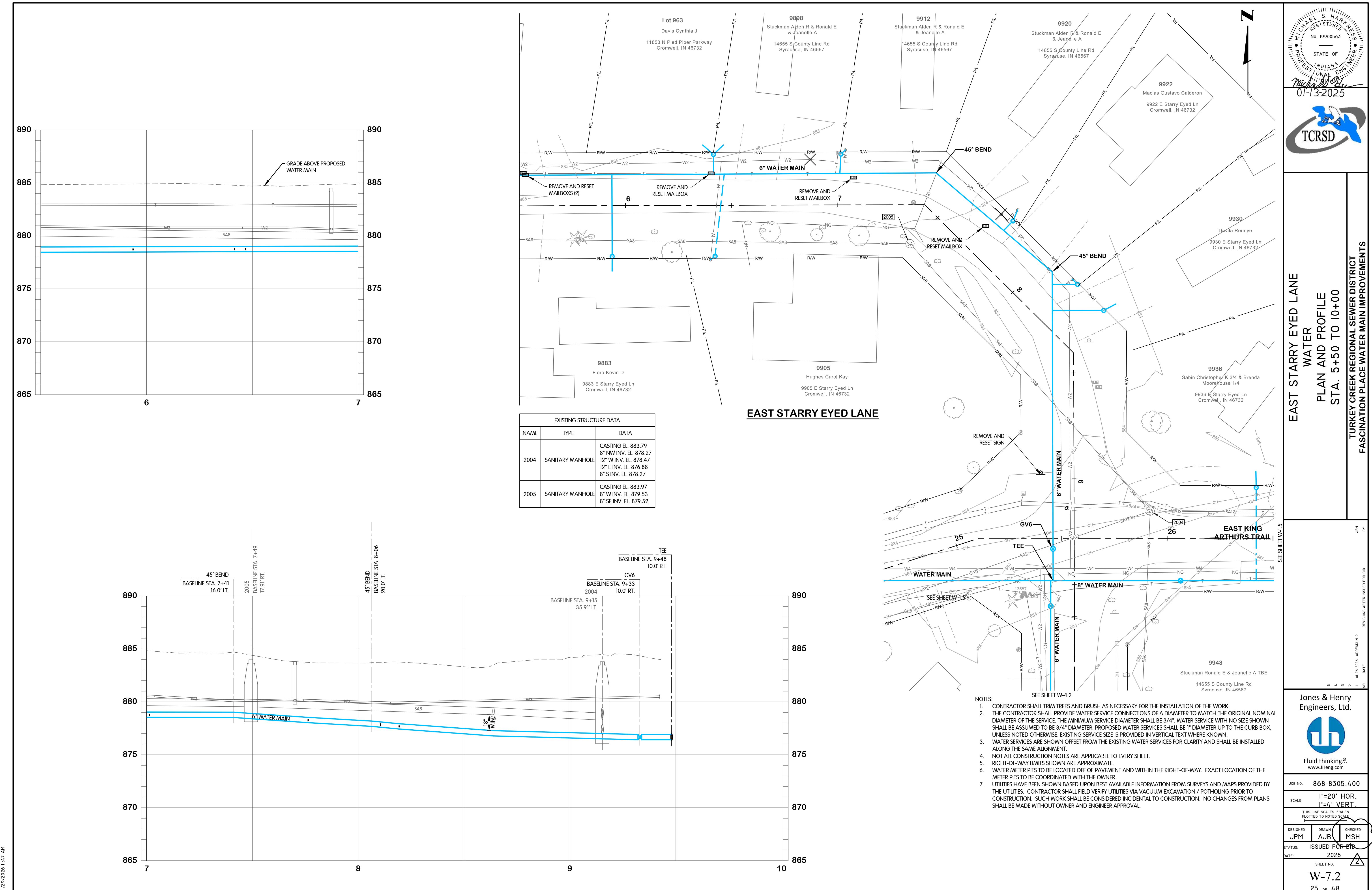
EAST STARRY EYED LANE

EAST STARRY EYED LANE

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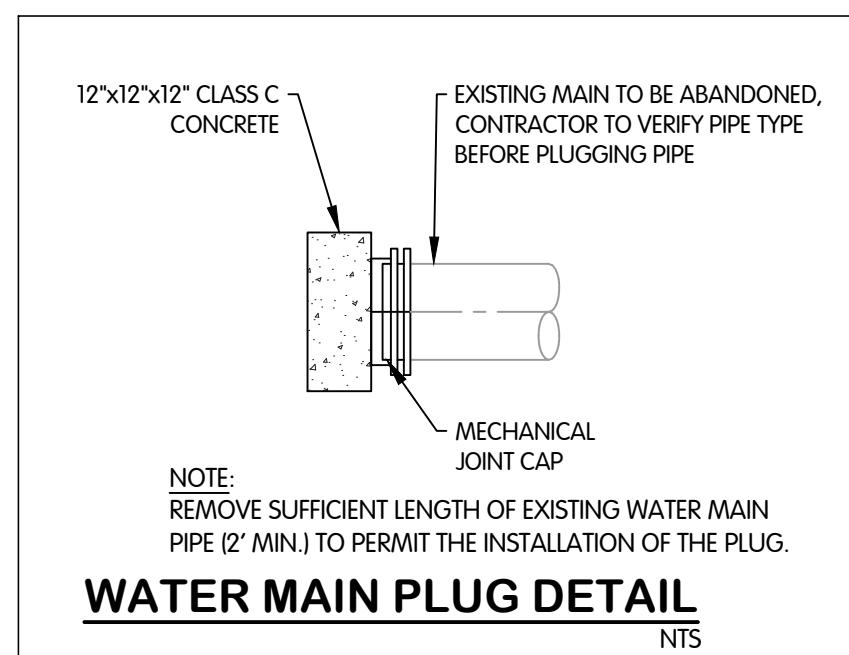


Michael S. Harka
REGISTERED
No. 19900563
STATE OF
INDIANA
01-13-2025

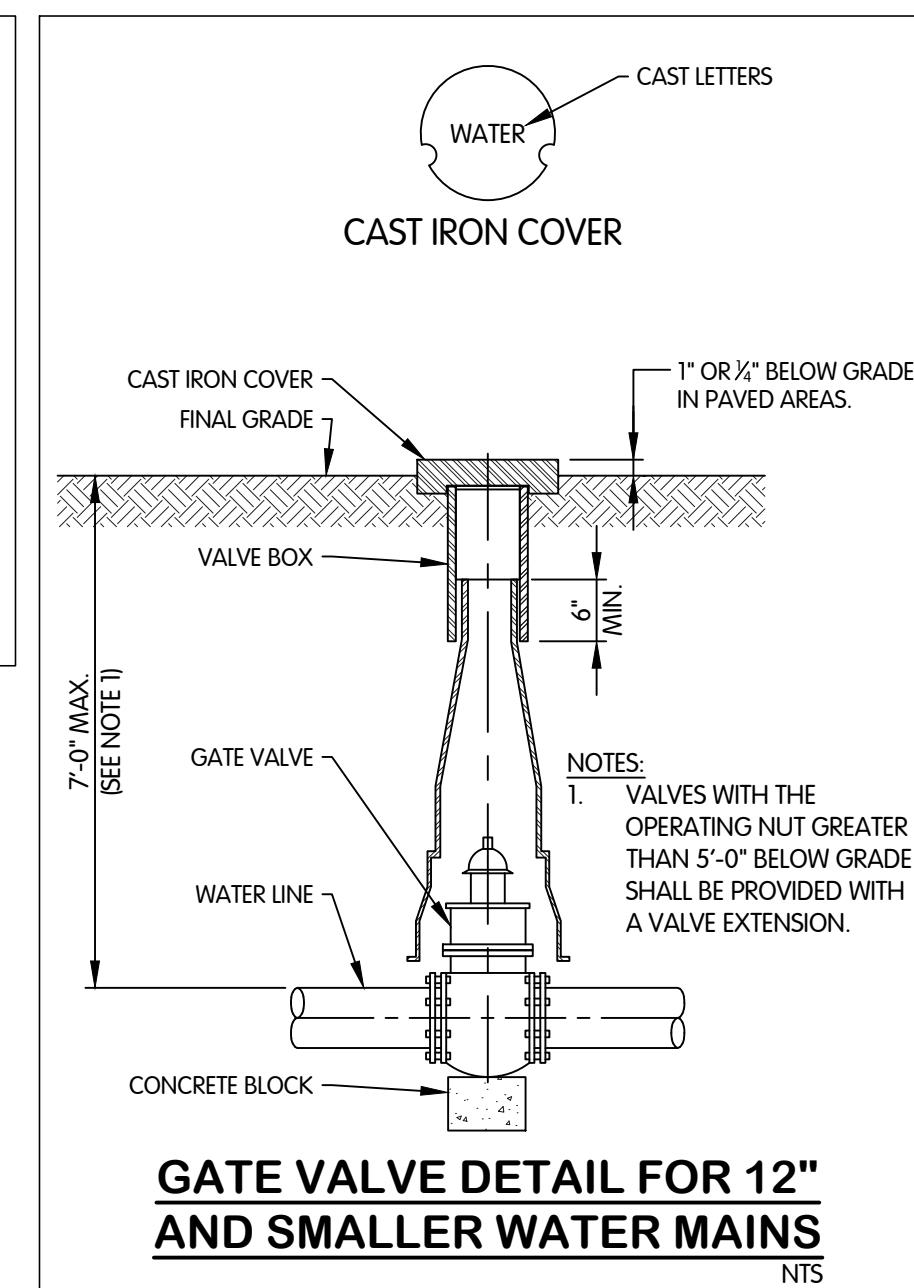


CIVIL WATER - MANHOLE, FIRE HYDRANT, WATER SERVICE, VALVE AND BLOWOFF DETAILS

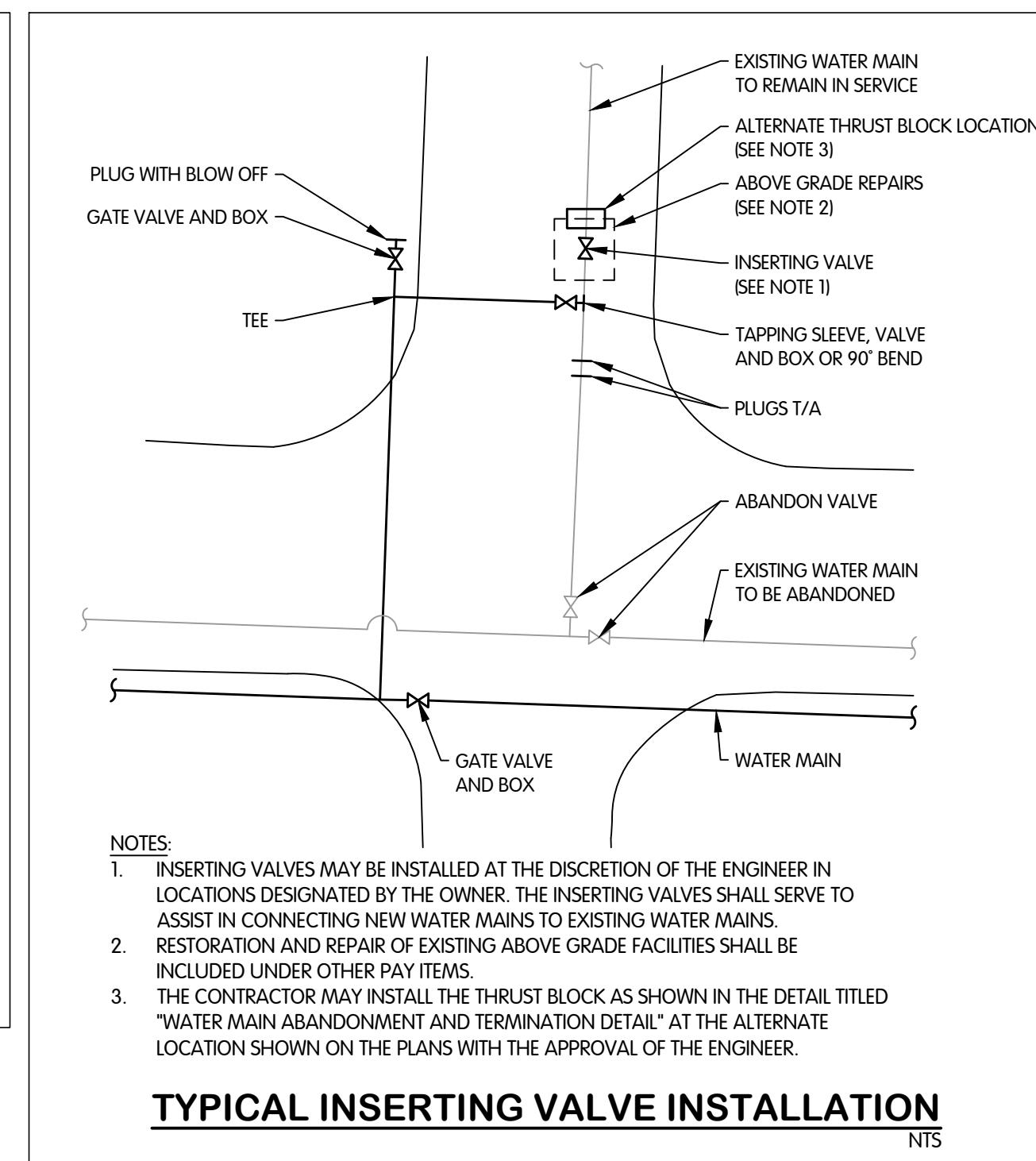
TURKEY CREEK REGIONAL SEWER DISTRICT
FASCINATION PLACE WATER MAIN IMPROVEMENTS



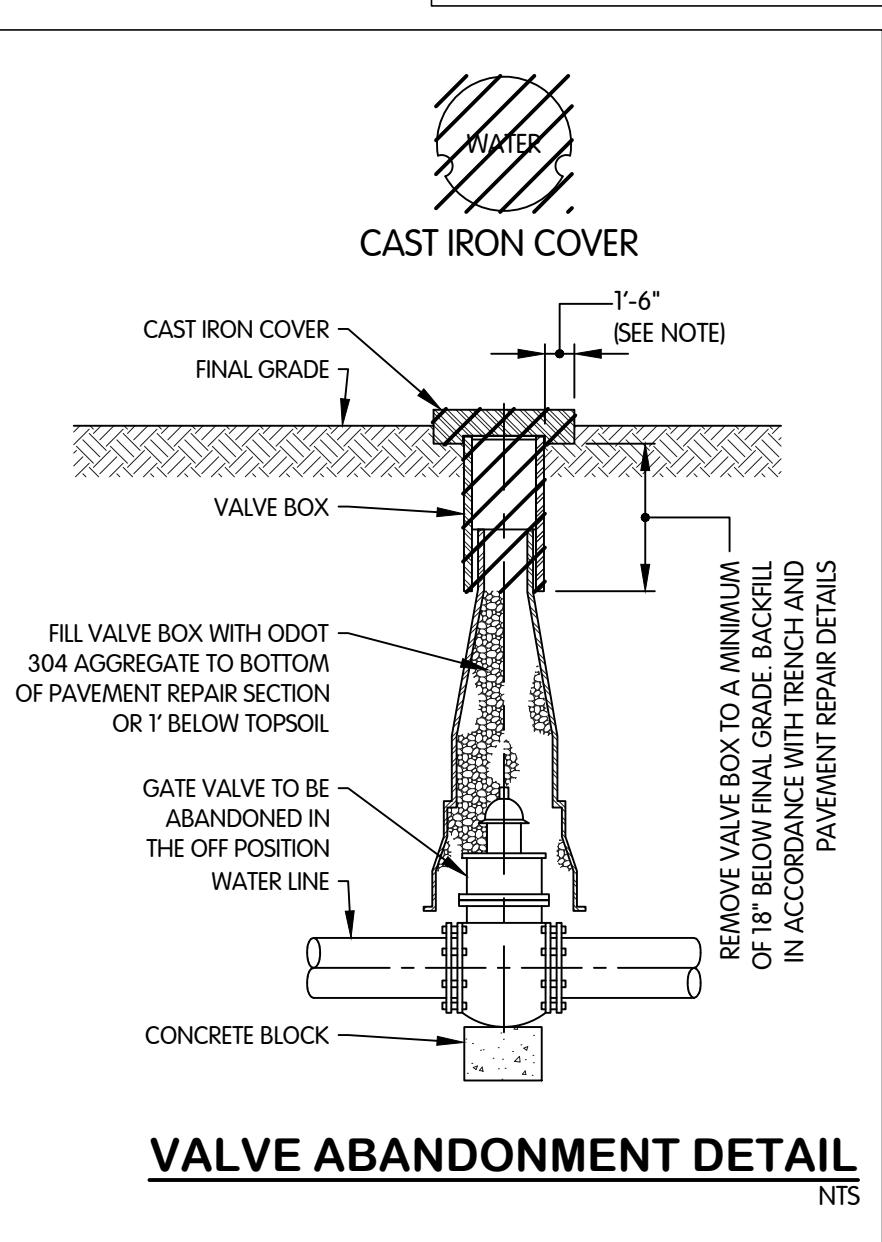
WATER MAIN PLUG DETAIL



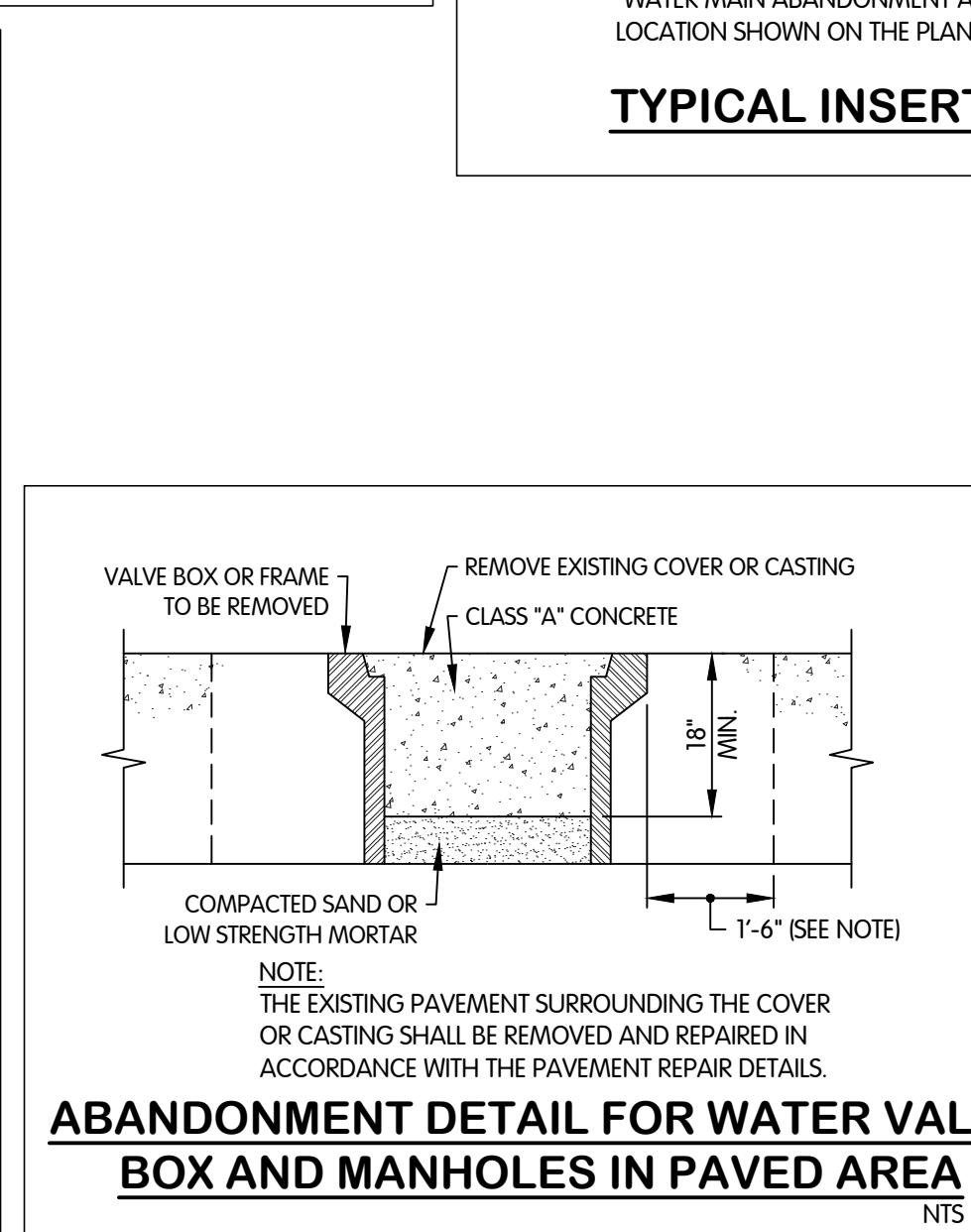
**GATE VALVE DETAIL FOR 12"
AND SMALLER WATER MAINS**



