

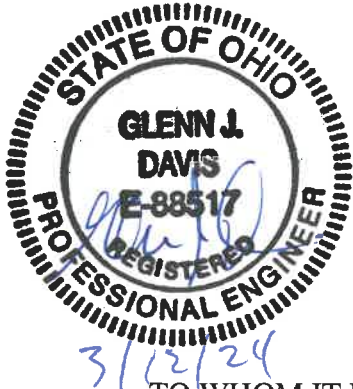
CITY OF TORONTO  
JEFFERSON COUNTY, OHIO

5<sup>TH</sup> & MYERS WATER LINE IMPROVEMENTS

ADDENDUM #1

MARCH 12, 2024

THRASHER PROJECT #010-10148



TO WHOM IT MAY CONCERN:

The following are clarifications and responses to questions posed by contractors for the above-referenced project.

A. GENERAL

1. THE BID FORM HAS BEEN REVISED. YOU MUST USE THE REVISED BID FORM WHEN PREPARING YOUR BID PACKAGE FOR THIS PROJECT. (REPLACE C-410 PAGE 3)

B. DRAWINGS

1. Sheets PN2, 1, 2, 3, and D1 have been revised and labeled as "Revision 2." The purpose for the revisions are described below. **(REPLACE SHEETS PN2, 1, 2, 3, AND D1)**

C. QUESTIONS AND RESPONSES

QUESTION

1. Is there a Pre-Bid meeting? In the advertisement, it says "N/A," but in the specs it says, "bid may be rejected for non-attendance."

**RESPONSE**

Article 4.01 of the Instructions to Bidders for Construction Contract states that there will be no pre-bid conference.

**QUESTION**

2. This project is AIS and BABA, so everything should be quoted as domestic, correct?

**RESPONSE**

This project is subject to American Iron and Steel requirements but is exempt from Build America Buy America.

**QUESTION**

3. Liquidated damages are shown as \$5,000.00 per day. Is that correct?

**RESPONSE**

No. The liquidated damages should be \$500.00 per day. This has been corrected in the AFB (page 1) and in the C-520 section (page 2). **(REPLACE C-111 PAGE 1 AND C-520 PAGE 2 IN THE ATTACHMENTS.)**

**QUESTION**

4. Are the addresses available?

**RESPONSE**

Not at this time, but will be made available, if necessary, during construction.

**QUESTION**

5. Will permits be required for each address? (i.e. plumbing, etc.)

**RESPONSE**

If lead lines are found, then additional permits may be needed for work on private property.

**QUESTION**

6. Have the 7 replacements been confirmed, or is exploratory excavation required? If so, what will be the procedure for handling additional lead service replacement?

**RESPONSE**

Exploratory excavation will be required. The lead line replacement will follow the EPA-required procedures titled, "Guidelines for Water Line Repairs and Replacements in Areas with Lead Service Lines."

**QUESTION**

7. Do the existing meters stay in place?

**RESPONSE**

Yes

**QUESTION**

8. Are new meters to be installed?

**RESPONSE**

No

**QUESTION**

9. What are the requirements for abandonment? Terminate @ existing corp and cap at main?

**RESPONSE**

Additional notes regarding abandonment were added to the plans.

**QUESTION**

10. What material is the existing main? Cast iron, DIP?

**RESPONSE**

Utility records show that the existing main near the centerline of Myers Street is 4" Sand Cast and the existing main under the south sidewalk is 8" Cast Iron.

**QUESTION**

11. What is the 4,600 SY of Pavement Removal for?

**RESPONSE**

The bid form has been corrected to 679 SY to reflect the information shown on the Drawings.

**QUESTION**

12. The quantity for Non-Tracking Tack should be 391 GAL. The application rate should read 0.085 Gal/SY.

**RESPONSE**

The bid form has been modified accordingly.

**QUESTION**

13. What is the purpose of the 113 CY of Asphalt Concrete Base?

**RESPONSE**

The asphalt concrete base is shown on the Trench Detail on Sheet D1. The concrete base is located at the top of the trench and will be overlaid with asphalt.

**QUESTION**

14. What is the spec for the 460 SY of Pavement Repair? (i.e. removal depth, replacement depth, material to be used). Also, is this just a contingency item?

**RESPONSE**

The pavement repair is approximated by the engineer based on projects similar in nature. It is a contingency item and may or may not be needed.

**QUESTION**

15. On page 2 of the Plan Notes under "Sequence of Construction" #5 states "ABANDON IN PLACE BY GROUTING THE EXISTING WATER LINE." Can you clarify this? There are no locations noted on the drawings or specification detail on the procedure required. We would also need to confirm the existing diameter of the main as well as the cut and cap points to abandon. In addition, what reference item on the bid form will this cost be associated with?

**RESPONSE**

Sheets 2 and 3 have been revised to provide more details regarding abandonment and removal of the existing water mains. The abandonment work is incidental to the pipe installation.


## D. CLARIFICATIONS

1. Sheet 1 has been revised in the vicinity of station 0+55. The existing water service line for the property located at the southwest corner of 5<sup>th</sup> Street and Henley Street currently connects along Henley Street. The service line located at station 0+55 along 5<sup>th</sup> Street is replacing the existing service line and shall include an extension to the building as shown on the revised plan. This work is incidental to the service line.

If you have any questions or comments, please feel free to contact me at your earliest convenience at [gdavis@thethrashergroup.com](mailto:gdavis@thethrashergroup.com). As a reminder, bids will be received until 9:00 a.m. on Wednesday, March 20, 2024, at the Toronto City Hall located at 416 Clark Street, Toronto, OH 43964. Good luck to everyone and thank you for your interest in the project.

Sincerely,

THE THRASHER GROUP, INC.



Glenn Davis, PE, CFM  
Project Manager

**ADVERTISEMENT FOR BIDS**  
**CITY OF TORONTO**  
**JEFFERSON COUNTY, OH**  
**5<sup>TH</sup> & MYERS WATER LINE IMPROVEMENTS**

**General Notice**

The City of Toronto (Owner) is requesting Bids for the construction of the following Project:

**5<sup>th</sup> & Myers Water Line Improvements**  
**Thrasher Project Number 010-10148**

Bids for the construction of the Project will be received at the **Toronto City Hall** located at **416 Clark Street**, until **Wednesday, March 20, 2024**, at **9:00 am** local time. At that time, the Bids received will be **publicly** opened and read.

The Project includes the following Work:

**Installation of 19 storm catch basins, 1,725 LF of 8" water line, 5,700 SY of concrete pavement, curb and gutter, service lines, and related appurtenances.**

Bids are requested for the following Contract: **5<sup>th</sup> & Myers Water Line Improvements**

The Work will be substantially completed within **120** calendar days after the date when the Contract Times commence to run, and completed and ready for final payment within **150** days after the date when the Contract Times commence to run. Liquidated damages shall be **\$500.00** per day.

**Obtaining the Bidding Documents**

Information and Bidding Documents for the Project can be found at the following designated website:

QuestCDN: <https://tinyurl.com/zu5z8553> or [www.thethrashergroup.com](http://www.thethrashergroup.com)

To bid on this project and be considered a plan holder you MUST download the digital project bidding documents from QuestCDN and pay the download delivery fee. Complete digital project bidding documents are available at [www.questcdn.com](http://www.questcdn.com). You may register for a free membership with QuestCDN and download the digital plan documents for \$30 by inputting Quest project #8990746 or Soliciting Agent's project number #010-10148 on the website's Project Search page. Please contact QuestCDN.com at 952-233-1632 or [info@questcdn.com](mailto:info@questcdn.com) for assistance in free membership registration, downloading, and working with this digital project information.

The designated website will be updated periodically with addenda, lists of registered plan holders, reports, and other information relevant to submitting a Bid for the Project. All official notifications, addenda, and other Bidding Documents will be offered only through the designated website. Neither Owner nor Engineer will be responsible for Bidding Documents, including addenda, if any, obtained from sources other than the designated website.

The Issuing Office for the Bidding Documents is:

**The Thrasher Group, Inc.**  
**400 3rd Street SE, Suite 309**  
**Canton, OH 44702**

Prospective Bidders may obtain or examine the Bidding Documents at the Issuing Office on Monday through Friday between the hours of **8:00 am to 4:00 pm**, and may obtain copies of the Bidding Documents from the Issuing Office as described below. Partial sets of Bidding Documents will not be available from

Item #	DESCRIPTION	QTY.	UNIT	UNIT COST	COST
6	PRE-CONSTRUCTION VIDEO RECORDING	1	LS		
7	6" WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS	775	FT		
8	8" WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS	890	FT		
9	12" STEEL ENCASEMENT PIPE	25	FT		
10	3/4" SERVICE BRANCH PUBLIC (LONG) (NON-LEAD)	14	EA		
11	3/4" SERVICE BRANCH PUBLIC (SHORT) (NON-LEAD)	14	EA		
12	3/4" SERVICE BRANCH PUBLIC (LONG) (LEAD)	3	EA		
13	3/4" SERVICE BRANCH PUBLIC (SHORT) (LEAD)	4	EA		
14	3/4" SERVICE BRANCH PRIVATE (LEAD)	7	EA		
15	6" GATE VALVE	3	EA		
16	8" GATE VALVE	4	EA		
17	FIRE HYDRANT REMOVAL	3	EA		
18	6" FIRE HYDRANT	3	EA		
19	CATCH BASIN REMOVED	19	EA		
20	CATCH BASIN	18	EA		
21	CATCH BASIN ADJUSTED TO GRADE	18	EA		
22	MANHOLE	1	EA		
23	PAVEMENT REMOVED	<b>679</b>	SY		
24	PAVEMENT PLANING, ASPHALT CONCRETE, 2"	4600	SY		
25	NON-TRACKING TACK COAT (0.85 GAL/SY)	<b>391</b>	GAL		

recognize the delays, expense, and difficulties involved in proving, in a legal or arbitration proceeding, the actual loss suffered by Owner if the Work is not completed on time. Accordingly, instead of requiring any such proof, Owner and Contractor agree that as liquidated damages for delay (but not as a penalty):

