

# ADDENDUM No. 1

RFP No. 24-08

## S Seventh St. & Greenview Dr. Improvements

**Due Date: February 27, 2024 by 11:00 a.m. (local time)**

The information contained herein shall take precedence over the original documents and all previous addenda (if any) and is appended thereto. **This Addendum includes a total of 110 pages.**

The Proposer is to acknowledge **receipt of this Addendum No. 1 by signing and submitting attachment B**, including all attachments in its Proposal by so indicating in the proposal that the addendum has been received. Proposals submitted without acknowledgement of receipt of this addendum may be considered non-conforming.

**The following forms provided within the RFP Document should be included in submitted proposal:**

- **Attachment D - Prevailing Wage Declaration of Compliance**
- **Attachment E - Living Wage Declaration of Compliance**
- **Attachment G - Vendor Conflict of Interest Disclosure Form**
- **Attachment H - Non-Discrimination Declaration of Compliance**

**Proposals that fail to provide these completed forms listed above upon proposal opening may be rejected as non-responsive and may not be considered for award.**

### I. CORRECTIONS/ADDITIONS/DELETIONS

Changes to the RFP documents which are outlined below are referenced to a page or Section in which they appear conspicuously. Offerors are to take note in their review of the documents and include these changes as they may affect work or details in other areas not specifically referenced here.

<b>Section/Page(s)</b>	<b>Change</b>
New Content Add#1-6 – 8 SD_W-1 SD_W-3	Pre-Proposal Meeting Minutes Fire Hydrant Assembly – tracer wire details changed Precast Gate Well (Water Mains 16 Inch and Smaller) – tracer wire details changed
Replace Schedule of Prices, 15 – 17	Quantity updates to reflect plan changes New pay items: - 06050.02 - Storm Manhole, 48 In. Dia., Additional Depth - 06050.04 - Storm Manhole, 60 In. Dia., Additional Depth - 08010.70 – Aggregate Base, 4 In., 21AA, CIP

Removed pay item:

- 08200.71 – DS\_Pavt Mrkg, Polyurea, 18 In., White
- 08131.72 – DS\_Conc, Sidewalk, Drive Approach, or Ramp, 8 In

Replace Project Schedule and Payment, DS-2 – 4

Contract time and sequencing updated

Grading, DS-5 – 6

Estimated earth excavation quantities added

Replace Plan Set in its entirety Sheet 1 – 92

Sheet 4 and 5: Cross Sections updated to include 4" of aggregate base

Sheet 16: Remove sheet

Sheet 21: Additional curb and driveway approach removal

Sheet 41: R104 changed to 6' Storm MH

Sheet 52-64: Construction Key Updated

Sheet 52: School driveway approaches changed from 8" to 6" thick

Sheet 55: Sidewalk alignment changed

Sheet 71: Bike lane white lines changed to 6" wide

## II. QUESTIONS AND ANSWERS

The following question has been received by the City. The response is being provided in accordance with the terms of the RFP. Bidders are directed to take note of the following questions and City responses in their review of the RFP as they affect work or details in other areas not specifically referenced here.

Question 1: Can you provide a quantity for earth excavation to be included in Roadway Grading?

Answer 1: Yes, these have been provided in the grading detailed specification.

Question 2: Are water services going over or under the storm sewer?

Answer 2: The water services will be installed over the storm sewer. The City will perform all the service connections. They can come back out and raise a service to install the storm sewer if needed.

Question 3: How will the "Existing aggregate base, supplemented with additional 21AA to finish grade prior to paving or excavate to allow 4 inch HMA section" be paid for?

Answer 3: This has been updated on the plans. In areas where the asphalt is to be removed and replaced, 4 inches of aggregate base is now proposed. The existing HMA will be removed at any depth, additional earth excavation of the areas will be included in DS\_Roadway Grading, \_\_\_\_\_. The 4 inches of aggregate base will be paid for as "Aggregate Base, 4 In., 21AA, CIP".

Question 4: The 21AA quantity indicates that the entire road gets 8" of aggregate base; this does not match the cross sections. Which is correct?

Answer 4: The cross sections are correct. That quantity has been updated.

Question 5: How do we find and protect the laterals?

Answer 5: It is the contractor's responsibility to locate leads prior to excavation, incidental to the utility.

The exact location and elevations of the laterals are unknown. The CCTV reports and GIS were used to determine where the laterals are on the main. The laterals shown on the plans are drawn from where they were found at the main at a 1% or 2% slope for a 6" or 4" pipe, respectively. They are drawn perpendicularly from the main to the ROW line.

If a lateral is encountered that needs to be lowered under the storm sewer, a 6-inch PVC service lead will be installed from the main at 1% slope until it is clear of the storm sewer. It will then be reconnected with a riser and reducer (as need) to the existing lateral. This will be paid for as "6 In., SDR 26 PVC Sanitary Service Lead, SD-TD-2".

If a lateral is encountered in a trench that does not have to be moved to complete the work, this shall be protected. If it is damaged, the contractor shall repair at their own expense.

Question 6: Can the sanitary main CCTV reports be provided with the addendum?

Answer 6: Yes, the CCTV reports are included in this addendum.

Question 7: Can the CAD files be provided with the addendum?

Answer 7: No, but the CAD files may be provided to the awarded contractor upon request.

Question 8: Is the subbase under the new sidewalk on 7th Street paid for as part of the water main trench backfill or as "Subbase, CIP"?

Answer 8: All new sidewalk subbase will be paid for as "Subbase, CIP". This quantity has been updated in the Schedule of Pricing.

Question 9: Can the Lawton Elementary school parking lot and/or the Pioneer High School Nature Area (Greenview and Scio Church) be used as a staging area?

Answer 9: These areas are owned by the Ann Arbor Public Schools; an agreement must be made with them to use the property. Contact Tracy Anderson for the contact information.

Question 10: The MOT plan's phases do not account for the storm sewer on the water main side being stubbed out and capped before the storm sewer can be completed. How is this to be constructed?

Answer 10: The intent was to maintain local traffic in one direction (southbound) on Seventh and S Greenview to minimize interruption to school traffic. The work does not have to be phased per half of the road; traffic may shift to avoid construction activities as long as one lane of traffic is maintained.

The Maintenance of Traffic plan has been updated to allow for S Seventh and S Greenview to be closed (except for local traffic) outside of the school year. The plans show maintaining one-way traffic for local traffic. Bid as proposed. Contractor may submit an alternative traffic control plan, subject to Engineer's approval, after award.

Question 11: The quantities for traffic control devices (Plastic Drums and Type III Barricades) are the total for the project, not one road at a time. Is this correct?

Answer 11: The traffic control devices will depend on phasing. All roads may now be under construction at one time, as amended in the Project Schedule and Payment Detailed Specification. These quantities were added as "worst case scenario".

42" Channelizer cones are included as a contingency amount. The contractor may use channelizer cones INSTEAD of the barrels for traffic control if they choose. The cones shall be placed at the same intervals as the barrels.

Only the traffic control devices used will be paid.

Question 12: How are the water main connections that show new water main in the same location as existing water main (example Lans Way intersection on sheet 28) supposed to be completed and tested?

Answer 12: In areas where the new water main is in the same location as the existing water main, test as much of the new water main as possible without taking the existing main out of service. Once the new main is ready to be connected, the existing main will be shut down and removed. The new main will be swabbed and connected and the existing main will be put back in service, ideally within one day.

The side street connections may be realigned during construction due to unforeseen conditions. The total pipe length and all fittings used will be paid.

Offerors are responsible for any conclusions that they may draw from the information contained in the Addendum.

**Pre-Proposal Meeting  
S Seventh St. and Greenview Dr. Improvements  
February 7, 2024 via Microsoft Teams**

- I. Introductions
  - a. Tracy Anderson – Project Manager
  - b. Inspection will be by City of Ann Arbor
  - c. Construction staking will be by City of Ann Arbor
  
- II. Project Overview
  - a. Work components
    - i. S Seventh Street
      - 1. 12” Water main replacement
      - 2. 12-48” Storm sewer detention north of Greenview
        - a. 2 outlet control structures
      - 3. Widened sidewalk on east side and west side block of school.
      - 4. Road reconfiguration/resurfacing
        - a. Road narrowing 43’ to 30’
        - b. East curb is being moved in 13 feet
    - ii. S Greenview
      - 1. 8” Water main replacement
      - 2. Midblock bump out
      - 3. Storm catch basin replacements
      - 4. Road resurfacing
    - iii. N Greenview
      - 1. 8” Water main replacement
      - 2. 12-48” Storm sewer detention
        - a. Two systems (two watersheds)
        - b. 3 outlet control structures.
      - 3. Road reconfiguration/resurfacing
        - a. Road narrowing 36’ to 30’
        - b. Both curbs are being brought in 3’
        - c. Bump outs at every intersection to 24’ wide
  - b. Engineer’s estimate - \$8.5M
  
- III. General Items
  - a. Standard Specifications – NEW
    - i. Tracer wire
      - 1. Updated details will be included in addendum
    - ii. Bulkheading manholes is included in sewer removal
  - b. Detailed Specifications
    - i. Schedule and sequencing
      - 1. Cannot interrupt services, sequence work accordingly
      - 2. S 7<sup>th</sup> must be complete during summer
    - ii. Grading

1. Earth excavation is included in grading
  - a. Quantity will be provided
- iii. Water main abandonment
  1. Paid for once per road to disconnect and properly abandon the water main from side streets
  2. Example: If you remove the abandoned water main to install storm sewer, you have to properly abandon the remaining water main and this will not be paid for separately.
- iv. Other
  1. Other detailed specs are to clarify pay items, things included in them and materials to use.
- c. Misc. construction items
  - i. Storm water detention
    1. 5 total Vortex valves
  - ii. Curb relocation
- d. Accessibility
  - i. MOT – Designed for one way traffic in phases
    1. Will look into constructability
  - ii. Local Traffic must be maintained
  - iii. Lawton Elementary School
    1. Summer: June 13 – August 26
- e. Davis Bacon Wage Decisions
  - i. 10 days before proposals are due
- f. Addendum
  - i. Answer all questions received
  - ii. Pre-bid meeting minutes
  - iii. Updated bid form
    1. Updated excel file can be provided – email Tracy
  - iv. Minor plan clarifications/details

#### IV. Project Schedule

- a. Written Questions due Monday, February 12, 2024 by 12:00PM
- b. Addendum anticipated by Friday, February 16, 2024
- c. Proposal Due, February 27, 2024 by 11:00AM
- d. Anticipated Council Award, April 15, 2024
- e. Construction Start, April 29, 2024

Important items not discussed in the pre-proposal meeting:

- Garbage day is Thursday for these neighborhoods. The contractor will be responsible for making sure that resident carts are able to be picked up weekly. This may include moving them to and from a location that the waste collection truck is able to access them. This cost is incidental to General Conditions.
- Mail service is walked door to door. Contractor shall ensure that USPS has sufficient space to pass to make their daily deliveries.

- Lawton Elementary School has high traffic for pickup and drop off during the school year. This included buses and passenger vehicles for 15-20 minutes in the morning and the afternoon. This traffic must be accommodated during the school year.

Notes by:

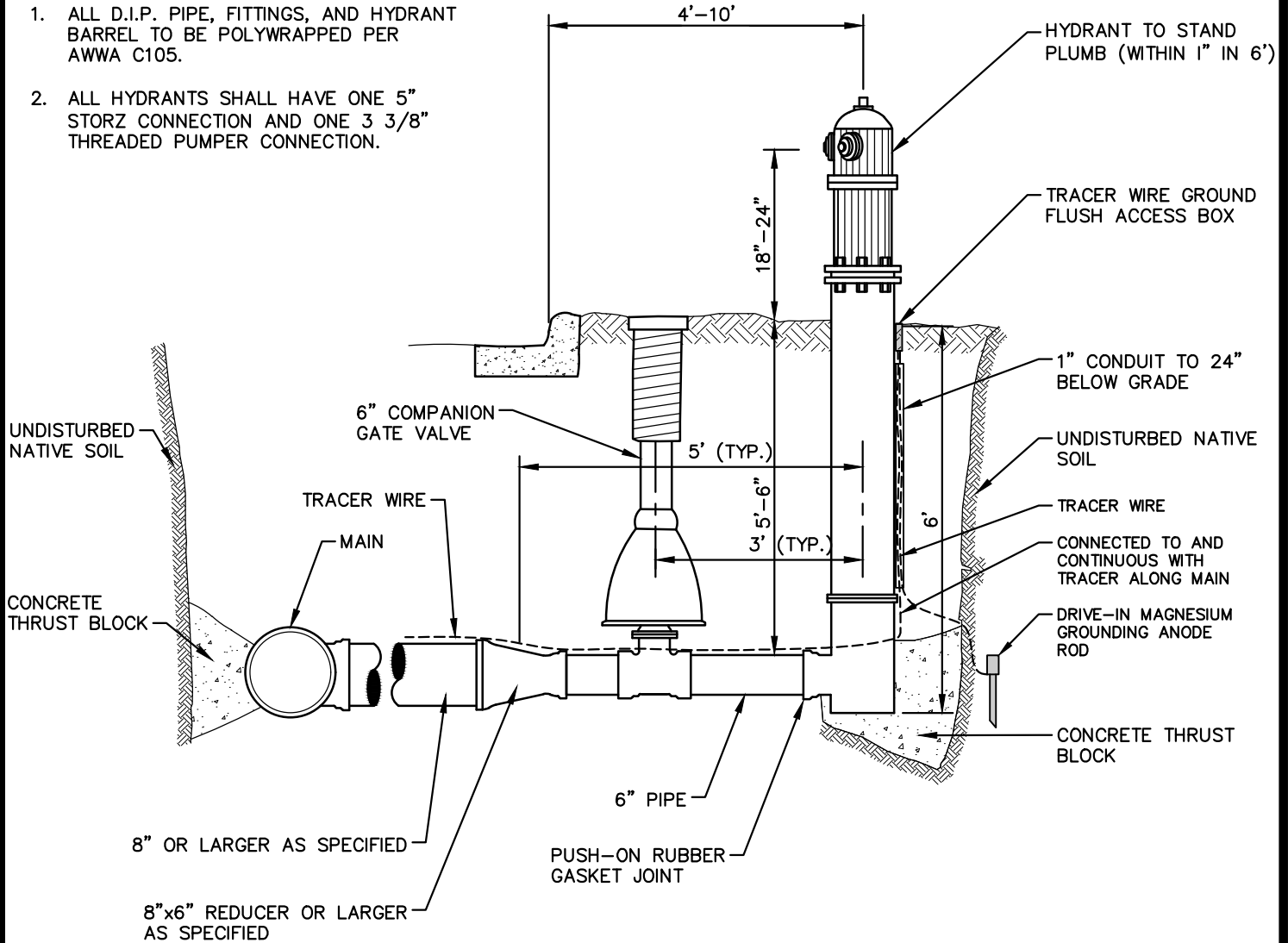
**Tracy Anderson, PE**

[Tanderson@a2gov.org](mailto:Tanderson@a2gov.org)



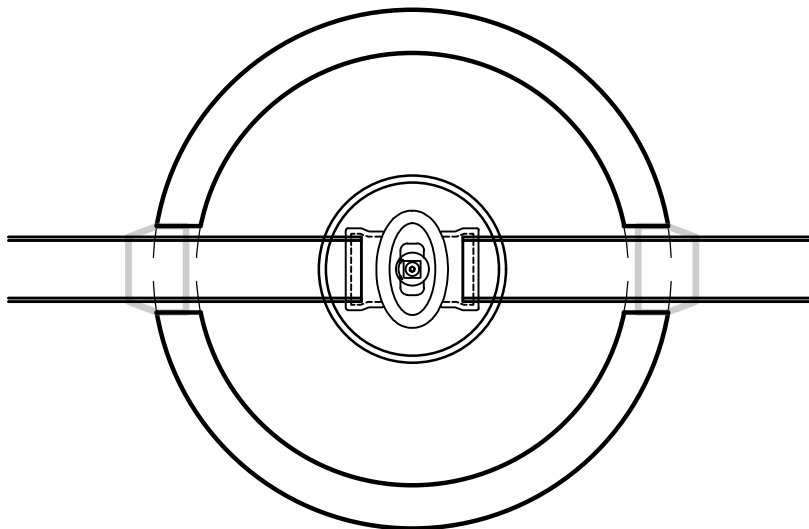
NOTES:

1. ALL D.I.P. PIPE, FITTINGS, AND HYDRANT BARREL TO BE POLYWRAPPED PER AWWA C105.
2. ALL HYDRANTS SHALL HAVE ONE 5" STORZ CONNECTION AND ONE 3 3/8" THREADED PUMPER CONNECTION.

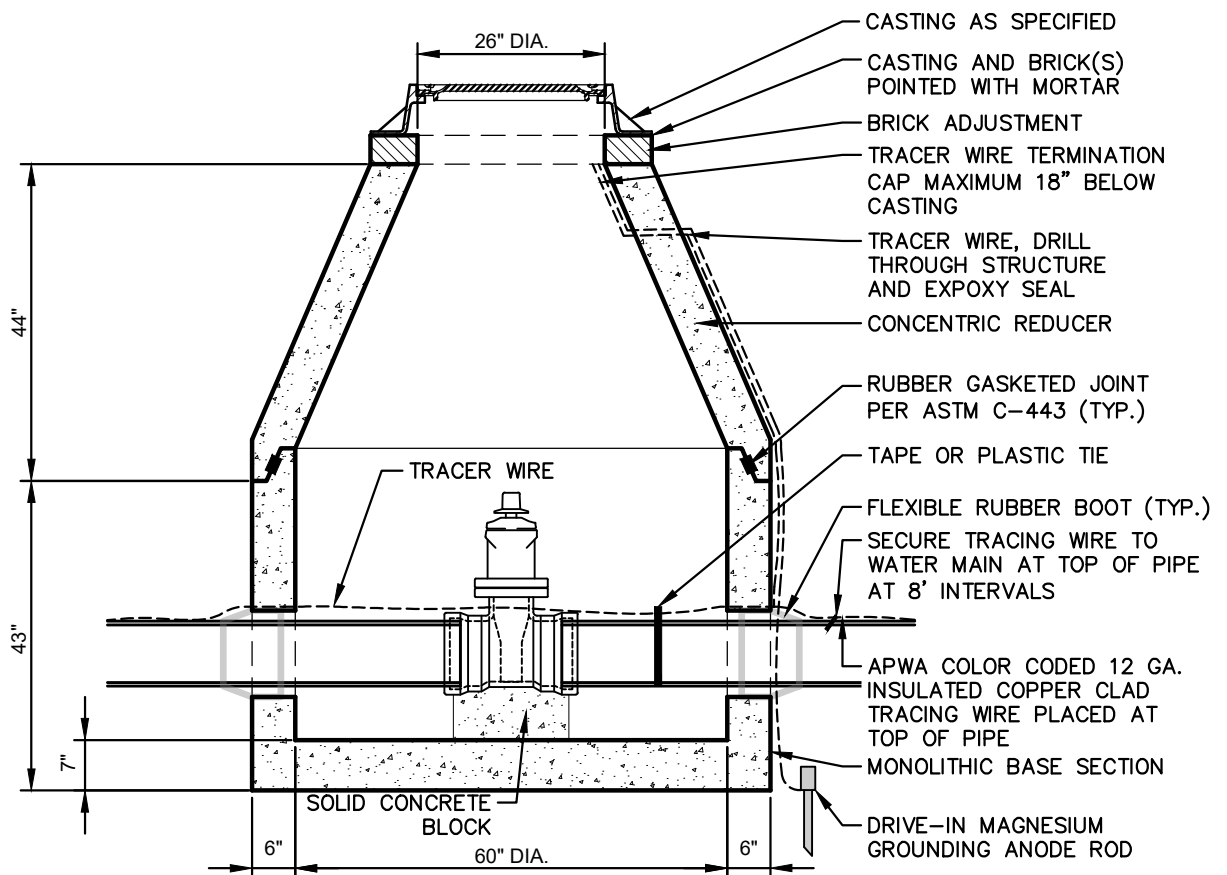


**CITY OF ANN ARBOR  
PUBLIC SERVICES**  
301 EAST HURON STREET  
P.O. BOX 8647  
ANN ARBOR, MI 48107-8647  
734-794-6410  
www.a2gov.org

00	2/5/24	ENG	AA
REV. NO.	DATE	DRAWN BY	CHECKED BY
<b>FIRE HYDRANT ASSEMBLY</b>			
DR. ENG	CH. ENG	DRAWING NO.	
SCALE N.T.S.	DATE 12/8/2023	<b>SD-W-1</b>	



**TOP VIEW**



**TYPICAL MANHOLE SECTION**

**NOTES:**

1. PRECAST MANHOLE PER ASTM C-478.
2. REINFORCING IN WALLS TO BE ONE LAYER OF 2" X 8" W3/W2.9 WELDED WIRE MESH. CIRCUMFERENTIAL REINFORCEMENT = 0.18 SQ. IN./VERT. FT.
3. BASE SLAB TO BE REINFORCED WITH ONE LAYER OF #4 REBAR AT 12" C-C, E.W. AREA/STEEL = .20 SQ. IN./FT E.W.



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www.a2gov.org

00	2/5/24	ENG	AA
REV. NO.	DATE	DRAWN BY	CHECKED BY
<b>PRECAST GATE WELL (WATERMAINS 16 INCH AND SMALLER)</b>			
DR. ENG	CH. ENG	DRAWING NO.	
SCALE N.T.S.	DATE 12/8/2023	<b>SD-W-3</b>	

**E. Schedule of Pricing/Cost – 20 Points**

**Company:**

**Project: S Seventh and Greenview Improvements**

**File #: 2020-031**

**RFP#: 24-08**

ITEM NUMBER	DESCRIPTION	UNIT	ESTIMATED QUANTITY	UNIT PRICE	TOTAL PRICE
<b>01000.00 General</b>					
01000.00	General Conditions, Max. \$315,000	LS	1.00	\$ _____	\$ _____
01001.00	Project Supervision, Max. \$160,000	LS	1.00	\$ _____	\$ _____
01002.00	Project Clean-Up and Restoration	LS	1.00	\$ _____	\$ _____
01003.00	Digital Audio Visual Coverage	LS	1.00	\$ _____	\$ _____
01021.00	Erosion Control, Inlet Protection, Fabric Drop	Ea	40.00	\$ _____	\$ _____
01030.00	Tree Protection Fence	Ft	2,500.00	\$ _____	\$ _____
01040.00	Minor Traffic Control, Max. \$80,000	LS	1.00	\$ _____	\$ _____
01041.00	Traffic Regulator Control	LS	1.00	\$ _____	\$ _____
01050.00	Sign, Type B, Temp, Prismatic, Furn & Oper	Sft	670.50	\$ _____	\$ _____
01051.00	Sign, Type B, Temp, Prismatic, Special, Furn & Oper	Sft	93.00	\$ _____	\$ _____
01052.00	Temporary "No Parking" Sign	Ea	150.00	\$ _____	\$ _____
01070.00	Sign, Portable, Changeable Message, Furn & Oper	Ea	6.00	\$ _____	\$ _____
01080.00	Plastic Drum, High Intensity, Lighted, Furn & Oper	Ea	225.00	\$ _____	\$ _____
01081.00	Channelizer Cone, High Intensity, 42 In., Furn & Oper	Ea	25.00	\$ _____	\$ _____
01092.00	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn & Oper	Ea	45.00	\$ _____	\$ _____
01100.00	Pedestrian Type II Barricade, Temp, Furn & Oper	Ea	10.00	\$ _____	\$ _____
01101.00	Pedestrian Channelizer Device, Furn & Oper	Ea	20.00	\$ _____	\$ _____
01102.00	Temporary Pedestrian Ramp, Furn & Oper	Ea	2.00	\$ _____	\$ _____
01103.00	Temporary Pedestrian Mat, Furn & Oper	Ft	24.00	\$ _____	\$ _____
01124.00	Pavt Mrkg, Wet Reflective, Type R, Tape, Rt Turn Arrow	Ea	2.00	\$ _____	\$ _____
01125.00	Pavt Mrkg, Wet Reflective, Type R, Tape, Thru Arrow	Ea	2.00	\$ _____	\$ _____
01127.00	Pavt Mrkg, Wet Reflective, Type R, Tape, 6 In., White, Temp	Ft	64.00	\$ _____	\$ _____
<b>02000.00 Removals</b>					
02000.01	Tree, Rem, 6 In. - 12 In.	Ea	3.00	\$ _____	\$ _____
02000.03	Tree, Rem, 20 In. - 29 In.	Ea	1.00	\$ _____	\$ _____
02020.00	HMA, Any Thickness, Rem	Syd	25,000.00	\$ _____	\$ _____
02030.00	Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	9,700.00	\$ _____	\$ _____
02040.00	Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Sft	23,620.00	\$ _____	\$ _____
<b>03000.00 Earthwork</b>					
03001.71	DS_Sidewalk Grading	Syd	2,700.00	\$ _____	\$ _____
03001.72	DS_Driveway Grading	Syd	2,000.00	\$ _____	\$ _____
03001.73	DS_Roadway Grading, S Seventh St	Syd	7,500.00	\$ _____	\$ _____
03001.74	DS_Roadway Grading, S Greenview Dr	Syd	3,800.00	\$ _____	\$ _____
03001.75	DS_Roadway Grading, N Greenview Dr	Syd	11,000.00	\$ _____	\$ _____
03021.00	Subgrade Undercutting, Type II	Cyd	100.00	\$ _____	\$ _____
03022.00	Subgrade Undercutting, Type III	Cyd	200.00	\$ _____	\$ _____
03030.01	Exploratory Excavation, SD-TD-1, (0-10' Deep)	Ea	1.00	\$ _____	\$ _____
<b>04000.00 Sanitary Sewer</b>					
04014.01	6 In., SDR 26 PVC Sanitary Service Lead, SD-TD-2	Ft	100.00	\$ _____	\$ _____
04060.00	Sanitary Structure Cover	Ea	24.00	\$ _____	\$ _____
04061.00	Sanitary Structure Cover, Adjust	Ea	24.00	\$ _____	\$ _____

06000.00		Storm and Drainage			
06000.01	12 In., CL IV RCP Storm Sewer, SD-TD-1	Ft	1,816.00	\$	\$
06000.03	18 In., CL IV RCP Storm Sewer, SD-TD-1	Ft	115.00	\$	\$
06000.05	24 In., CL IV RCP Storm Sewer, SD-TD-1	Ft	290.00	\$	\$
06000.07	36 In., CL IV RCP Storm Sewer, SD-TD-1	Ft	100.00	\$	\$
06000.09	48 In., CL IV RCP Storm Sewer, SD-TD-1	Ft	1,200.00	\$	\$
06050.71	DS_Storm Manhole, 48 In. Dia. (0-8' deep)	Ea	3.00	\$	\$
06050.02	Storm Manhole, 48 In. Dia., Additional Depth	Ft	1.89	\$	\$
06050.73	DS_Storm Manhole, 60 In. Dia. (0-8' deep)	Ea	1.00	\$	\$
06050.04	Storm Manhole, 60 In. Dia., Additional Depth	Ft	2.65	\$	\$
06050.75	DS_Storm Manhole, 72 In. Dia. (0-8' deep)	Ea	6.00	\$	\$
06050.06	Storm Manhole, 72 In. Dia. , Additional Depth	Ft	18.51	\$	\$
06060.71	DS_Storm Inlet-Junction, 36 In. Dia., (0-8' deep)	Ea	1.00	\$	\$
06060.73	DS_Storm Inlet-Junction, 48 In. Dia., (0-8' deep)	Ea	4.00	\$	\$
06060.77	DS_Storm Inlet-Junction, 72 In. Dia., (0-8' deep)	Ea	7.00	\$	\$
06060.08	Storm Inlet-Junction, 72 In. Dia., Additional Depth	Ft	16.00	\$	\$
06070.71	DS_Storm Single Inlet, 24 In. Dia., (0-8' deep)	Ea	30.00	\$	\$
06070.02	Storm Single Inlet, 24 In. Dia., Additional Depth	Ft	4.50	\$	\$
06080.71	DS_Storm High Capacity Inlet, 48 In. Dia., (0-8' deep)	Ea	12.00	\$	\$
06080.02	Storm High Capacity Inlet, 48 In. Dia., Additional Depth	Ft	6.50	\$	\$
06090.71	DS_Storm Manhole with Weir, 72 In. Dia. (0-8' deep)	Ea	5.00	\$	\$
06090.02	Storm Manhole with Weir, 72 In. Dia., Additional Depth	Ft	8.70	\$	\$
06100.71	DS_Storm Manhole Over Existing ("Doghouse"), 48 In. Dia.	Ea	3.00	\$	\$
06100.73	DS_Storm Manhole Over Existing ("Doghouse"), 72 In. Dia.	Ea	2.00	\$	\$
06120.03	Storm Sewer Pipe, 12 In. Dia., Rem	Ft	825.00	\$	\$
06140.00	Storm Sewer Structure, Rem	Ea	9.00	\$	\$
06150.00	Storm Sewer Drop Structure, Rem	Ea	20.00	\$	\$
06160.01	Storm Structure Cover	Ea	22.00	\$	\$
06160.02	Storm Structure Cover, Adjust	Ea	22.00	\$	\$
06182.02	Underdrain, Edge, 6 In.	Ft	1,750.00	\$	\$
07000.00		Water Mains			
07000.02	6 In., PC 350 DIP w/polywrap, SD-TD-1	Ft	60.00	\$	\$
07000.03	8 In., PC 350 DIP w/polywrap, SD-TD-1	Ft	4,130.00	\$	\$
07000.05	12 In., PC 350 DIP w/polywrap, SD-TD-1	Ft	1,750.00	\$	\$
07011.01	8 In. 90° DIP Bend	Ea	8.00	\$	\$
07011.02	8 In. 45° DIP Bend	Ea	14.00	\$	\$
07011.03	8 In. 22.5° DIP Bend	Ea	11.00	\$	\$
07011.04	8 In. 11.25° DIP Bend	Ea	4.00	\$	\$
07013.02	12 In. 45° DIP Bend	Ea	2.00	\$	\$
07013.04	12 In. 11.25° DIP Bend	Ea	4.00	\$	\$
07020.03	8 In. X 6 In. DIP Reducer	Ea	19.00	\$	\$
07020.08	12 In. X 6 In. DIP Reducer	Ea	1.00	\$	\$
07030.06	8 In. X 8 In. X 8 In. DIP Tee	Ea	14.00	\$	\$
07030.13	12 In. X 12 In. X 8 In. DIP Tee	Ea	8.00	\$	\$
07030.15	12 In. X 12 In. X 12 In. DIP Tee	Ea	3.00	\$	\$
07050.72	DS_Gate Valve in Box, 8 In.	Ea	5.00	\$	\$
07050.74	DS_Gate Valve in Box, 12 In.	Ea	4.00	\$	\$
07060.72	DS_Gate Valve in Well, 8 In.	Ea	7.00	\$	\$
07060.74	DS_Gate Valve in Well, 12 In.	Ea	5.00	\$	\$
07080.00	Excavate & Backfill For Water Service Tap and Lead	Ft	1,200.00	\$	\$
07100.00	Fire Hydrant Assembly, Complete	Ea	13.00	\$	\$

07102.00	Fire Hydrant Assembly, Rem	Ea	8.00	\$ _____	\$ _____
07110.01	Sacrificial Anode, 17-pound	Ea	10.00	\$ _____	\$ _____
07110.02	Sacrificial Anode, 32-pound	Ea	4.00	\$ _____	\$ _____
07120.00	Gate Box, Adjust	Ea	1.00	\$ _____	\$ _____
07121.00	Curb Box, Adjust	Ea	4.00	\$ _____	\$ _____
07130.01	Temporary Water Main Line Stop, 8 In. or less	Ea	8.00	\$ _____	\$ _____
07130.03	Temporary Water Main Line Stop, 12 In.	Ea	2.00	\$ _____	\$ _____
07131.00	Temporary Water Main Line Stop, Additional Rental Day	Ea	2.00	\$ _____	\$ _____
07141.71	DS_Water Main Pipe, Abandon, Modified, S Seventh St	LS	1.00	\$ _____	\$ _____
07141.72	DS_Water Main Pipe, Abandon, Modified, S Greenview Dr	LS	1.00	\$ _____	\$ _____
07141.73	DS_Water Main Pipe, Abandon, Modified, N Greenview Dr	LS	1.00	\$ _____	\$ _____
07160.02	Gate Valve in Box, 6 In. Dia., Abandon	Ea	7.00	\$ _____	\$ _____
07170.02	Gate Valve in Box, 6 In. Dia., Rem	Ea	1.00	\$ _____	\$ _____
07180.02	Gate Valve in Well, 6 In. Dia., Abandon	Ea	8.00	\$ _____	\$ _____
07180.05	Gate Valve in Well, 12 In. Dia., Abandon	Ea	3.00	\$ _____	\$ _____
<b>08000.00</b>	<b>Streets, Driveways, &amp; Sidewalks</b>				
08000.00	Subbase, CIP	Cyd	285.00	\$ _____	\$ _____
08010.70	Aggregate Base, 4 In., 21AA, CIP	Syd	2,745.00	\$ _____	\$ _____
08010.02	Aggregate Base, 6 In., 21AA, CIP	Syd	1,940.00	\$ _____	\$ _____
08010.03	Aggregate Base, 8 In., 21AA, CIP	Syd	19,500.00	\$ _____	\$ _____
08060.00	Hand Patching	Ton	40.00	\$ _____	\$ _____
08070.14	HMA, 4EL	Ton	4,350.00	\$ _____	\$ _____
08110.00	Conc, Curb or Curb & Gutter, All Types	Ft	7,820.00	\$ _____	\$ _____
08120.01	Conc, Driveway Opening, Type M	Ft	1,920.00	\$ _____	\$ _____
08130.01	Conc, Sidewalk, 4 In.	Sft	18,260.00	\$ _____	\$ _____
08131.71	DS_Conc, Sidewalk, Drive Approach, or Ramp, 6 In.	Sft	17,560.00	\$ _____	\$ _____
08150.00	Detectable Warning Surface	Ft	330.00	\$ _____	\$ _____
08180.04	Pavt Mrkg, Ovly Cold Plastic, Sharrow Sym	Ea	8.00	\$ _____	\$ _____
08200.01	Pavt Mrkg, Polyurea, Bike, Large Sym	Ea	1.00	\$ _____	\$ _____
08200.06	Pavt Mrkg, Polyurea, 12 In., Cross Hatching, Yellow	Ft	100.00	\$ _____	\$ _____
08200.07	Pavt Mrkg, Polyurea, 12 In., Crosswalk	Ft	1,510.00	\$ _____	\$ _____
08200.09	Pavt Mrkg, Polyurea, 24 In., Stop Bar	Ft	256.00	\$ _____	\$ _____
08200.12	Pavt Mrkg, Polyurea, 4 In., Yellow	Ft	420.00	\$ _____	\$ _____
08200.13	Pavt Mrkg, Polyurea, 6 In., White	Ft	625.00	\$ _____	\$ _____
08200.15	Pavt Mrkg, Polyurea, Lt Turn Arrow Sym	Ea	2.00	\$ _____	\$ _____
08245.70	DS_Pavt Mrkg, Polymer Cement, Green, Bike Lane	Sft	600.00	\$ _____	\$ _____
08251.00	Recessing Pavt Mrkg, Longit	Ft	1,040.00	\$ _____	\$ _____
08252.00	Recessing Pavt Mrkg, Transv	Sft	2,025.00	\$ _____	\$ _____
08300.00	Monument Box, Adjust	Ea	3.00	\$ _____	\$ _____
<b>10000.00</b>	<b>Landscaping</b>				
10000.01	Tree, Medium, B&B	Ea	5.00	\$ _____	\$ _____
10000.02	Tree, Large, B&B	Ea	7.00	\$ _____	\$ _____
10050.00	Underground Sprinkling System, Restore	Dlr	4,000.00	\$ _____	\$ _____
10060.00	Turf Restoration	Syd	5,760.00	\$ _____	\$ _____
	<b>Total Estimated Cost</b>			\$ _____	\$ _____

CITY OF ANN ARBOR  
DETAILED SPECIFICATION  
FOR  
**PROJECT SCHEDULE AND PAYMENT**

AA:TCA

1 of 3

2/16/24

**Description**

Examination of Plans, Specifications, and Work Site

Bidders shall carefully examine the Bid Form, plans, specifications, and the work site until the Bidder is satisfied as to all local conditions affecting the contract and the detailed requirements of construction. The submission of the bid shall be considered prima facie evidence that the Bidder has made such examination and is satisfied as to the conditions to be encountered in performing the work and all requirements of the Contract.

The entire work under this Contract shall be completed in accordance with, and subject to, the scheduling requirements as outlined below, and all other requirements of the Contract Documents.

1. The Contractor shall begin the work of this project on or before **April 29, 2024**, and only upon receipt of the fully executed Contract and Notice to Proceed. Appropriate time extensions shall be granted if the Notice to Proceed is delayed beyond this date.
2. This Contract requires water main, storm sewer, sidewalk, road resurfacing and turf establishment, in three (3) locations: S Seventh Street (Delaware to Scio Church), S Greenview (S Seventh to Scio Church), and N Greenview (Scio Church to Stadium) and shall be substantially complete by **November 15, 2024**.
3. S Seventh Street and S Greenview Drive shall be base paved by **August 26, 2024**. Top course paving shall not take place on a weekday after August 26, 2024.
4. Contractor shall maintain at least one-way, southbound traffic through S Seventh and S Greenview until the last day of school (approx. June 13, 2024). After school is out for the summer, the road may be closed to through traffic, but must remain open to local traffic.
5. Contractor shall maintain access for local traffic and shall maintain a drivable surface in all proposed roadways where not actively working.
6. Contractor shall sequence the water and storm sewer installation in a way that does not interrupt service of other utilities.
7. Contractor shall provide all necessary sewer flow control to maintain flow at all existing sewer crossings, connections and lead transfers.
8. No work shall be performed during Holiday weekends as follows, unless approved by the City of Ann Arbor:
  - Memorial Day, from 3:00 p.m. Friday May 24, 2024, through 7:00 a.m. Tuesday May 28, 2024
  - Fourth of July, from 3:00 p.m. Wednesday July 3, 2024, through 7:00 a.m. Friday July 5, 2024

CITY OF ANN ARBOR  
DETAILED SPECIFICATION  
FOR  
**PROJECT SCHEDULE AND PAYMENT**

AA:TCA

2 of 3

2/16/24

- Labor Day, from 3:00 p.m. Friday August 30, 2024 through 7:00 a.m. Tuesday September 3, 2024

9. No work shall be performed during University of Michigan home football games.

City Council approval is expected on or before **April 15, 2023**. The Contractor shall not begin the work without approval from the Project Engineer, and in no case before the receipt of the Notice to Proceed.

Contractor will be furnished with two (2) copies of the Contract, for his/her execution, before the aforementioned City Council meeting. The Contractor shall properly execute both copies of the Contract and return them, with the required Bonds and Insurance Certificate, to the City within **ten (10) days**.

Time is of the essence in the performance of the work of this contract. The Contractor is expected to mobilize sufficient personnel and equipment and work throughout all authorized hours to complete the project by the final completion date. Should the Contractor demonstrate that they must work on some Sundays in order to maintain the project schedule, they may do so between the hours of 9:00 a.m. and 5:00 p.m. with prior approval from the City. There will be no additional compensation due to the Contractor for work performed on Sundays.

Prior to the start of any construction, the Contractor shall submit a detailed schedule of work for the Engineer's review and approval. Work shall not be started until a schedule is approved in writing by the Engineer. The proposed schedule must fully comply with the scheduling requirements contained in this Detailed Specification. The Contractor shall update the approved work schedule upon request by the Engineer and present it to the Engineer within seven days of said request.

Liquidated Damages

Failure to complete all work as specified herein within the times specified herein, including time extensions granted thereto as determined by the Engineer, shall entitle the City to deduct from the payments due the Contractor, **\$2,000.00** in Liquidated Damages, and not as a penalty, for delays in the completion of the work for each and every calendar day beyond the times for each sub-phase, as required by this Detailed Specification.

Liquidated Damages will be assessed until the required work is completed in the current construction season. If, with the Engineer's approval, work is extended beyond seasonal limitations, the assessment of Liquidated Damages will be discontinued until the work is resumed in the following construction season.

**Measurement and Payment**

If the construction Contract is not completed by the specified dates, including any extensions of time granted thereto, at the sole discretion of the City of Ann Arbor, this Contract may be terminated with no additional compensation due to the Contractor, and the Contractor may be

CITY OF ANN ARBOR  
DETAILED SPECIFICATION  
FOR  
**PROJECT SCHEDULE AND PAYMENT**

AA:TCA

3 of 3

2/16/24

forbidden to bid on future City of Ann Arbor projects for a period of at least three (3) years. If the Engineer elects to terminate the Contract, Contract items paid for on a Lump Sum basis shall be paid up to a maximum percentage equal to the percentage of the Contract work that has been completed.

Costs for the Contractor to organize, coordinate, and schedule all of the work of the project, will not be paid for separately, but shall be included in the bid price of the Contract Item "General Conditions, Max \$\_\_\_\_\_".



CITY OF ANN ARBOR  
DETAILED SPECIFICATION  
FOR  
**GRADING**

AA:TCA

1 of 2

2/16/24

**Description**

This work shall consist of furnishing all labor, tools, equipment, and material to shape and prepare all subgrade, subbase, and/or base layers to remain to grades and cross sections indicated on the Plans or as directed by the Engineer. This work shall be performed in accordance with 2024 Public Services Standard Specifications Article 10, Section III.G., except as specified herein.

**Construction**

Access to driveways and entrances may be permitted to be temporarily interrupted provided the Contractor provides at least 24 hours advanced notification to the property owners/tenants and schedules the work to minimize the duration of the interruption.

After all associated removals, the remaining subgrade, subbase, or aggregate base course shall be shaped and prepared to the grades and cross-sections indicated on the plans, including earth excavation, removal, and offsite disposal of any surplus material.

The remaining course shall be proof rolled. All other work (such as undercutting) shall be performed to prepare for the placement of the subsequent course and must be approved by the Engineer.

The contractor shall hone the grade of the final course of subbase or aggregate base for placement of concrete or HMA to the to the grades and cross-sections indicated on the plans.

Table 1 depicts estimated excavation volumes, outside of utility trenches, in the described locations. These volumes were calculated from the existing surface to the proposed subgrade under the proposed base. The volumes of asphalt and concrete removal (paid for separately) ARE included in these calculations.

*Table 1: Estimated Earth Excavation Volumes*

<b>Location</b>	<b>Est. Excavation Volume</b>
Roadway Grading_S Seventh St.	3,490 CY
Roadway Grading_S Greenview Dr	1,185 CY
Roadway Grading_N Greenview Dr	4,270 CY
Grading_Sidewalk (S Seventh St)	440 CY

CITY OF ANN ARBOR  
 DETAILED SPECIFICATION  
 FOR  
**GRADING**

AA:TCA

2 of 2

2/16/24

**Measurement And Payment**

The completed work, as described, will be measured and paid for at the contract unit price using the following pay item:

<b>Pay Item</b>	<b>Pay Unit</b>
DS_Sidewalk Grading.....	Square Yards
DS_Driveway Grading .....	Square Yards
DS_Roadway Grading, _____ .....	Square Yards

**DS\_Sidewalk Grading** will be measured in the unit above for the area of required subbase or aggregate base for new sidewalk and new sidewalk ramps. This item shall be paid when final grading of the subbase or aggregate base is complete.

**DS\_Driveway Grading** will be measured in the unit above for the area of required aggregate base for new driveways, including new sidewalk through driveways. This item shall be paid when final grading of the aggregate base is complete.

**DS\_Roadway Grading, \_\_\_\_\_** will be measured in the unit above for the area disturbed to construct the associated roadway and any new curb. Area will be measured from the edge of metal of remaining curb to 1 foot beyond the back of new curb. This item shall be paid when final grading of the base is complete.

Areas where the existing grade is to be cut to achieve the proposed subgrade elevation (cut-sections) will not be paid for separately. The removal and offsite disposal of cut-section materials required to meet specified grades and cross sections shall be included in **DS\_ \_\_\_\_\_ Grading, \_\_\_\_\_**.

Removal of pavement, curb, sidewalk, driveways, and ramps; trench backfill, subgrade undercuts; placement and compaction of subbase and aggregate base; and turf establishment shall be paid as part of separate pay items.



# CITY OF ANN ARBOR ENGINEERING

## S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS

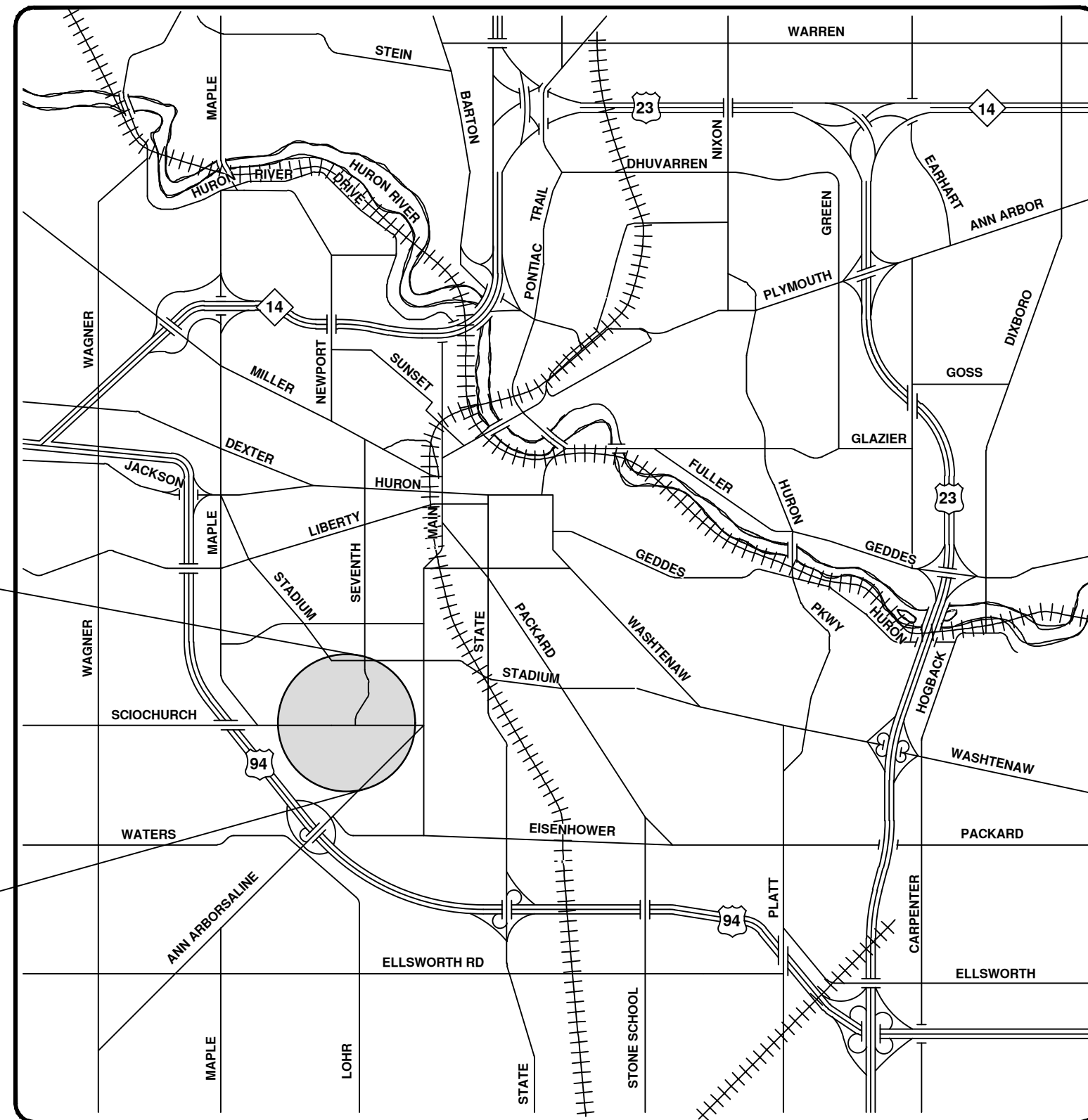
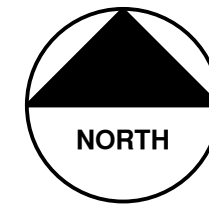
RFP No. 24-08, FILE No. 2020031

### NOTES

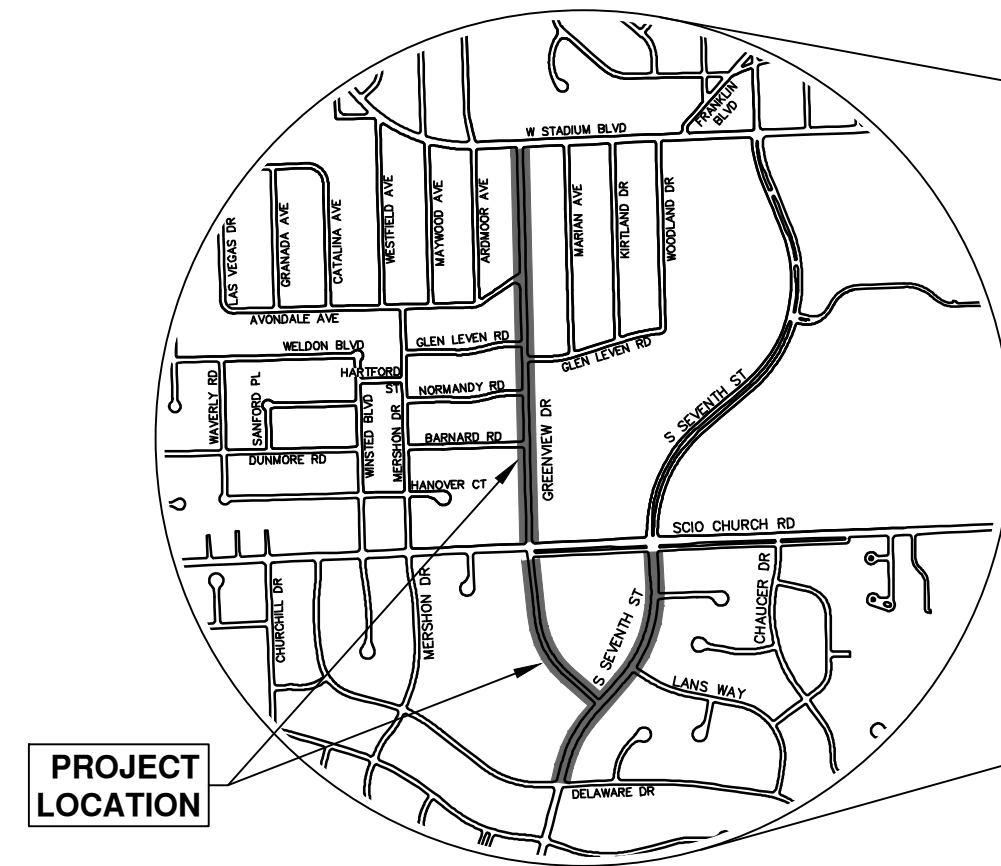
FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 174 OF 2013, THE CONTRACTOR SHALL CALL 811 OR 1-800-482-7171 A MINIMUM OF THREE FULL WORKING DAYS, EXCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS, PRIOR TO BEGINNING EACH EXCAVATION IN AREAS WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY LOCATED. MEMBERS WILL THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

THE UNDERGROUND LOCATIONS SHOWN FOR NATURAL GAS, TELEPHONE, ELECTRICAL POWER, CABLE TV AND FIBER OPTIC LINES ARE APPROXIMATE. THE CITY OF ANN ARBOR ASSUMES NO RESPONSIBILITY FOR THEIR ACCURATE REPRESENTATION IN THIS DRAWING. MISS DIG MUST BE CONTACTED PRIOR TO CONSTRUCTION TO LOCATE THESE UTILITIES.

THE CONSTRUCTION COVERED BY THESE PLANS SHALL CONFORM TO THE CITY OF ANN ARBOR PUBLIC SERVICES AREA DESIGN STANDARDS AND CONSTRUCTION SPECIFICATIONS ("STANDARDS"). THE OMISSION OF ANY STANDARD DETAIL DOES NOT RELIEVE THE CONTRACTOR OF THEIR OBLIGATION TO CONSTRUCT ITEMS IN COMPLETE ACCORDANCE WITH THOSE STANDARDS.



VICINITY MAP



PROJECT LOCATION

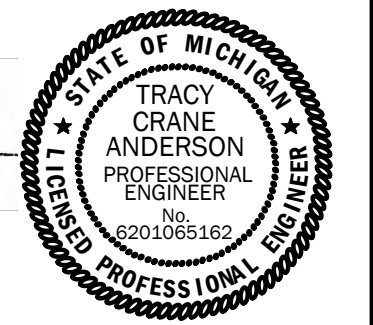
Sheet List Table	
Sheet #	Sheet Title
1	Cover Sheet
2	Standard Notes
3	Legend
Typical Sections	
4	S Seventh Street
5	Greenview Drive South
6	Greenview Drive North
7	Alternate Pedestrian Route (APR) Detour
8	Alternate Pedestrian Route (APR) Bypass
9	TPAR Ramps
10	TPAR Walkway Devices
11	Misc. Details
Detour Route - S. Seventh Street	
Traffic Control Phase II Stage I - S. Seventh St.	
13	Sta. 4+00 - Sta. 20+00
Traffic Control Phase II Stage II - S. Seventh St.	
14	Sta. 4+00 - Sta. 20+00
Traffic Control Phase I Stage I - Greenview Drive South	
15	Sta. 3+00 - Sta. 14+76
Traffic Control Phase I Stage II - Greenview Drive South	
16	Sta. 5+00 - Sta. 14+76
17	Detour Route - Greenview Drive North
Traffic Control - Greenview Drive North	
Traffic Control	
Removals - S. Seventh Street	
19	Sta. 4+00 - Sta. 11+25
20	Sta. 11+25 - Sta. 19+18
Removals - Greenview Drive South	
21	Sta. 3+66 - Sta. 11+50
22	Sta. 11+50 - Sta. 14+24
Removals - Greenview Drive North	
23	Sta. 0+00 - Sta. 9+50
24	Sta. 9+50 - Sta. 18+50
25	Sta. 18+50 - Sta. 26+66
Water Main - S. Seventh Street	
26	Sta. 0+50 - Sta. 5+25
27	Sta. 5+25 - Sta. 9+25
28	Sta. 9+25 - Sta. 13+25
29	Sta. 13+25 - Sta. 17+50
Water Main - Greenview Drive South	
30	Sta. 0+00 - Sta. 4+00
31	Sta. 4+00 - Sta. 8+00
32	Sta. 8+00 - Sta. 11+28
Water Main - Greenview Drive North	
33	Sta. 0+97 - Sta. 5+00
34	Sta. 5+00 - Sta. 9+00
35	Sta. 9+00 - Sta. 13+00
36	Sta. 13+00 - Sta. 17+00
37	Sta. 17+00 - Sta. 21+50
38	Sta. 21+50 - Sta. 26+13
Storm Sewer Plan & Profile - S. Seventh Street	
39	R100-S R101 R102 R103 R114 R115
40	R110 R111 R112 R113 R116
Storm Sewer Plan & Profile - S. Seventh St & Greenview Dr South	
41	R100-N R104 R105 R106 R117 R118
42	R107 R108 R119 R121 R122
43	R123 R124 R125 R126 R127 R128

Storm Sewer Plan & Profile - Greenview Dr North	
44	R200 R201 R202 R204 R208
45	R210 R211 R205 R206 R207 R209 R326 R327
46	R300 R317 R318 R319 R320 R321 R322 R334 R335 R336
47	R300 R301 R302 R303 R304
48	R309 R310 R311 R312 R331 R332 R333
49	R305 R306 R307
50	R313 R314 R315 R328 R329 R330
51	R308 R316
Road Plan & Profile - S. Seventh Street	
52	Sta. 2+00 - Sta. 7+75
53	Sta. 7+75 - Sta. 11+25
54	Sta. 11+25 - Sta. 15+50
55	Sta. 15+50 - Sta. 19+50
Road Plan & Profile - Greenview Drive South	
56	Sta. 3+00 - Sta. 7+50
57	Sta. 7+50 - Sta. 11+50
58	Sta. 11+50 - Sta. 14+24
Road Plan & Profile - Greenview Drive North	
59	Sta. 0+00 - Sta. 5+00
60	Sta. 5+00 - Sta. 9+50
61	Sta. 9+50 - Sta. 14+00
62	Sta. 14+00 - Sta. 18+50
63	Sta. 18+50 - Sta. 23+00
64	Sta. 23+00 - Sta. 26+50
Intersection Grades - S. Seventh St & Greenview Dr South	
65	Greenview & S. Seventh
66	S. Seventh & Brasiepi Pl, Greenview Mid Block
Intersection Grades - Greenview Drive North	
67	Barnard Rd Normandy Rd
68	Glen Leven Rd
69	Avondale Ave W. Stadium Blvd
Pavement Markings - S. Seventh Street	
70	Sta. 3+00 - Sta. 11+50
71	Sta. 11+50 - Sta. 21+00
Cross-sections - S. Seventh Street	
72	Sta. 3+50 - Sta. 5+25
73	Sta. 5+50 - Sta. 7+25
74	Sta. 7+50 - Sta. 9+50
75	Sta. 9+75 - Sta. 11+00
76	Sta. 11+25 - Sta. 13+25
77	Sta. 13+50 - Sta. 15+25
78	Sta. 15+50 - Sta. 18+00
79	Sta. 18+25 - Sta. 18+75
Cross-sections - Greenview Drive South	
80	Sta. 3+50 - Sta. 6+25
81	Sta. 6+50 - Sta. 9+25
82	Sta. 9+50 - Sta. 12+25
83	Sta. 12+50 - Sta. 13+00
Cross-sections - Greenview Drive North	
84	Sta. 1+00 - Sta. 3+75
85	Sta. 4+00 - Sta. 7+50
86	Sta. 7+75 - Sta. 10+50
87	Sta. 10+75 - Sta. 14+00
88	Sta. 14+25 - Sta. 16+25
89	Sta. 16+50 - Sta. 20+25
90	Sta. 20+50 - Sta. 22+50
91	Sta. 22+75 - Sta. 24+75
92	Sta. 25+00 - Sta. 25+50

PREPARED UNDER THE SUPERVISION OF

*Tracy Anderson*  
TRACY ANDERSON, P.E. - MI LICENSE No. 6201065162  
PROJECT MANAGER

01/30/2024  
DATE



CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

This project includes water main replacement, storm water management improvements, road-narrowing, new sidewalk, and resurfacing within the limits of disturbance of S. Seventh Street from Delaware Dr. to Scio Church Rd. (0.3 miles) and [N] Greenview Dr from Scio Church Rd. to W Stadium Blvd. (0.5 miles). It also included water main replacement and resurfacing with the limits of disturbance of [S] Greenview Dr. from S. Seventh Dr. to Scio Church Rd. (0.2 miles).

SHEET No.

1 OF 92



CITY OF ANN ARBOR  
PUBLIC SERVICES  
301 EAST HURON STREET  
PO BOX 8647  
ANN ARBOR MI 48106-8647  
www.a3gov.org

REV.	DATE	DESCRIPTION
01	2-14-24	ADDENDUM 1
00	1-30-24	BID SET
		DRAWN
		CHECKED



R:\2020031 S 7th Street\Plan Production\2020031Cov.dwg -\_a2 standard bw.stb - Plot Date: 2/14/2024 2:48:50 PM

**CONSTRUCTION NOTES:**

1. Driveways and entrances to buildings, real property, and the like shall not be blocked except for short durations and only when approved by the Engineer. Vehicular and pedestrian access shall be maintained at all times. It shall be the Contractor's responsibility to coordinate all necessary driveway closures with the property owner(s) and resident(s) in the areas of construction.
2. The location and depth of all existing utilities and service leads are to be field verified by the Contractor prior to construction.
3. Location and depth of utilities as depicted on the plans is approximate and shown according to the best information available. It is the Contractor's responsibility to excavate ahead and adjust depth of conflict utilities accordingly. Any damage to utilities is the Contractor's responsibility to avoid and/or repair as necessary.
4. The Contractor is to take special care to protect the existing water main and be responsible for maintaining consistent water service.
5. During non-working hours no trench shall remain open; any open trench shall be properly secured with protective fencing. This work shall be included in the item of work "General Conditions".
6. Trenches for new water services shall be excavated to MIOASHA and City of Ann Arbor Public Works requirements.
7. City of Ann Arbor Public Works will install the corporation and copper service lead(s) to transfer the connection(s). If an existing water service is found to be failing or is not copper, the lead will be replaced to the curb box by Public Works.
8. For the installation of corporations, or any other related activities, the Contractor shall not receive additional compensation for delays due to the scheduling of or coordination with the City of Ann Arbor Public Works.
9. The Contractor shall backfill trenches in accordance with Trench Detail specified on plans. This work shall be included in the item of work "Excavate and Backfill for Water Service Tap and Lead". All concrete removals and replacements required for this work will be paid for separately.
10. Water main fittings, other than those specifically listed as separate pay items, which are required to complete the work, such as blow-off assemblies, concrete thrust blocks, solid sleeves and mechanical plugs, shall not be paid for separately, but shall be included in the pipe pay items.
11. "No Parking" signs shall be installed by the Contractor at locations as approved or directed by the Engineer. All signs shall be installed in accordance with the detailed specifications.
12. Postal delivery and refuse pickup service shall be maintained at all times by the Contractor.
13. All fittings, hydrants, valves and castings removed during construction are the property of the City of Ann Arbor. The Contractor within 48 hours shall deliver to City of Ann Arbor Public Works Facility at the W.R. Wheeler Service Center located at 4251 Stone School Road.
14. Where street curbs are undermined due to construction activities, they shall be removed and replaced as directed by the Engineer.
15. The Contractor shall be responsible for the continuous maintenance of the temporary road surface and soil erosion control measures within the construction area until the full completion of the project. This work shall be included in the item of work "General Conditions".
16. All curb, sidewalk, driveway approach removals shall be approved by Engineer before the work is done.
17. The location of material stock piles and on-site staging areas to be approved by the Engineer.
18. All structures shall receive new castings as directed by the Engineer, as specified on the standard casting schedule. The existing castings are the property of the City of Ann Arbor. The Contractor shall deliver to City of Ann Arbor Public Works Facility at the W.R. Wheeler Service Center located at 4251 Stone School Road.
19. Existing street name, guide, and regulatory signs, and mailboxes which conflict with the proposed construction shall be removed prior to construction, stored in a manner which will prevent damage, and re-set in locations as directed by the Engineer.

SOUTH SEVENTH STREET BENCHMARKS		
BM #	ELEV	DESCRIPTION
1	927.02	R.R. SPIKE IN WEST SIDE OF POWER POLE AT N.E. CORNER OF S. SEVENTH STREET AND SCIO CHURCH ROAD
2	925.06	CHISLED SQUARE ON EAST SIDE OF CONC. BASE OF ANTENNA/RADAR ON WEST SIDE OF S. SEVENTH STREET IN FRONT OF ADDRESS #2046.
3	927.12	R.R. SPIKE IN WEST SIDE OF POWER POLE ON EAST SIDE OF S. SEVENTH STREET, NEAR S. PROP. LINE OF ADDRESS #2079
4	923.43	R.R. SPIKE IN WEST SIDE OF POWER POLE @ N.E. CORNER OF S. SEVENTH STREET AND LANS WAY
5	927.61	R.R. SPIKE IN WEST SIDE OF POWER POLE ON EAST SIDE OF S. SEVENTH STREET ACROSS FROM GREENVIEW DRIVE IN BETWEEN ADDRESSES #2189 AND #2207
6	914.55	NAIL IN W. SIDE OF P.P. ACROSS FROM S. ENTRANCE OF LAWTON ELEMENTARY

GREENVIEW DRIVE (SOUTH) BENCHMARKS		
BM #	ELEV	DESCRIPTION
10	927.84	S.E. CORNER BOLT ON LIGHT POLE, WEST SIDE OF GREENVIEW DR. BETWEEN HOUSE #S 2144 & 2128
11	927.95	S.E. CORNER BOLT ON LIGHT POLE, WEST SIDE OF GREENVIEW DR. ON THE SOUTH PROPERTY LINE EXTENDED OF HOUSE #2096
12	930.05	S.E. CORNER BOLT ON LIGHT POLE, WEST SIDE OF GREENVIEW DR. ON THE SOUTH PROPERTY LINE EXTENDED OF HOUSE #2016

GREENVIEW DRIVE (NORTH) BENCHMARKS		
BM #	ELEV	DESCRIPTION
1	944.464	RR SPIKE IN EAST SIDE OF P.P., ON THE WEST SIDE OF GREENVIEW, IN FRONT OF THE WESTMINISTER PRESBYTERIAN CHURCH SCHOOL ENTRANCE
2	947.964	RR SPIKE IN EAST SIDE OF P.POLE, SW CORNER OF GREENVIEW & BARNARD
3	938.080	RR SPIKE IN WEST SIDE OF P.POLE, NE CORNER OF GREENVIEW & GLEN LEVEN
4	931.982	(SCIO CHURCH TOPO) SE BOLT ON LIGHT POLE AT THE NW CORNER OF GREENVIEW & SCIO CHURCH
5	940.188	RR SPIKE IN WEST SIDE OF P.POLE, EAST SIDE OF GREENVIEW, BETWEEN HOUSE #S 1573 & 1561
6	949.888	PK NAIL IN WEST SIDE OF P.POLE, EAST SIDE OF GREENVIEW, IN FRONT OF HOUSE #1485
7	953.383	CHISELED SQUARE ON TOP OF CONCRETE, EAST SIDE OF LIGHT POLE, SW COR OF STADIUM & GREENVIEW

IMPERVIOUS PROJECT AREA	
PRIOR TO CONSTRUCTION = 4.67 ACRES	POST CONSTRUCTION = 3.99 ACRES

AREA OF PROPOSED DISTURBANCE = 6.54 ACRES
---

PERMITS REQUIRED TO BE OBTAINED BY THE CONTRACTOR PRIOR TO THE BEGINNING OF CONSTRUCTION.	
PERMIT	ISSUING AUTHORITY
LANE CLOSURE PERMIT*	CITY OF ANN ARBOR ENGINEERING
*NO PARKING* SIGNS PERMIT*	CITY OF ANN ARBOR ENGINEERING
GRADING/SOIL EROSION & SEDIMENTATION CONTROL PERMIT*	CITY OF ANN ARBOR CUSTOMER SERVICE
RIGHT-OF-WAY PERMIT*	CITY OF ANN ARBOR CUSTOMER SERVICE
* NO COST TO CONTRACTOR	

PERMITS REQUIRED TO BE OBTAINED BY THE CITY OF ANN ARBOR PRIOR TO THE BEGINNING OF CONSTRUCTION.	
PERMIT	ISSUING AUTHORITY
EGLE WATER MAIN CONSTRUCTION PERMIT	MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY
EGLE SANITARY SEWER CONSTRUCTION PERMIT	MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

CONTACT INFORMATION		
PUBLIC UTILITIES	OWNER	CONTACT
WATER	CITY OF ANN ARBOR PUBLIC WORKS W.R. WHEELER SERVICE CENTER 4251 STONE SCHOOL ROAD ANN ARBOR, MI 48108	(734) 794-6350
SANITARY		
STORM		
FORESTRY		
SIGNS SIGNALS STREET LIGHTS		MARK MORENO (734) 794-6361
FIBER OPTIC	CITY OF ANN ARBOR INFORMATION TECHNOLOGY LARCUM CITY HALL 301 E. HURON STREET ANN ARBOR, MI 48107	(734) 794-6550
PRIVATE UTILITIES	OWNER	CONTACT
GAS	DTE ENERGY 3150 E. MICHIGAN AVE, YPSILANTI TOWNSHIP, MI 48198	ROBERT CZAPIEWSKI (734) 544-7818
ELECTRIC	DTE ENERGY WESTERN WAYNE SERVICE CENTER 8001 HAGGERTY ROAD BELLEVILLE, MI 48111	ANTHONY IGNASIAK (734) 397-4447
CABLE	COMCAST 27800 FRANKLIN ROAD SOUTHFIELD, MI 48034	RON SOUTHERLAND (313) 999-8300
PHONE	AT&T 550 S. MAPLE ROAD ANN ARBOR, MI 48103	STEVEN ALLSHOUSE (734) 996-5381
FIBER OPTIC	MCI 2800 N. GLENFILLE ROAD RICHARDSON, TX 75082	DEAN BOYERS (972) 729-6016
FIBER OPTIC	WINDSTREAM 1295 S LINDEN ROAD, SUITE B FLINT, MI 48532	GREG SERICH (810) 244-3500
STREET LIGHTING	DTE ENERGY 8001 HAGGERTY ROAD BELLEVILLE, MI 48111	LANCE ALLEY (734) 397-4188



Know what's below.  
Call before you dig.

			TA	TA					
			A2D	A2D					
			2-14-24	1-30-24					
			ADDENDUM 1	BID SET					
			01	00					REV.