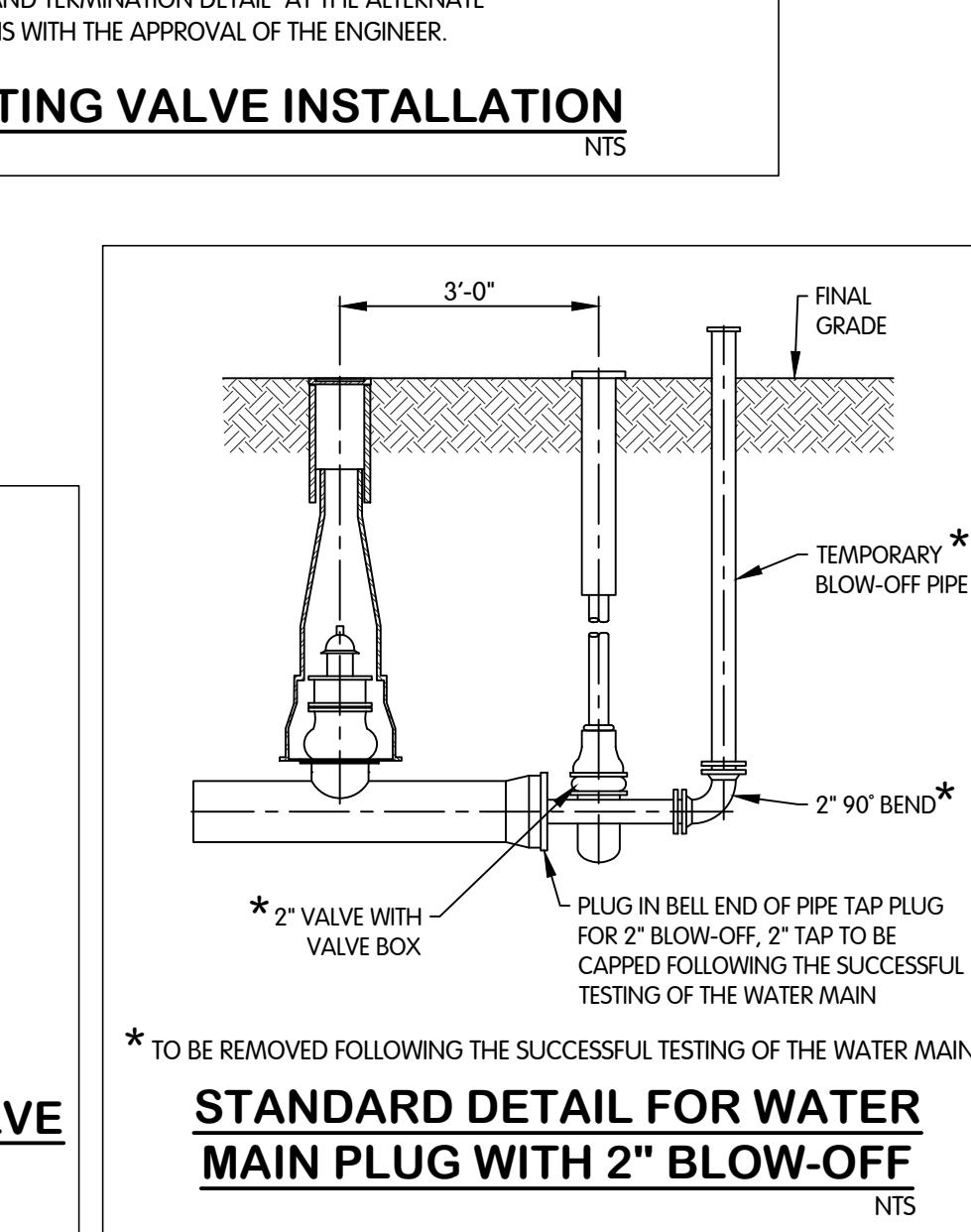
TYPICAL INSERTING VALVE INSTALLATION



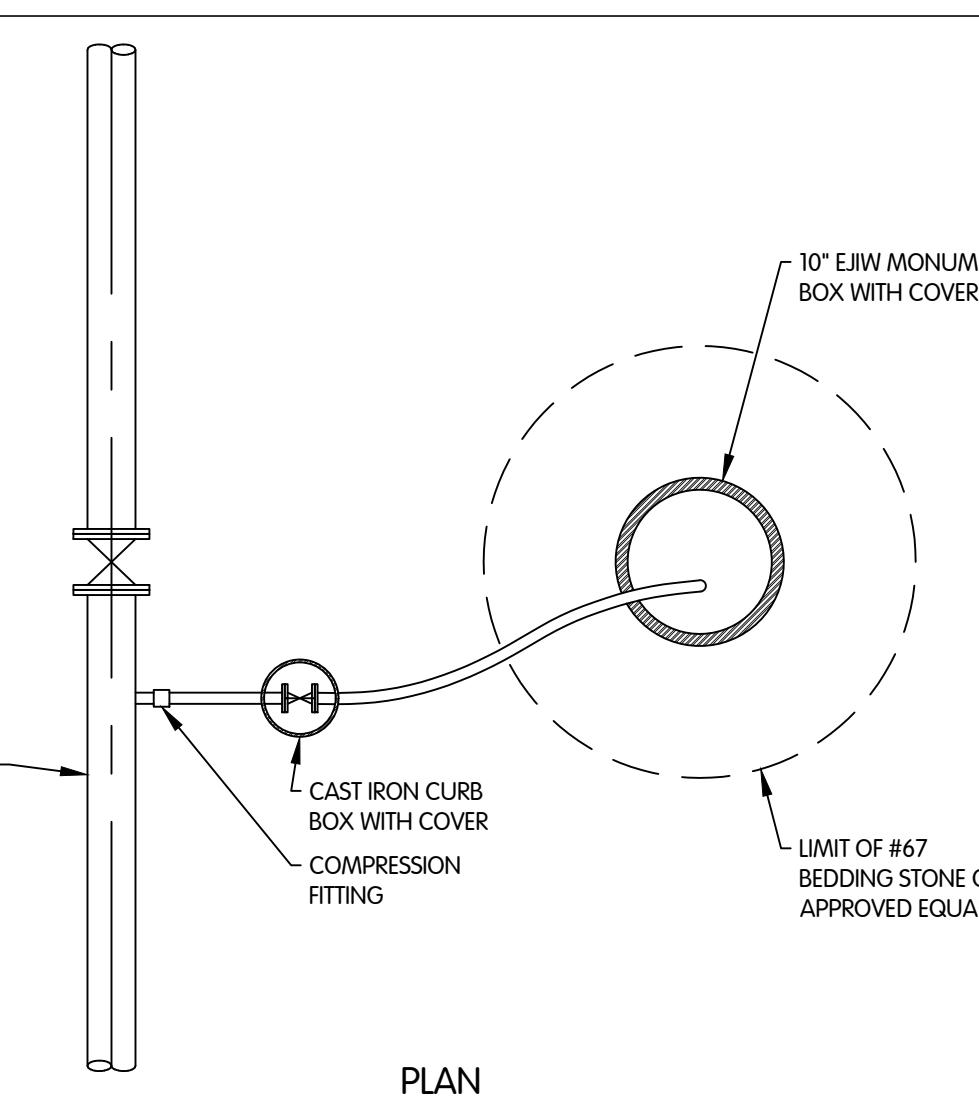
VALVE ABANDONMENT DETAIL



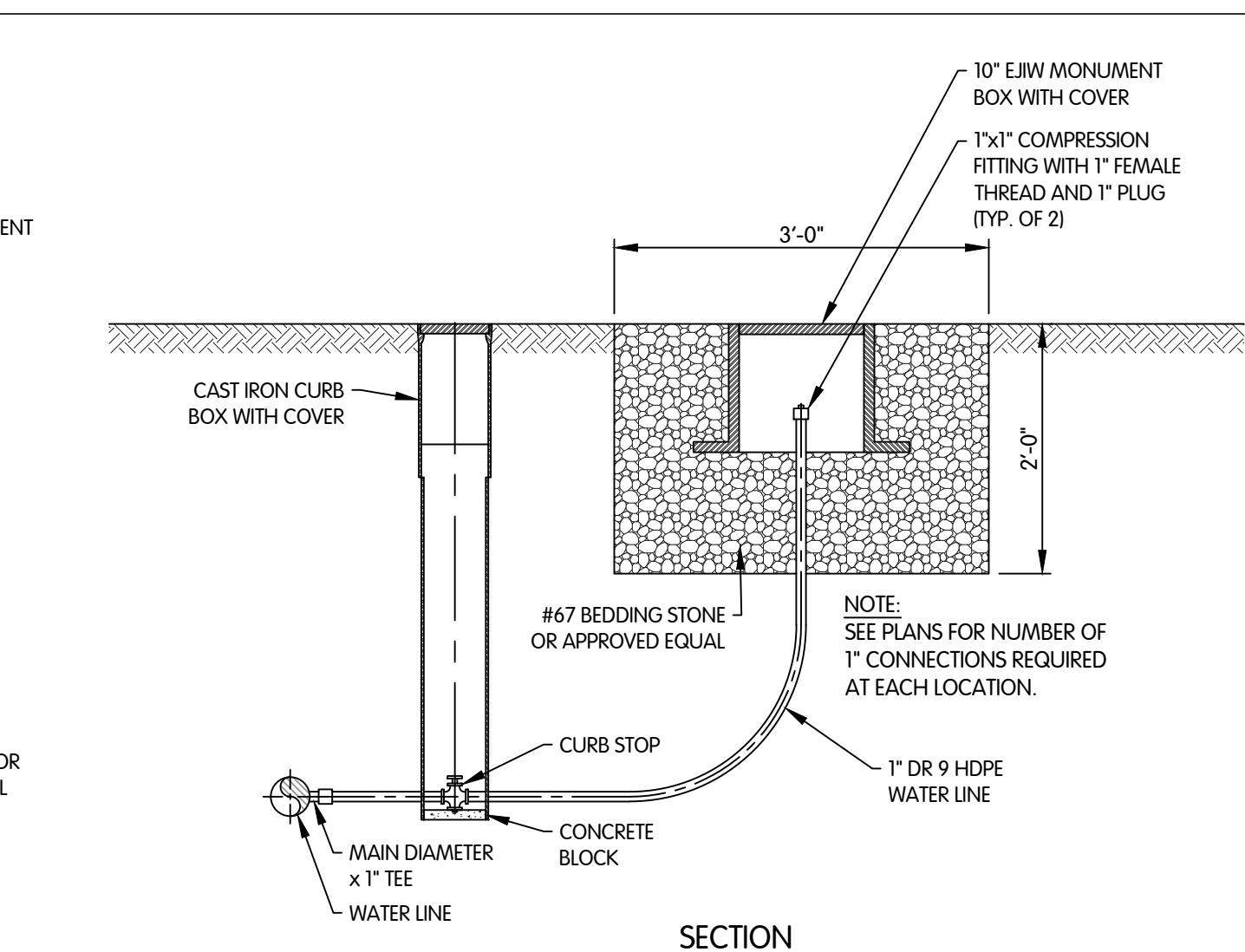
**ABANDONMENT DETAIL FOR WATER VALVE
BOX AND MANHOLES IN PAVED AREA**



**STANDARD DETAIL FOR WATER
MAIN PLUG WITH 2" BLOW-OFF**



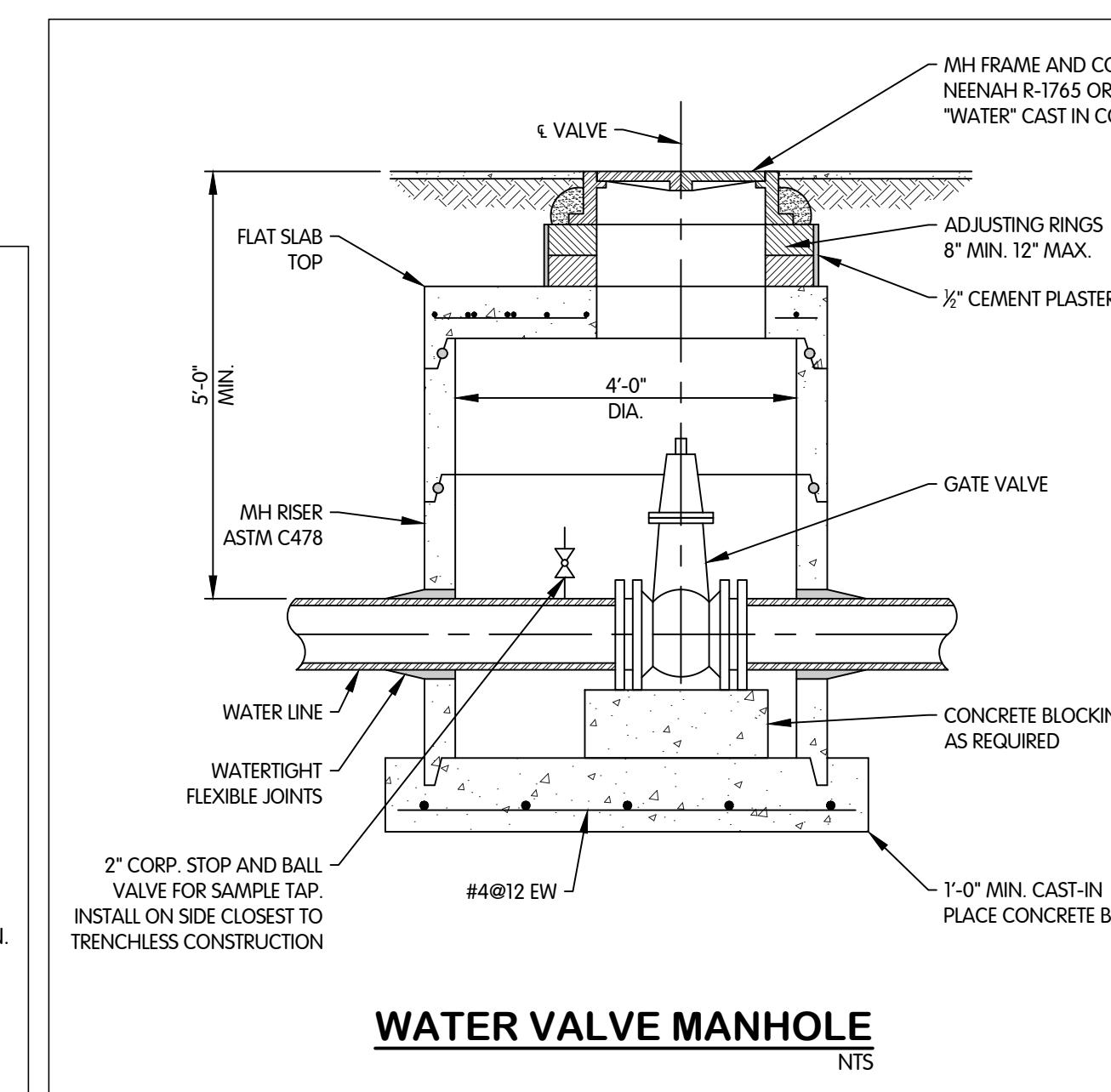
WATER BLOW-OFF ASSEMBLY



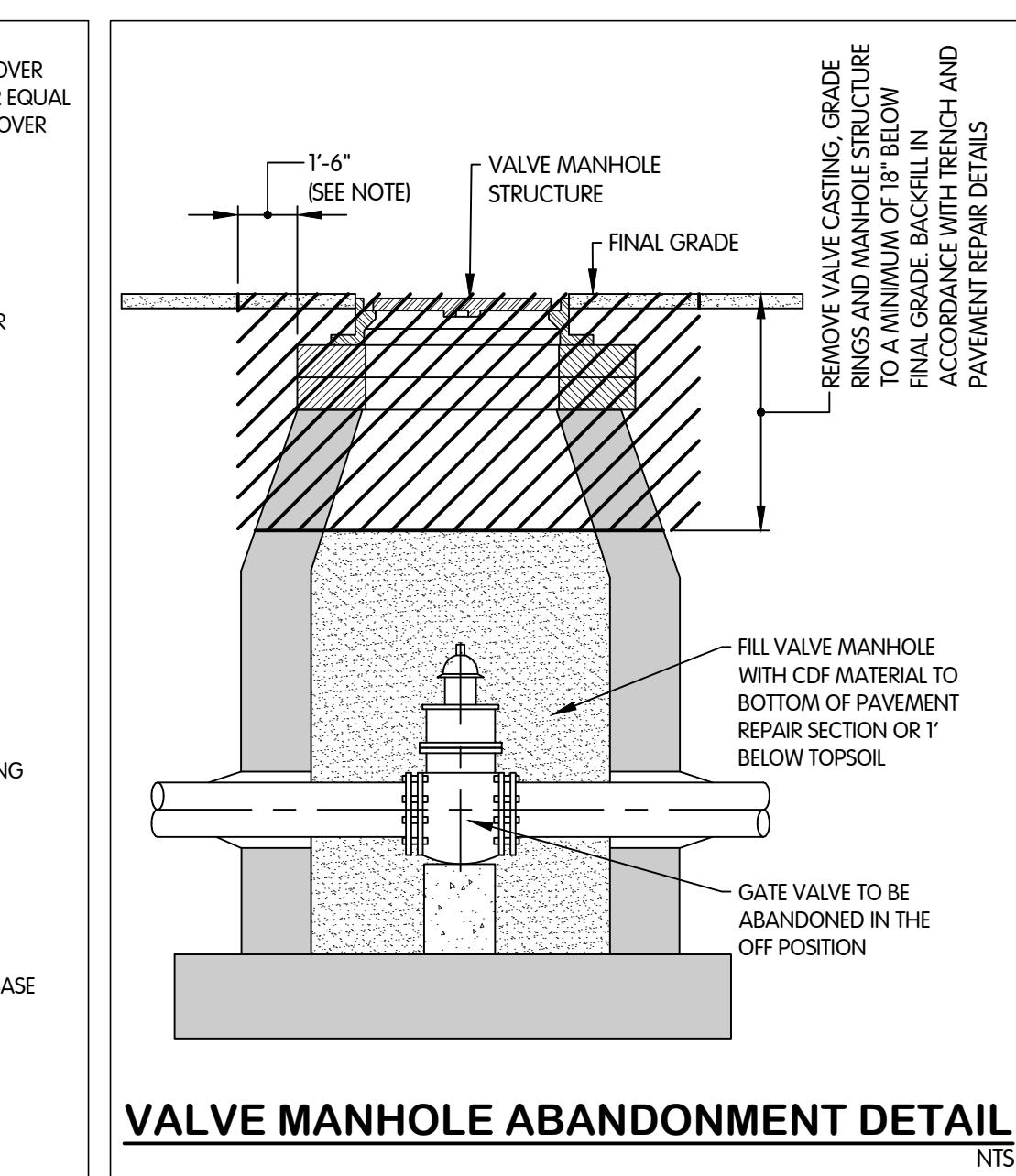
10" EJW MONUMENT
BOX WITH COVER
1" x 1" COMPRESSION
FITTING WITH 1" FEMALE
THREAD AND 1" PLUG
(TYP. OF 2)

NOTE: SEE PLANS FOR NUMBER OF
1" CONNECTIONS REQUIRED
AT EACH LOCATION.