1. *Substantial Completion:* Contractor shall pay Owner **\$500.00** plus costs incurred by Owner and Engineer as a result of the work not being completed including but not limited to RPR fees, Engineering fees and Permit fees. for each day that expires after the time (as duly adjusted pursuant to the Contract) specified in Paragraph 4.02.A above for Substantial Completion until the Work is substantially complete. Cost will be based off of the rate schedule in the Engineering Service Agreement.
  2. *Completion of Remaining Work:* After Substantial Completion, if Contractor shall neglect, refuse, or fail to complete the remaining Work within the Contract Times (as duly adjusted pursuant to the Contract) for completion and readiness for final payment, Contractor shall pay Owner **\$500.00** for each day that expires after such time until the Work is completed and ready for final payment.
  3. *Milestones:* Contractor shall pay Owner **\$500.00** for each day that expires after the time (as duly adjusted pursuant to the Contract) specified above for achievement of Milestone 1, until Milestone 1 is achieved, or until the time specified for Substantial Completion is reached, at which time the rate indicated in Paragraph 4.05.A.1 will apply, rather than the Milestone rate.
  4. Liquidated damages for failing to timely attain Milestones, Substantial Completion, and final completion are not additive, and will not be imposed concurrently.
- B. If Owner recovers liquidated damages for a delay in completion by Contractor, then such liquidated damages are Owner's sole and exclusive remedy for such delay, and Owner is precluded from recovering any other damages, whether actual, direct, excess, or consequential, for such delay, except for special damages (if any) specified in this Agreement.
- C. ~~*Bonus:* Contractor and Owner further recognize the Owner will realize financial and other benefits if the Work is completed prior to the time specified for Substantial Completion. Accordingly, Owner and Contractor agree that as a bonus for early completion, Owner shall pay Contractor \$[number] for each day prior to the time specified above for Substantial Completion (as duly adjusted pursuant to the Contract) that the Work is substantially complete. The maximum value of the bonus will be limited to \$[number].~~

#### **Deleted**

#### 4.06 *Special Damages*

- A. Contractor shall reimburse Owner (1) for any fines or penalties imposed on Owner as a direct result of the Contractor's failure to attain Substantial Completion according to the Contract Times, and (2) for the actual costs reasonably incurred by Owner for engineering, construction observation, inspection, and administrative services needed after the time specified in Paragraph 4.02 for Substantial Completion (as duly adjusted pursuant to the Contract), until the Work is substantially complete.
- B. After Contractor achieves Substantial Completion, if Contractor shall neglect, refuse, or fail to complete the remaining Work within the Contract Times, Contractor shall reimburse Owner for the actual costs reasonably incurred by Owner for engineering, construction observation, inspection, and administrative services needed after the time specified in Paragraph 4.02 for Work to be completed and ready for final payment (as duly adjusted pursuant to the Contract), until the Work is completed and ready for final payment.



**ENVIRONMENTAL PROTECTION MEASURES AND PRACTICES**

THE CONTRACTOR SHALL CONDUCT THE WORK UTILIZING CONSTRUCTION BEST MANAGEMENT PRACTICES (BMPS) THROUGHOUT THE PROJECT THAT PROTECT SAFETY, HEALTH, AND THE ENVIRONMENT.

THE CONTRACTOR OR OWNER SHALL OBTAIN THE NECESSARY PERMITS TO CONSTRUCT THE PROJECT AND MEET THE REQUIREMENTS OF THE PERMITS. IN THE CASE OF CONFLICT BETWEEN THESE PROTECTIVE MEASURES AND PRACTICES, AND THE PROVISIONS AND SPECIAL CONDITIONS OF SUCH PERMITS, THE MORE RESTRICTIVE SHALL APPLY.

**MAINTENANCE OF TRAFFIC NOTES  
MAINTAINING TRAFFIC**

LENGTH AND DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE AT THE APPROVAL OF THE CITY REPRESENTATIVE. IT IS THE INTENT TO MINIMIZE THE IMPACT TO THE TRAVELING PUBLIC. LANE CLOSURES OR RESTRICTIONS OVER SEGMENTS OF THE PROJECT IN WHICH NO WORK IS ANTICIPATED WITHIN A REASONABLE TIME FRAME, AS DETERMINED BY THE CITY, SHALL NOT BE PERMITTED. THE LEVEL OF UTILIZATION OF MAINTENANCE OF TRAFFIC DEVICES SHALL BE COMMENSURATE WITH THE WORK IN PROGRESS.

THE CONTRACTOR SHALL FURNISH, ERECT, MAINTAIN AND SUBSEQUENTLY REMOVE ALL FLAGS, BARRICADES, SIGNS, SIGN SUPPORTS AND FURNISH AND MAINTAIN ALL FLAGGERS, WATCHERS AND INCIDENTALS RELATED THERETO.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH ODOT CMS 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS. AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (OMUTCD). PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN LUMP SUM CONTRACT PRICE FOR MAINTENANCE OF TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

**PARTIAL WIDTH CONSTRUCTION**

PARTIAL WIDTH CONSTRUCTION WHERE ALLOWING TRAFFIC THROUGH WORK ZONE:

MAINTAIN ONE (1) LANE OF TRAVEL FOR EACH DIRECTION THROUGH THE USE OF A SHARED LANE WITH FLAGGING OPERATION WHEN NECESSARY. A MINIMUM LANE WIDTH OF 10 FEET SHALL BE MAINTAINED AT ALL TIMES.

THE CONTRACTOR IS RESPONSIBLE FOR ALL TRAFFIC CONTROL AND BARRICADES AT AND IN ADVANCE OF THE CONSTRUCTION SITE. FURNISH AND MAINTAIN TYPE III BARRICADES IN ACCORDANCE WITH THE OHIO MANUAL OF TRAFFIC CONTROL DEVICES (OMUTCD), ADVANCE SIGNAGE PER ODOT STANDARD DRAWING MT-101.60, AND ROAD CLOSED SIGNS.

CLOSURE OF SIDE STREETS WHERE CONSTRUCTION IS PRESENT SHALL BE DONE IN ACCORDANCE WITH MT-101.60

ACCESS TO RESIDENCES SHALL BE PROVIDED AT ALL TIMES. THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT THE DELIVERY OF U.S. MAIL AND/OR ANY OTHER DELIVERY OR EMERGENCY VEHICLES ARE NOT DISRUPTED BY CONSTRUCTION ACTIVITIES.

CLOSURE OF ALLEYS AND SIDE STREETS WHERE CONSTRUCTION IS PRESENT SHALL BE DONE IN ACCORDANCE WITH MT-101.60.

**OVERNIGHT TRENCH CLOSING**

NO TRENCH SHALL BE LEFT OPEN OVERNIGHT EXCEPT FOR A SHORT LENGTH (25 FEET OR LESS) OF A WORK SECTION AT THE END OF THE TRENCH. BACKFILL TRENCH WITH 304 AGGREGATE OR USE STEEL PLATES TO SPAN THE OPEN EXCAVATIONS.

**ENDANGERED BAT HABITAT REMOVAL:**

THIS PROJECT IS LOCATED WITHIN THE KNOWN HABITAT RANGES OF THE FEDERALLY LISTED AND PROTECTED INDIANA BAT, AND NORTHERN LONG-EARED BAT. NO TREES SHALL BE REMOVED UNDER THIS PROJECT FROM APRIL 1 THROUGH SEPTEMBER 30. ALL NECESSARY TREE REMOVAL SHALL OCCUR FROM OCTOBER 1 THROUGH MARCH 31. THIS REQUIREMENT IS NECESSARY TO AVOID AND MINIMIZE IMPACTS TO THESE SPECIES AS REQUIRED BY THE ENDANGERED SPECIES ACT (ESA). FOR THE PURPOSES OF THIS NOTE, A TREE IS DEFINED AS: A LIVE, DYING, OR DEAD WOODY PLANT, WITH A TRUNK OF 3 INCHES OR GREATER IN DIAMETER AT A HEIGHT OF 4.5 FEET ABOVE THE GROUND SURFACE, AND WITH A MINIMUM HEIGHT OF 13 FEET.

**SEQUENCE OF CONSTRUCTION**

- A. THE FOLLOWING IS THE SEQUENCE OF CONSTRUCTION:
  1. VIDEO TAPE SITE. THE CONTRACTOR SHALL SAW CUT THE PAVEMENT.
  2. EXCAVATE AND INSTALL THE WATER MAIN, VALVES AND HYDRANTS.
  3. CHARGE AND TEST THE WATER MAIN.
  4. INSTALL THE NEW SERVICE LINES, CURB STOPS, AND METERS WITH METERPITS
  5. ABANDON IN PLACE BY GROUTING THE EXISTING WATER LINE.
  6. STORM SEWER WORK.
  7. PAVEMENT PLANING.
  8. RESURFACING FULL WIDTH.
  9. CLEAN UP.

**CAST-IN-PLACE CONCRETE**

1. ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH THE REQUIREMENTS OF THE FOLLOWING CODES AND STANDARDS:

"BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, ACI 318-19", AMERICAN CONCRETE INSTITUTE

"ACI MANUAL OF CONCRETE PRACTICE - PARTS 1 THROUGH 5", LATEST EDITION

"MANUAL OF STANDARD PRACTICE", CONCRETE REINFORCING STEEL INSTITUTE

"CODE REQUIREMENTS FOR ENVIRONMENTAL ENGINEERING CONCRETE STRUCTURES, ACI 350-06", AMERICAN CONCRETE INSTITUTE (FOR CONCRETE TANKS)

CEMENT	ASTM C150: TYPE I OR III
AGGREGATES	ASTM C33 NORMAL WEIGHT
DEFORMED REINFORCING BARS	ASTM A615 GRADE 60
WELDED WIRE FABRIC	ASTM A185
FIBER REINFORCEMENT	ASTM C176, TYPE III
AIR-ENTRAINING ADMIXTURE:	ASTM C260

IN ADDITION TO THE REQUIREMENTS SET FORTH IN ACI 318-19, THE FOLLOWING MINIMUM STRENGTH REQUIREMENTS SHALL BE MET.