CITY OF ANN ARBOR  
PUBLIC SERVICES  
301 EAST HURON STREET  
ANN ARBOR, MI 48106-8647  
ANN ARBOR, MI 48106-8647  
www.a2gov.org

**S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS**

STANDARD NOTES

SCALE: NTS

DRAWING No. 2020031-2

SHEET No. 2 OF 92

**EXISTING LEGEND**

- FIRE HYDRANT
- GATE VALVE IN BOX
- GATE VALVE IN WELL
- STOP BOX
- WATER VAULT
- WELL
- CATCH BASIN (SQ)
- CATCH BASIN (RD)
- STORM MANHOLE
- NON-CURB CATCH BASIN (SQ)
- END SECTION
- SANITARY MANHOLE
- CLEAN-OUT
- POST
- PEDESTRIAN SIGNAL
- SIGN
- HAND HOLE
- ORNAMENTAL LIGHT
- FLOOD LIGHT
- UNKNOWN MANHOLE
- TELEPHONE MANHOLE
- TELEPHONE RISER
- GAS VALVE
- GAS VENT
- GAS BOX
- ELECTRICAL RISER
- TRANSFORMER
- UTILITY POLE
- LAMP POLE
- GUY ANCHOR
- GUY POLE
- MONITORING WELL
- MAILBOX
- SOIL BORING
- TRAVERSE POINT
- BENCH MARK
- IRON PIPE
- MON BOX

- WATER MAIN
- WATER MAIN ABANDONED
- STORM SEWER
- STORM SEWER ABANDONED
- SANITARY SEWER
- SANITARY SEWER ABANDONED
- GAS MAIN
- GAS MAIN (DEAD)
- ELECTRICAL OVER HEAD
- ELECTRICAL UNDER GROUND
- ELECTRICAL DUCT BANK
- TELEPHONE OVER HEAD
- TELEPHONE UNDER GROUND
- TELEPHONE DUCT BANK
- CABLE TV OVER HEAD
- CABLE TV UNDER GROUND
- FIBER OPTIC
- FIBER OPTIC DUCT BANK
- BOUNDARY
- BUILDING
- CENTERLINE OF DITCH
- CENTERLINE/CROWN OF ROAD
- CONTOUR MAJOR
- CONTOUR MINOR
- EDGE OF WATER
- FLOODPLAIN
- FENCE
- GRAVEL
- GUARDRAIL
- STONE WALL
- R.O.W.
- TREELINE
- WETLAND
- EDGE OF BRUSH
- HEDGE

- TREE (DECIDUOUS)
- TREE (CONIFEROUS)
- SHRUB (DECIDUOUS)
- STUMP
- TREE TO REMAIN & PROTECT (DECIDUOUS)  
CRITICAL ROOT ZONE (C.R.Z.) = DIAMETER BREST HEIGHT (INCHES) X 10
- TREE TO REMAIN & PROTECT (CONIFEROUS)  
CRITICAL ROOT ZONE (C.R.Z.) = DIAMETER BREST HEIGHT (INCHES) X 10

**PROPOSED LEGEND**

- HYDRANT (PLAN)
- WATER GATE WELL
- REDUCER
- WATER GATE VALVE
- WATER STOP BOX
- WATER VAULT
- INLET
- DOUBLE INLET
- INLET JUNCTION CHAMBER
- ROUND CATCH BASIN
- STORM MANHOLE
- DRAIN ARROW
- FLARED END SECTION
- SANITARY MANHOLE
- CLEAN-OUT
- SIGN
- PUSH BUTTON
- HAND HOLE
- WATER MAIN
- STORM SEWER
- SANITARY SEWER
- FIBER OPTIC
- ELECTRICAL
- CENTERLINE OF DITCH
- CENTERLINE OF ROAD
- FENCE
- GRAVEL
- SILT FENCE
- PROTECTIVE FENCE
- GUARDRAIL
- LOT/UNIT
- CURB
- TEMPORARY GRADING PERMIT
- CONTOUR MAJOR
- CONTOUR MINOR
- WATER EASMENT
- STORM EASEMENT
- SANITARY EASEMENT
- R.O.W.
- LIMITS OF CONSTRUCTION
- LIMIT OF GRADING
- STONE WALL

- DETECTABLE WARNING
- ASPHALT
- CONCRETE
- SIDEWALK
- TREE (DECIDUOUS)
- TREE (CONIFEROUS)
- TREE TO BE REMOVED (DECIDUOUS)
- TREE TO BE REMOVED (CONIFEROUS)
- STUMP TO BE REMOVED

**CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING**

**S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS**

SCALE: NTS

DRAWING No. 2020031-3

SHEET No. 3 OF 92

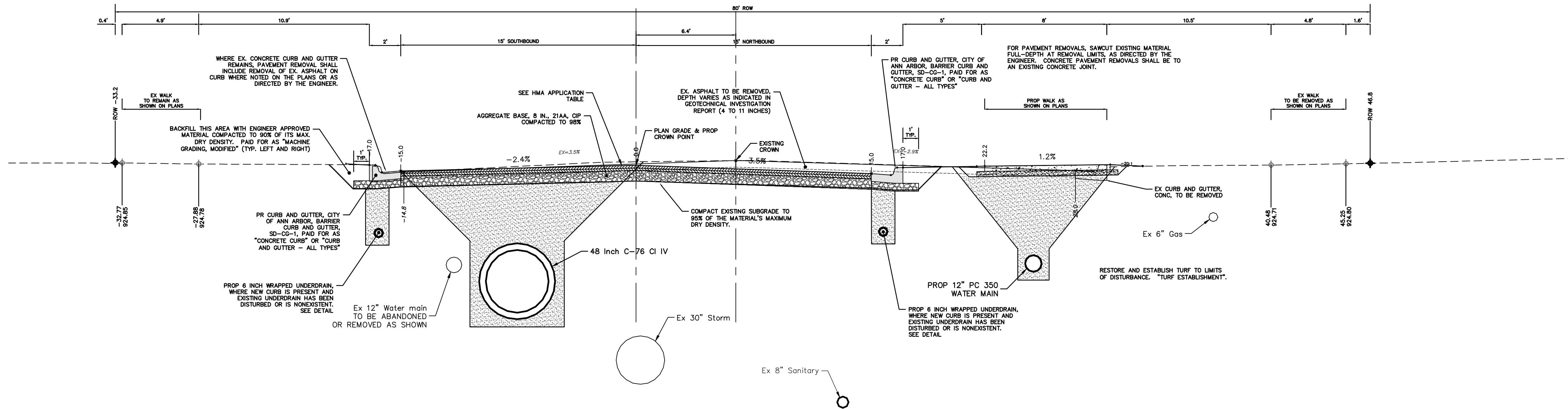
LEGEND

Know what's below.  
Call before you dig.

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		DRAWN
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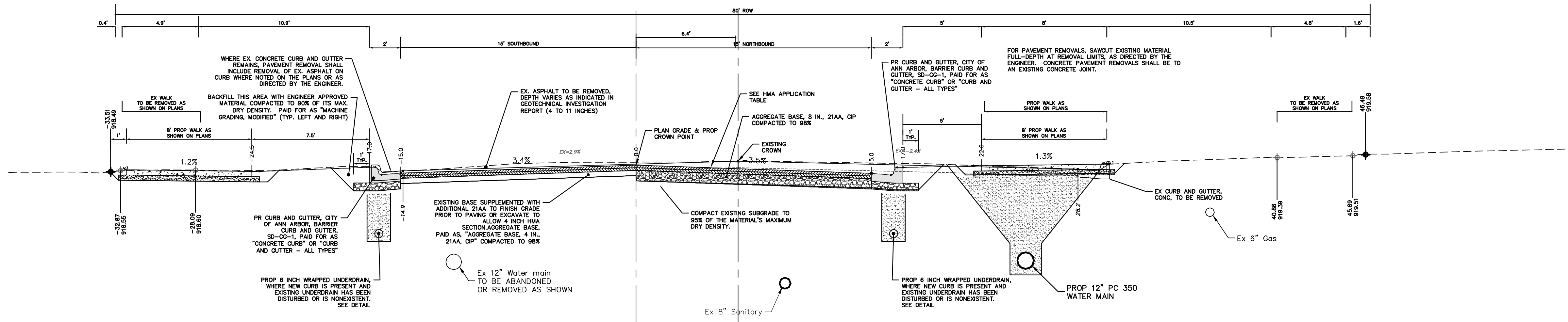
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SEVENTH STREET - 8+35 TO POE  
TYPICAL SECTION

HMA APPLICATION ESTIMATE						
HMA PAVEMENT	HMA MIX	RATE OF APPLICATION	THICKNESS (INCHES)	AWI (MIN.)	BINDER	LOCATION/NOTES
HMA PAVEMENT TOP	4EL	220 LB/SYD	2.0	220 (TOP)	PG 58-28	TOP COURSE
HMA PAVEMENT LEVELING	4EL	220 LB/SYD	2.0	-	PG 58-28	LEVELING COURSE
HMA APPROACH TOP	4EL	220 LB/SYD	2	220 (TOP)	PG 58-28	TOP COURSE
HMA APPROACH LEVELING	4EL	220 LB/SYD	2	-	PG 58-28	LEVELING COURSE
HAND PATCHING	4EL	0 - 440 LB/SYD			PG 58-28	HAND PATCHING
ASPHALT EMULSION	SS-1h	0.05 - 0.15 GAL/SYD				INCLUDE IN COST OF HMA ITEM



SEVENTH STREET - POB TO 8+35  
TYPICAL SECTION



REV.	DATE	DESCRIPTION
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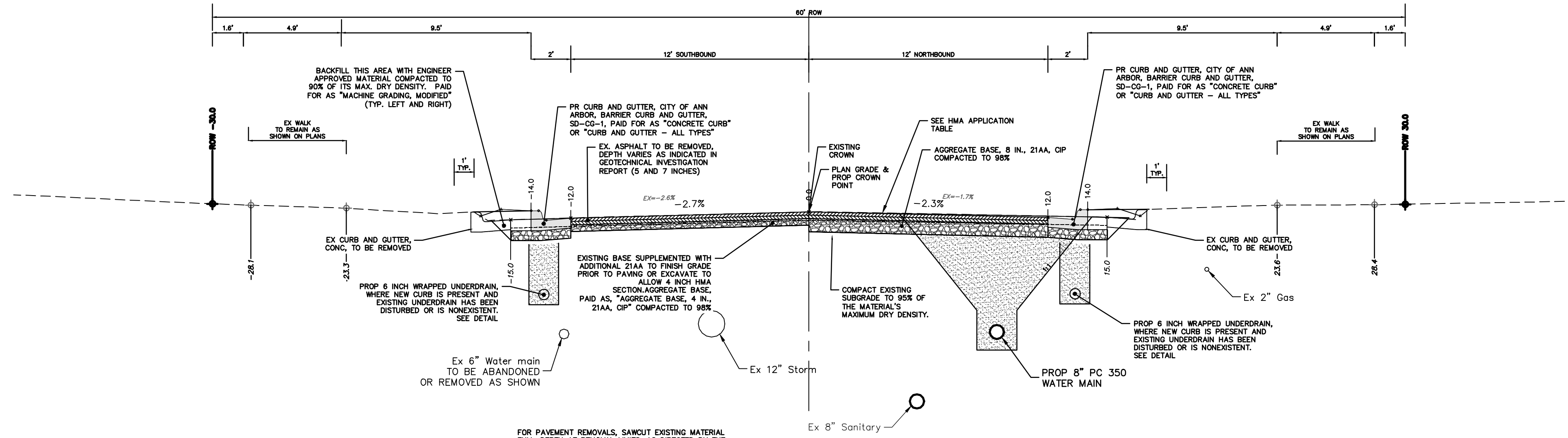
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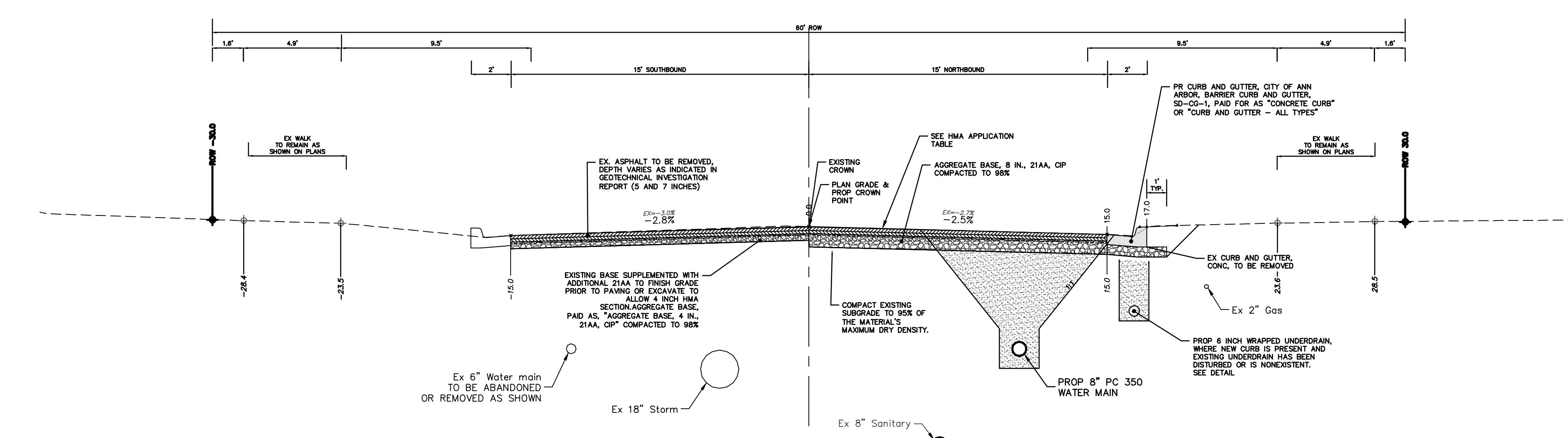
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S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS  
TYPICAL SECTIONS  
S SEVENTH STREET

SCALE PLAN: 1" = 4'  
PROFILE: 1" = 4'  
DRAWING No. 2020031-4  
SHEET No. 4 OF 92

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**GREENVIEW DRIVE (SOUTH) - MIDBLOCK  
TYPICAL SECTION**



**GREENVIEW DRIVE (SOUTH)  
TYPICAL SECTION**



REV.	DATE	DESCRIPTION
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00	BID SET	
	1-30-24	DRAWN
	2-14-24	A2D
		TA
		TA
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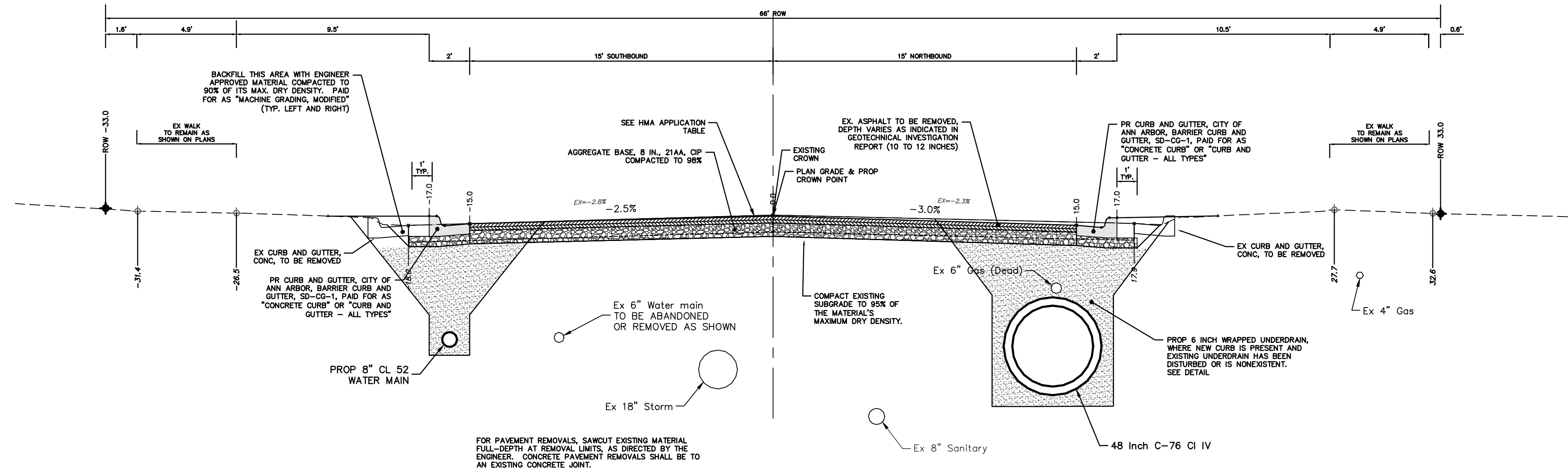


**CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING**  
**S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS**  
TYPICAL SECTIONS  
GREENVIEW DRIVE SOUTH

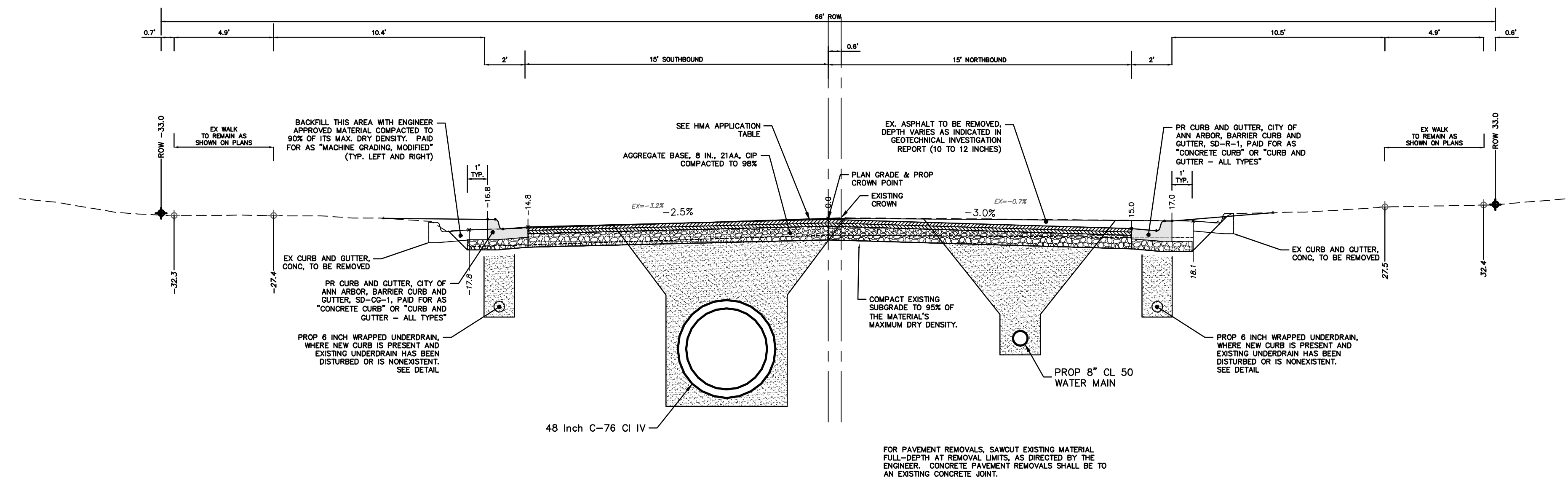
SCALE PLAN: 1" = 4'  
PROFILE: 1" = 4'

DRAWING No. 2020031-5

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**GREENVIEW DRIVE (NORTH) - 9+75 TO POE  
TYPICAL SECTION**



**GREENVIEW DRIVE (NORTH) - POB TO 9+75  
TYPICAL SECTION**



REV.	DATE	DESCRIPTION
01	2-14-24	ADDENDUM 1
00	1-30-24	BID SET
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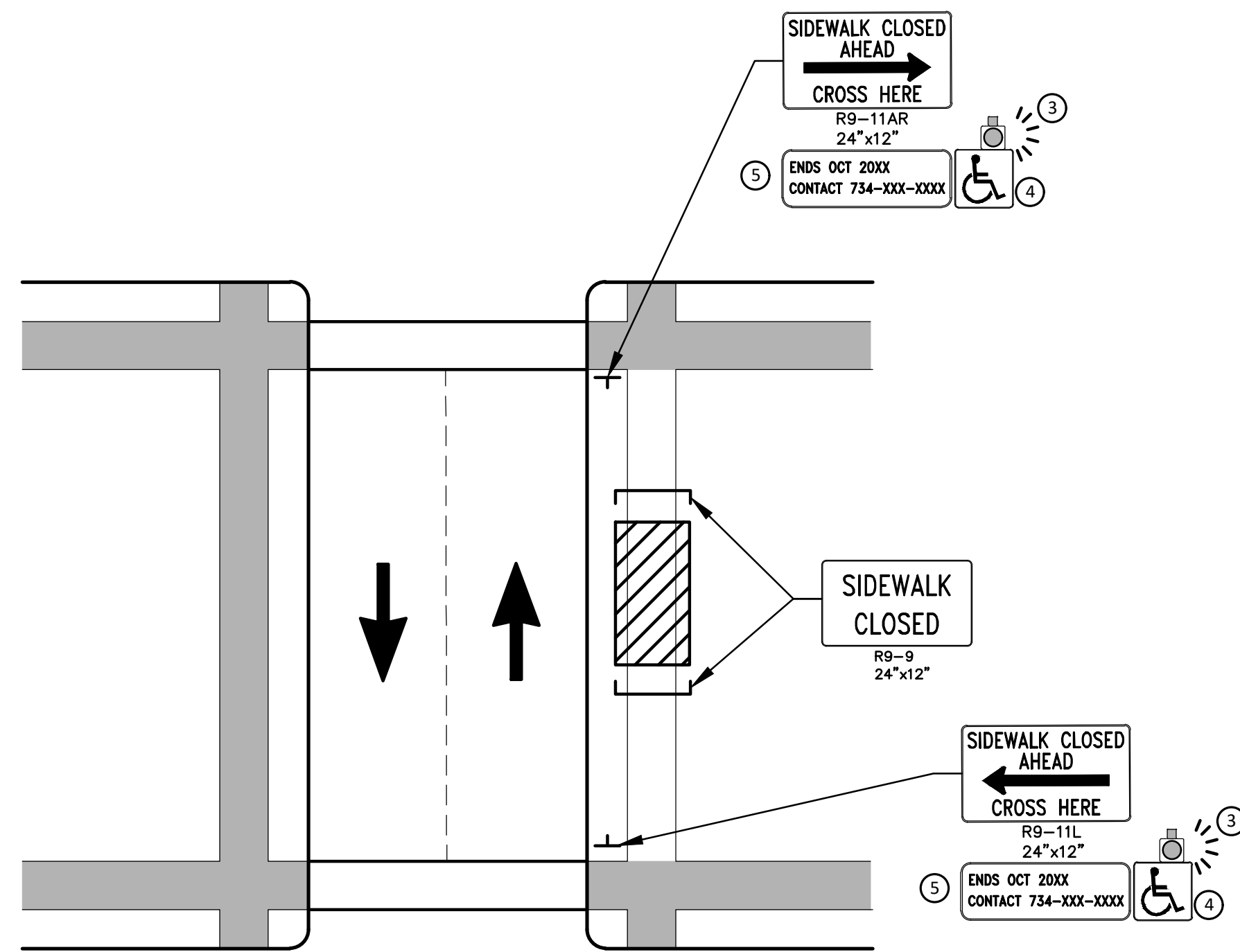


**CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING**  
**S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS**  
TYPICAL SECTIONS  
GREENVIEW DRIVE NORTH

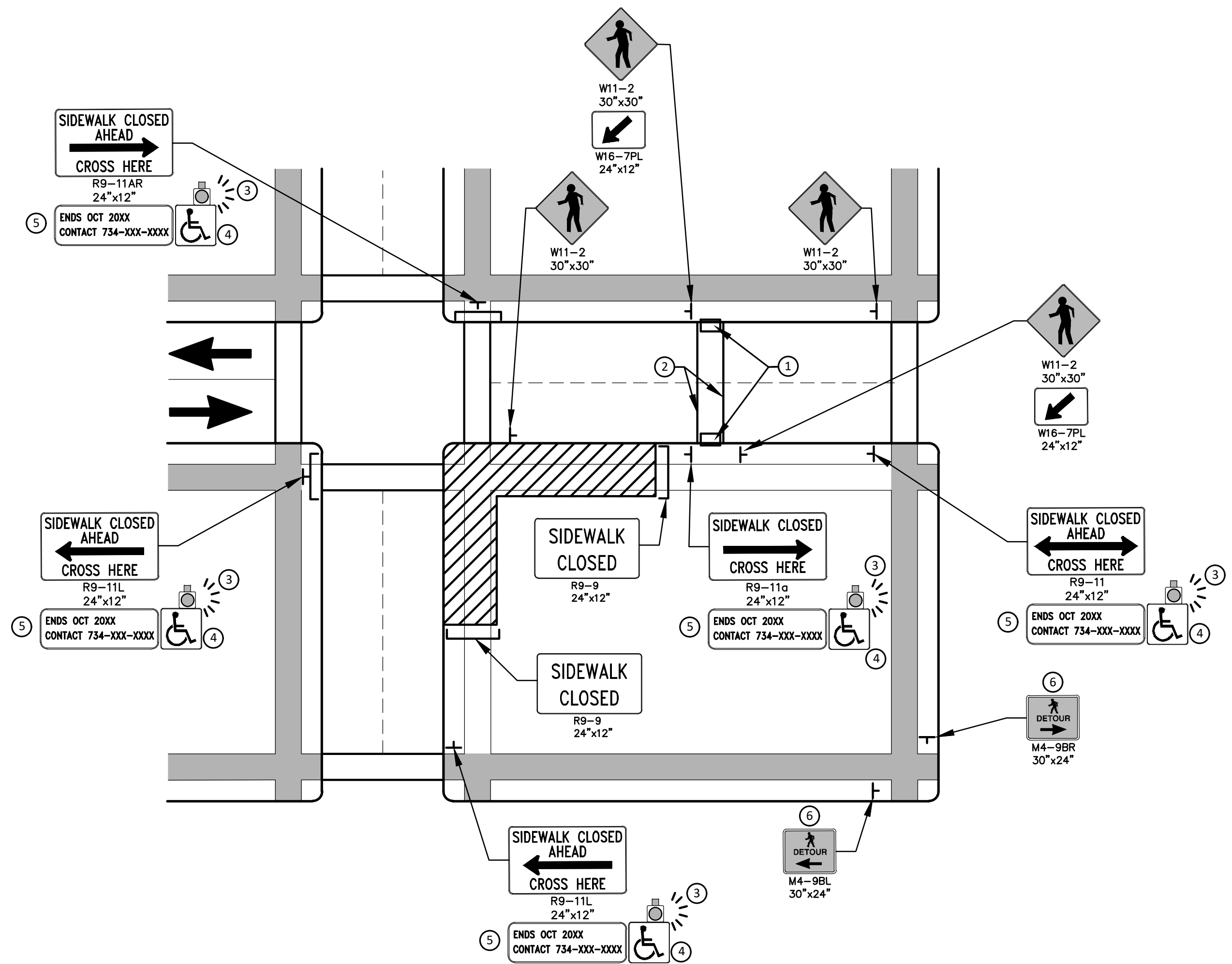
PROFILE: 1" = 4'  
SCALE PLAN: 1" = 4'  
DRAWING No. 2020031-6



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PEDESTRIAN DETOUR USING OPPOSITE SIDE OF STREET



OTHER SIDE OF STREET DETOUR OR DETOUR WITH TRAILBLAZING SIGNS  
(FOR CORNER SIDEWALK CLOSURE WITH OPTIONAL TEMPORARY CROSSWALK)

**GENERAL NOTES**

WHEN CLOSING OR RELOCATING CROSSWALKS OR SIDEWALKS, THE CONTRACTOR SHALL PROVIDE DETECTABLE TEMPORARY FACILITIES AND INCLUDE ACCESSIBILITY FEATURES CONSISTENT WITH EXISTING PEDESTRIAN FACILITIES.

TEMPORARY TRAFFIC CONTROL DEVICES FOR PEDESTRIANS ARE SHOWN. OTHER DEVICES MAY BE NECESSARY TO CONTROL VEHICULAR TRAFFIC. STAGE WORK, AS NECESSARY, TO PROVIDE AN ALTERNATE PEDESTRIAN ROUTE (APR) AT ALL TIMES. FOR ROADWAYS WITH NO AVAILABLE DETOURS, MAINTAIN ONE OPEN SIDEWALK AT ALL TIMES.

PROVIDE A SMOOTH, CONTINUOUS, HARD SURFACE THROUGH THE LENGTH OF THE APR. COMPACTED GRAVEL, AGGREGATE, OR SLAG MATERIALS ARE NOT ALLOWED. PROVIDE A FIRM, STABLE, AND SLIP RESISTANT TEMPORARY WALKWAY SURFACE TO COVER SHORT SEGMENTS OF ROUGH, SOFT, OR UNEVEN GROUND.

THE PEDESTRIAN TRAFFIC SIGNALS CONTROLLING CLOSED CROSSWALKS SHALL BE COVERED OR DEACTIVATED BY THE CITY OF ANN ARBOR. THE CONTRACTOR SHALL SCHEDULE AND COORDINATE THIS WORK WITH THE ENGINEER A MINIMUM OF 72 HOURS (NOT INCLUDING WEEKENDS & HOLIDAYS) PRIOR TO THE BEGINNING OF WORK THAT REQUIRES A SIDEWALK CLOSURE.

POST MOUNTED SIGNS LOCATED ADJACENT TO A SIDEWALK SHALL HAVE A 7 FOOT MINIMUM CLEARANCE FROM THE BOTTOM OF THE SIGN TO THE SIDEWALK SURFACE.

WHEN THE ENGINEER DETERMINES THAT THE CONTRACTOR'S OPERATIONS OR PLACEMENT OF TRAFFIC CONTROL DEVICES HAS CAUSED A SITUATION THAT THE VISIBILITY OF IS REDUCED ENOUGH TO CREATE A HAZARD, THE TRAFFIC CONTROL DEVICES SHALL BE DELINEATED WITH FLAGS OR OTHER ENGINEER-APPROVED DEVICES AT NO ADDITIONAL COST TO THE PROJECT.

MINIMIZE DISRUPTION TO PEDESTRIANS TO THE MAXIMUM EXTENT FEASIBLE BY PROVIDING AN APR IN THE FOLLOWING ORDER OF PREFERENCE:

1. PROVIDE THE APR ON THE SAME SIDE OF THE STREET AS THE DISRUPTED ROUTE UTILIZING BYPASSES.
2. WHERE IT IS NOT FEASIBLE TO PROVIDE A SAME SIDE APR, PROVIDE A DETOUR ON THE OTHER SIDE OF THE STREET.
3. WHERE IT IS NOT FEASIBLE TO PROVIDE AN APR ON THE OTHER SIDE OF THE ROADWAY, PROVIDE AN APR DETOUR WITH TRAILBLAZING SIGNS AS SHOWN ON THE PROJECT PLANS.

**SPECIFIC NOTES**

1. TEMPORARY CURB RAMPS WITH DETECTABLE WARNINGS.
2. TEMPORARY PAVEMENT MARKING FOR CROSSWALK LINES.
3. AN APPROVED AUDIBLE MESSAGE DEVICE OR TACTILE MESSAGE SHALL BE PROVIDED FOR SIGHT-IMPAIRED PEDESTRIANS.
4. THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHOULD BE DISPLAYED WHEN ANY WALKWAY THROUGH A WORK ZONE HAS BEEN DETERMINED TO BE TPAR COMPLIANT. THE SYMBOL OF ACCESSIBILITY SHALL NOT BE DISPLAYED IF PERSONS WITH DISABILITIES SHOULD NOT USE THE PRIMARY TEMPORARY PEDESTRIAN DETOUR. THE REASON FOR THE NON-COMPLIANCE SHALL BE POSTED AND AN ALTERNATE ROUTE SHALL BE POSTED WHEN THE PRIMARY TEMPORARY PEDESTRIAN DETOUR IS NON-COMPLIANT TO TPAR STANDARDS.
5. TYPICAL SIGN MESSAGE FOR A TEMPORARY PEDESTRIAN DETOUR SHALL INCLUDE INFORMATION SUCH AS THE DURATION OF THE WALKWAY RESTRICTIONS (BEGINNING AND/OR END DATES) AND A PROJECT CONTACT NUMBER FOR 24 / 7 QUESTIONS OR REPORTING HAZARDS.
6. PEDESTRIAN DETOUR TRAILBLAZING SIGNS SHALL BE USED IF THE PEDESTRIAN DETOUR IS IN A LOCATION OTHER THAN ACROSS THE STREET FROM THE SIDEWALK CLOSURE.

**PEDESTRIAN TEMPORARY TRAFFIC CONTROL NOTES**

1. THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN THROUGH MOVEMENTS FROM ONE END OF THE CONSTRUCTION AREA TO THE OTHER, ON AT LEAST ONE SIDE OF THE STREET DURING CONSTRUCTION. ANY SIDEWALK CLOSURES SHALL MEET THE REQUIREMENTS OF THE MMUTCD, PART 6.
2. PEDESTRIAN ACCESS SHALL BE PROVIDED TO ALL ADJACENT PROPERTIES, BUILDINGS, RESIDENCES AND COMMERCIAL PROPERTIES AT ALL TIMES. THIS MAY INCLUDE TEMPORARY WALKWAYS SPANNING THE CONSTRUCTION AREA.
3. IF SIDEWALKS ARE CLOSED, A TEMPORARY PEDESTRIAN ACCESS ROUTE (TPAR) SHALL BE PROVIDED ON THE SAME SIDE OF THE ROAD AS THE CLOSED SIDEWALK, IF POSSIBLE. SIGNS AND BARRICADES SHALL BE USED TO PROVIDE ADVANCE NOTICE OF THE CLOSURE AND THE ROUTE OF ANY PEDESTRIAN DETOURS. THE TPAR SHALL HAVE A MINIMUM UNOBSTRUCTED WIDTH OF 4 FEET. IF THE TPAR IS LESS THAN 5 FEET IN WIDTH, A 5 FOOT BY 5 FOOT PASSING SPACE SHALL BE PROVIDED AT LEAST EVERY 200 FEET. THE SURFACE OF THE TPAR SHALL BE SMOOTH AND CONTINUOUS FOR THE LENGTH OF THE TPAR. THE TPAR SHALL MAINTAIN THE SAME LEVEL OF ACCESSIBILITY AND DETECTABILITY AS THE FACILITY THAT IS BEING CLOSED. THE TPAR SHALL NOT LEAD PEDESTRIANS INTO CONFLICTS WITH VEHICLES, EQUIPMENT, OR CONSTRUCTION OPERATIONS.
4. IF THE TPAR IS ADJACENT TO MOVING TRAFFIC, CONSTRUCTION OPERATIONS/EQUIPMENT, OR DROP-OFFS, THEN CRASH WORTHY CHANNELIZING DEVICES THAT MEET THE REQUIREMENTS OF NCHRP 350 AND THE MMUTCD SHALL BE USED.
5. THE CONTRACTOR SHALL NOT STORE OR PLACE ANY CONSTRUCTION MATERIALS, EQUIPMENT OR SIGNS IN THE PEDESTRIAN PATH OF TRAVEL.
6. THE CONTRACTOR'S OPERATIONS SHALL NOT OCCUPY SIDEWALKS EXCEPT WHERE PROPER PROTECTION AND A TPAR HAVE BEEN PROVIDED.
7. WHEN DIRECTED BY THE ENGINEER, OR STATED ON THE PLANS, THE CONTRACTOR SHALL PROVIDE A TEMPORARY PEDESTRIAN TRAFFIC CONTROL PLAN FOR REVIEW AND WRITTEN APPROVAL BY THE ENGINEER A MINIMUM OF THREE WEEKS BEFORE SUCH PLAN IS IMPLEMENTED. THIS PLAN SHALL DETAIL THE CONSTRUCTION PHASING AND SCHEDULE AND THE SPECIFIC METHODS OF MAINTAINING SAFE PEDESTRIAN ACCESS THROUGHOUT THE CONSTRUCTION AREA. THIS PLAN SHALL PROVIDE THE LOCATION AND DETAILS OF TEMPORARY CONSTRUCTION SIGNING, MARKINGS, BARRICADES, CHANNELIZING DEVICES, TPARS AND METHODS TO MAINTAIN ACCESS TO ADJACENT PROPERTIES, BUSINESSES, RESIDENCES, ETC. NO WORK SHALL BE ALLOWED TO BEGIN UNTIL THIS PLAN IS APPROVED BY THE ENGINEER IN WRITING.

**LEGEND**

- SIGN
- EXISTING PEDESTRIAN SURFACE
- WORK AREA
- PEDESTRIAN CHANNELIZATION DEVICE
- BARRIER
- SIDEWALK BARRICADE
- DIRECTION OF TRAFFIC
- TRAFFIC CONTROL DEVICE



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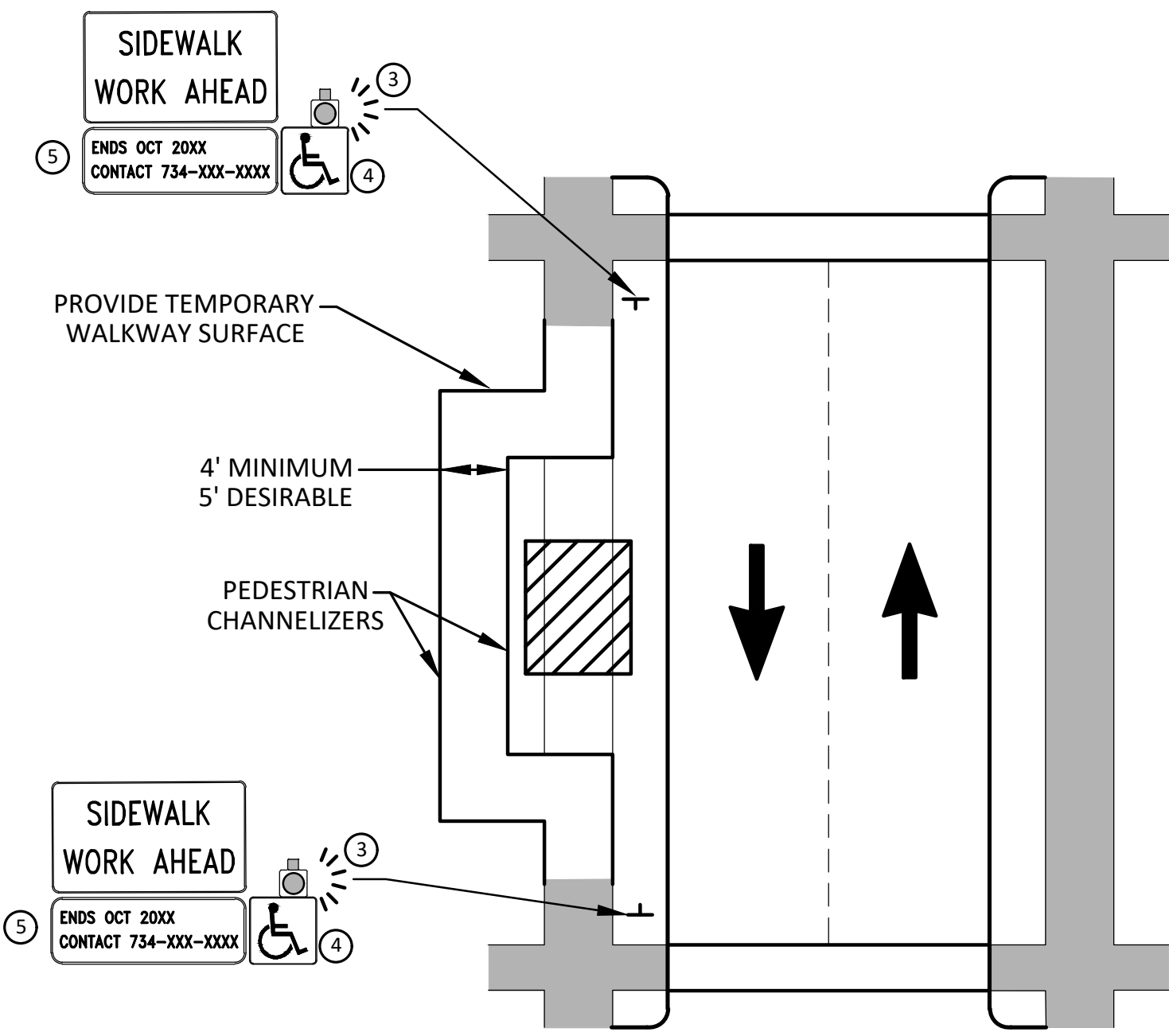
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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING  
S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS  
ALTERNATE PEDESTRIAN ROUTE (APR) DETOUR

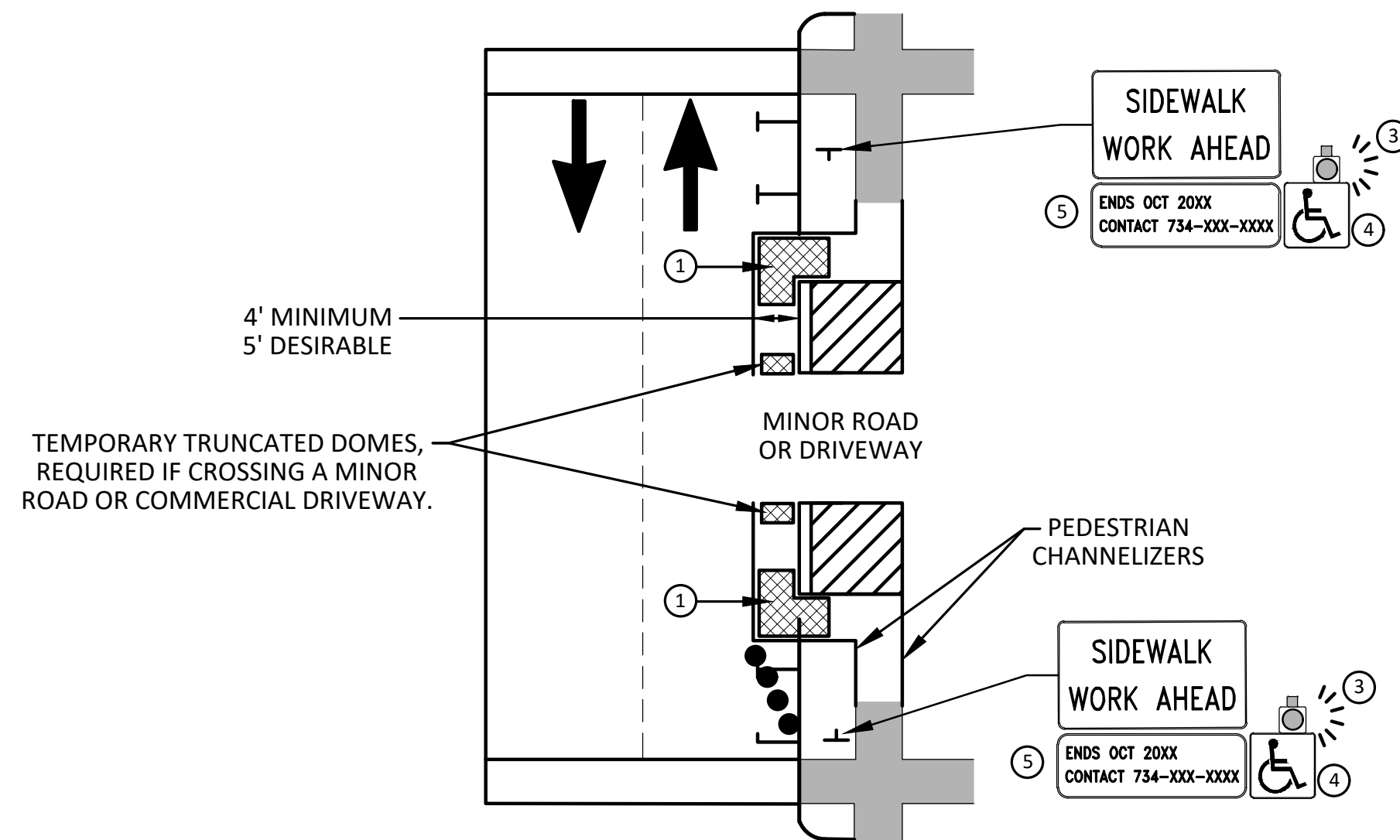
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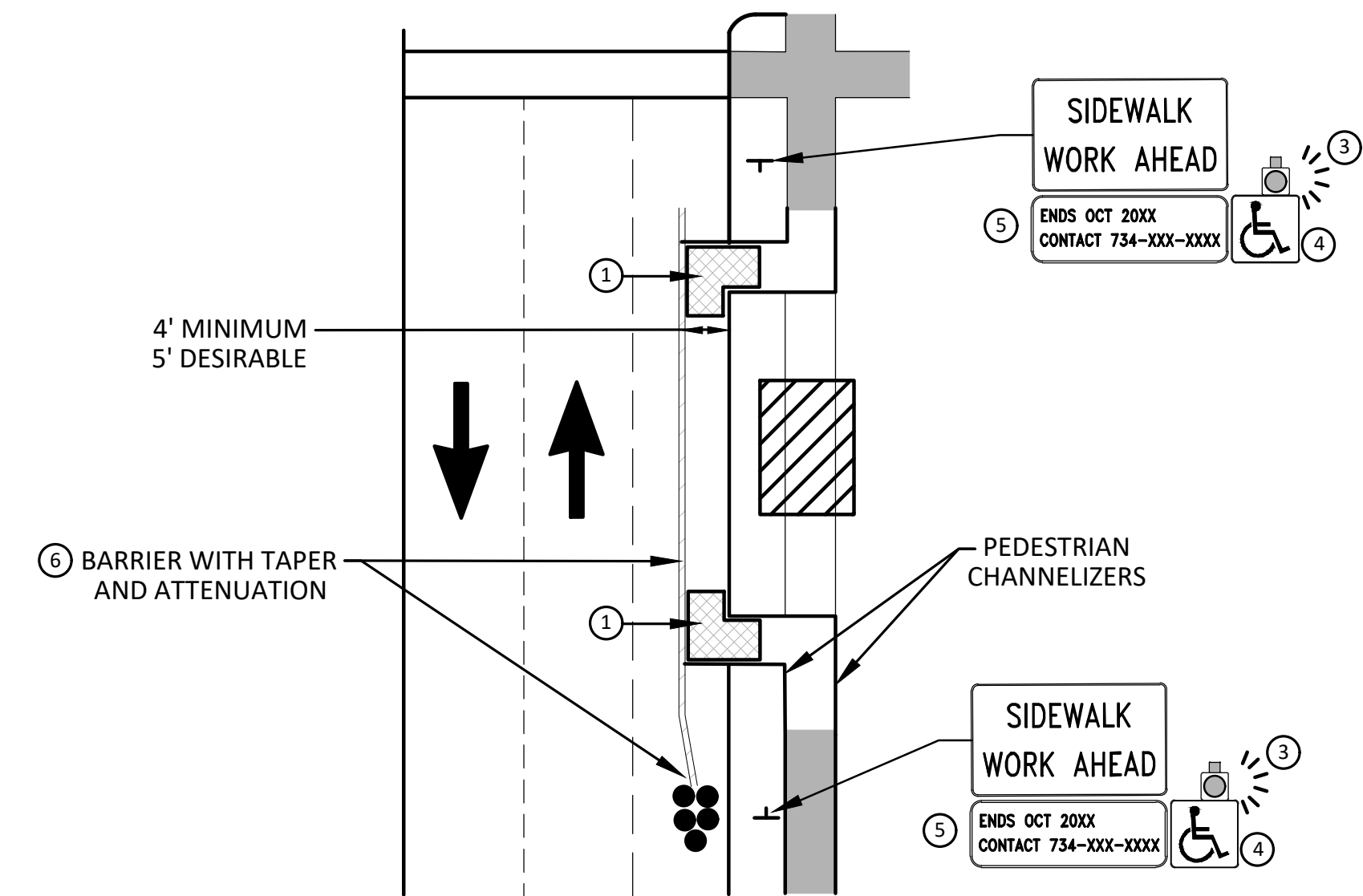


**BYPASS ON ADJACENT AVAILABLE  
RIGHT OF WAY  
BYPASS TYPE A**

NOTE: MAY ONLY BE USED ON ROADWAY WITH POSTED  
SPEED OF 45 MPH OR LESS.



**SIDEWALK BYPASS USING PARKING OR  
SHOULDER ON LOW SPEED ROADWAY  
BYPASS TYPE B**



**SIDEWALK BYPASS USING  
SHOULDER OR PARKING LANE ON  
HIGH SPEED ROADWAY  
BYPASS TYPE C**

**GENERAL NOTES**

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PROVIDE A SMOOTH, CONTINUOUS, HARD SURFACE THROUGH THE LENGTH OF THE APR. COMPACTED GRAVEL, AGGREGATE, OR SLAG MATERIALS ARE NOT ALLOWED. PROVIDE A FIRM, STABLE, AND SLIP RESISTANT TEMPORARY WALKWAY SURFACE TO COVER SHORT SEGMENTS OF ROUGH, SOFT, OR UNEVEN GROUND.

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POST MOUNTED SIGNS LOCATED ADJACENT TO A SIDEWALK SHALL HAVE A 7 FOOT MINIMUM CLEARANCE FROM THE BOTTOM OF THE SIGN TO THE SIDEWALK SURFACE.

WHEN THE ENGINEER DETERMINES THAT THE CONTRACTOR'S OPERATIONS OR PLACEMENT OF TRAFFIC CONTROL DEVICES HAS CAUSED A SITUATION THAT THE VISIBILITY OF A TRAFFIC CONTROL DEVICE IS REDUCED ENOUGH TO CREATE A HAZARD, THE TRAFFIC CONTROL DEVICES SHALL BE DELINEATED WITH FLAGS OR OTHER ENGINEER-APPROVED DEVICES AT NO ADDITIONAL COST TO THE PROJECT.

MINIMIZE DISRUPTION TO PEDESTRIANS TO THE MAXIMUM EXTENT FEASIBLE BY PROVIDING AN APR IN THE FOLLOWING ORDER OF PREFERENCE:

1. PROVIDE THE APR ON THE SAME SIDE OF THE STREET AS THE DISRUPTED ROUTE UTILIZING BYPASSES.
2. WHERE IT IS NOT FEASIBLE TO PROVIDE A SAME SIDE APR, PROVIDE A DETOUR ON THE OTHER SIDE OF THE STREET.
3. WHERE IT IS NOT FEASIBLE TO PROVIDE AN APR ON THE OTHER SIDE OF THE ROADWAY, PROVIDE AN APR DETOUR WITH TRAILBLAZING SIGNS AS SHOWN ON THE PROJECT PLANS.

**SPECIFIC NOTES**

1. TEMPORARY CURB RAMP WITH DETECTABLE WARNINGS.
2. 5 DEVICE TAPER 25 FEET LONG, RECOMMENDED WHEN THE CLOSED AREA WAS USED AS AN INTERMITTENT TRAFFIC LANE OR BYPASS LANE. STREET PARKING SHALL BE PROHIBITED FOR AT LEAST 50 FEET IN ADVANCE OF THE MID-BLOCK CROSSWALK.
3. AN APPROVED AUDIBLE MESSAGE DEVICE OR TACTILE MESSAGE SHOULD BE PROVIDED FOR SIGHT-IMPAIRED PEDESTRIANS.
4. THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL BE DISPLAYED WHEN ANY WALKWAY THROUGH A WORK ZONE HAS BEEN DETERMINED TO BE TPAR COMPLIANT. THE SYMBOL OF ACCESSIBILITY SHALL NOT BE DISPLAYED IF PERSONS WITH DISABILITIES SHOULD NOT USE THE PRIMARY TEMPORARY PEDESTRIAN DETOUR. THE REASON FOR THE NON-COMPLIANCE SHALL BE POSTED AND AN ALTERNATE ROUTE SHALL BE POSTED WHEN THE PRIMARY TEMPORARY PEDESTRIAN DETOUR IS NON-COMPLIANT TO TPAR STANDARDS.
5. TYPICAL SIGN MESSAGE FOR A TEMPORARY PEDESTRIAN DETOUR SHALL INCLUDE INFORMATION SUCH AS THE DURATION OF THE WALKWAY RESTRICTIONS (BEGINNING AND/OR END DATES) AND A PROJECT CONTACT NUMBER FOR 24 / 7 QUESTIONS OR REPORTING HAZARDS.
6. SEE MMUTCD FOR GUIDANCE ON PLACEMENT AND USAGE OF BARRIER.

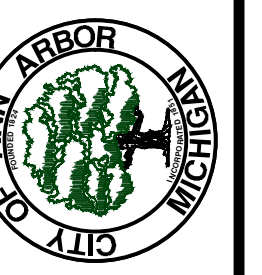
**LEGEND**

- SIGN
- ▨ EXISTING PEDESTRIAN SURFACE
- ▩ WORK AREA
- ▤ PEDESTRIAN CHANNELIZATION DEVICE
- BARRIER
- SIDEWALK BARRICADE
- DIRECTION OF TRAFFIC
- TRAFFIC CONTROL DEVICE



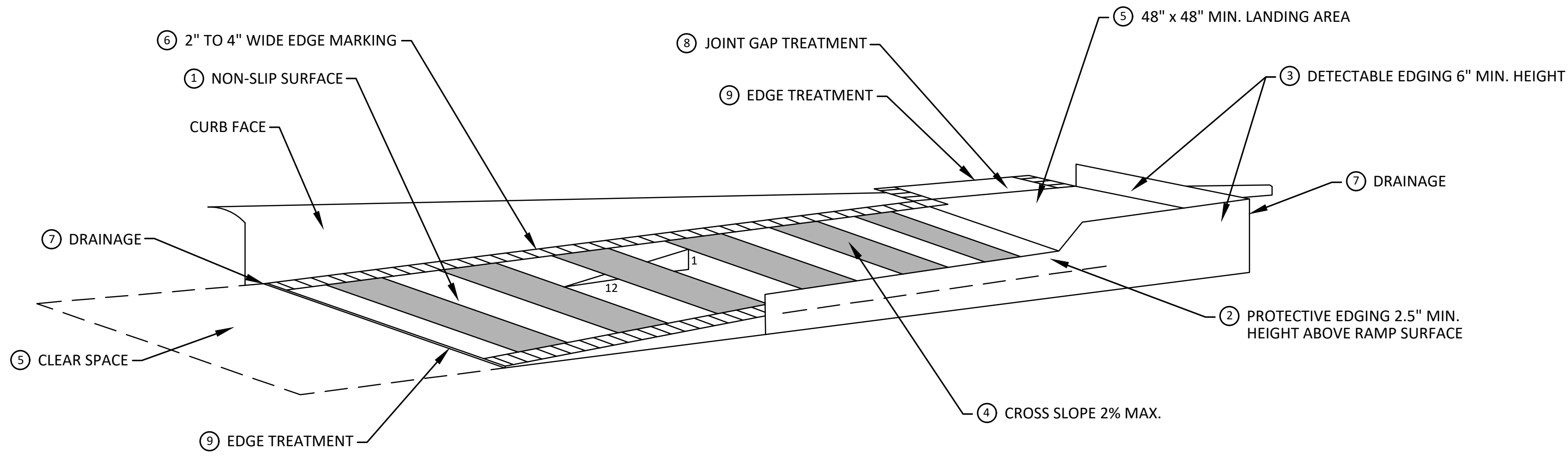
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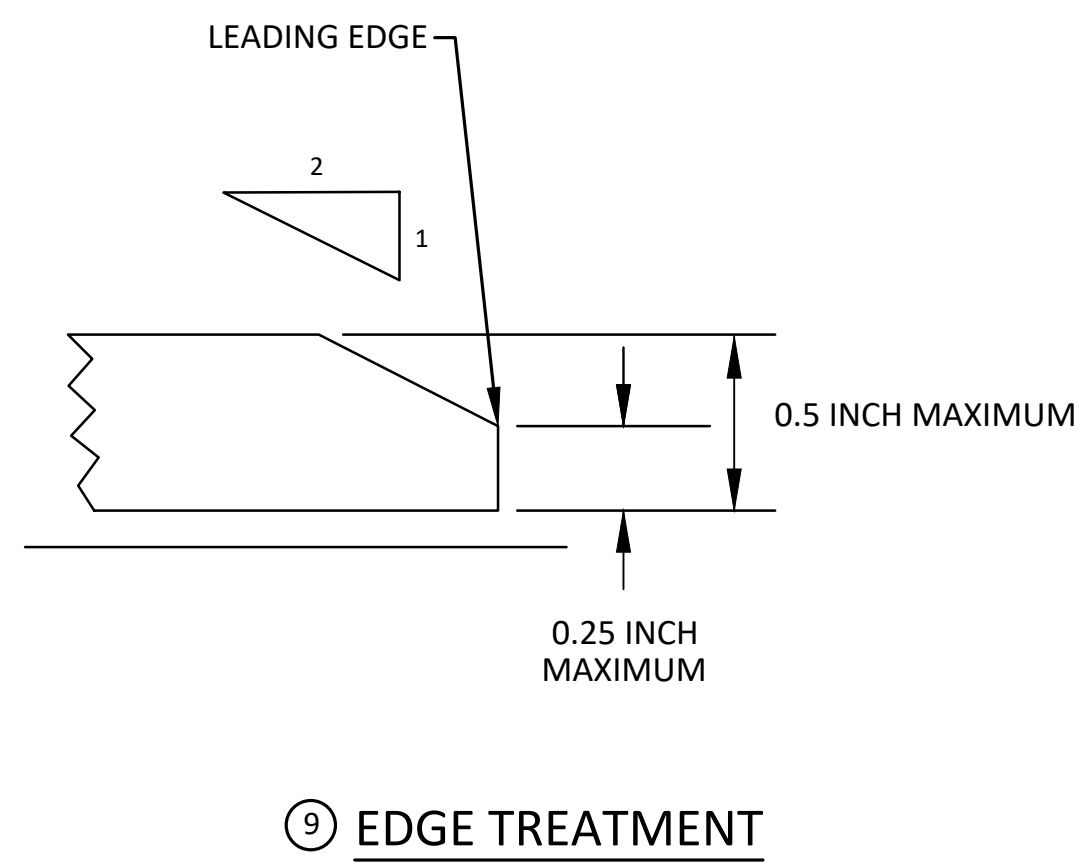


**CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING**  
**S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS**  
ALTERNATE PEDESTRIAN ROUTE (APR) BYPASS  
DRAWING No. 2020031-8

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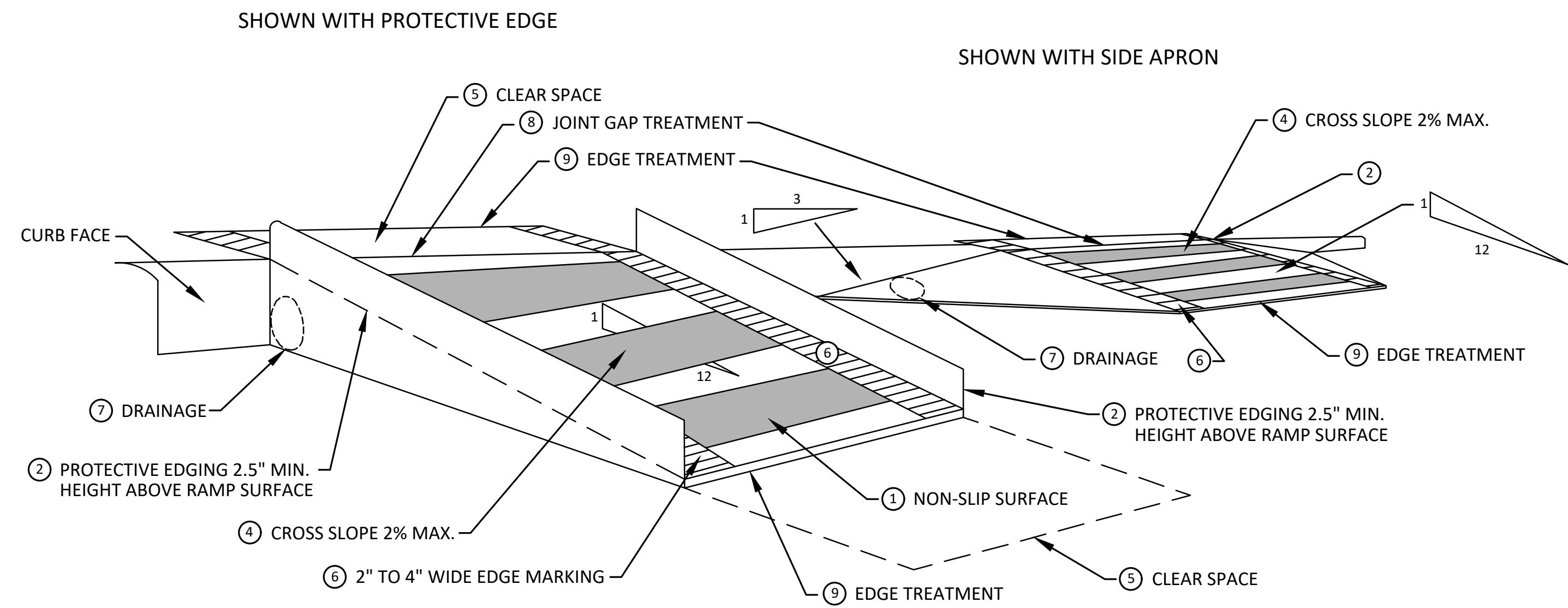
**TEMPORARY CURB RAMP  
PARALLEL TO CURB**



**EDGE TREATMENT**

**SPECIFIC NOTES**

- 1 CURB RAMP SHALL BE 48" MIN. WIDTH WITH A FIRM, STABLE AND SLIP RESISTANT SURFACE. PROTECTIVE EDGING WITH A 2.5" MIN. HEIGHT ABOVE THE RAMP SHALL BE PLACED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3. PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMP OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.
- 2 DETECTABLE EDGING ANYTIME A HANDRAIL IS REQUIRED, AND ANYTIME THE PATH CHANGES DIRECTION. THIS INCLUDES A TURN ONTO THE RAMP FROM THE PATH. DETECTABLE EDGING MUST BEGIN A MAXIMUM OF 2.5" ABOVE THE RAMP SURFACE, AND EXTEND AT LEAST 6" ABOVE THE RAMP SURFACE. CONTRASTING COLOR SHALL BE PLACED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).
- 3 CURB RAMP AND LANDINGS SHALL HAVE A 2% MAX. CROSS SLOPE.
- 4 CLEAR SPACE OF 48" x 48" MIN. SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.
- 5 THE CURB RAMP WALKWAY EDGE SHALL BE MARKED WITH A CONTRASTING COLOR, 2" TO 4" WIDE MARKING. THE MARKING IS OPTIONAL WHERE COLOR CONTRASTING EDGING IS USED.
- 6 WATER FLOW IN THE GUTTER SYSTEM SHALL NOT BE IMPEDED.
- 7 LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN 1/2" WIDTH.
- 8 CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED 1/2". LATERAL EDGES SHOULD BE VERTICAL UP TO 1/4" HIGH, AND BEVELED AT 1:2 BETWEEN 1/4" AND 1/2" HEIGHT.



**TEMPORARY CURB RAMP  
PERPENDICULAR TO CURB**



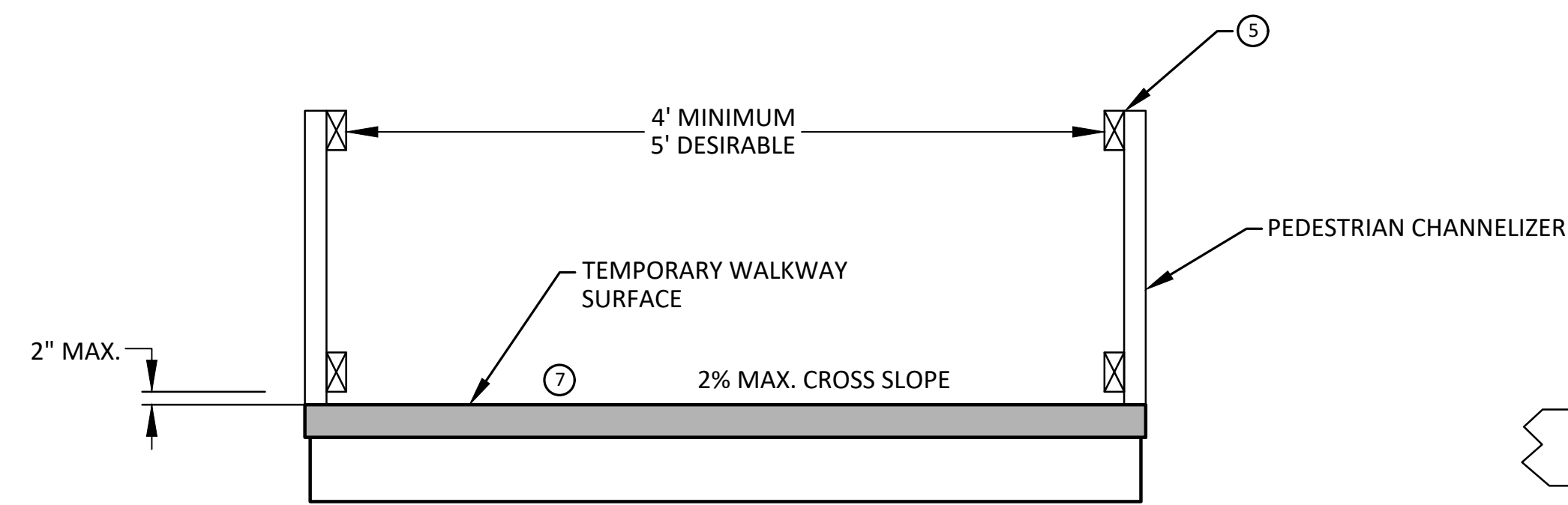
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00	BID SET	A2D	TA

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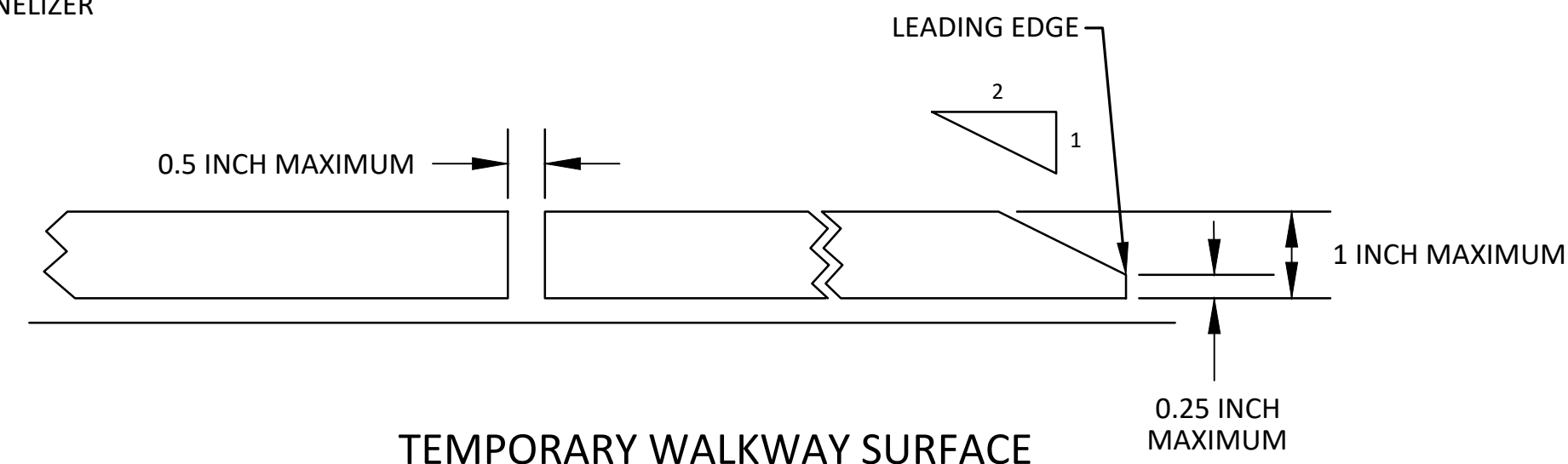


**CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING**  
**S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS**  
TPAR RAMPS  
SCALE: N.T.S.  
DRAWING No. 2020031-9

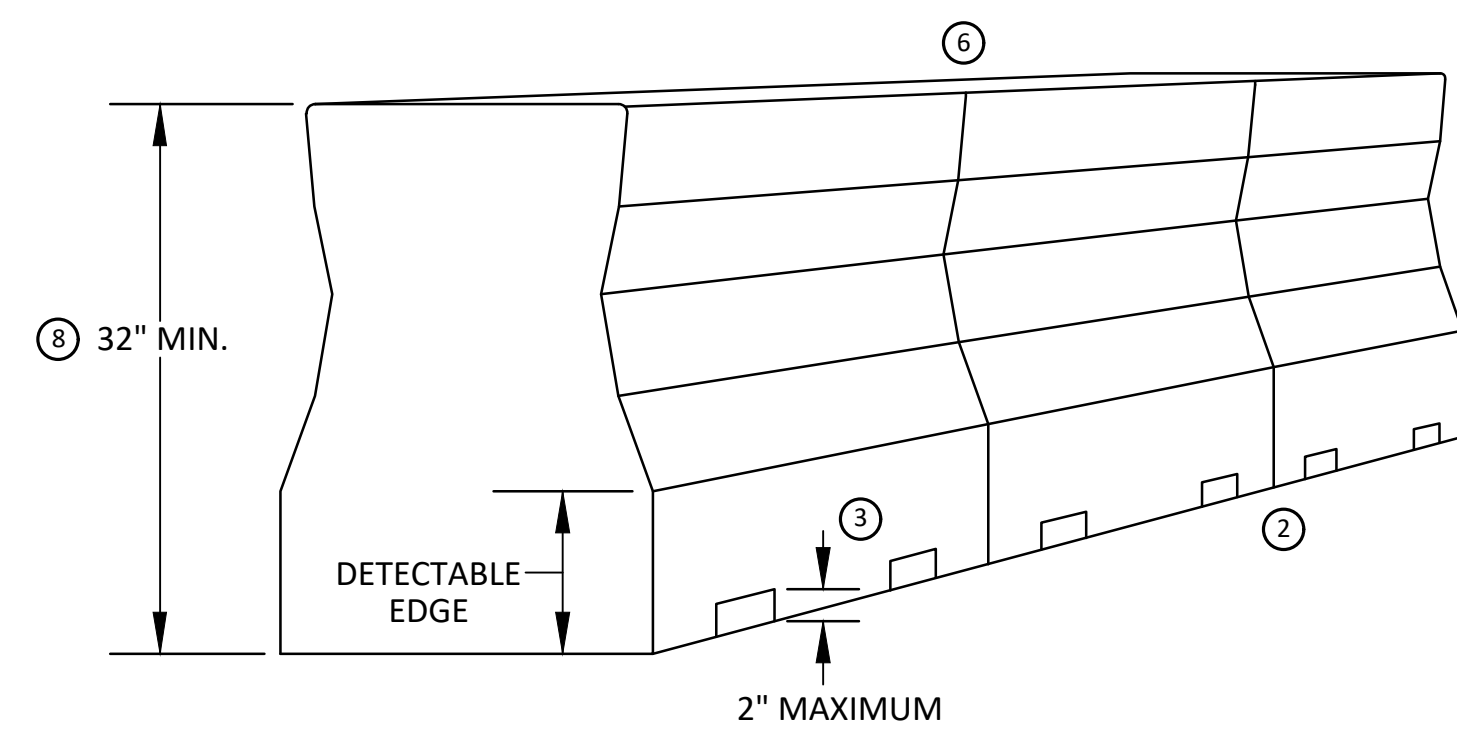
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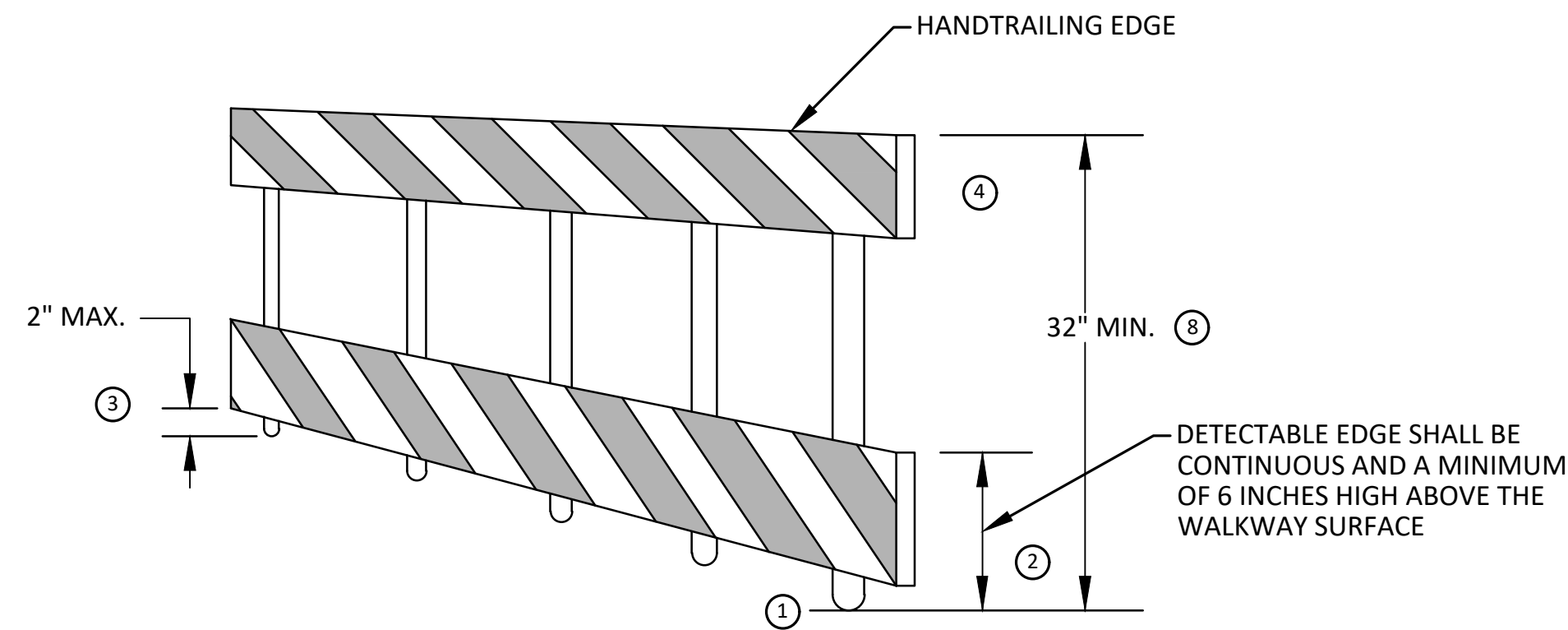
TEMPORARY PEDESTRIAN ACCESS



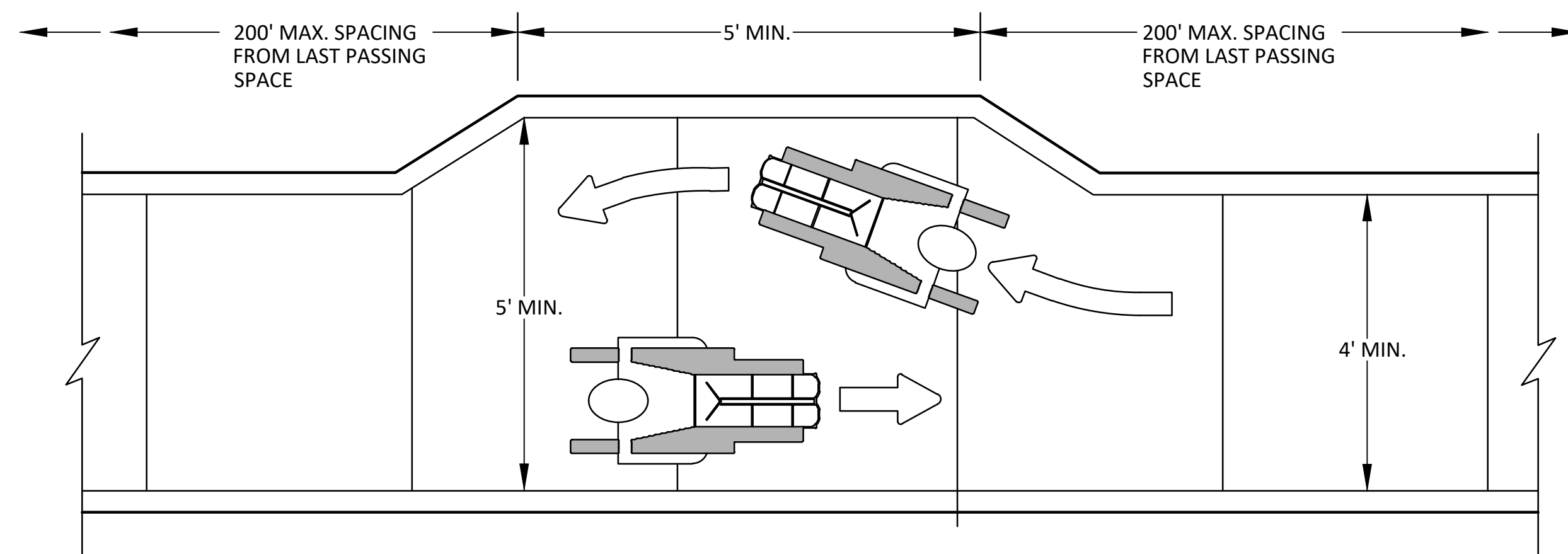
TEMPORARY WALKWAY SURFACE



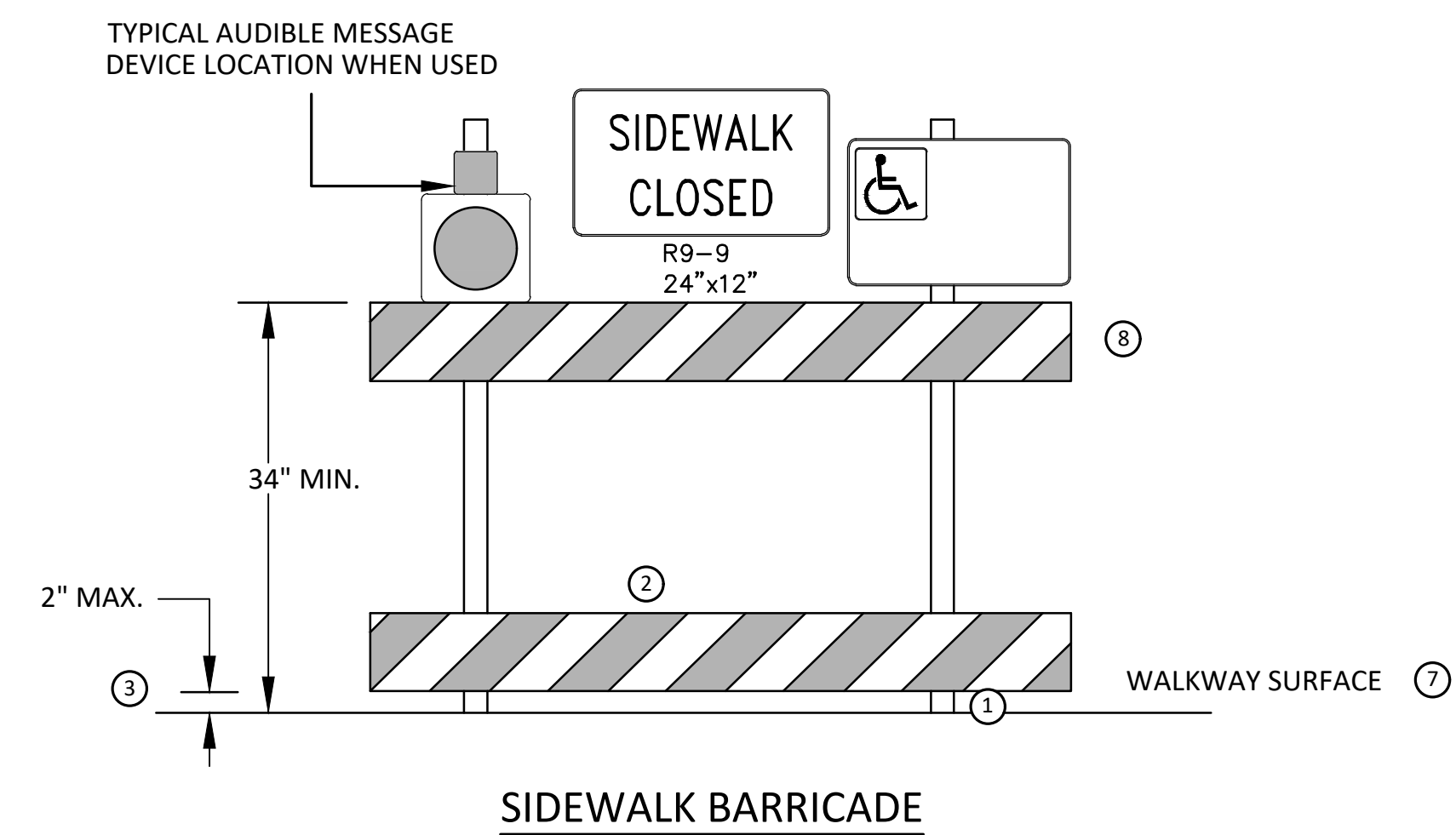
PEDESTRIAN CHANNELIZER USING A BARRIER  
(MINIMUM REQUIREMENTS)



PEDESTRIAN CHANNELIZER  
(MINIMUM REQUIREMENTS)



NARROW TEMPORARY PEDESTRIAN ACCESS ROUTE PASSING DETAIL



SIDEWALK BARRICADE

**GENERAL NOTES**

RAILINGS OR OTHER OBJECTS MAY PROTRUDE A MAXIMUM OF 4 INCHES INTO THE WALKWAY CLEAR SPACE WHEN LOCATED A MINIMUM OF 27 INCHES ABOVE THE WALKWAY SURFACE.