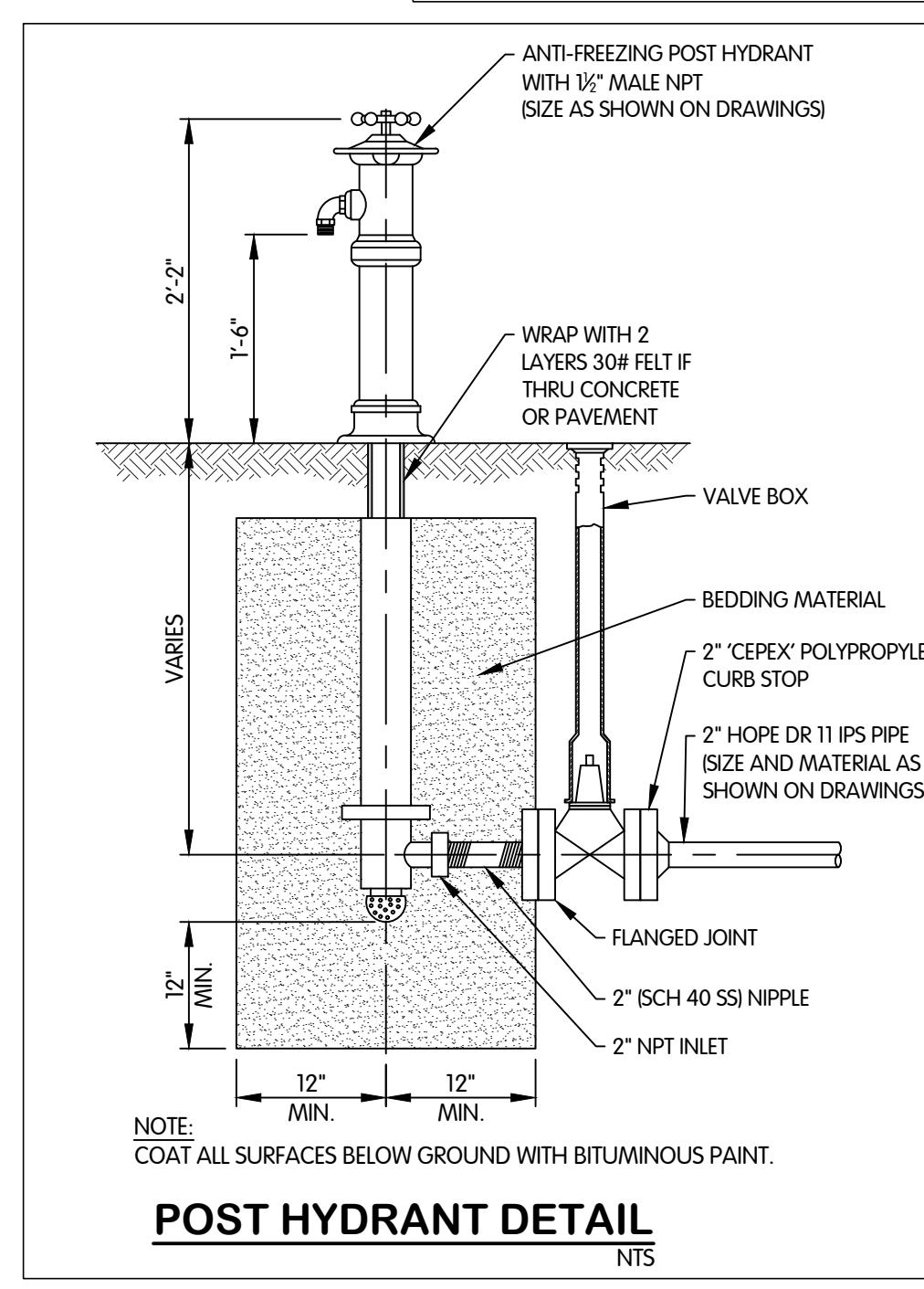
1" DR 9 HDPE
WATER LINE



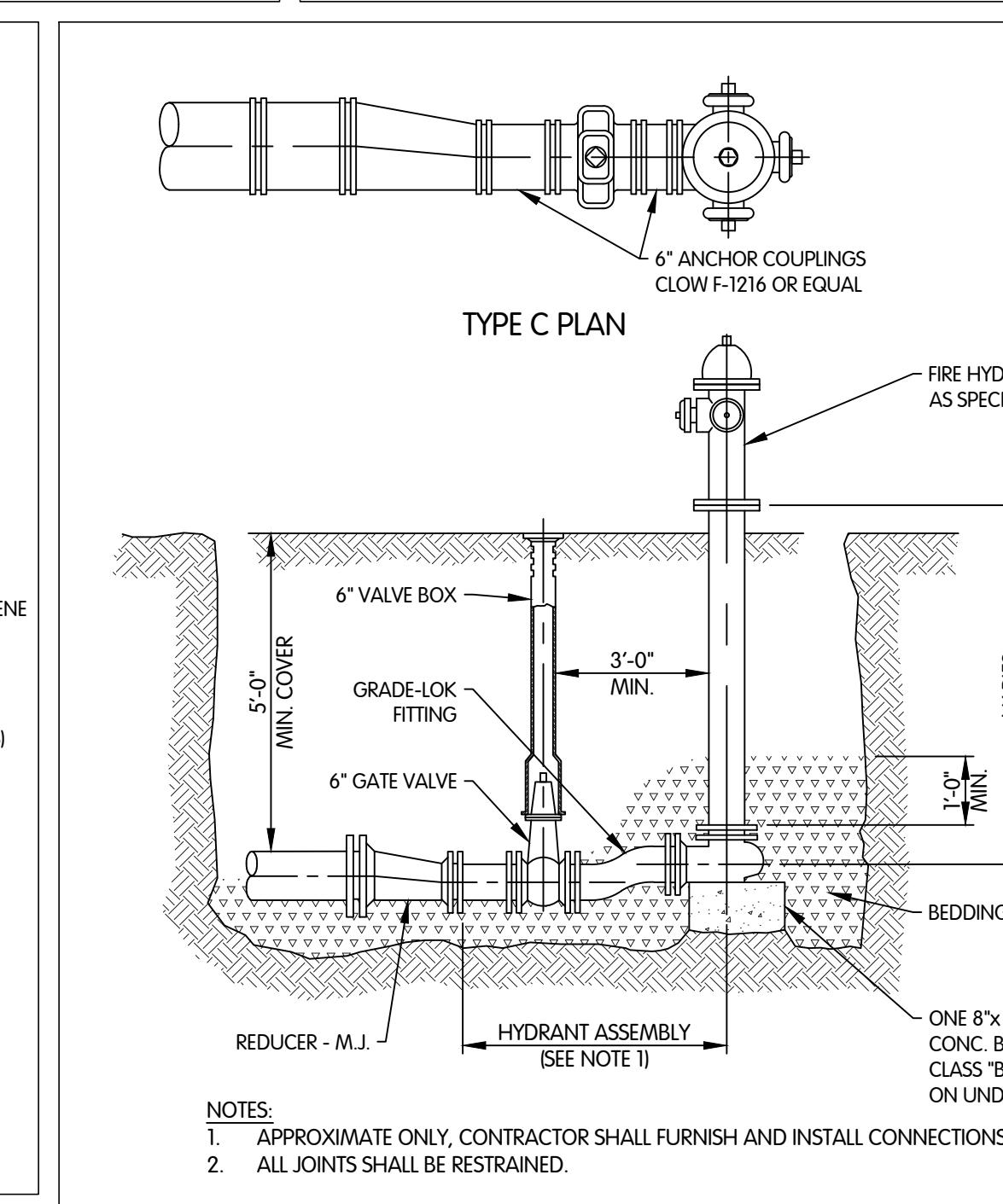
WATER VALVE MANHOLE



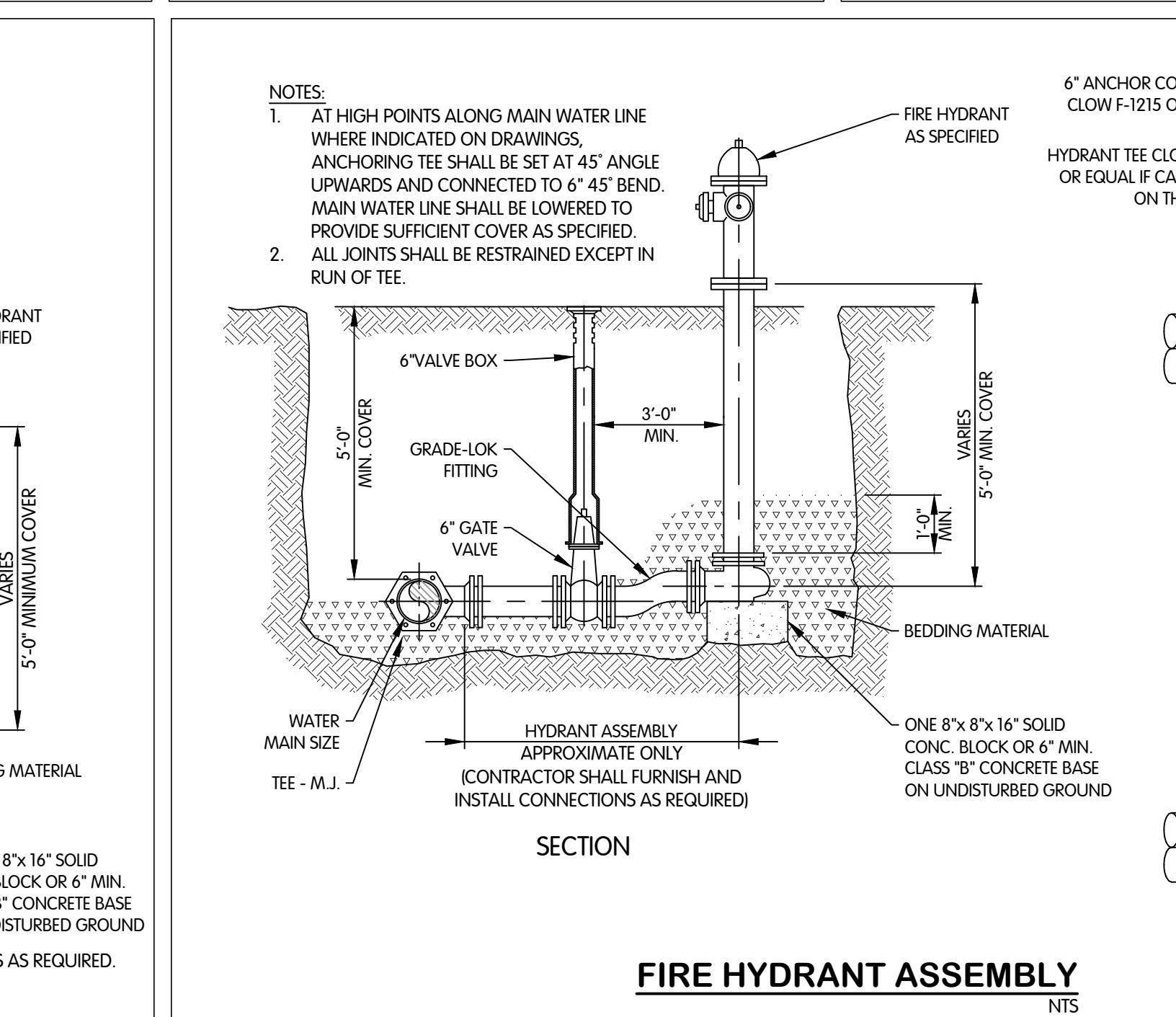
VALVE MANHOLE ABANDONMENT DETAIL



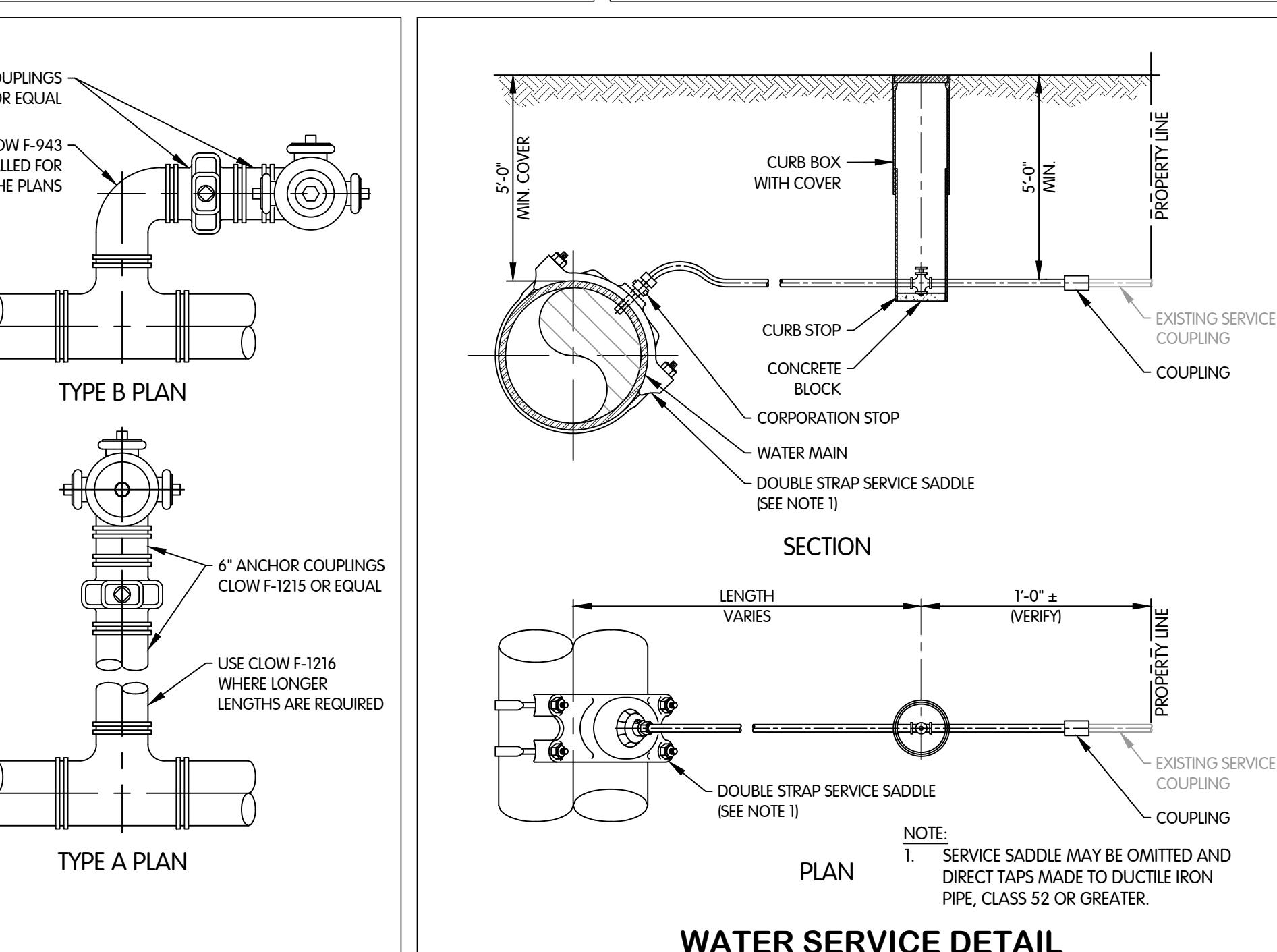
POST HYDRANT DETAIL



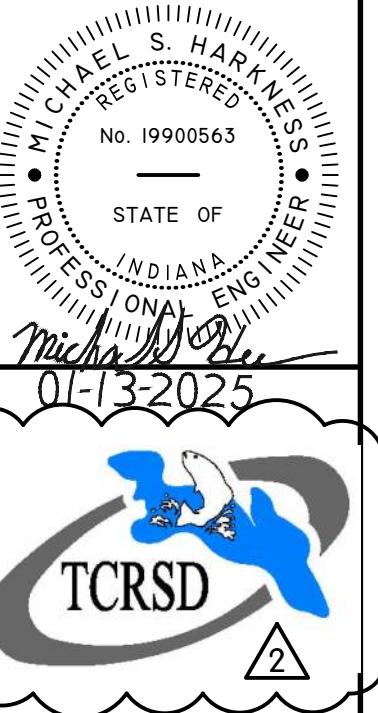
FIRE HYDRANT ASSEMBLY



FIRE HYDRANT ASSEMBLY

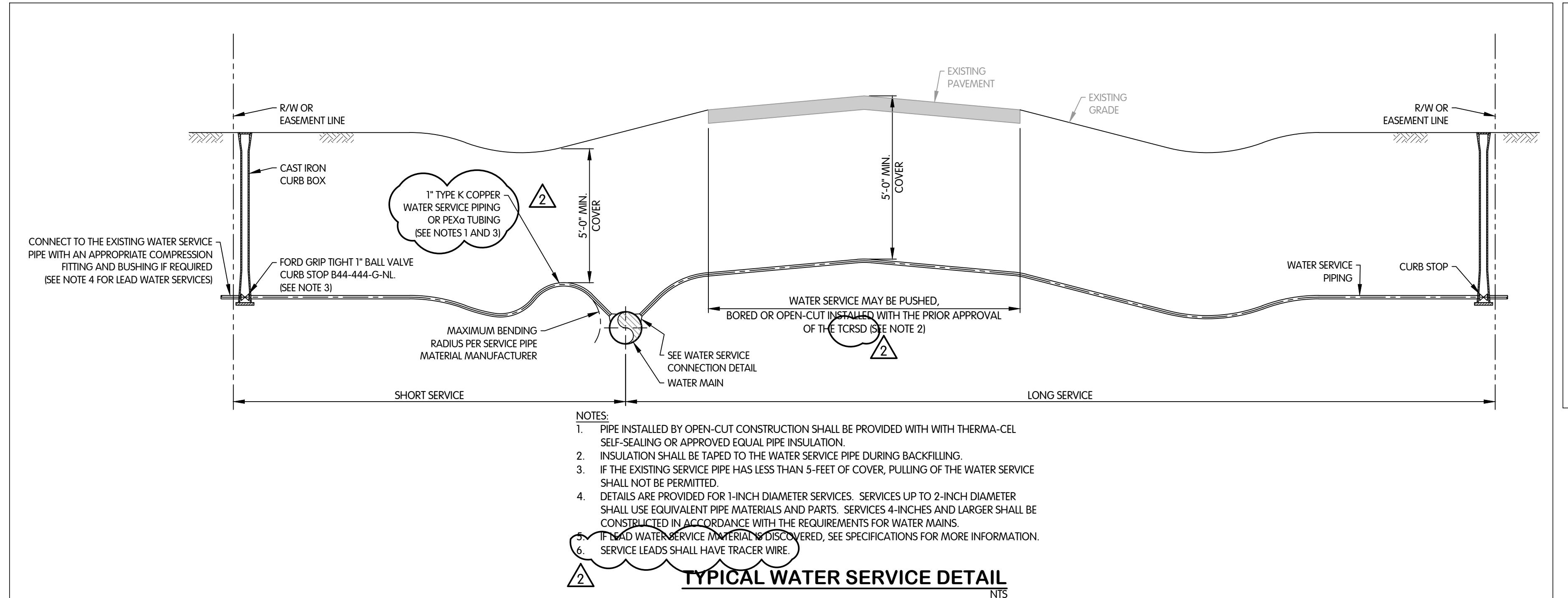


WATER SERVICE DETAIL



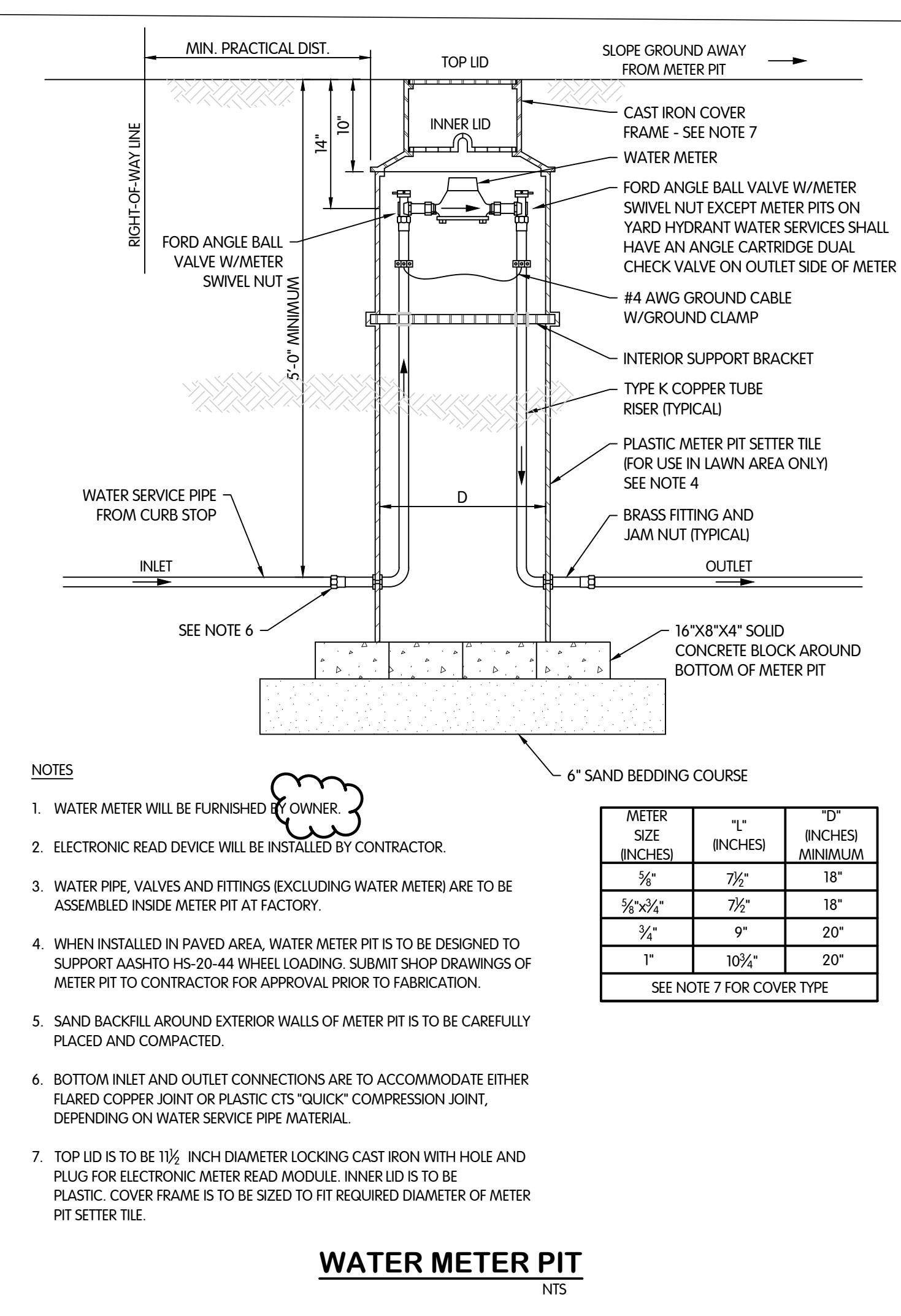
CIVIL WATER SERVICE AND ABANDONMENT DETAILS

TURKEY CREEK REGIONAL SEWER DISTRICT
FASCINATION PLACE WATER MAIN IMPROVEMENTS



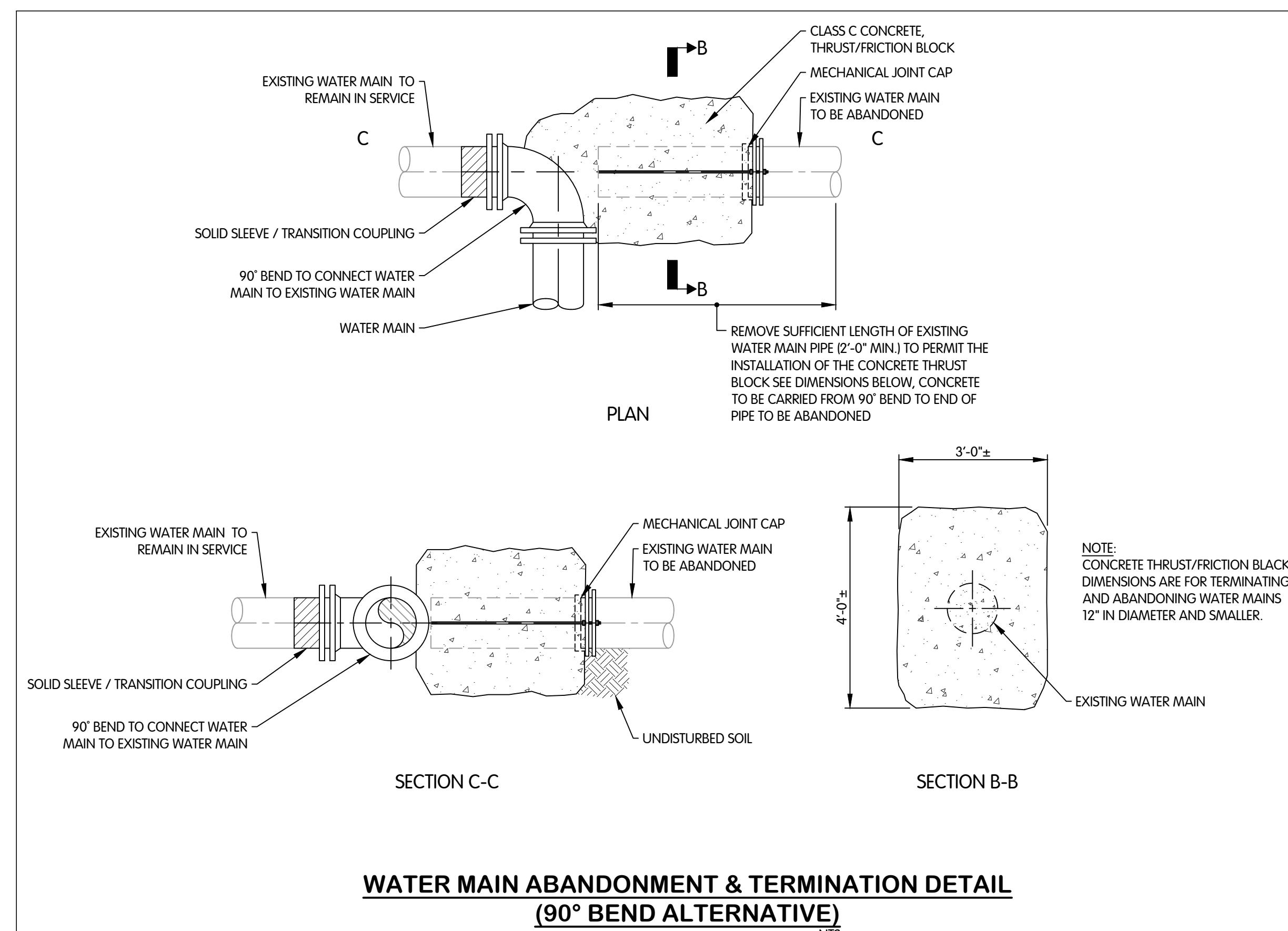
WATER MAIN SERVICE CONNECTION DETAIL

NOTES:
1. REPAIR ANY DAMAGE TO EXISTING POLYWRAP FOR DUCTILE IRON WATER MAINS AS REQUIRED.
2. DETAILS ARE PROVIDED FOR 1-INCH DIAMETER SERVICES. SERVICES UP TO 2-INCH DIAMETER SHALL USE EQUIVALENT PIPE MATERIALS AND PARTS. SERVICES 4-INCHES AND LARGER SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS FOR WATER MAINS.



WATER METER PIT

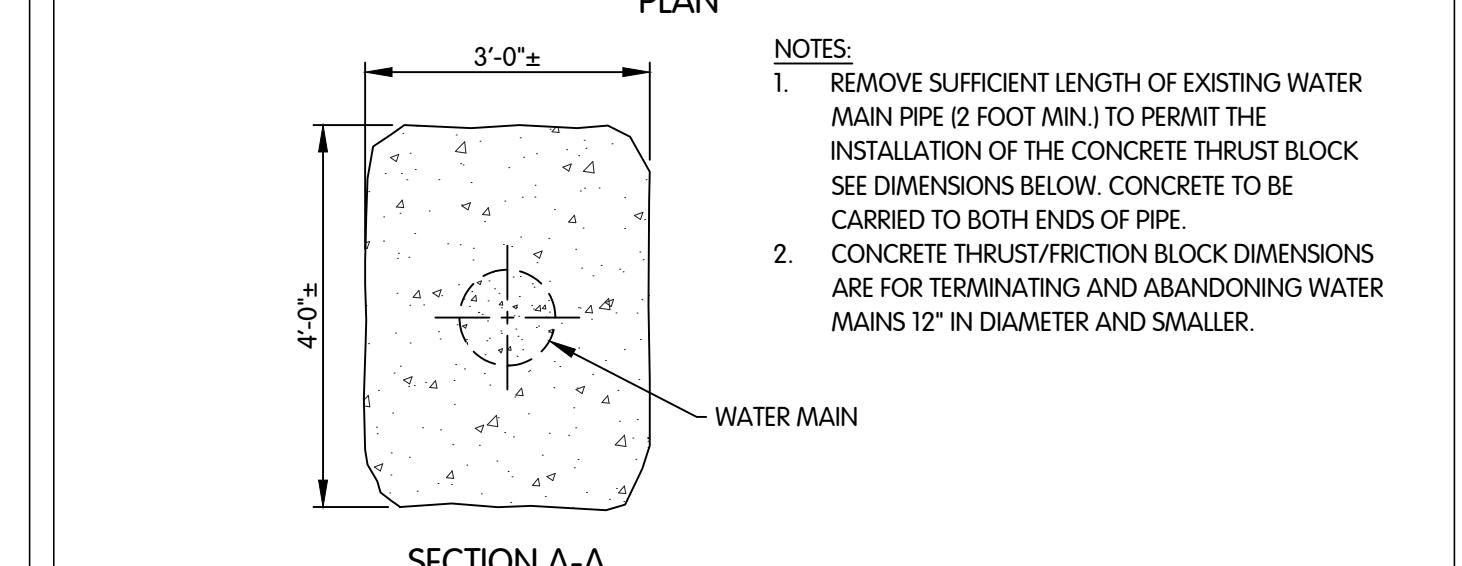
NTS



WATER MAIN ABANDONMENT & TERMINATION DETAIL (90° BEND ALTERNATIVE)

WATER MAIN TERMINATION AND ABANDONMENT DETAIL

NOTES:
1. REMOVE SUFFICIENT LENGTH OF EXISTING WATER MAIN PIPE (2 FOOT MIN.) TO PERMIT THE INSTALLATION OF THE CONCRETE THRUST BLOCK SEE DIMENSIONS BELOW. CONCRETE TO BE CARRIED TO BOTH ENDS OF PIPE.
2. CONCRETE THRUST/FRiction BLOCK DIMENSIONS ARE FOR TERMINATING AND ABANDONING WATER MAINS 12" IN DIAMETER AND SMALLER.



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Jones & Henry
Engineers, Ltd.