WALL FOUNDATIONS	<u>F<sub>c</sub> @ 28 DAYS</u> 3,000 PSI
INTERIOR SLAB ON GRADE	4,000 PSI
STRUCTURAL CONCRETE	4,000 PSI

2. COMPRESSIVE STRENGTH CYLINDERS: 4"x8" CYLINDERS.  
FREQUENCY: 1 CYLINDER TESTED AT 7 DAYS, 3 CYLINDERS TESTED AT 28 DAYS, 1 SPARE, 5 TOTAL.

3. SLABS-ON-GRADE SHALL BE PLACED ON A VAPOR BARRIER OVER 4" MINIMUM OF WELL GRADED CRUSHED STONE (NO. 57) OVER COMPACTED SUBGRADE.

4. CHAMFER ALL EXPOSED CONCRETE CORNERS UNLESS SHOWN ON THE DRAWINGS.

5. ALL FORM WORK, SHORING AND RESHORING SHALL BE DESIGNED BY THE CONTRACTOR'S ENGINEER REGISTERED IN THE PROJECT'S JURISDICTION.

**WATERLINE ABANDONMENT**

ALL EXISTING WATERLINES SET TO BE ABANDONED SHALL BE CUT, CAPPED, AND FILLED WITH LOW STRENGTH MORTAR. NO SEPARATE PAYMENT WILL BE MADE FOR THIS ITEM. INCLUDE COSTS BORNE WITH INSTALLATION OF PROPOSED WATER MAIN. REFER TO THE PLANS FOR THE EXISTING WATERLINES THAT ARE SET TO BE ABANDONED.

2

1

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USER: mathan d. kerem

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APPROVED: GJD DATE: 11/28/2023
SURVEY DATE:
SURVEY BY:
FIELD BOOK No.:

**THRASHER**  
400 3rd STREET SE  
CANTON, OHIO 44702  
www.thrashereng.com

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FAX (330)-451-2043

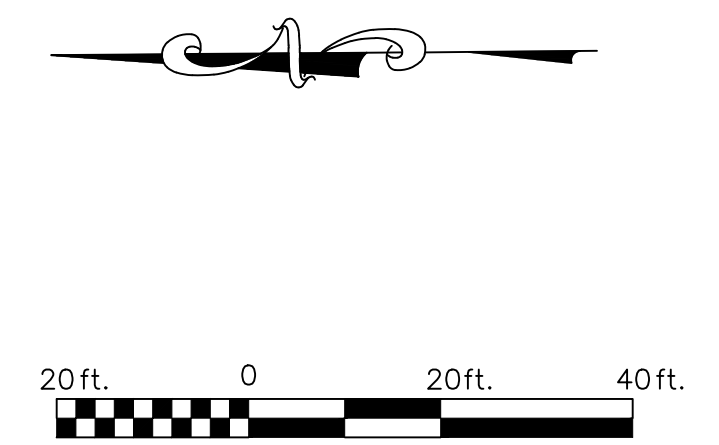
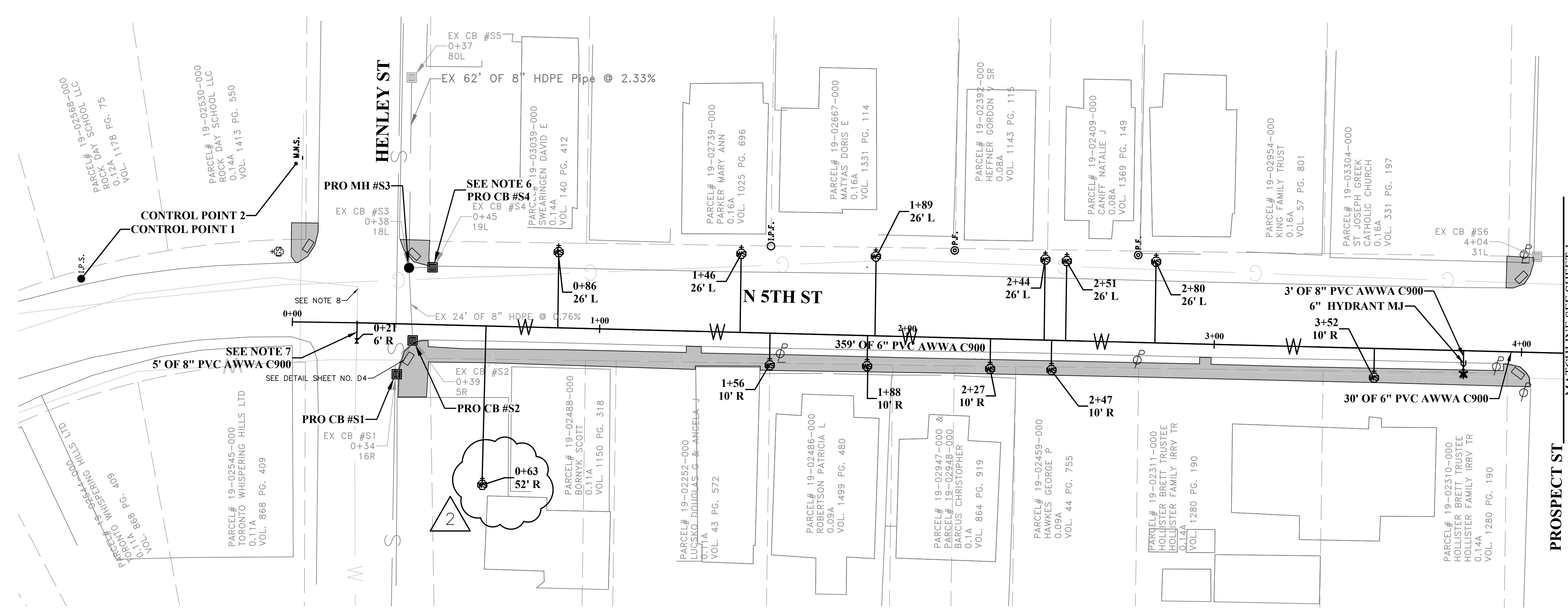
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CONTRACT No.
PROJECT No.
<b>010-10148</b>

**CITY OF TORONTO 5TH & MYERS WATERLINE & STREETScape IMPROVEMENTS**

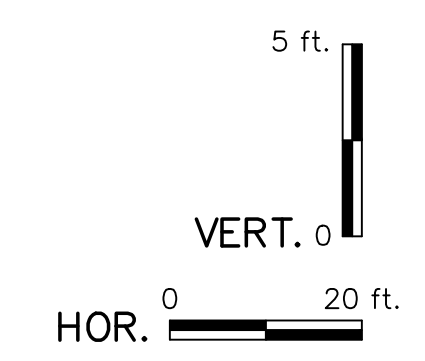
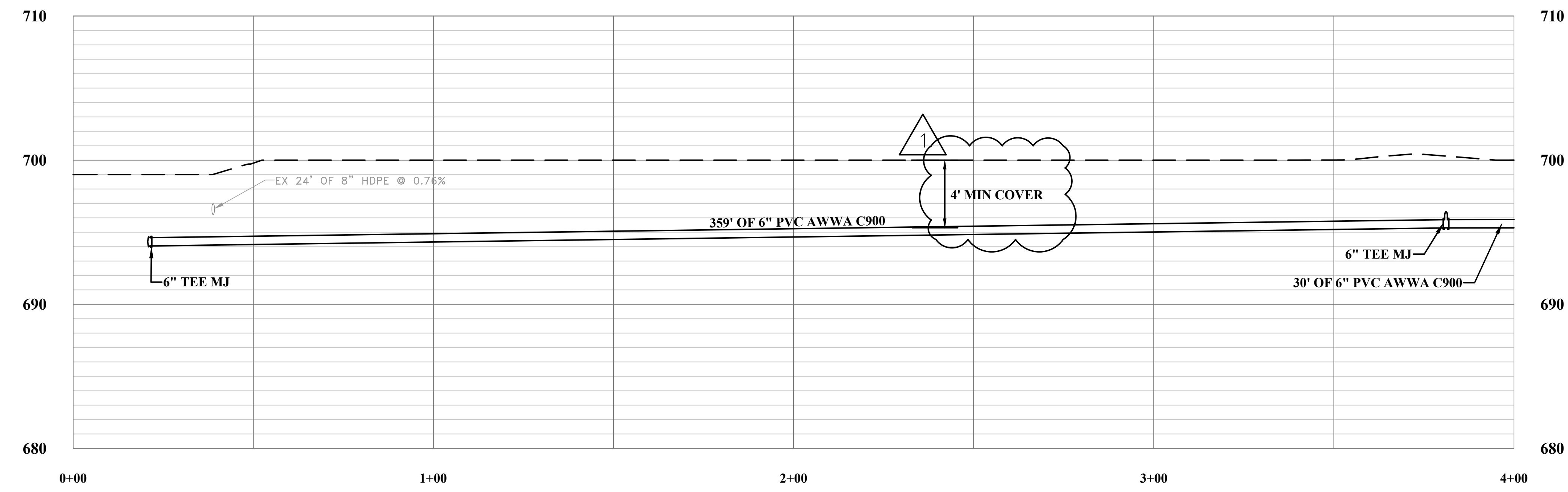
**PROJECT NOTES**

SHEET No.  
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- NOTES:
- LOCATIONS OF CURB STOP VALVE TO BE VERIFIED BY CONTRACTOR BEFORE EXCAVATION.
  - SEE GENERAL NOTES FOR INFORMATION REGARDING CONNECTIONS TO EXISTING WATERLINES.
  - ALL RESIDENTIAL CURB STOP VALVE WITH REPLACE A METER PIT SEE DETAIL SHEET NO. D1
  - CONTRACTOR NEEDS TO VERIFY THE ELEVATION OF SANITARY SEWER LINE AT N5TH STREET & HENLEY STREET.
  - SEE SHEET D1 FOR THRUST BLOCKING DETAILS.
  - REPLACE EXISTING CATCH BASIN IN KIND, SEE DETAIL SHEET D2.
  - CONNECT TO EXISTING 6" MAIN IN HENLEY WEST OF NEW MAIN. ABANDON EXISTING 6" MAIN EAST OF NEW MAIN.
  - ABANDON EXISTING 4" MAIN SOUTH OF EXISTING 12" MAIN.