ANY PEDESTRIAN DEVICES USED TO PROVIDE POSITIVE PROTECTION FOR PEDESTRIANS OR WORKERS SHALL MEET NCHRP 350 CRASHWORTHY REQUIREMENTS APPROPRIATE FOR THE BARRIER'S APPLICATION.

BARRICADES SHALL BE PLACED CONTINUOUSLY ACROSS THE ENTIRE WIDTH OF THE WALKWAY SURFACE BEING CLOSED.

**SPECIFIC NOTES**

- 1 ANY TRIPPING HAZARD IN THE WALKWAY NEEDS A DETECTABLE EDGE. BALLAST SHALL BE LOCATED BEHIND OR INTERNAL TO THE DEVICE. ANY SUPPORT ON THE FRONT OF THE DEVICE SHALL NOT EXTEND INTO THE 48 INCH MINIMUM WALKWAY CLEAR SPACE AND SHALL NOT EXCEED 0.5 INCHES IN HEIGHT ABOVE THE WALKWAY SURFACE.
- 2 DETECTABLE EDGES SHALL BE CONTINUOUS AND A MINIMUM OF 6 INCHES IN HEIGHT ABOVE WALKWAY SURFACE AND HAVE COLOR MARKINGS CONTRASTING WITH THE WALKWAY SURFACE.
- 3 DEVICES SHALL NOT BLOCK WATER DRAINAGE FROM THE WALKWAY. A GAP HEIGHT OR OPENING FROM THE WALKWAY SURFACE UP TO A MAXIMUM OF 2 INCHES IS ALLOWED FOR DRAINAGE PURPOSES.
- 4 PROVIDE A HANDRAIL ON BOTH SIDES OF THE RAMP IF THE RAMP IS NOT EXPOSED TO VEHICLE TRAFFIC AND HAS A TOTAL RISE GREATER THAN 6 INCHES, AND A LENGTH GREATER THAN 72 INCHES.  
- ENSURE THE HANDRAIL IS 1.25 AND 1.5 INCHES WIDE AND CONFIGURED TO BE A "GRASPABLE" CROSS-SECTION.  
WHEN THE RAMP IS EXPOSED TO TRAFFIC, IN LIEU OF HANDRAILS, USE A PROTECTIVE EDGE 2.5 INCHES MINIMUM HEIGHT ABOVE THE RAMP SURFACE OR 1:10 FLARE ON BOTH SIDES OF THE RAMP.
- 5 ALL DEVICES SHALL BE FREE OF SHARP OR ROUGH EDGES, AND FASTENERS (BOLTS) SHALL BE ROUNDED TO PREVENT HARM TO HANDS, ARMS OR CLOTHING OF PEDESTRIANS.
- 6 ALL DEVICES USED TO CHANNELIZE PEDESTRIAN FLOW SHOULD INTERLOCK SUCH THAT GAPS DO NOT ALLOW PEDESTRIANS TO STRAY FROM THE INTENDED CHANNELIZED PATH.
- 7 A WALKWAY SURFACE SHALL BE FIRM, STABLE, AND SLIP RESISTANT. COMPACTED GRAVEL, AGGREGATE, OR SLAG MATERIALS ARE NOT ALLOWED.
- 8 LONGITUDINAL CHANNELIZING DEVICES FOR PEDESTRIANS SHALL BE 32 INCHES IN HEIGHT OR GREATER.



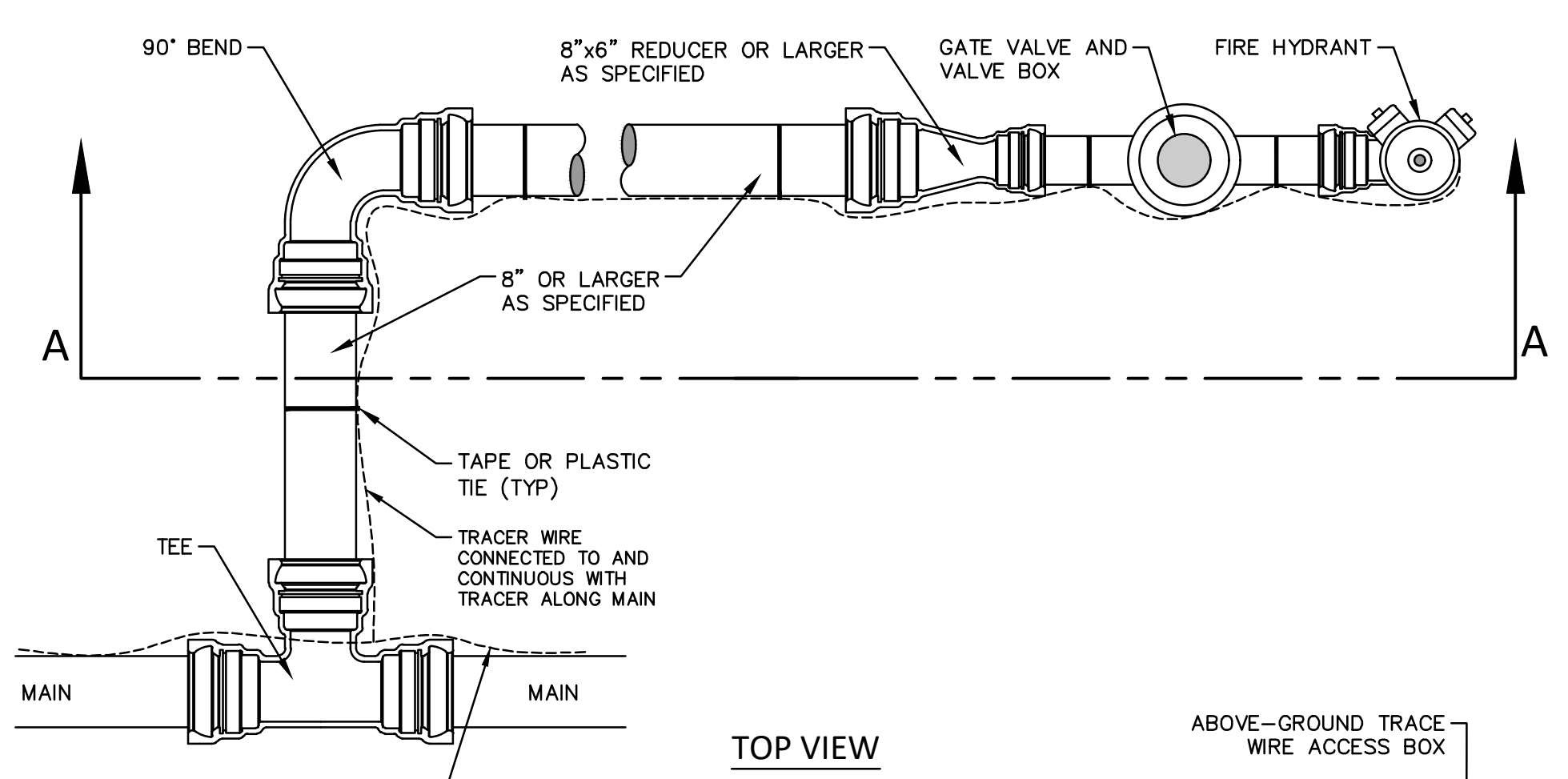
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A2D	A2D	A2D	A2D
2-14-24	1-30-24	DATE	DATE
ADDENDUM 1	BID SET	REV.	REV.
01	00	DESCRIPTION	CHECKED

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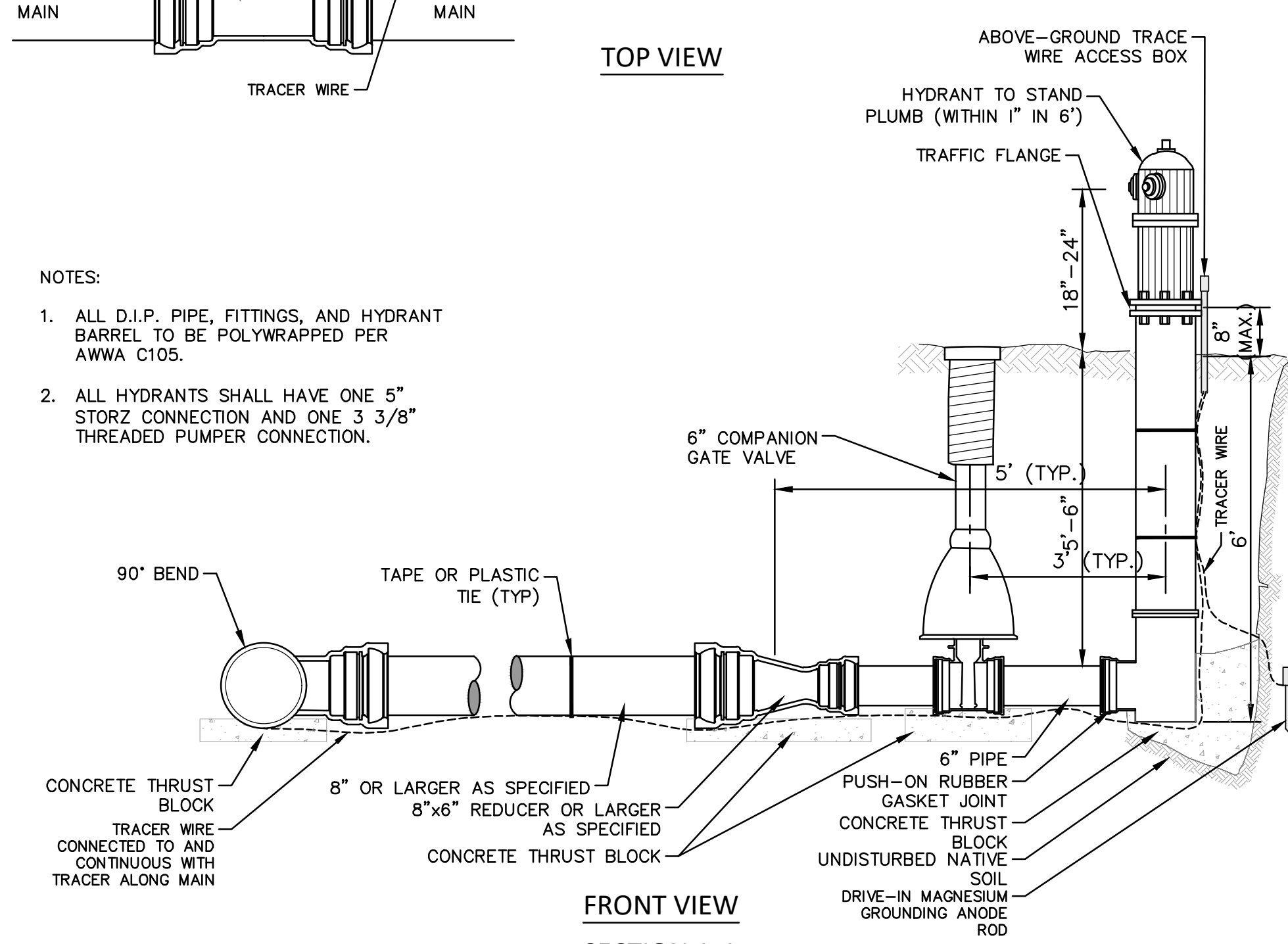
CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING  
S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS  
TPAR WALKWAY DEVICES

SCALE: N.T.S.  
DRAWING No. 2020031-10



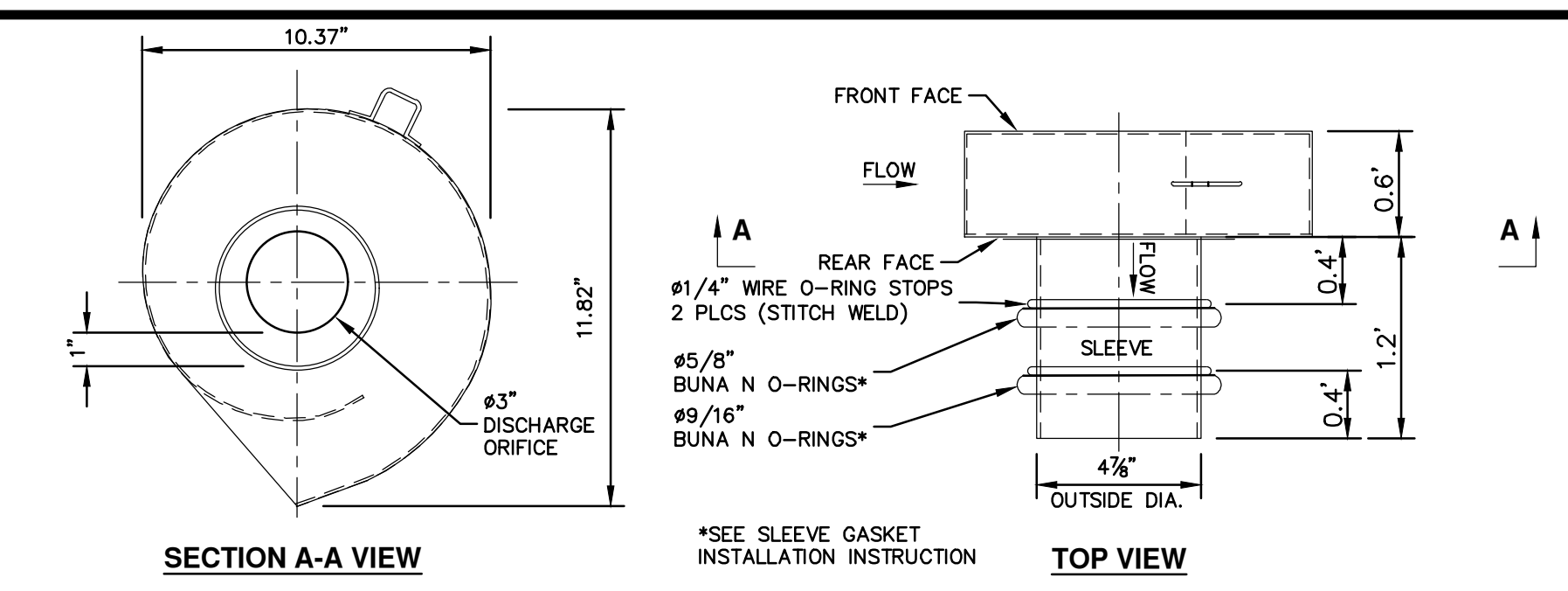
TOP VIEW

- NOTES:
1. ALL D.I.P. PIPE, FITTINGS, AND HYDRANT BARREL TO BE POLYWRAPPED PER AWWA C105.
  2. ALL HYDRANTS SHALL HAVE ONE 5" STORZ CONNECTION AND ONE 3 3/8" THREADED PUMPER CONNECTION.



FRONT VIEW  
SECTION A-A

MISC. DETAILS - SPECIAL DETAIL

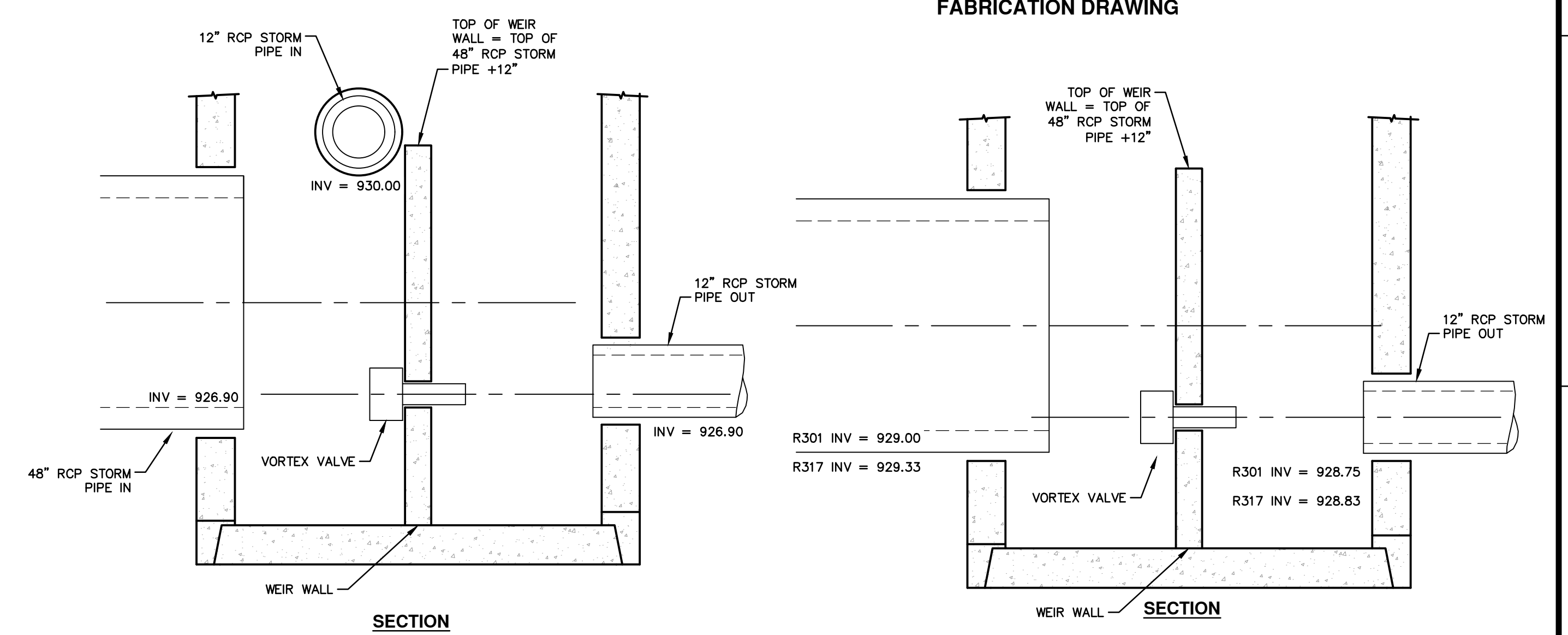


SECTION A-A VIEW

TOP VIEW

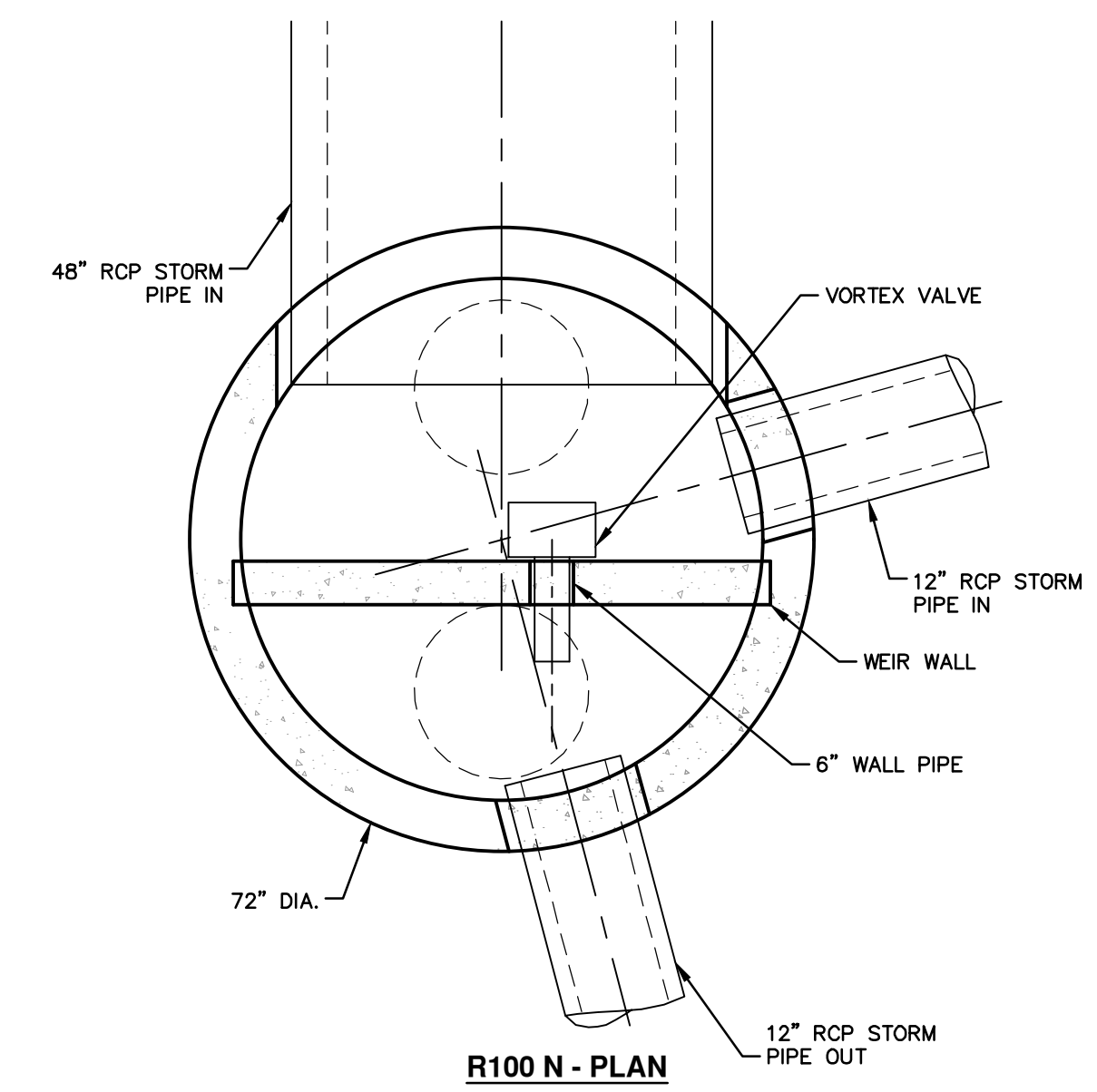
- NOTES:
1. ALL WELDS CONTINUOUS UNLESS NOTED OTHERWISE.
  2. MATERIALS:
    - 12 GA. 304L STAINLESS STEEL
    - (1) #5/8" AND (1) #9/16" BUNA N, 50 DUROMETER O-RINGS.
  3. MANUFACTURE HOUSING AND BYPASS DOOR AND ASSEMBLE PER DRAWING "2 mm FLUIDIC-AMP FABRICATION DETAILS FA1012-FA2023 HOUSING AND INLET"
  4. DISCHARGE ORIFICE LOCATED REAR FACE. #4" BYPASS OPENING LOCATED FRONT FACE.
  5. INCLUDES 20' BYPASS DOOR PULL CABLE.

**FLUIDIC-AMP VORTEX VALVE MODEL FA1012 WITH SLEEVE ATTACHMENT FOR Ø6" OPENING FABRICATION DRAWING**

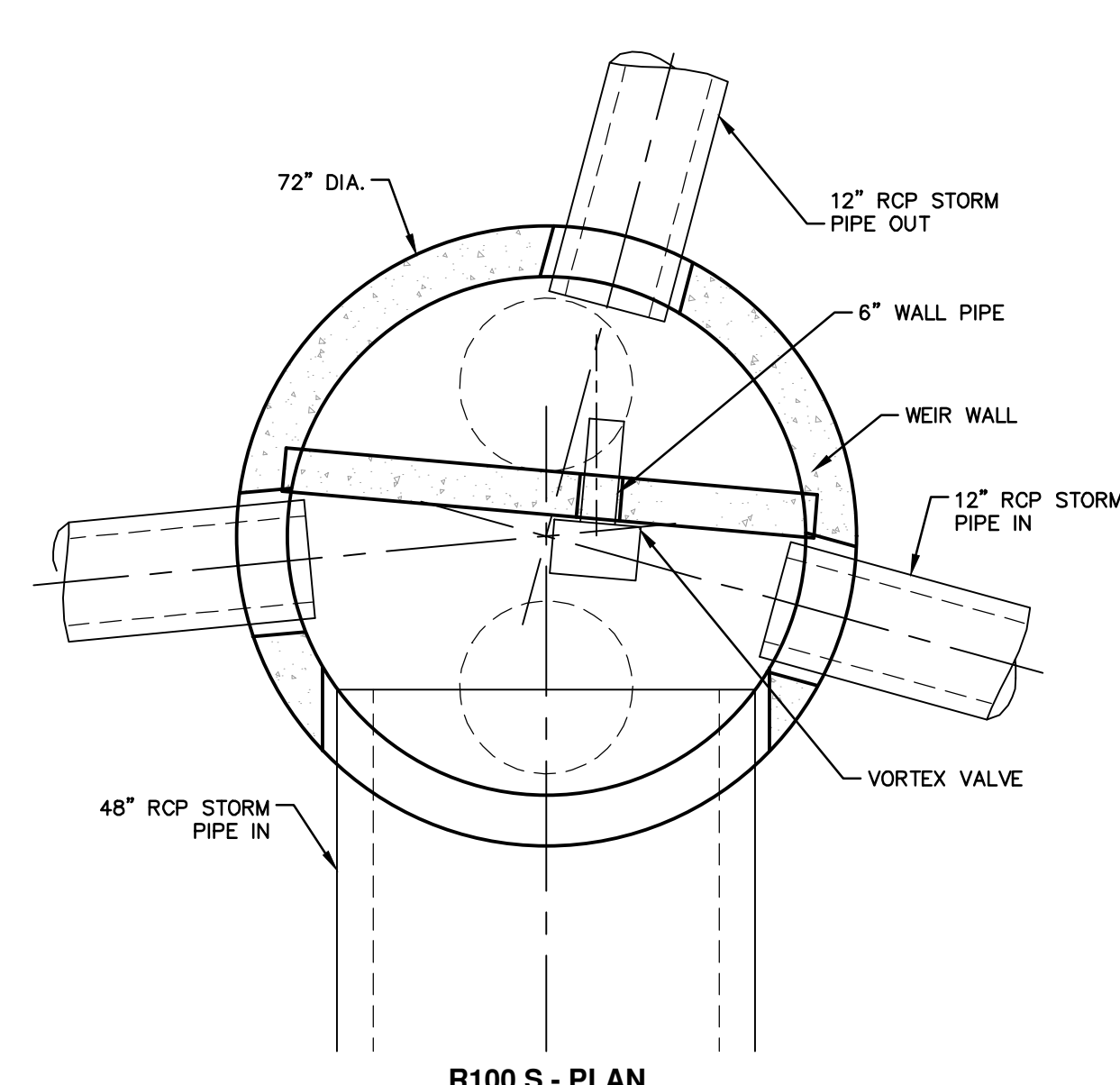


SECTION

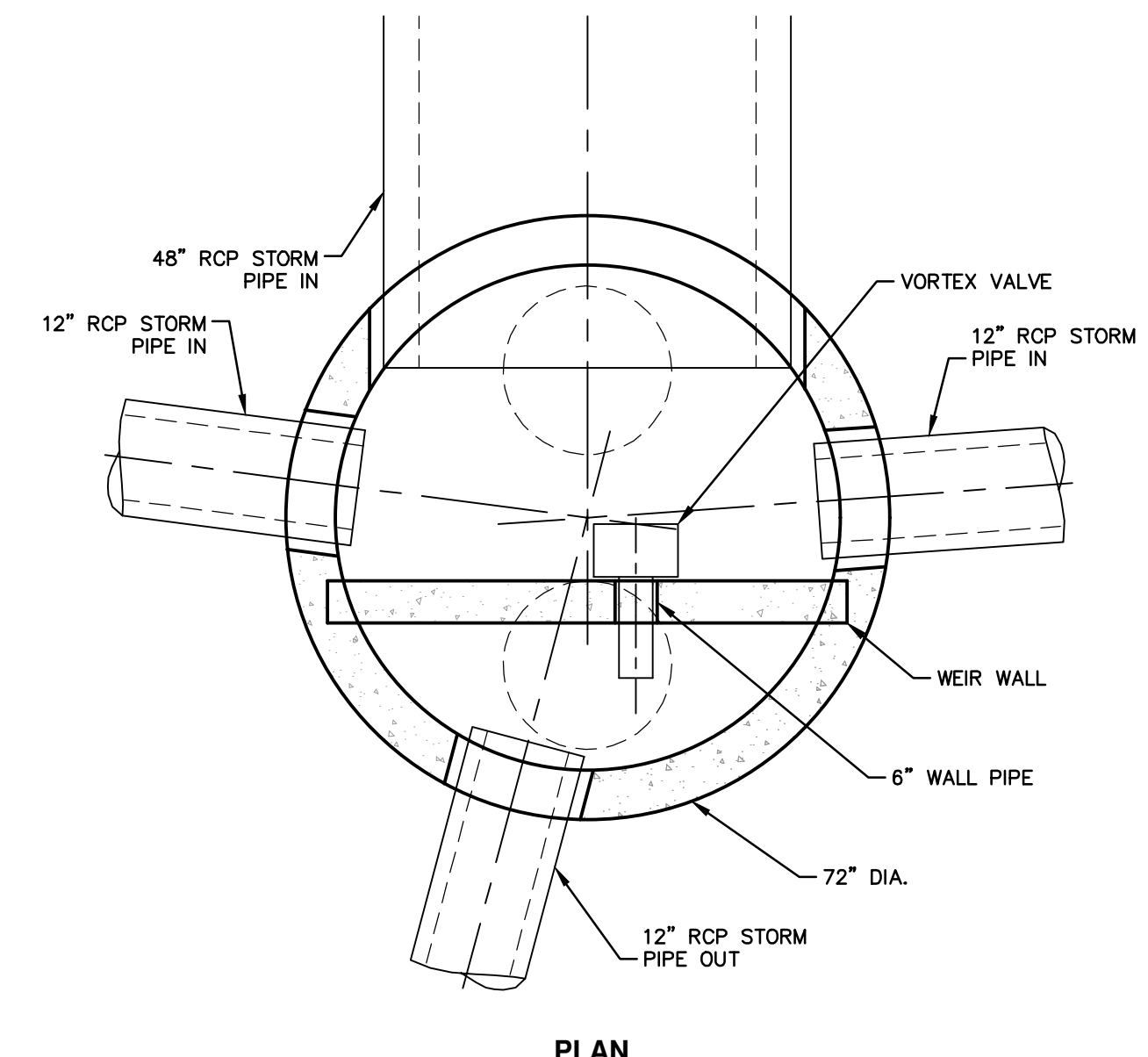
SECTION



R100 N - PLAN



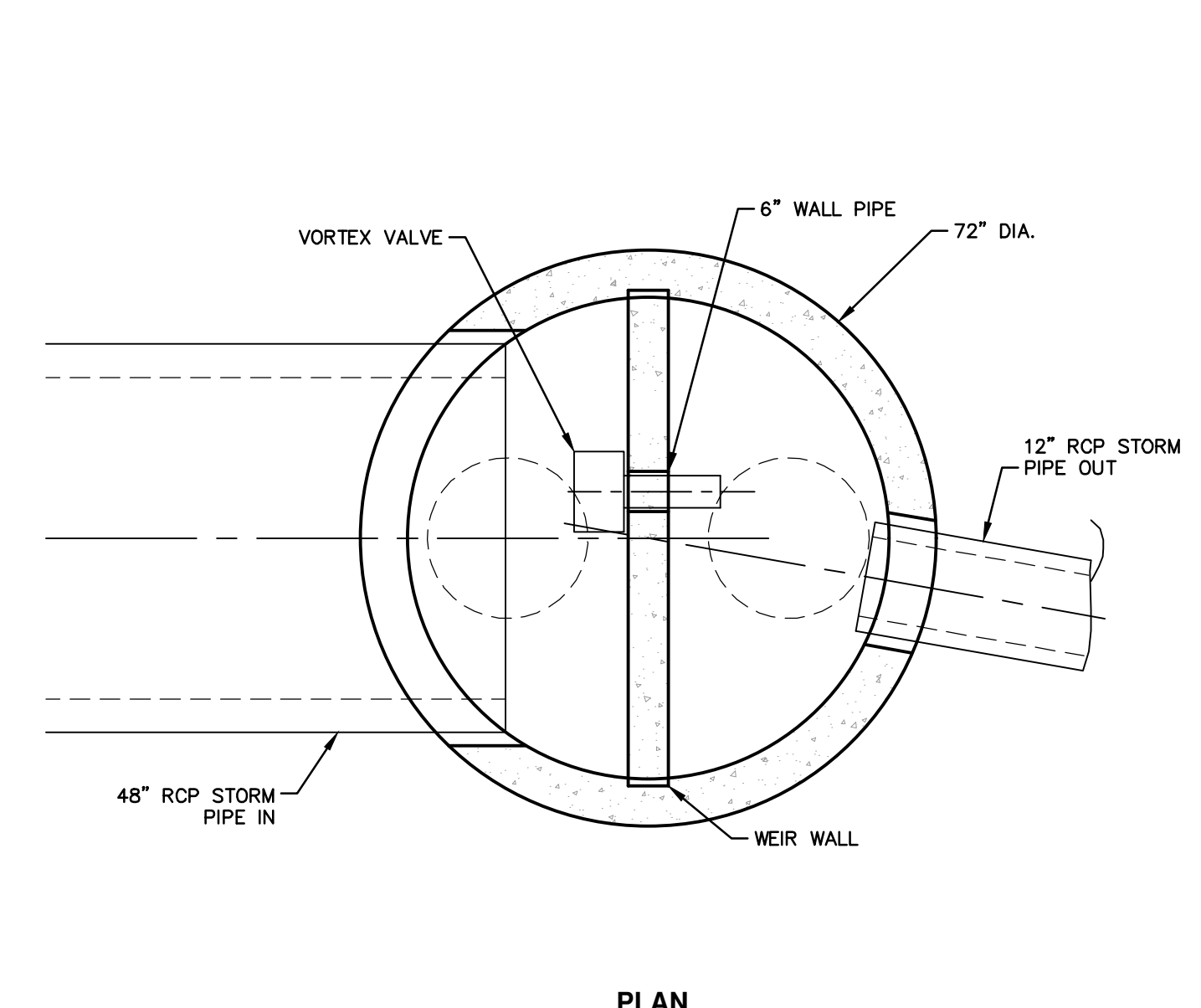
R100 S - PLAN



PLAN

**R202 UNDERGROUND STORMWATER STORAGE CONTROL STRUCTURE**

NOT TO SCALE



PLAN

**R301 & R317 UNDERGROUND STORMWATER STORAGE CONTROL STRUCTURE**

NOT TO SCALE

R:\2023002 Greenview\Plan Production\2023002Det.dwg Dwg Created: 30-Jan-24 - \_g2 standard bw.stb - Plot Date: 14-Feb-24

Know what's below. Call before you dig.

REV.	DATE	DRAWN	CHECKED	TA	TA	A2D	A2D	ADDENDUM 1	2-14-24
01	00	1-30-24							

**CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING**

**S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS**

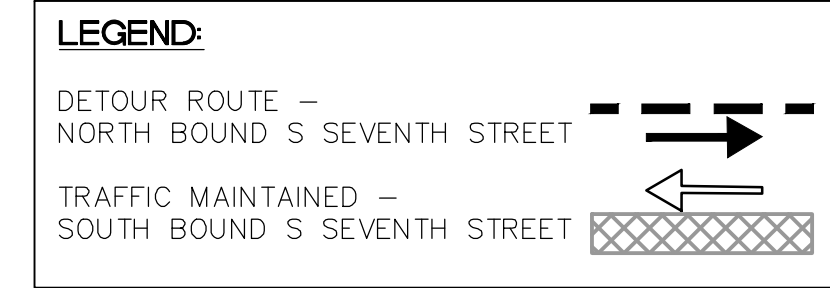
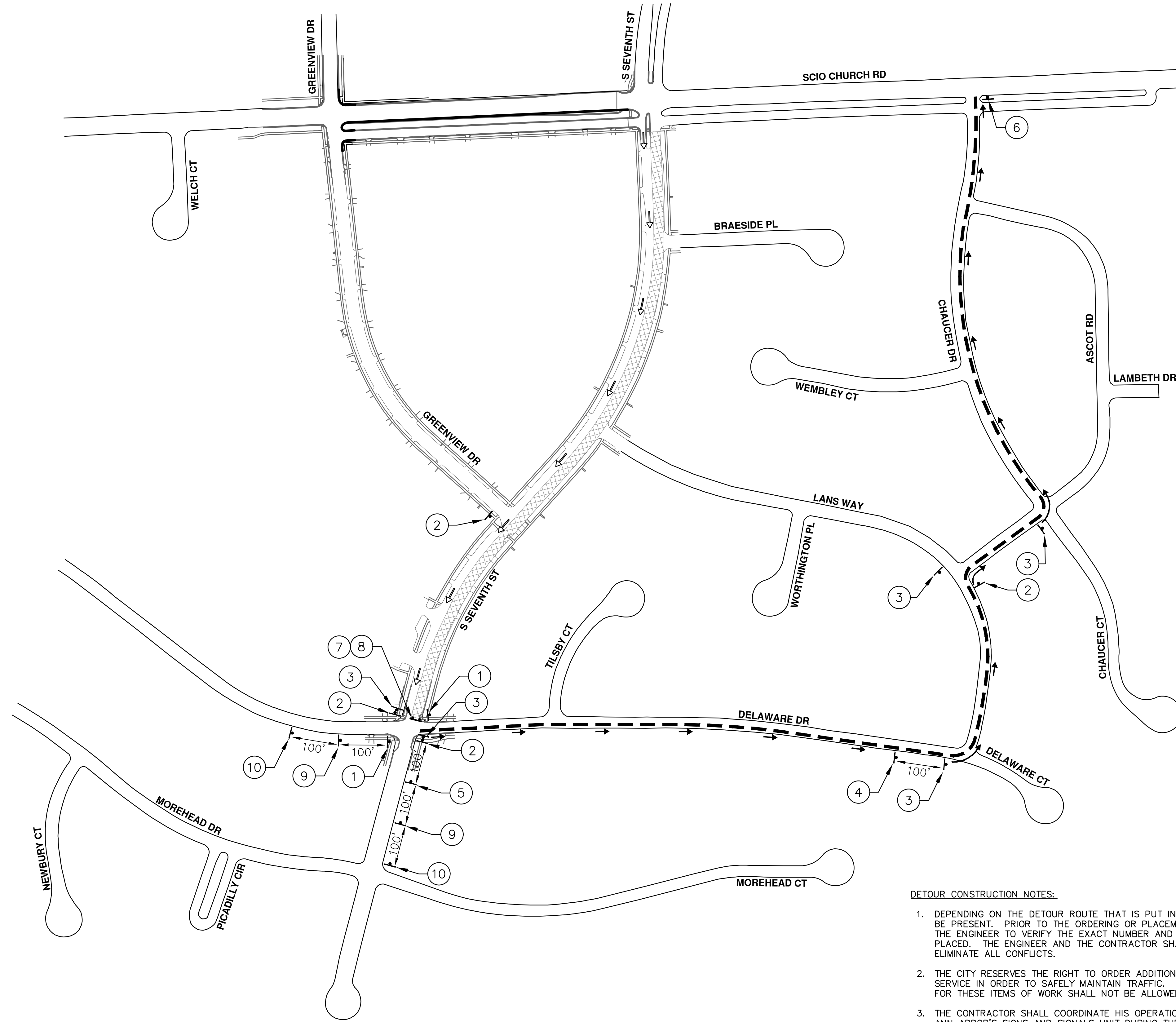
MISC. DETAILS

SCALE: NTS

DRAWING No. 2020031-11

SHEET No. 11 OF 92

DESCRIPTION



PRCMS MESSAGE PHASING	
PRIOR TO CONSTRUCTION	DURING CONSTRUCTION
S SEVENTH STREET CONSTRUCTION	NB S SEVENTH ST CLSD AT DELAWARE DR
MONTH DATE *	FOLLOW POSTED DETOUR

NOTE: PRCMS LOCATIONS AND MESSAGES WILL BE AS DIRECTED BY THE ENGINEER, TO BE PLACED ONE WEEK PRIOR TO CONSTRUCTION.

\*THE CONTRACTOR SHALL PLACE THE APPROPRIATE DATE AS APPROVED BY THE ENGINEER.

**DETOUR CONSTRUCTION NOTES:**

1. DEPENDING ON THE DETOUR ROUTE THAT IS PUT IN PLACE, CONFLICTING SIGNS MAY BE PRESENT. PRIOR TO THE ORDERING OR PLACEMENT OF ANY SIGNS, MEET WITH THE ENGINEER TO VERIFY THE EXACT NUMBER AND LOCATION OF THE SIGNS TO BE PLACED. THE ENGINEER AND THE CONTRACTOR SHALL WORK TOGETHER TO ELIMINATE ALL CONFLICTS.
2. THE CITY RESERVES THE RIGHT TO ORDER ADDITIONAL SIGNS AND PLACE THEM INTO SERVICE IN ORDER TO SAFELY MAINTAIN TRAFFIC. ADJUSTMENTS IN THE UNIT PRICE FOR THESE ITEMS OF WORK SHALL NOT BE ALLOWED FOR THESE OCCURRENCES.
3. THE CONTRACTOR SHALL COORDINATE HIS OPERATIONS WITH THOSE OF THE CITY OF ANN ARBOR'S SIGNS AND SIGNALS UNIT DURING THE COURSE OF THE DETOUR ROUTE ESTABLISHMENT TO EFFECTIVELY AND SAFELY MAINTAIN TRAFFIC. DO NOT ERECT ANY SIGNS UNTIL ITS LOCATION AND PROPOSED DATE OF INSTALLATION IS APPROVED BY THE ENGINEER.
4. THE DETOUR IS TO BE IN PLACE DURING S. SEVENTH STREET CONSTRUCTION. AS DIRECTED BY THE ENGINEER, THE CONTRACTOR WILL CLOSE AND DETOUR NORTH BOUND S. SEVENTH STREET TRAFFIC. SEE "SPECIAL PROVISION FOR MAINTAINING TRAFFIC AND CONSTRUCTION SEQUENCING" FOR DETAILS ON CONSTRUCTION STAGING, SEQUENCING, CLOSURE AND DETOUR LIMITATIONS, AND OTHER DETAILS.
5. REFERENCE THE "SPECIAL PROVISION FOR MAINTAINING TRAFFIC AND CONSTRUCTION SEQUENCING" FOR ADDITIONAL PROJECT REQUIREMENTS. THE CONTRACTOR'S ATTENTION IS SPECIFICALLY DIRECTED TO THE SECTION OF SAME SPECIAL PROVISION REGARDING COORDINATION WITH THE CITY SIGNS AND SIGNALS UNIT FOR MODIFICATIONS TO TRAFFIC SIGNALS FOR THE DETOUR.
6. THE CONTRACTOR SHALL FURNISH, ERECT, AND MAINTAIN SIGNS AS SHOWN ON THE PLANS OR OTHERWISE DIRECTED BY THE ENGINEER.
7. CONSTRUCTION WARNING SIGNS SHALL HAVE AN ORANGE, HIGH-INTENSITY, REFLECTORIZED BACKGROUND.
8. SIGNS SHALL CONFORM TO THE 2011 MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
9. THE CONTRACTOR SHALL DRIVE ALL SIGNS INTO EXPOSED GROUND OR INSERT INTO A BORED HOLE IN PAVEMENT AS NECESSARY TO PERMANENTLY SECURE. ALL HOLES IN PAVEMENT SHALL BE FILLED WITH ENGINEER-APPROVED MORTAR WHEN THE SIGN IS REMOVED AND NO LONGER NEEDED. COSTS FOR THIS WORK SHALL BE INCLUDED IN THE PAY ITEM "SIGN, TYPE B, TEMP, PRISMATIC, FURN & OPER"
10. ADVANCE WARNING SIGNS SHALL BE PROVIDED WITH TWO (2) TYPE A FLASHING LIGHTS AND ONE (1) DAY-GLOW ORANGE FLAG.
11. CITY TO BE NOTIFIED A MINIMUM OF 7 DAYS PRIOR TO IMPLEMENTING NORTH BOUND S. SEVENTH STREET DETOUR. MESSAGE BOARDS TO BE PLACED 7 DAYS PRIOR TO IMPLEMENTATION OF DETOUR.

NORTH BOUND S SEVENTH ST		
SIGN	NUMBER	QUANTITY
① NB S SEVENTH DETOUR 	D3-1	2
	M4-9S 30"x24"	2
② NB S SEVENTH DETOUR 	D3-1	3
	M4-9R 30"x24"	3
③ NB S SEVENTH DETOUR 	D3-1	5
	M4-9L 30"x24"	5
④ NB S SEVENTH DETOUR 	D3-1	1
	M4-9L (MOD) 30"x24"	1
⑤ NB S SEVENTH DETOUR 	D3-1	1
	M4-9R (MOD) 30"x24"	1
⑥ NB S SEVENTH END DETOUR	D3-1	1
	M4-8A 24"x18"	1
⑦ ROAD CLOSED	R11-2 48"x30"	1
⑧ NB S SEVENTH DETOUR 	M4-10R 48"x18"	1
	D3-1	2
⑨ NB S SEVENTH DETOUR AHEAD 	W20-2 36"x36"	2
	D3-1	2
⑩ NB S SEVENTH ROAD WORK AHEAD 	W20-1 36"x36"	2
	BARRICADE, TYPE III, HIGH INTENSITY, DOUBLE SIDED, LIGHTED, FURN & OPER - 2 EACH	
SIGN, PORTABLE, CHANGEABLE MESSAGE, FURN & OPER NTICIP-COMPLIANT - 2 EACH		
VERIFY EXACT QUANTITY AND LOCATION WITH ENGINEER PRIOR TO ORDERING		

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

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING  
S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS

DETOUR ROUTE - S. SEVENTH STREET

SCALE: 1" = 150'

DRAWING No. 2020031-12

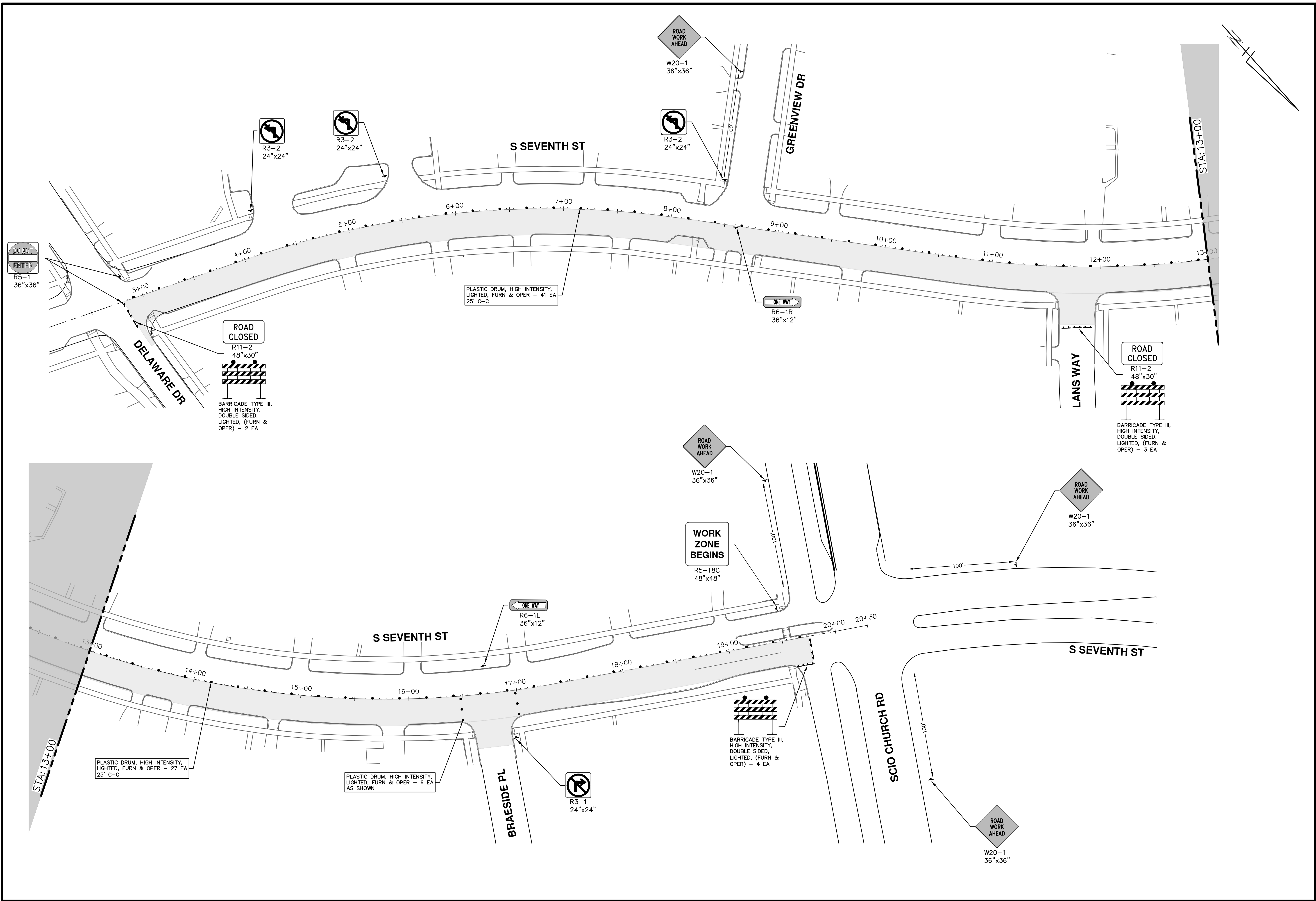
SHEET No. 12 OF 92

REV.	DATE	DESCRIPTION
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00	BID SET	
	REV.	

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PUBLIC SERVICES  
301 EAST HURON STREET  
ANN ARBOR, MI 48106-6647  
ANN ARBOR 734-794-4410  
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CITY OF ANN ARBOR  
MICHIGAN

R:\2020031 S 7th Street\Plan Production\2020031Mtrf1.dwg Dwg Created: 26-Jan-24 - \_g2 standard bw.stb - Plot Date: 14-Feb-24



**CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING**

**S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS**

TRAFFIC CONTROL PHASE II STAGE I - S SEVENTH ST.

SCALE: 1" = 40'

DRAWING No. 2020031-13

SHEET No. 13 OF 92

STA. 4+00 - STA. 20+00

City of Ann Arbor Public Services  
301 East Huron Street  
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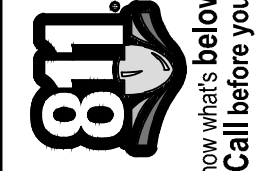
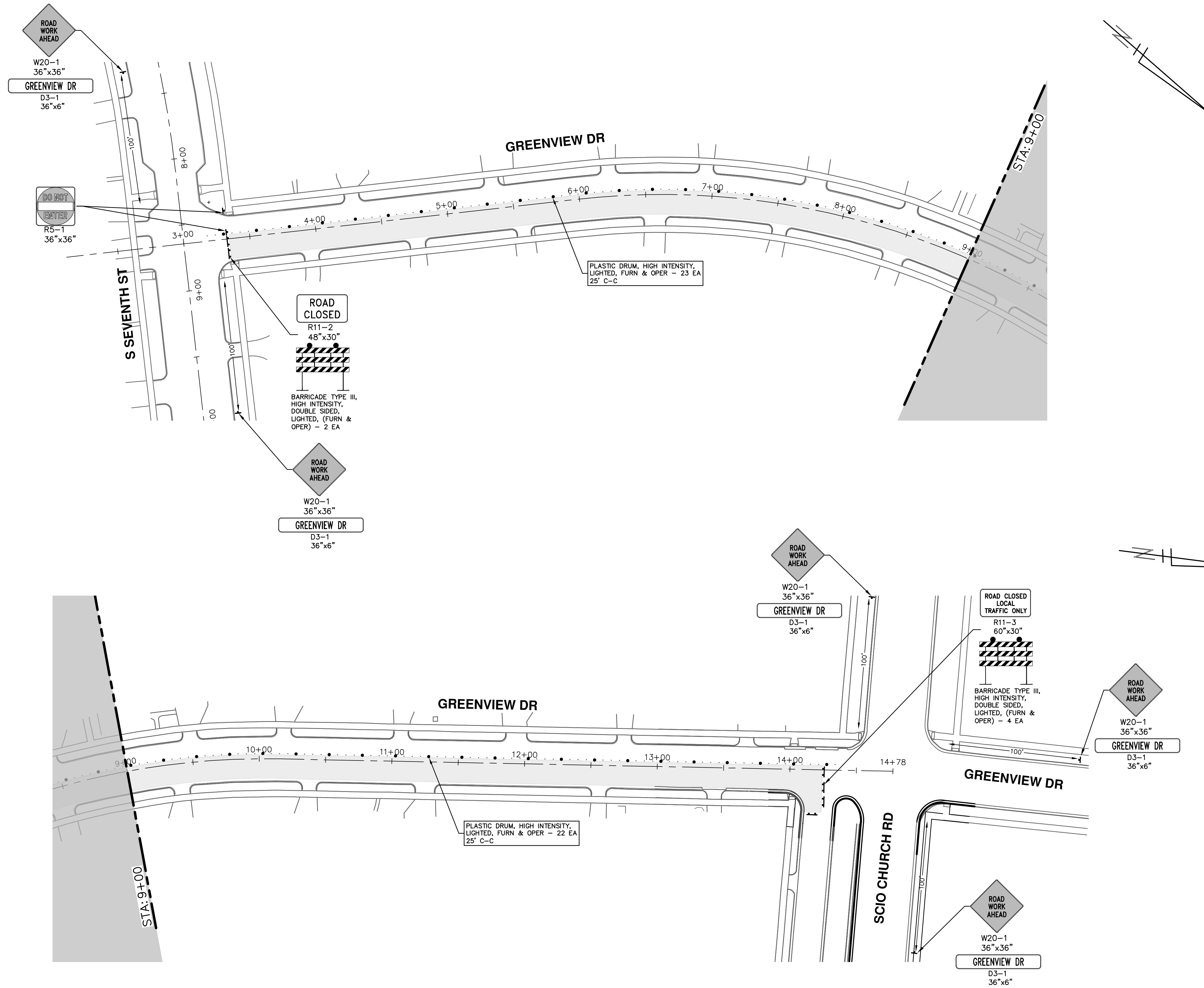
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00	1-30-24	A2D	TA	BID SET

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REV.	DATE	DRAWN	CHECKED	DESCRIPTION
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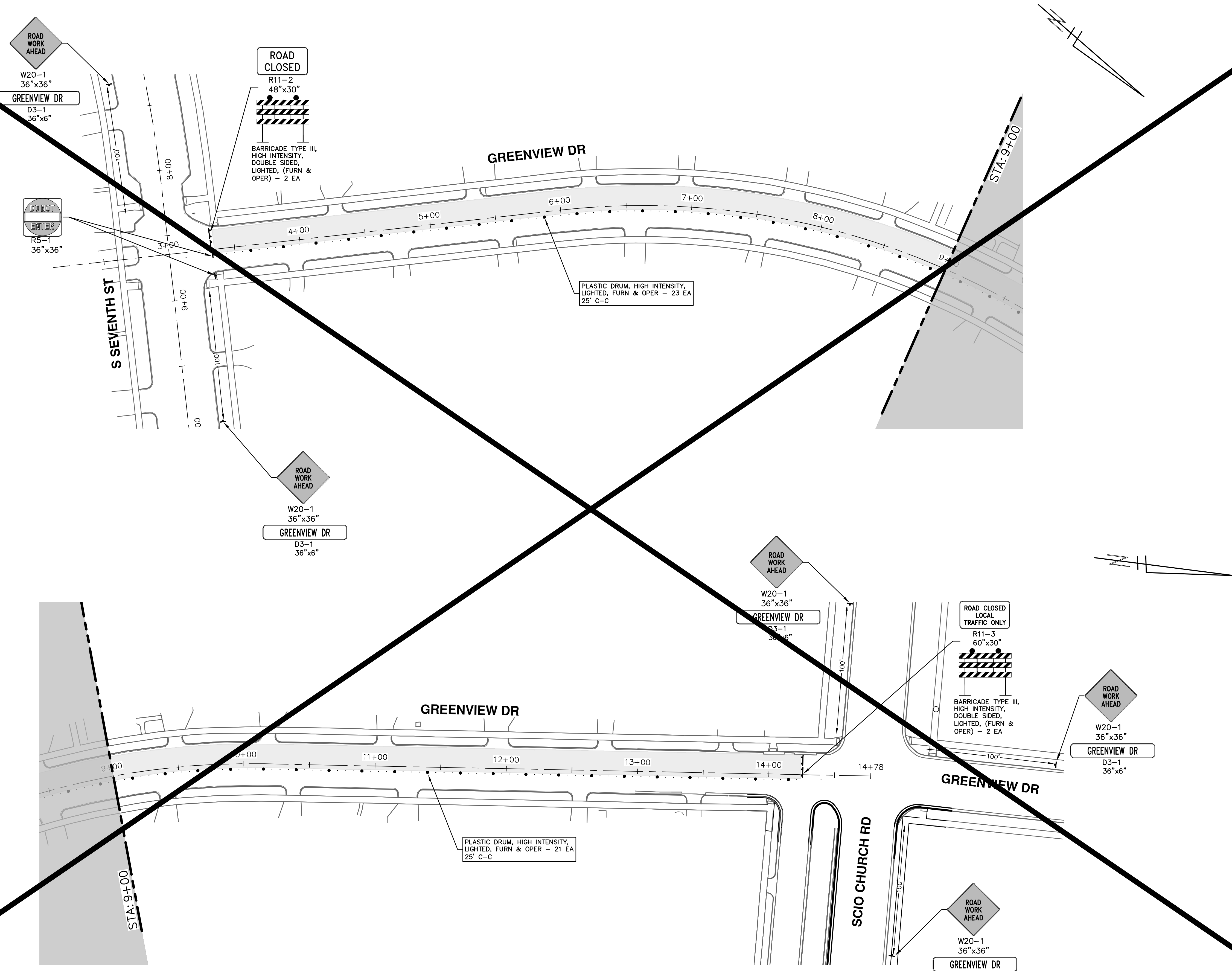
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**CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING**  
**S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS**  
TRAFFIC CONTROL PHASE I (STAGE 1 - GREENVIEW DRIVE SOUTH)

SCALE: 1" = 40'  
DRAWING No. 2020031-15

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Know what's below.  
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REV.	DATE	DESCRIPTION
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00	1-30-24	BID SET
		DRAWN
		CHECKED

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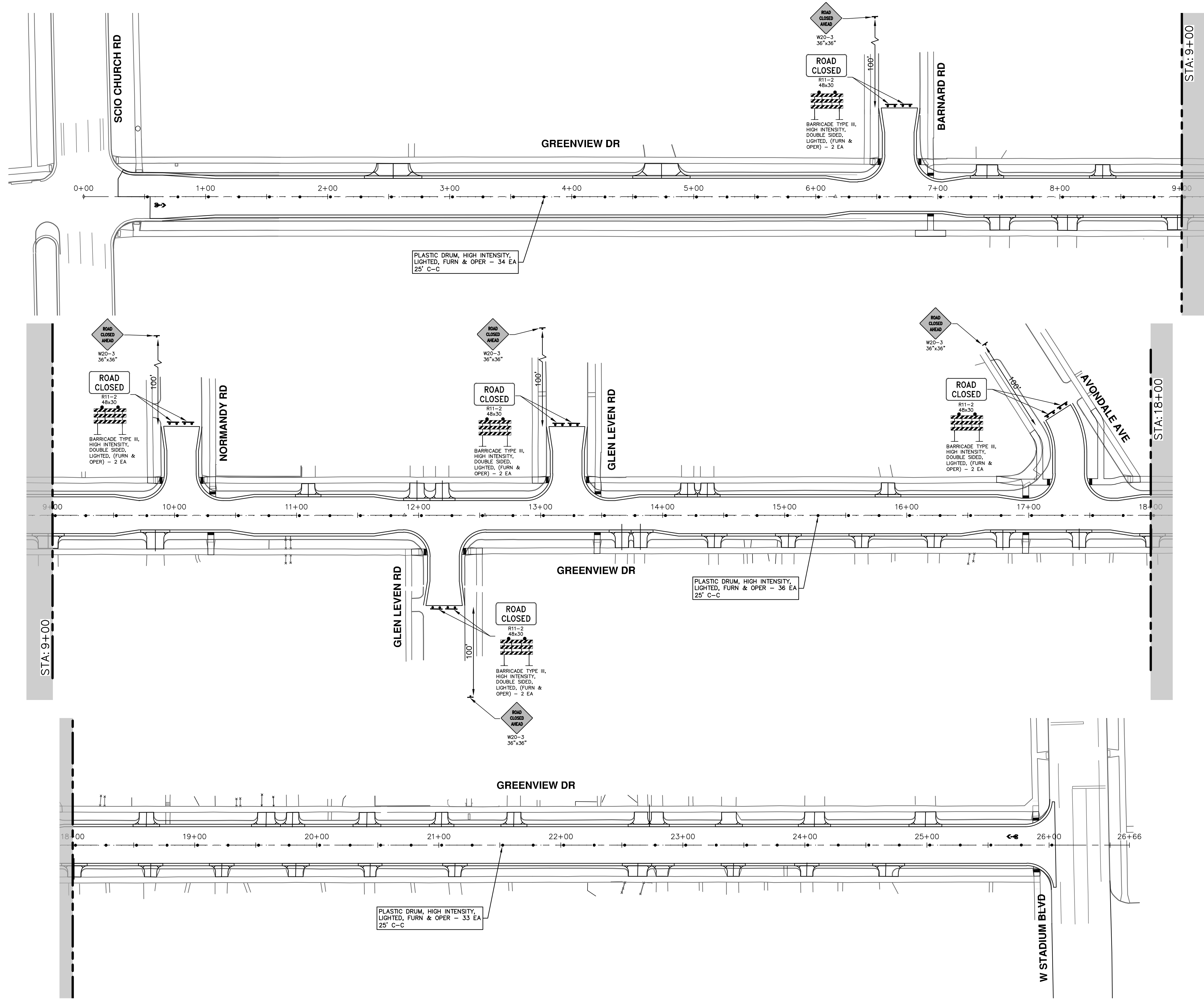
**CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING**  
**S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS**  
TRAFFIC CONTROL PHASE I / STAGE II - GREENVIEW DRIVE SOUTH

SCALE: 1" = 40'  
DRAWING No. 2020031-16  
SHEET No.