Fluid thinking®
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JOB NO. 868-8305.400

SCALE AS INDICATED

THIS LINE SCALES 1' WHEN PLOTTED TO NOTED SCALE

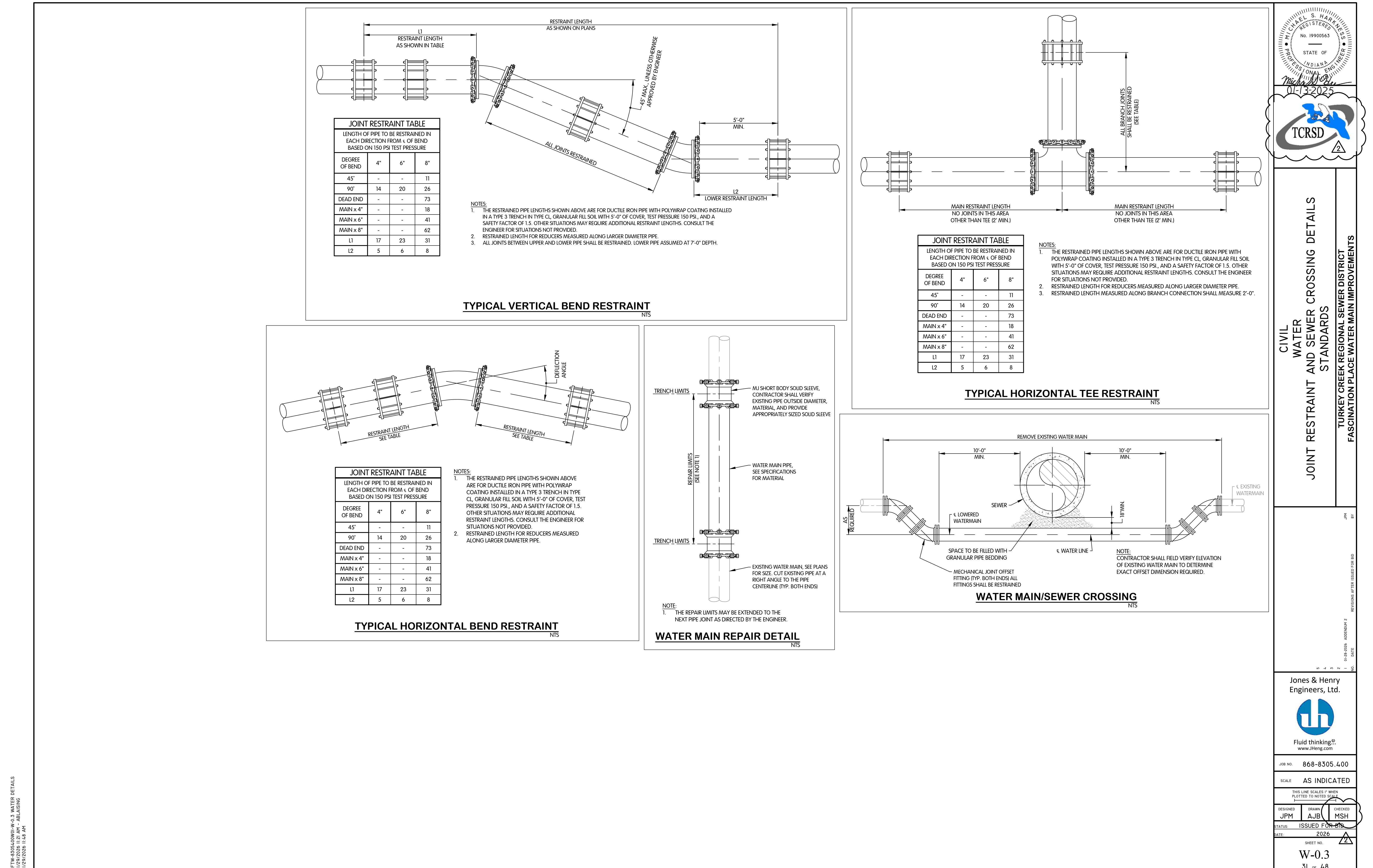
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JPM AJB MSH

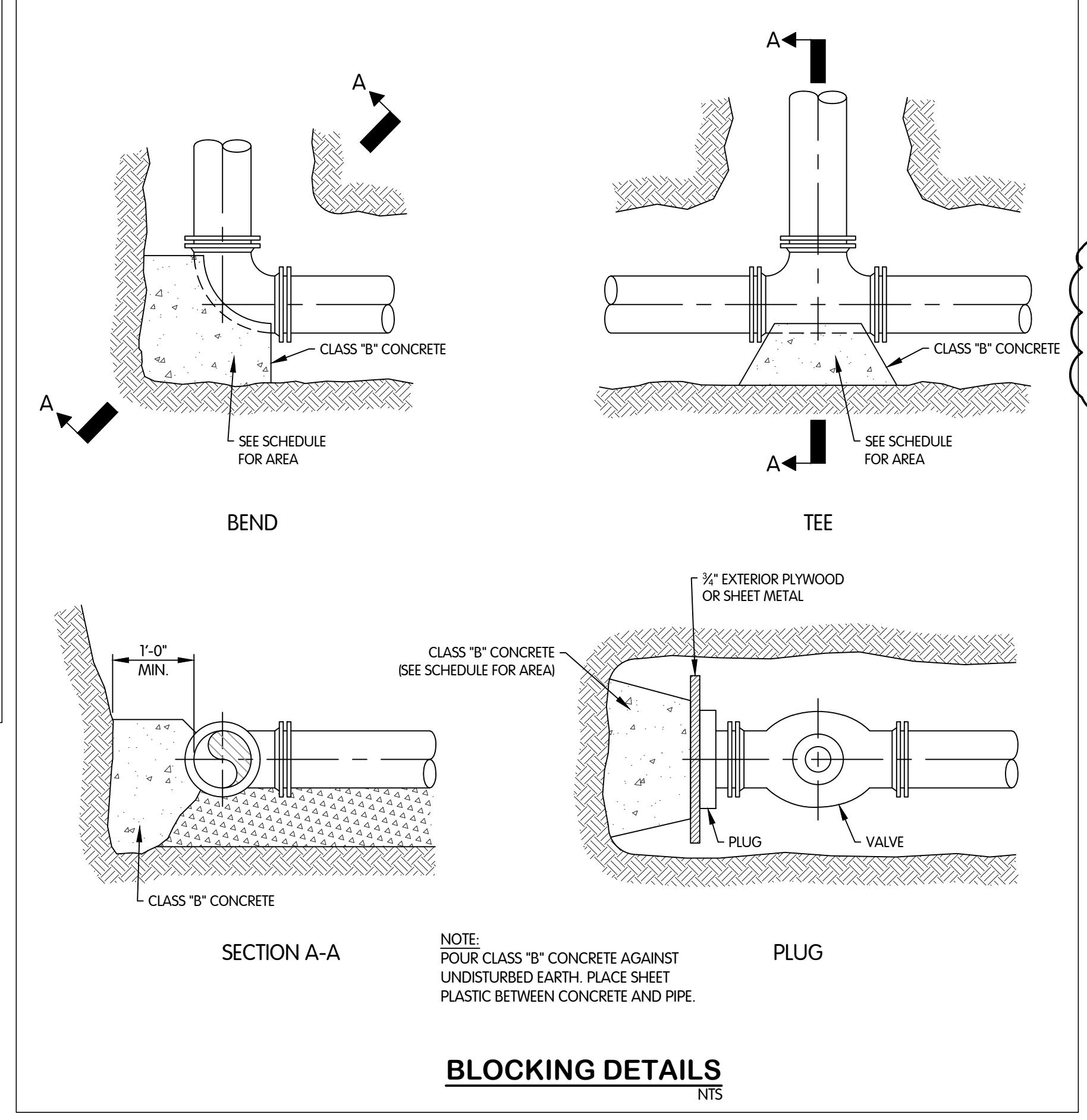
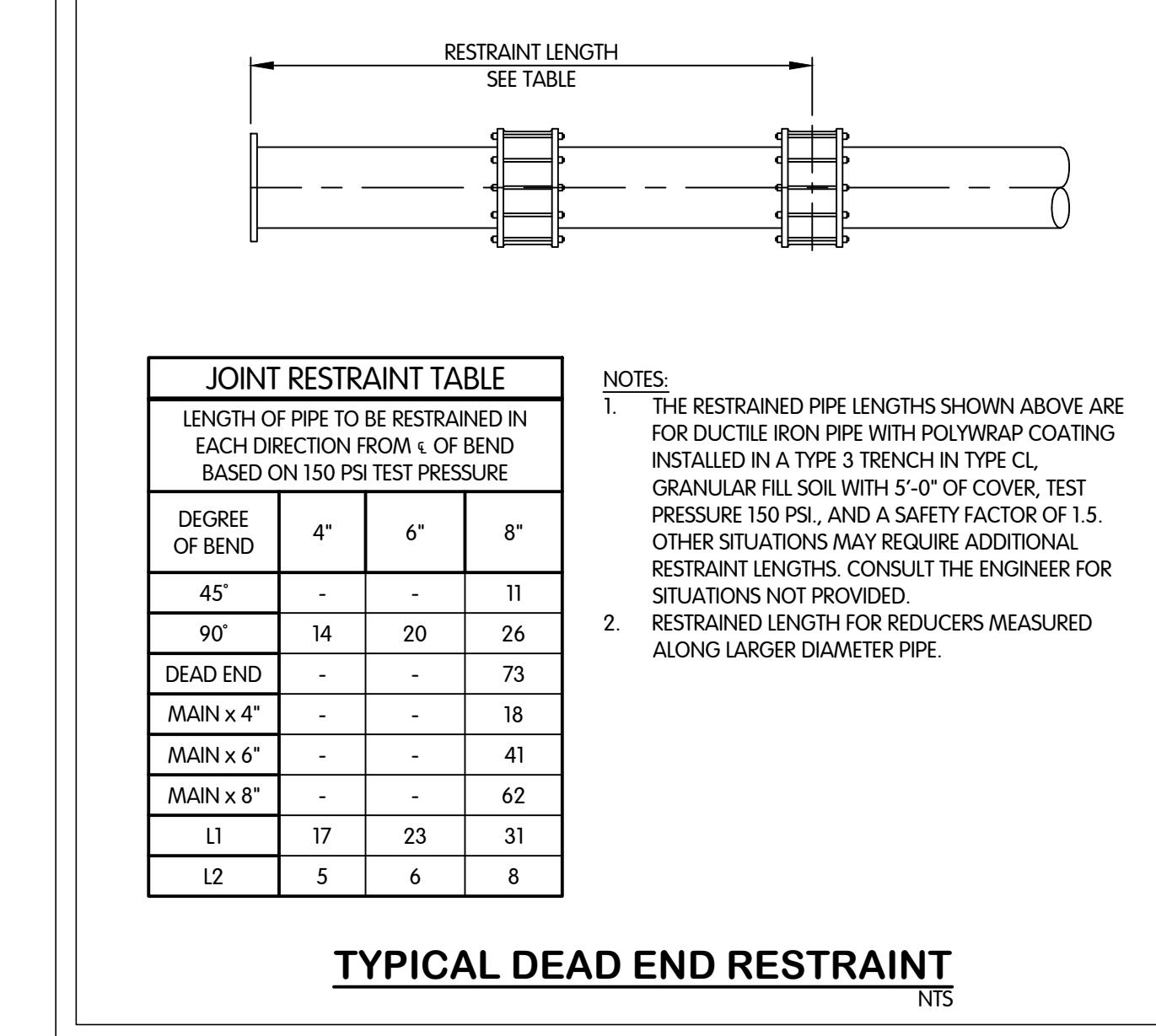
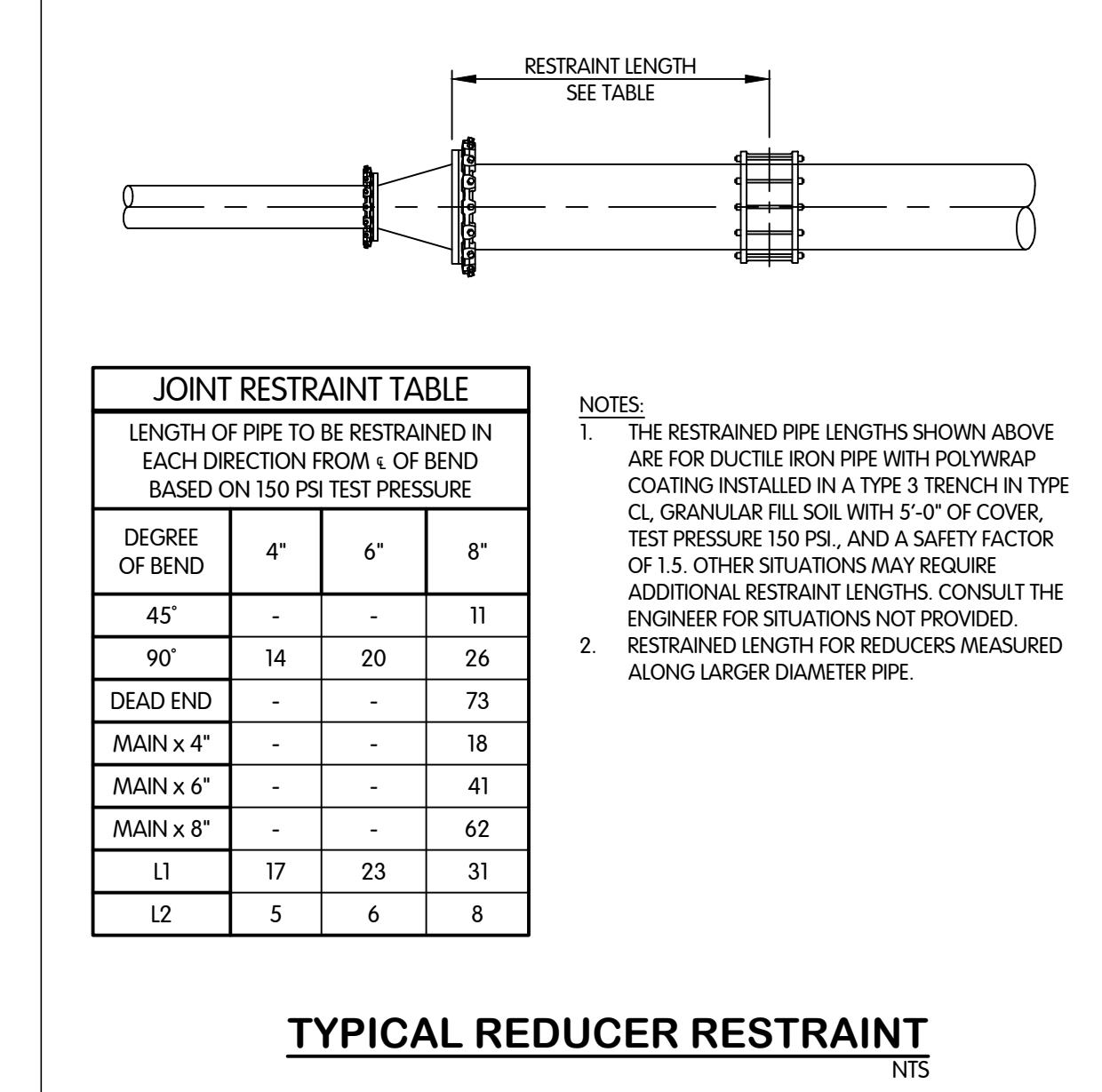
STATUS ISSUED FOR BID

DATE 2026

SHEET NO. W-0.2

30 of 48





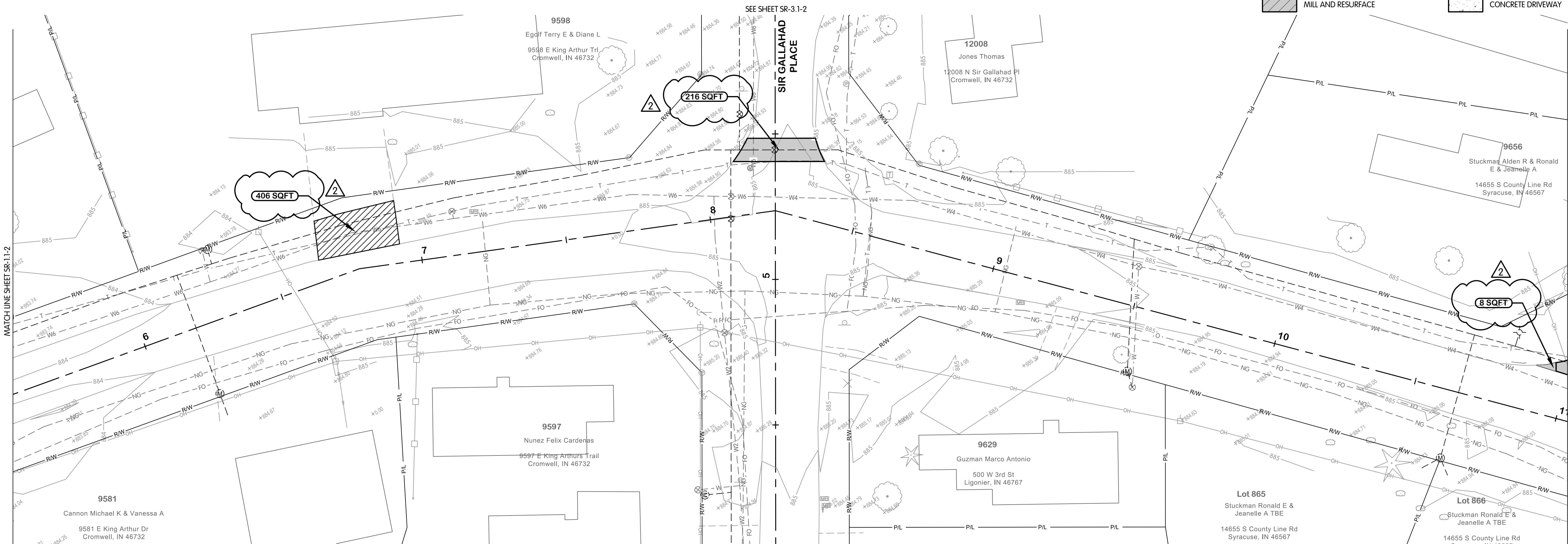
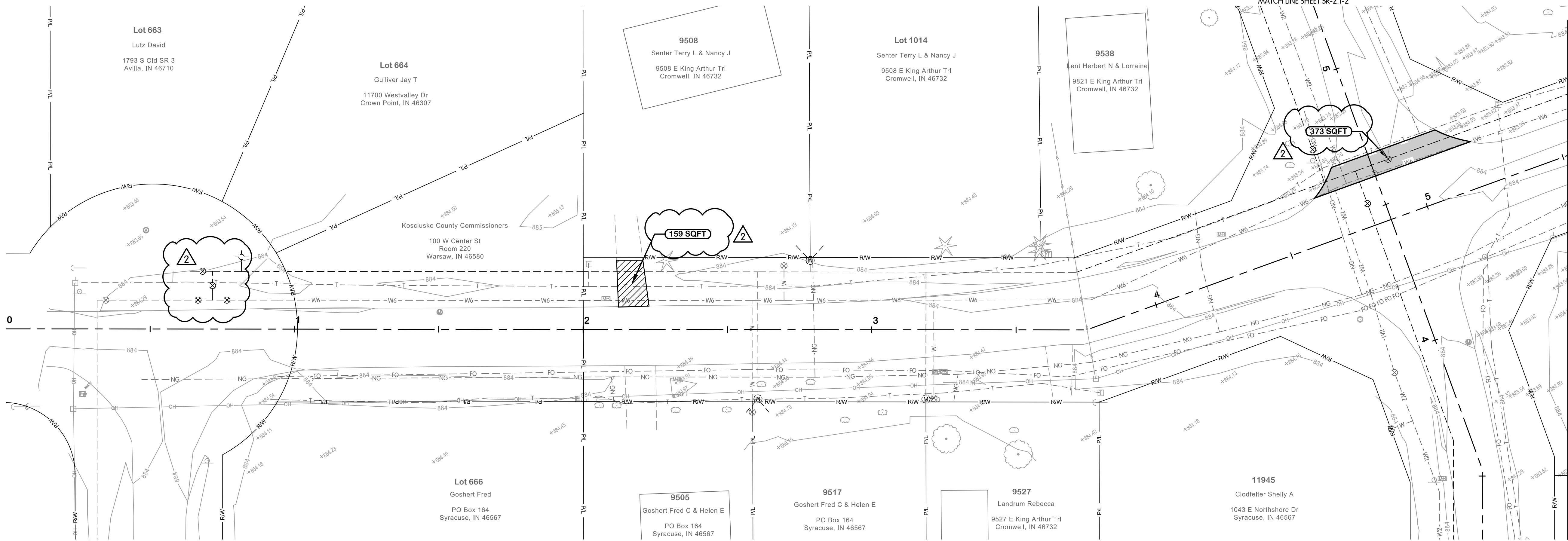
CIVIL WATER JOINT RESTRAINT AND BLOCKING DETAILS TRENCH DETAILS STANDARDS								
TURKEY CREEK REGIONAL SEWER DISTRICT FASCINATION PLACE WATER MAIN IMPROVEMENTS								
<p style="text-align: right;">JPM DATE 01-13-2025</p> <p style="text-align: right;">Michael S. Harka, P.E. No. 19900563 STATE OF INDIANA NATIONAL ENGINEER</p> <p style="text-align: right;">TCRSD</p>								
<p style="text-align: right;">Fluid thinking[®] www.JHeng.com</p> <p style="text-align: right;">Jones & Henry Engineers, Ltd.</p> <p style="text-align: right;">1/29/2026 11:48 AM - ABALISING</p>								
<p style="text-align: right;">JOB NO. 868-8305.400</p> <p style="text-align: right;">SCALE AS INDICATED</p> <p style="text-align: right;">THIS LINE SCALES 1" WHEN PLOTTED TO NOTED SCALE</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>DESIGNED JPM</td> <td>DRAWN AJB</td> <td>CHECKED MSH</td> </tr> <tr> <td>STATUS ISSUED FOR BID</td> <td>DATE 2026</td> <td> SHEET NO. 32</td> </tr> </table>			DESIGNED JPM	DRAWN AJB	CHECKED MSH	STATUS ISSUED FOR BID	DATE 2026	SHEET NO. 32
DESIGNED JPM	DRAWN AJB	CHECKED MSH						
STATUS ISSUED FOR BID	DATE 2026	SHEET NO. 32						
W-0.4								

Z
Z

MICHAEL S. SHARKA
REGISTERED
STATE OF
INDIANA
PROFESSIONAL
ENGINEER
01-13-2025

TCRSD

KING ARTHUR TRAIL
SURFACE RESTORATION
PLAN
STA. 0+00 TO II+00
TURKEY CREEK REGIONAL SEWER DISTRICT
FASCINATION PLACE WATER MAIN IMPROVEMENTS

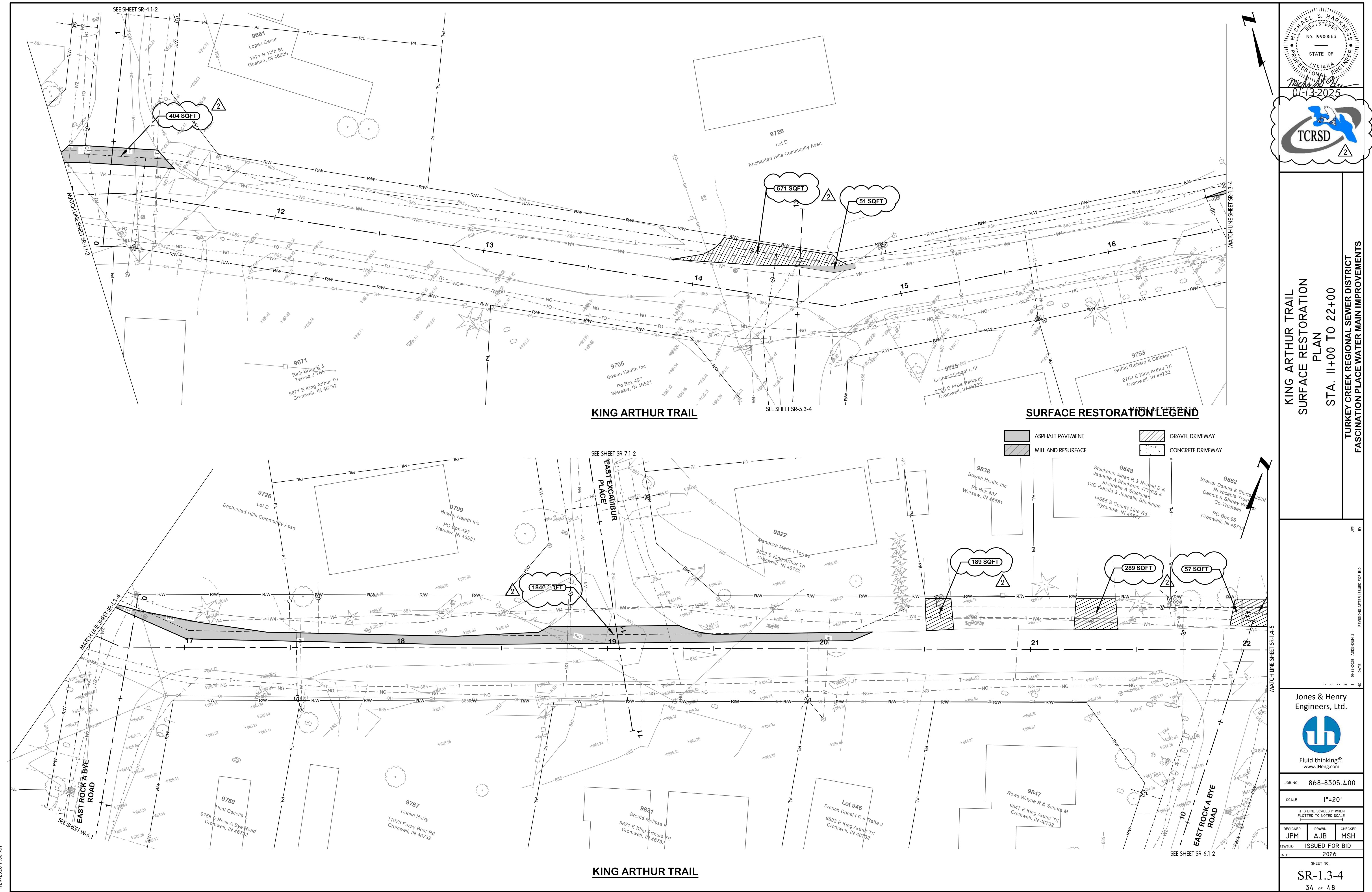


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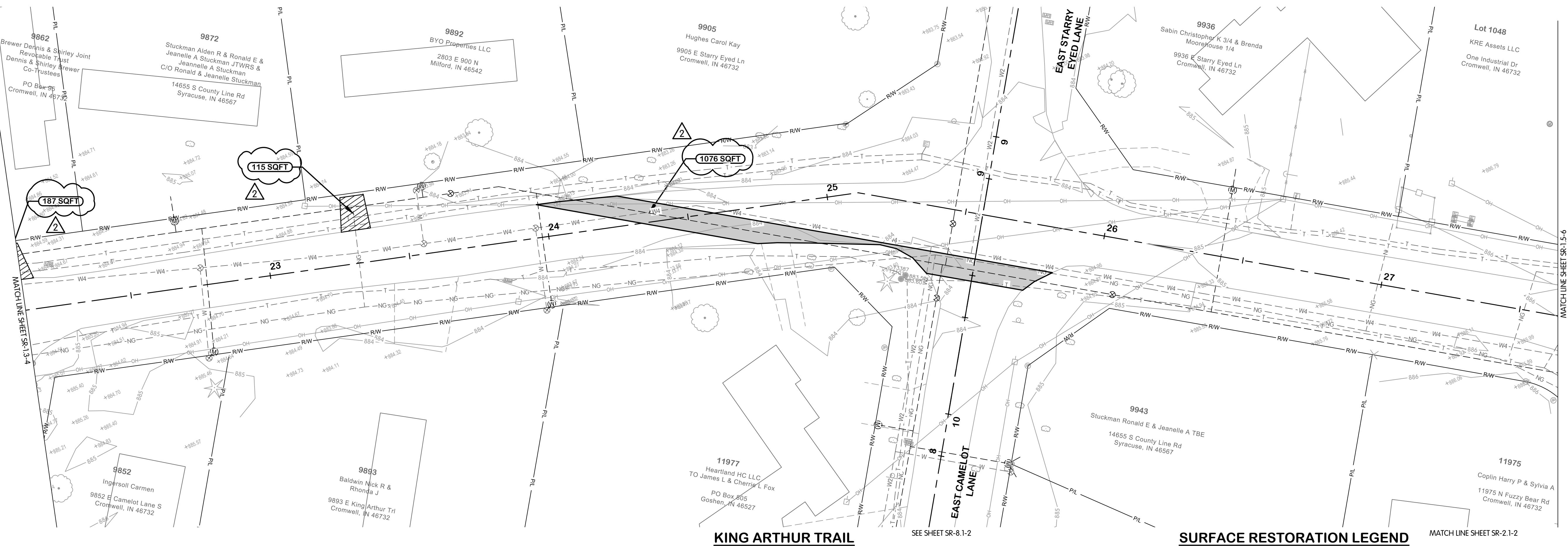
Jones & Henry
Engineers, Ltd.