NO.	BY	DATE	DESCRIPTION
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1	NDK	21NOV2023	PER EPA COMMENTS

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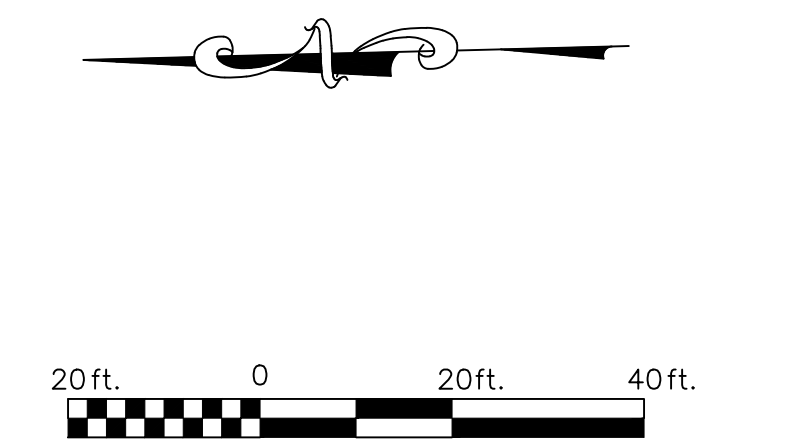
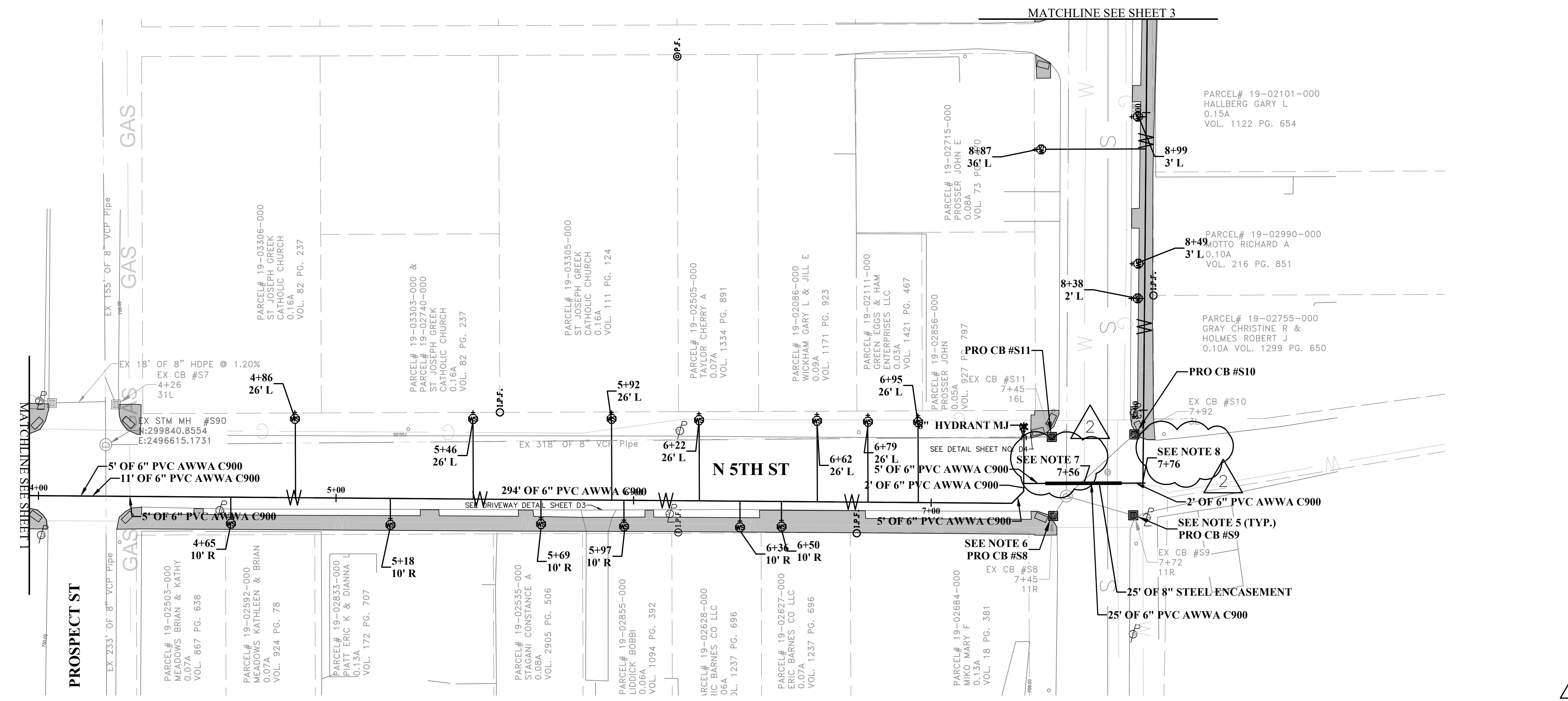
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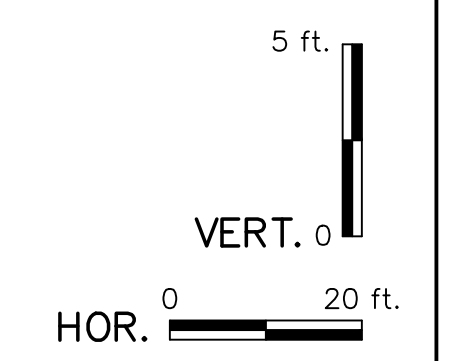
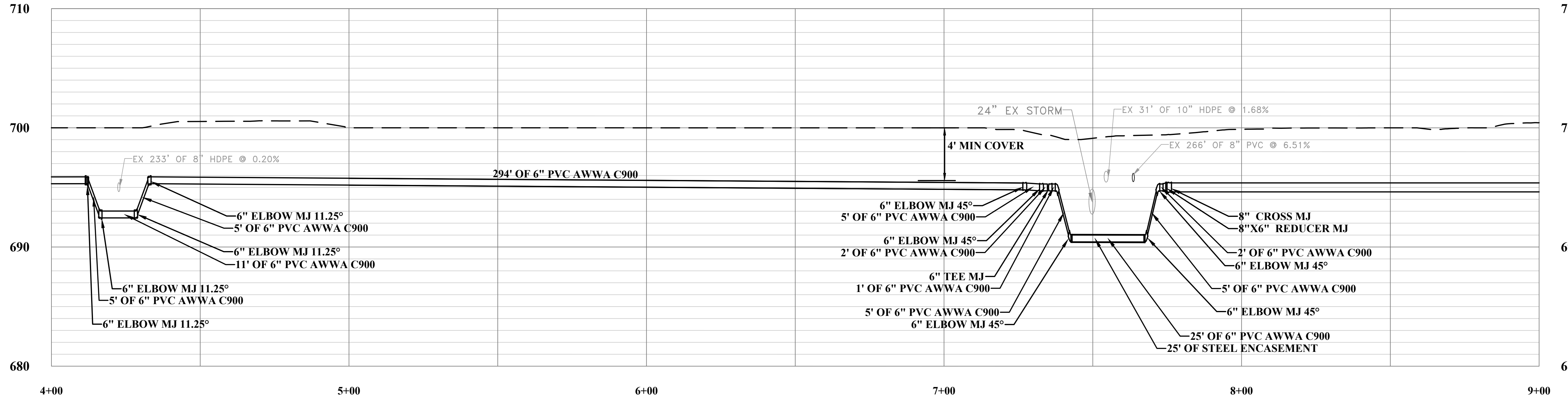
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SHEET No.  
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 USER: mathon.d.keren



- NOTES:**
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  2. SEE GENERAL NOTES FOR INFORMATION REGARDING CONNECTIONS TO EXISTING WATERLINES.
  3. ALL RESIDENTIAL CURB STOP VALVE WITH INCLUDE A METER PIT SEE DETAIL SHEET NO. D1.
  4. SEE SHEET D1 FOR THRUST BLOCKING DETAILS.
  5. REPLACE EXISTING CATCH BASINS IN KIND.
  6. REGRADE PAVEMENT AROUND CATCH BASIN TO GRADE. INSTALL NEW CATCH BASIN TO MATCH PAVEMENT GRADE.
  7. EXISTING WATERLINE TO ABANDONED. START AND END INDICATED WITH STATIONING.
  8. EXISTING WATERLINE TO BE REPLACED WITH PROPOSED WATERLINE. START AND END INDICATED WITH STATIONING.