STA. 3+00 - STA. 14+76



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**CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING**

**S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS**

TRAFFIC CONTROL - GREENVIEW DRIVE NORTH

TRAFFIC CONTROL

**811**  
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REV.	DATE	DRAWN	CHECKED
01	2-14-24	A2D	TA
00	1-30-24	A2D	TA

DESCRIPTION

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301 EAST HURON STREET  
ANN ARBOR, MI 48106-6647  
ANN ARBOR  
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www.a2gov.org

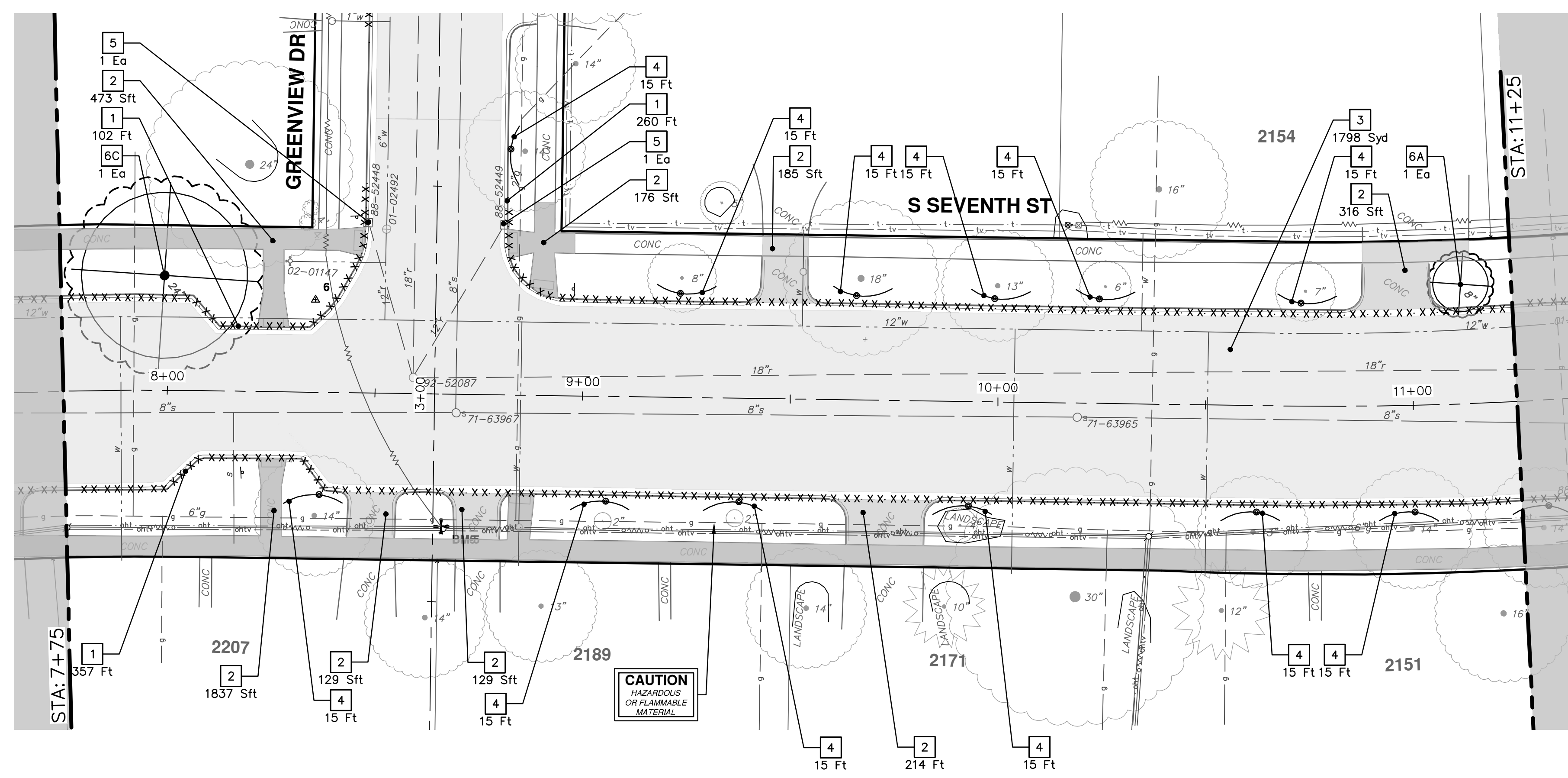
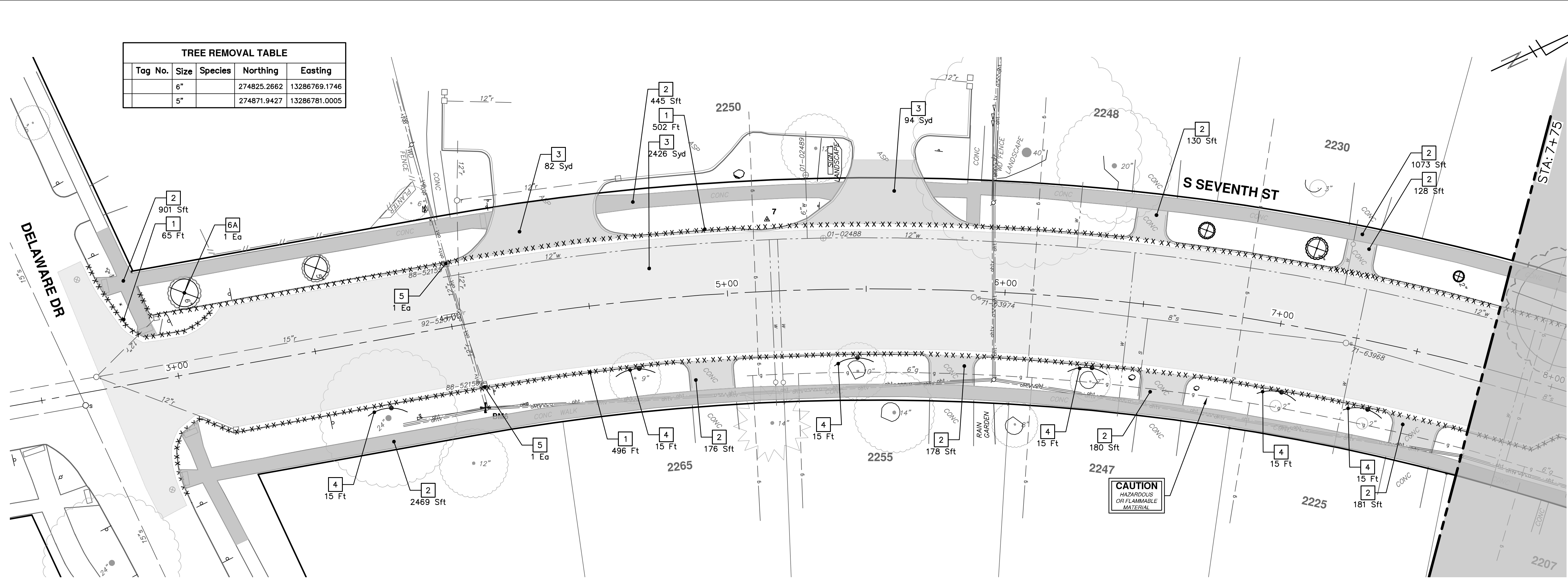
SCALE: 1" = 40'

DRAWING No. 2020031-18

SHEET No. 18 OF 92

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TREE REMOVAL TABLE				
Tag No.	Size	Species	Northing	Easting
	6"		274825.2662	13286769.1746
	5"		274871.9427	13286781.0005



TREE REMOVAL TABLE				
Tag No.	Size	Species	Northing	Easting
	3"		275168.5005	13286904.1218
	4"		275201.7034	13286926.6566
	2"		275243.7834	13286957.3859
	24"		275274.8562	13286986.1618
	8"		275508.5445	13287192.9019

REMOVAL KEY	
KEY	DESCRIPTION
1	Curb, Gutter, and Curb and Gutter, Any Type, Rem *
2	Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem
3	HMA, Any Thickness, Rem *
4	Tree Protective Fence
5	Erosion Control, Inlet Protection, Fabric Drop
6A	Tree, Rem, 6 in. - 12 in.
6B	Tree, Rem, 13 in. - 19 in.
6C	Tree, Rem, 20 in. - 29 in.

\* SAWCUT FULL DEPTH AT REMOVAL LIMITS AS DIRECTED BY ENGINEER

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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS

REMOVALS - S SEVENTH STREET

STA. 4+00 - STA. 11+25

DRAWING No. 2020031-19

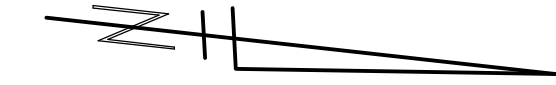
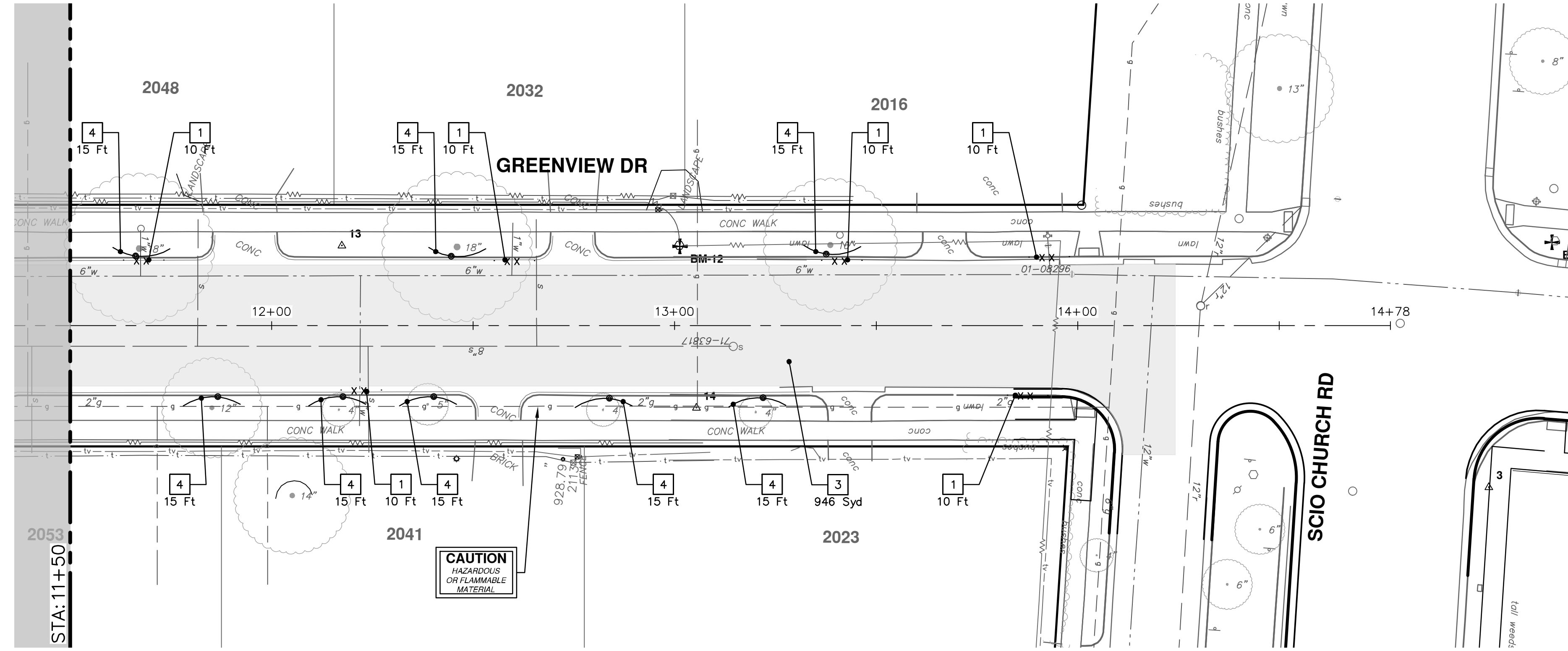
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REV.	DATE	DESCRIPTION
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00	1-30-24	BID SET

CITY OF ANN ARBOR  
PUBLIC SERVICES  
301 EAST HURON STREET  
PO BOX 8647  
ANN ARBOR MI 48108-8647  
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REMOVAL KEY	
KEY	DESCRIPTION
1	Curb, Gutter, and Curb and Gutter, Any Type, Rem *
2	Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem
3	HMA, Any Thickness, Rem *
4	Tree Protective Fence
5	Erosion Control, Inlet Protection, Fabric Drop
6A	Tree, Rem, 6 In. - 12 In.
6B	Tree, Rem, 13 In. - 19 In.
6C	Tree, Rem, 20 In. - 29 In.

\* SAWCUT FULL DEPTH AT REMOVAL LIMITS AS DIRECTED BY ENGINEER

**CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING**

**S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS**

REMOVALS - GREENVIEW DRIVE SOUTH

STA. 11+50 - STA. 14+24

SCALE: 1" = 20'

DRAWING No. 2020031-22

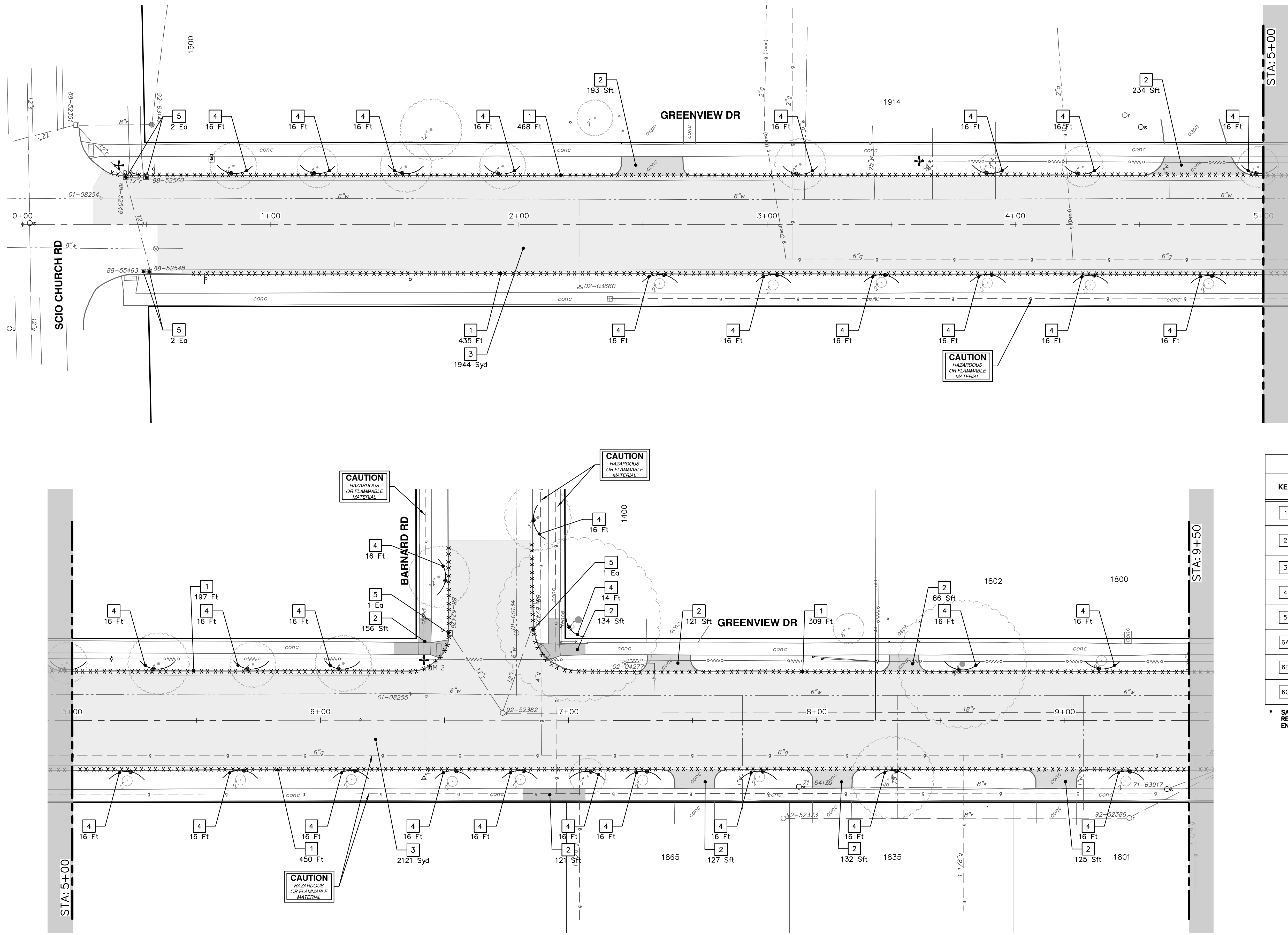
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REV.	DATE	DESCRIPTION
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	1-30-24	A2D
		DRAWN
		CHECKED

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REMOVAL KEY	
KEY	DESCRIPTION
1	Curb, Gutter, and Curb and Gutter, Any Type, Rem *
2	Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem
3	HMA, Any Thickness, Rem *
4	Tree Protective Fence
5	Erosion Control, Inlet Protection, Fabric Drop
6A	Tree, Rem, 6 In. - 12 In.
6B	Tree, Rem, 13 In. - 19 In.
6C	Tree, Rem, 20 In. - 29 In.

\* SAWCUT FULL DEPTH AT REMOVAL LIMITS AS DIRECTED BY ENGINEER



CITY OF ANN ARBOR  
PUBLIC SERVICES  
301 EAST HURON STREET  
ANN ARBOR, MI 48106-8647  
www.a2gov.org

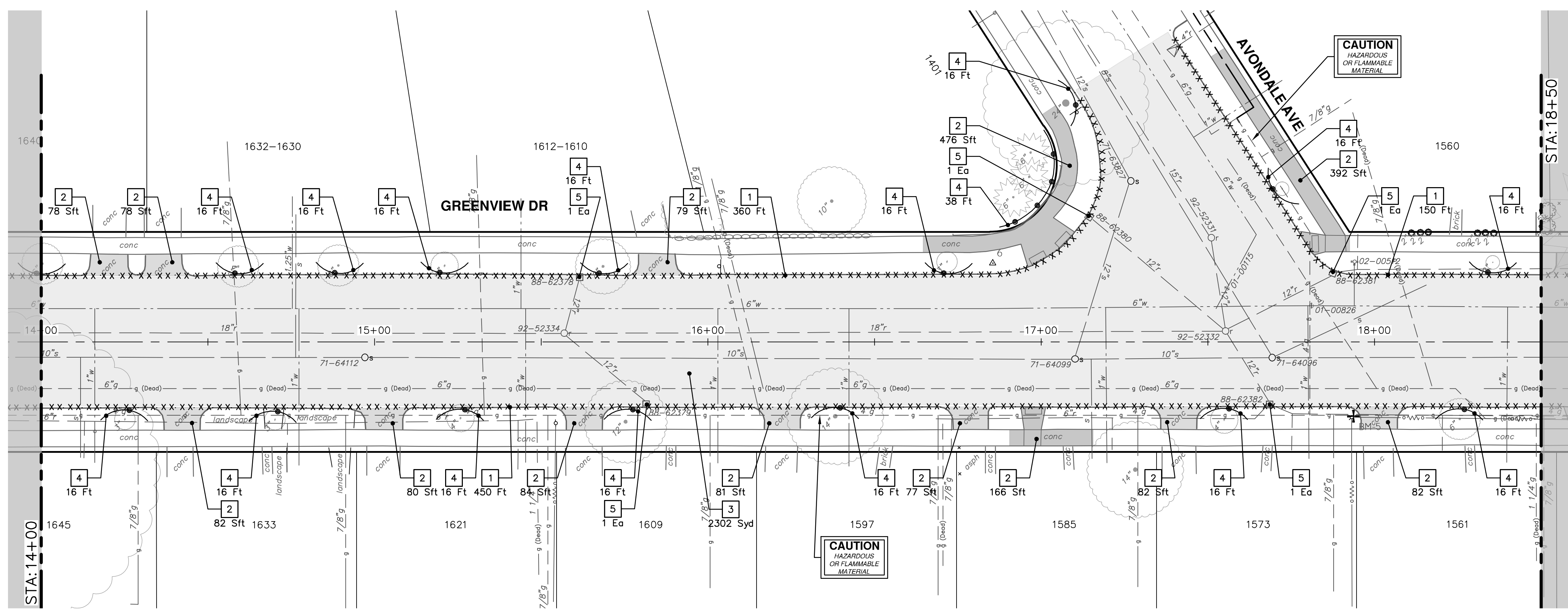
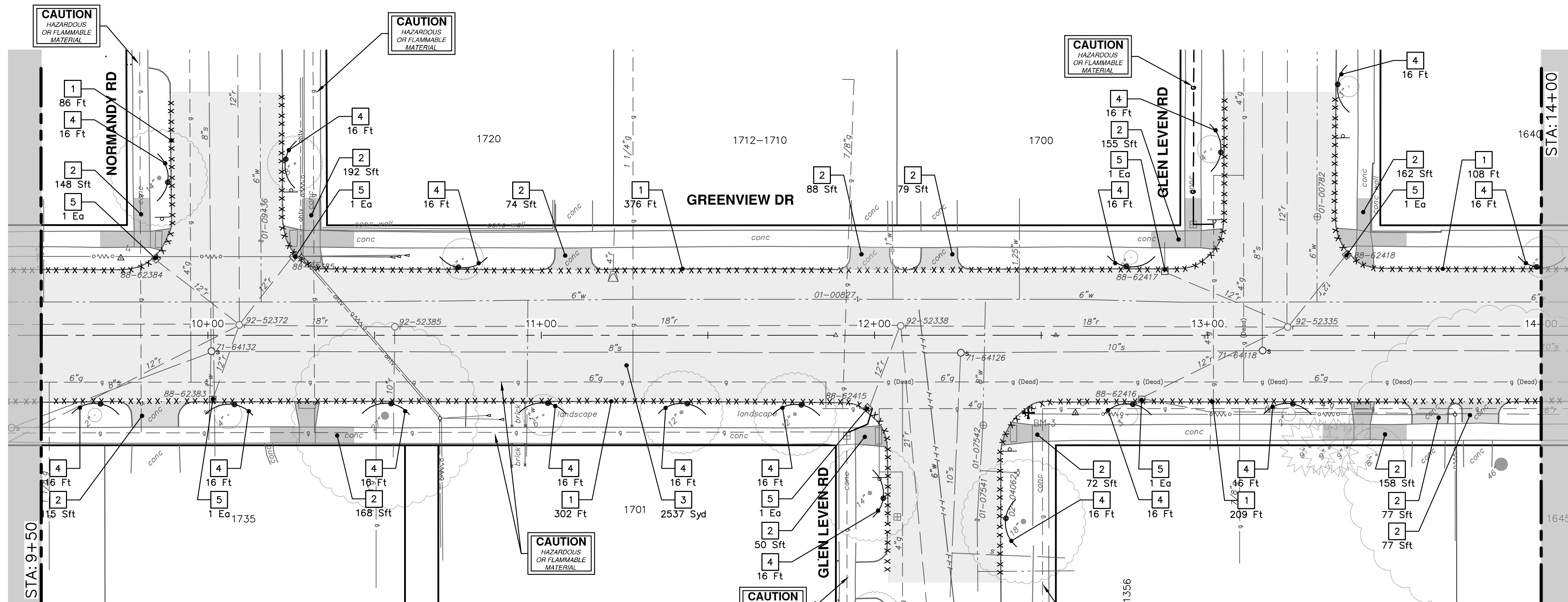


CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING  
S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS  
REMOVALS - GREENVIEW DRIVE NORTH  
STA. 0+00 - STA. 9+50

SHEET No. 23 OF 92  
DRAWING No. 2020031-23

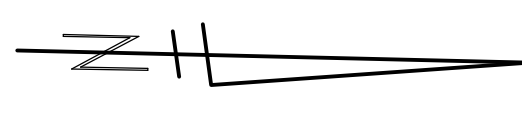
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00	1-30-24	BID SET

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REMOVAL KEY	
KEY	DESCRIPTION
1	Curb, Gutter, and Curb and Gutter, Any Type, Rem *
2	Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem
3	HMA, Any Thickness, Rem *
4	Tree Protective Fence
5	Erosion Control, Inlet Protection, Fabric Drop
6A	Tree, Rem, 6 In. - 12 In.
6B	Tree, Rem, 13 In. - 19 In.
6C	Tree, Rem, 20 In. - 29 In.

\* SAWCUT FULL DEPTH AT REMOVAL LIMITS AS DIRECTED BY ENGINEER



REV.	DATE	DRAWN	CHECKED	DESCRIPTION
01	2-14-24	A2D	TA	ADDENDUM 1
00	1-30-24	A2D	TA	BID SET

CITY OF ANN ARBOR  
PUBLIC SERVICES  
301 EAST HURON STREET  
ANN ARBOR, MI 48106-8647  
ANN ARBOR 734.754.4110  
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**CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING**  
**S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS**  
REMOVALS - GREENVIEW DRIVE NORTH

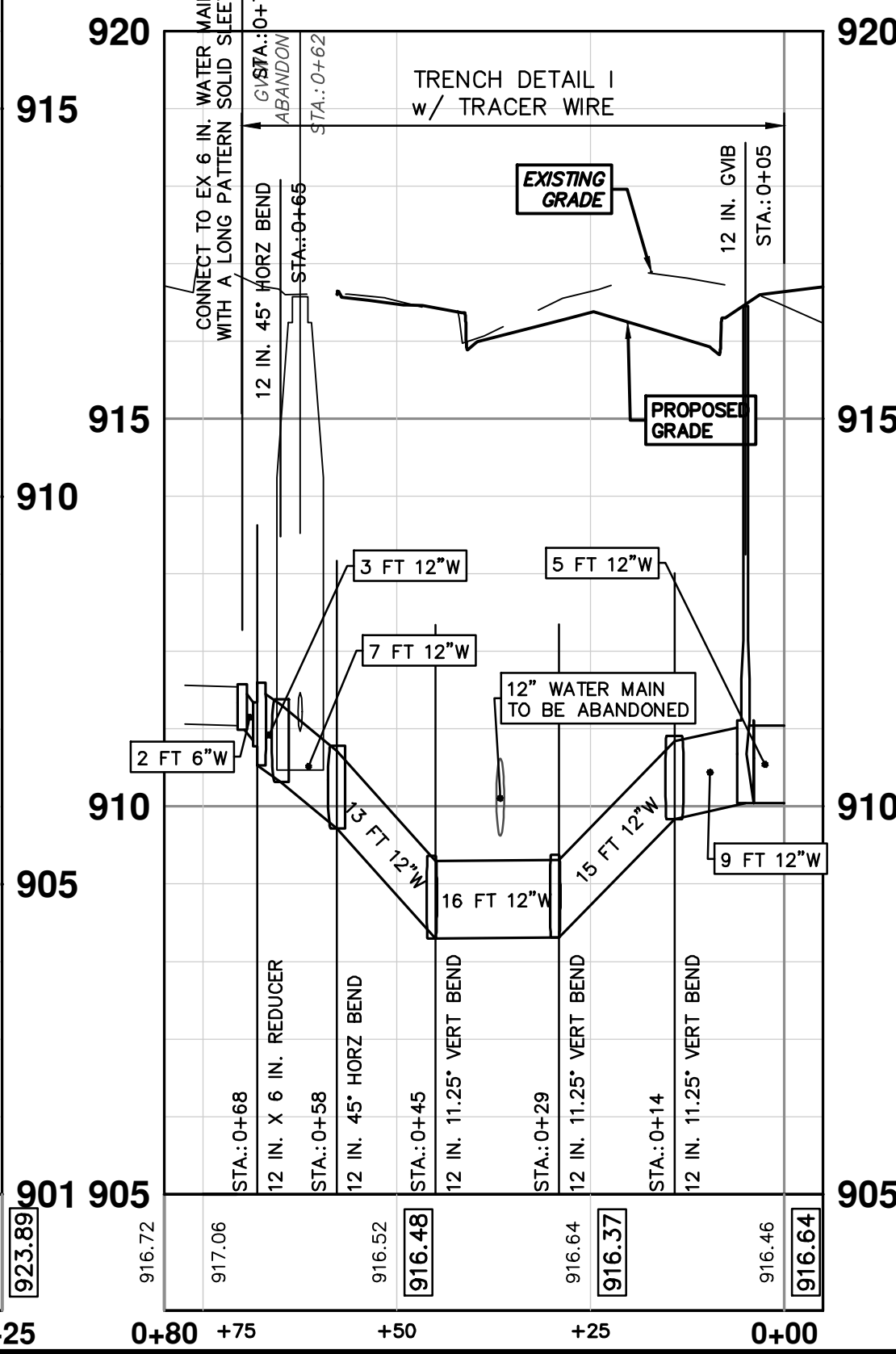
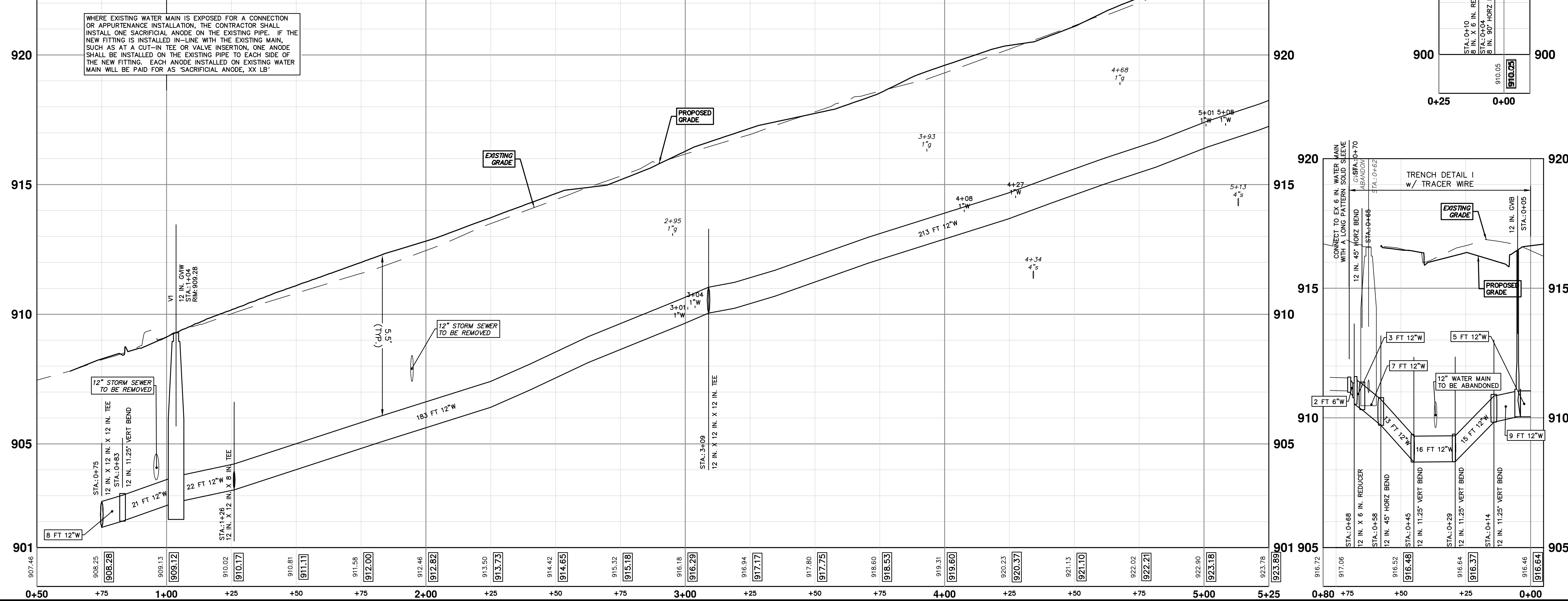
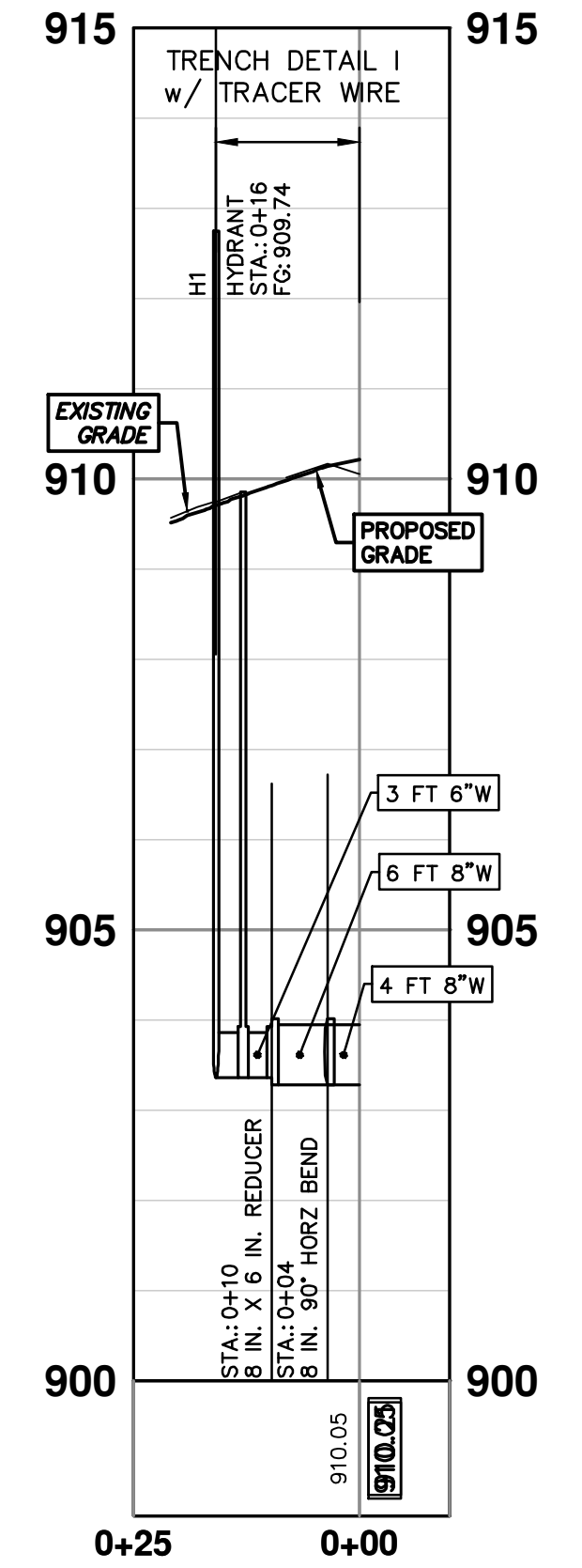
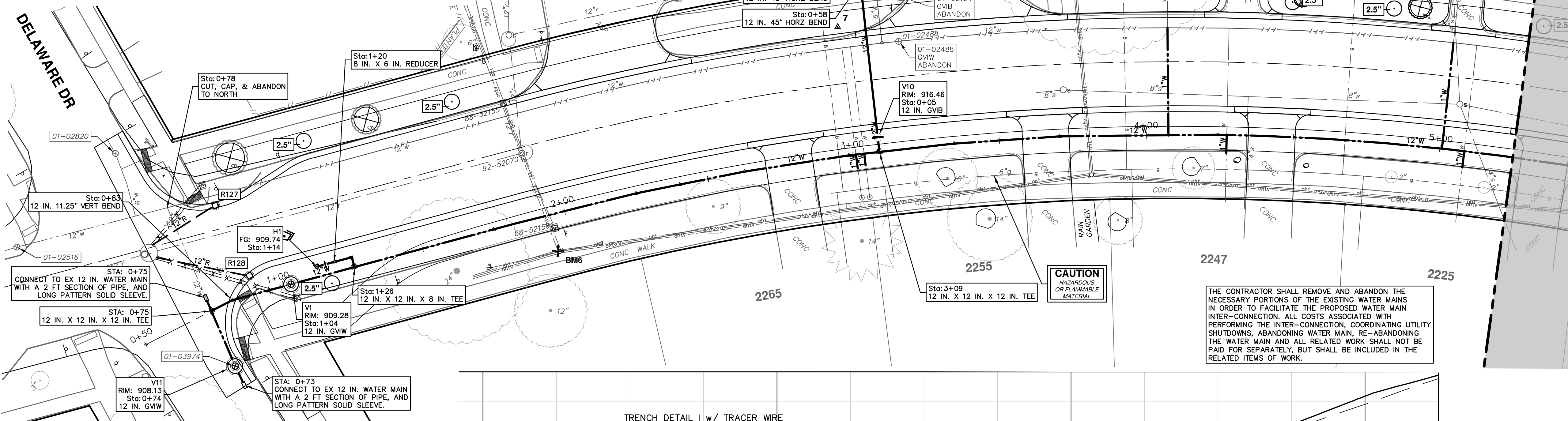
STA. 9+50 - STA. 18+50  
SCALE: 1" = 20'  
DRAWING No. 2020031-24




R:\2020031 S 7th Street\Plan Production\2020031Wat.dwg Dwg Created: 30-Jan-24 - \_a2 standard bw.stb - Plot Date: 14-Feb-24

WATER MAIN STRUCTURES			
STRUCTURE	TYPE	STATION	RIM
V11	12 in. GVIW	0+74	908.13
V1	12 in. GVIW	1+04	909.28
V10	12 in. GVIB	3+09	916.46


WATER MAIN STRUCTURES			
STRUCTURE	TYPE	STATION	FG
H1	HYDRANT	0+16	909.74





Know what's below.  
Call before you dig.

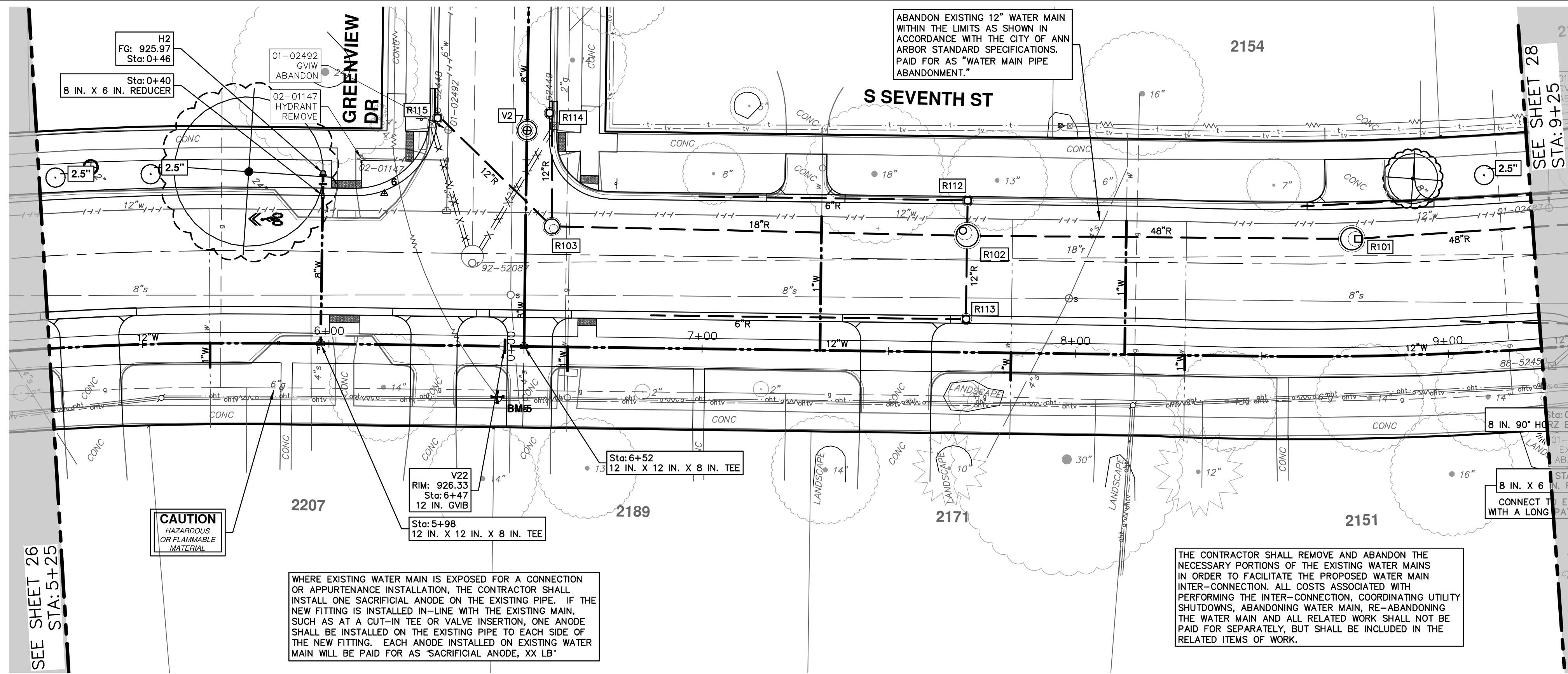
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00	1-30-24	BID SET



**CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING**  
**S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS**  
 WATER MAIN - S SEVENTH STREET  
 STA. 0+50 - STA. 5+25

SCALE PLAN: 1" = 20'  
 PROFILE: 1" = 2'  
 DRAWING NO. 2020031-26  
 SHEET No. 26 OF 92

R:\2020031 S 7th Street\Plan Production\2020031Wat.dwg Dwg Created: 30-Jan-24 - \_a2 standard bw.stb - Plot Date: 14-Feb-24

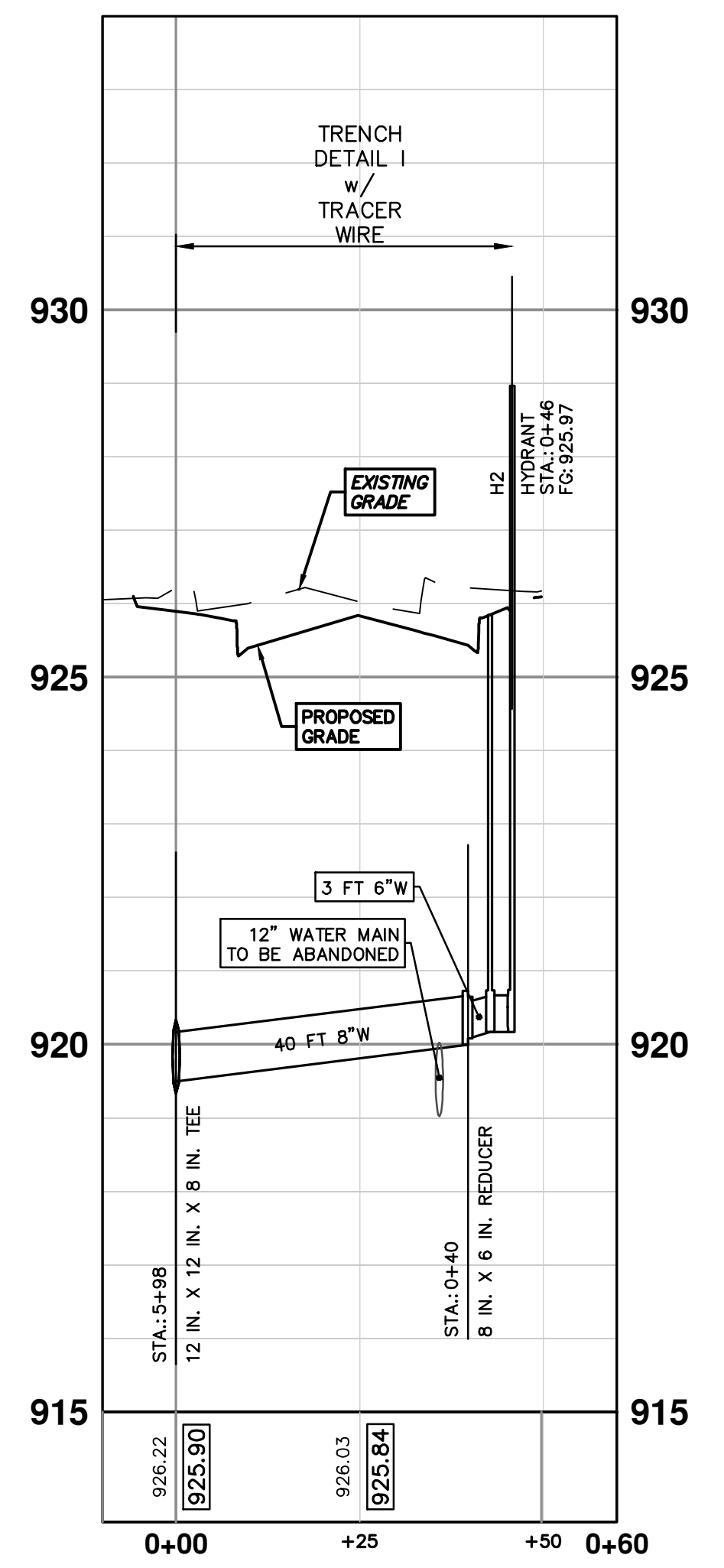
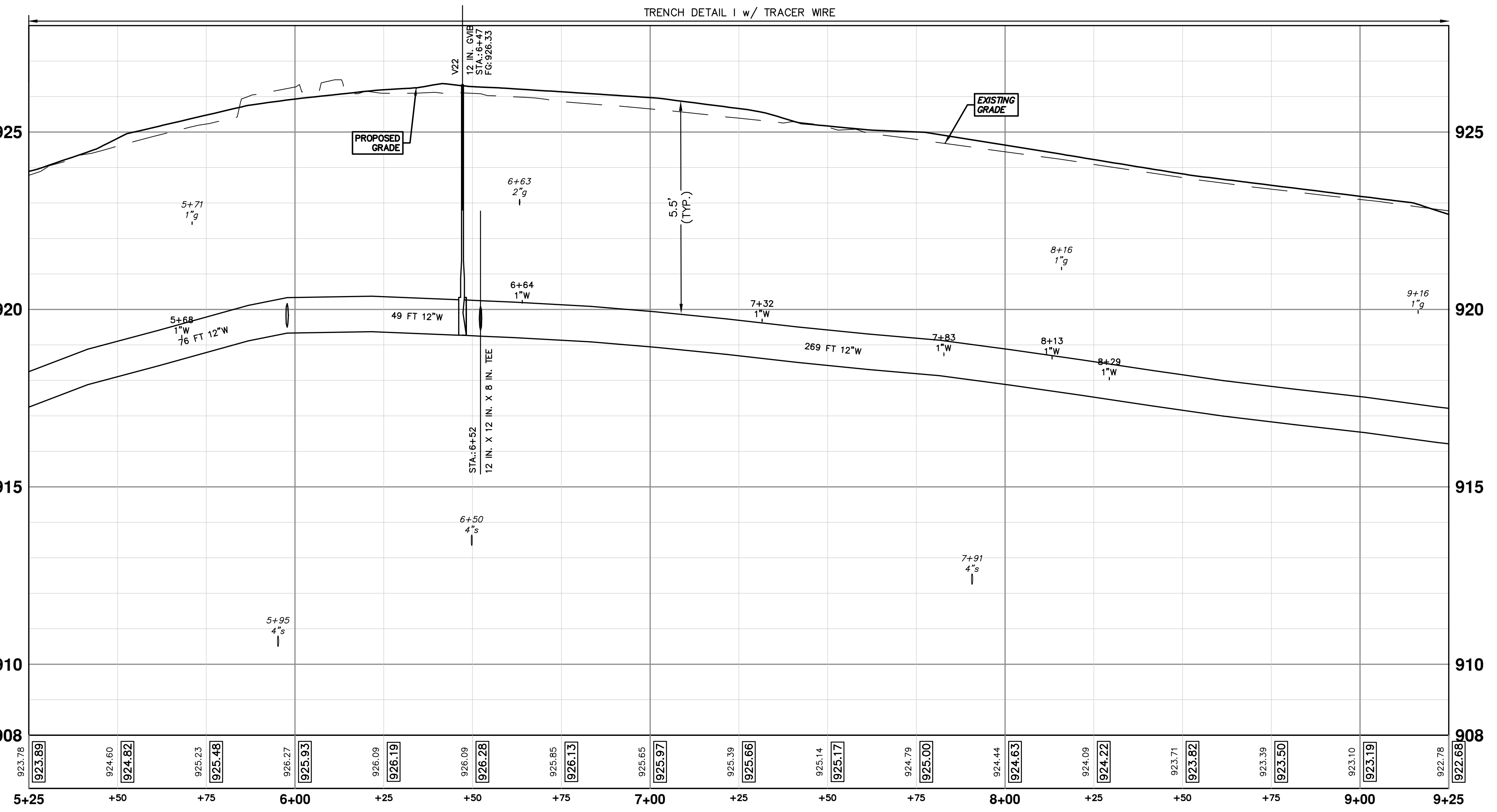



WATER MAIN STRUCTURES			
STRUCTURE	TYPE	STATION	RIM
V22	12 in. G.VIB	6+47	926.33

WATER MAIN STRUCTURES			
STRUCTURE	TYPE	STATION	FG
H2	HYDRANT	0+46	925.97

WHERE EXISTING WATER MAIN IS EXPOSED FOR A CONNECTION OR MAINTENANCE INSTALLATION, THE CONTRACTOR SHALL INSTALL ONE SACRIFICIAL ANODE ON THE EXISTING PIPE. IF THE NEW FITTING IS INSTALLED IN-LINE WITH THE EXISTING MAIN, SUCH AS AT A CUT-IN TEE OR VALVE INSERTION, ONE ANODE SHALL BE INSTALLED ON THE EXISTING PIPE TO EACH SIDE OF THE NEW FITTING. EACH ANODE INSTALLED ON EXISTING WATER MAIN WILL BE PAID FOR AS "SACRIFICIAL ANODE, XX LB"

THE CONTRACTOR SHALL REMOVE AND ABANDON THE NECESSARY PORTIONS OF THE EXISTING WATER MAINS IN ORDER TO FACILITATE THE PROPOSED WATER MAIN INTER-CONNECTION. ALL COSTS ASSOCIATED WITH PERFORMING THE INTER-CONNECTION, COORDINATING UTILITY SHUTDOWNS, ABANDONING WATER MAIN, RE-ABANDONING THE WATER MAIN AND ALL RELATED WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE RELATED ITEMS OF WORK.





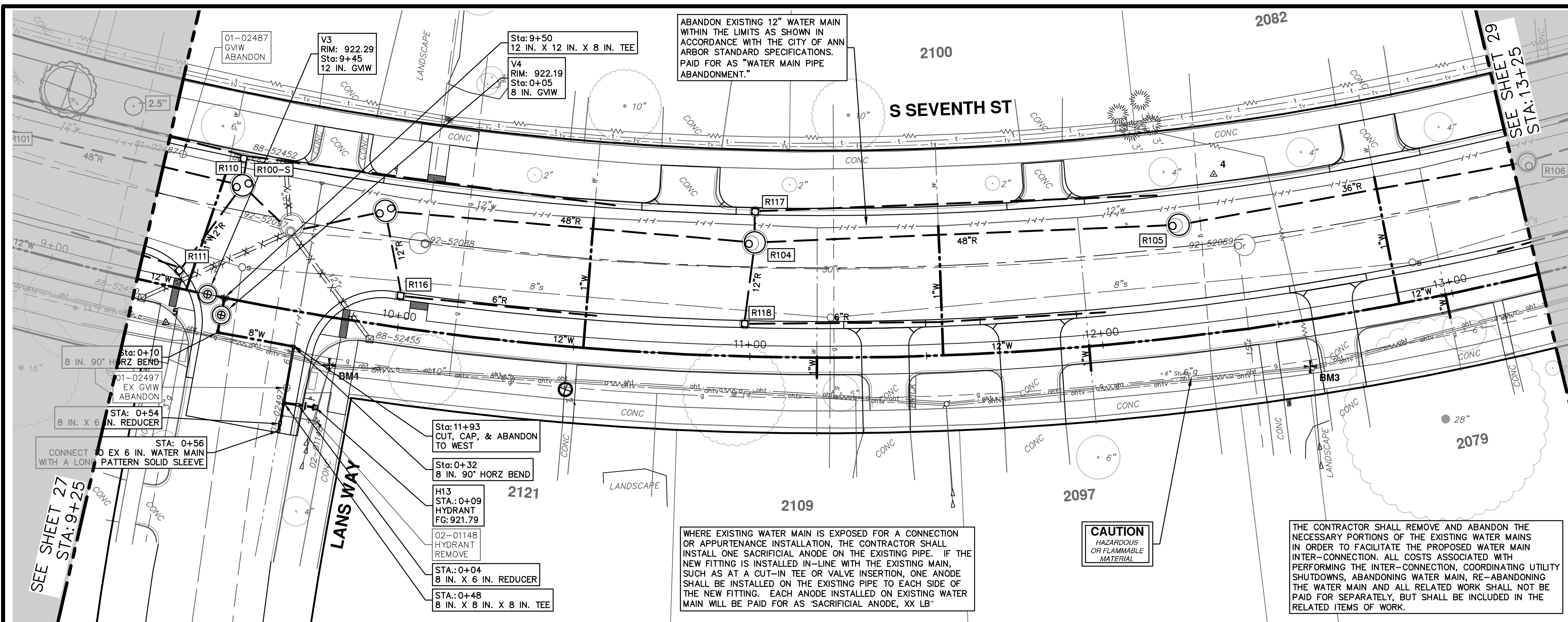
**CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING**  
**S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS**  
 WATER MAIN - S SEVENTH STREET  
 STA. 5+25 - STA. 9+25

811  
Know what's below.  
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REV.	DATE	DRAWN	CHECKED	DESCRIPTION
01	ADDENDUM 1			
00	BID SET			

SCALE PLAN: 1" = 20'  
 PROFILE: 1" = 2'  
 DRAWING No. 2020031-27  
 SHEET No. 27 OF 92

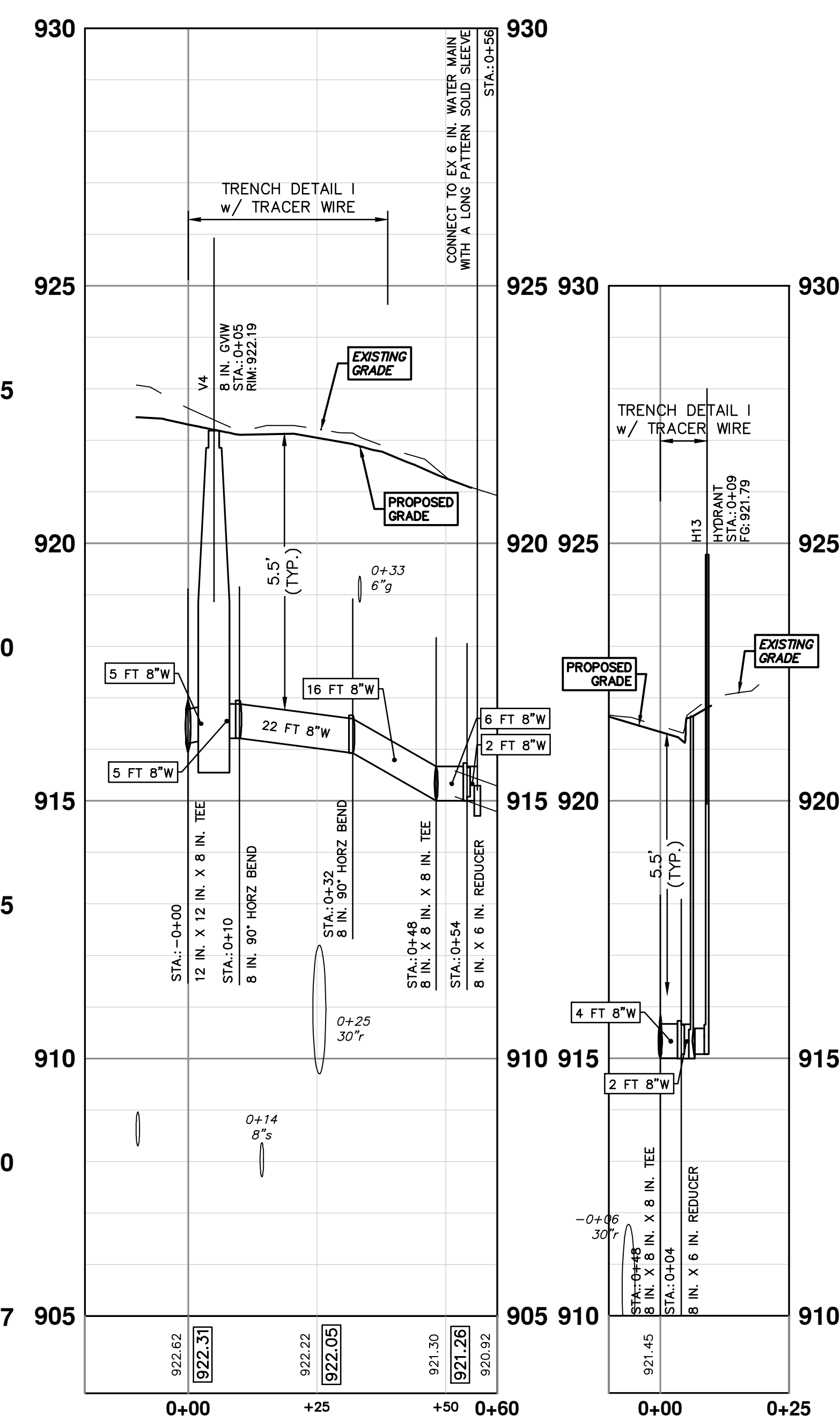
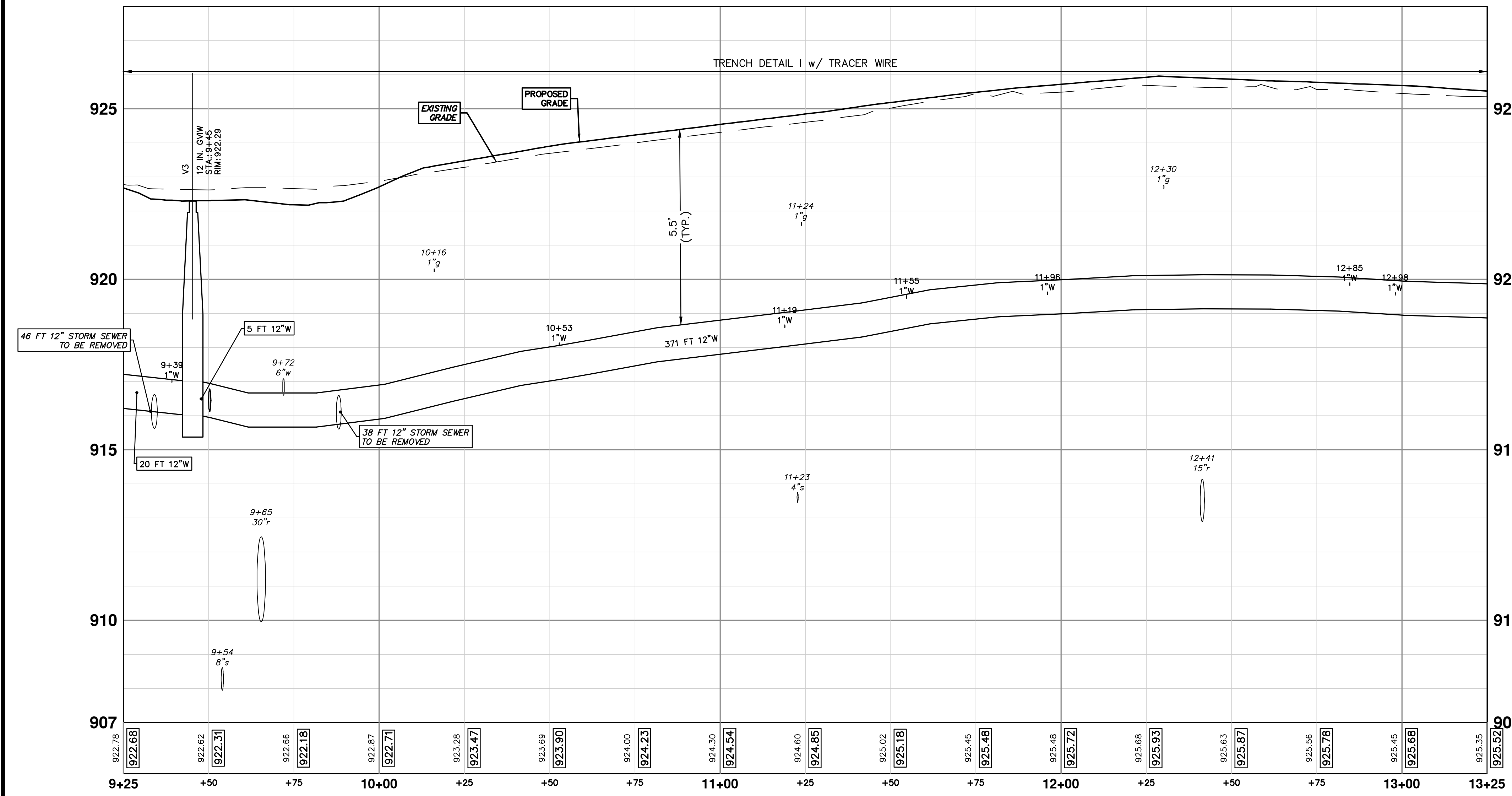
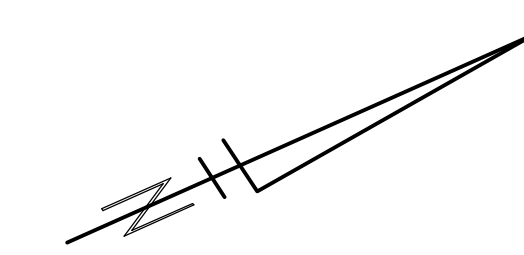
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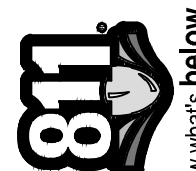


WATER MAIN STRUCTURES			
STRUCTURE	TYPE	STATION	RIM
V4	8 in. G.V.W	0+05	922.19
V3	12 in. G.V.W	9+45	922.29


WATER MAIN STRUCTURES			
STRUCTURE	TYPE	STATION	FG
H13	HYDRANT	0+09	921.79





Know what's below.  
Call before you dig.

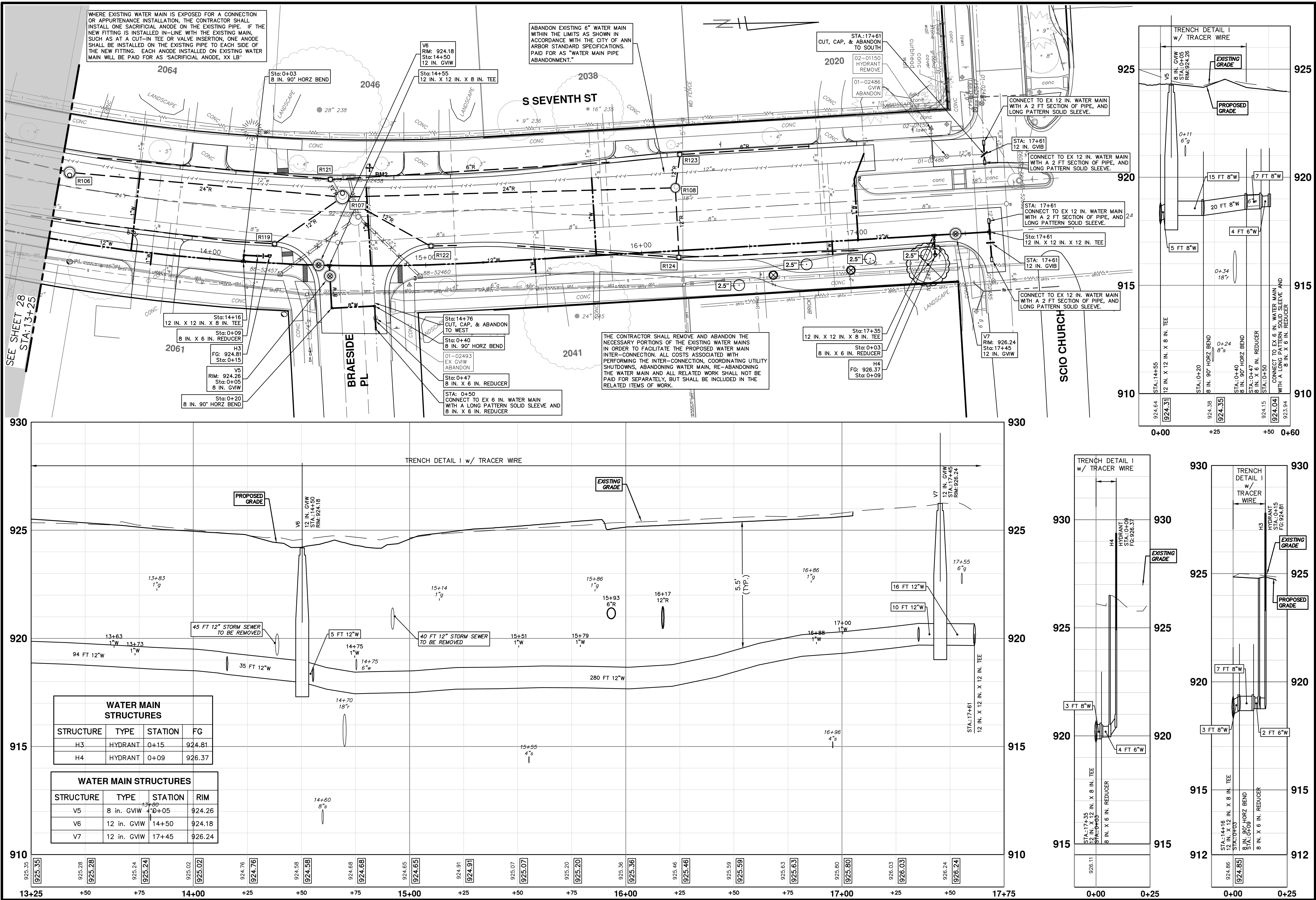
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00	1-30-24	A2D	TA	BID SET



**CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING**  
**S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS**  
 WATER MAIN - S SEVENTH STREET  
 STA. 9+25 - STA. 13+25

SCALE PLAN: 1" = 20'  
 PROFILE: 1" = 2'  
 SHEET No. 28 OF 92  
 DRAWING No. 2020031-28

R:\2020031 3 7th Street\Plan Production\2020031\Wat.dwg Dwg Created: 30-Jan-24 - \_a2 standard bw.stb - Plot Date: 14-Feb-24



WHERE EXISTING WATER MAIN IS EXPOSED FOR A CONNECTION OR APPURTENANCE INSTALLATION, THE CONTRACTOR SHALL INSTALL ONE SACRIFICIAL ANODE ON THE EXISTING PIPE. IF THE NEW FITTING IS INSTALLED IN-LINE WITH THE EXISTING MAIN, SUCH AS AT A CUT-IN TEE OR VALVE INSERTION, ONE ANODE SHALL BE INSTALLED ON THE EXISTING PIPE TO EACH SIDE OF THE NEW FITTING. EACH ANODE INSTALLED ON EXISTING WATER MAIN WILL BE PAID FOR AS "SACRIFICIAL ANODE, XX LB"

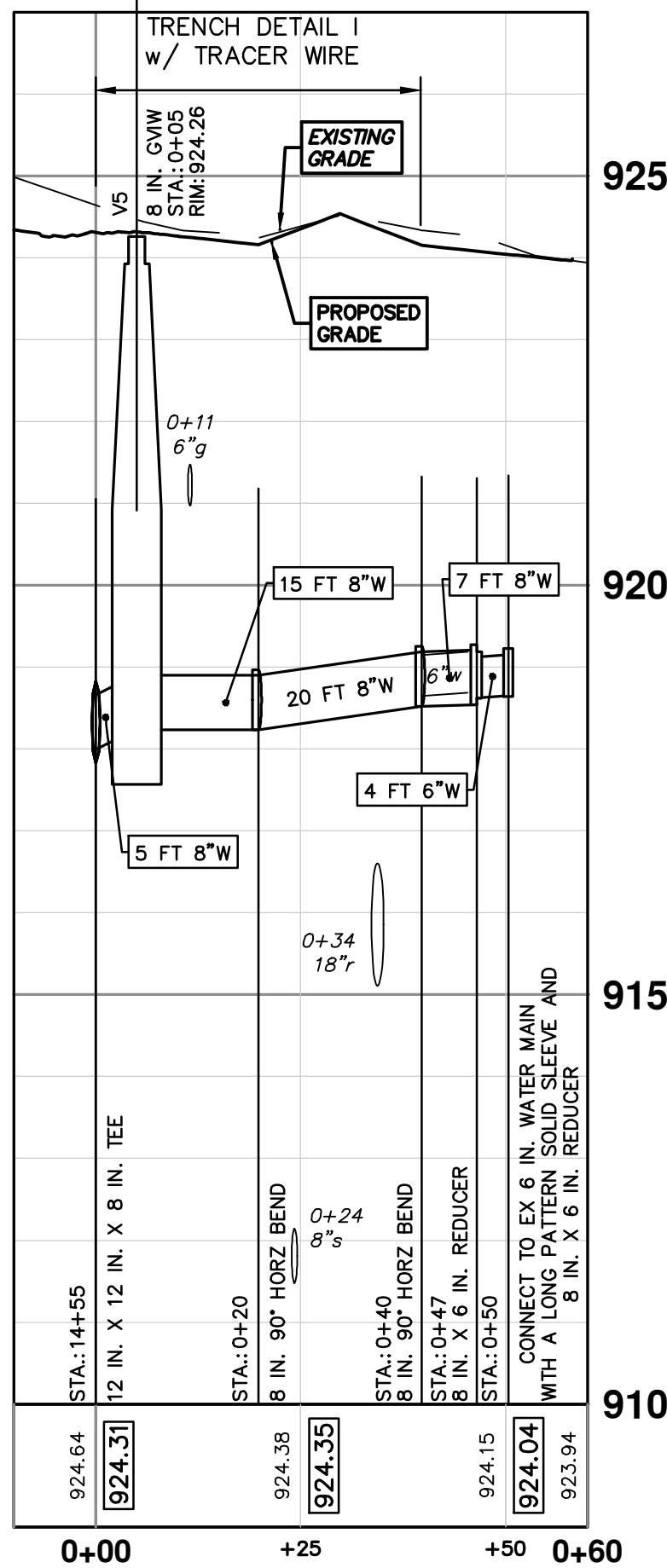
ABANDON EXISTING 6" WATER MAIN WITHIN THE LIMITS AS SHOWN IN ACCORDANCE WITH THE CITY OF ANN ARBOR STANDARD SPECIFICATIONS. PAID FOR AS "WATER MAIN PIPE ABANDONMENT."


THE CONTRACTOR SHALL REMOVE AND ABANDON THE NECESSARY PORTIONS OF THE EXISTING WATER MAINS IN ORDER TO FACILITATE THE PROPOSED WATER MAIN INTER-CONNECTION. ALL COSTS ASSOCIATED WITH PERFORMING THE INTER-CONNECTION, COORDINATING UTILITY SHUTDOWNS, ABANDONING WATER MAIN, RE-ABANDONING THE WATER MAIN AND ALL RELATED WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE RELATED ITEMS OF WORK.

WATER MAIN STRUCTURES			
STRUCTURE	TYPE	STATION	FG
H3	HYDRANT	0+15	924.81
H4	HYDRANT	0+09	926.37

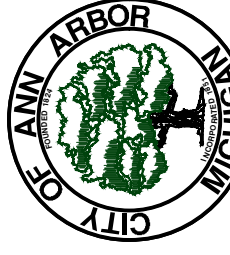
WATER MAIN STRUCTURES			
STRUCTURE	TYPE	STATION	RIM
V5	8 in. GVIW	0+05	924.26
V6	12 in. GVIW	14+50	924.18
V7	12 in. GVIW	17+45	926.24





Know what's below.  
Call before you dig.