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JOB NO. 868-8305.400
SCALE 1"=20'
THIS LINE SCALES 1" WHEN PLOTTED TO NOTED SCALE
DESIGNED JPM DRAWN AJB CHECKED MSH
STATUS ISSUED FOR BID
DATE 2026
SHEET NO. SR1.1-2
33 of 48

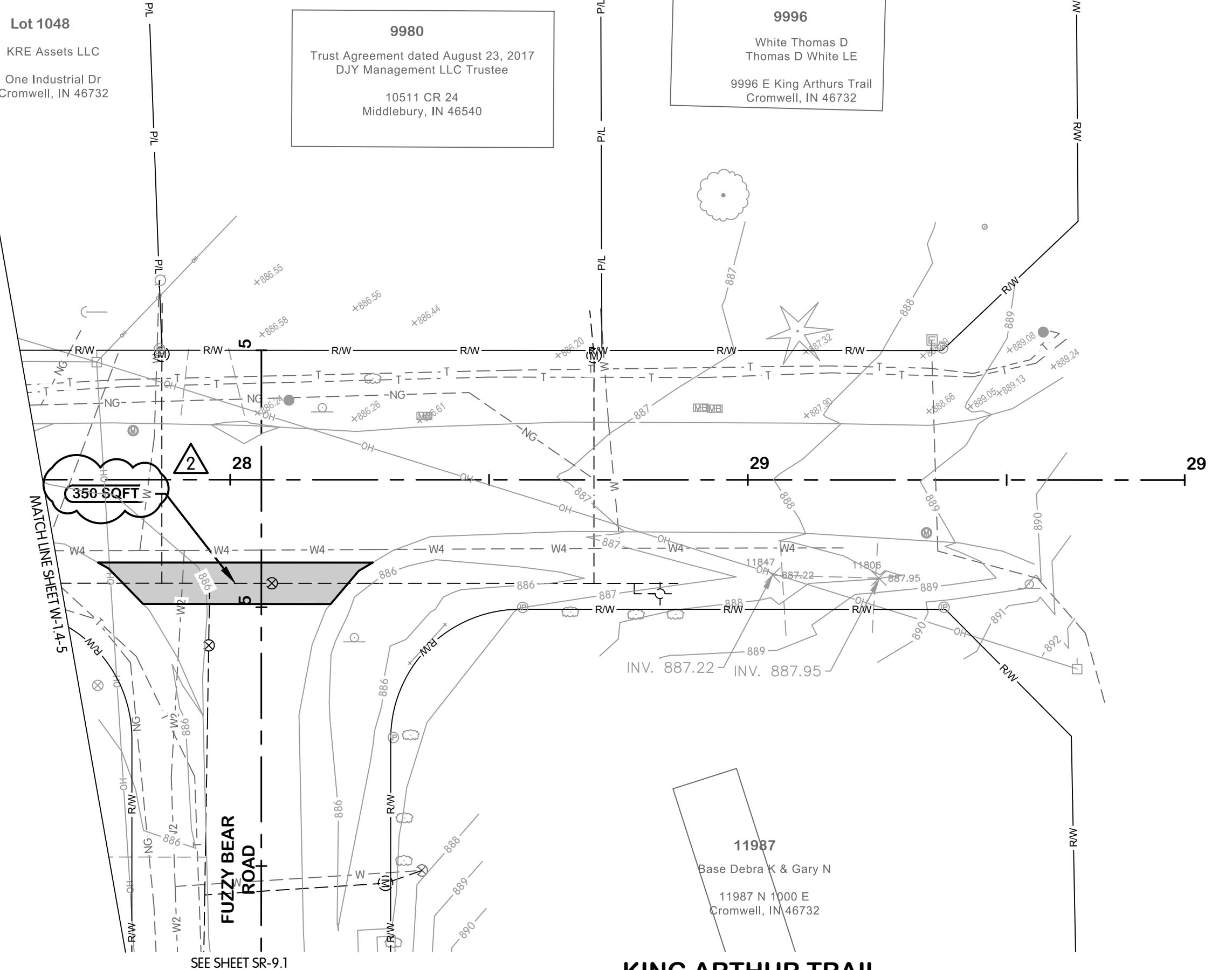


FTTW-8305400SRI-SR-I.3-4
1/29/2026 1:26 AM - ABLAISING
1/29/2026 1:50 AM



KING ARTHUR TRAIL

SURFACE RESTORATION LEGEND



KING ARTHUR TRAIL

KING ARTHUR TRAIL SURFACE RESTORATION PLAN STA. 22+00 TO 30+00
TURKEY CREEK REGIONAL SEWER DISTRICT FASCINATION PLACE WATER MAIN IMPROVEMENTS

Jones & Henry Engineers, Ltd.



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www.JHeng.com

JOB NO. 868-8305.400

SCALE 1"=20'

THIS LINE SCALES 1" WHEN PLOTTED TO NOTED SCALE

DESIGNED DRAWN CHECKED

JPM AJB MSH

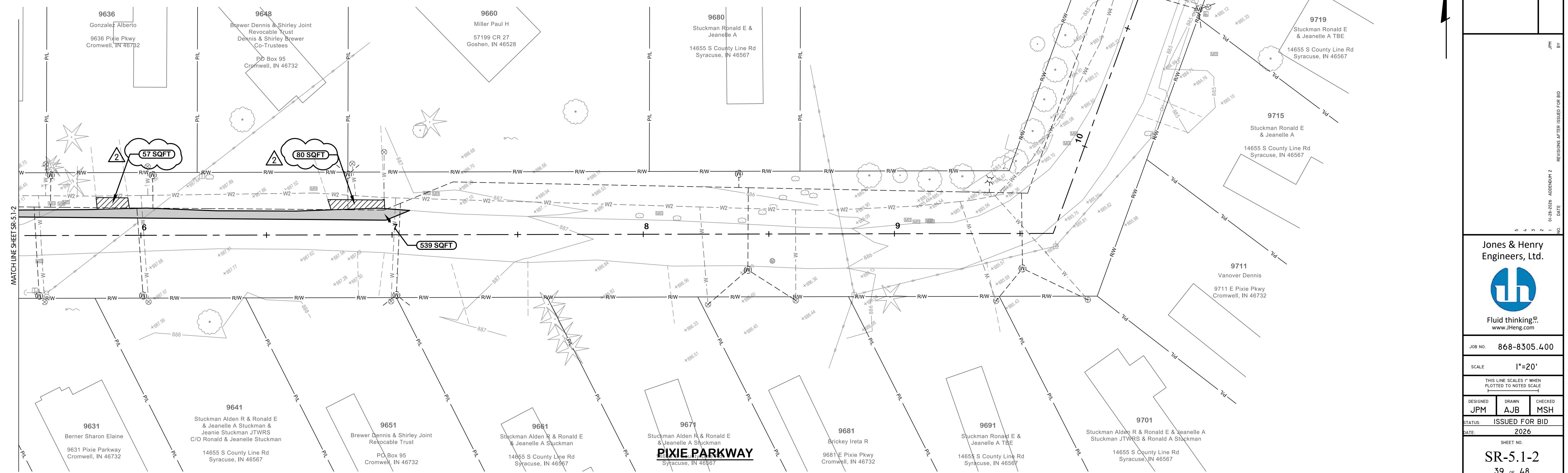
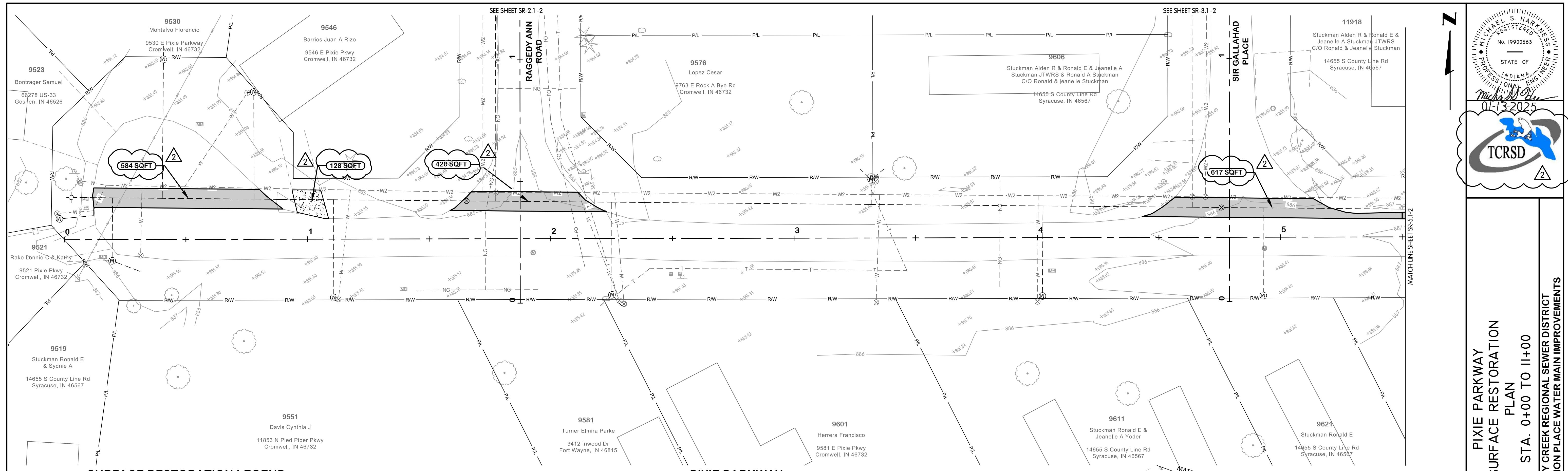
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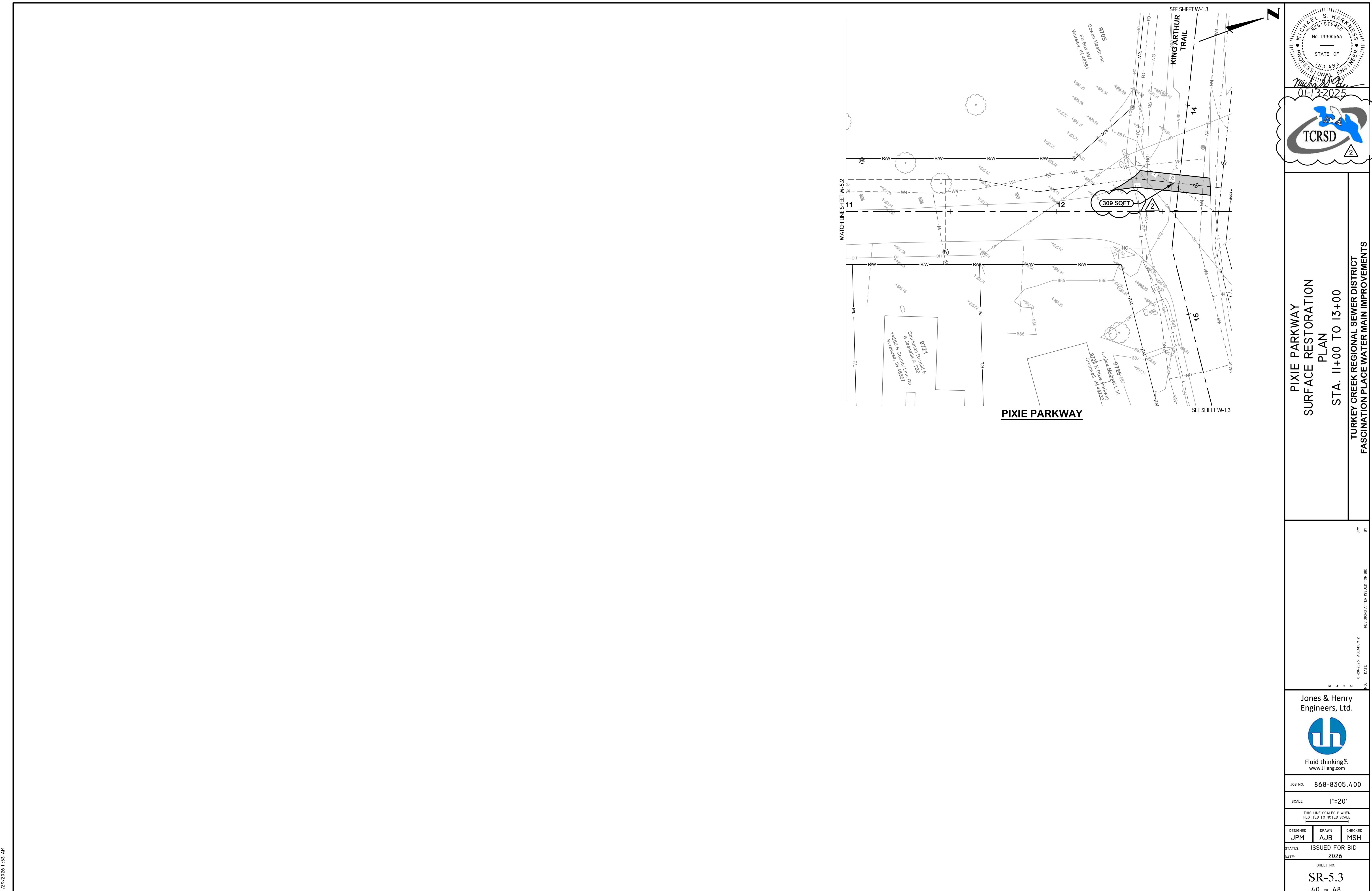
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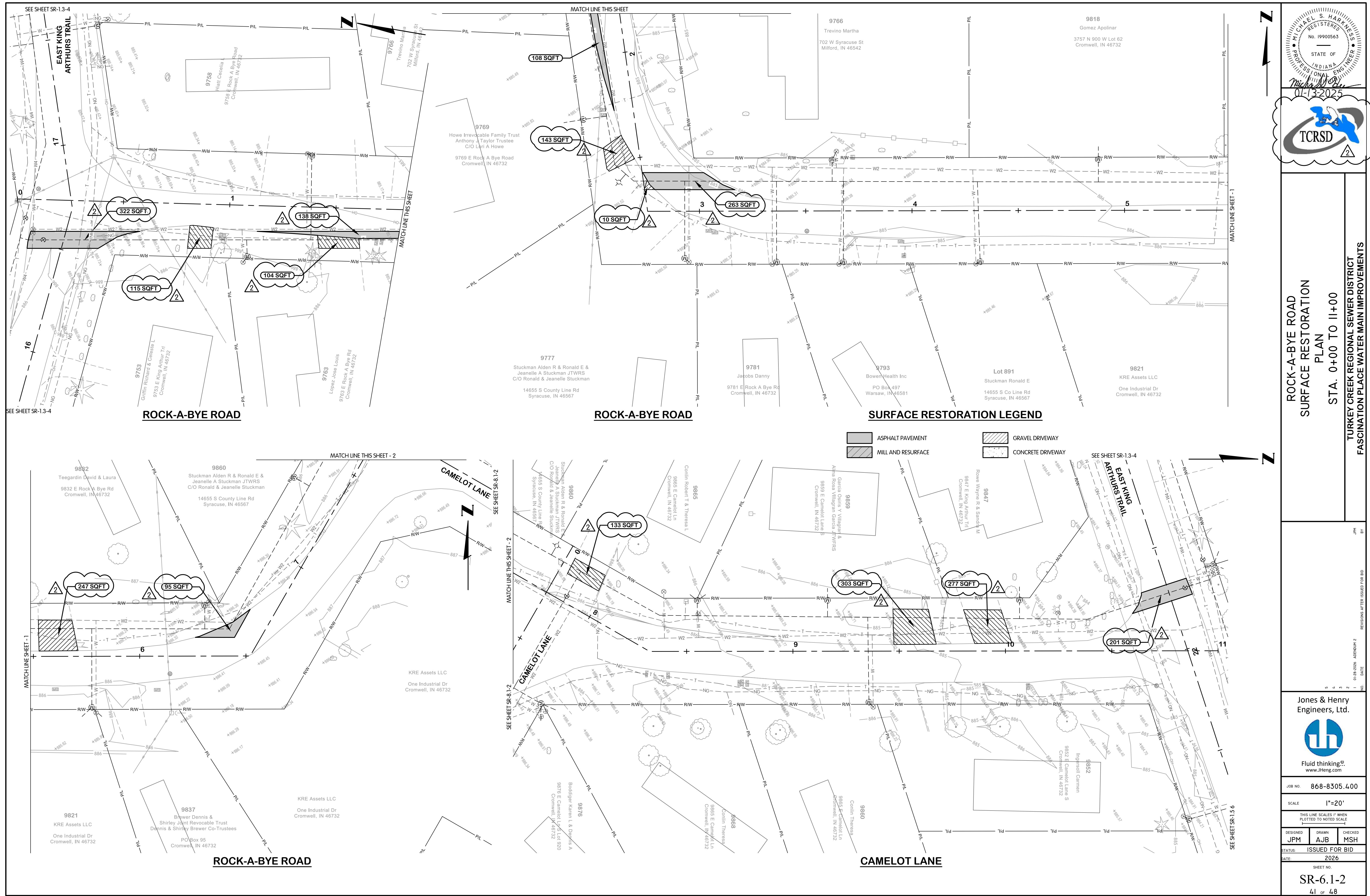
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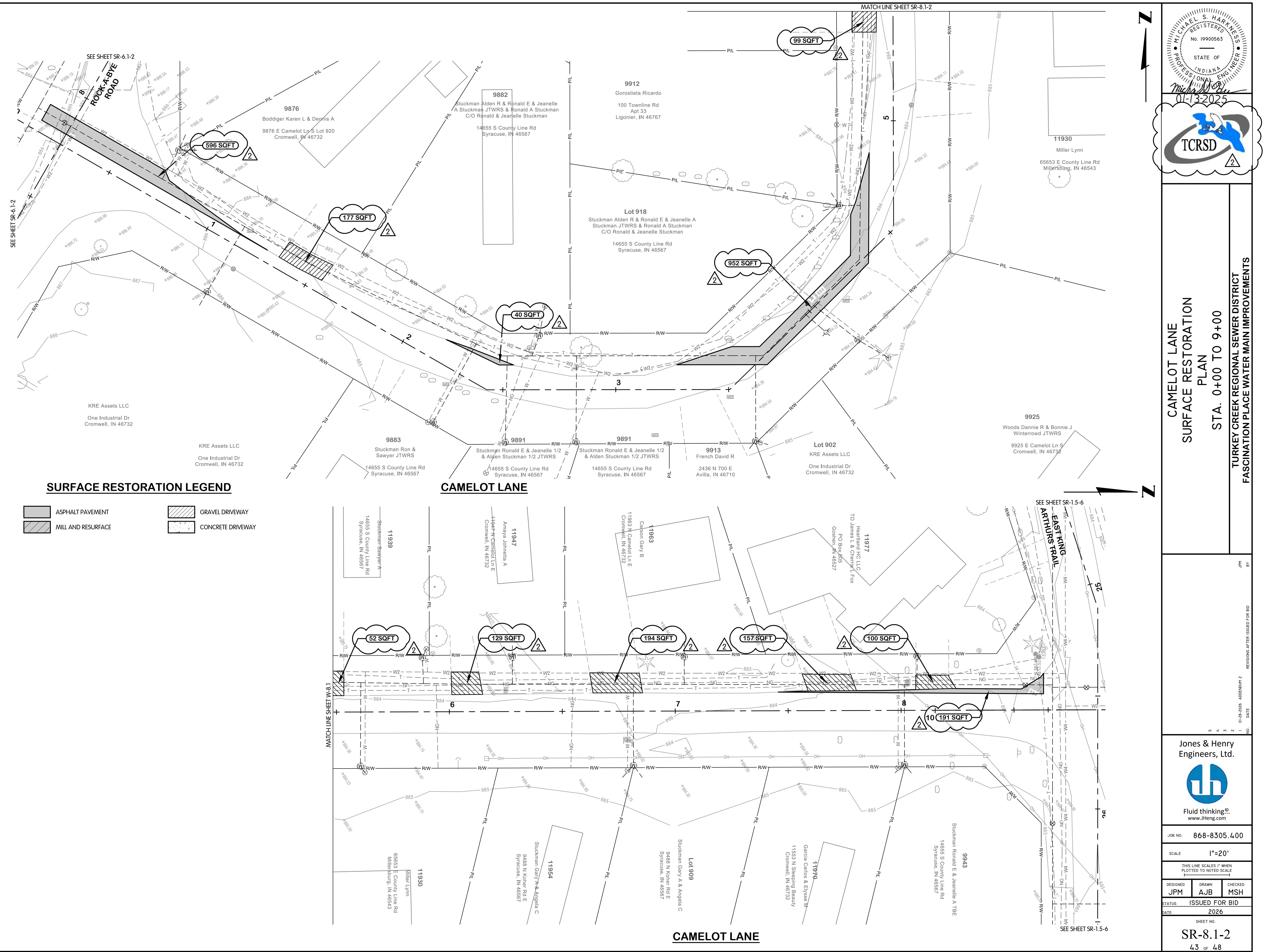
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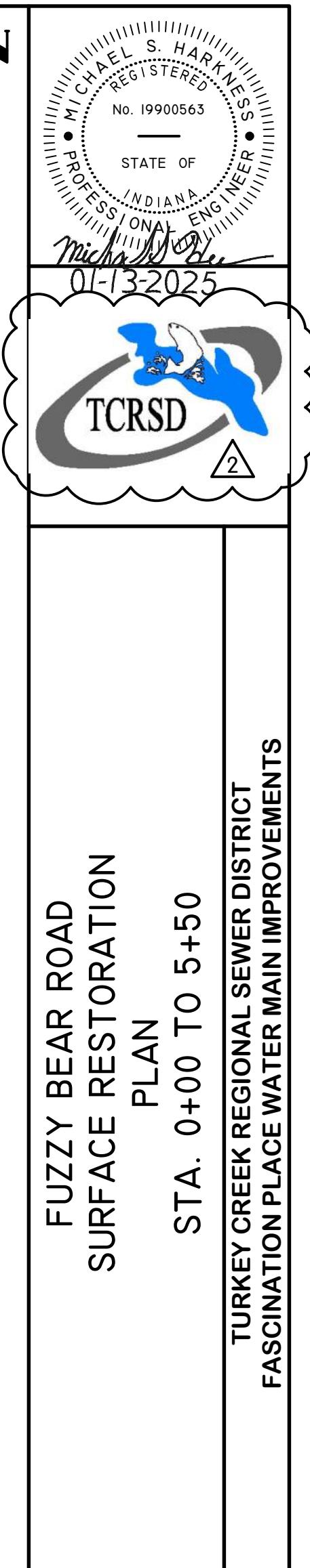
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SCALE 1"=20'