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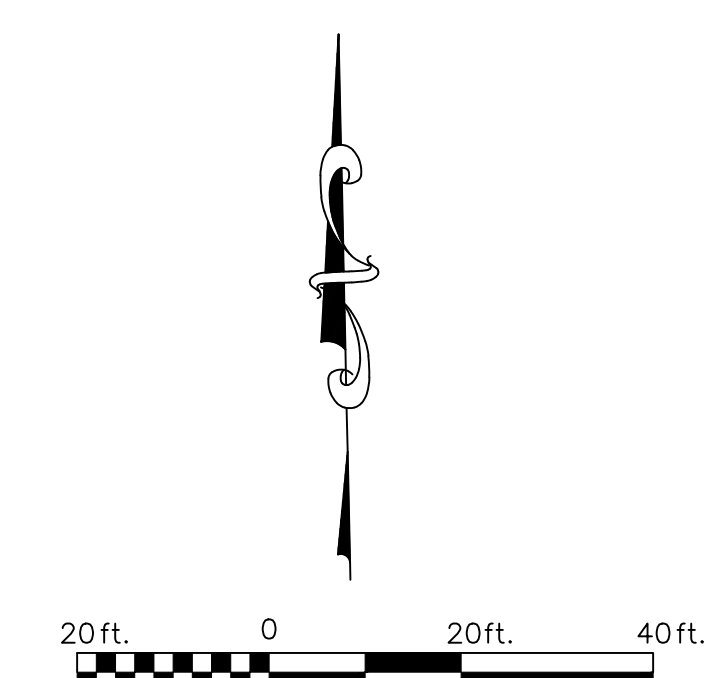
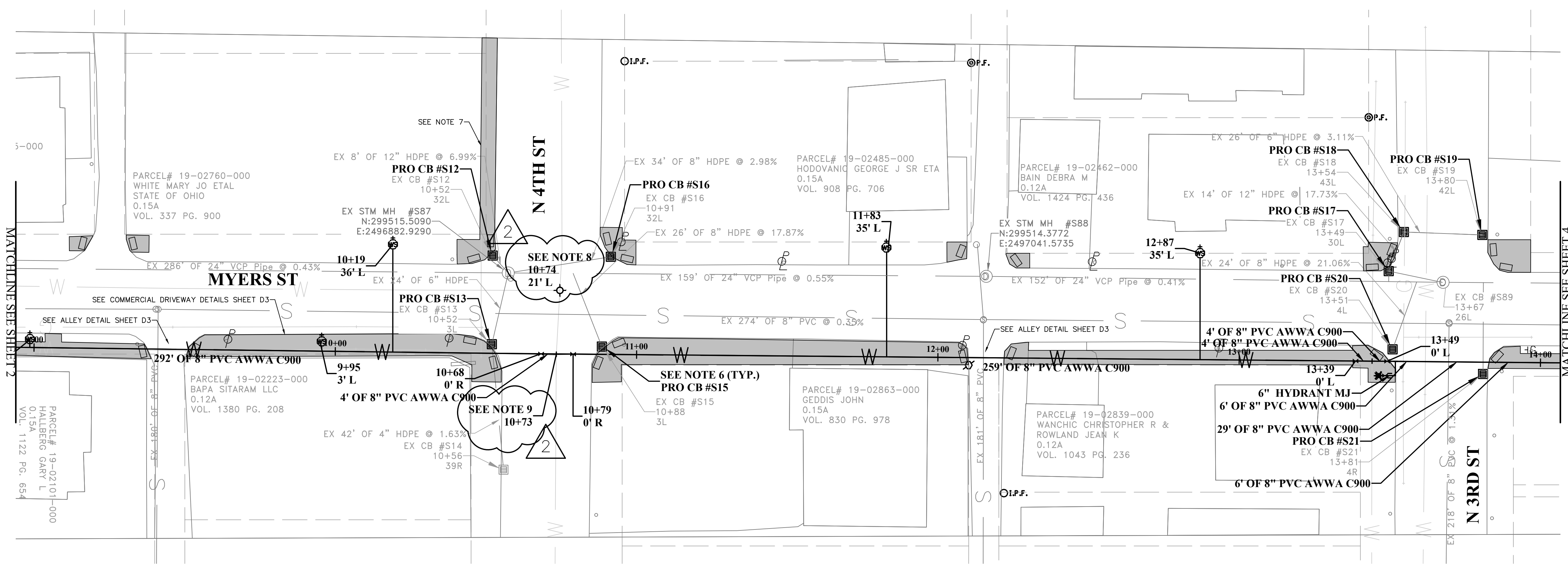
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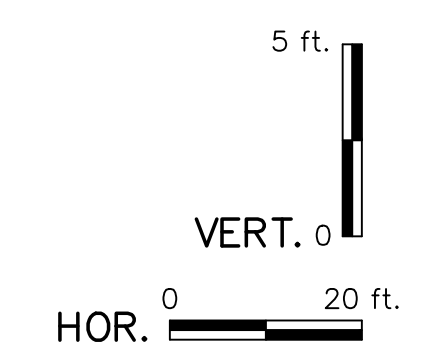
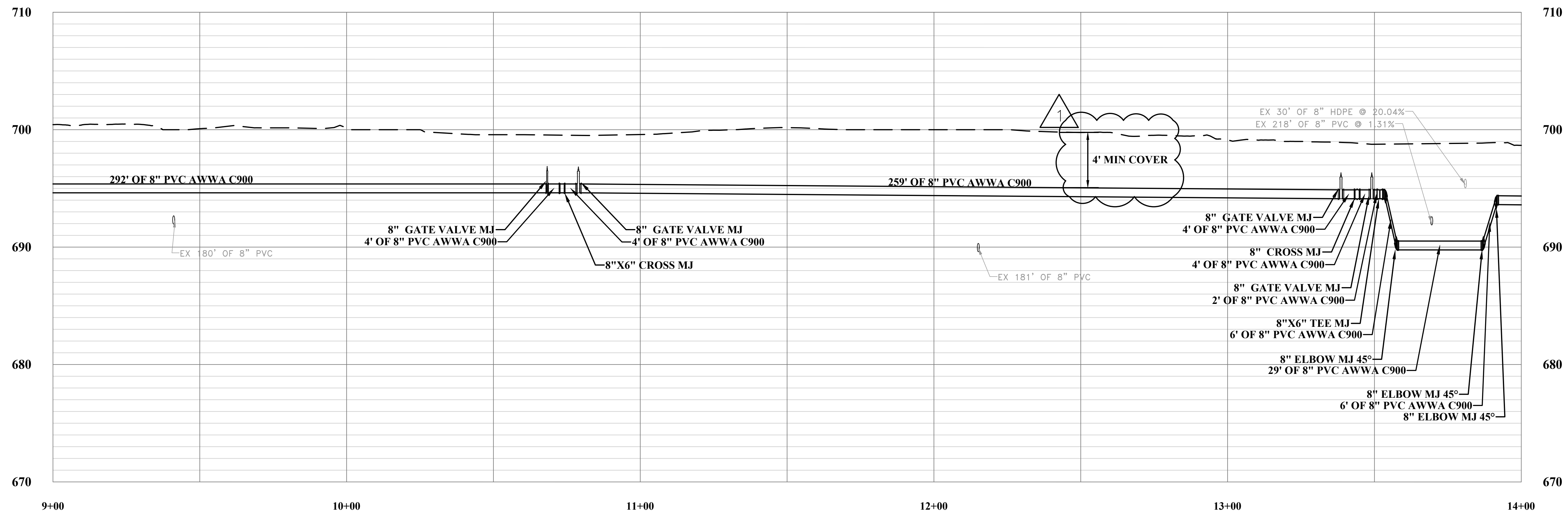
PHONE (330)-451-2042 FAX (330)-451-2043

PHASE No.	CITY OF TORONTO 5TH & MYERS WATERLINE & STREETScape IMPROVEMENTS	SHEET No.
CONTRACT No.		<b>2</b>
PROJECT No.	<b>010-10148</b>	
PLAN & PROFILE - STA 4+00-9+00		

USER: nathan.d.keren  
 LAYOUT: 3 PLAN & PROFILE - STA 9+00-14+00  
 PLOT DATE/TIME: 3/12/2024 11:35 AM  
 CAD FILE: R:\010\010-10148\00-5th & Myers Waterline Improvement-City Of Toronto-Drawing\3 PLAN & PROFILE - STA 9+00-14+00.dwg



- NOTES:
- LOCATIONS OF CURB STOP VALVE TO BE VERIFIED BY CONTRACTOR BEFORE EXCAVATION.
  - SEE GENERAL NOTES FOR INFORMATION REGARDING CONNECTIONS TO EXISTING WATERLINES.
  - ALL RESIDENTIAL CURB STOP VALVE WITH INCLUDE A METER PIT SEE DETAIL SHEET NO. D1.
  - SEE SHEET D1 FOR THRUST BLOCKING DETAILS.
  - TIE TO EXISTING WATERMAIN.
  - REPLACE EXISTING CATCH BASIN IN KIND, SEE SHEET D2.
  - REMOVE SIDEWALK TO SOUTH EDGE OF DRIVEWAY AT 807 4TH STREET AND REPLACE WITH SIDEWALK DETAILED ON SHEET D2.
  - EXISTING WATERLINE TO ABANDONED. START AND END INDICATED WITH STATIONING.
  - EXISTING WATERLINE TO BE REPLACED WITH PROPOSED WATERLINE. START AND END INDICATED WITH STATIONING.