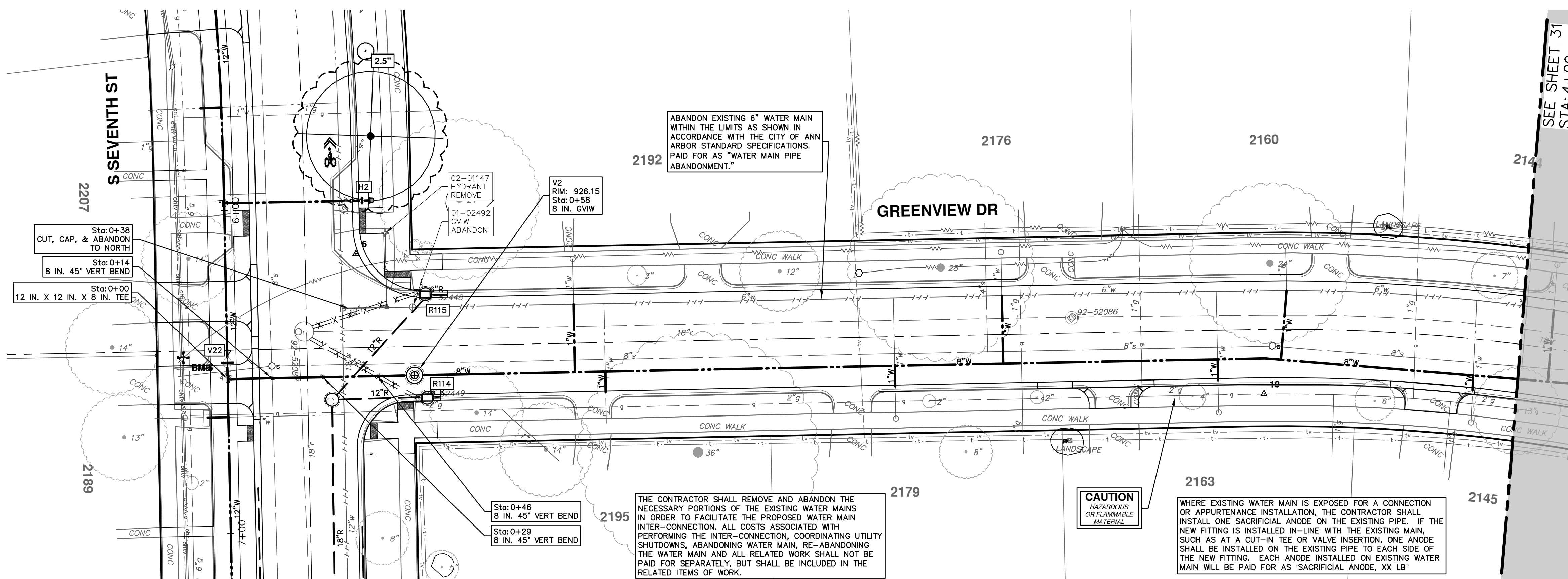
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		TA
		TA



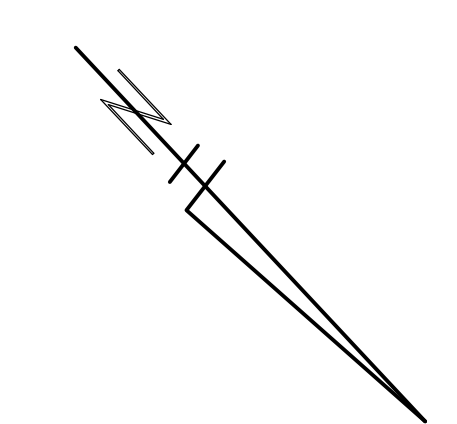
**CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING**  
**S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS**  
 WATER MAIN - S SEVENTH STREET  
 STA. 13+25 - STA. 17+50

DRAWING NO. 2020031-29  
 SHEET NO. 29 OF 92

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SEE SHEET 31  
STA. 4+00

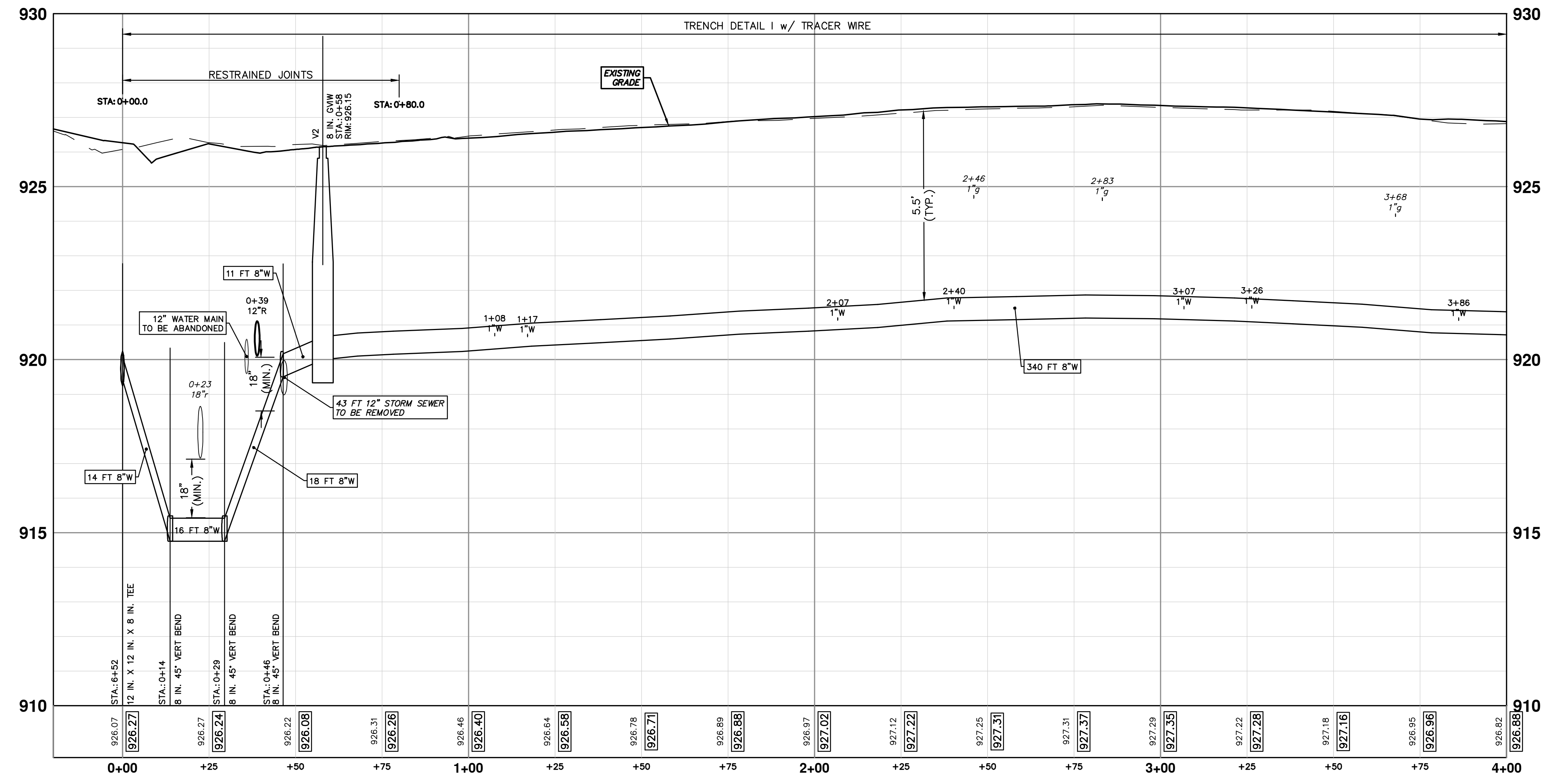


ABANDON EXISTING 6" WATER MAIN WITHIN THE LIMITS AS SHOWN IN ACCORDANCE WITH THE CITY OF ANN ARBOR STANDARD SPECIFICATIONS. PAID FOR AS "WATER MAIN PIPE ABANDONMENT."

THE CONTRACTOR SHALL REMOVE AND ABANDON THE NECESSARY PORTIONS OF THE EXISTING WATER MAINS IN ORDER TO FACILITATE THE PROPOSED WATER MAIN INTER-CONNECTION. ALL COSTS ASSOCIATED WITH PERFORMING THE INTER-CONNECTION, COORDINATING UTILITY SHUTDOWNS, ABANDONING WATER MAIN, RE-ABANDONING THE WATER MAIN AND ALL RELATED WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE RELATED ITEMS OF WORK.

**CAUTION**  
HAZARDOUS  
OR FLAMMABLE  
MATERIAL

WHERE EXISTING WATER MAIN IS EXPOSED FOR A CONNECTION OR APPURTENANCE INSTALLATION, THE CONTRACTOR SHALL INSTALL ONE SACRIFICIAL ANODE ON THE EXISTING PIPE. IF THE NEW FITTING IS INSTALLED IN-LINE WITH THE EXISTING MAIN, SUCH AS AT A CUT-IN TEE OR VALVE INSERTION, ONE ANODE SHALL BE INSTALLED ON THE EXISTING PIPE TO EACH SIDE OF THE NEW FITTING. EACH ANODE INSTALLED ON EXISTING WATER MAIN WILL BE PAID FOR AS "SACRIFICIAL ANODE, XX LB"



WATER MAIN STRUCTURES			
STRUCTURE	TYPE	STATION	RIM
V2	8 in. GVW	0+58	926.15

Know what's below.  
Call Before you dig.

01 ADDENDUM 1 2-14-24 A2D TA  
00 BID SET 1-30-24 DATE DRAWN CHECKED

**CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING**  
**S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS**  
 WATER MAIN - GREENVIEW DRIVE SOUTH  
 STA. 0+00 - STA. 4+00

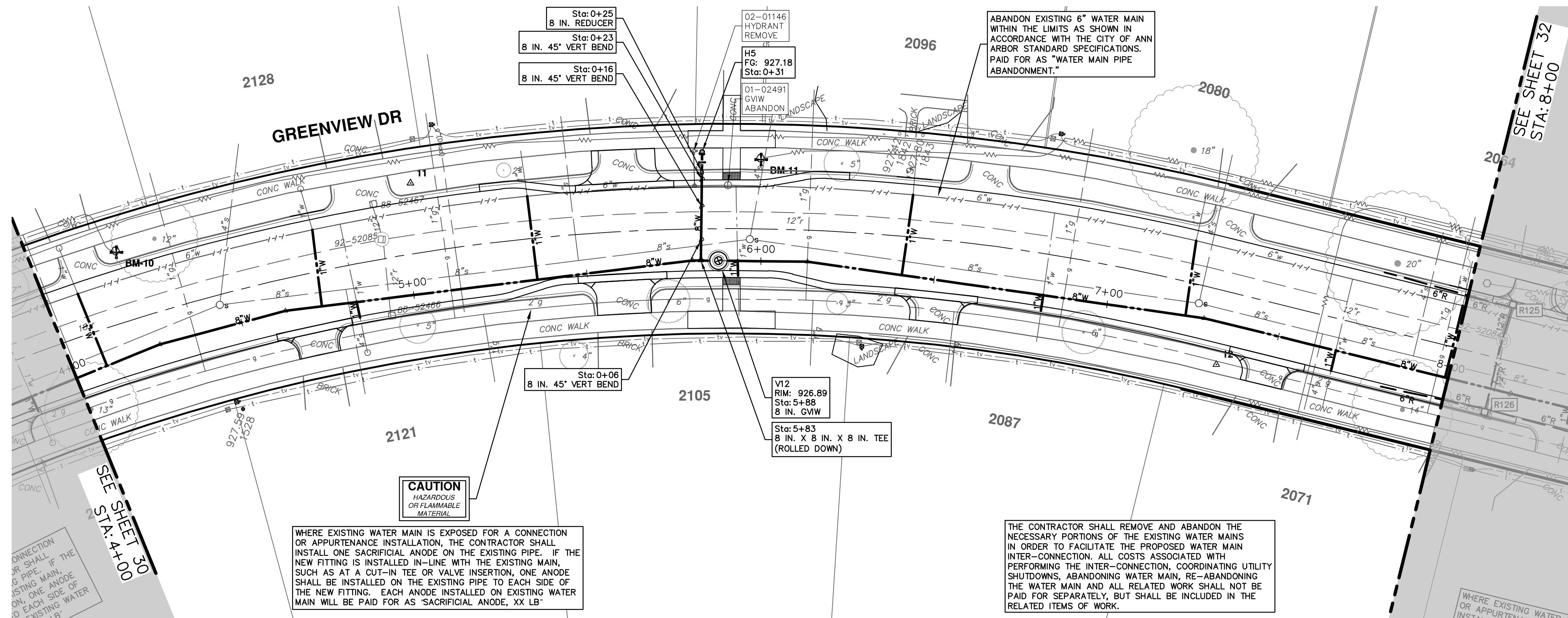
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PROFILE: 1" = 2'

DRAWING No. 2020031-30

SHEET No. 30 OF 92



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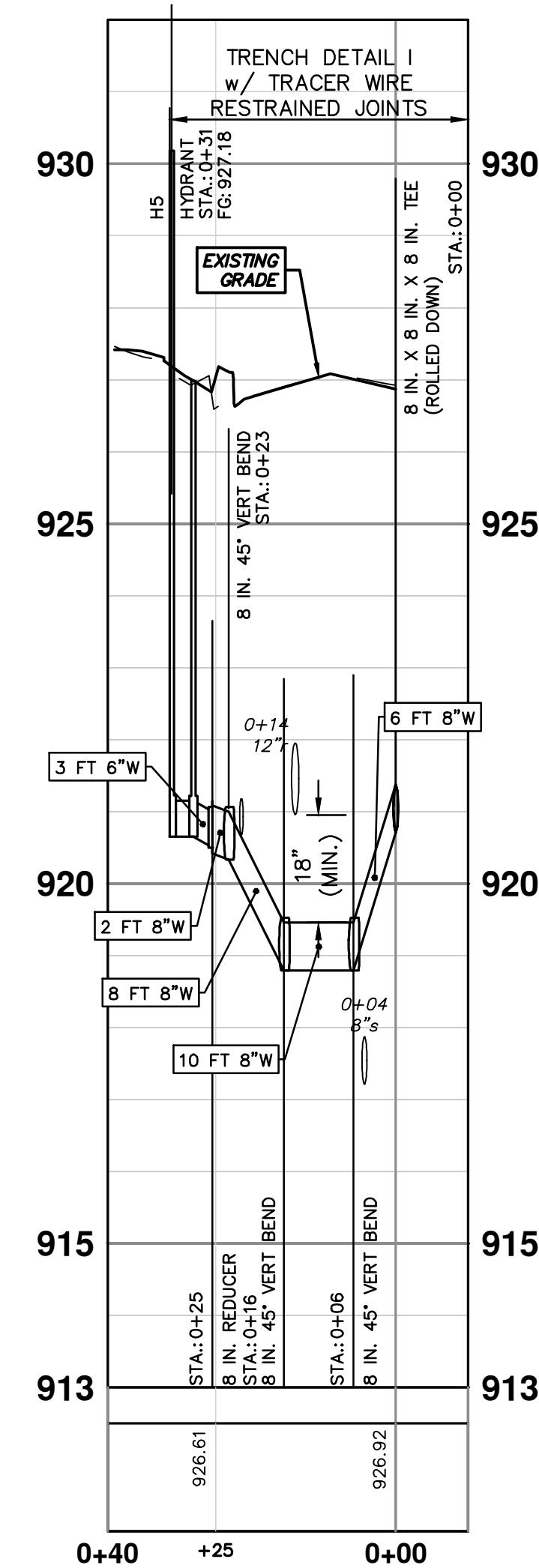
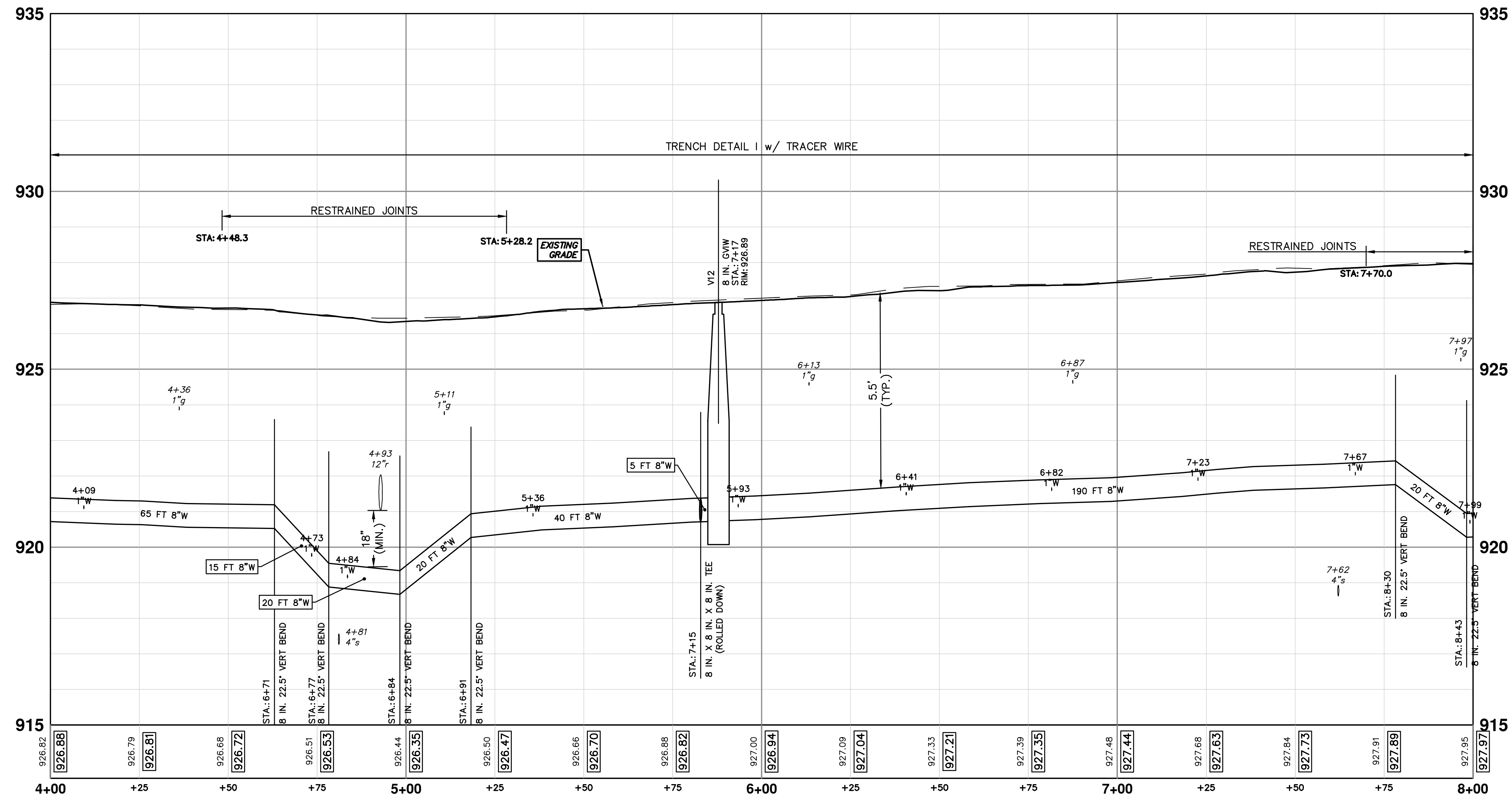
WATER MAIN STRUCTURES			
STRUCTURE	TYPE	STATION	FG
H5	HYDRANT	0+31	927.18


WATER MAIN STRUCTURES			
STRUCTURE	TYPE	STATION	RIM
V12	8 in. GVW	5+88	926.89

**CAUTION**  
HAZARDOUS  
OR FLAMMABLE  
MATERIAL

WHERE EXISTING WATER MAIN IS EXPOSED FOR A CONNECTION OR APPURTENANCE INSTALLATION, THE CONTRACTOR SHALL INSTALL ONE SACRIFICIAL ANODE ON THE EXISTING PIPE. IF THE NEW FITTING IS INSTALLED IN-LINE WITH THE EXISTING MAIN, SUCH AS AT A CUT-IN TEE OR VALVE INSERTION, ONE ANODE SHALL BE INSTALLED ON THE EXISTING PIPE TO EACH SIDE OF THE NEW FITTING. EACH ANODE INSTALLED ON EXISTING WATER MAIN WILL BE PAID FOR AS "SACRIFICIAL ANODE, XX LB"

THE CONTRACTOR SHALL REMOVE AND ABANDON THE NECESSARY PORTIONS OF THE EXISTING WATER MAINS IN ORDER TO FACILITATE THE PROPOSED WATER MAIN INTER-CONNECTION. ALL COSTS ASSOCIATED WITH PERFORMING THE INTER-CONNECTION, COORDINATING UTILITY SHUTDOWNS, ABANDONING WATER MAIN, RE-ABANDONING THE WATER MAIN AND ALL RELATED WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE RELATED ITEMS OF WORK.





Know what's below.  
Call before you dig.


REV.	DATE	DESCRIPTION
01	ADDENDUM 1	
00	BID SET	

**CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING**

**S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS**

WATER MAIN - GREENVIEW DRIVE SOUTH

STA. 4+00 - STA. 8+00

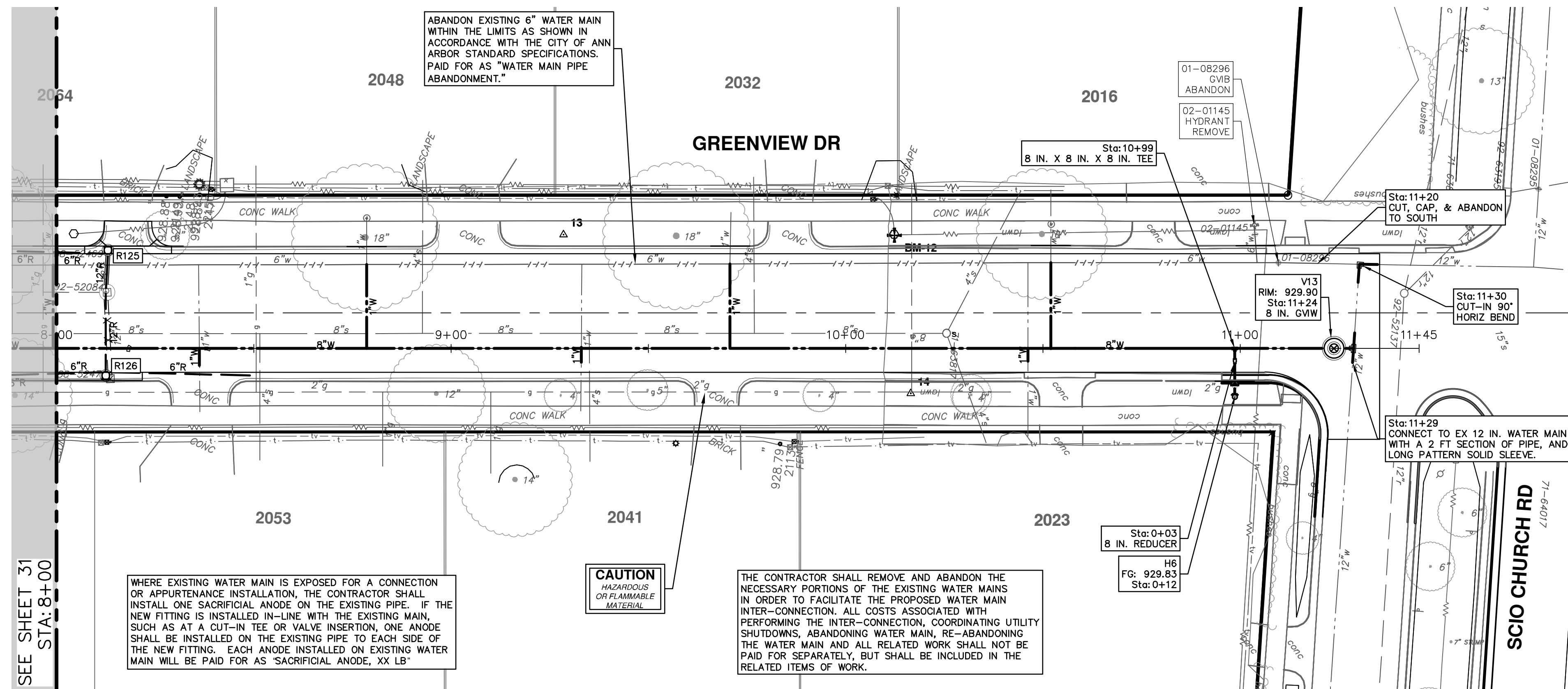


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PROFILE: 1" = 2'

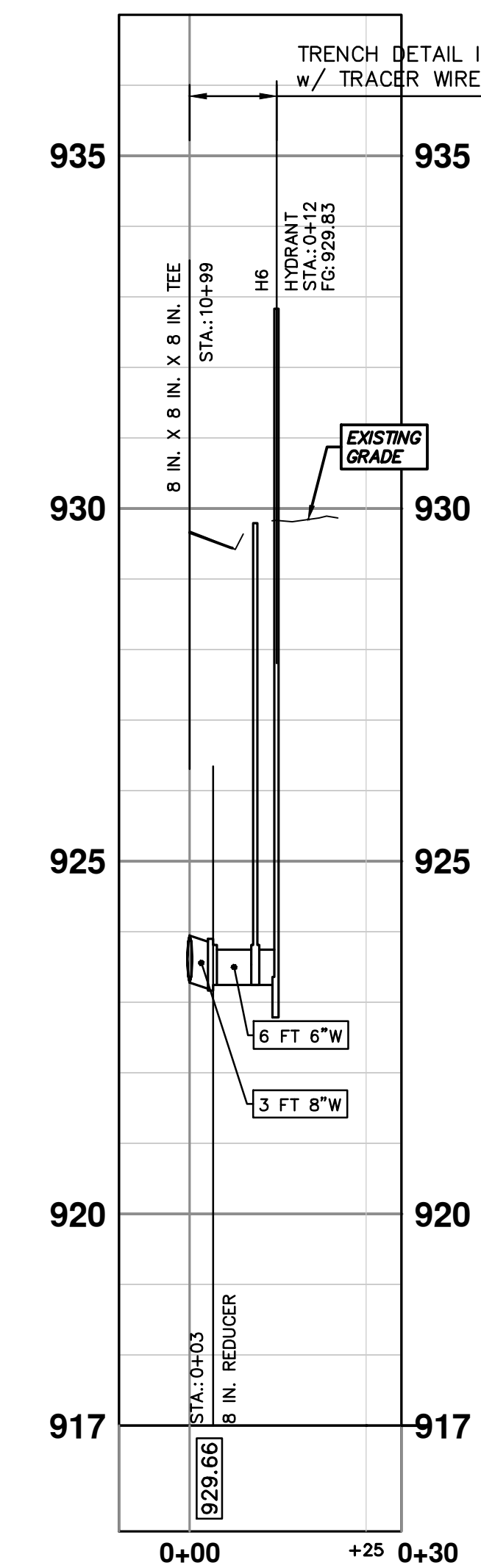
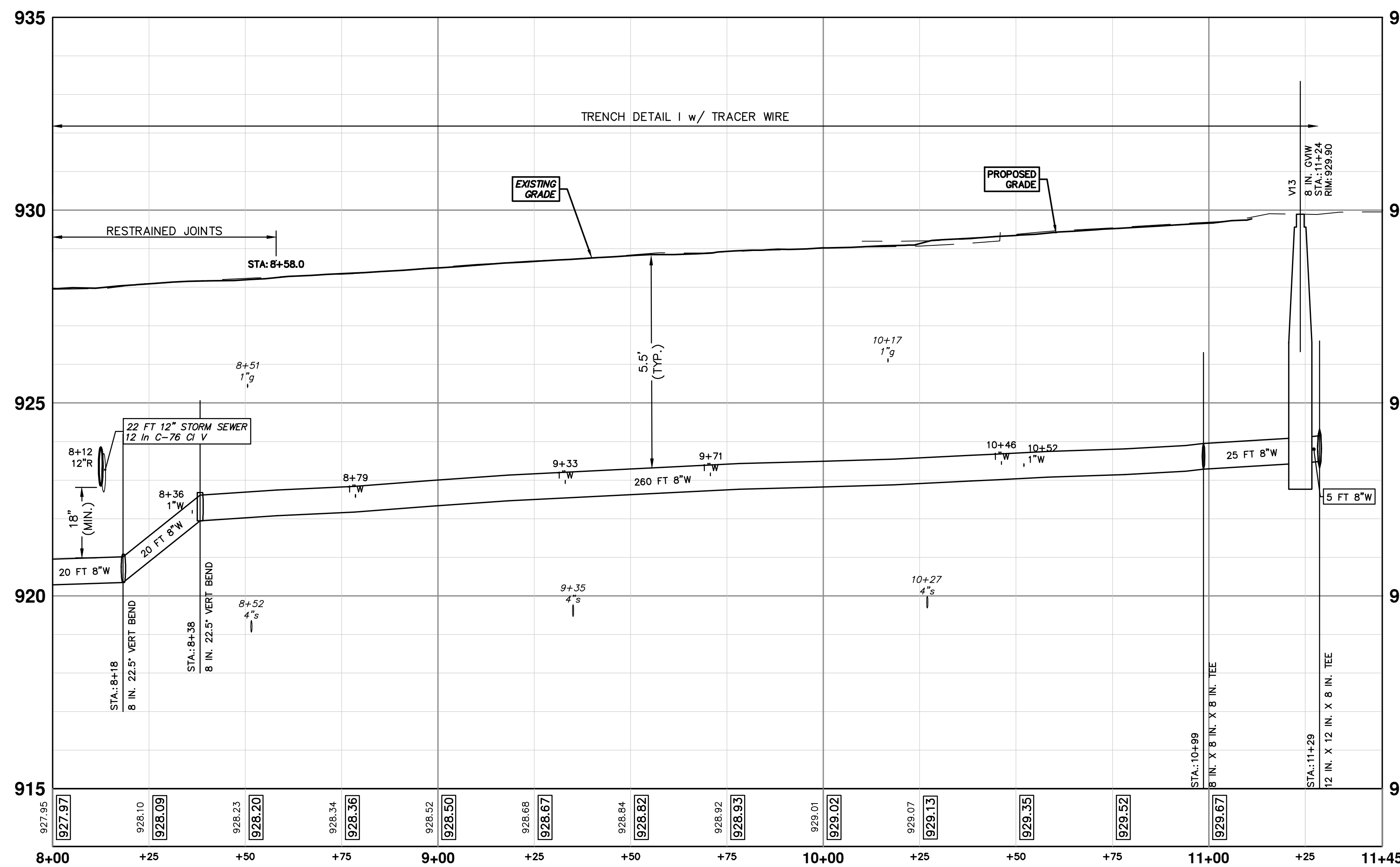
DRAWING NO. 2020031-31

SHEET NO. 31 OF 92



WATER MAIN STRUCTURES			
STRUCTURE	TYPE	STATION	FG
H6	HYDRANT	0+12	929.83

WATER MAIN STRUCTURES			
STRUCTURE	TYPE	STATION	RIM
V13	8 in. GVW	11+24	929.90



WHERE EXISTING WATER MAIN IS EXPOSED FOR A CONNECTION OR APPURTENANCE INSTALLATION, THE CONTRACTOR SHALL INSTALL ONE SACRIFICIAL ANODE ON THE EXISTING PIPE. IF THE NEW FITTING IS INSTALLED IN-LINE WITH THE EXISTING MAIN, SUCH AS AT A CUT-IN TEE OR VALVE INSERTION, ONE ANODE SHALL BE INSTALLED ON THE EXISTING PIPE TO EACH SIDE OF THE NEW FITTING. EACH ANODE INSTALLED ON EXISTING WATER MAIN WILL BE PAID FOR AS 'SACRIFICIAL ANODE, XX LB'

**CAUTION**  
HAZARDOUS OR FLAMMABLE MATERIAL

THE CONTRACTOR SHALL REMOVE AND ABANDON THE NECESSARY PORTIONS OF THE EXISTING WATER MAINS IN ORDER TO FACILITATE THE PROPOSED WATER MAIN INTER-CONNECTION. ALL COSTS ASSOCIATED WITH PERFORMING THE INTER-CONNECTION, COORDINATING UTILITY SHUTDOWNS, ABANDONING WATER MAIN, RE-ABANDONING THE WATER MAIN AND ALL RELATED WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE RELATED ITEMS OF WORK.

**811**  
Know what's below. Call before you dig.

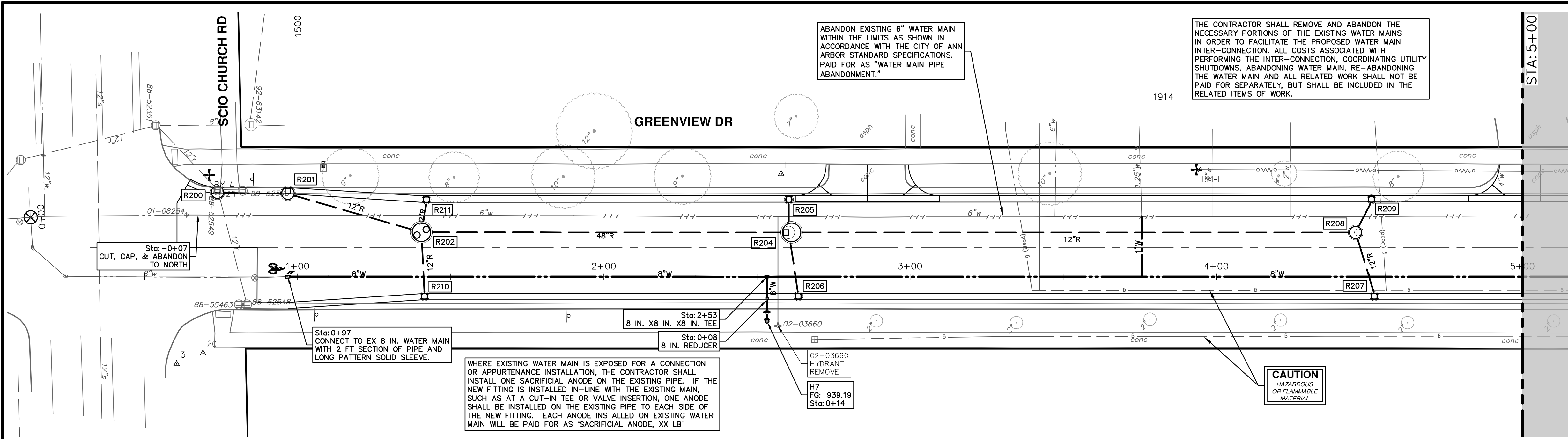
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01	2-14-24	ADDENDUM 1
00	1-30-24	BID SET

**CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING**  
**S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS**  
 WATER MAIN - GREENVIEW DRIVE SOUTH  
 STA. 8+00 - STA. 11+28

SCALE PLAN: 1" = 20'  
 PROFILE: 1" = 2'

DRAWING No. **2020031-32**  
 SHEET No. **32 OF 92**

R:\2023002\_Greenview\Plan Production\2023002Watr.dwg Dwg Created: 30-Jan-24 - \_a2\_standard\_bw.stb - Plot Date: 14-Feb-24

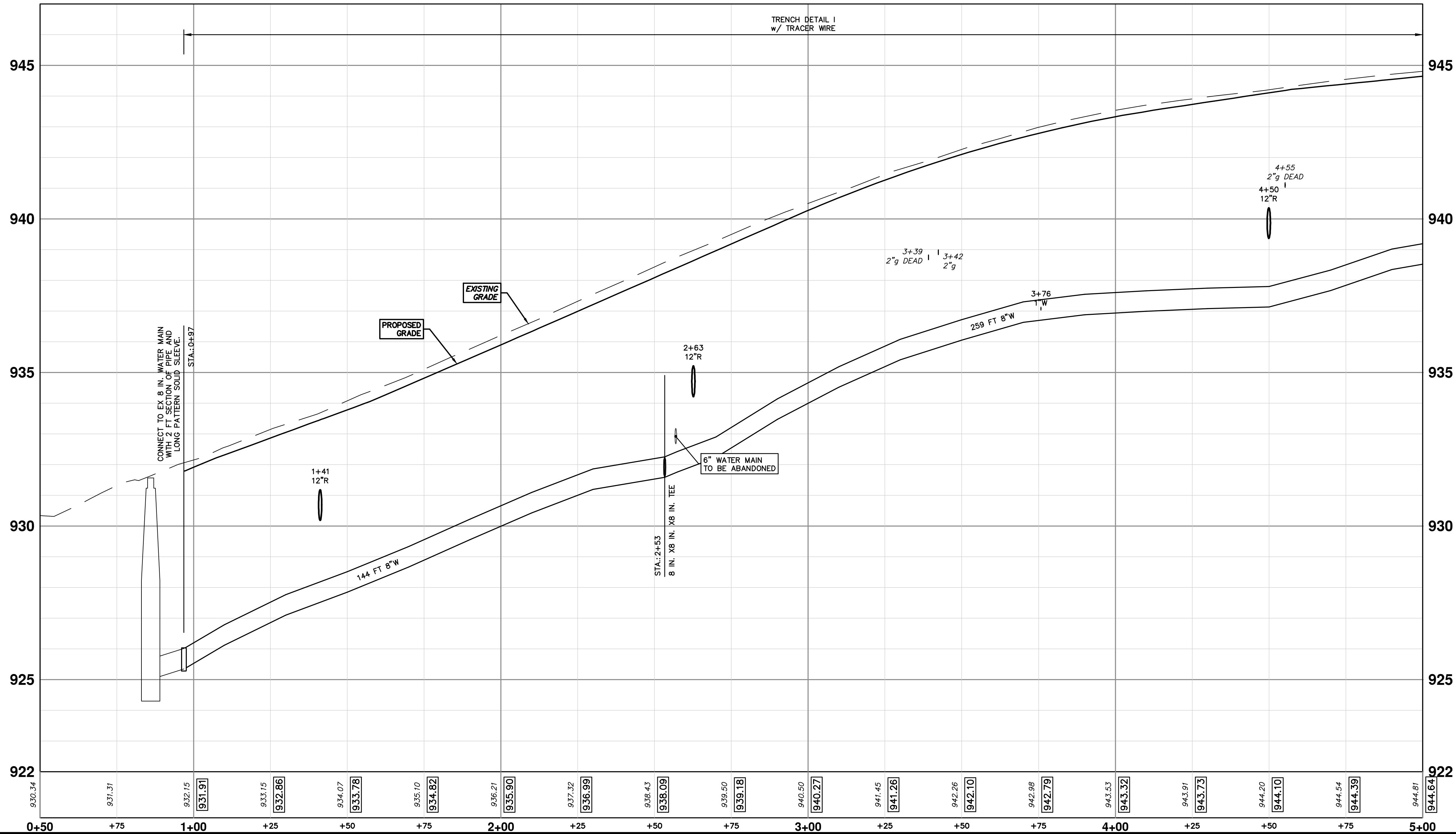


ABANDON EXISTING 6\"/>

THE CONTRACTOR SHALL REMOVE AND ABANDON THE NECESSARY PORTIONS OF THE EXISTING WATER MAINS IN ORDER TO FACILITATE THE PROPOSED WATER MAIN INTER-CONNECTION. ALL COSTS ASSOCIATED WITH PERFORMING THE INTER-CONNECTION, COORDINATING UTILITY SHUTDOWNS, ABANDONING WATER MAIN, RE-ABANDONING THE WATER MAIN AND ALL RELATED WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE RELATED ITEMS OF WORK.

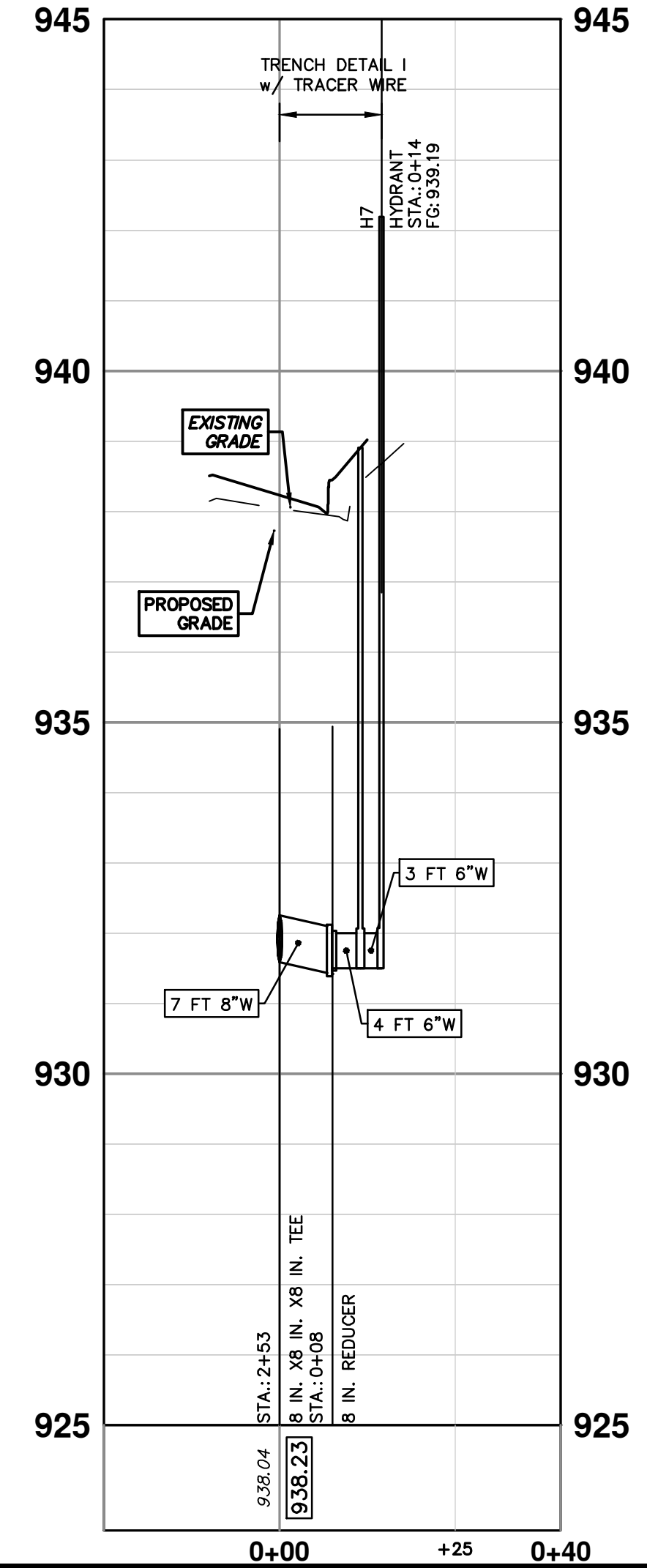
WHERE EXISTING WATER MAIN IS EXPOSED FOR A CONNECTION OR APPURTENANCE INSTALLATION, THE CONTRACTOR SHALL INSTALL ONE SACRIFICIAL ANODE ON THE EXISTING PIPE. IF THE NEW FITTING IS INSTALLED IN-LINE WITH THE EXISTING MAIN, SUCH AS AT A CUT-IN TEE OR VALVE INSERTION, ONE ANODE SHALL BE INSTALLED ON THE EXISTING PIPE TO EACH SIDE OF THE NEW FITTING. EACH ANODE INSTALLED ON EXISTING WATER MAIN WILL BE PAID FOR AS "SACRIFICIAL ANODE, XX LB"

**CAUTION**  
HAZARDOUS  
OR FLAMMABLE  
MATERIAL



TRENCH DETAIL I  
w/ TRACER WIRE

WATER MAIN STRUCTURES			
STRUCTURE	TYPE	STATION	FG
H7	HYDRANT	0+14	939.19



REV.	DATE	DRAWN	CHECKED	DESCRIPTION
01	2-14-24	A2D	TA	ADDENDUM 1
00	1-30-24	A2D	TA	BID SET

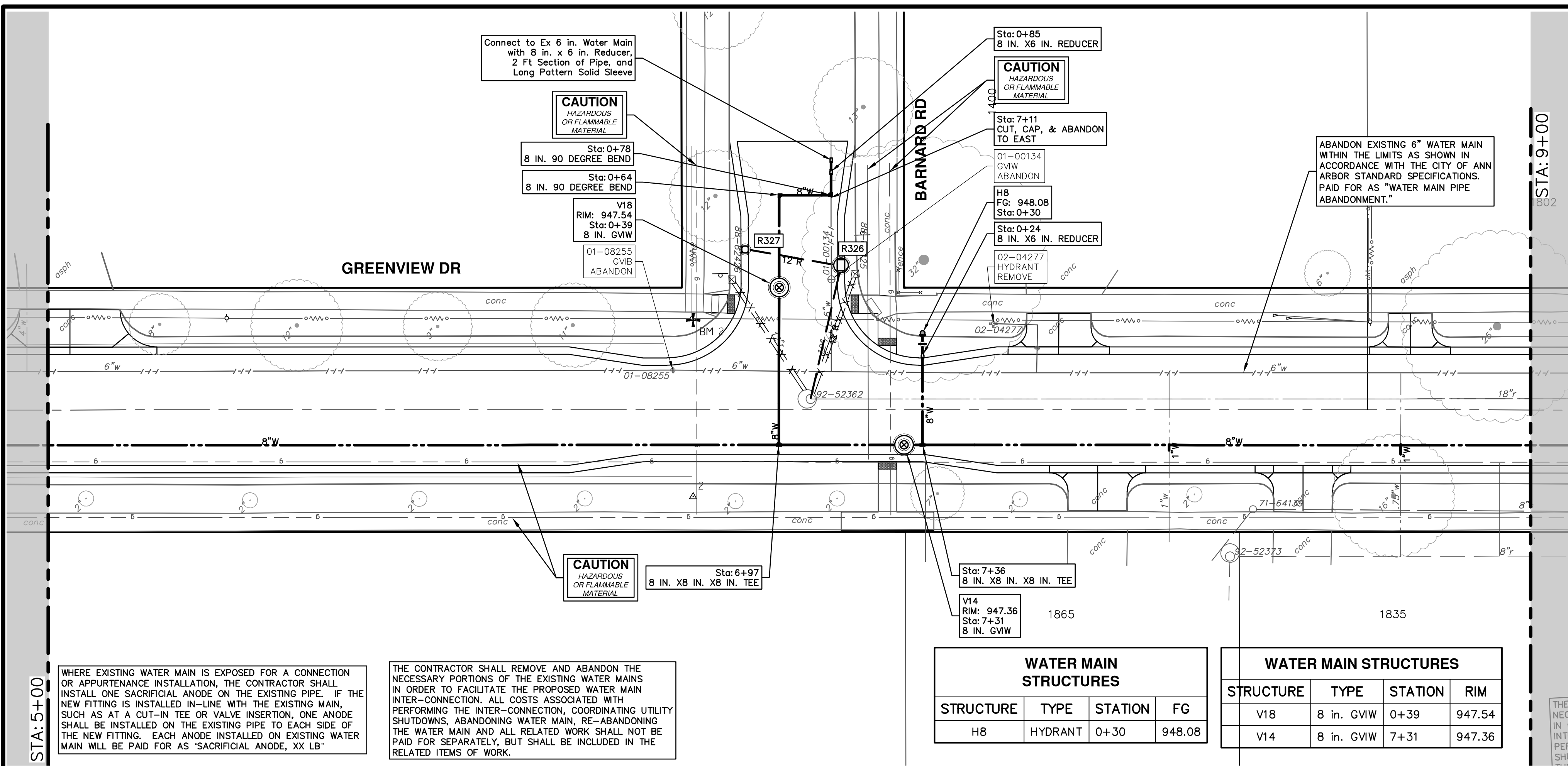
CITY OF ANN ARBOR  
PUBLIC SERVICES  
301 EAST HURON STREET  
PO BOX 8647  
ANN ARBOR MI 48106-8647  
www.a2gov.org



CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING  
S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS  
WATER MAIN - GREENVIEW DRIVE NORTH  
STA. 0+97 - STA. 5+00

SHEET No. 33 OF 92  
SCALE PLAN: 1" = 20'  
PROFILE: 1" = 2'  
DRAWING No. 2020031-33

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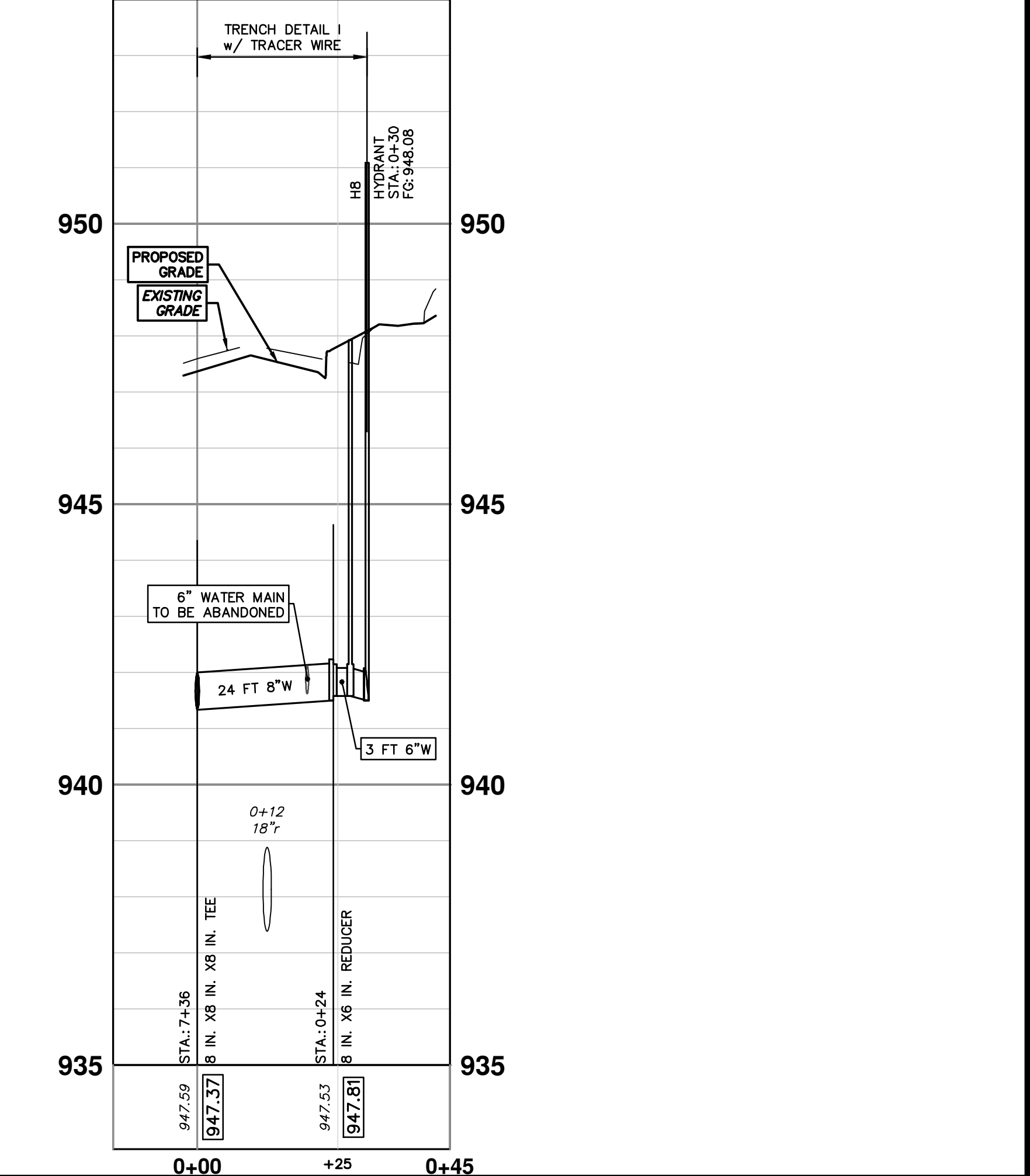
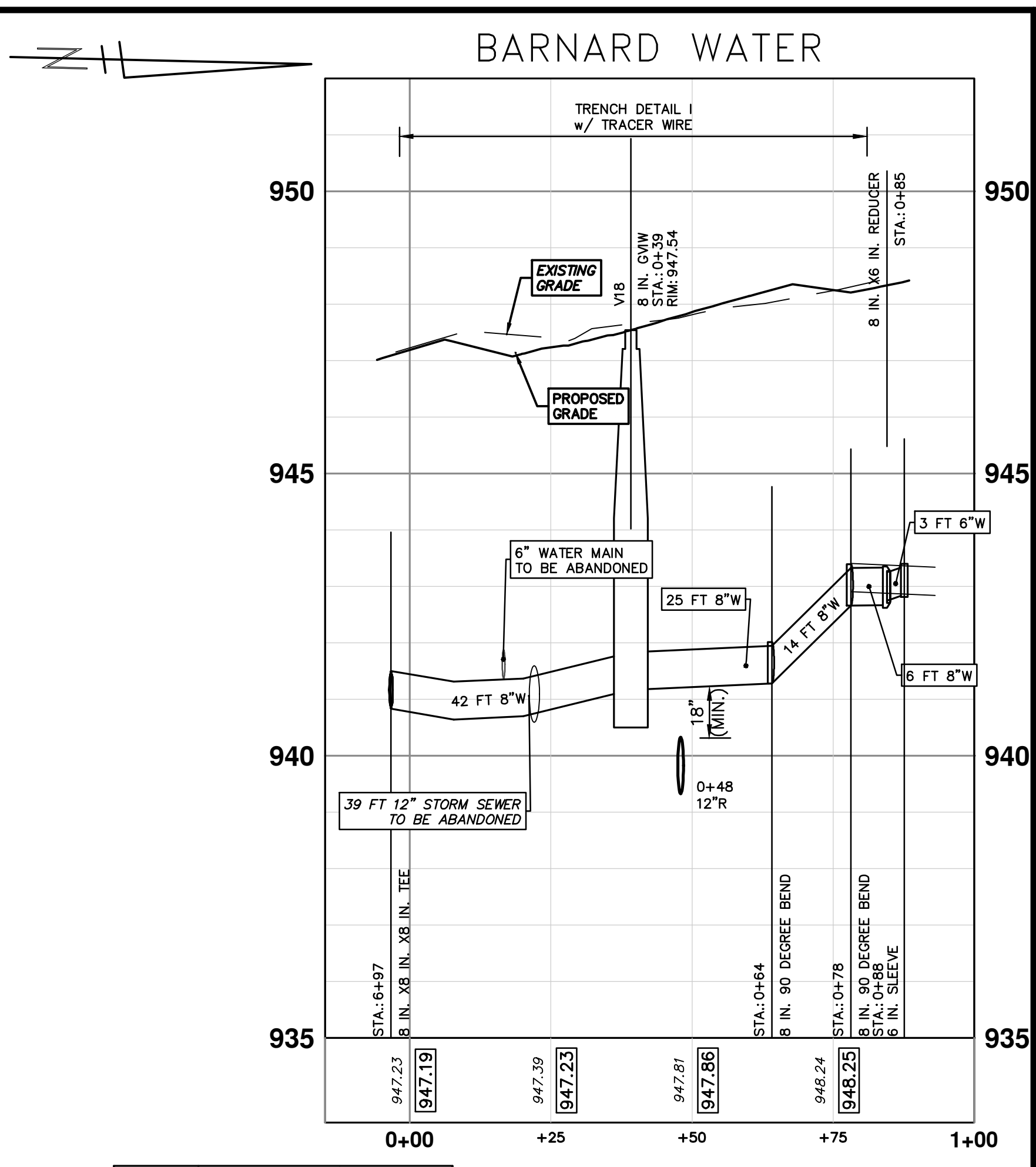
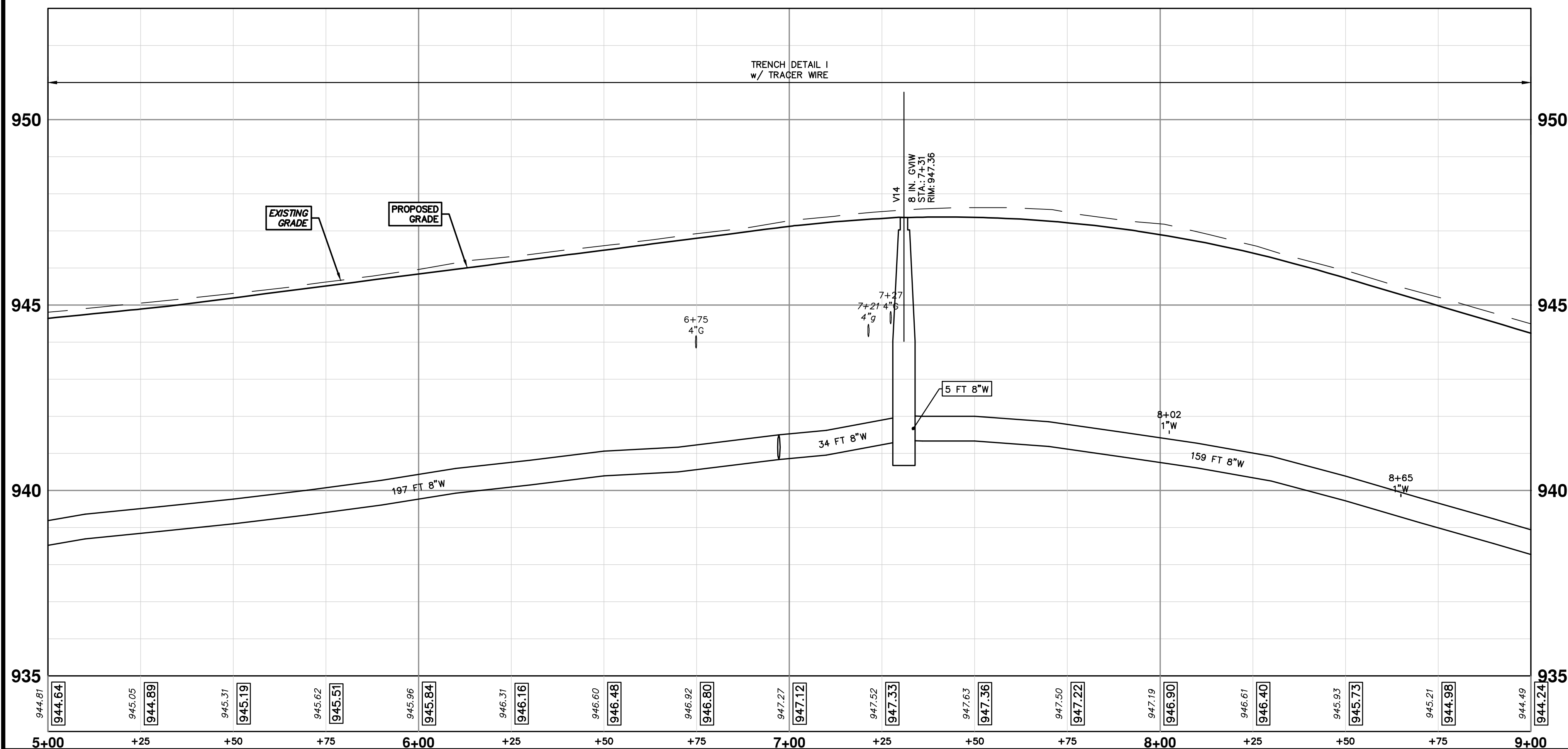



WHERE EXISTING WATER MAIN IS EXPOSED FOR A CONNECTION OR APPURTENANCE INSTALLATION, THE CONTRACTOR SHALL INSTALL ONE SACRIFICIAL ANODE ON THE EXISTING PIPE. IF THE NEW FITTING IS INSTALLED IN-LINE WITH THE EXISTING MAIN, SUCH AS AT A CUT-IN TEE OR VALVE INSERTION, ONE ANODE SHALL BE INSTALLED ON THE EXISTING PIPE TO EACH SIDE OF THE NEW FITTING. EACH ANODE INSTALLED ON EXISTING WATER MAIN WILL BE PAID FOR AS "SACRIFICIAL ANODE, XX LB"

THE CONTRACTOR SHALL REMOVE AND ABANDON THE NECESSARY PORTIONS OF THE EXISTING WATER MAINS IN ORDER TO FACILITATE THE PROPOSED WATER MAIN INTER-CONNECTION. ALL COSTS ASSOCIATED WITH PERFORMING THE INTER-CONNECTION, COORDINATING UTILITY SHUTDOWNS, ABANDONING WATER MAIN, RE-ABANDONING THE WATER MAIN AND ALL RELATED WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE RELATED ITEMS OF WORK.

WATER MAIN STRUCTURES			
STRUCTURE	TYPE	STATION	FG
H8	HYDRANT	0+30	948.08

WATER MAIN STRUCTURES			
STRUCTURE	TYPE	STATION	RIM
V18	8 in. GWV	0+39	947.54
V14	8 in. GWV	7+31	947.36





Know what's below.  
Call Before you dig.

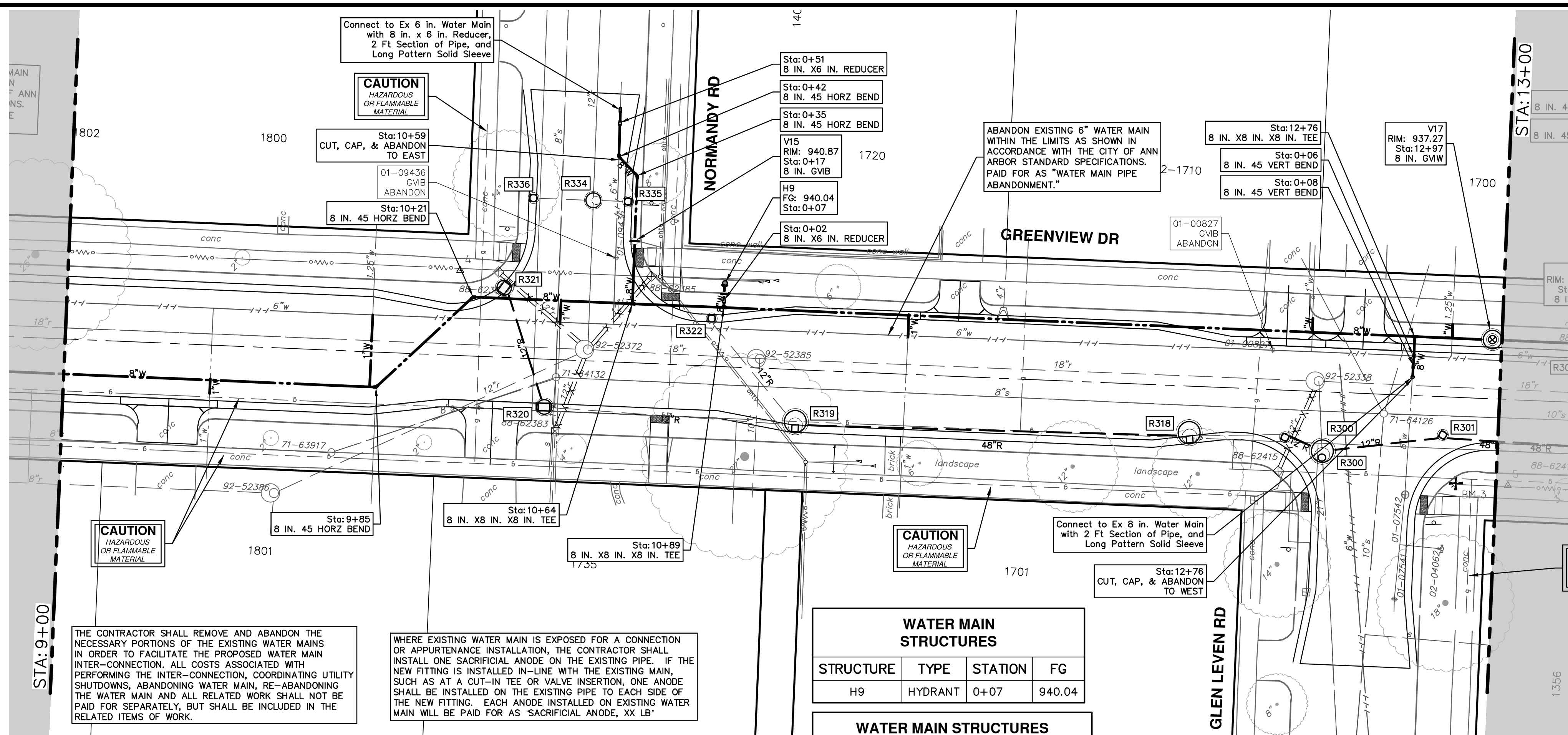
REV.	DATE	DESCRIPTION
01	2-14-24	ADDENDUM 1
00	1-30-24	BID SET
		DRAWN
		CHECKED



**CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING**  
**S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS**  
 WATER MAIN - GREENVIEW DRIVE NORTH  
 STA. 5+00 - STA. 9+00

SCALE PLAN: 1" = 20'  
 PROFILE: 1" = 2'  
 SHEET No. 34 OF 92  
 DRAWING No. 2020031-34

R:\2023002\_Greenview\_Plan\_Production\2023002Watr.dwg Dwg Created: 30-Jan-24 - \_a2\_standard\_bw.stb - Plot Date: 14-Feb-24