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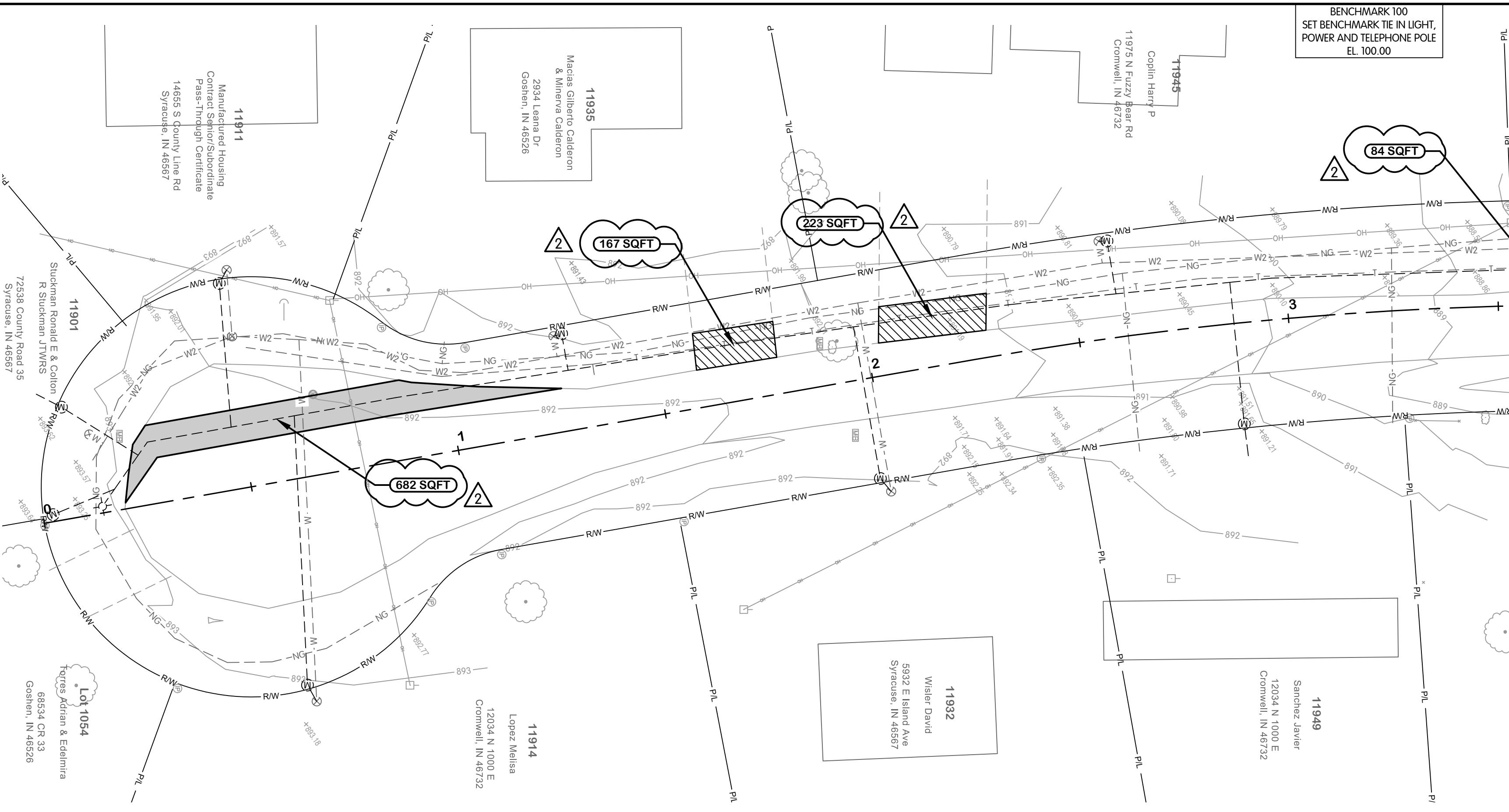
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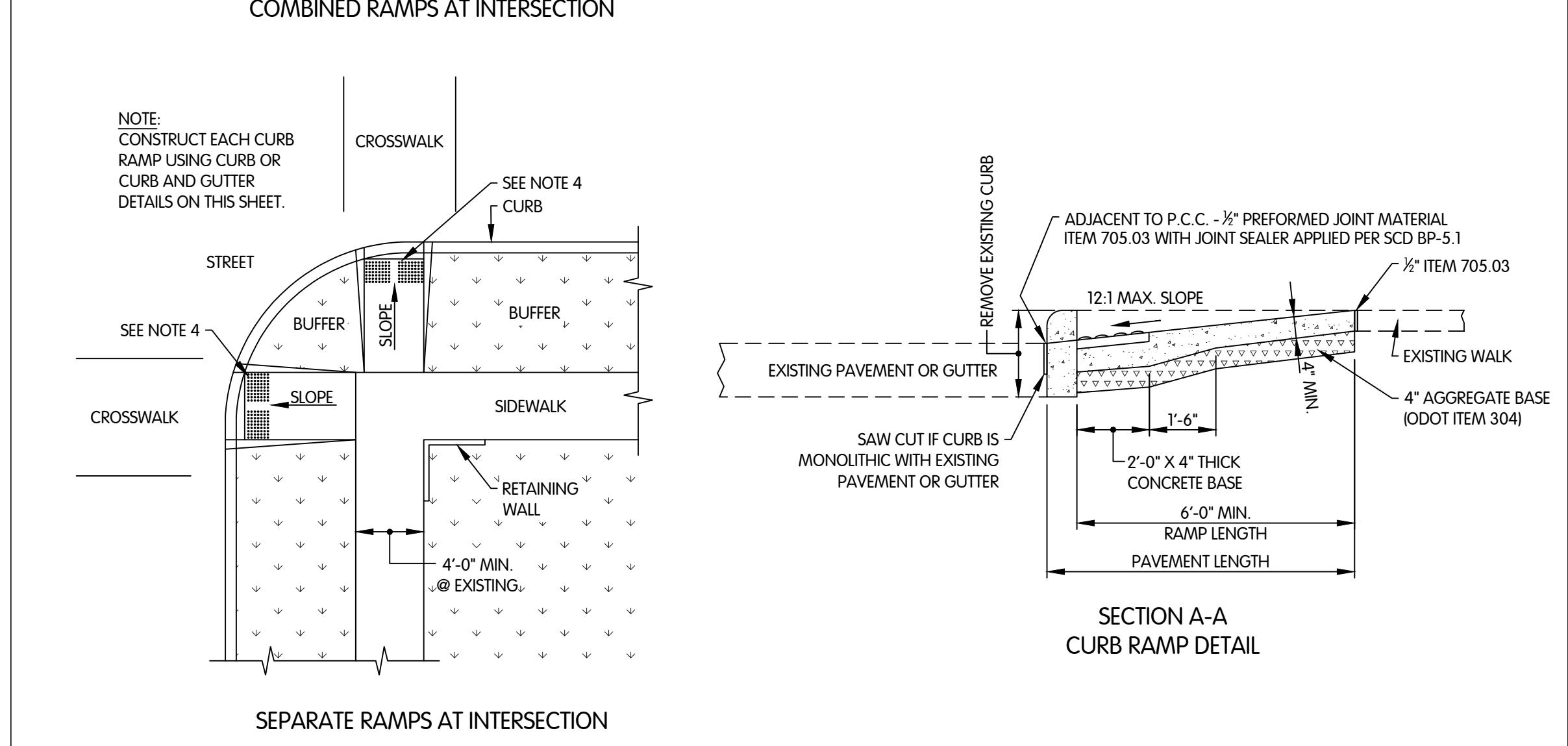
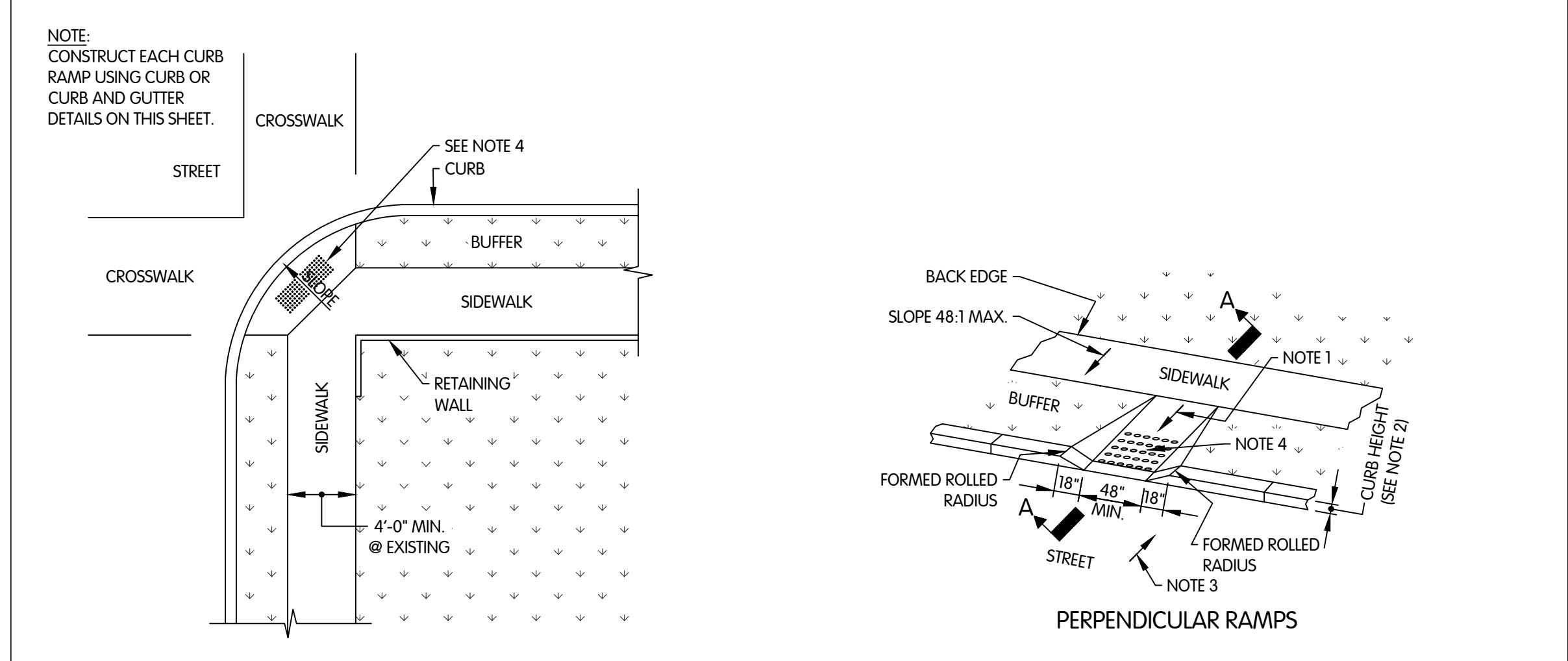
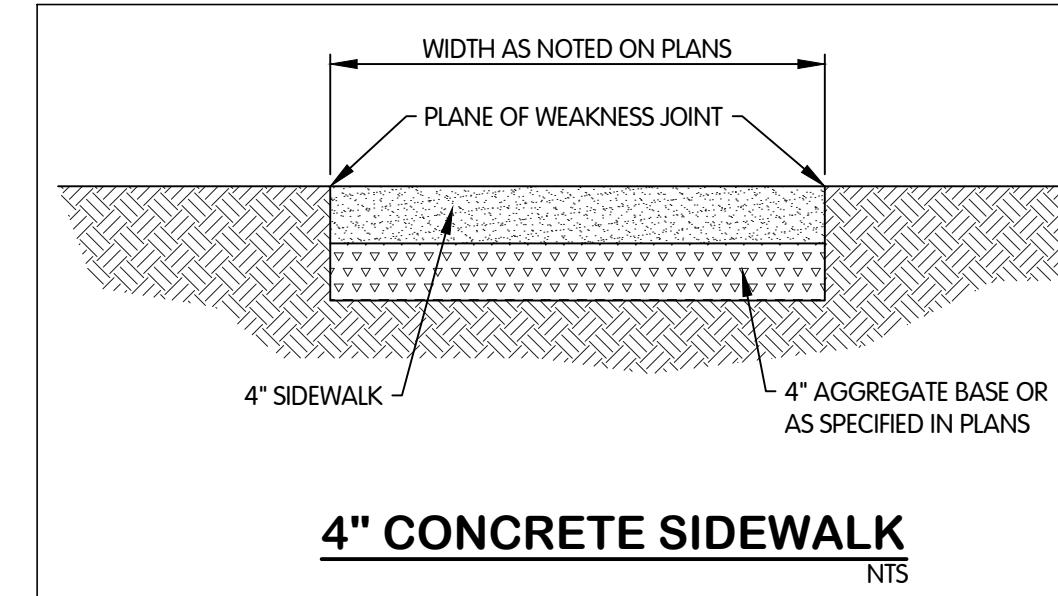
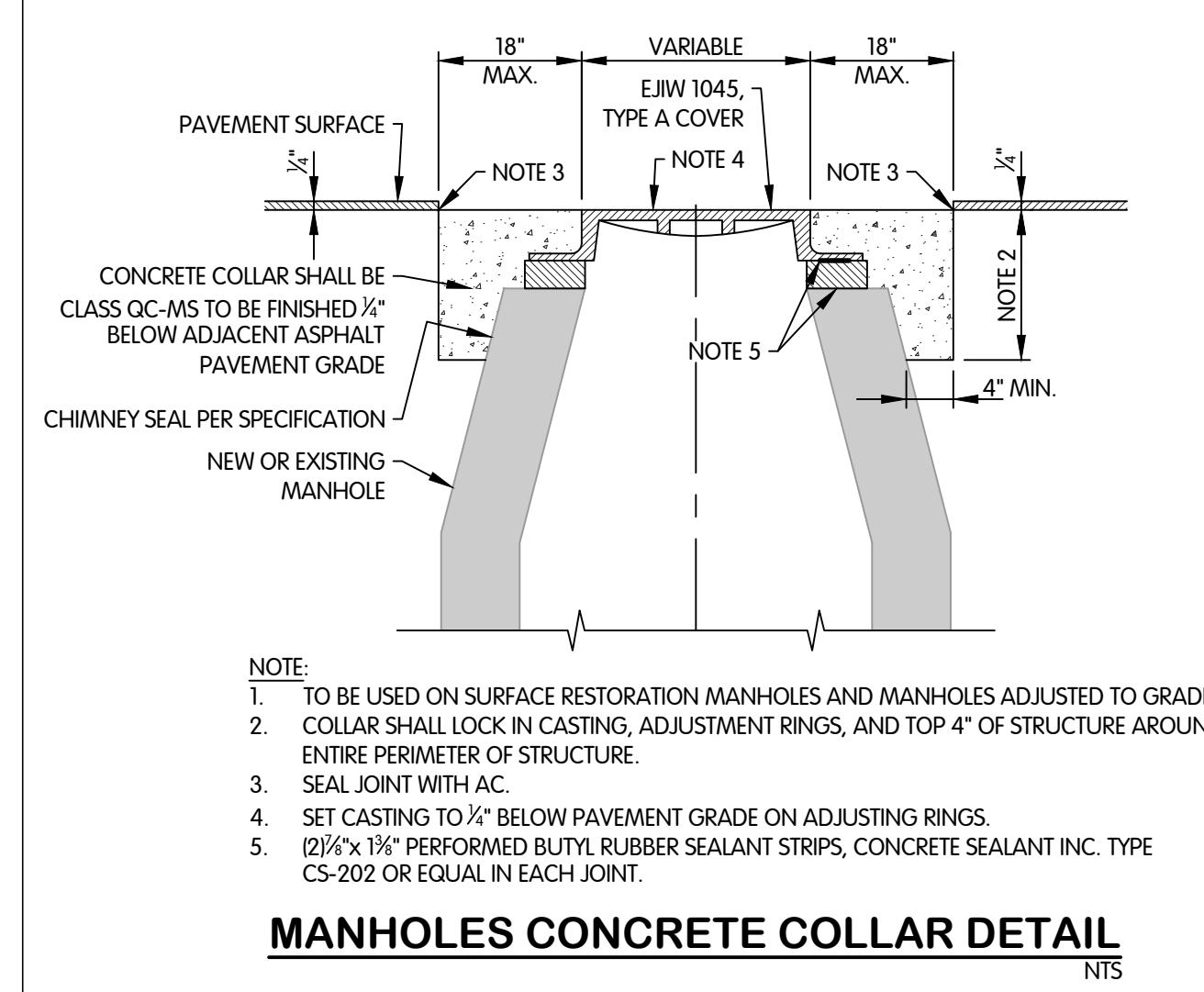
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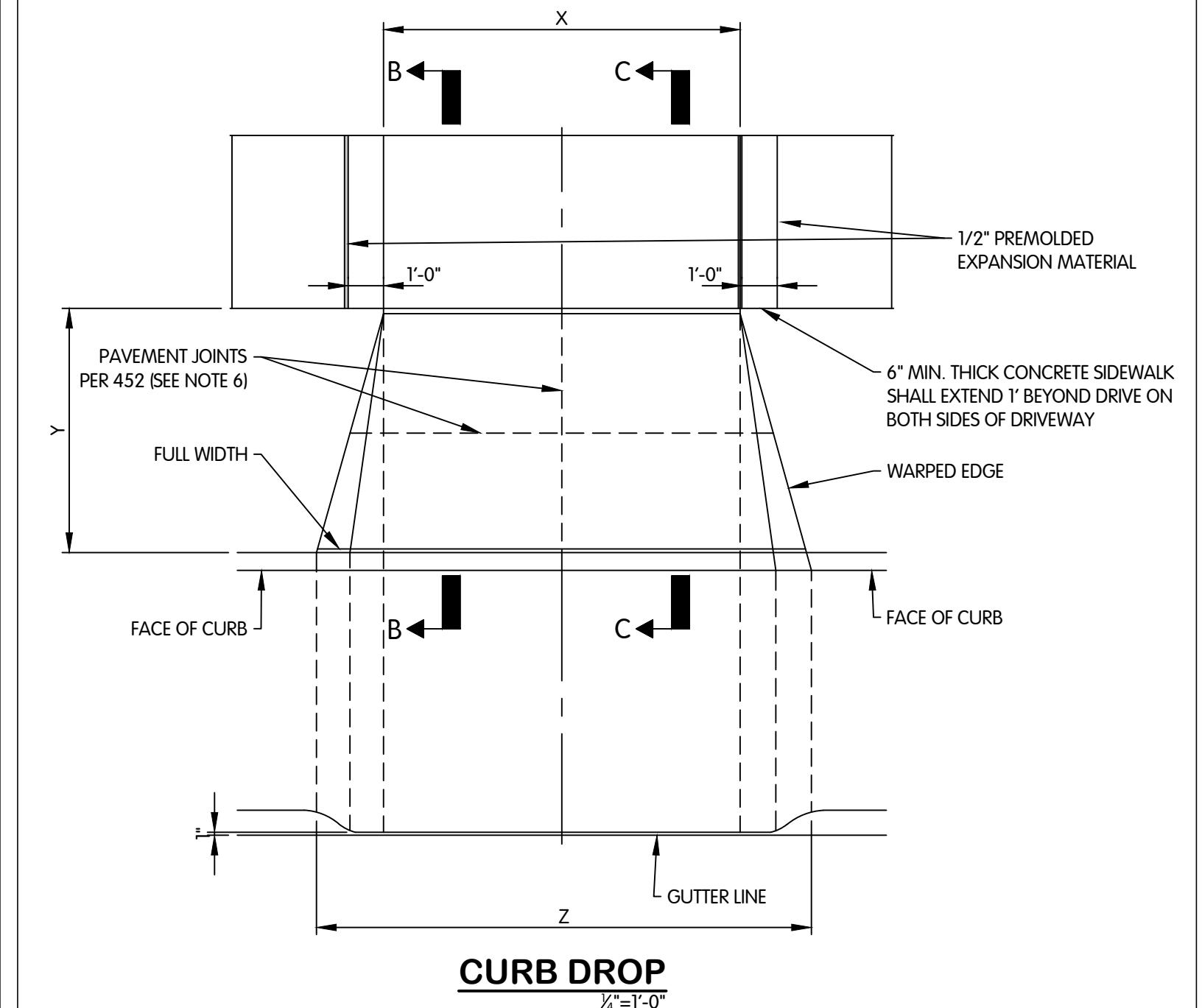
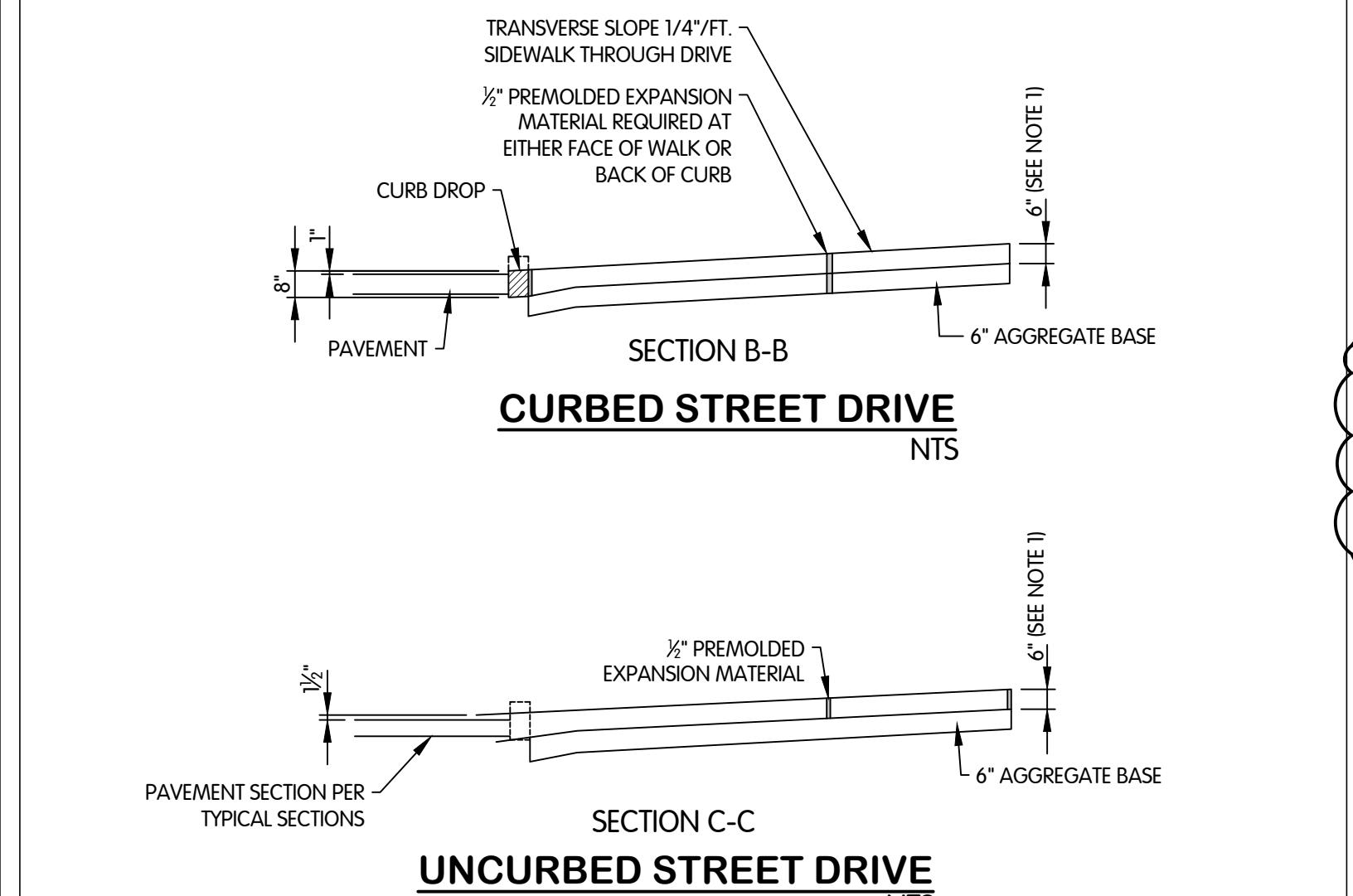




NOTES:

1. THE SLOPE OF THE RAMP TOWARD THE CURB IS PREFERRED TO BE 12:1 OR FLATTER RELATED TO THE HORIZONTAL IN EXISTING SIDEWALKS, IT MAY BE REDUCED AS FOLLOWS:
A) 10:1 FOR A MAXIMUM RISE OF 6"
B) 8:1 FOR A MAXIMUM RISE OF 3"
C) 6:1 OVER A MAXIMUM RISE OF 2'-0" FOR HISTORICAL AREAS WHERE A FLATTER SLOPE IS NOT FEASIBLE.
2. THE MINIMUM LENGTH OF PERPENDICULAR RAMP IS 6' FROM THE BACK OF A 6" CURB AND MAY BE INCREASED WHERE FEASIBLE TO OBTAIN A FLATTER RAMP SLOPE OR TO BETTER BLEND WITH THE WALK CONFIGURATION.
3. GUTTER COUNTER SLOPES AT THE FOOT OF PERPENDICULAR CURB RAMPS SHOULD NOT EXCEED 20:1 OVER A DISTANCE OF 2'-0" FROM THE CURB.
4. DETECTABLE WARNINGS (TRUNCATED DOMES) ARE TO BE INSTALLED IN THE LOCATION SHOWN. DIMENSIONS OF THE DOMES ARE 24" FROM THE BACK OF THE CURB BY THE WIDTH OF THE RAMP.
5. DETECTABLE WARNING DEVICES SHALL BE A CAST-IN-PLACE SYSTEM AS MANUFACTURED BY ARMOR-TILE TACTILE SYSTEMS, ADA SOLUTIONS OR APPROVED EQUAL. COLOR SHALL BE RED BRICK.