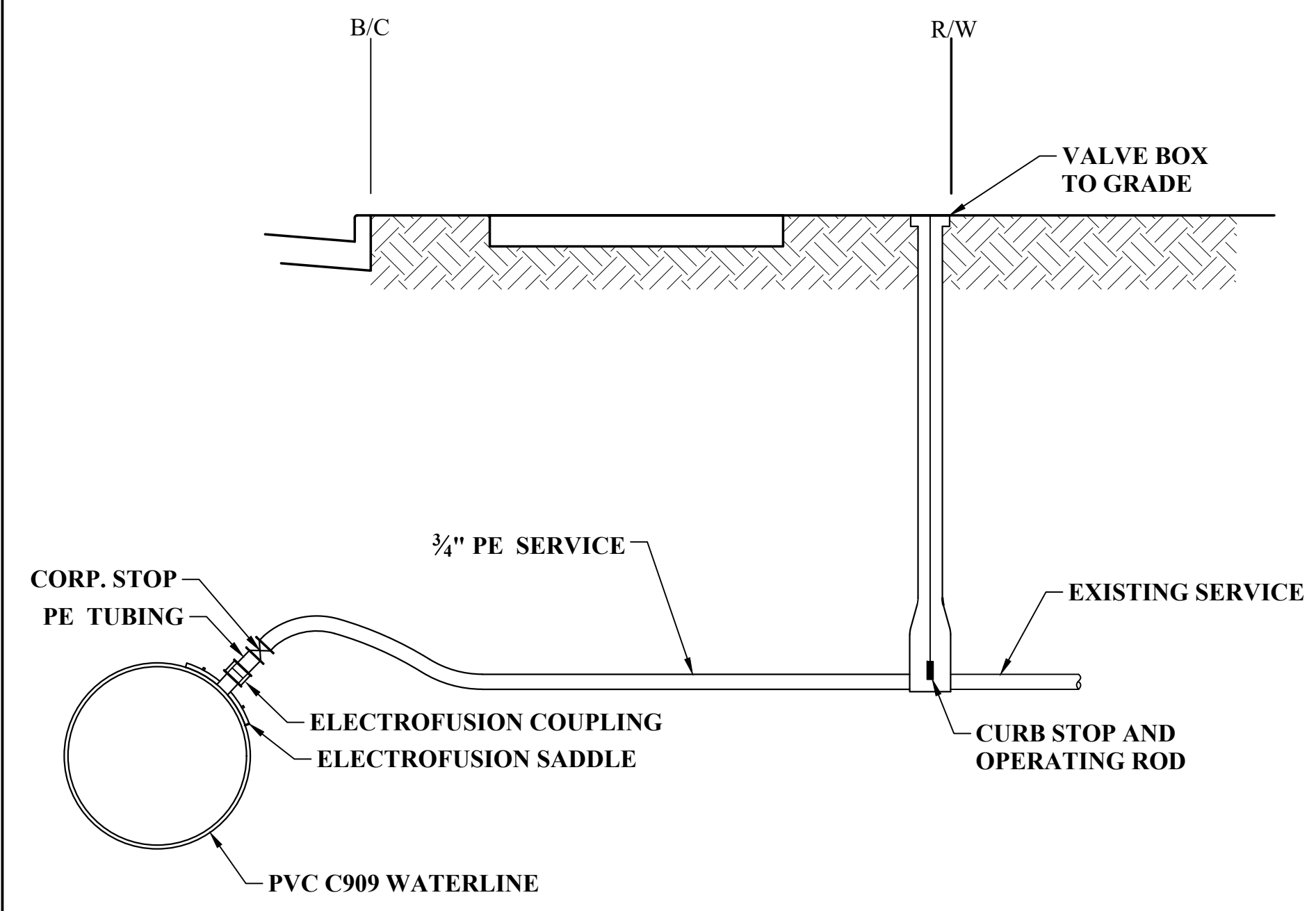
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NO.	BY	DATE	DESCRIPTION
2	NDK	2MAR2024	PER ADDENDUM 1
1	NDK	21NOV2023	PER EPA COMMENTS

SCALE: 1"=20'	
DRAWN: NDK	DATE: 11/28/2023
CHECKED: GJD	DATE: 11/28/2023
APPROVED: GJD	DATE: 11/28/2023
SURVEY DATE:	
SURVEY BY:	
FIELD BOOK No.:	

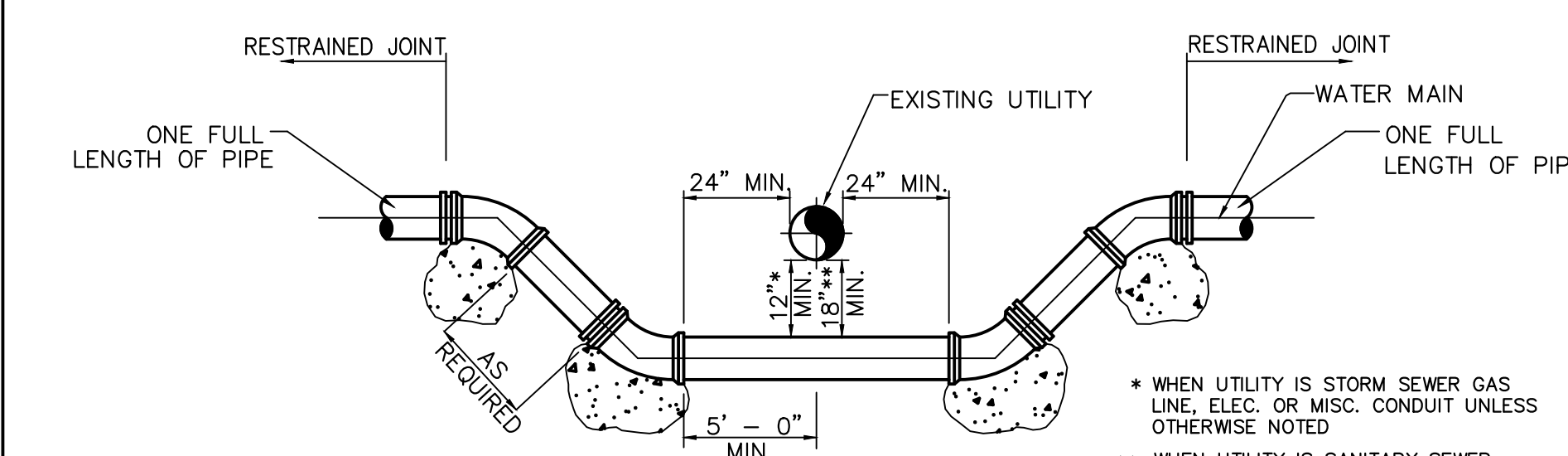
**THRASHER**  
 400 3rd STREET SE  
 CANTON, OHIO 44702  
 www.thrashereng.com  
 PHONE (330)-451-2042  
 FAX (330)-451-2043

PHASE No.	CITY OF TORONTO 5TH & MYERS WATERLINE & STREETScape IMPROVEMENTS	SHEET No.
CONTRACT No.		3
PROJECT No.		
PLAN & PROFILE - STA 9+00- 14+00		

CAD FILE: R:\010\010-10148\00-5th & Myers Waterline Improvement-City Of Toronto-Drawing\01 GENERAL DETAILS - WATERLINE.dwg  
 PLOT DATE/TIME: 3/12/2024 11:36 AM  
 LAYOUT: D1 GENERAL DETAILS - WATERLINE  
 USER: nathan.d.keren



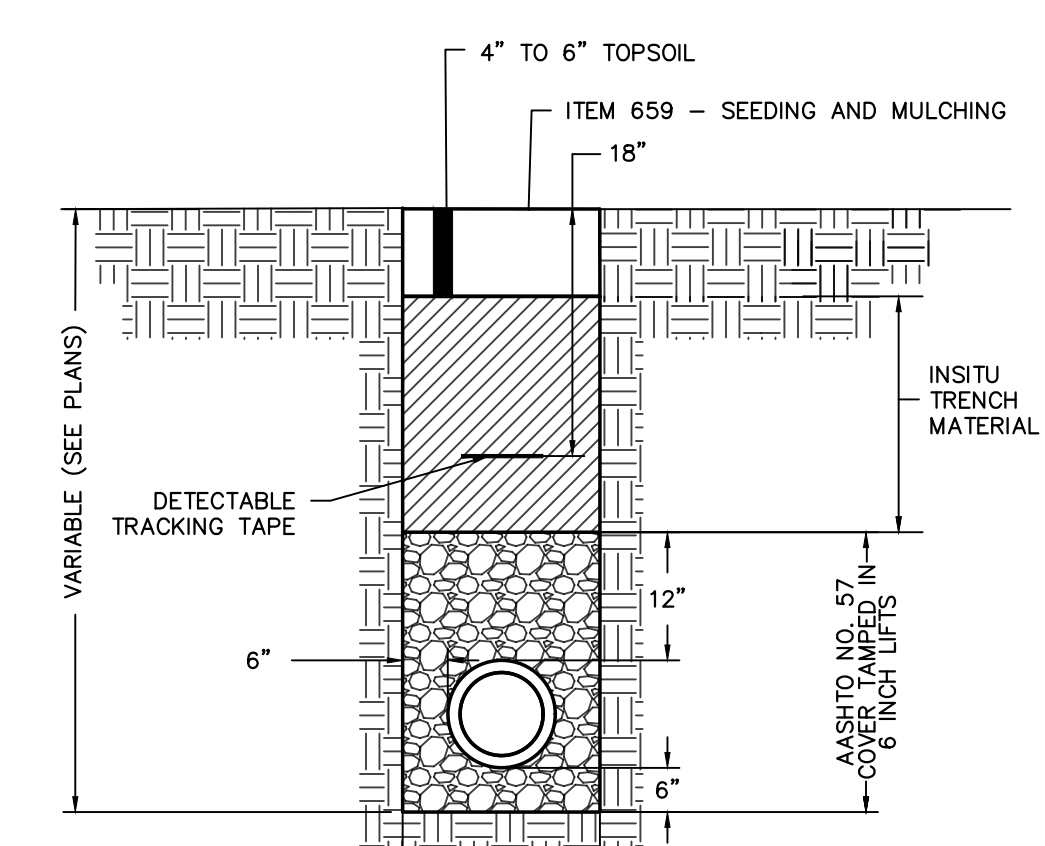
**WATER SERVICE CONNECTION DETAIL**  
NOT TO SCALE



**WATER LOWERING DETAIL**  
NOT TO SCALE

UNLESS OTHERWISE REQUIRED BY WATER UTILITY, RESTRAINED MECHANICAL JOINTS SHALL BE USED. ADAPTERS SHALL BE PROVIDED FOR CONNECTION TO EXISTING MAIN IF REQUIRED.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL WORK ASSOCIATED WITH THE WATERLINE LOWERING WITH THE VILLAGE OF BALTIMORE. THE CONTRACTOR SHALL NOTIFY THE VILLAGE AT LEAST THREE WORKING DAYS IN ADVANCE OF THIS PROPOSED WORK ON THE WATERLINE.