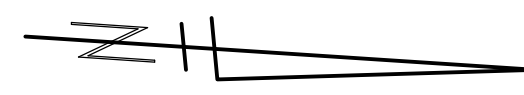
**WATER MAIN STRUCTURES**

STRUCTURE	TYPE	STATION	FG
H9	HYDRANT	0+07	940.04

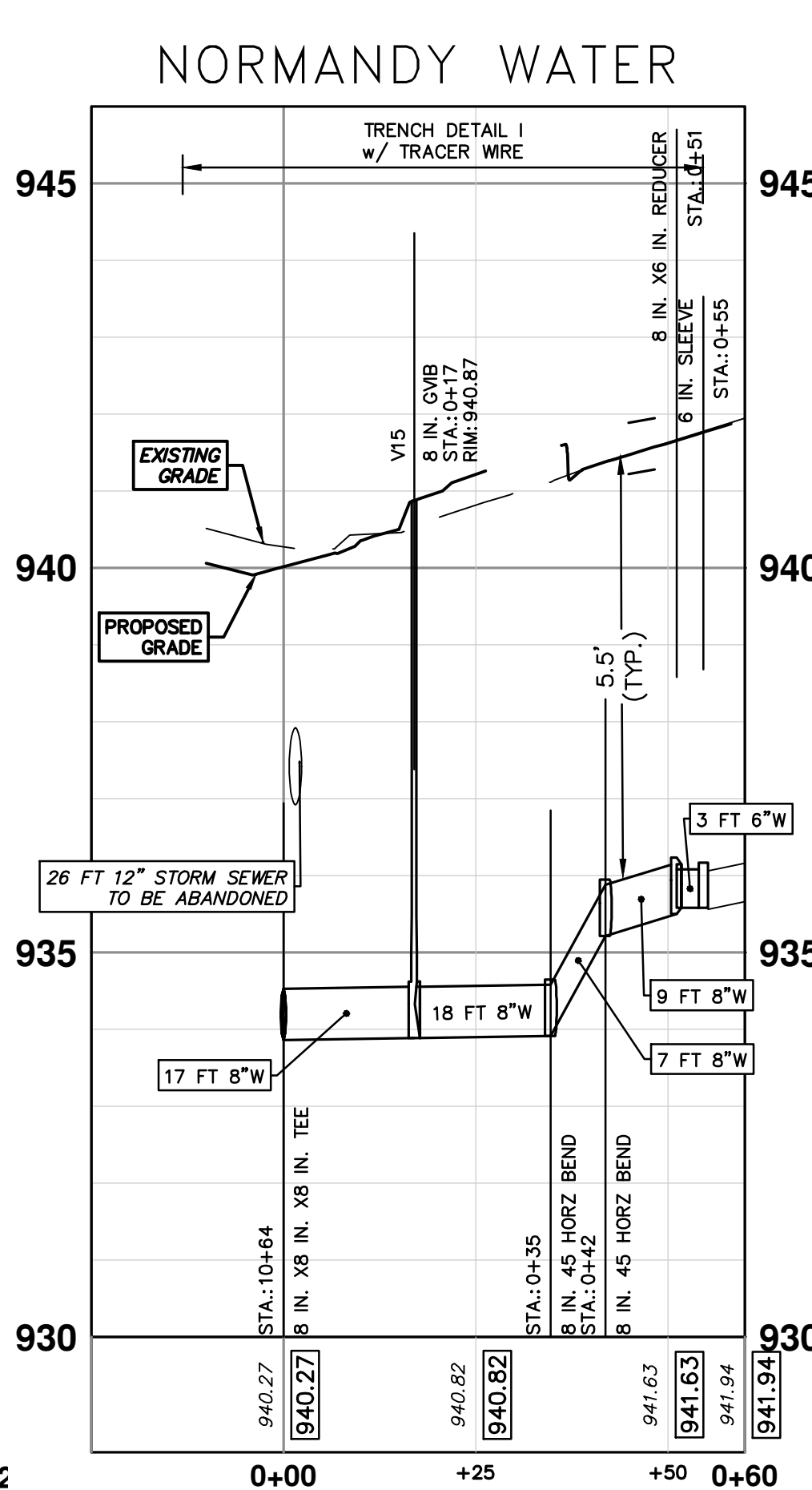
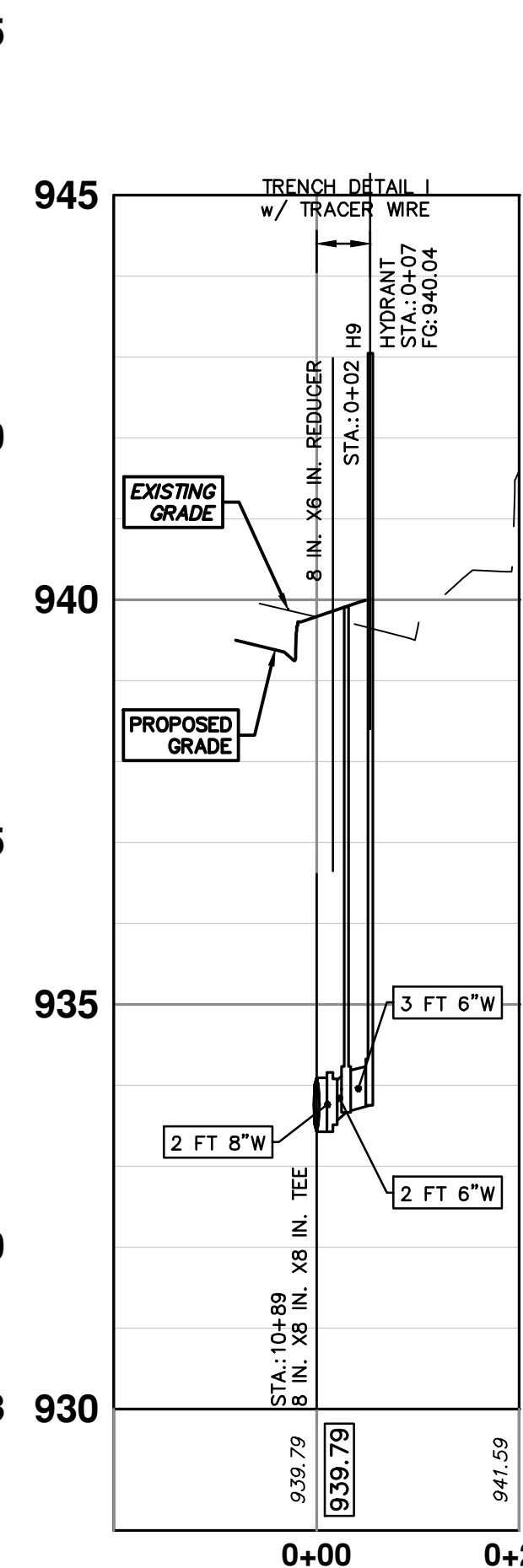
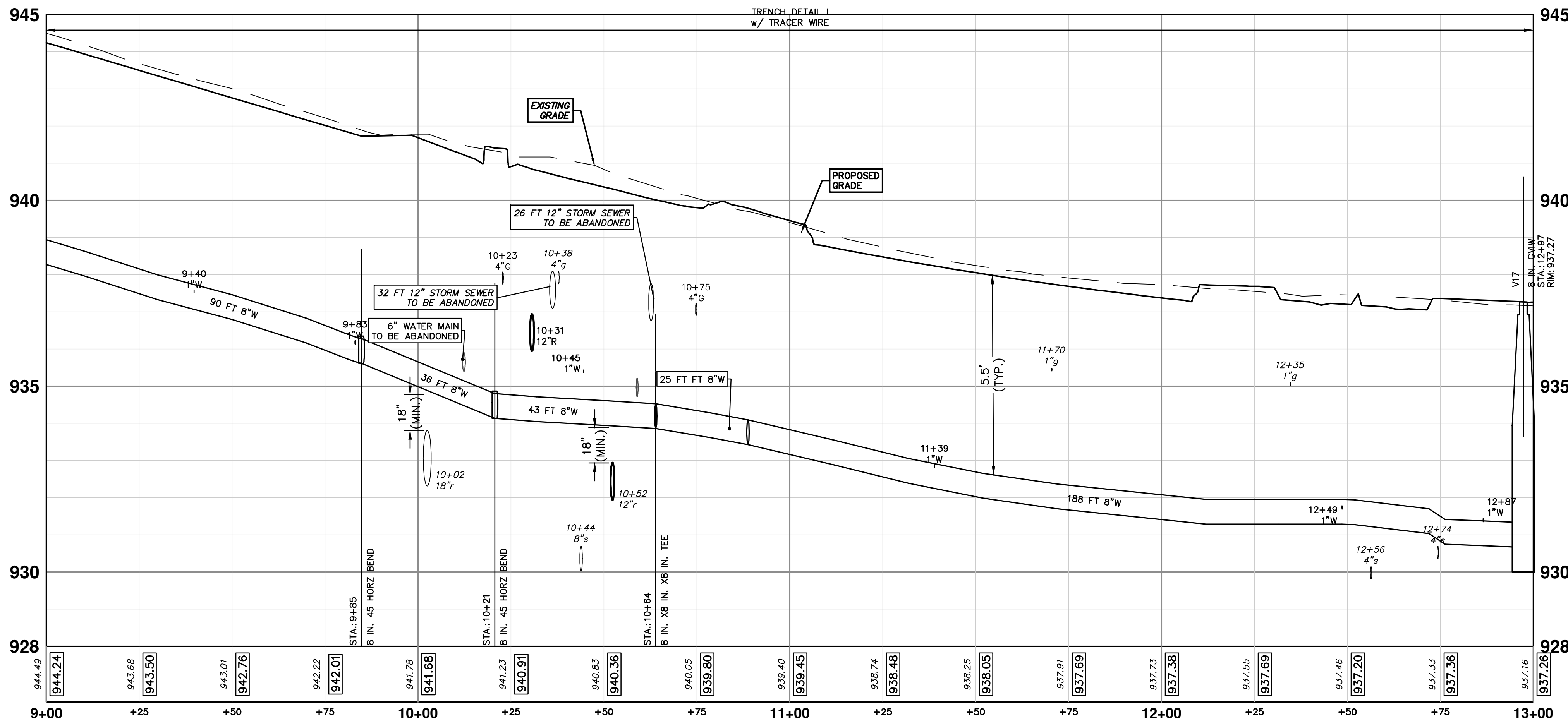
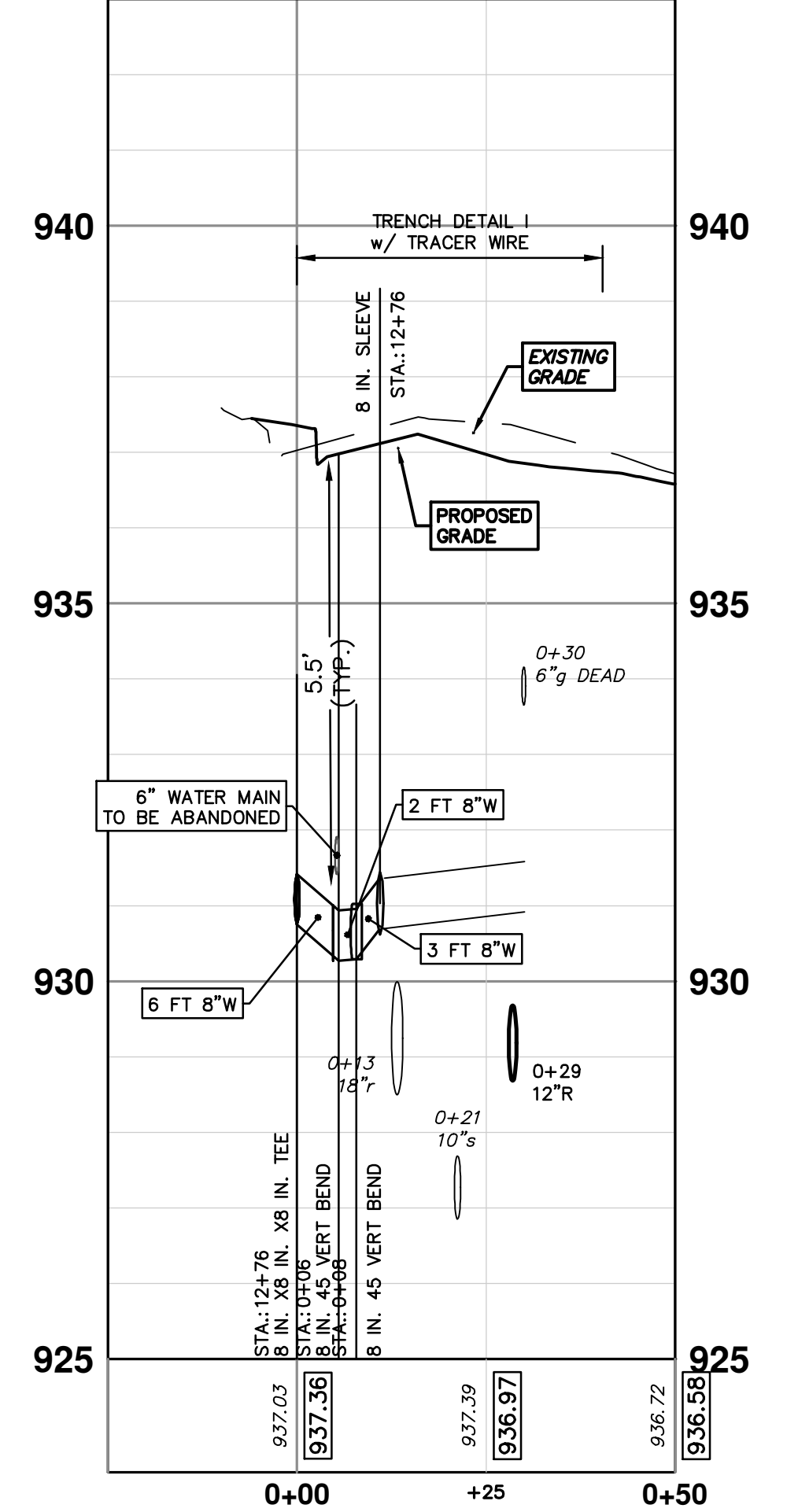
  

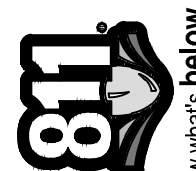
**WATER MAIN STRUCTURES**

STRUCTURE	TYPE	STATION	RIM
V15	8 in. GVB	0+17	940.87
V17	8 in. GVW	12+97	937.27




**GLEN LEVEN WATER**





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REV.	DATE	DESCRIPTION
01	2-14-24	A2D
00	1-30-24	A2D



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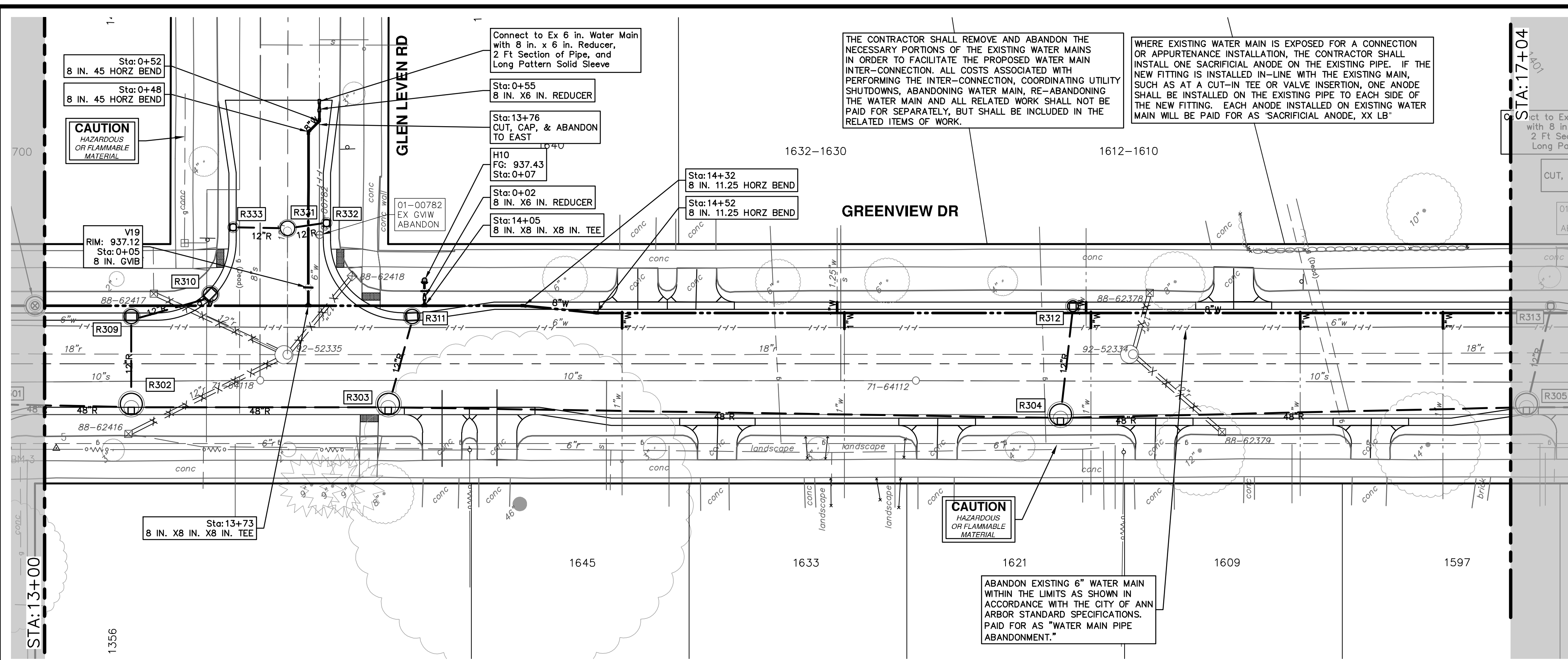
**S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS**  
 WATER MAIN - GREENVIEW DRIVE NORTH

STA. 9+00 - STA. 13+00

SCALE PLAN: 1" = 20'  
 PROFILE: 1" = 2'

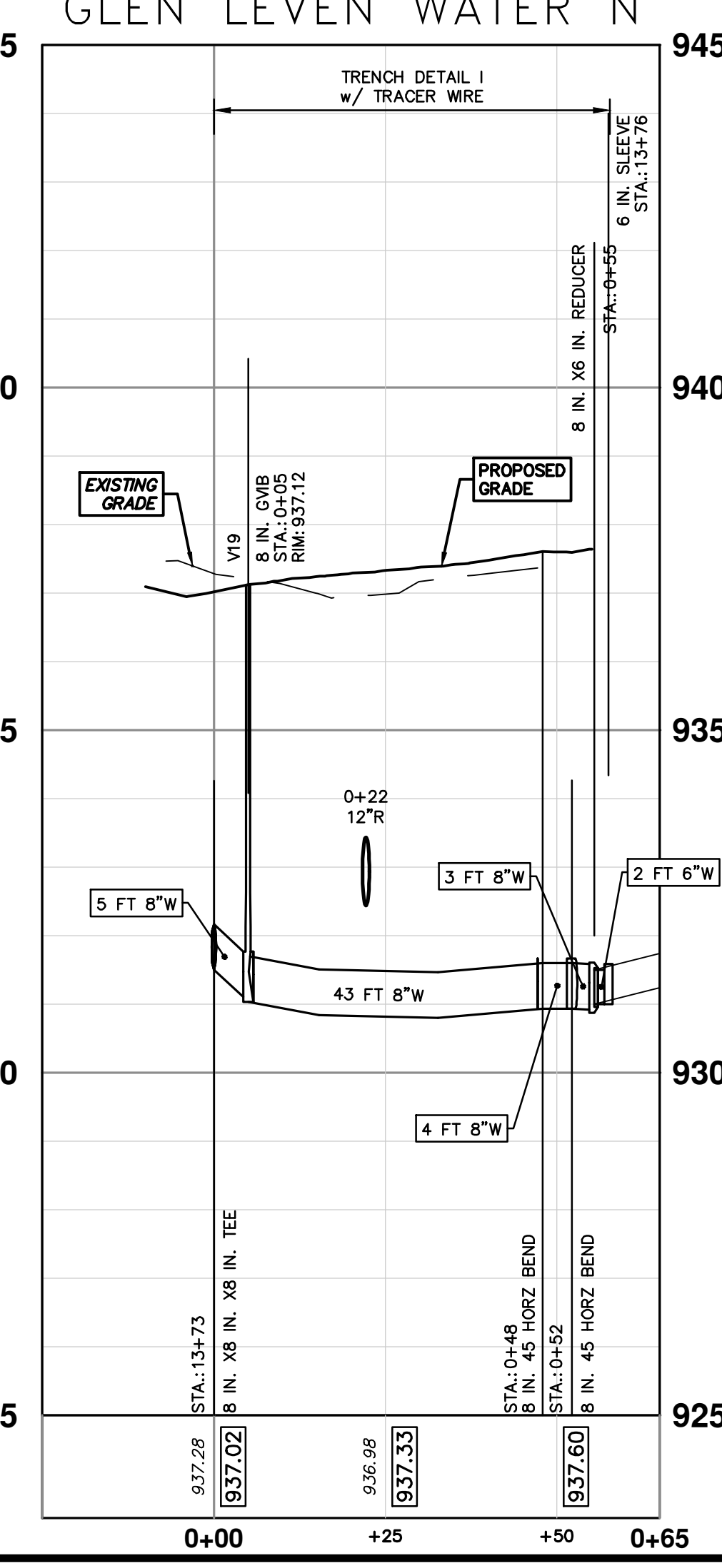
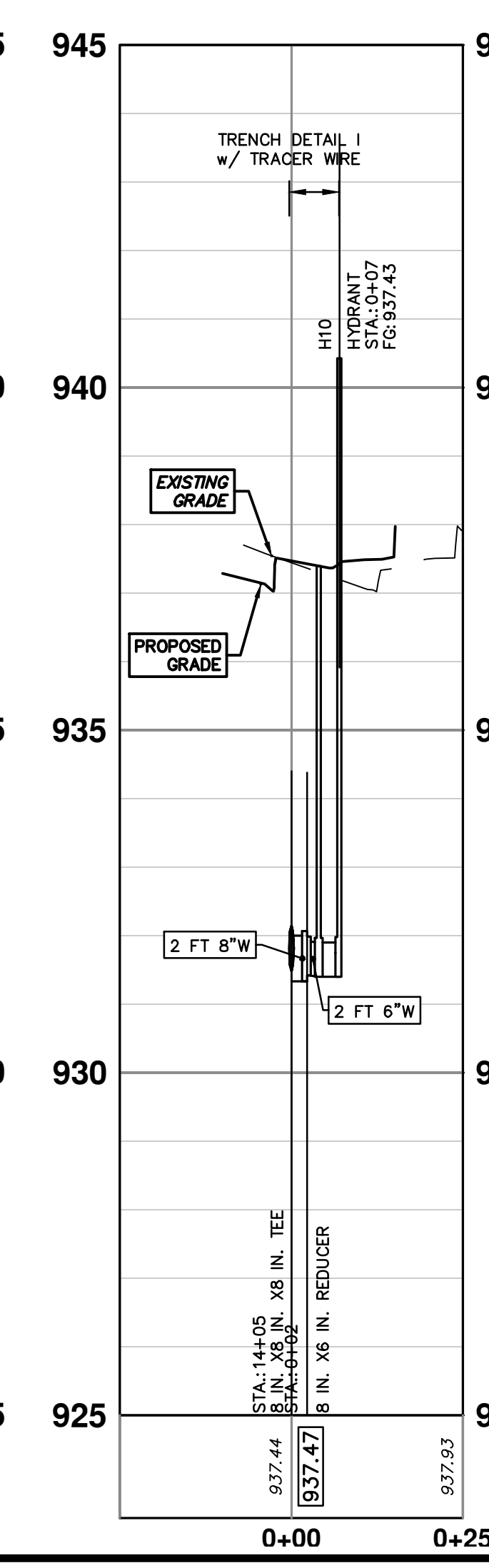
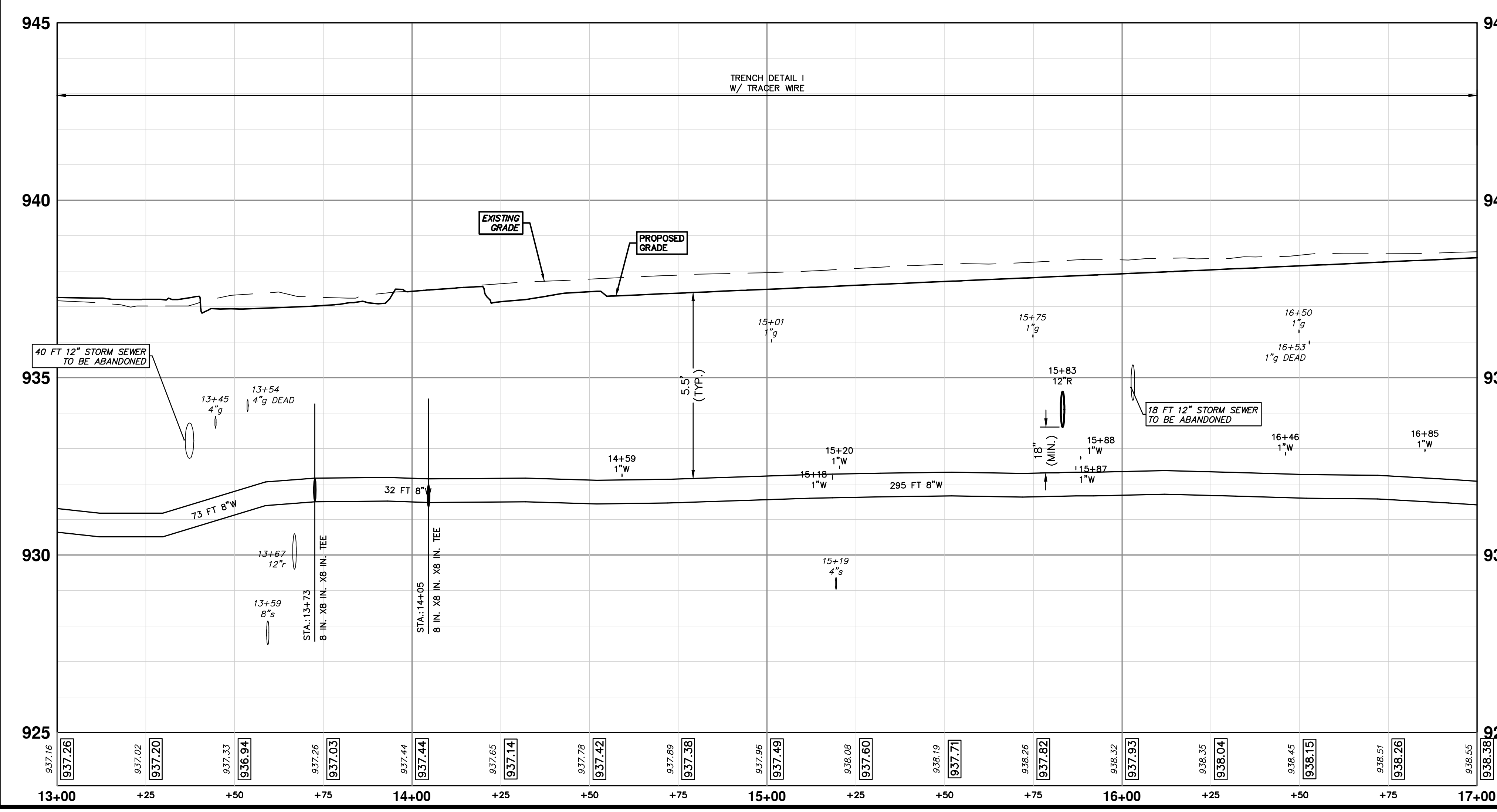
DRAWING NO. 2020031-35  
 SHEET NO. 35 OF 92

R:\2023002 Greenview\Plan Production\2023002Watr.dwg Dwg Created: 30-Jan-24 - \_a2 standard bw.stb - Plot Date: 14-Feb-24



WATER MAIN STRUCTURES			
STRUCTURE	TYPE	STATION	FG
H10	HYDRANT	0+07	937.43

WATER MAIN STRUCTURES			
STRUCTURE	TYPE	STATION	RIM
V19	8 in. GVB	0+05	937.12



**811**  
Know what's below.  
Call before you dig.

REV.	DATE	DESCRIPTION
01	2-14-24	ADDENDUM 1
00	1-30-24	BID SET

**CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING**

**S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS**

WATER MAIN - GREENVIEW DRIVE NORTH

STA. 13+00 - STA. 17+00

SCALE PLAN: 1" = 20'

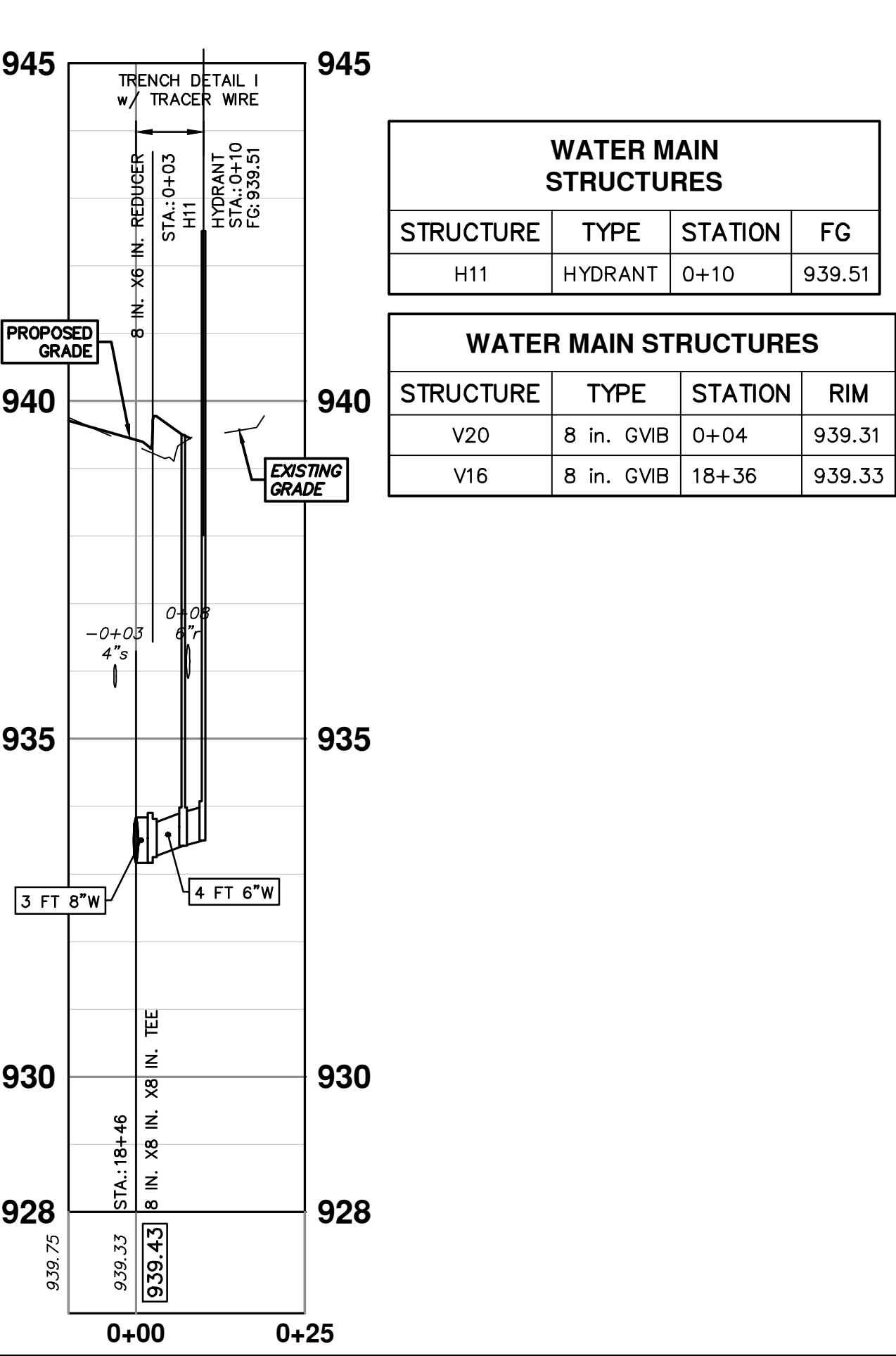
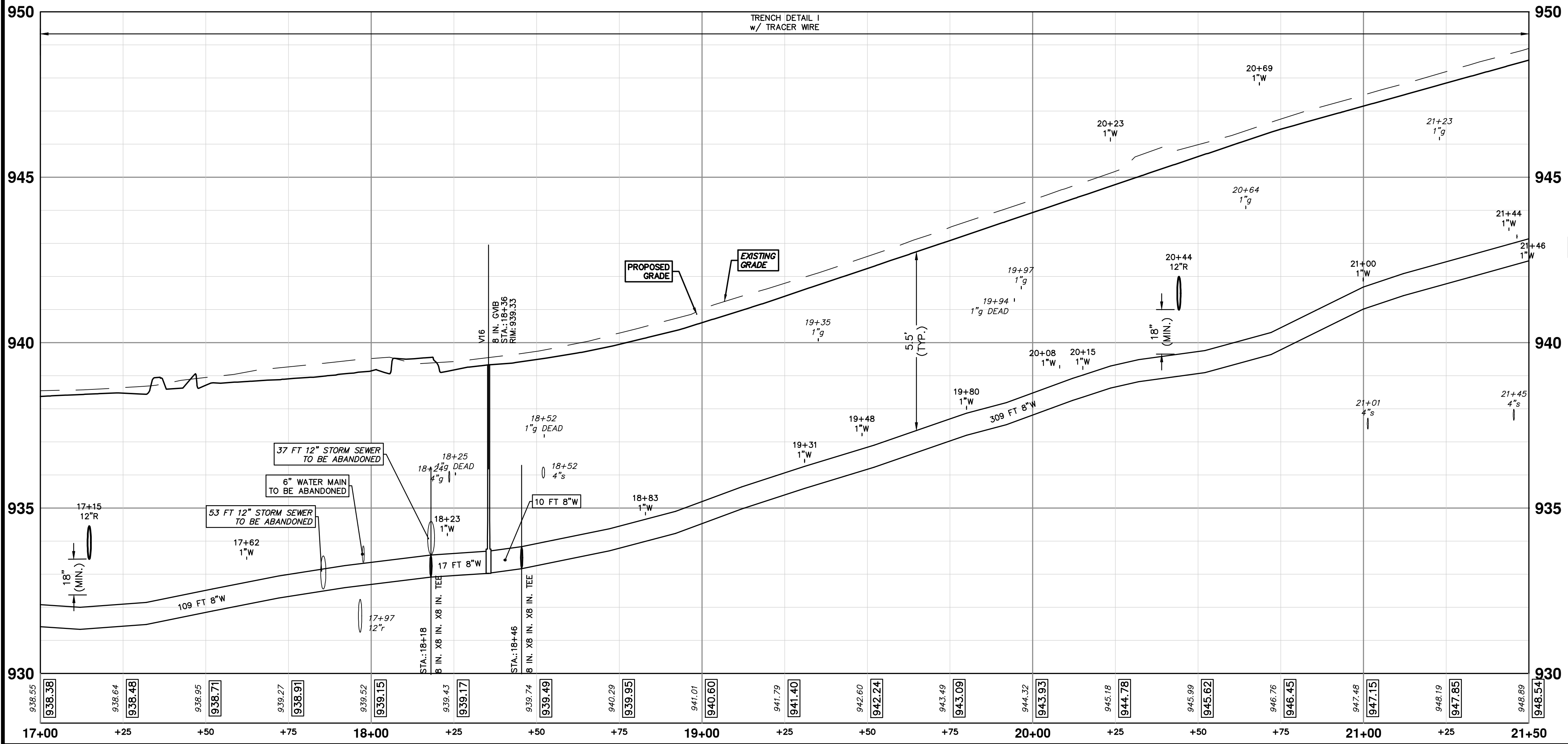
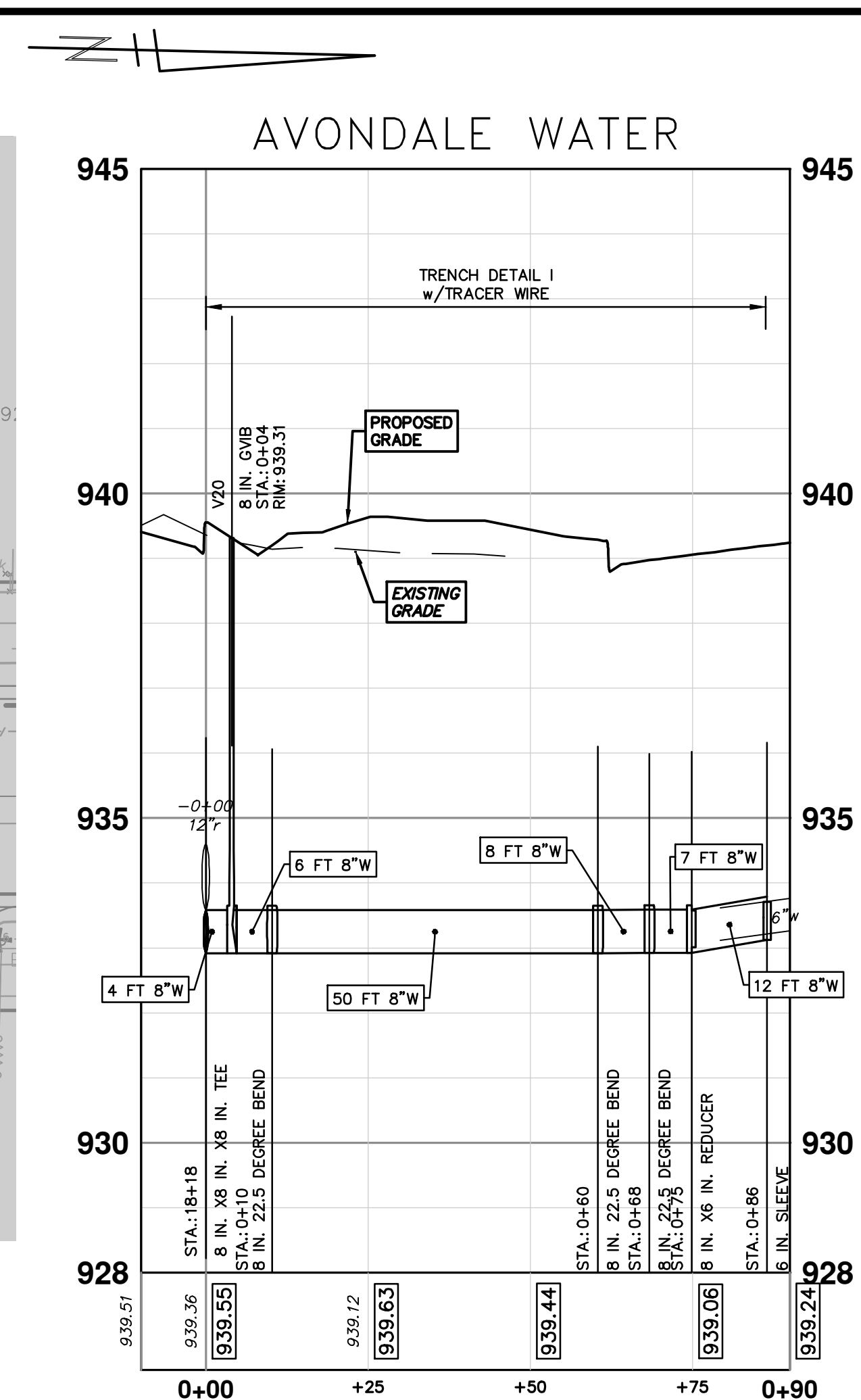
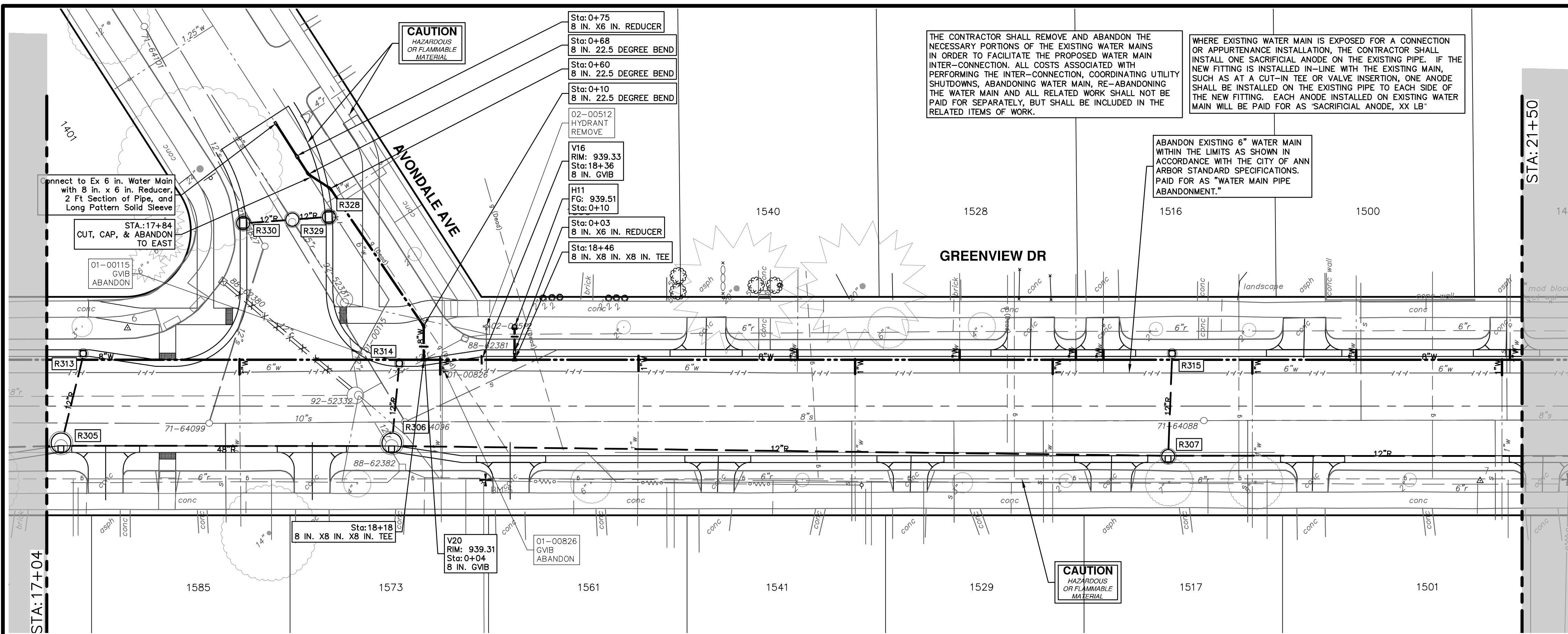
PROFILE: 1" = 2'

DRAWING NO. 2020031-36

SHEET NO. 36 OF 92

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ANN ARBOR: 734-794-4410  
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R:\2023002 Greenview\Plan Production\2023002Watr.dwg Dwg Created: 30-Jan-24 - \_a2 standard bw.stb - Plot Date: 14-Feb-24



WATER MAIN STRUCTURES			
STRUCTURE	TYPE	STATION	FG
H11	HYDRANT	0+10	939.51


  

WATER MAIN STRUCTURES			
STRUCTURE	TYPE	STATION	RIM
V20	8 in. G.V.B	0+04	939.31
V16	8 in. G.V.B	18+36	939.33



Know what's below. Call before you dig.

REV.	DATE	DESCRIPTION
01	2-14-24	ADDENDUM 1
00	1-30-24	BID SET



**CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING**  
**S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS**  
 WATER MAIN - GREENVIEW DRIVE NORTH

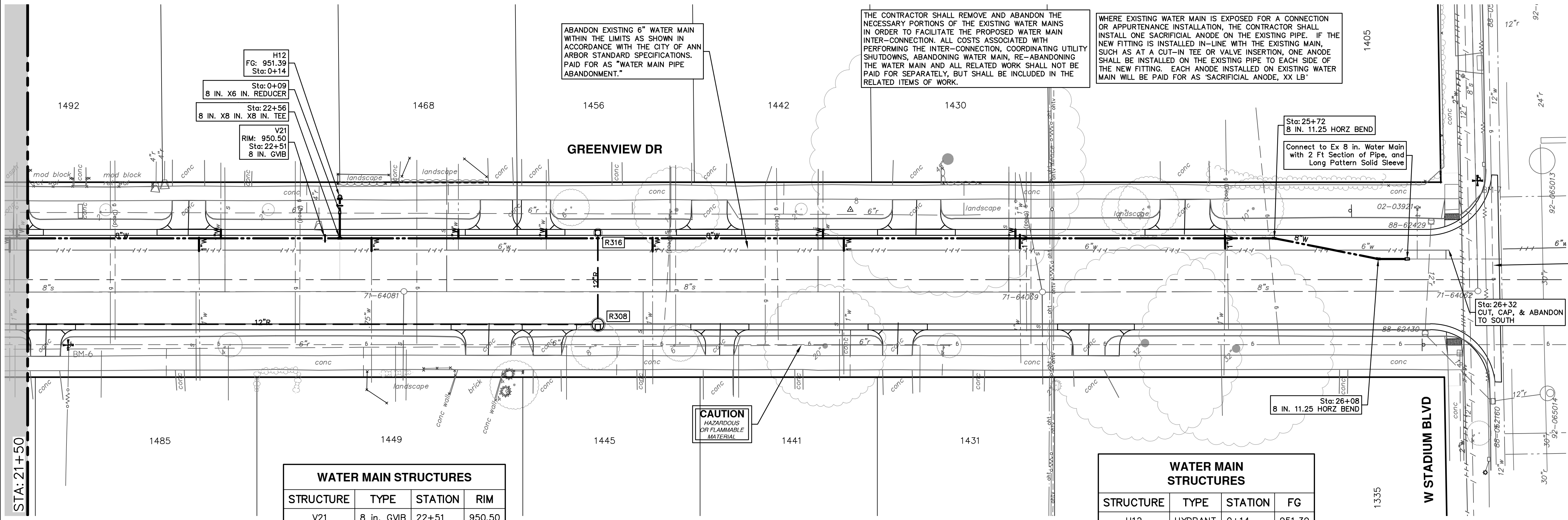
STA. 17+00 - STA. 21+50

SHEET No. **37 OF 92**

DRAWING No. **2020031-37**

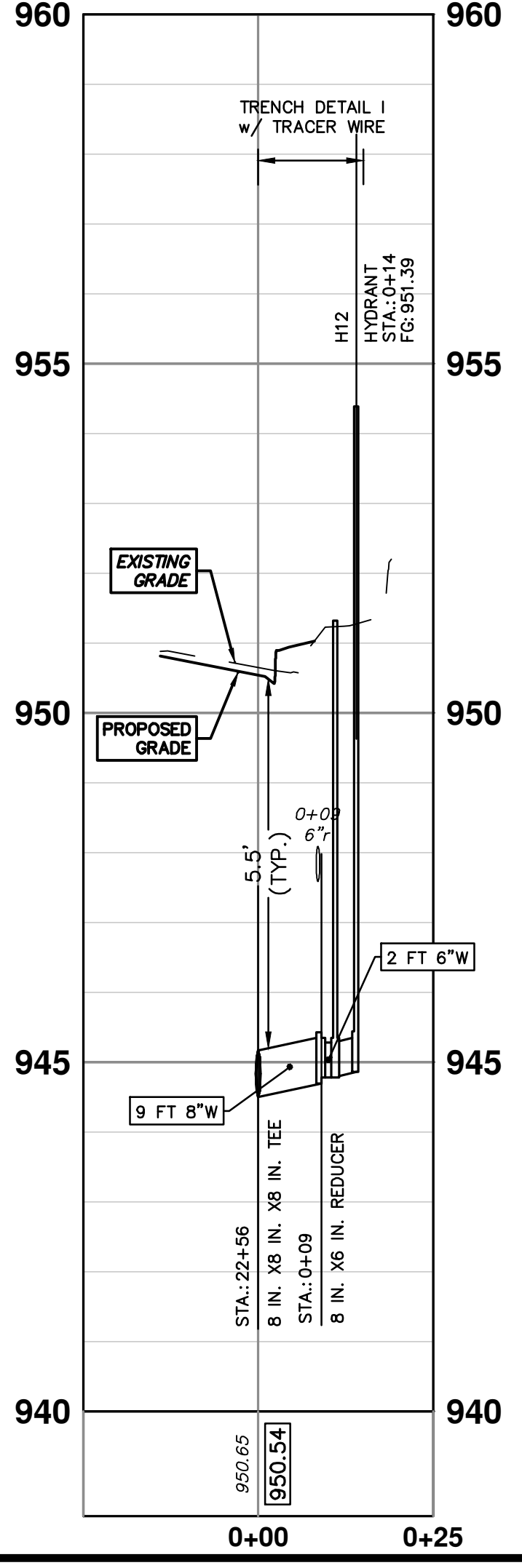
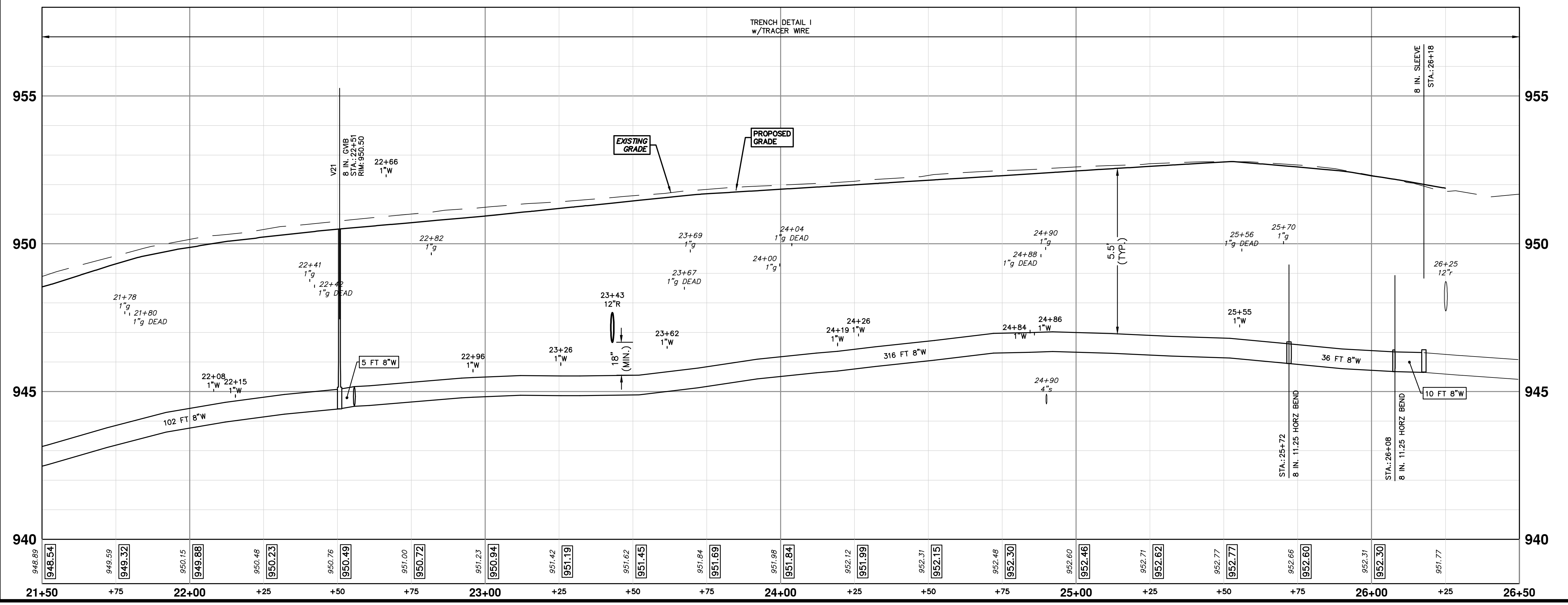
SCALE PLAN: 1" = 20'  
 PROFILE: 1" = 2'

R:\2023002\_Greenview\Plan Production\2023002Watr.dwg Dwg Created: 30-Jan-24 - \_a2\_standard\_bw.stb - Plot Date: 14-Feb-24



WATER MAIN STRUCTURES			
STRUCTURE	TYPE	STATION	RIM
V21	8 in. GVB	22+51	950.50

WATER MAIN STRUCTURES			
STRUCTURE	TYPE	STATION	FG
H12	HYDRANT	0+14	951.39



**811**  
Know what's below. Call before you dig.

01 APPENDIX 1  
2-14-24  
A2D  
DATE  
DRAWN  
CHECKED

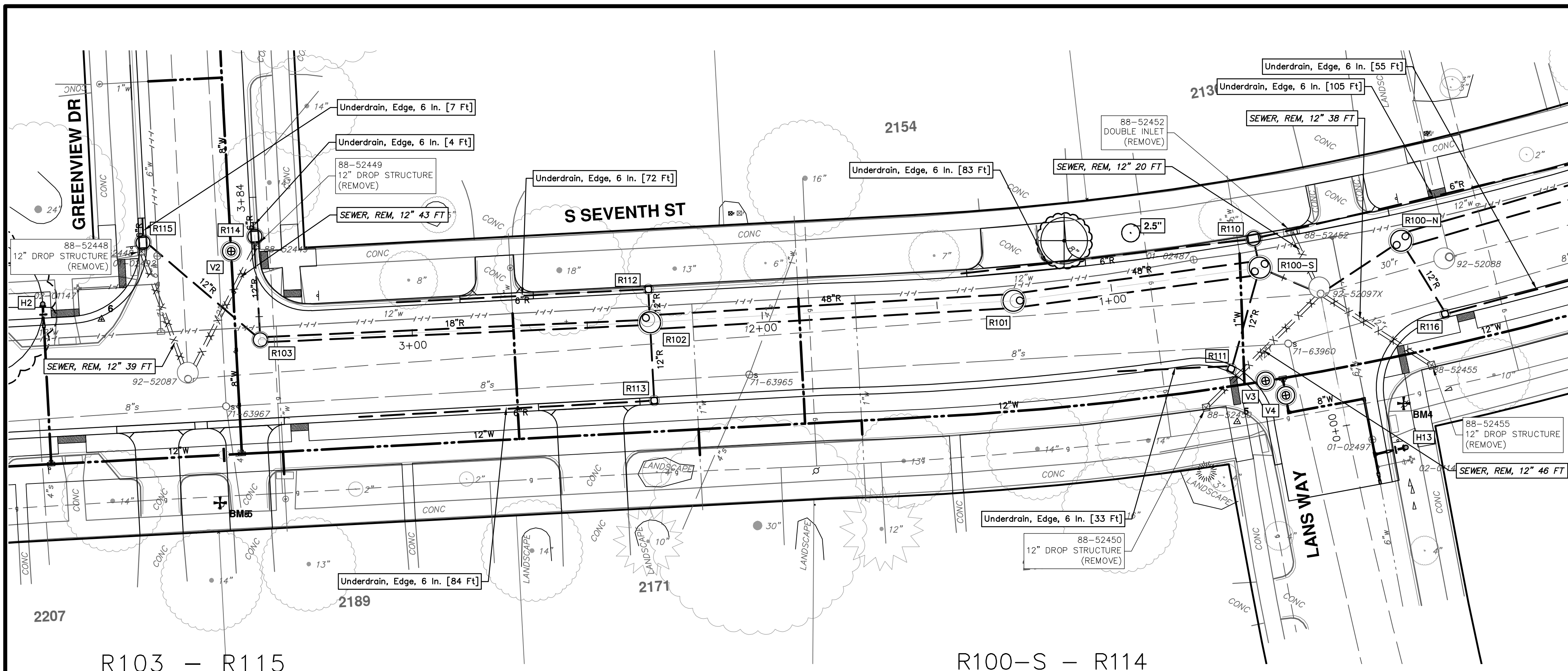
**CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING**  
**S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS**  
 WATER MAIN - GREENVIEW DRIVE NORTH  
 STA. 21+50 - STA. 26+13

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ANN ARBOR, MI 48106-1667  
ANN ARBOR 734.754.4110  
www.a2gov.org

SCALE PLAN: 1" = 2'  
PROFILE: 1" = 2'  
DRAWING NO. 2020031-38  
SHEET NO. 38 OF 92

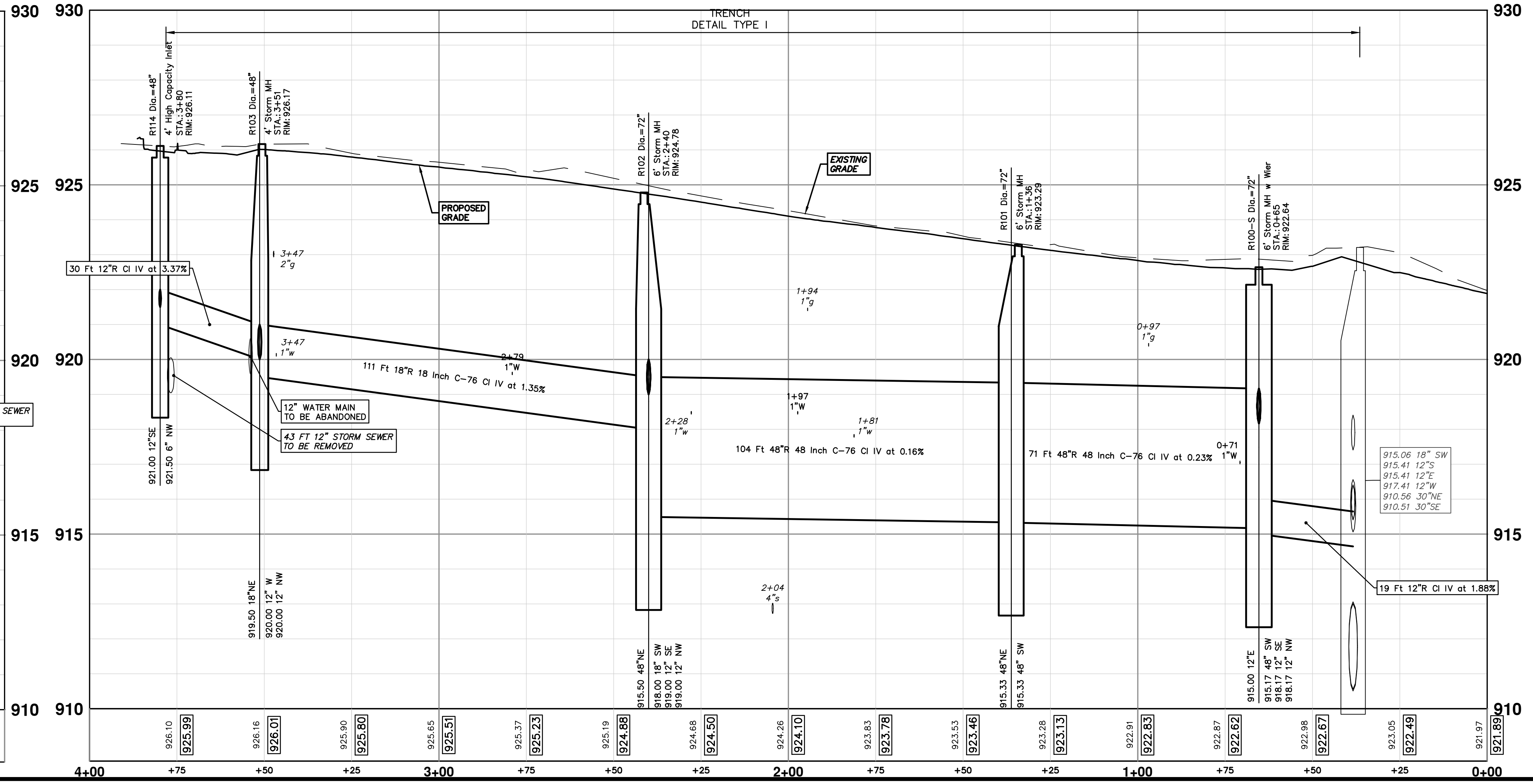
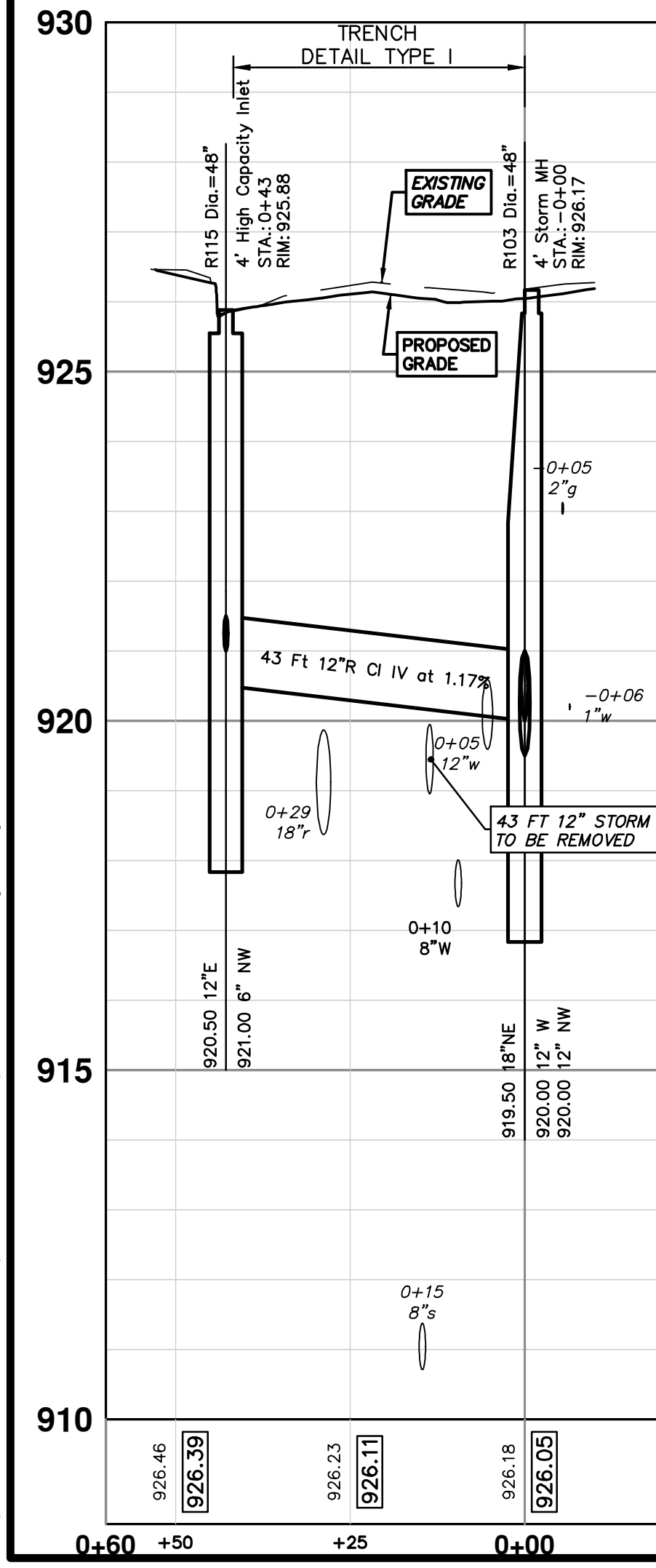



R:\2020031\31 7th Street\Plan Production\2020031Strm.dwg Dwg Created: 30-Jan-24 - \_g2 standard bw.stb - Plot Date: 14-Feb-24



STRUCTURE	UTILITY STATION	TYPE	RIM	INVERTS	DEPTH (Feet)	SUMP
R100-S	0+11	6' Storm MH w Wier	922.64	48" SW 915.17 12" SE 918.17 12" NW 918.17 12" E 915.00	9.64	2'
R101	1+28	6' Storm MH	923.29	48" SW 915.33 48" NE 915.33	9.95	2'
R102	2+32	6' Storm MH	924.78	18" SW 918.00 12" SE 919.00 12" NW 919.00 48" NE 915.50	11.28	2'
R103	3+43	4' Storm MH	926.17	12" W 920.00 12" NW 920.00 18" NE 919.50	8.67	2'
R114	3+73	4' High Capacity Inlet	926.11	6" NW 921.50 12" SE 921.00	7.11	2'
R115	0+43	4' High Capacity Inlet	925.88	6" NW 921.00 12" E 920.50	7.38	2'


STRUCTURE	DEPTH (Feet)	REMOVE
88-52452	4.41	Double Inlet (REMOVE)
88-52455	6.93	12" Drop Structure (REMOVE)
88-52450	6.92	12" Drop Structure (REMOVE)
88-52448	6.34	12" Drop Structure (REMOVE)
88-52449	7.04	12" Drop Structure (REMOVE)





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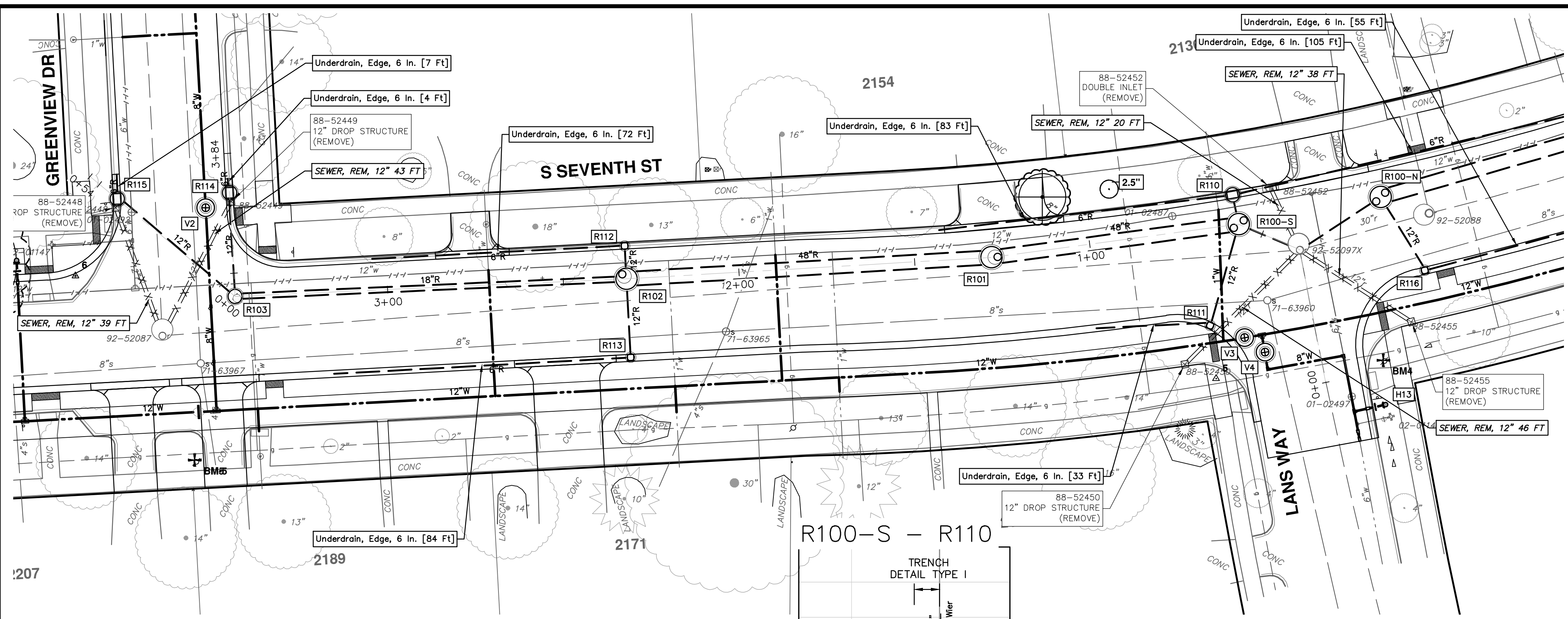
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00	BID SET	1-30-24	A2D	TA	TA	TA	TA	TA	TA
	REV.	DATE	DESCRIPTION						



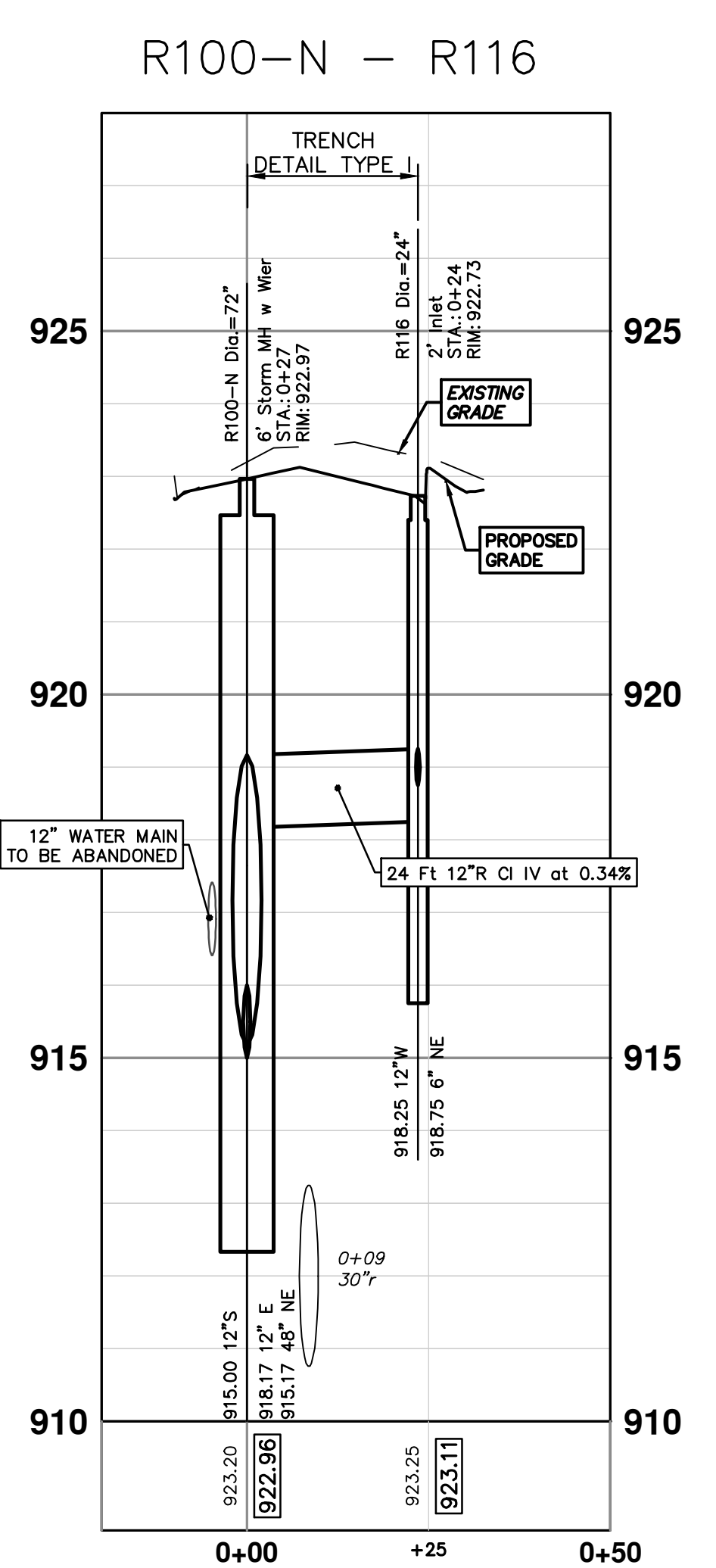
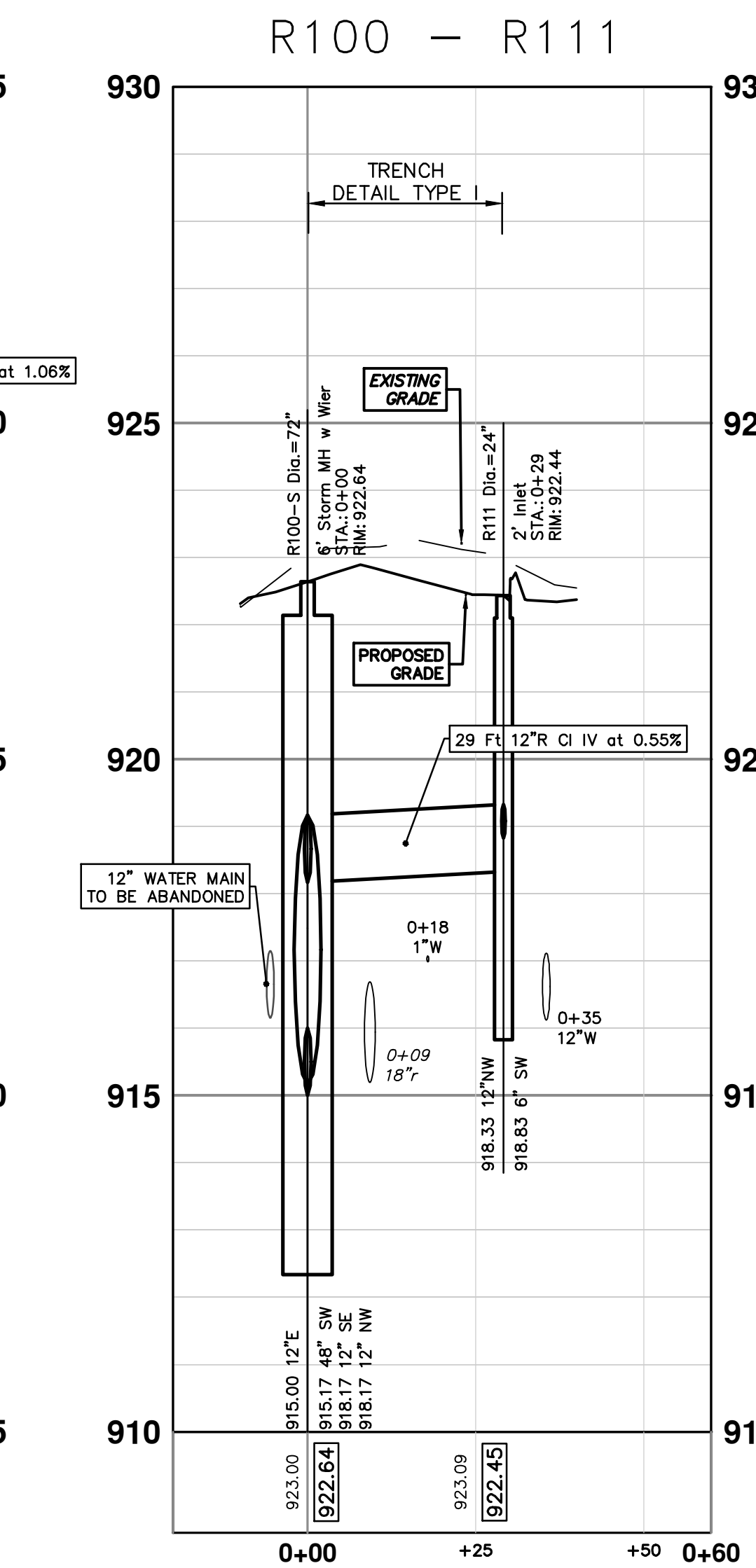
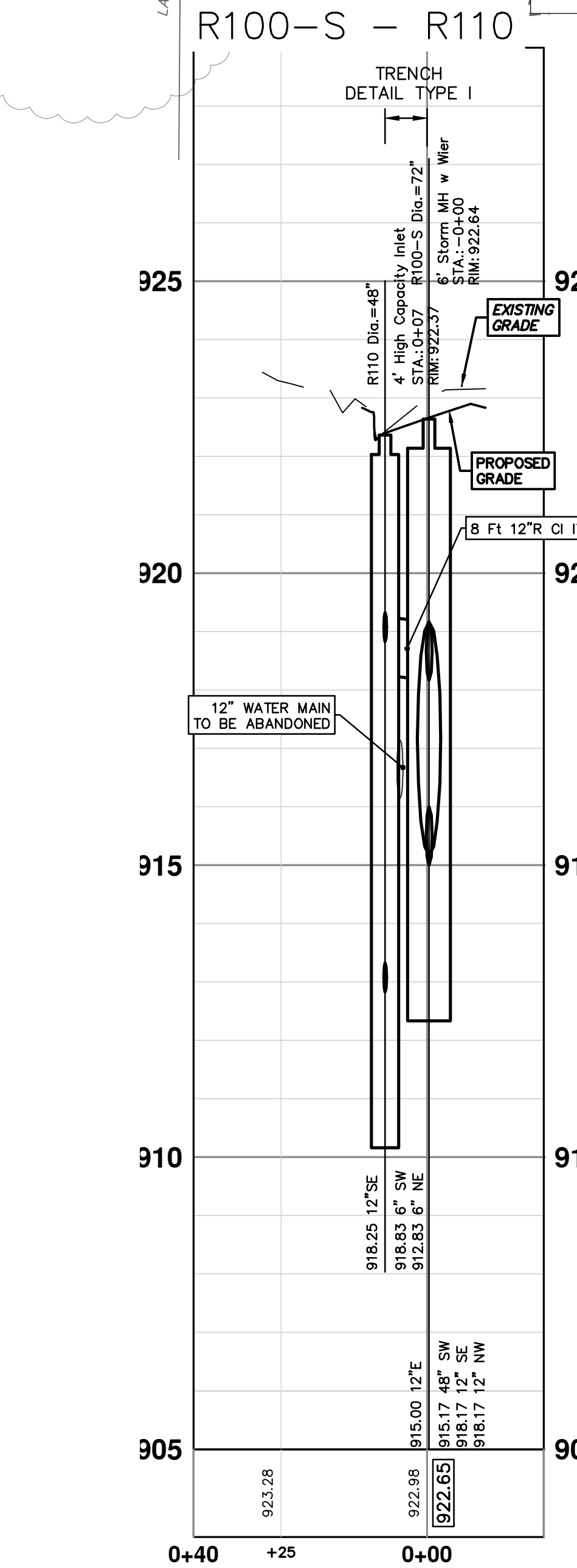
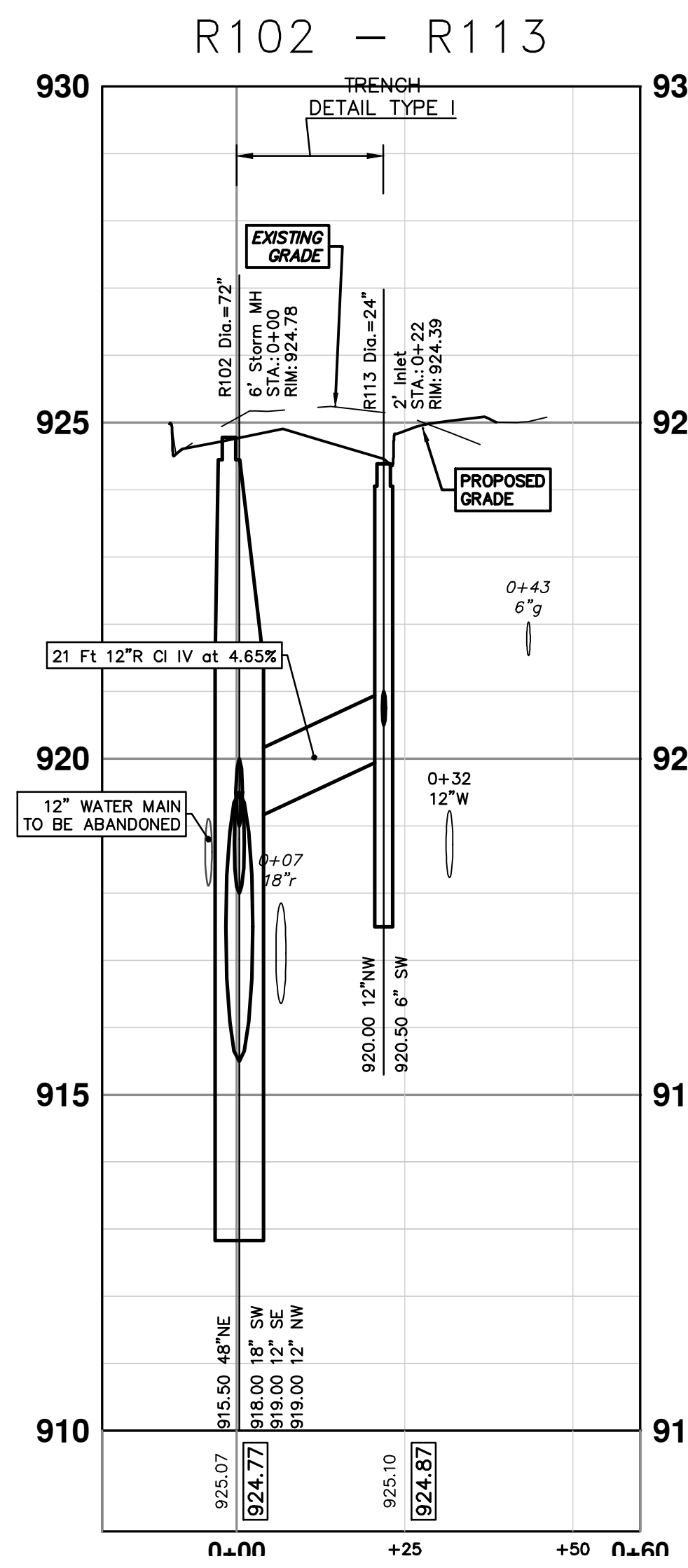
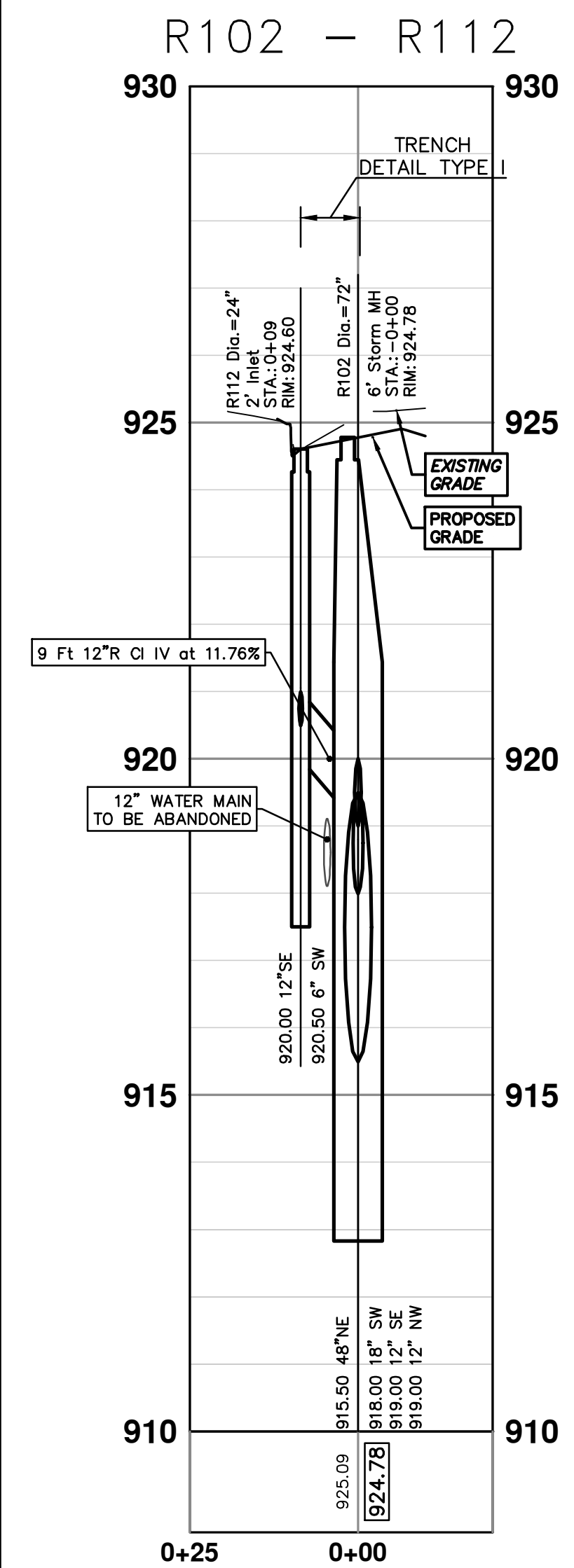
**CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING**  
**S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS**  
 STORM SEWER PLAN & PROFILE - S SEVENTH STREET