CURB RAMP DETAILS
NTS



SURFACE RESTORATION DETAILS

TURKEY CREEK REGIONAL SEWER DISTRICT

FASCINATION PLACE WATER MAIN IMPROVEMENTS

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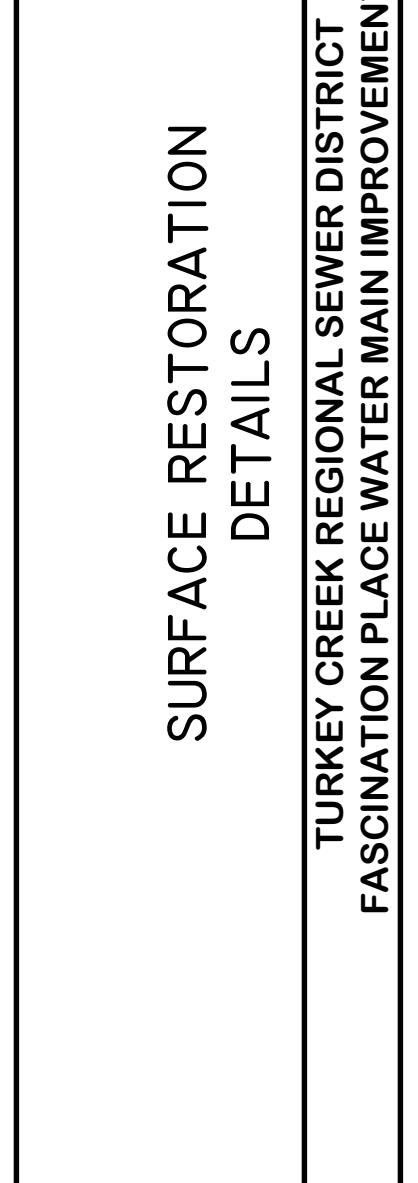
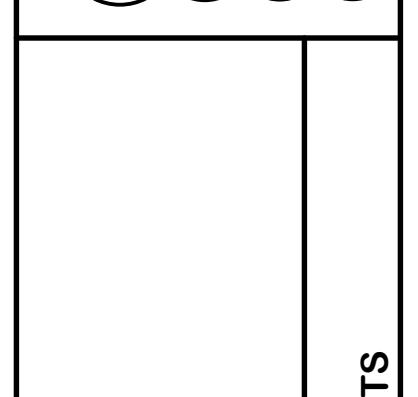
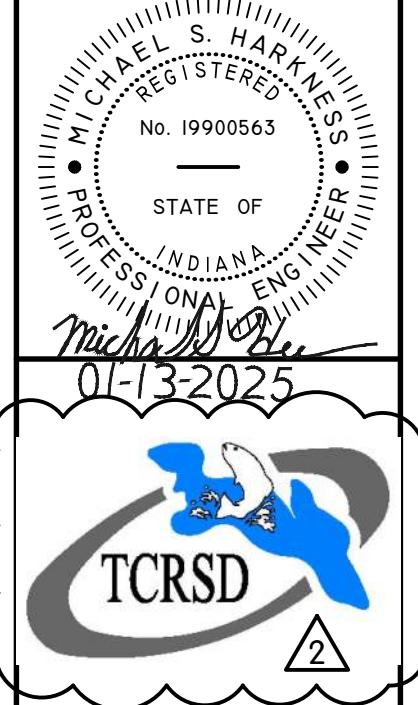
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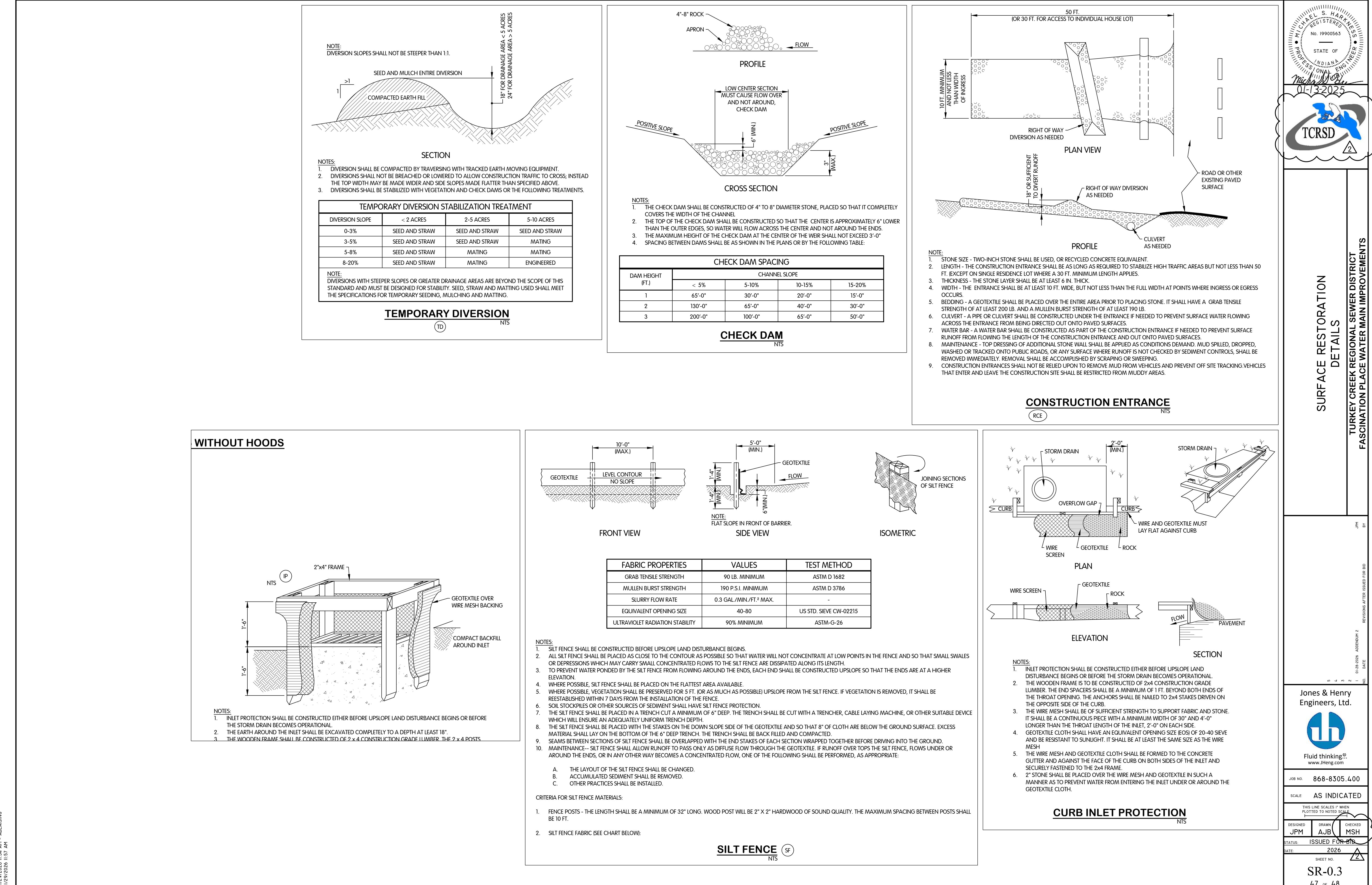
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<p>ASSESSMENT OF CONSTRUCTION PLAN ELEMENTS (SECTION A)</p> <p>A 1 PLAN INDEX SEE COVER SHEET OF ATTACHED PLANS.</p> <p>A 2 11X17 PLAT SEE COVER SHEET OF ATTACHED PLANS.</p> <p>A 3 NARRATIVE THE TURKEY CREEK REGIONAL SEWER DISTRICT IS PROPOSED TO CONSTRUCT APPROXIMATELY 10,800 LF OF 6 TO 12-INCH WATER MAINS. THE PROJECT IS ENTIRELY OF A LINEAR NATURE.</p> <p>A 4 VICINITY MAP SEE COVER SHEET OF ATTACHED PLANS.</p> <p>A 5 LEGAL DESCRIPTION THE PROJECT IS IN SECTION 13; TURKEY CREEK TWP., KOSCIUSKO CO., INDIANA, 12T34N, R7E: THE APPROXIMATE CENTER OF THE SITE DESCRIBED IS:</p> <p>NORTHSHORE - EASTSHORE COLLECTION SYSTEM LATITUDE N091 41.08925 N - LONGITUDE W085.658619 W</p> <p>A 6 LOCATIONS OF LOTS NO INDIVIDUAL LOTS ARE PROPOSED.</p> <p>A 7 HYDROLOGIC UNIT CODE THE HUC 14 NUMBER IS 04050001200020</p> <p>A 8 NOTIFICATION OF STATE OR FEDERAL PERMITS NONE</p> <p>A 9 SPECIFIC STORM WATER DISCHARGE POINTS SEVERAL POINTS OF EXISTING OVERLAND FLOW PATTERNS ARE ADDRESSED WITHIN THE ATTACHED EROSION PLAN AND CONSTRUCTION PLANS.</p> <p>A 10 LOCATION AND NAMES OF WETLANDS, LAKES AND WATER COURSES AS SHOWN ON ATTACHED EROSION CONTROL PLANS THERE ARE COUNTY STORM SEWERS ALONG THE ROUTE.</p> <p>A 11 RECEIVING WATERS RUNOFF FLOWS TO THE COUNTY STORM SEWERS.</p> <p>A 12 POTENTIAL DISCHARGES TO GROUNDWATER THE PROJECT HAS NO SOURCES OF DISCHARGE TO GROUNDWATER.</p> <p>A 13 100-YEAR FLOODPLAIN, FLOODWAY AND FRINGES FEMA'S FIRM MAP PANEL FOR THE PROJECT IS AS FOLLOWS: 18085C0095D SEE ATTACHED.</p> <p>A 14 PRE AND POST CONSTRUCTION PEAK DISCHARGE THIS PROJECT WILL RESTORE TOPOLOGY TO PRECONSTRUCTION STATE AND THEREFORE NO CALCULATIONS ARE SUBMITTED.</p> <p>A 15 ADJACENT LAND USE ADJACENT LAND IS MAINTAINED ROADSIDE SWALES RESIDENTIAL AND BUSINESS.</p> <p>A 16 LOCATIONS AND APPROXIMATE BOUNDARIES OF DISTURBED AREAS THE NOMINAL WIDTH OF CONSTRUCTION ACTIVITIES WILL BE APPROXIMATELY 10 FEET; HOWEVER, 20 FEET IS ALLOCATED FOR PROJECTS OF THIS NATURE.</p> <p>A 17 IDENTIFICATION OF EXISTING EROSION COVER THE SITE CONSISTS OF A MIXTURE OF Dewatering SEDIMENTS FROM QUARRY ACTIVITIES WITH WASTE MATERIAL FROM CONCRETE OPERATIONS. LIGHT BRUSH AND GRASSES ARE PRESENT AROUND THE PERIMETER ON OVERBURDEN MATERIAL.</p> <p>A 18 SOILS MAP INCLUDING DESCRIPTIONS AND LIMITATIONS SOIL TYPES ARE IDENTIFIED ON SOILS MAP ATTACHED.</p> <p>A 19 LOCATION, SIZE AND DIMENSIONS OF PROPOSED STORM WATER SYSTEMS NONE PROPOSED FOR THIS PROJECT.</p> <p>A 20 PLAN FOR ANY OFF-SITE CONSTRUCTION ACTIVITIES NONE PROPOSED FOR THIS PROJECT.</p> <p>A 21 LOCATIONS OF PROPOSED SOIL STOCKPILES, BORROW AND/OR DISPOSAL AREAS NO STOCKPILES ARE PROPOSED AS SPECIAL BORROW AND FILL WILL BE DELIVERED AND USED AS NEEDED. UPON ACCEPTANCE OF SUCCESSFUL BIDDER, CONTRACTOR MUST IDENTIFY WHERE EXCESS SPOIL IS DEPOSITED AND THAT ALL NECESSARY PERMITS TO DEPOSIT SPOIL HAVE BEEN ACQUIRED.</p> <p>A 22 EXISTING SITE TOPOGRAPHY SEE ATTACHED PLAN & PROFILE SHEETS.</p> <p>A 23 PROPOSED FINAL TOPOGRAPHY NO CHANGES WILL OCCUR.</p>	<p>B10 LOCATION, DIMENSION, SPECIFICATIONS AND CONSTRUCTION DETAILS OF MEASURES NO ADDITIONAL OR NEW (PERMANENT) STRUCTURES ARE CALLED FOR ON THIS PROJECT.</p> <p>B11 TEMPORARY SURFACE STABILIZATION METHODS APPROPRIATE FOR EACH SEASON-SEE EROSION AND SEDIMENT CONTROL SEQUENCE AND GENERAL NOTES ON THIS SHEET. IT IS ALSO CALLED FOR THAT FINAL GRADING AND SEEDING SHALL BE KEPT WITHIN 200 FEET OF EXCAVATION. SHOULD AN EXTENDED BREAK IN CONSTRUCTION OCCUR (OVER 15 CALENDAR DAYS) THE CONTRACTOR SHALL COVER AND STABILIZE ALL EXPOSED SOILS AS IN A FINISHED STATE.</p> <p>B12 PERMANENT SURFACE STABILIZATION SPECIFICATIONS ALL AREAS DISTURBED DURING CONSTRUCTION WILL BE REPAVED OR SEDED. ONCE THE BACK FILL IS PLACED THE AREAS WILL BE COVERED WITH AGGREGATE UNTIL IT IS PAVED OR SEDED. DURING WINTER AND SPRING EXPOSED AREAS WILL BE MULCHED COVERED UNTIL SEEDING CAN BE DONE.</p> <p>B13 MATERIAL HANDLING AND SPILL PREVENTION PLAN SOURCES DURING CONSTRUCTION INCLUDE DISTURBED SOILS, STORED MATERIALS AND FUELS, MULCH, CONCRETE WASH-OUT, GENERAL TRASH, HUMAN WASTE, FERTILIZERS, PESTICIDES AND HERBICIDES. FUEL WILL NOT BE STORED ON SITE, BUT SOME LUBRICANTS MAY BE KEPT WITH EQUIPMENT. NO BULK POLLUTANTS WILL BE KEPT ON SITE, ALL TRASH AND CHEMICALS WILL BE STORED OFF SITE (EXCEPT FOR AN APPROVED SANITARY FACILITY).</p> <p>SUCCESSFUL CONTRACTOR SHALL PROVIDE A LIST OF ALL POTENTIAL CONTAMINANTS AND A STORAGE, HANDLING AND SPILL PREVENTION PLAN PRIOR TO COMMENCEMENT OF FIELD ACTIVITIES. THIS WILL COMPLY WITH DIRECTION CONTAINED HEREIN UNDER GENERAL NOTES.</p> <p>EMERGENCY CONTACT TIM WOODWARD WTPP (260) 856-4341.</p> <p>B14 MONITORING AND MAINTENANCE REQUIREMENTS FOR PREVENTION MEASURES THIS PROJECT INTENDS NO PERMANENT NEW STORM STRUCTURES BUT AS DESCRIBED WITHIN THE EROSION AND SEDIMENT CONTROL SEQUENCE AND GENERAL NOTES SEE THIS SHEET, A DAILY INSPECTION AND EVALUATION WILL TAKE PLACE, OR PER RAIN OCCURRENCE IF MORE FREQUENT AFTER RAIN EVENT OF $\frac{1}{2}$ IN. OR MORE.</p> <p>B15 EROSION AND SEDIMENT CONTROL SPECIFICATIONS FOR INDIVIDUAL LOTS NOT APPLICABLE FOR THIS PROJECT.</p> <p>ASSESSMENT OF CONSTRUCTION PLAN ELEMENTS (SECTION C) POST CONSTRUCTION COMPONENT</p> <p>C1 DESCRIPTION OF POLLUTANTS AND THEIR SOURCES ASSOCIATED WITH THE PROPOSED LAND USE POTENTIAL SOURCES OF POLLUTANTS INCLUDE AUTOMOTIVE FLUIDS AND DEBRIS, GENERAL TRASH, ASPHALT, FERTILIZERS, PESTICIDES AND HERBICIDES.</p> <p>C2 SEQUENCING SURFACE WATER QUALITY MEASURE IMPLEMENTATION THE GOVERNING AGENCY WILL MAINTAIN THE CATCH BASINS PER THEIR MAINTENANCE PROGRAM AFTER CONSTRUCTION. HOMEOWNERS WILL MAINTAIN THE GRASS BUFFER AREAS AND SWALES AS THEIR OWN LAWN CARE PROGRAM AFTER CONSTRUCTION. THE TCRSD WILL MAINTAIN BY GRASS AND CLEANING DEBRIS AT THE PUMP STATION AREA.</p> <p>C3 DESCRIPTION OF PROPOSED POST CONSTRUCTION STORMWATER QUALITY MEASURES NONE ARE PROPOSED FOR THE PROJECT</p> <p>C4 LOCATION, DIMENSIONS, SPECIFICATIONS, AND CONSTRUCTION STORMWATER QUALITY MEASURES SEE THE EROSION CONTROL SHEETS FOR LOCATION AND CONSTRUCTION OF STORMWATER QUALITY MEASURES.</p> <p>C5 DESCRIPTION OF MAINTENANCE GUIDELINES FOR POST CONSTRUCTION STORMWATER QUALITY MEASURES NO STORMWATER MEASURES ARE INCLUDED WITH THIS PROJECT</p>	<p>4. POST CONSTRUCTION MONITOR AND MAINTAIN ALL EROSION CONTROL DEVICES UNTIL ALL DISTURBED AREAS ARE PERMANENTLY STABILIZED (TO BE DETERMINED BY OWNER OR HIS REPRESENTATIVE).</p> <p>CONTINUE LOG (AT WEEKLY INTERVAL OR AFTER EACH 0.5-INCH RAIN) AND COMMUNICATE ITEMS OF CONCERN TO APPROPRIATE SUPERVISORY PERSONNEL.</p> <p>UPON DOCUMENTED ACCEPTANCE OF PERMANENT STABILIZATION, REMOVE ALL TEMPORARY EROSION CONTROL DEVICES. NOTE: SOME SILT FENCING, PARTICULARLY IN DITCH BOTTOMS MAY BE PARTIALLY REMOVED SO AS NOT TO OVERLY DISTURB GROUND COVER (CONSULT WITH SITE ENGINEER FOR THESE CASES).</p> <p>DOCUMENT (E.G. PICTURE) POST CONSTRUCTION CONDITION OF PRE-EXISTING STRUCTURES AND DISCHARGE/EXIT POINTS.</p> <p>SUBMIT FINAL LOGS WITH SUPPORTING DOCUMENTATION (E.G. PICTURES) TO SITE ENGINEER.</p> <p>GENERAL NOTES - EROSION AND SEDIMENT CONTROL</p> <p>1. THE CONTRACTOR SHALL FOLLOW PERTINENT PROJECT SPECIFIC GUIDELINES AS SPECIFIED WITHIN THE PROJECT PLANS AND SPECIFICATIONS PARTICULARLY NOTE:</p> <ol style="list-style-type: none"> SECTION 1510-2.03 TEMPORARY SANITARY FACILITIES SECTION 01568 POLLUTION CONTROL SECTION 02800 SODDING, SEEDING, AND MULCHING <p>2. CONTRACTOR MUST ENSURE THAT THE CONSTRUCTION SITE IS PREPARED PRIOR TO THE ONSET OF ANY STORM. CONTRACTOR SHALL HAVE ALL EROSION AND SEDIMENT CONTROL MEASURES IN PLACE FOR THE WINTER MONTHS PRIOR TO OCTOBER.</p> <p>3. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED UNTIL DISTURBED AREAS ARE DEEMED STABILIZED BY THE OWNER UTILITY OR OWNERS REPRESENTATIVE. CHANGES TO THE EROSION AND SEDIMENT CONTROL PLAN SHALL BE MADE TO MEET FIELD CONDITIONS ONLY WITH THE APPROVAL OF OR AT THE DIRECTION OF A REPRESENTATIVE OF THE DEPARTMENT OF UTILITIES.</p> <p>4. THIS PLAN MAY NOT COVER ALL THE SITUATIONS THAT ARISE DURING CONSTRUCTION DUE TO UNANTICIPATED FIELD CONDITIONS. VARIATIONS MAY BE MADE TO THE PLAN IN THE FIELD SUBJECT TO THE APPROVAL OF OR AT THE DIRECTION OF A REPRESENTATIVE OF THE DEPARTMENT OF UTILITIES.</p> <p>5. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CHECKED BEFORE AND AFTER ALL STORMS TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.</p> <p>6. CONTRACTOR SHALL MAINTAIN A LOG AT THE SITE OF ALL INSPECTIONS OR MAINTENANCE OF BMPs, AS WELL AS, ANY CORRECTIVE CHANGES TO THE BMPs OR EROSION AND SEDIMENT CONTROL PLAN.</p> <p>7. IN AREAS WHERE SOIL IS EXPOSED, PROMPT REPLANTING WITH NATIVE COMPATIBLE OR AS SPECIFIED VEGETATION SHALL BE PERFORMED. NO AREAS WILL BE LEFT EXPOSED FOR MORE THAN 15 CALENDAR DAYS OR OVER THE WINTER SEASON.</p> <p>8. IF SPECIFIED, THE CONTRACTOR SHALL INSTALL THE STABILIZED CONSTRUCTION ENTRANCE PRIOR TO COMMENCEMENT OF GRADING. LOCATION OF THE ENTRANCE MAY BE ADJUSTED BY THE CONTRACTOR TO FACILITATE GRADING OPERATIONS. ALL CONSTRUCTION TRAFFIC ENTERING THE PAVED ROAD MUST CROSS THE STABILIZED CONSTRUCTION ENTRANCE. THE STABILIZED CONSTRUCTION ENTRANCE SHALL REMAIN IN PLACE UNTIL THE ROAD BASE ROCK COURSE IS COMPLETED.</p> <p>9. ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE SWEEP AT THE END OF EACH WORKING DAY OR AS NECESSARY (PARTICULARLY PRIOR TO IMPENDING RAIN).</p> <p>10. CONTRACTOR SHALL PLACE APPROVED BMPs AROUND ALL NEW DRAINAGE STRUCTURE OPENINGS IMMEDIATELY AFTER THE STRUCTURE OPENING IS CONSTRUCTED. THESE SHALL BE MAINTAINED AND REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETED.</p> <p>11. CONTRACTOR SHALL IMPLEMENT HOUSEKEEPING PRACTICES AS FOLLOWS:</p> <ol style="list-style-type: none"> A. SOLID WASTE MANAGEMENT: PROVIDE DESIGNATED WASTE COLLECTION AREAS AND COVERED (RAIN PROOF) SEALED CONTAINERS. ARRANGE FOR DAILY REMOVAL AND DISPOSAL. CLEAR SITE OF TRASH INCLUDING ORGANIC DEBRIS, PACKAGING MATERIALS, SCRAP OR SURPLUS BUILDING MATERIALS AND DOMESTIC WASTE DAILY. B. MATERIAL DELIVERY AND STORAGE: PROVIDE A DESIGNATED MATERIAL IN OWN HAZARDOUS OR POLLUTANT STORAGE AREA WITH SECONDARY CONTAINMENT SUCH AS BERMING. STORE MATERIAL ON PALETS AND PROVIDE COVERING FOR SOLUBLE MATERIALS. RELOCATE STORAGE AREA INTO BUILDING SHELL WHEN POSSIBLE. INSPECT AREA WEEKLY. DYNAMIC JOB SITES (TRENCHING OPERATIONS) SHALL ONLY STORE ON SITE ADEQUATE MATERIAL FOR WEEKLY OPERATIONS. LONGER ON SITE STORAGE SHALL BE ADDRESSED WITH OWNERS REPRESENTATIVE FOR NEGATIVE IMPACTS ON EXISTING GROUND COVER AND IN NO CASE SHALL CREATE A HIGHER RISK OF EROSION CONTROL DUE TO LACK OF DILIGENT EVALUATION. NO HAZARDOUS WASTE OR PRODUCTS OF A POLLUTANT NATURE WILL BE STORED ON SITE. C. CONCRETE WASTE: PROVIDE A DESIGNATED AREA FOR A TEMPORARY PIT TO BE USED FOR CONCRETE TRUCK WASH-OUT. DISPOSE OF HARDENED CONCRETE OFFSITE. AT NO TIME SHALL A CONCRETE TRUCK DUMP ITS WASTE AND CLEAN ITS TRUCK INTO THE CITY STORM DRAINS VIA CURB AND GUTTER. INSPECT DAILY TO CONTROL RUNOFF, AND WEEKLY FOR REMOVAL OF HARDENED CONCRETE. D. PAINT AND PAINTING SUPPLIES: PROVIDE INSTRUCTION TO EMPLOYEES AND SUBCONTRACTORS REGARDING REDUCTION OF POLLUTANTS INCLUDING MATERIAL STORAGE, USE, AND CLEAN UP. INSPECT SITE WEEKLY FOR EVIDENCE OF IMPROPER DISPOSAL. NO HAZARDOUS WASTE OR PRODUCTS OF A POLLUTANT NATURE WILL BE STORED ON SITE. E. VEHICLE FUELING, MAINTENANCE AND CLEANING: NO HAZARDOUS WASTE, FUELS, LUBRICANTS (EXCEPT MINIMAL OPERATOR MAINTENANCE TYPE IN APPROVED SEALED CONTAINER), POLLUTING EQUIPMENT OR PRODUCTS OF A POLLUTANT NATURE WILL BE STORED ON