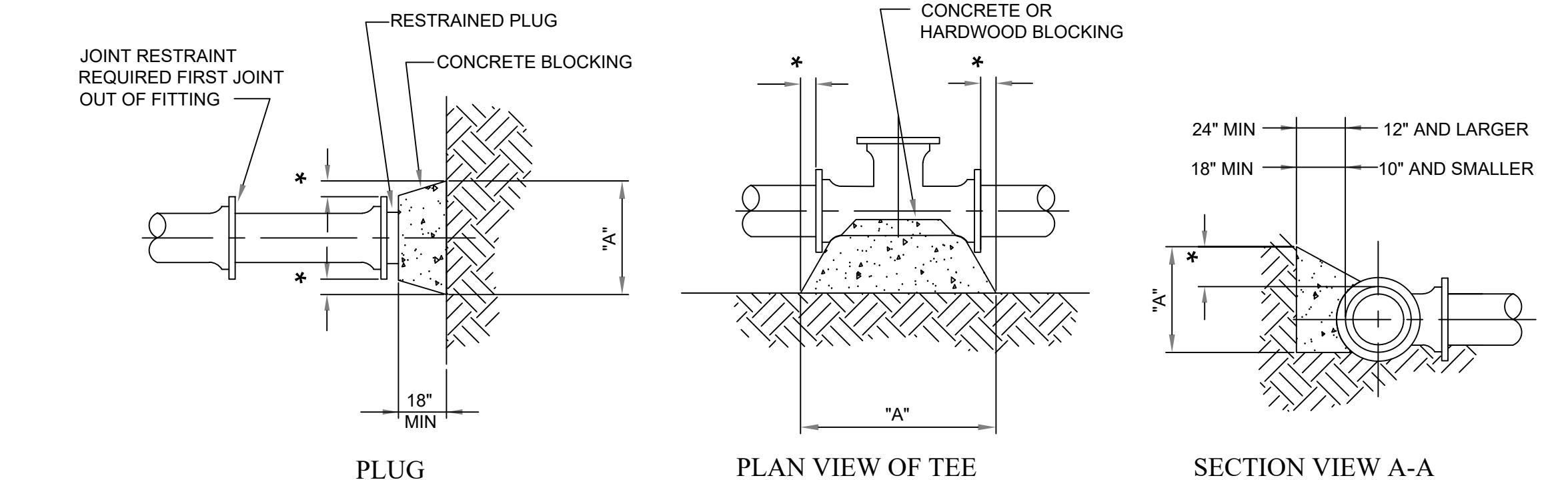
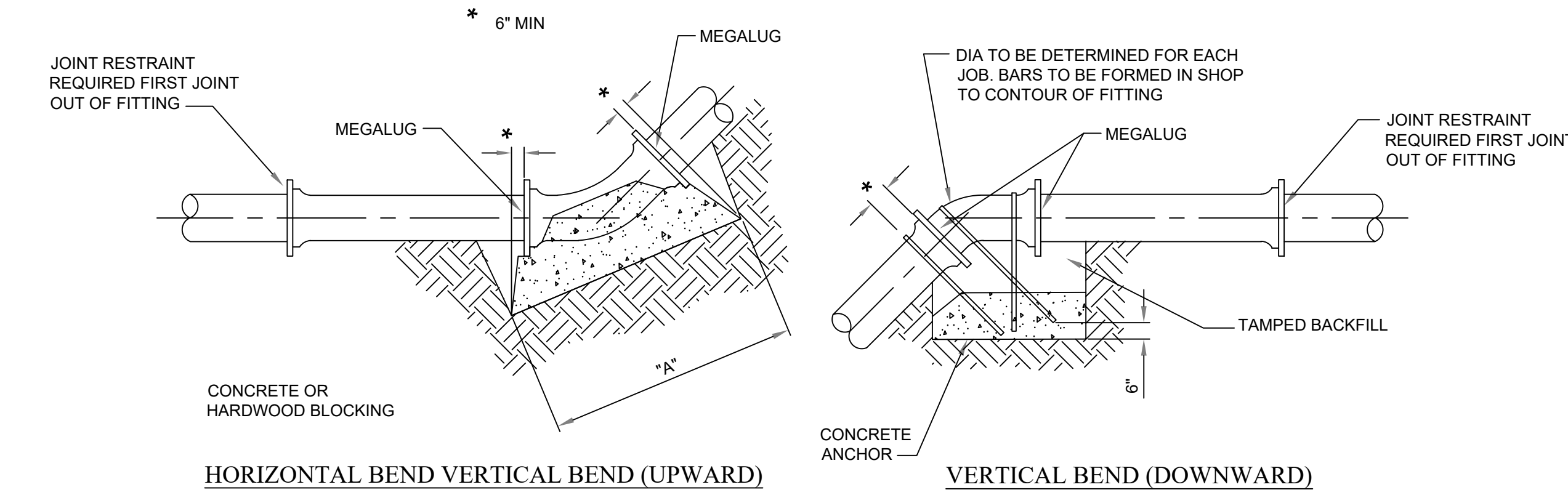
**SOIL**  
NOTE: NOT TO SCALE  
1. AGGREGATE TO BE PROVIDED BY ODOT PREQUALIFIED SUPPLIER.

**\*A\***

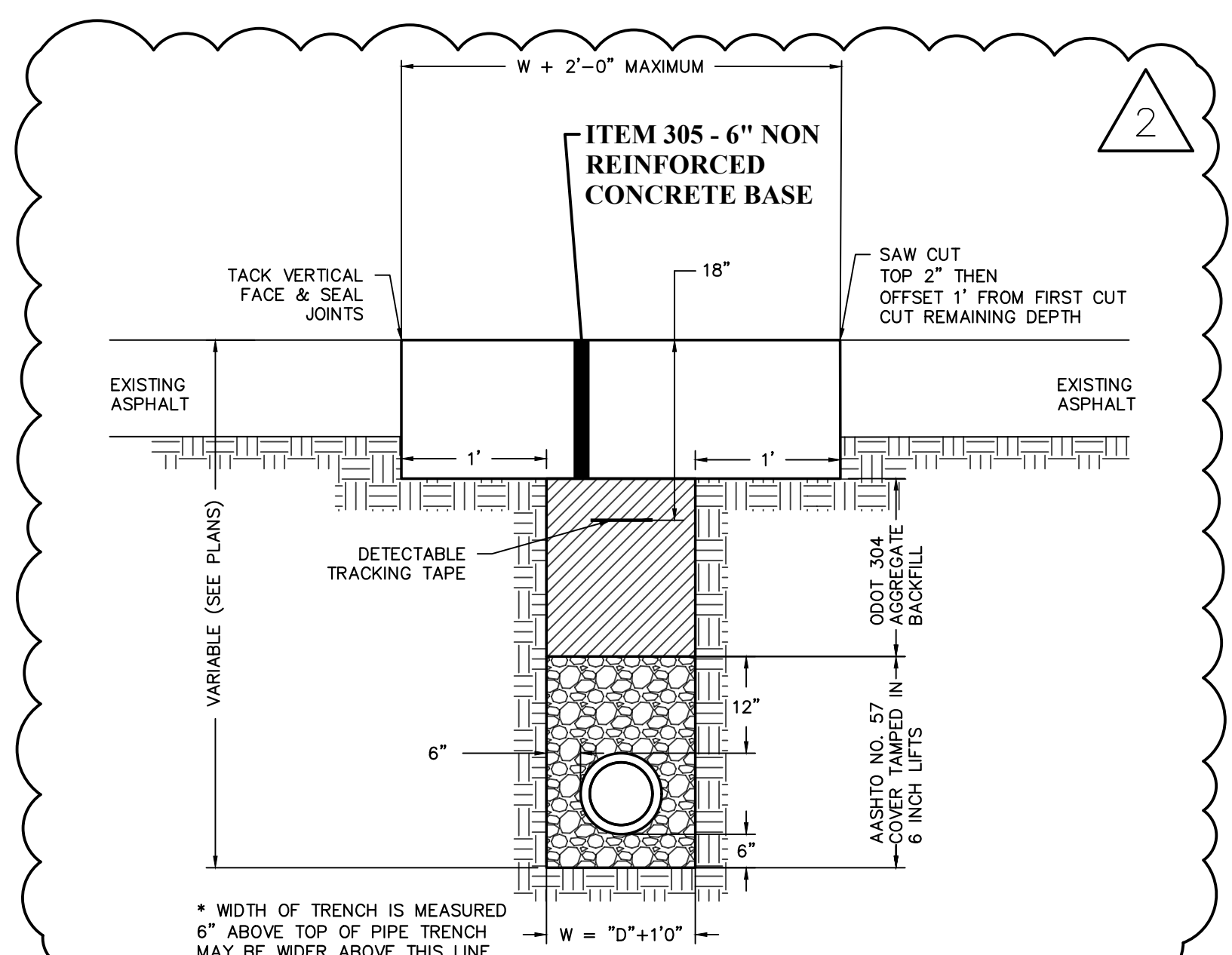
HORIZONTAL BENDS					
	90°	45°	22.5°	TEE	PLUG
6"	6"	6"	6"	6"	6"
8"	8"	8"	8"	8"	8"
10"	10"	10"	10"	10"	10"
12"	12"	12"	12"	12"	12"
16"	16"	16"	16"	16"	16"