PROFILE: 1" = 2'  
 SCALE PLAN: 1" = 20'  
 SHEET No. **39 OF 92**  
 DRAWING No. **2020031-39**  
 R100-S R101 R102 R103 R114 R115

R:\2020031\_31\_7th Street\Plan Production\2020031Strm.dwg Dwg Created: 30-Jan-24 - \_02 standard bw.stb - Plot Date: 14-Feb-24



STRUCTURE	UTILITY STATION	TYPE	RIM	INVERTS	DEPTH (Feet)	SUMP
R110	0+07	4' High Capacity Inlet	922.37	6" SW 918.83 6" SE 918.25	11.54	2'
R111	0+29	2' Inlet	922.44	6" SW 918.83 12" NW 918.33	6.11	2'
R112	0+09	2' Inlet	924.60	6" SW 920.50 12" SE 920.00	6.60	2'
R113	0+22	2' Inlet	924.39	6" SW 920.50 12" NW 920.00	6.39	2'
R116	0+24	2' Inlet	922.73	6" NE 918.75 12" W 918.25	6.48	2'



STRUCTURE	DEPTH (Feet)	REMOVE
88-52452	4.41	Double Inlet (REMOVE)
88-52455	6.93	12" Drop Structure (REMOVE)
88-52450	6.92	12" Drop Structure (REMOVE)
88-52448	6.34	12" Drop Structure (REMOVE)
88-52449	7.04	12" Drop Structure (REMOVE)

**CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING**

**S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS**

STORM SEWER PLAN & PROFILE - S SEVENTH STREET

SCALE PLAN: 1" = 20'  
PROFILE: 1" = 2'

DRAWING NO. 2020031-40

SHEET NO. 40 OF 92

**811**  
Know what's below.  
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01 ADDENDUM 1  
00 BID SET

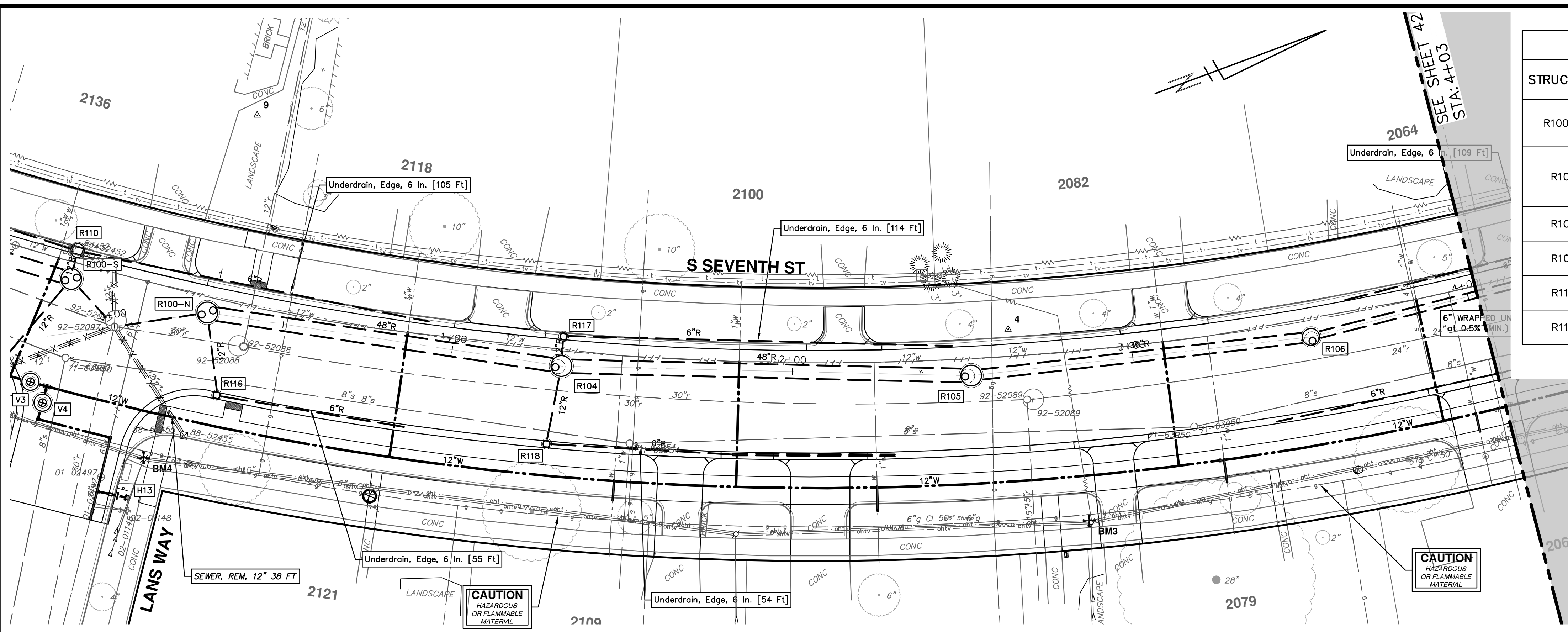
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1-30-24

DATE  
DRAWN  
CHECKED

DESCRIPTION  
REV.

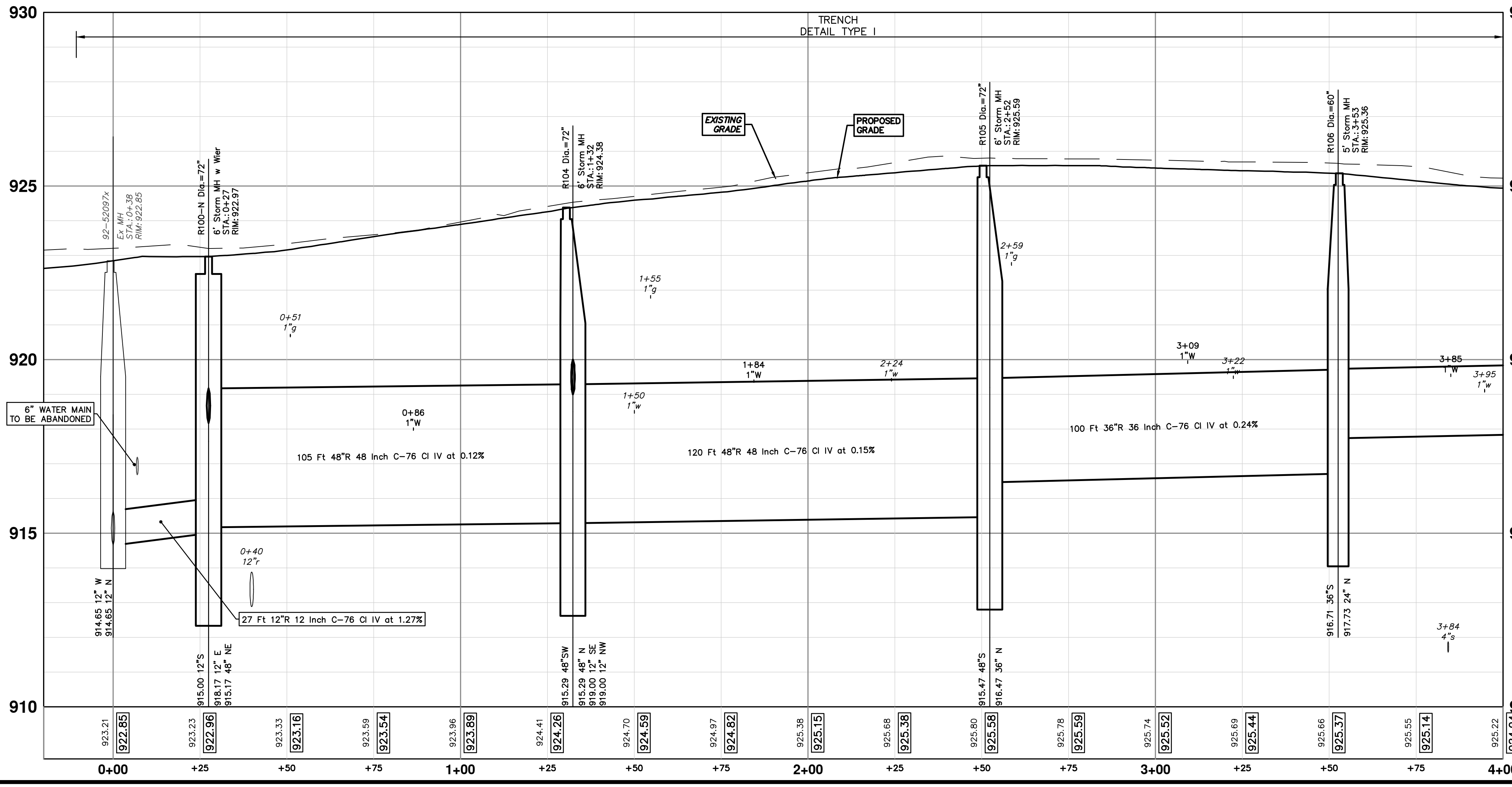
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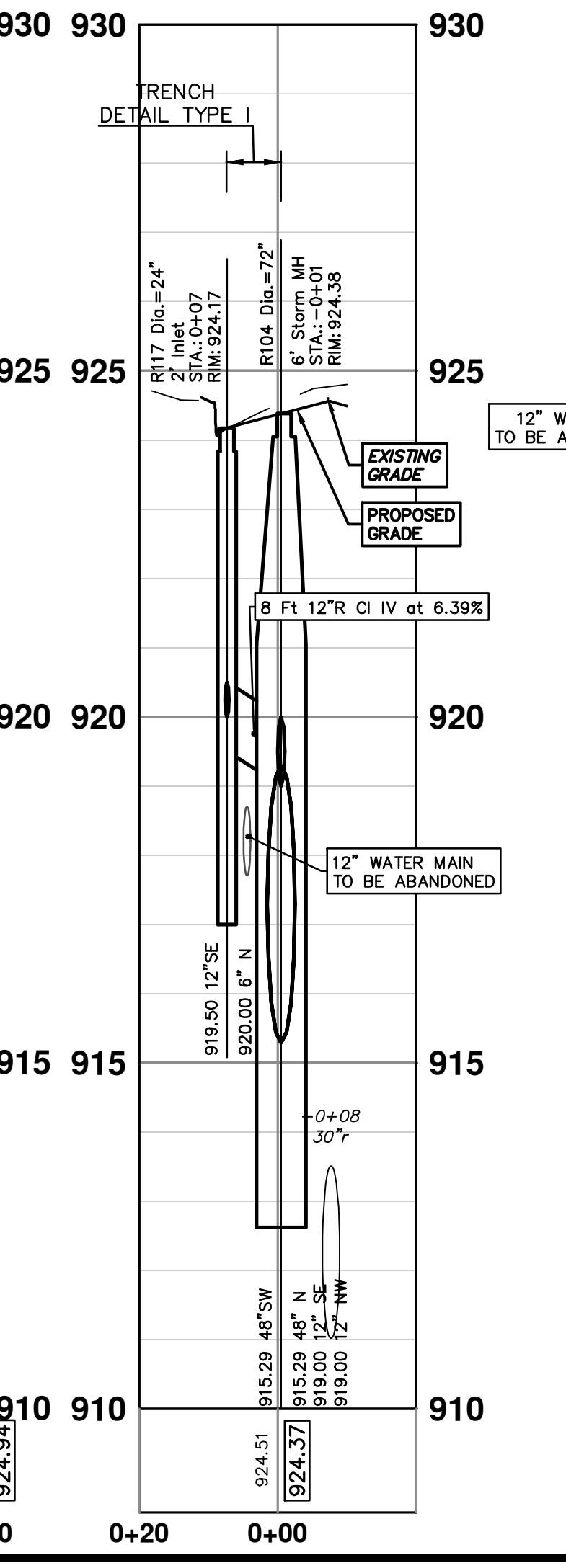


STORM SEWER STRUCTURE TABLE						
STRUCTURE	UTILITY STATION	TYPE	RIM	INVERTS	DEPTH (Feet)	SUMP
R100-N	0+27	6' Storm MH w Wier	922.97	12" E 918.17 48" NE 915.17 12" S 915.00	9.97	2'
R104	1+32	6' Storm MH	924.38	48" N 915.29 12" SE 919.00 48" SW 915.29	11.09	2'
R105	2+52	6' Storm MH	925.59	36" N 916.47 48" S 915.47	12.12	2'
R106	3+53	5' Storm MH	925.36	24" N 917.73 36" S 916.71	10.65	2'
R117	0+07	2' Inlet	924.17	6" N 920.00 12" SE 919.50	6.67	2'
R118	0+23	2' Inlet	923.99	6" NE 920.00 12" NW 919.50	6.49	2'

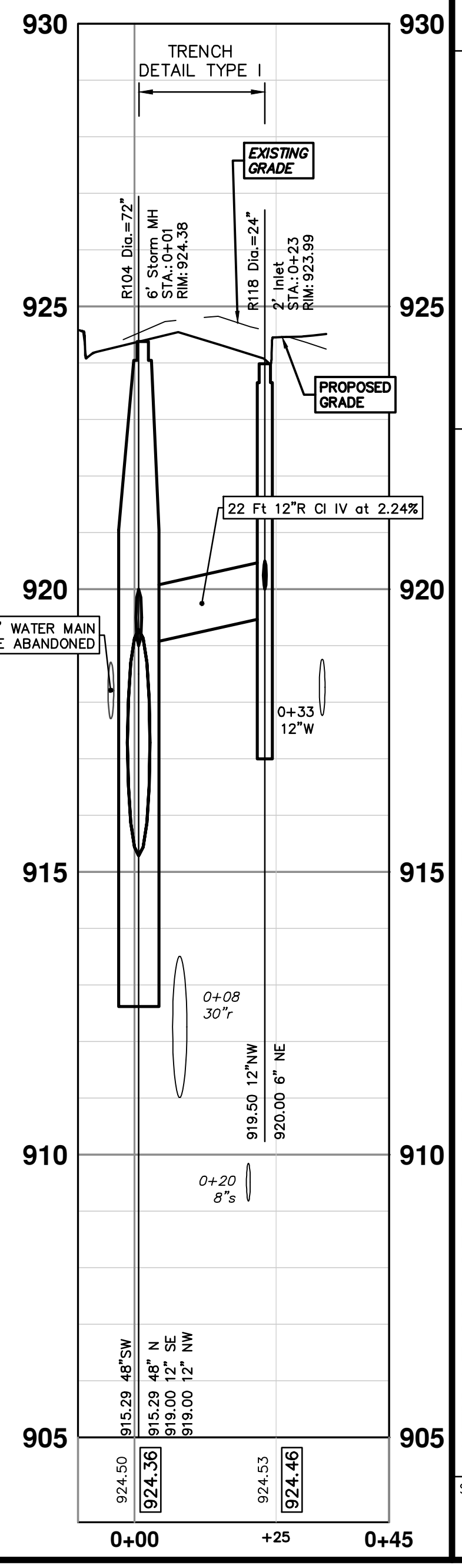
R100-N - R106




R104 - R117



R104 - R118





**CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING**

**S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS**

STORM SEWER PLAN & PROFILE - S SEVENTH ST & GREENVIEW DR SOUTH

R100-N R104 R105 R106 R117 R118

01 APPENDIX 1  
00 BID SET  
DATE  
DESCRIPTION  
REV.

01  
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1-30-24  
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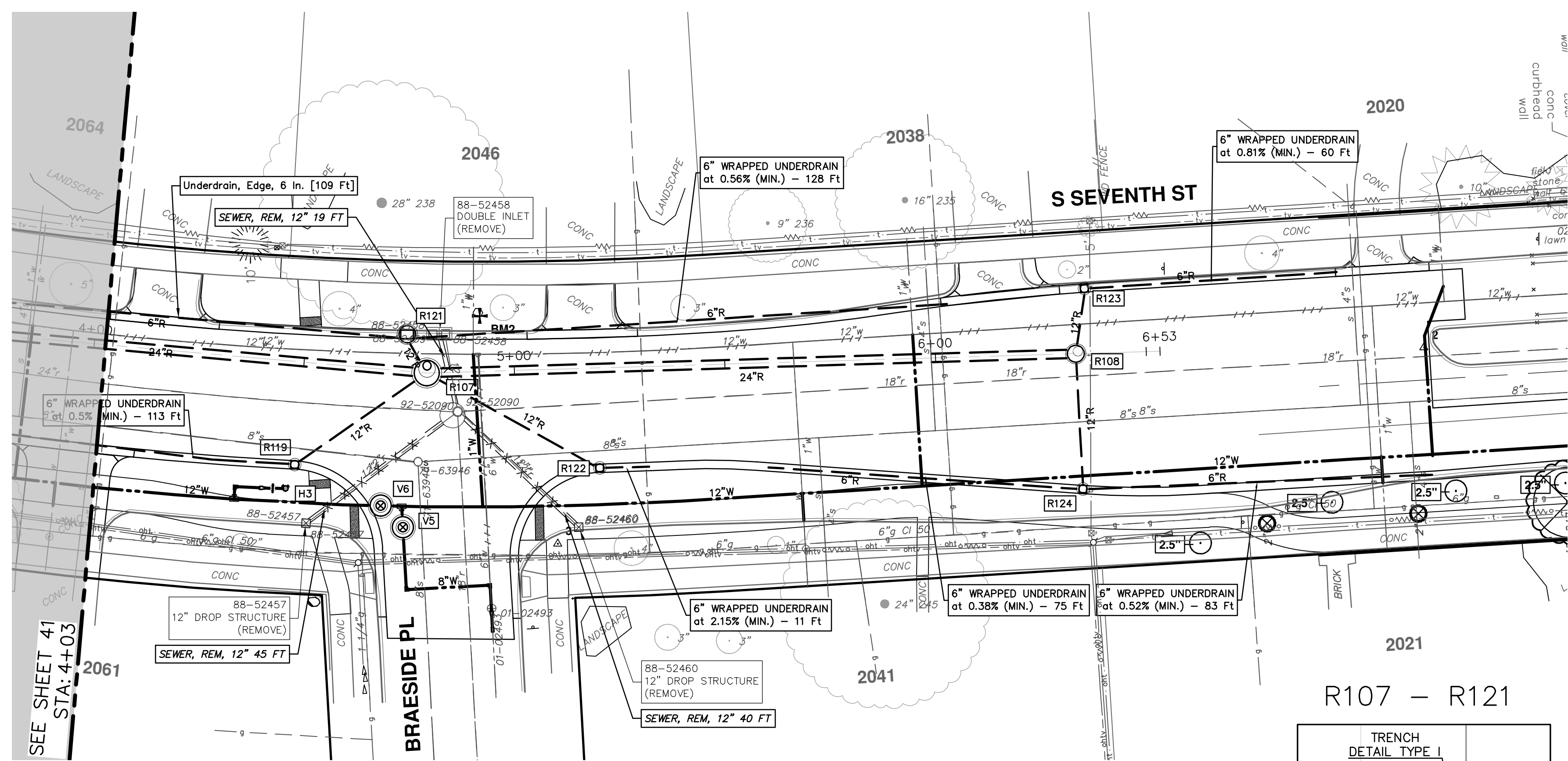


SCALE PLAN: 1" = 20'  
PROFILE: 1" = 2'

DRAWING NO.  
**2020031-41**

SHEET NO.  
**41 OF 92**

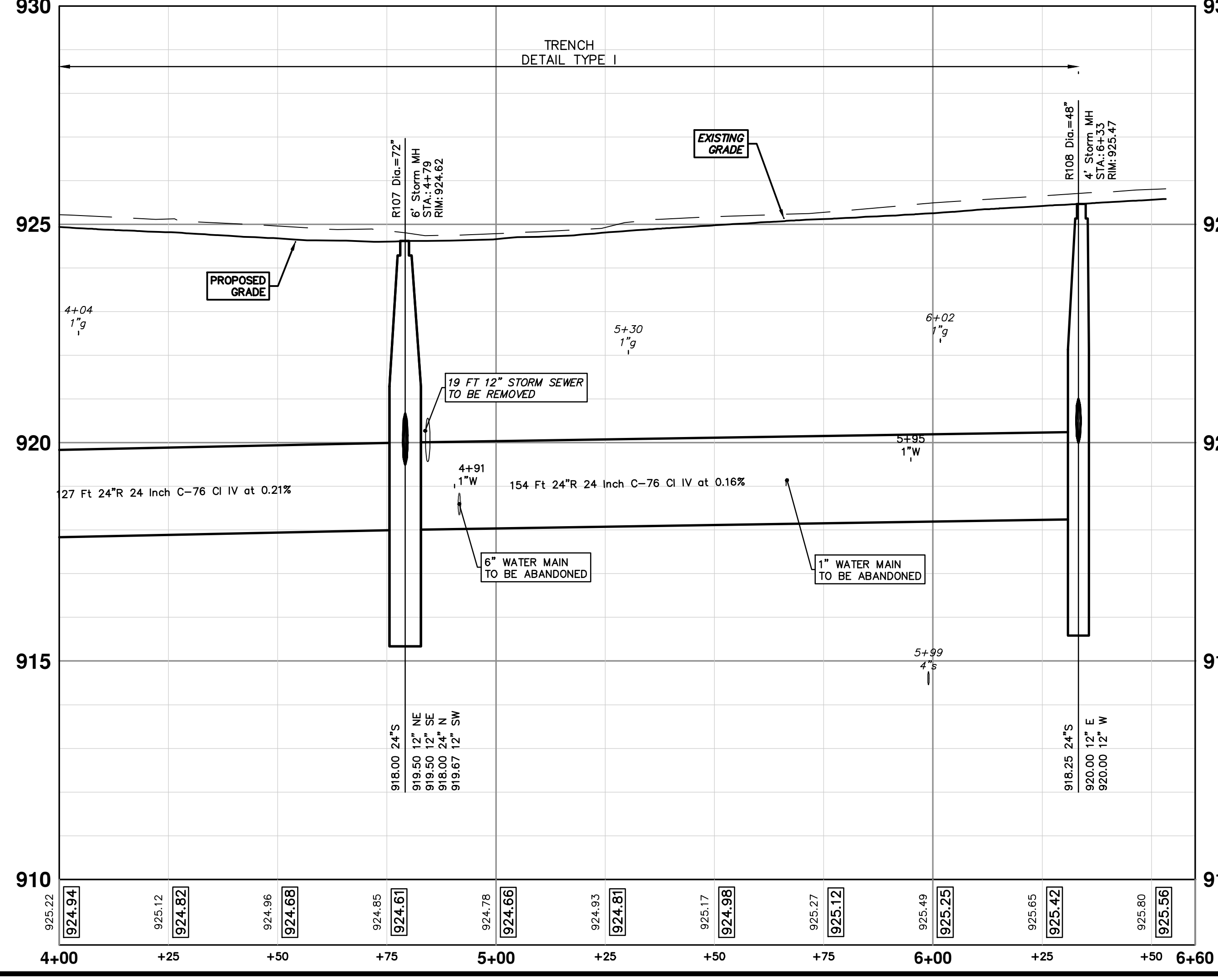
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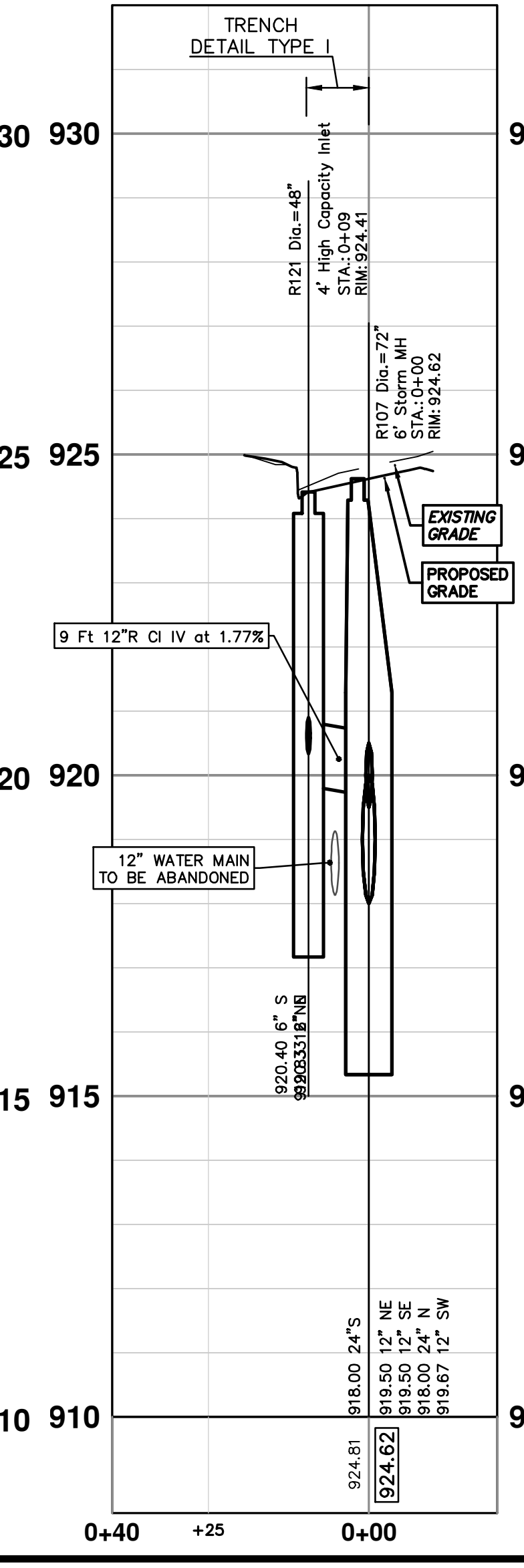
STRUCTURE	DEPTH (Feet)	REMOVE
88-52460	3.43	12" Drop Structure (REMOVE)
88-52457	4.82	12" Drop Structure (REMOVE)
88-52458	4.19	Double Inlet (REMOVE)

STRUCTURE	UTILITY STATION	TYPE	RIM	INVERTS	DEPTH (Feet)	SUMP
R107	4+79	6' Storm MH	924.62	12" NE 919.50 12" SE 919.50 24" N 918.00 12" SW 919.67 24" S 918.00	8.62	2'
R108	6+33	4' Storm MH	925.47	12" E 920.00 12" W 920.00 24" S 918.25	9.22	2'
R119	0+38	2' Inlet	924.37	6" S 920.50 12" NW 920.00	4.37	0'
R121	0+09	4' High Capacity Inlet	924.41	6" S 920.40 6" N 920.33 12" NE 919.83	6.58	2'
R122	0+36	2' Inlet	924.41	6" N 920.50 12" SW 920.00	6.41	2'

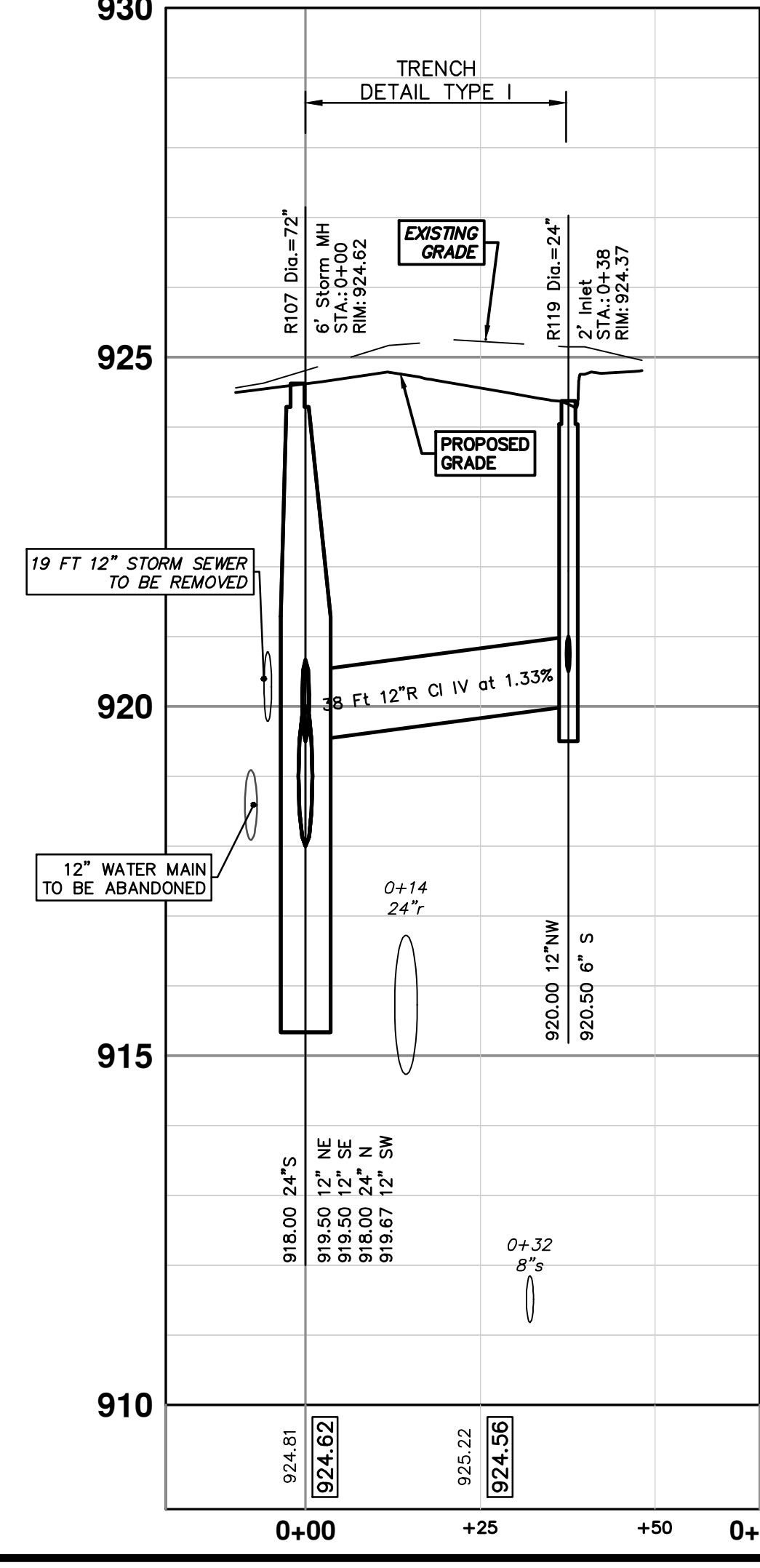
R107 - R108



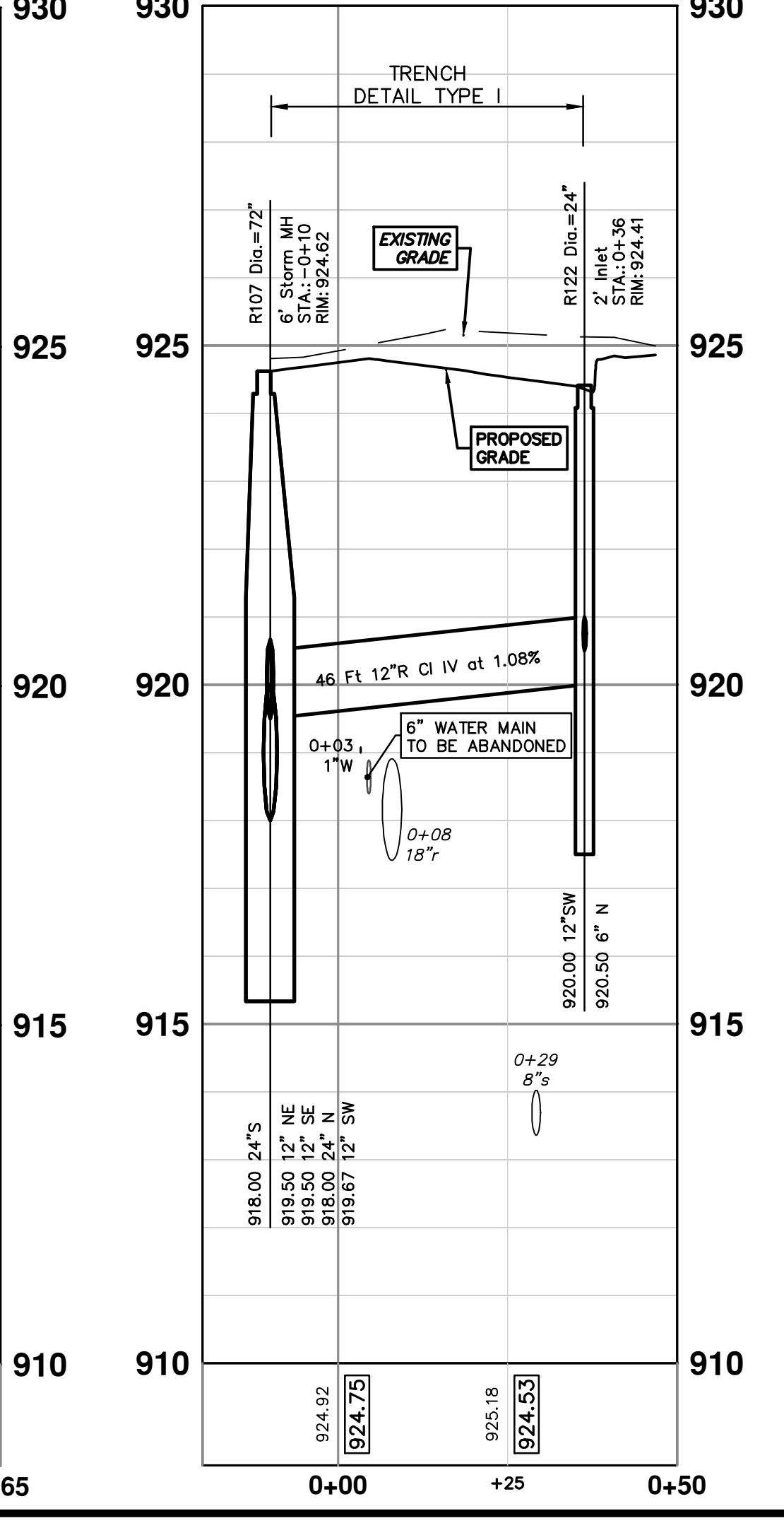
R107 - R121



R107 - R119



R107 - R122



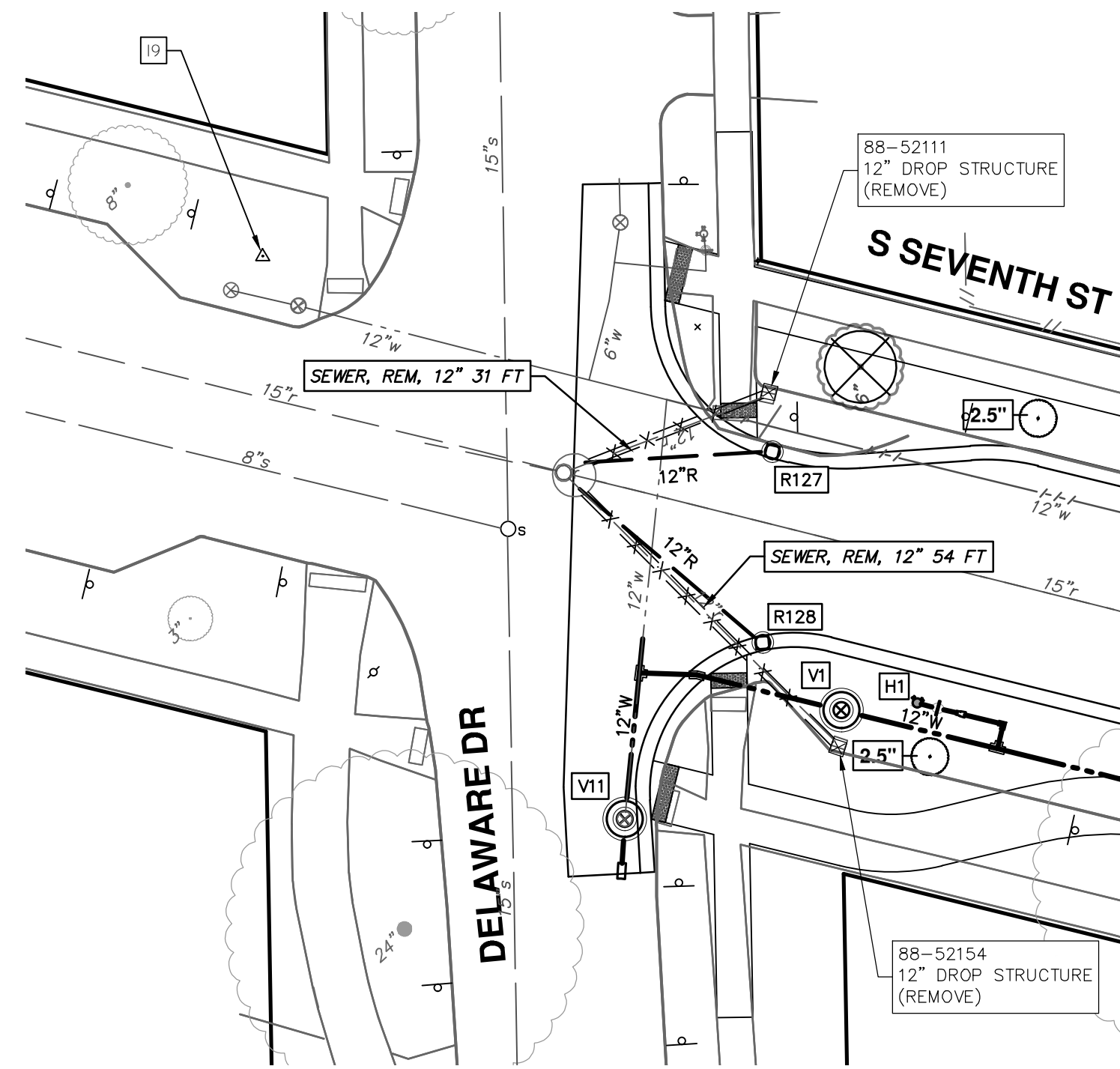
CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING  
S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS  
STORM SEWER PLAN & PROFILE - S SEVENTH ST & GREENVIEW DR SOUTH  
R107 R108 R119 R121 R122

SCALE PLAN: 1" = 20'  
PROFILE: 1" = 2'

DRAWING NO. 2020031-42

SHEET NO. 42 OF 92

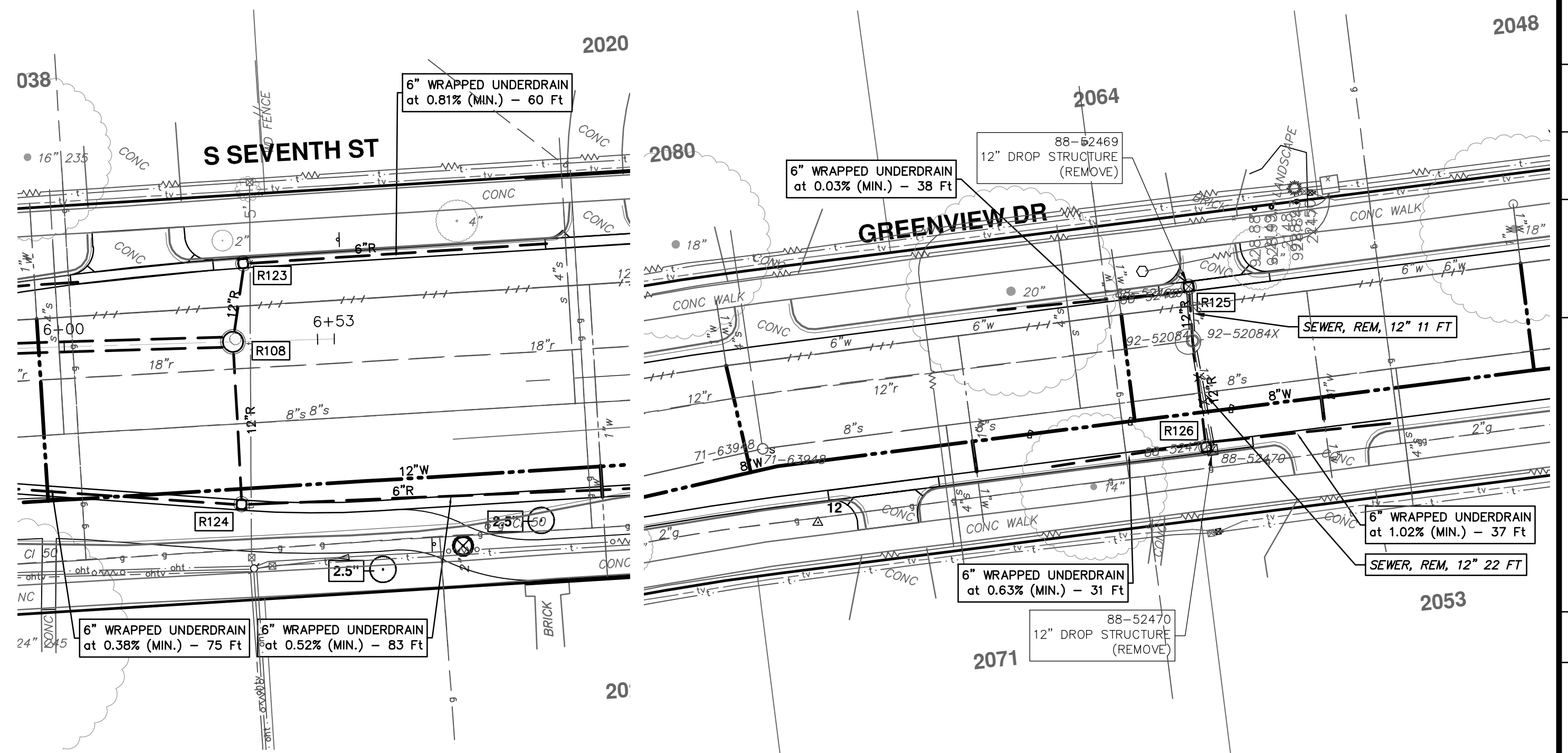
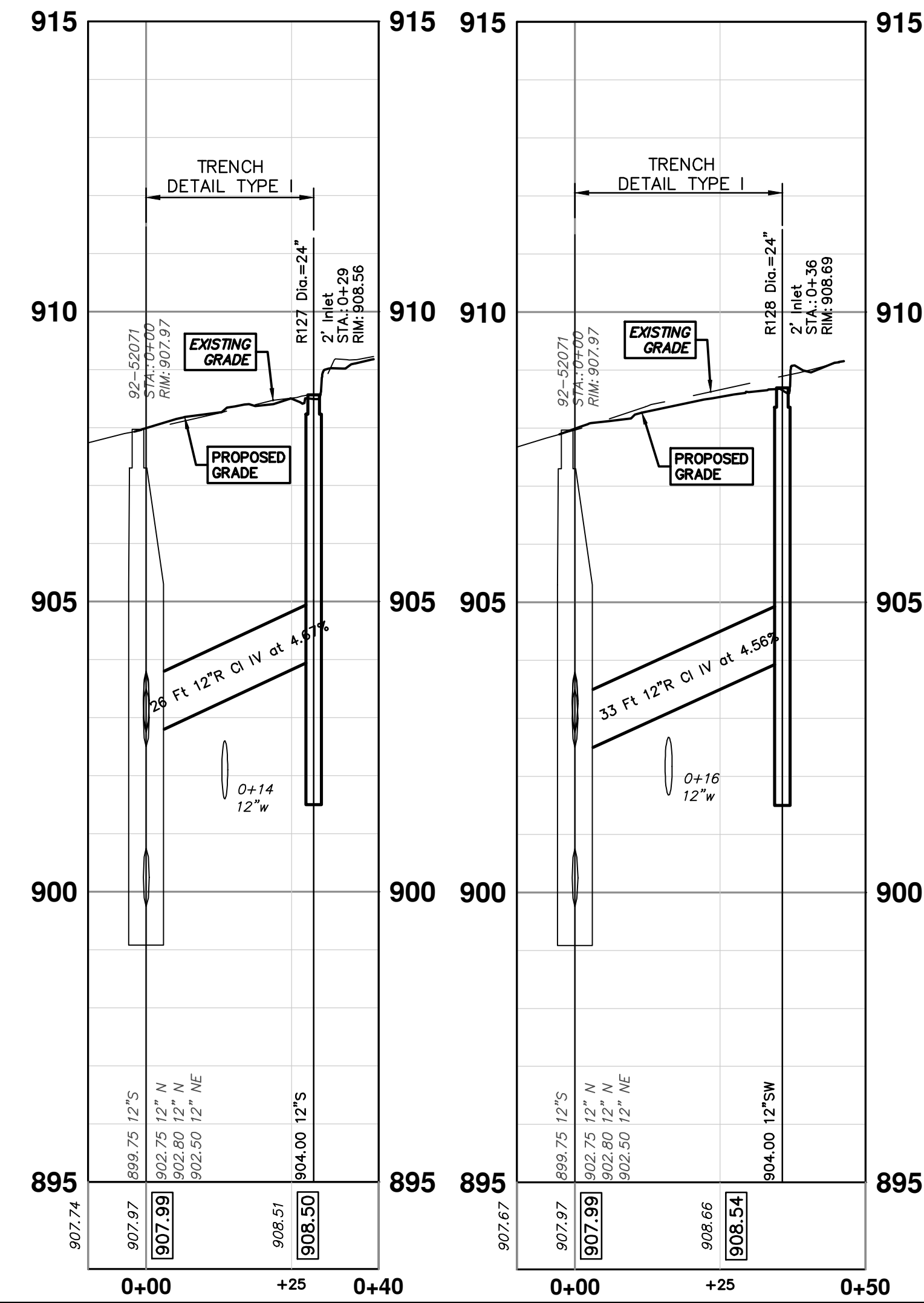
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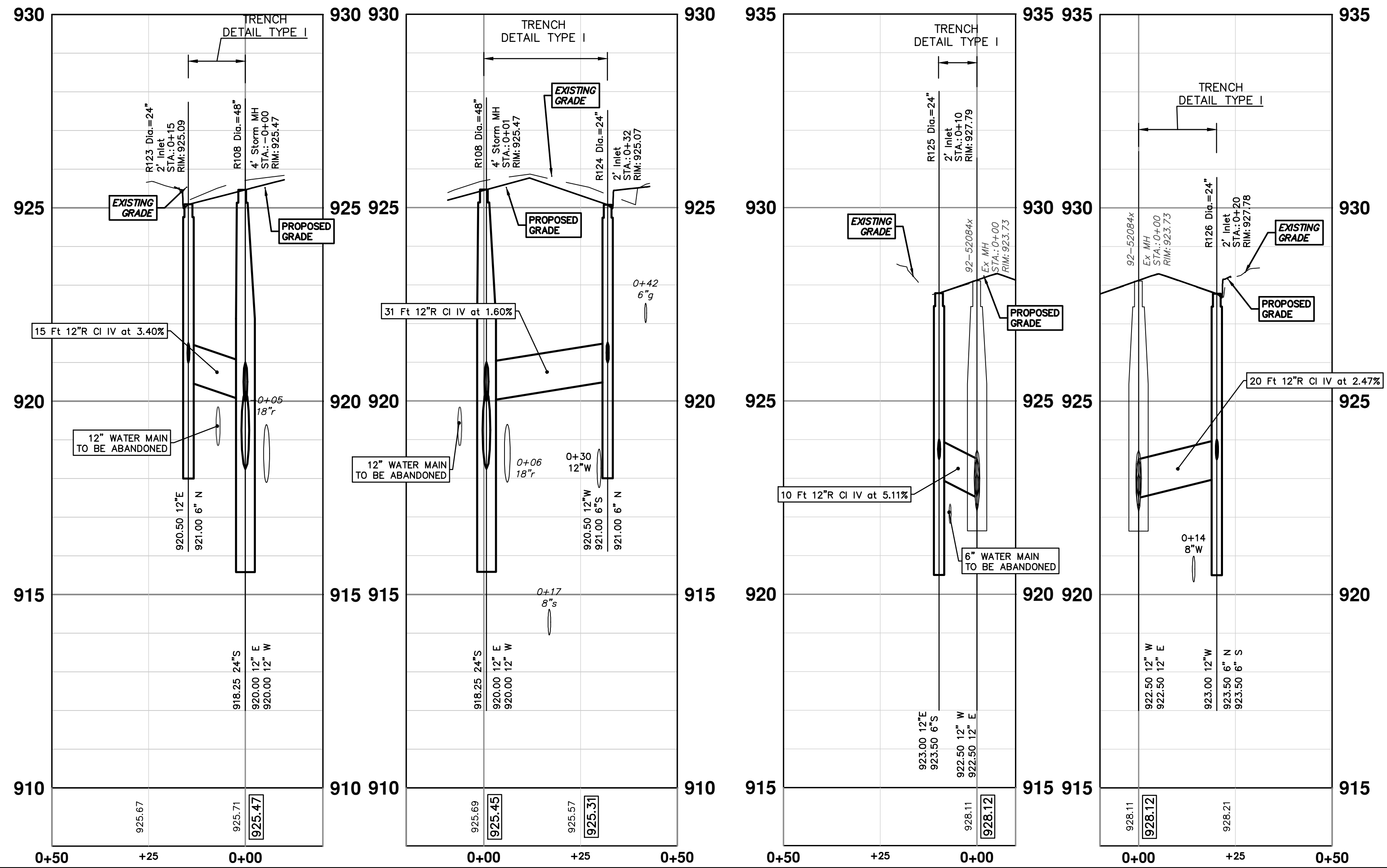
STORM SEWER STRUCTURE TABLE						
STRUCTURE	UTILITY STATION	TYPE	RIM	INVERTS	DEPTH (Feet)	SUMP
R123	0+15	2' Inlet	925.09	6" N 921.00 12" E 920.50	6.59	2'
R124	0+32	2' Inlet	925.07	6" N 921.00 12" W 920.50 6" S 921.00	6.57	2'
R125	0+10	2' Inlet	927.79	12" E 923.00 6" S 923.50	6.79	2'
R126	0+20	2' Inlet	927.78	6" N 923.50 6" S 923.50 12" W 923.00	6.78	2'
R127	0+29	2' Inlet	908.56	12" S 904.00	6.56	2'
R128	0+36	2' Inlet	908.69	12" SW 904.00	6.69	2'

EXISTING STORM SEWER STRUCTURE REMOVAL TABLE		
STRUCTURE	DEPTH (Feet)	REMOVE
88-52111	4.06	12" Drop Structure (REMOVE)
88-52154	5.47	12" Drop Structure (REMOVE)
88-52470	4.93	12" Drop Structure (REMOVE)
88-52469	5.01	12" Drop Structure (REMOVE)

92-52071 - R127 92-52071 - R128



R108 - R123 R108 - R124 92-52084 - R125 92-52084 - R126



REV.	DATE	DESCRIPTION
01	2-14-24	ADDENDUM 1
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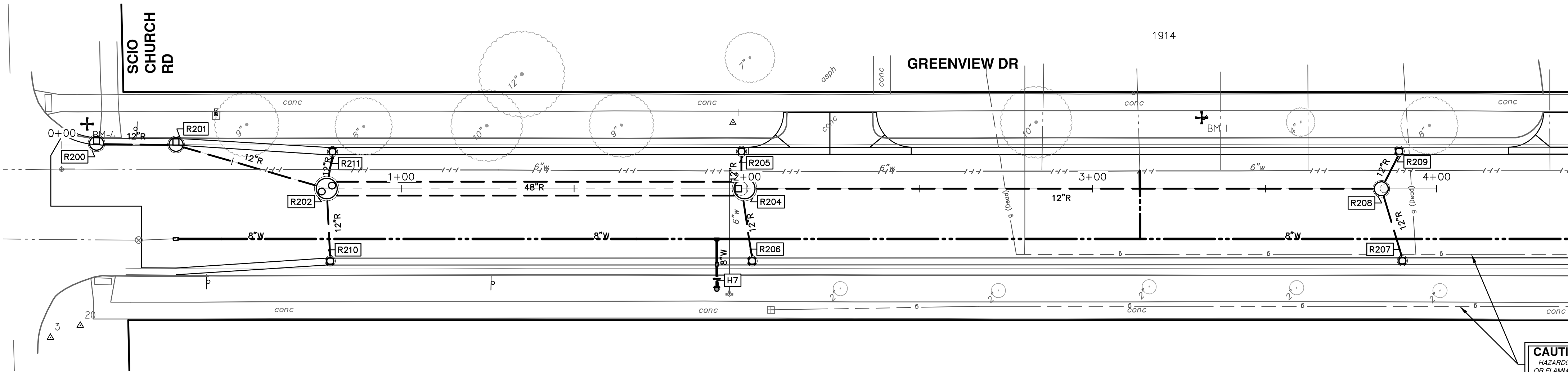
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R123 R124 R125 R126 R127 R128

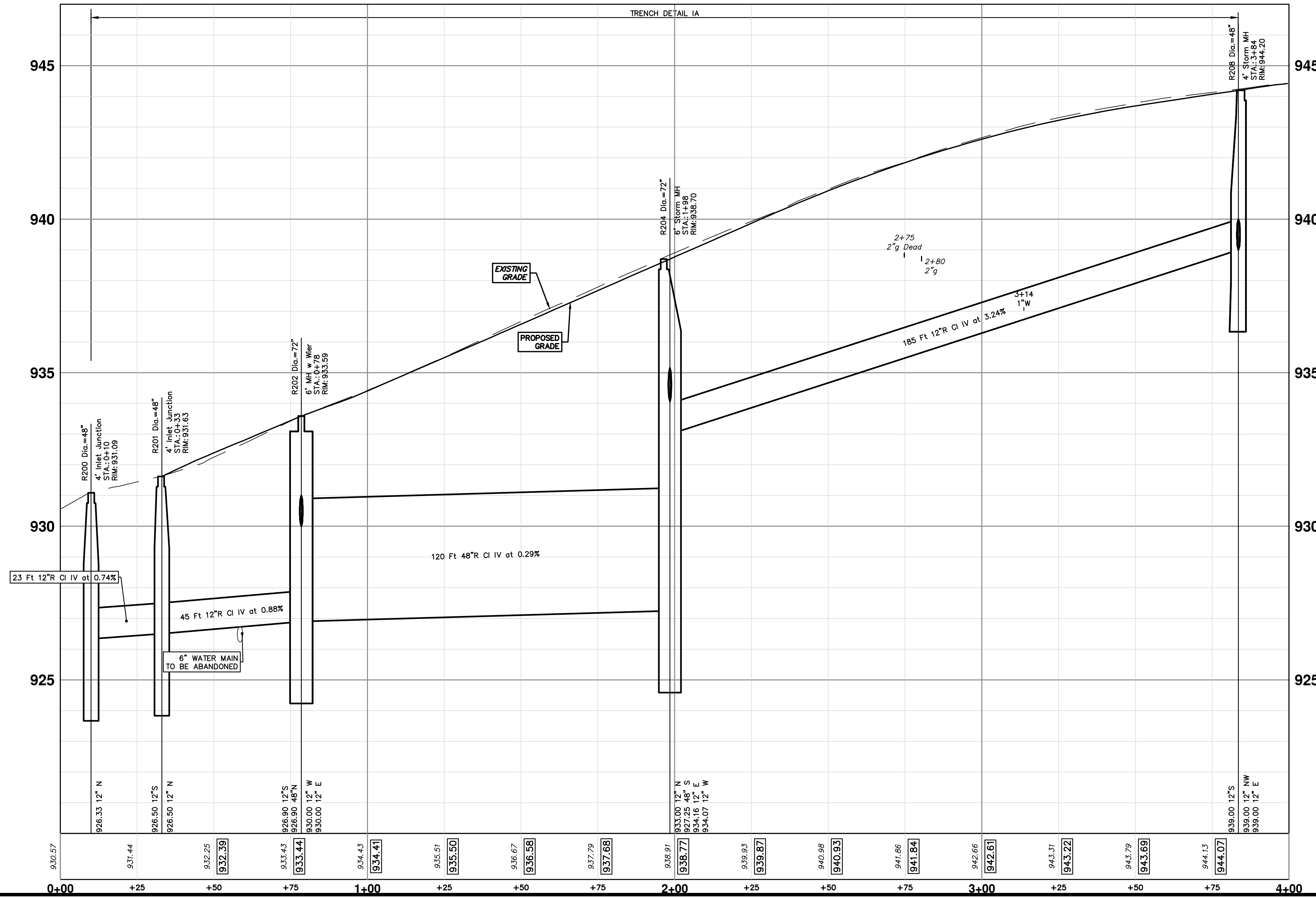
SCALE PLAN: 1" = 20'  
PROFILE: 1" = 2'  
DRAWING NO. 2020031-43  
SHEET No. 43 OF 92

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R200 - R208

**CAUTION**  
HAZARDOUS  
OR FLAMMABLE  
MATERIAL



STORM SEWER STRUCTURE TABLE						
STRUCTURE	UTILITY STATION	TYPE	RIM	INVERTS	DEPTH (Feet)	SUMP
R200	0+10	4' Inlet Junction	931.09	12" N 926.33 12" S 926.50	6.76	2'
R201	0+33	4' Inlet Junction	931.63	12" N 926.50 12" S 926.50	7.13	2'
R202	0+78	6' MH w Wier	933.59	12" W 930.00 12" E 930.00 12" S 926.90 48" N 926.90	8.69	2'
R204	1+98	6' Storm MH	938.70	12" N 933.00 48" S 927.25 12" E 934.16 12" W 934.07	13.45	2'
R208	3+84	4' Storm MH	944.20	12" NW 939.00 12" E 939.00 12" S 939.00	7.20	2'

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SCALE PLAN: 1" = 20'  
PROFILE: 1" = 2'

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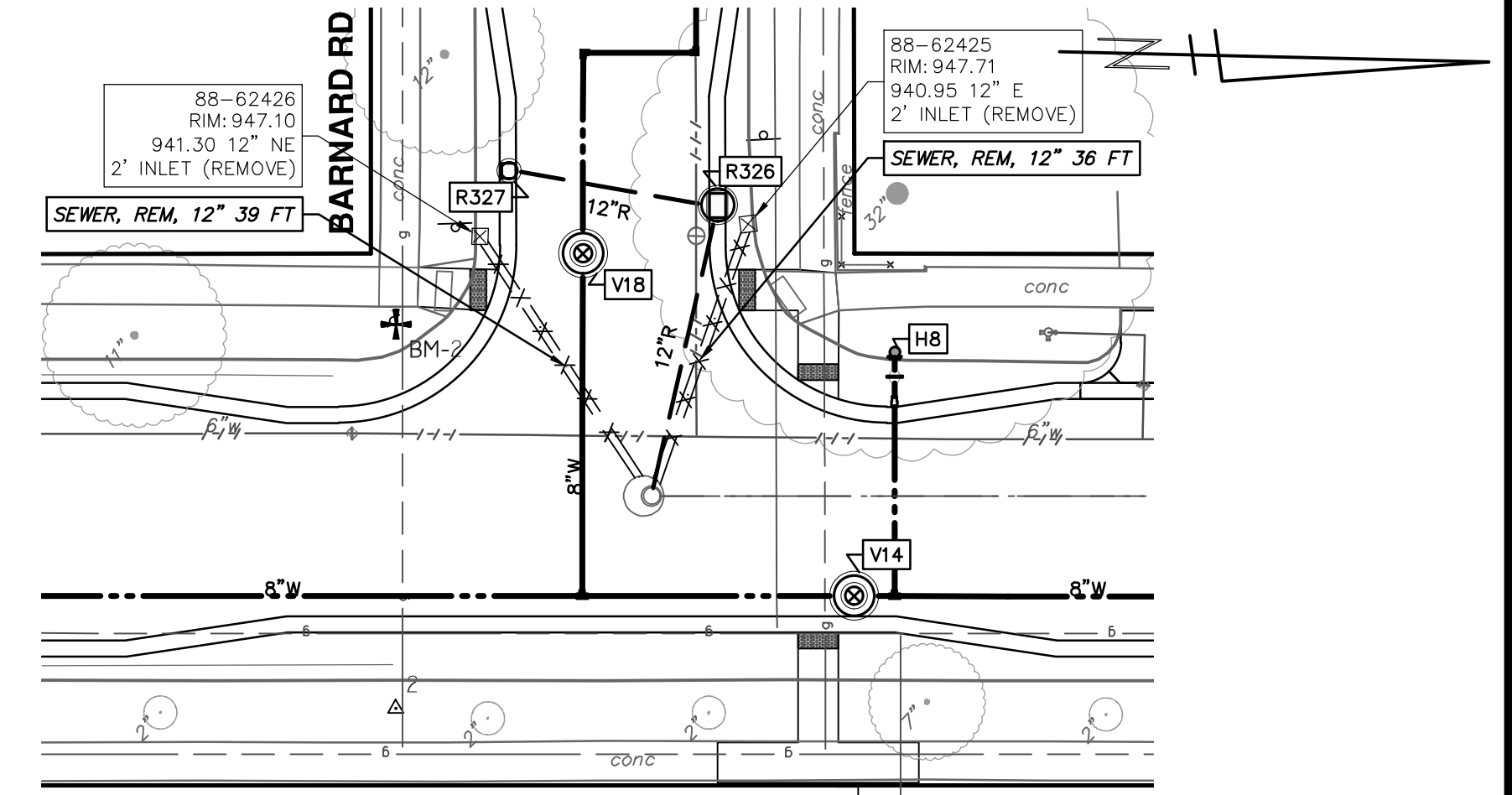
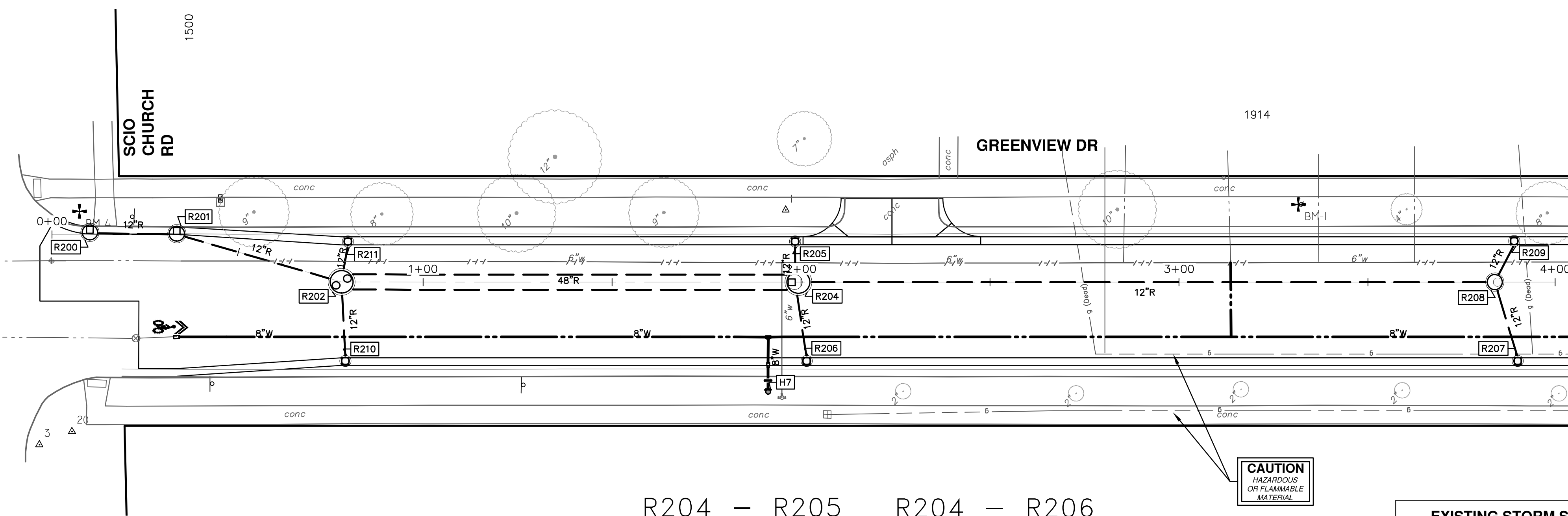
STORM SEWER PLAN & PROFILE - GREENVIEW DR NORTH