SITE. PROVIDE A DESIGNATED FUELING AREA WITH SECONDARY CONTAINMENT SUCH AS BERMING. DO NOT ALLOW MOBILE FUELING OF EQUIPMENT. PROVIDE EQUIPMENT WITH DRIP PANS. RESTRICT ON SITE MAINTENANCE AND CLEANING OF EQUIPMENT TO A MINIMUM. INSPECT AREA WEEKLY. F. HAZARDOUS WASTE MANAGEMENT: NO HAZARDOUS WASTE OR PRODUCTS OF A POLLUTANT NATURE WILL BE STORED ON SITE. PREVENT THE DISCHARGE OF POLLUTANTS FROM HAZARDOUS WASTES TO THE DRAINAGE SYSTEM THROUGH PROPER MATERIAL USE, WASTE DISPOSAL AND TRAINING OF EMPLOYEES. HAZARDOUS WASTE PRODUCTS COMMONLY FOUND ON-SITE INCLUDE BUT ARE NOT LIMITED TO PAINTS & SOLVENTS, PETROLEUM PRODUCTS, FERTILIZERS, HERBICIDES & PESTICIDES, SOIL STABILIZATION PRODUCTS, HUMAN WASTE, ASPHALT PRODUCTS AND CONCRETE CURENG PRODUCTS. G. 12. SPILL PREVENTION AND ACTION PLAN CRITERIA SMALL SPILLS AND LEAKS OF POLLUTANT MATERIALS ONTO NON-PAVED SURFACES WILL BE SHOVELLED INTO CONTAINERS FOR DAILY DISPOSAL. SAID SPILLS SHALL BE MARKED IN THE FIELD AND NOTED IN THE ONGOING EROSION CONTROL LOG. H. FUELING TRUCKS FUELING TRUCKS WILL BE EQUIPPED WITH SPILL PREVENTION KITS FOR SMALLER FUEL SPILLS. I. VEHICLE MAINTENANCE ALL VEHICLE MAINTENANCE SHALL TAKE PLACE AT THE DESIGNATED FUELING/MAINTENANCE SITE (PER SOIL EROSION PLAN) OR OFF SITE IF NONE ARE SUBMITTED AND APPROVED. J. EVALUATE POTENTIAL SOURCES OF OFF-SITE CONTAMINATION (BOTH SEDIMENT AND OTHER HAZARDOUS RUN-OFF) INTO A GIVEN CELL. THIS MAY REQUIRE ADDITIONAL MEASURES TO DIFFERENTIATE CONTRACTOR'S DEPOSITS FROM OUTSIDE INFLUENCES. K. EVALUATE, MARK AND PROTECT 1. IMPORTANT TREES WITH ASSOCIATED ROOT ZONES, 2. UNIQUE AREAS TO BE PRESERVED (E.G. WETLANDS AND LANDSCAPED BEDS), 3. EXISTING VEGETATION SUITABLE FOR USE AS FILTER STRIPS (E.G. EXISTING GRASS AT DISCHARGE POINTS). L. IDENTIFY CONSTRUCTION TRAFFIC PATTERNS, MATERIAL DELIVERY COORDINATION, AND STOCKPILES, THEN DEVELOP PLANS TO MINIMIZE NEGATIVE IMPACTS TO EXISTING GROUND COVER. M. INSTALL EROSION CONTROL MEASURES WITHIN ACTIVE CELL N. TRAIN/INFORM ALL EMPLOYEES AND SUBCONTRACTORS OF EROSION PLAN PARTICULARS. O. 3. DURING CONSTRUCTION P. CONDUCT FINAL GRADING AND SEEDING OPERATIONS AS TIGHT AS PRACTICAL TO ACTUAL EXCAVATION, IN ANY CASE SAID SEEDING SHALL LAG NO MORE THAN 200FT BEHIND CURRENT ACTIVITY (EXCEPT FINAL PAVEMENT PLACEMENT). Q. MONITOR AND MAINTAIN ALL OFF-SITE AREAS (PARTICULARLY PUBLIC THOROUGHFARES) TO ENSURE NO TRACKING OR SEDIMENTATION DEPOSITS REMAIN BEYOND DAILY CLEAN-UP OPERATIONS. R. PERFORM DAILY INSPECTIONS AND EROSION APPLICATION ADJUSTMENTS AND RECORD IN DAILY LOG. S. REPAIR/REPLACE ALL EROSION CONTROL APPLICATIONS AS ACTUAL TRENCHING OPERATION BREECHES EACH. T. NOTE: REPEAT STEPS 2 AND 3 FOR EACH CELL AS ENCOUNTERED. 	<p>GENERAL SEEDING REQUIREMENTS UNLESS SPECIFICALLY STATED OTHERWISE IN CONTRACT DOCUMENTS THE FOLLOWING GUIDELINES SHALL BE COMPLIED WITH: PREPARATION OF GROUND BEFORE SEEDING THE AREA TO BE SEEDED SHALL BE MADE SMOOTH AND UNIFORM AND SHALL BE IN ACCORDANCE WITH THE FINISHED GRADE AND CROSS SECTION SHOWN ON THE PLANS OR AS OTHERWISE DESIGNATED.</p> <p>THE SEED BED, IF NOT LOOSE, SHALL BE LOOSENSED TO A MINIMUM DEPTH OF 3 IN. (75 MM) BEFORE FERTILIZER OR SEED IS APPLIED. IN AREAS OF EXCESSIVE VEHICULAR TRAFFIC, SUCH AS PARKING OF CONSTRUCTION EQUIPMENT NEAR A BRIDGE REPAIR, THE SOIL SHALL BE LOOSENSED TO A MINIMUM DEPTH OF 6 IN. (150 MM). AREAS TO BE COVERED WITH TOPSOIL SHALL BE MILLED OR DISKED SLIGHTLY BEFORE THE TOPSOIL IS PLACED. A DISK, A DISK, SPIKE-TOOTHED HARROW, OR OTHER SIMILAR DEVICE MAY BE USED FOR THIS PURPOSE. SUCH LOOSENING WILL BE REQUIRED TO ENSURE BOND OF THE TOPSOIL WITH THE SURFACE ON WHICH IT IS PUT AND TO FORM A UNIFORM SURFACE. THE TOPSOIL SHALL THEN BE SPREAD TO A SUFFICIENT DEPTH TO PRODUCE THE THICKNESS SPECIFIED AFTER IT HAS BEEN COMPACTION LIGHTLY WITH AN APPROVED ROLLER, TAMPING DEVICE, OR OTHER METHOD.</p> <p>APPLYING FERTILIZER, SEED, AND MULCH A1 FERTILIZER FERTILIZER AS SPECIFIED SHALL BE SPREAD UNIFORMLY OVER THE AREA TO BE SEDED. FERTILIZER SHALL BE SPREAD AT THE RATE OF 800 LB/ACRE (900 KG/HA) UNLESS OTHERWISE SPECIFIED. FERTILIZER SHALL BE STANDARD COMMERCIAL FERTILIZER WITH AN ANALYSIS OF 12-12-12. TESTS WILL NOT BE REQUIRED, BUT FERTILIZER STANDARDS SHALL BE GOVERNED BY THE RULES OF THE INDIANA STATE SEED COMMISSIONER.</p> <p>B1 SEED SEED MAY BE DRILLED IN OR MIXED WITH WATER. THE MIXTURE SHALL BE SPRAYED OVER THE AREA TO BE SEDED. AN APPROVED MECHANICAL METHOD WHICH SHALL PLACE THE SEED IN DIRECT CONTACT WITH THE SOIL MAY BE USED. IN PLACES INACCESSIBLE TO MECHANICAL EQUIPMENT, OR WHERE THE AREA TO BE SEDED IS SMALL, A HAND OPERATED CYCLONE SEEDER OR OTHER APPROVED EQUIPMENT MAY BE USED. SEED FOR WARM SEASON GRASSES, FORBS, OR AQUATIC SPECIES SHALL NOT BE COVERED MORE THAN 0.125 IN. (3 MM). ALL OTHER SEED SHALL NOT BE COVERED MORE THAN 0.5 IN. (13 MM).</p> <p>LEGUMINOUS SEEDS, UNLESS OTHERWISE SPECIFIED, SHALL BE INOCULATED WITH A CULTURE IN ACCORDANCE WITH INDOT 914.06. THE CULTURE SHALL BE MIXED WITH SUFFICIENT WATER TO DISTRIBUTE IT THOROUGHLY. THE SEED SHALL BE METED THOROUGHLY WITH THE SOIL AND ALLOWED TO DRY SUFFICIENTLY TO BE IN CONDITION FOR SOWING. INOCULATED SEED SHALL BE SOWN WITHIN 30 H AFTER TREATMENT. WHERE SEEDING IS TO BE DONE BY HYDRAULIC METHODS, THE CULTURE MAY BE ADDED TO THE WATER IN THE SPRAY TANK. C1 MULCH MULCHING MATERIAL, WHEN SPECIFIED, SHALL BE APPLIED UNIFORMLY IN A CONTINUOUS BLANKET AT THE RATE OF 2 TONS/ACRE (4.5 MG/HA). MULCH SHALL BE PLACED WITHIN 24 H AFTER SEEDING. THE PERCENT OF MOISTURE IN THE MULCH SHALL BE DETERMINED IN ACCORDANCE WITH 621.14(C).</p> <p>MULCHING MATERIAL SHALL BE PUNCHED INTO THE SOIL SO THAT IT IS PARTIALLY COVERED. THE PUNCHING OPERATION SHALL BE PERFORMED LONGITUDINALLY WITH THE MULCH TILLER. THE TOOLS USED FOR PUNCHING PURPOSES SHALL BE DISKS THAT ARE NOTCHED AND HAVE A MINIMUM DIAMETER OF 16 IN. (400 MM). THE DISKS SHALL BE FLAT OR UNCLIPPED SUCH AS NOTCHED CULTIVATORS COMMONLY USED ON MOLBOARD PLOWS. DISKS SHALL BE PLACED A MINIMUM OF 8 IN. (200 MM) APART ALONG THE AXLE OR SHAFT. SHAFT OR AXLE SECTIONS OF DISKS SHALL NOT EXCEED 8 FT (2.5 M) IN LENGTH.</p> <p>THE MULCH TILLER FOR PUNCHING SHALL BE CONSTRUCTED SO THAT WEIGHT MAY BE ADDED OR HYDRAULIC FORCE FROM THE TRACTOR MAY PUSH THE PUNCHER INTO THE GROUND. IF HEAVY WEIGHTS ARE NOT USED, SEVERAL TRIPS OVER THE AREA MAY BE NECESSARY TO WORK PART OF THE MULCH INTO THE SOIL. CARE SHALL BE EXERCISED TO OBTAIN A REASONABLY EVEN DISTRIBUTION OF MULCH INCORPORATED INTO THE SOIL.</p> <p>AFTER PROCEDURES FOR HOLDING THE MULCH IN PLACE HAVE BEEN COMPLETED, MULCH, OTHER THAN WHEN APPLIED BY HYDROSEEDER, SHALL BE WATERED THOROUGHLY. THE SEED OR SOIL BENEATH IT SHALL NOT BE DISPLACED. THE MULCHING MATERIAL SHALL BE MAINTAINED IN PLACE SATISFACTORILY UNTIL FINAL COMPLETION AND ACCEPTANCE OF THE CONTRACT EXCEPT AS PROVIDED IN 107.18. WHEN SEEDING IS PERFORMED BETWEEN JUNE 1 AND AUGUST 15, A SECOND THOROUGH WATERING SHALL BE APPLIED APPROXIMATELY 21 DAYS AFTER SEEDING.</p> <p>ON SLOPES STEEPER THAN 3:1, OR WHEN SPECIFIED, THE FOLLOWING METHODS WILL BE PERMITTED.</p> <p>1. METHOD A THE MULCH MAY BE HELD IN PLACE BY MEANS OF A COMMERCIALLY PRODUCED MULCH BINDER WHICH IS IN ACCORDANCE WITH ALL APPLICABLE STATE AND FEDERAL REGULATIONS. SUCH PRODUCT SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS. A COPY OF THE WRITTEN INSTRUCTIONS SHALL BE SUPPLIED TO THE ENGINEER PRIOR TO THE SEEDING WORK. THE PRODUCT SHALL CONTAIN A COVERAGE INDICATOR TO FACILITATE VISUAL INSPECTION FOR EVENNESS OF APPLICATION. IF THE MULCH FAILS TO STAY IN PLACE, THE CONTRACTOR SHALL REPAIR ALL DAMAGED AREAS. A CHANGE IN THE MULCH BINDER MAY BE REQUESTED BY THE ENGINEER.</p> <p>2. METHOD B SUBJECT TO ACCEPTANCE BY OWNER OR HIS REPRESENTATIVE THE MULCH MAY BE HELD IN PLACE BY SPRAYING IT WITH A SATISFACTORY LIQUID ASPHALT OR ASPHALT EMULSION. THE BITUMINOUS MATERIAL MAY BE APPLIED IMMEDIATELY AFTER THE MULCH IS IN PLACE OR IT MAY BE INJECTED INTO THE MULCH AS IT LEAVES A POWER DRIVEN MULCH SPREADER. IF APPLIED TO THE SURFACE, THE AMOUNT SHALL BE APPROXIMATELY 0.6 GAL/SQ YD (0.25 L/M2). IF APPLIED AS THE MULCH COMES FROM THE SPREADER, THE AMOUNT SHALL BE APPROXIMATELY 60 GAL/TON (0.25 L/KG) OF MULCH MATERIAL. THE EXACT AMOUNT SHALL BE AS DIRECTED. NOTE: A SPECIFIC REQUEST/SUBMITTAL IS REQUIRED FOR THIS METHOD.</p> <p>3. METHOD C THE MULCH MAY BE HELD IN PLACE WITH BINDER TWINE FASTENED DOWN WITH WOODEN PEGS NOT LESS THAN 6 IN. (150 MM) LONG SPACED 4 FT (1.2 M) APART. THE TWINE SHALL BE PARALLEL TO AND AT 60° WITH THE PAVEMENT EDGE IN BOTH DIRECTIONS. THE DISTANCE BETWEEN THE INTERSECTIONS OF THE DIAGONAL STRANDS MEASURED ALONG THE STRANDS SHALL BE 12 FT (3.7 M). THE STRAND PARALLEL TO THE PAVEMENT SHALL CROSS THE DIAGONAL STRANDS AT THEIR INTERSECTIONS TO FORM EQUILATERAL TRIANGLES (12 FT (3.7 M) ON A SIDE).</p> <p>4. METHOD D THE MULCH MAY BE HELD IN PLACE WITH A POLYMERIC PLASTIC NET. THE PLASTIC NET SHALL BE UNROLLED SUCH THAT IT LAYS OUT FLAT, EVENLY, AND SMOOTHLY, WITHOUT STRETCHING THE MATERIAL. THE PLASTIC NET SHALL BE HELD IN PLACE BY MEANS OF WIRE STAPLES. THE WIRE STAPLES SHALL BE DRIVEN AT A 90° ANGLE TO THE PLANE OF THE SOIL SLOPE. STAPLES SHALL BE SPACED NOT MORE THAN 4 FT. (1.2 M) APART WITH ROWS ALTERNATELY SPACED. THE PLASTIC NET SHALL BE SECURED ALONG THE TOP AND BOTTOM OF THE SOIL SLOPE WITH STAPLES PLACED TO THE MULCH (10.5 M) ON CENTER. THE ENDS AND EDGES OF THE PLASTIC NET SHALL BE OVERLAPPED APPROXIMATELY 1 IN. (25 MM) AND STAPLED OVERLAPS RUNNING PARALLEL TO THE SLOPE SHALL BE STAPLED 1 FT (0.3 M) ON CENTER AND OVERLAPS RUNNING PERPENDICULAR TO THE SLOPE SHALL BE STAPLED AT LEAST 3 FT (0.9 M) ON CENTER. THE PLASTIC NET SHALL BE PLACED WITH THE LENGTH RUNNING FROM TOP OF SLOPE TO TOE OF SLOPE, OR THE PLASTIC NET SHALL BE PLACED WITH THE LENGTH RUNNING HORIZONTALLY OR PARALLEL TO THE CONTOUR.</p> <p>5. METHOD E THE AREA MAY BE COVERED WITH EROSION CONTROL BLANKETS. THE CONTRACTOR WILL BE PERMITTED TO USE EXCELSIOR BLANKET, PAPER MAT, OR STRAW MAT OR APPROVED EQUIVALENT IN ALL CASES. MANUFACTURER DOCUMENTATION AND SAMPLE MUST BE SUBMITTED PRIOR TO PLACEMENT. ALL EROSION CONTROL BLANKETS WILL COMPLY WITH INDOT 621.05.</p> <p>SEED MIXTURE "R" - INDOT ITEM 621.06(A) (GENERAL PURPOSE - FIELDS AND OPEN RIGHT-OF-WAY) THIS SEED MIXTURE SHALL BE APPLIED AT THE RATE OF 170 LB/ACRE (190 KG/HA). THE MIXTURE SHALL CONSIST OF 95 LB (43 KG) OF LOW ENDOPHYTE KENTUCKY 31 FESCUE OR APPROVED EQUAL, 65 LB (30 KG) PERENNIAL RYEGRASS, AND 10 LB (4.5 KG) JASPER RED FESCUE OR APPROVED EQUAL. FERTILIZER AND MULCHING MATERIAL, WHERE SPECIFIED OR DIRECTED, SHALL BE APPLIED IN ACCORDANCE WITH ABOVE DIRECTIVES.</p> <p>SEED MIXTURE "U" - INDOT ITEM 621.06(B) (SPECIFIC AREAS - LAWNS AND WELL-KEPT AREAS) THIS SEED MIXTURE SHALL BE APPLIED AT THE RATE OF 150 LB/ACRE (165 KG/HA). THE MIXTURE SHALL CONSIST OF 95 LB (43 KG) OF A 4-WAY BLEND OF TURF TYPE TALL GRASSES SUCH AS TRIFOLIATE, REBIL 11, TRAILBLAZER, OR APPROVE EQUAL; 20 LB (9 KG) JASPER RED FESCUE OR APPROVED EQUAL; AND 35 LB (16 KG) CERTIFIED FINE BLANDED PERENNIAL RYEGRASS SUCH AS REGAL, BLAZER, OR APPROVED EQUAL. FERTILIZER AND MULCHING MATERIAL, WHERE SPECIFIED OR DIRECTED, SHALL BE APPLIED IN ACCORDANCE WITH ABOVE DIRECTIVES.</p> <p>SEED MIXTURE "P" - INDOT ITEM 621.06(C) (SHOULDER AND MEDIAN AREAS - GRADING CONTRACTS ONLY) THIS SEED MIXTURE SHALL BE APPLIED AT THE RATE OF 80 LB/ACRE (90 KG/HA). THE MIXTURE SHALL CONSIST OF 30 LB (14 KG) OF "FULTS" PUCINELLA DISTANS, 30 LB (14 KG) OF JASPER RED FESCUE, OR APPROVED EQUAL, AND 20 LB (9 KG) OF PERENNIAL RYEGRASS. FERTILIZER SHALL BE APPLIED AT THE RATE OF 400 LB/ACRE (450 KG/HA) FERTILIZER AND MULCHING MATERIAL, WHERE SPECIFIED OR DIRECTED, SHALL BE APPLIED IN ACCORDANCE WITH ABOVE DIRECTIVES.</p> <p>SEED MIXTURE "D" - INDOT ITEM 621.06(D) (CHRONIC SATURATED SOILS) THIS SEED MIXTURE IS INTENDED FOR TRENCH SITUATIONS WHICH EXPERIENCE SEASONAL CHRONIC SAT</p>
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