MINIMUM VOLUME OF CONCRETE FOR TOP OF VERTICAL BENDS

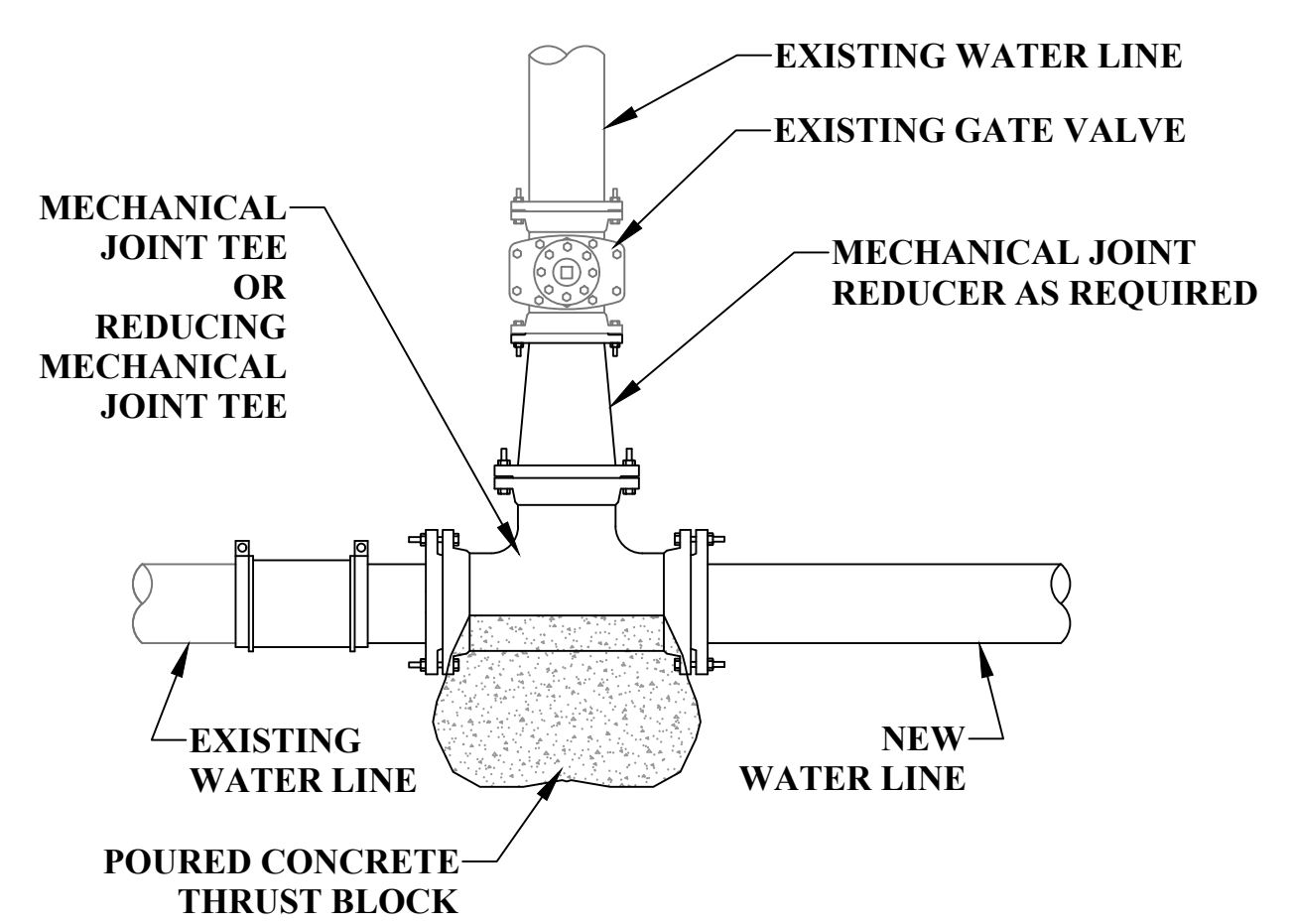
6"	4 C.F.
8"	11 C.F.
10"	22 C.F.
12"	37 C.F.
16"	71 C.F.



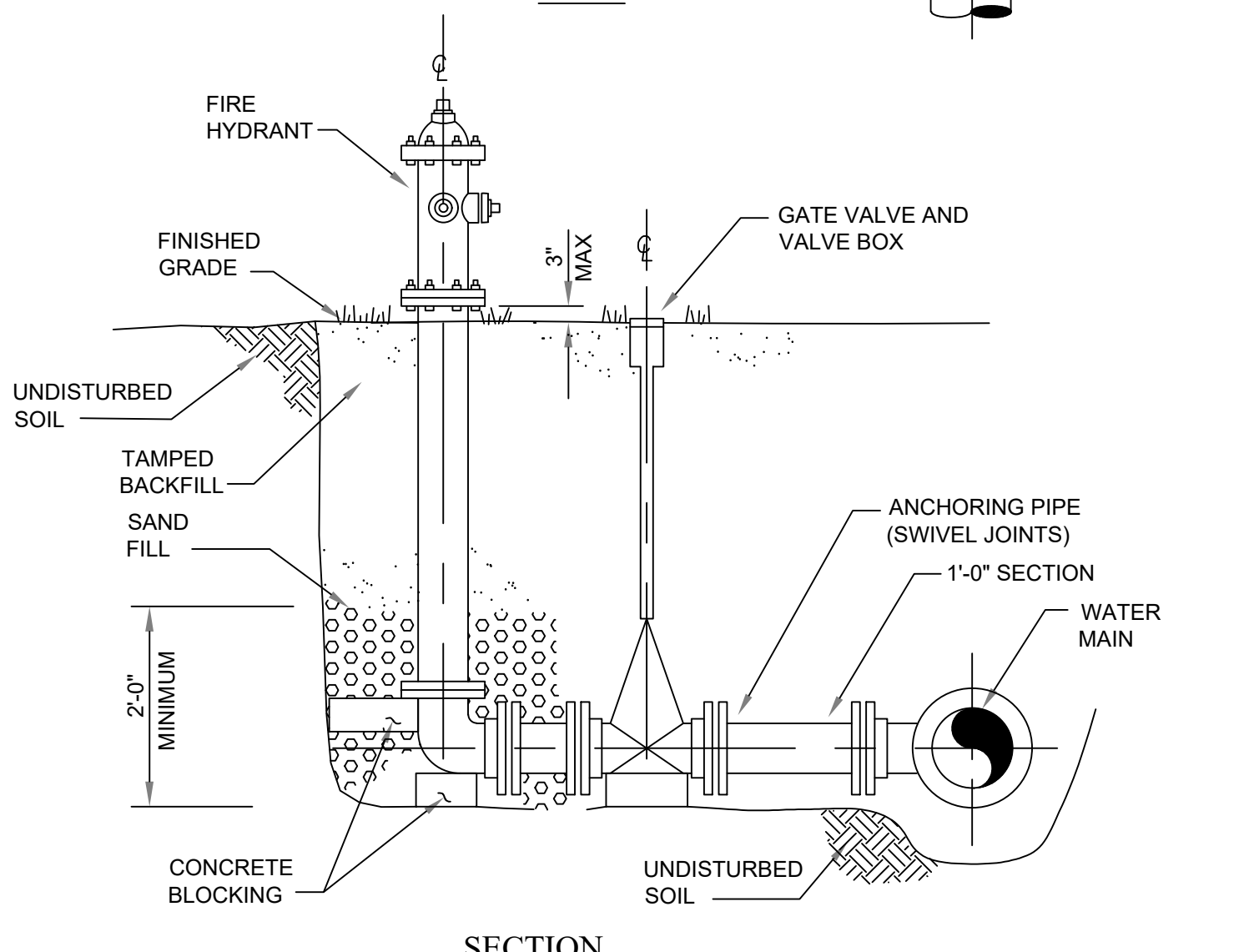
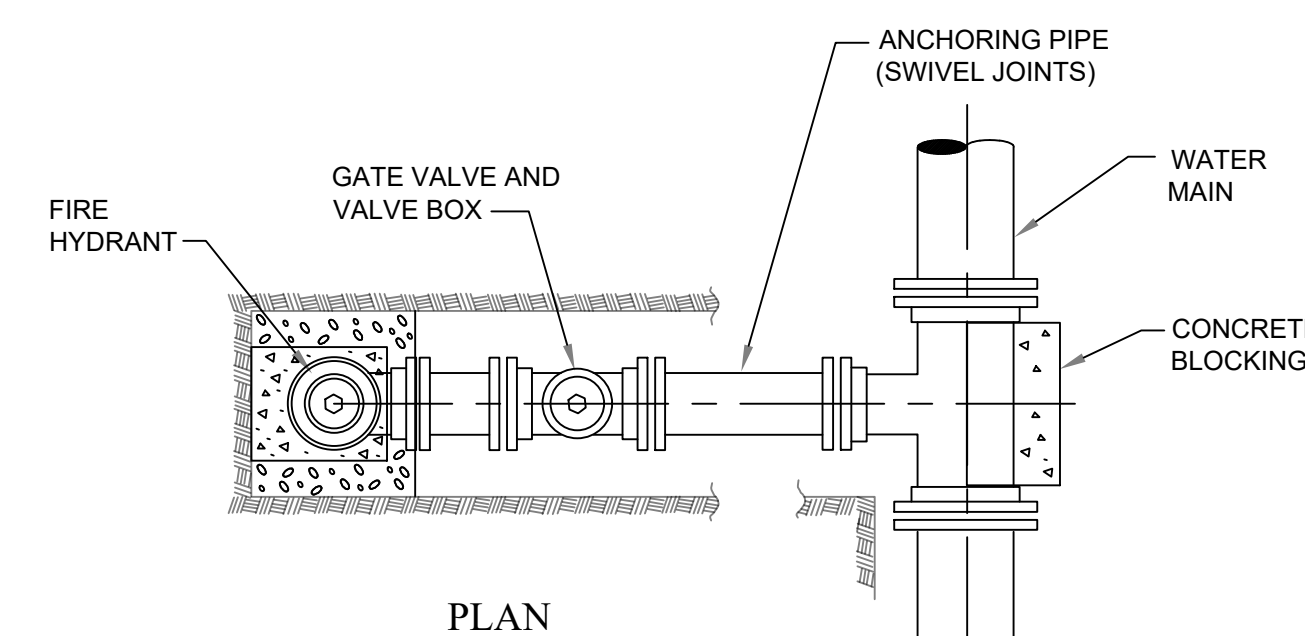
**TYPICAL WATERMAIN THRUST BLOCKING DETAILS**  
NOT TO SCALE



**TRENCH DETAIL**  
NOT TO SCALE



**TIE IN DETAIL**  
NOT TO SCALE



**HYDRANT PERPENDICULAR TO WATER MAIN DETAIL**  
NOT TO SCALE

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2	NDK	2MAR2024	PER ADDENDUM 1

SCALE: --  
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PHASE No.
CONTRACT No.
PROJECT No.
<b>010-10148</b>

**CITY OF TORONTO 5TH & MYERS WATERLINE & STREETSCAPE IMPROVEMENTS**  
 GENERAL DETAILS - WATERLINE

SHEET No.  
**D1**