R200 R201 R202 R204 R208

DRAWING No. 2020031-44

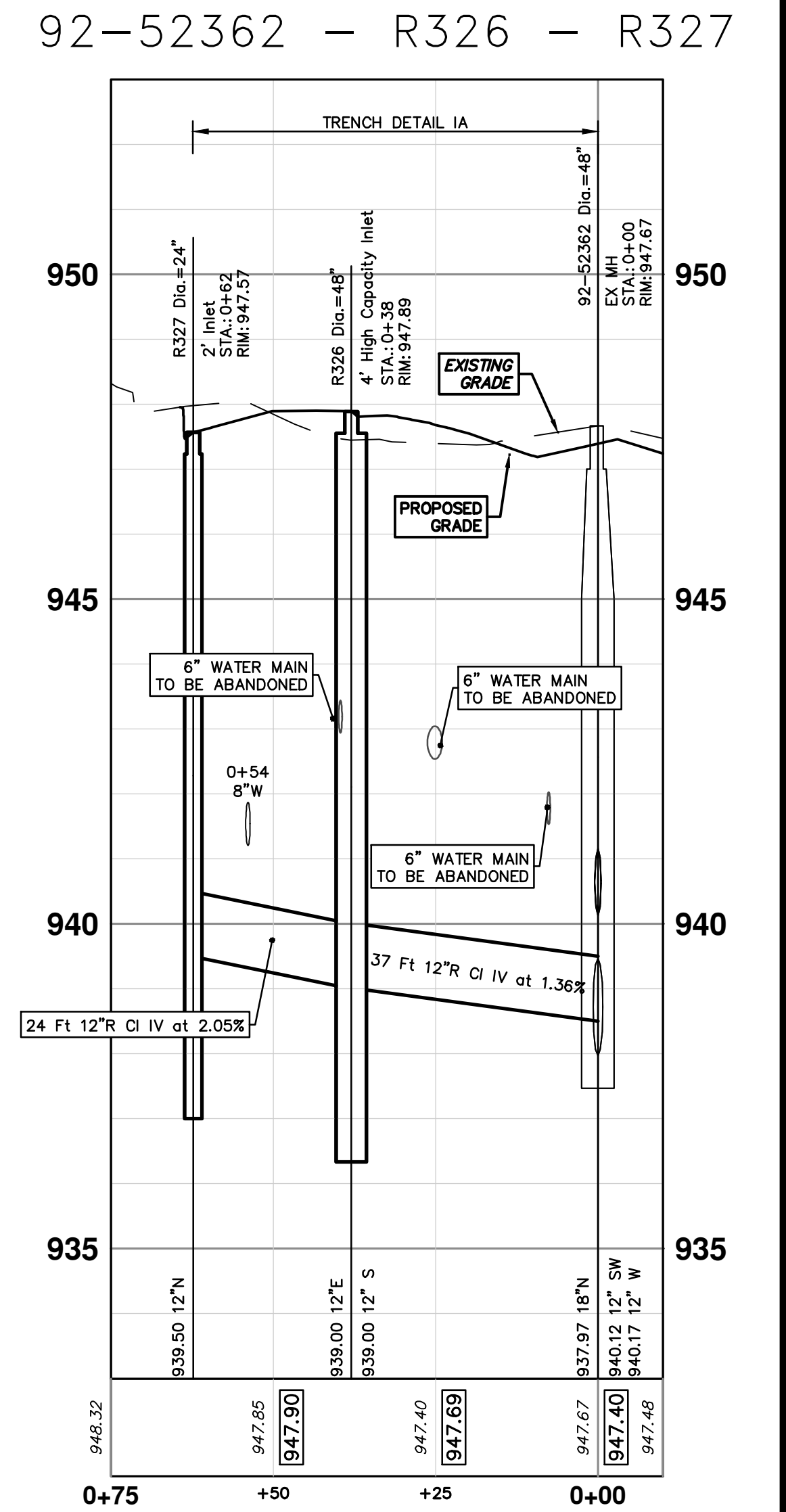
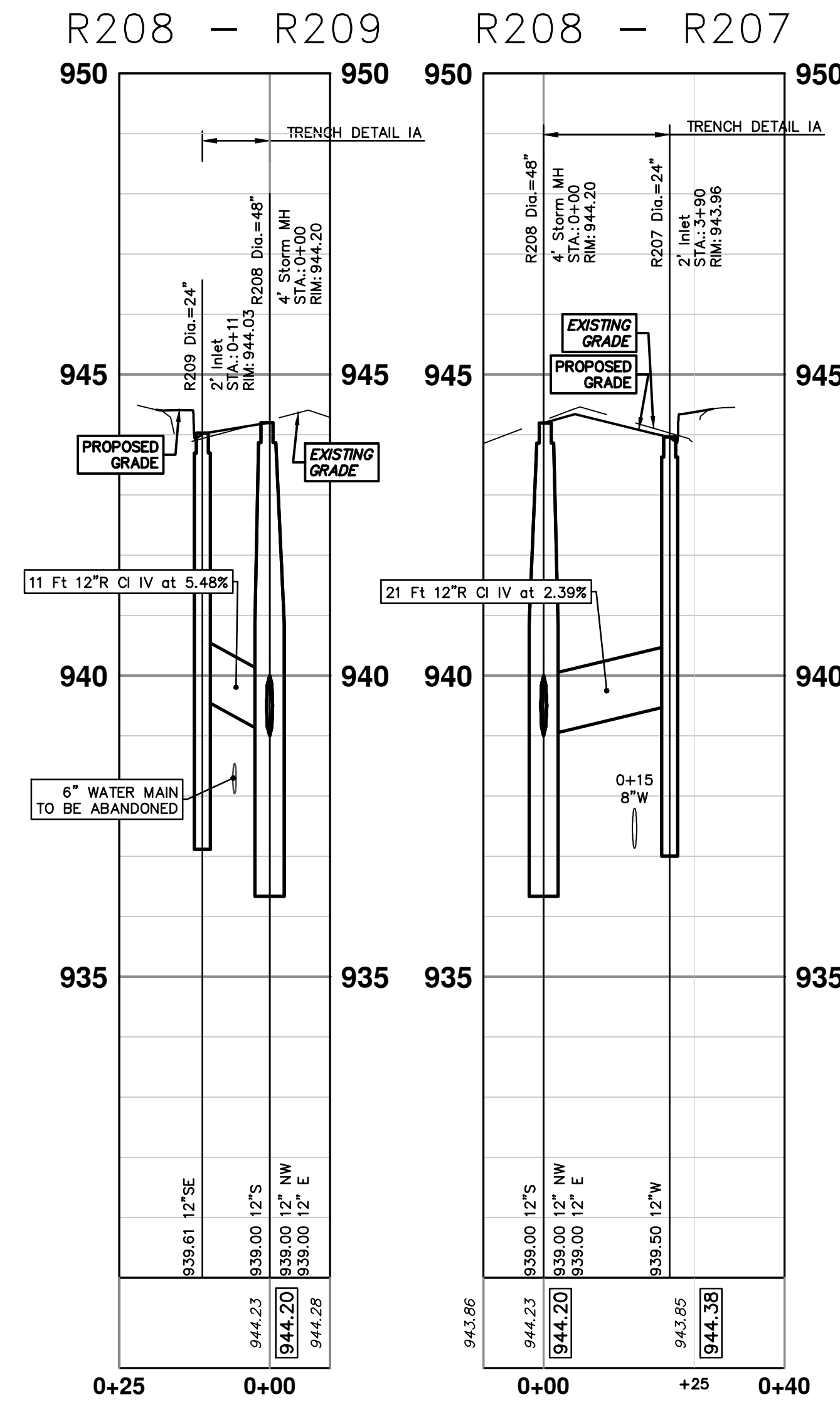
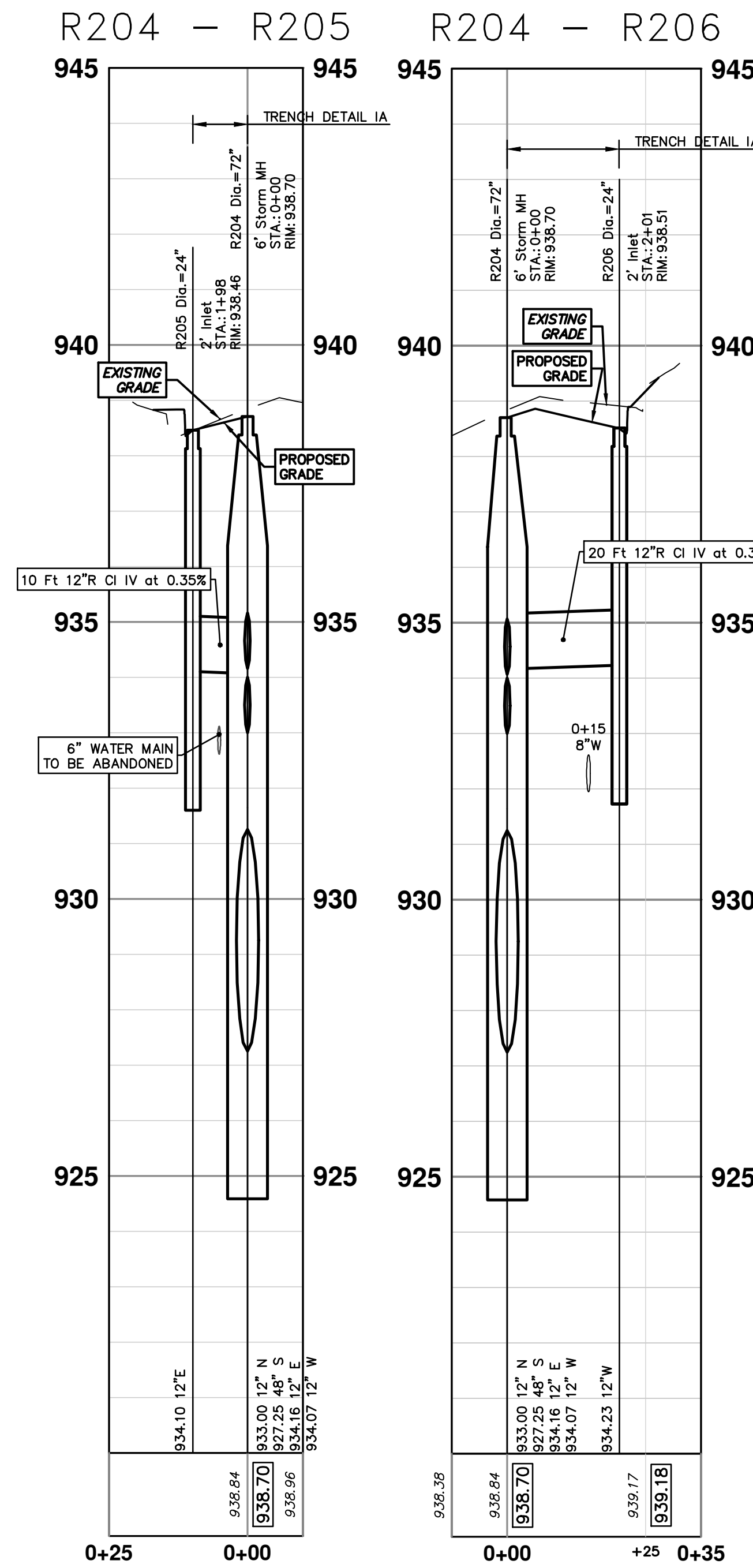
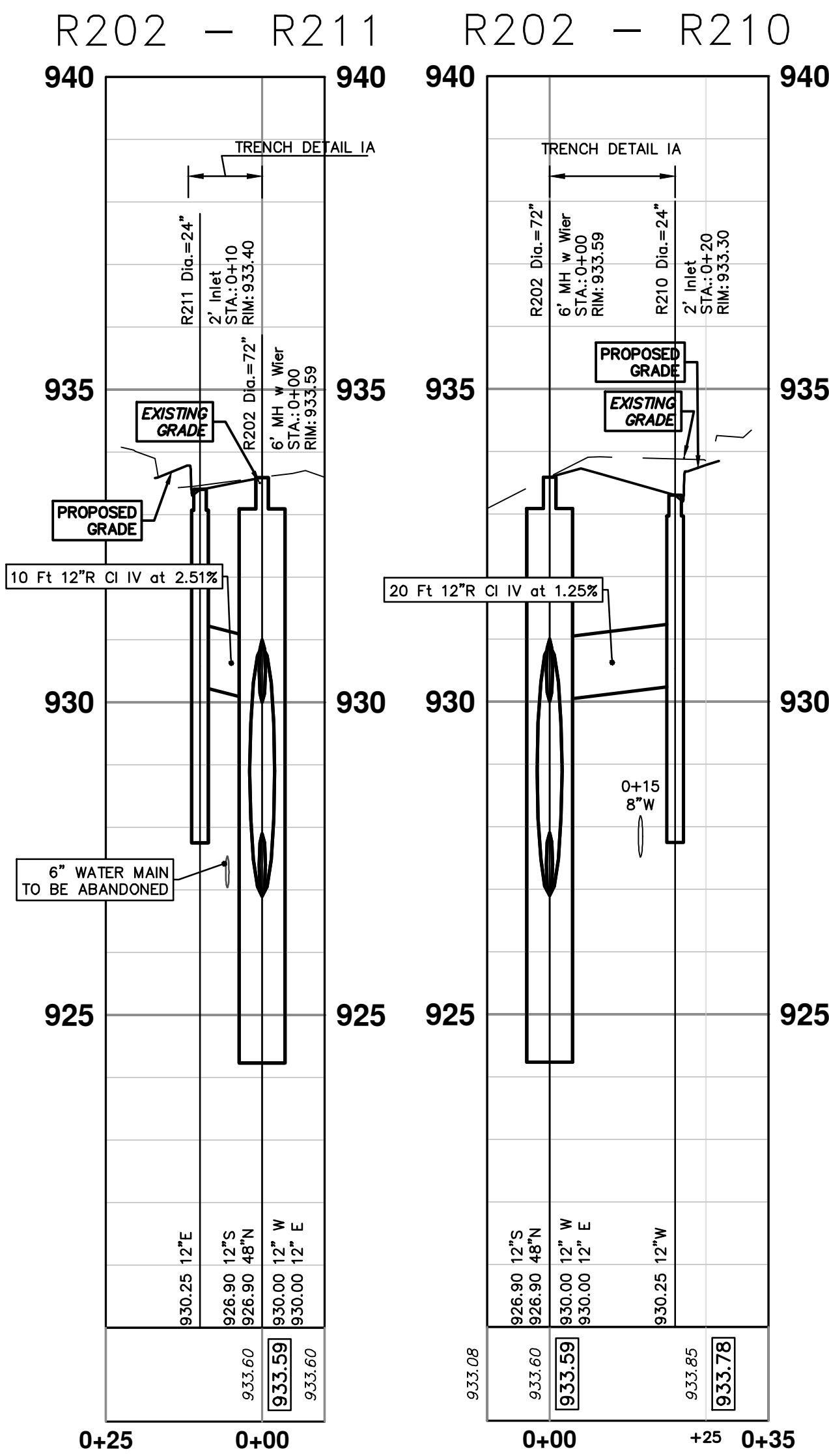
SHEET No. 44 OF 92

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STRUCTURE	UTILITY STATION	TYPE	RIM	INVERTS	DEPTH (Feet)	SUMP
R205	1+98	2' Inlet	938.46	12" E 934.10	6.36	2'
R206	2+01	2' Inlet	938.51	12" W 934.23	6.28	2'
R207	3+90	2' Inlet	943.96	12" W 939.50	6.46	2'
R209	0+11	2' Inlet	944.03	12" SE 939.61	6.41	2'
R210	0+20	2' Inlet	933.30	12" W 930.25	5.05	2'
R211	0+10	2' Inlet	933.40	12" E 930.25	5.15	2'
R326	0+38	4' High Capacity Inlet	947.89	12" S 939.00 12" E 939.00	10.89	2'
R327	0+62	2' Inlet	947.57	12" N 939.50	10.07	2'

STRUCTURE	DEPTH (Feet)	REMOVE
88-62426	5.80	2' Inlet
88-62425	6.76	2' Inlet



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PROFILE: 1" = 2'

SCALE PLAN: 1" = 20'

DRAWING NO. 2020031-45

SHEET NO. 45 OF 92

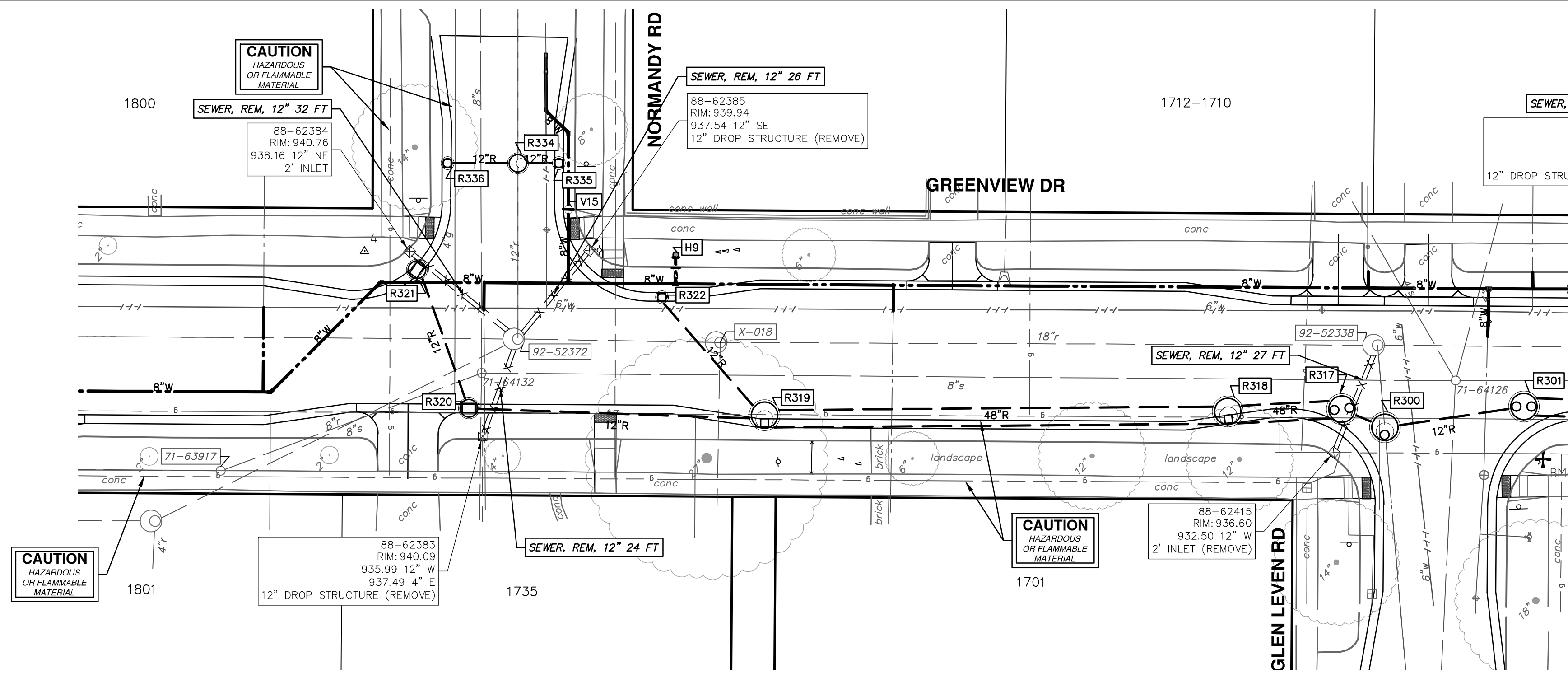
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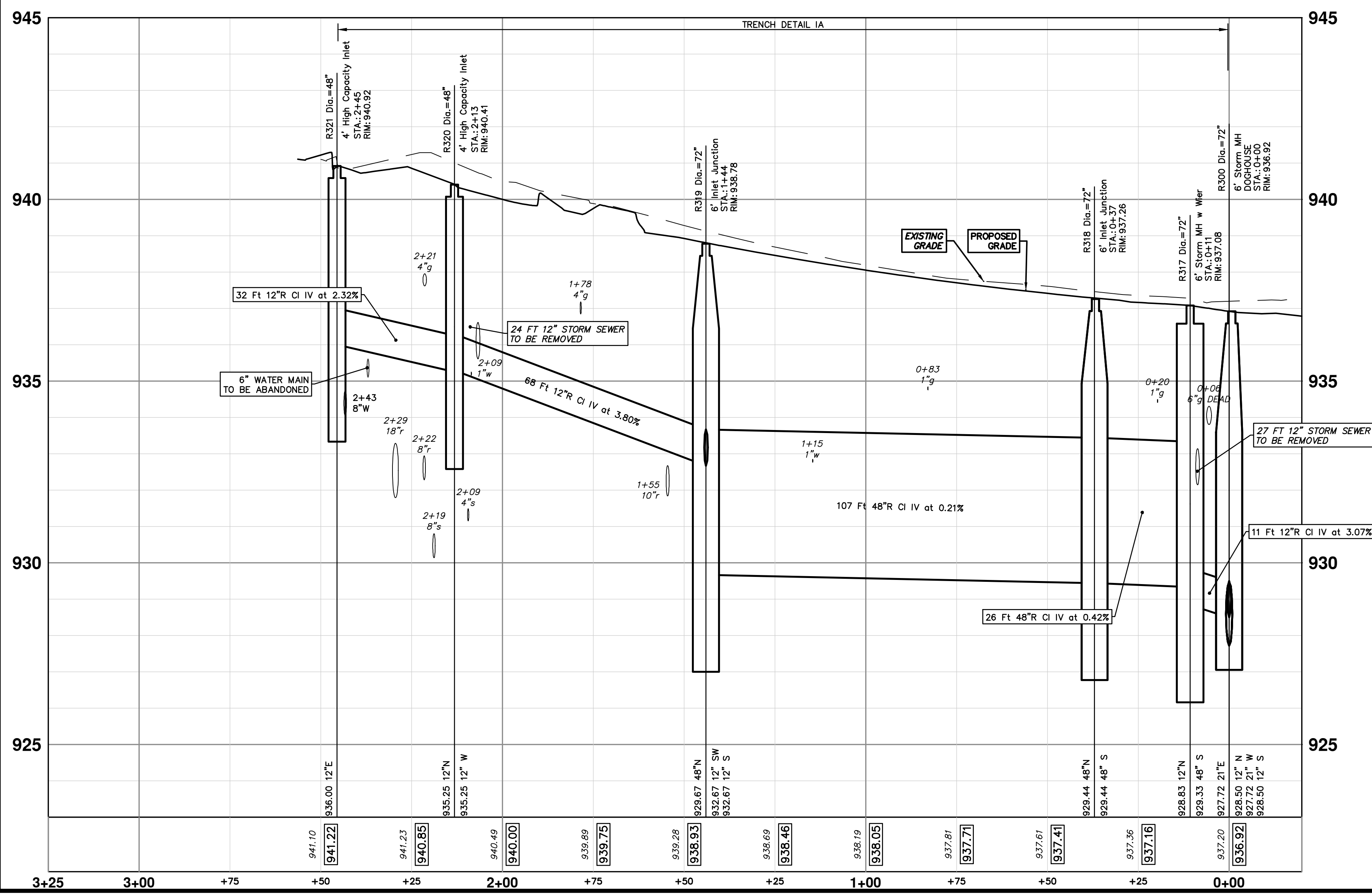
**EXISTING STORM SEWER STRUCTURE REMOVAL TABLE**

STRUCTURE	DEPTH (Feet)	REMOVE
88-62385	2.40	12" Drop Structure (Remove)
88-62383	4.10	12" Drop Structure (Remove)
88-62384	2.60	2' Inlet

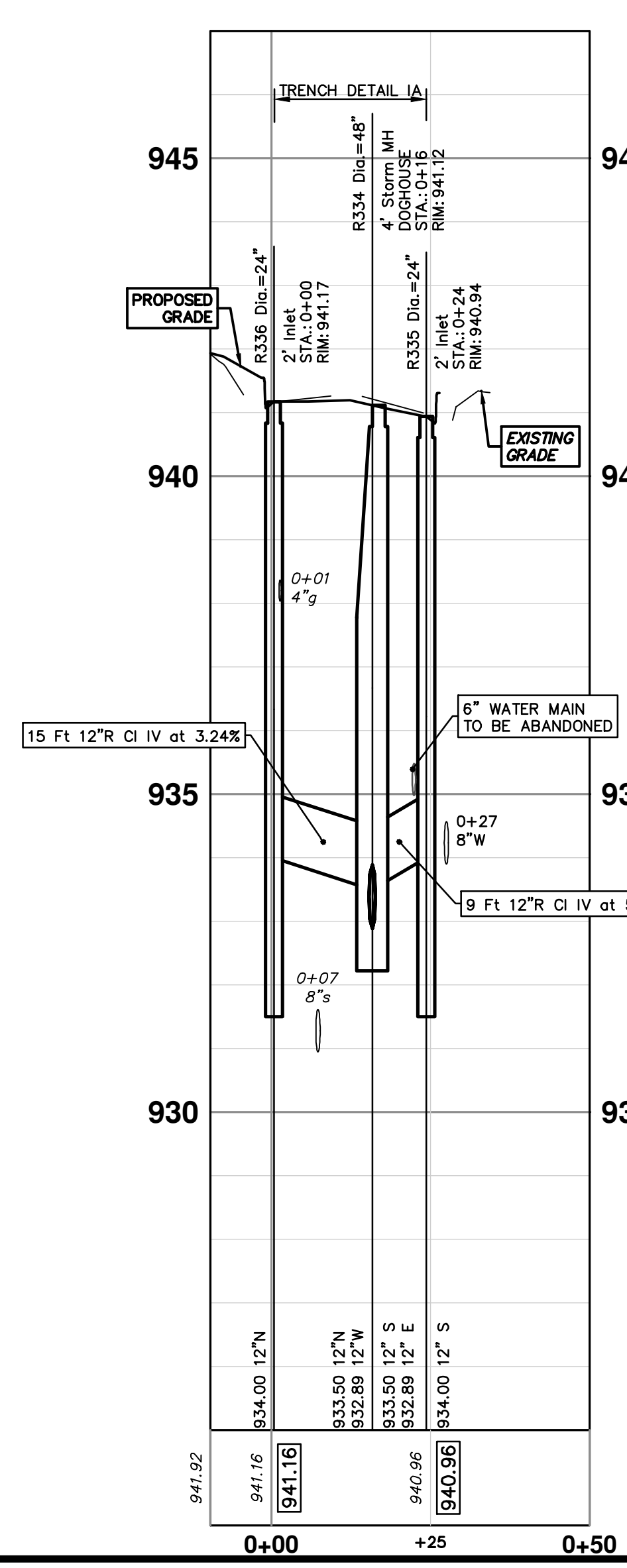
**STORM SEWER STRUCTURE TABLE**

STRUCTURE	UTILITY STATION	TYPE	RIM	INVERTS	DEPTH (Feet)	SUMP
R300	0+00	6' Storm MH DOGHOUSE	936.92	12" N 928.50 21" W 927.72 12" S 928.50 21" E 927.72	9.20	0'
R317	0+11	6' Storm MH w Wier	937.08	48" S 929.33 12" N 928.83	10.25	2'
R318	0+37	6' Inlet Junction	937.26	48" S 929.44 48" N 929.44	9.82	2'
R319	1+44	6' Inlet Junction	938.78	12" SW 932.67 12" S 932.67 48" N 929.67	11.11	2'
R320	2+13	4' High Capacity Inlet	940.41	12" W 935.25 12" N 935.25	7.16	2'
R321	2+45	4' High Capacity Inlet	940.92	12" E 936.00	6.92	2'
R322	0+36	2' Inlet	939.42	12" NE 933.50	7.92	2'
R334	0+16	4' Storm MH DOGHOUSE	941.12	12" S 933.50 12" E 932.89 12" N 933.50 12" W 932.89	8.23	0'
R335	0+24	2' Inlet	940.94	12" S 934.00	8.94	2'
R336	0+00	2' Inlet	941.17	12" N 934.00	9.17	2'

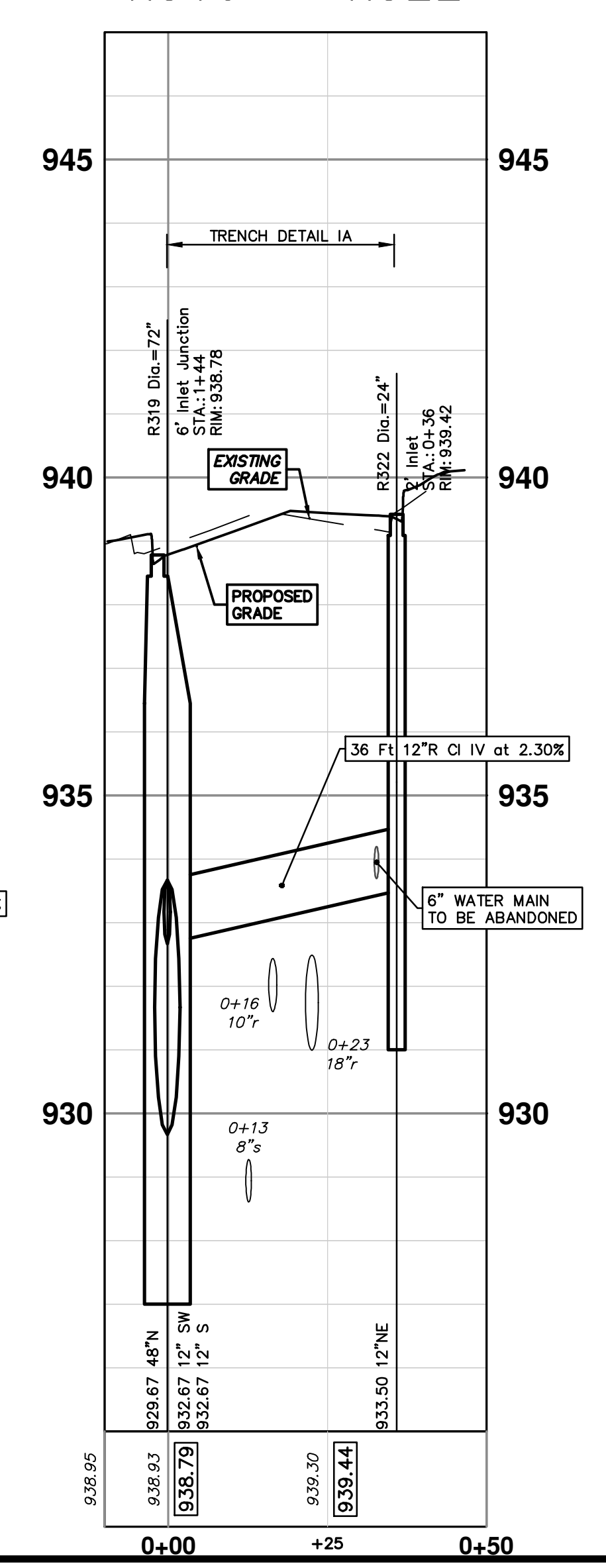
R300 - R321



R336 - R335



R319 - R322



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R300 R317 R318 R319 R320 R321 R322 R334 R335 R336

SCALE PLAN: 1" = 20'  
PROFILE: 1" = 2'

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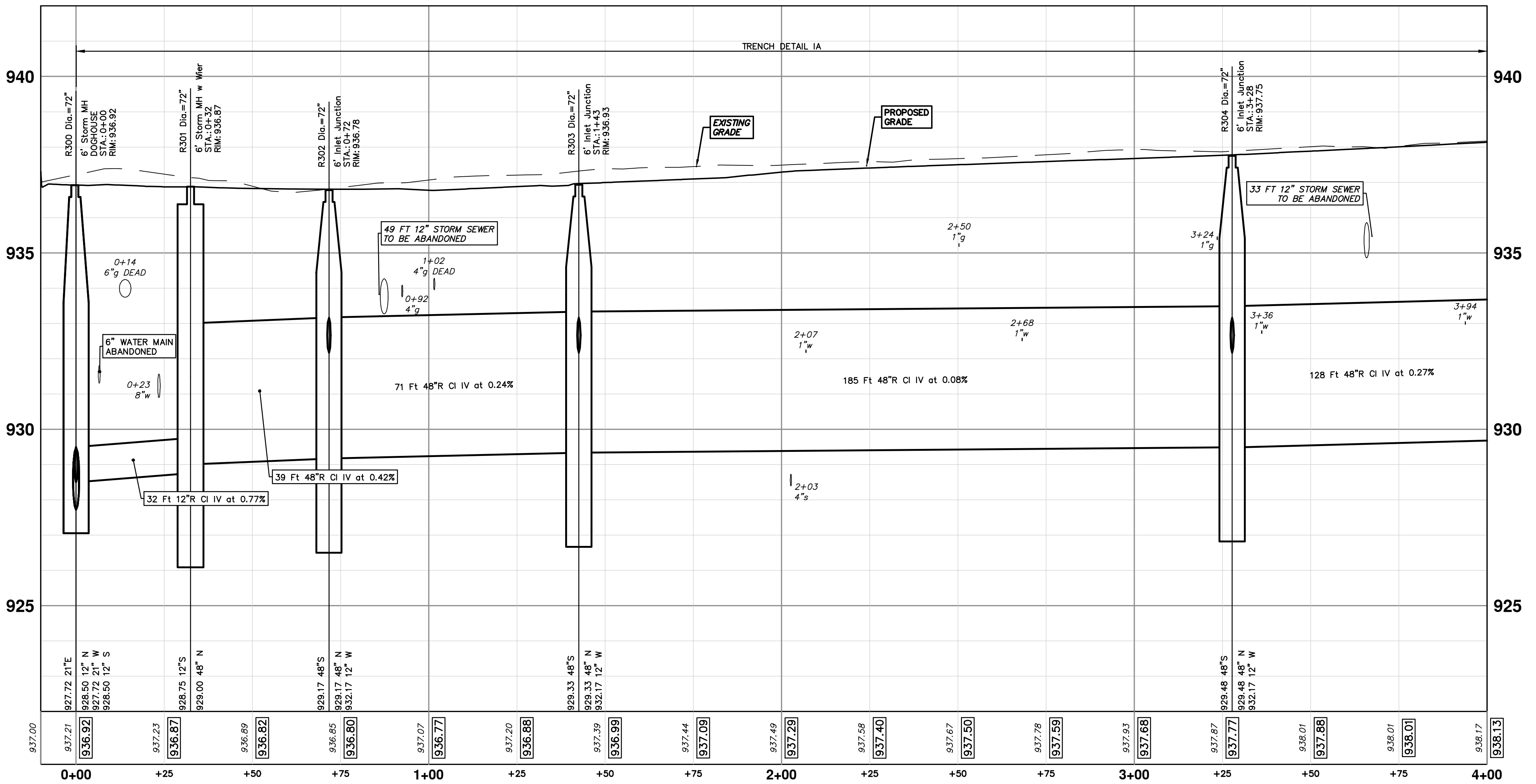
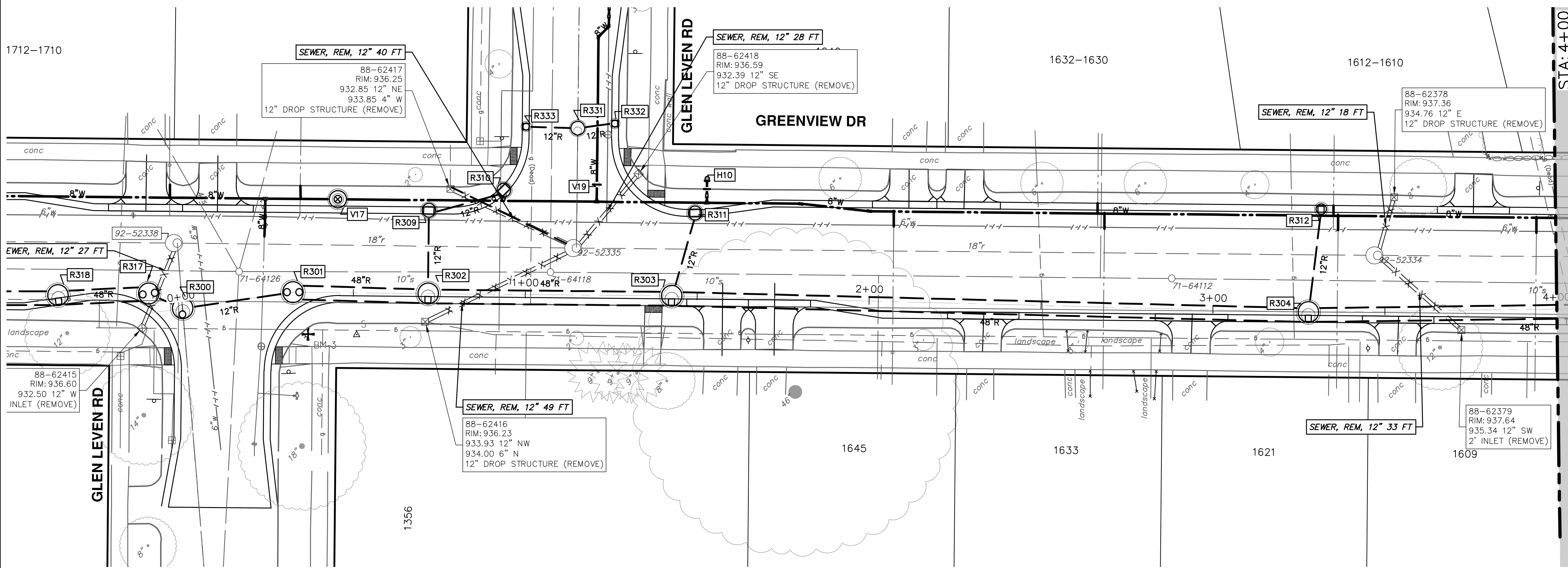
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00	BID SET	1-30-24	A2D	TA	TA	DRAWN			
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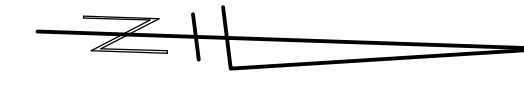
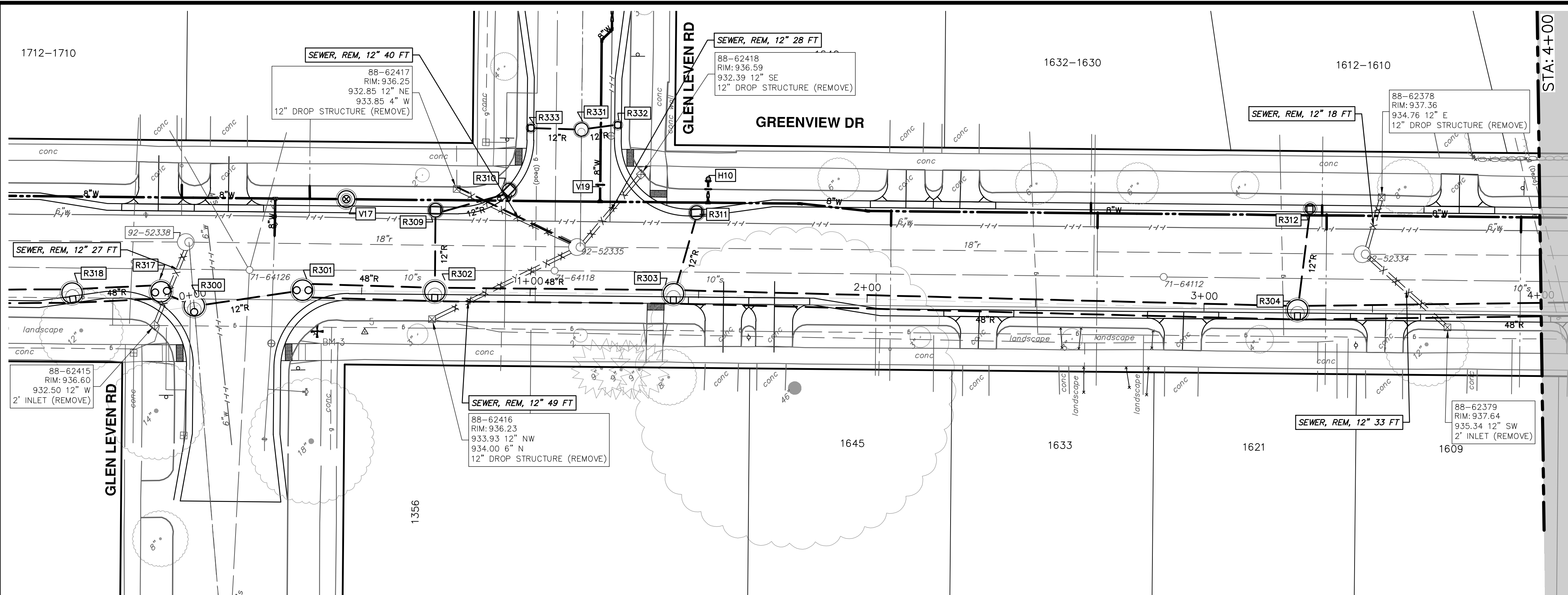
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R300 R301 R302 R303 R304

DRAWING NO. **2020031-47**

SHEET NO. **47 OF 92**

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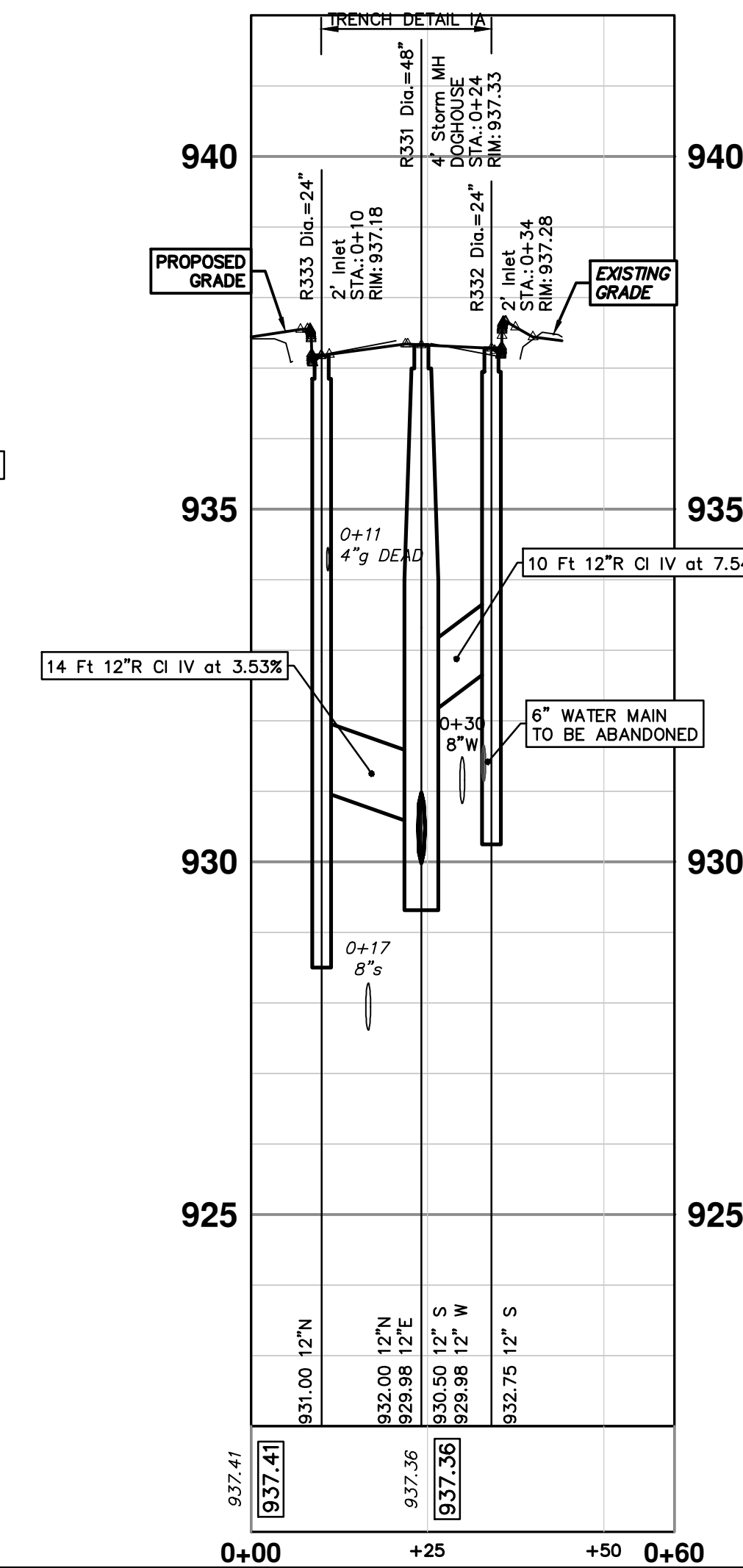
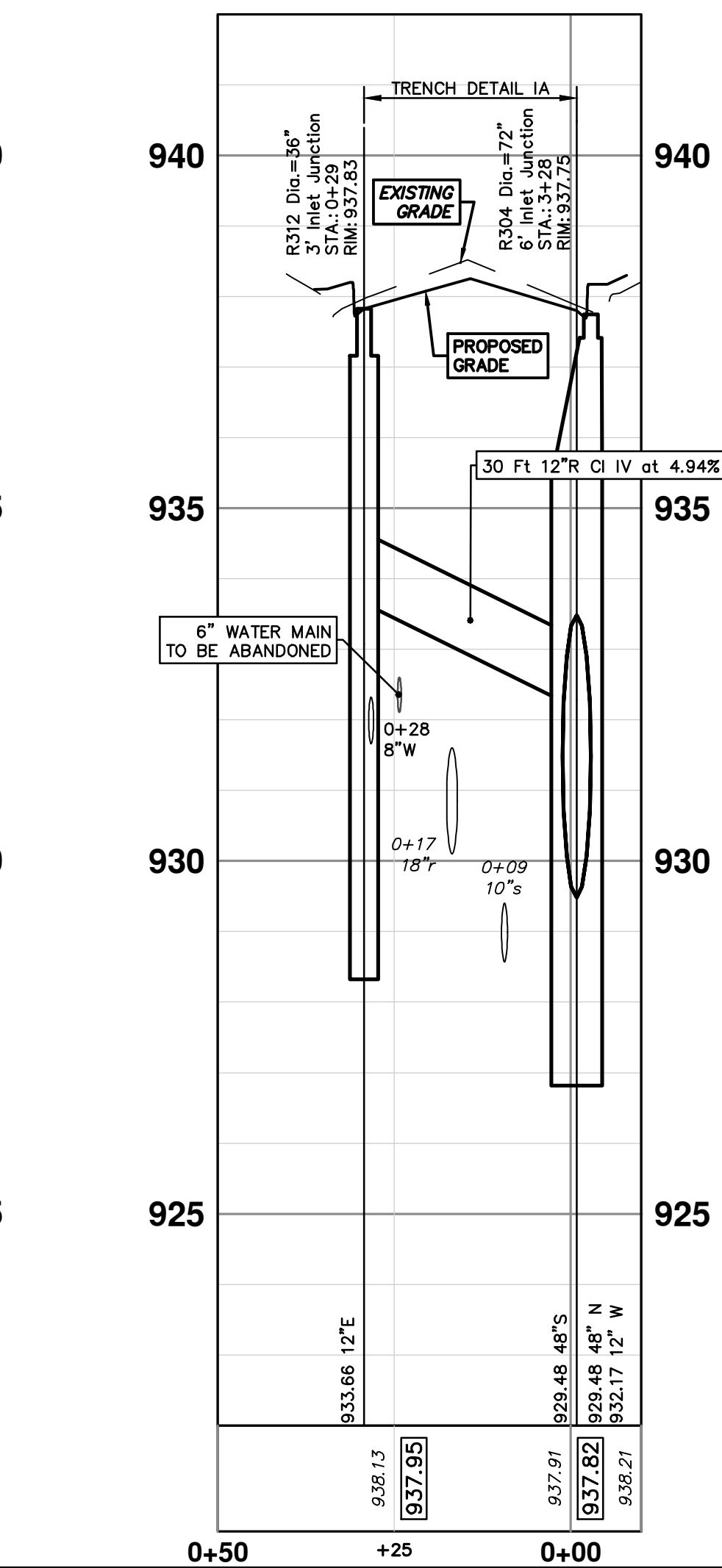
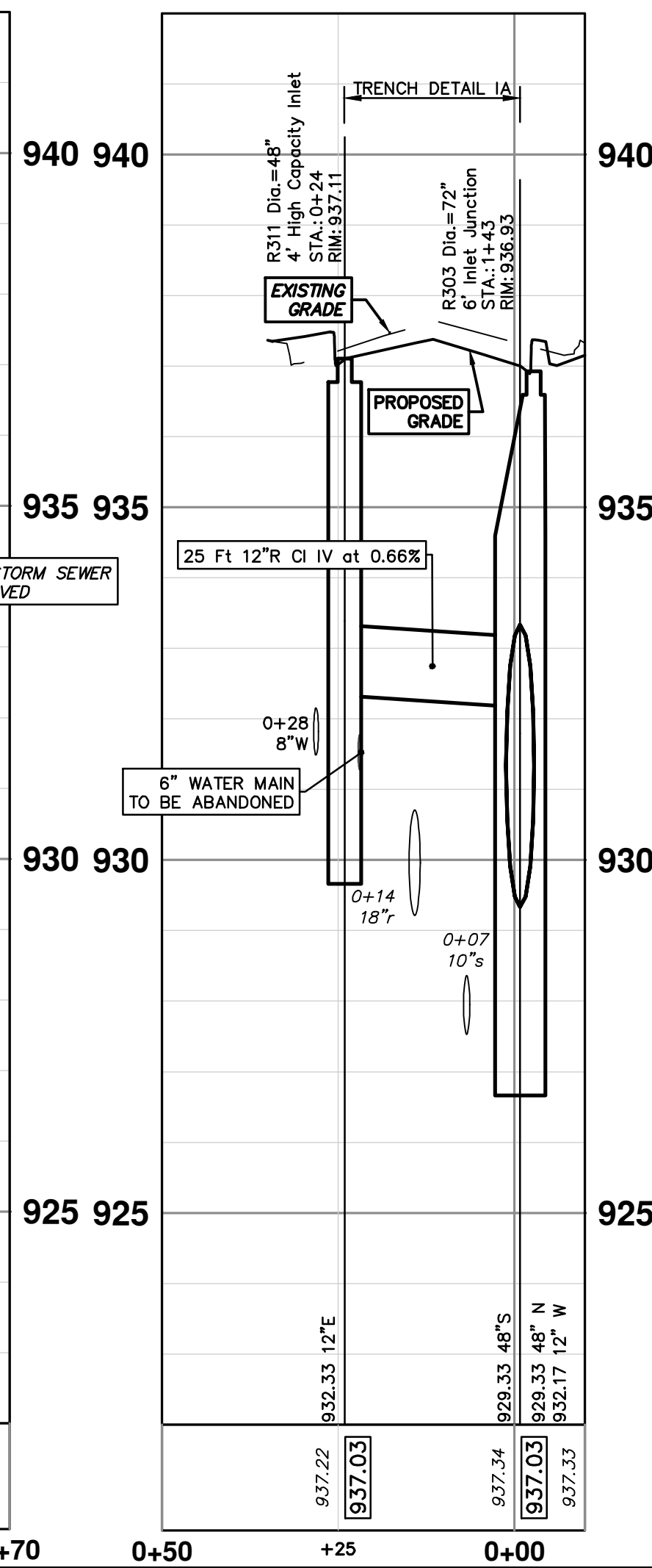
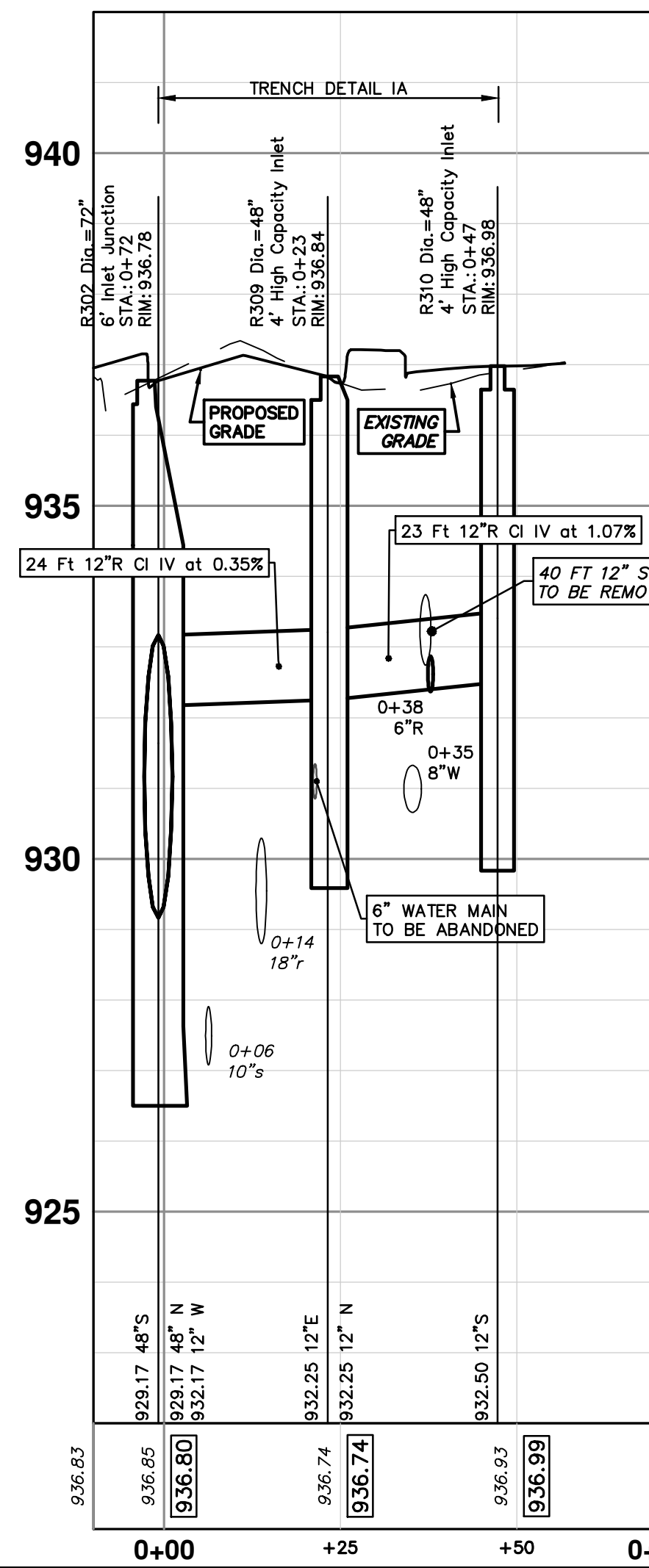
STRUCTURE	DEPTH (Feet)	REMOVE
88-62416	2.30	12" Drop Structure (Remove)
88-62417	3.40	12" Drop Structure (Remove)
88-62418	4.20	12" Drop Structure (Remove)
88-62415	4.10	2' Inlet
88-62378	2.60	12" Drop Structure (Remove)
88-62379	2.30	2' Inlet (Remove)

R302 - R310

R303 - R311

R304 - R312

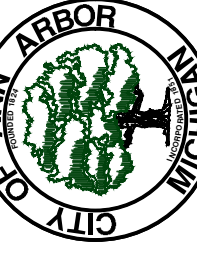
R331 - R333



STRUCTURE	UTILITY STATION	TYPE	RIM	INVERTS	DEPTH (Feet)	SUMP
R309	0+23	4' High Capacity Inlet	936.84	12" N 932.25 12" E 932.25	6.59	2'
R310	0+47	4' High Capacity Inlet	936.98	12" S 932.50	6.48	2'
R311	0+24	4' High Capacity Inlet	937.11	12" E 932.33	6.78	2'
R312	0+29	3' Inlet Junction	937.83	12" E 933.66	9.00	5'
R331	0+24	4' Storm MH DOGHOUSE	937.33	12" S 930.50 12" W 929.98 12" E 929.98	7.35	0'
R332	0+34	2' Inlet	937.28	12" S 932.75	6.53	2'
R333	0+10	2' Inlet	937.18	12" N 931.00	8.18	2'



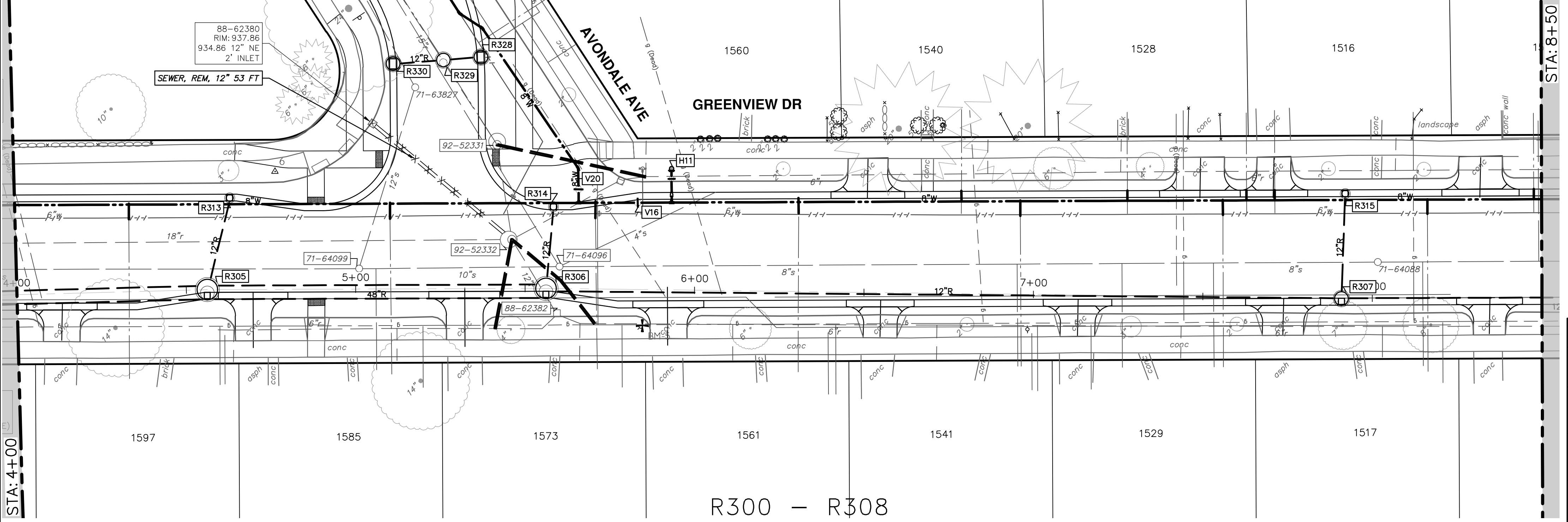
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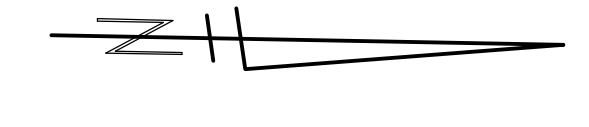
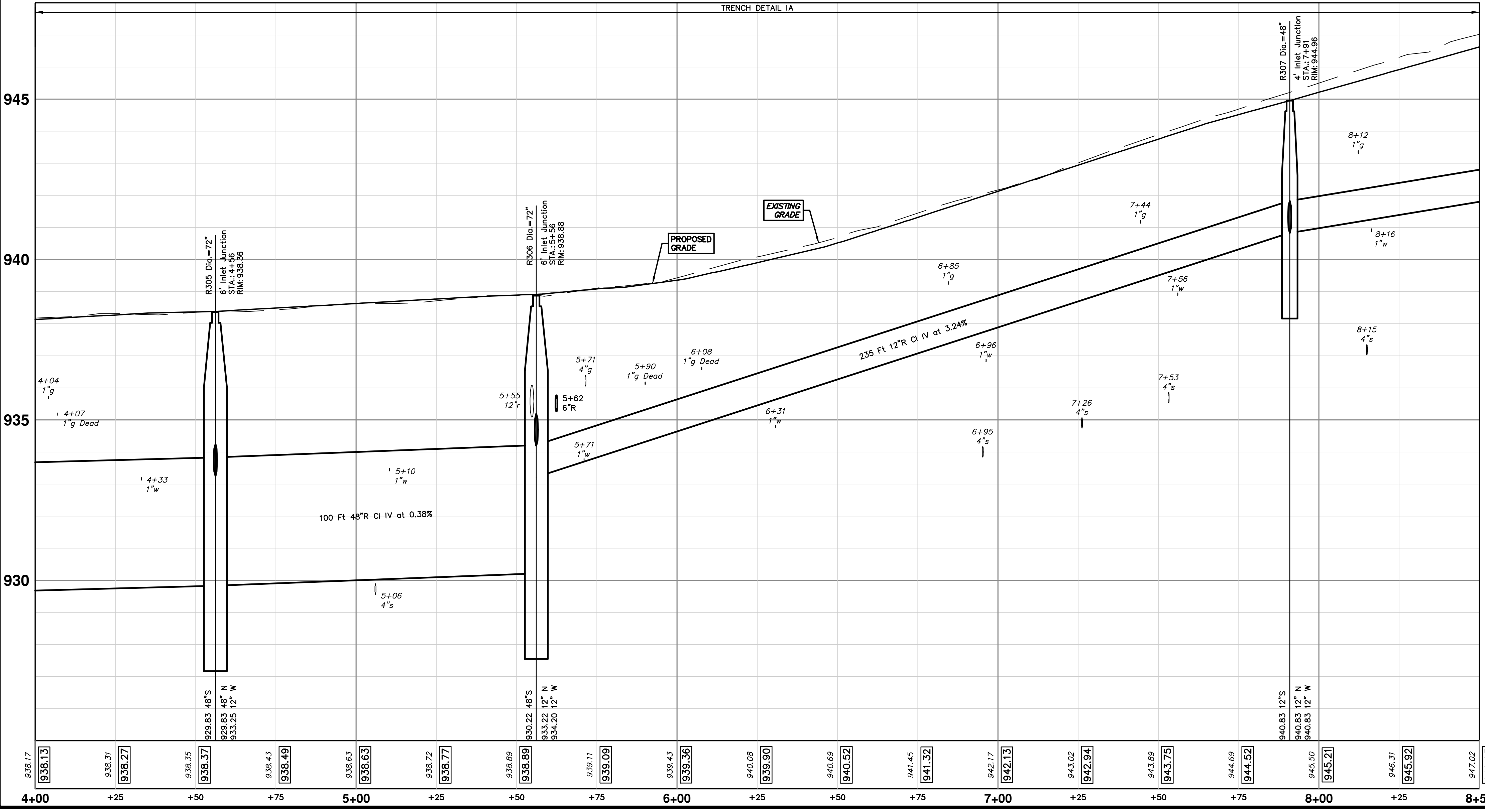
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R309 R310 R311 R312 R331 R332 R333

SCALE PLAN: 1" = 20'  
PROFILE: 1" = 2'  
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STRUCTURE	UTILITY STATION	TYPE	RIM	INVERTS	DEPTH (Feet)	SUMP
R305	4+56	6' Inlet Junction	938.36	48" N 929.83 12" W 933.25 48" S 929.83	10.53	2'
R306	5+56	6' Inlet Junction	938.88	12" N 933.22 12" W 934.20 48" S 930.22	10.66	2'
R307	7+91	4' Inlet Junction	944.96	12" N 940.83 12" W 940.83 12" S 940.83	6.13	2'



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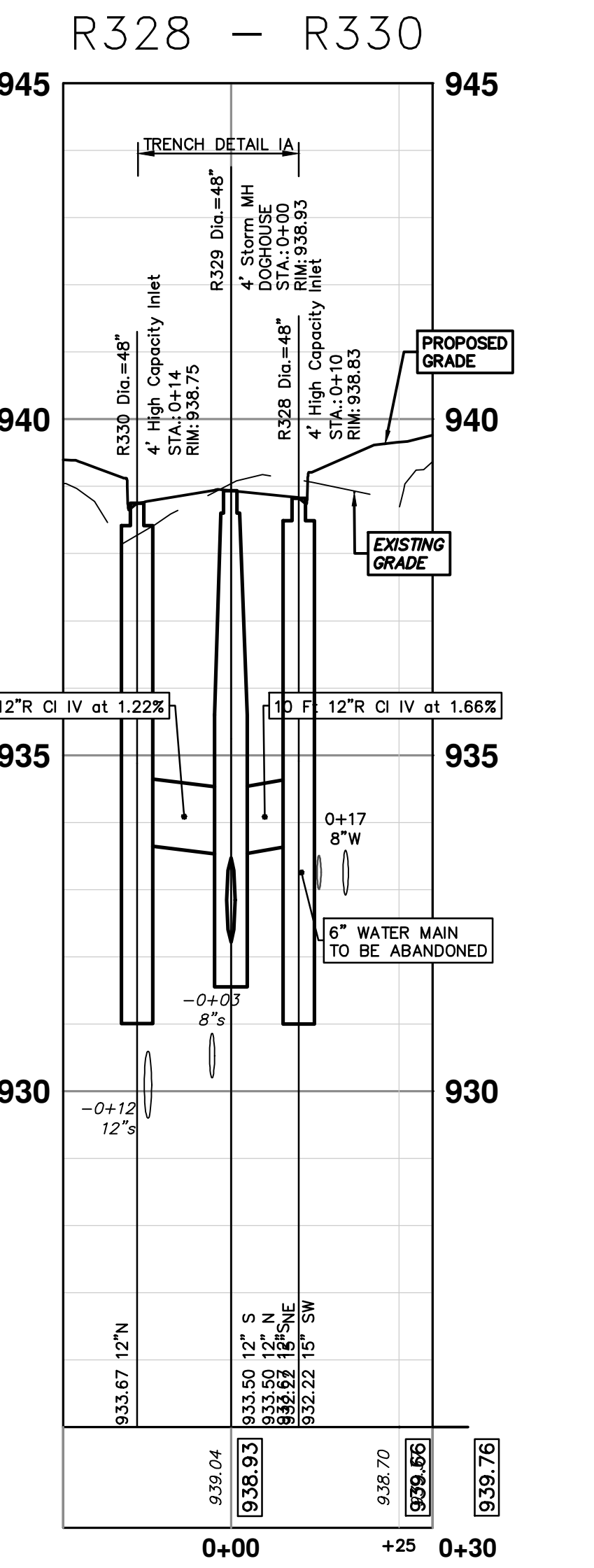
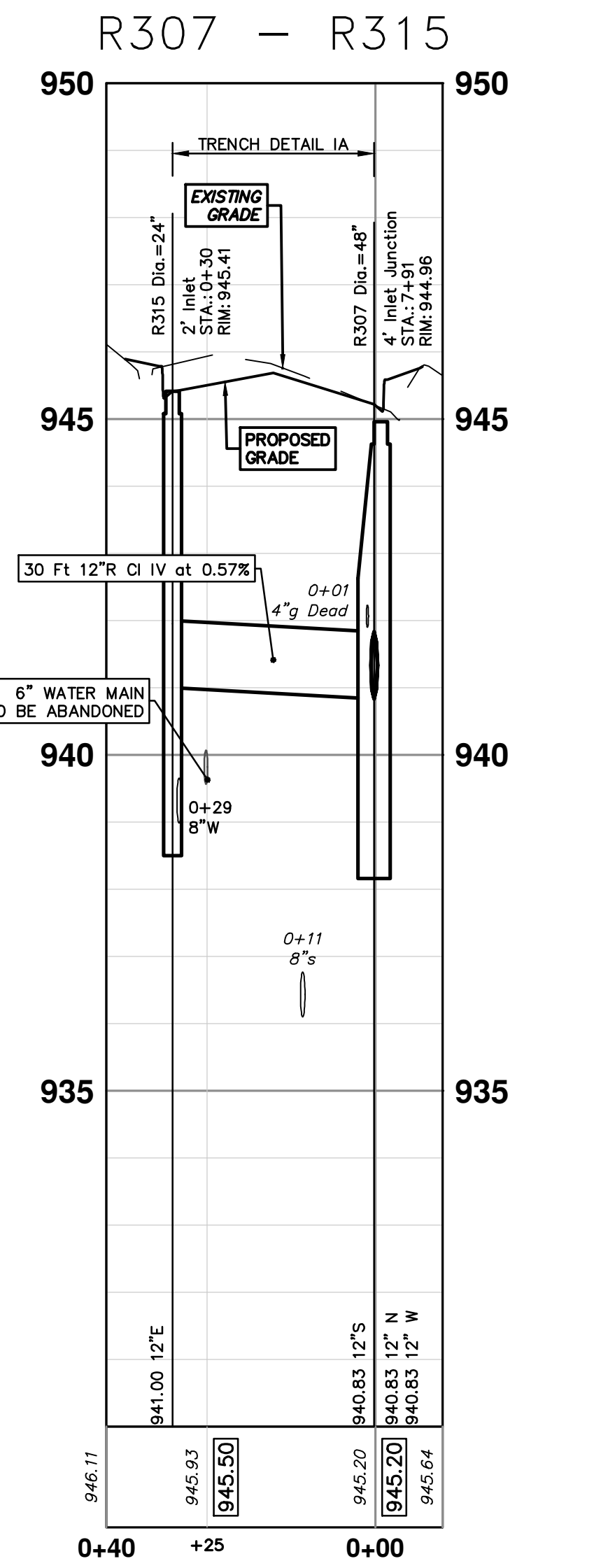
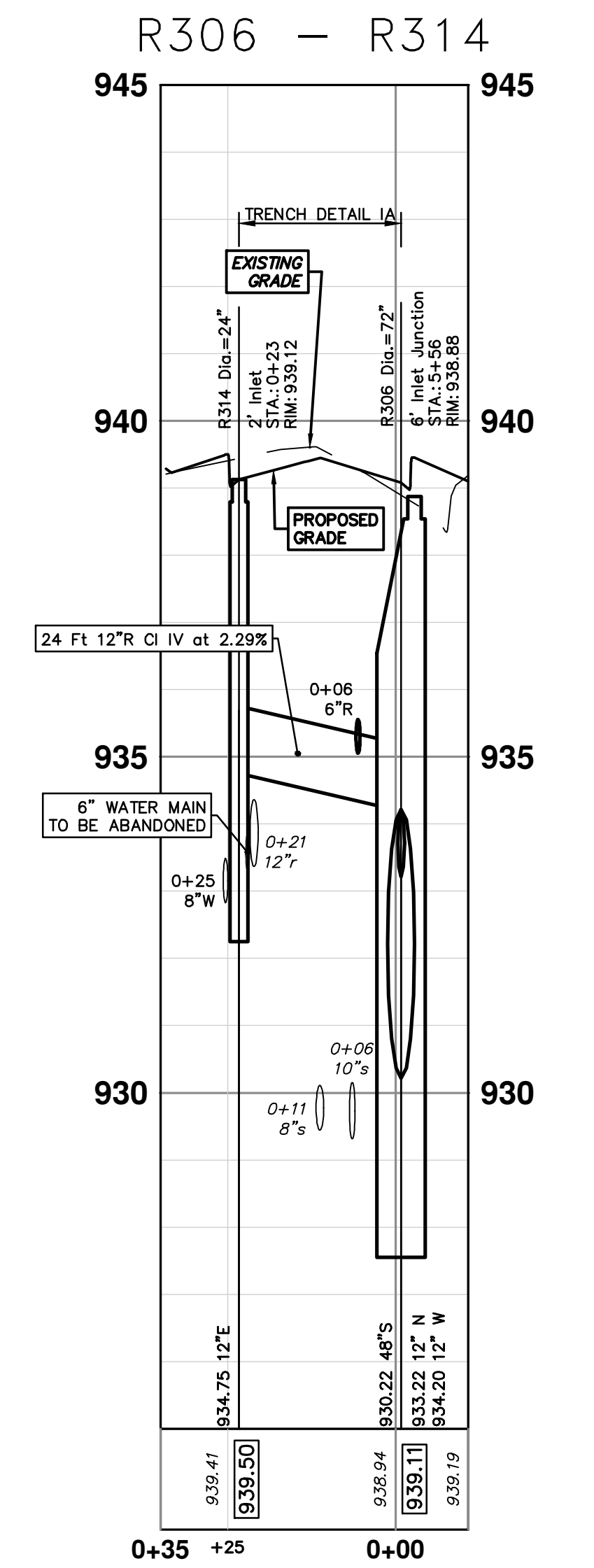
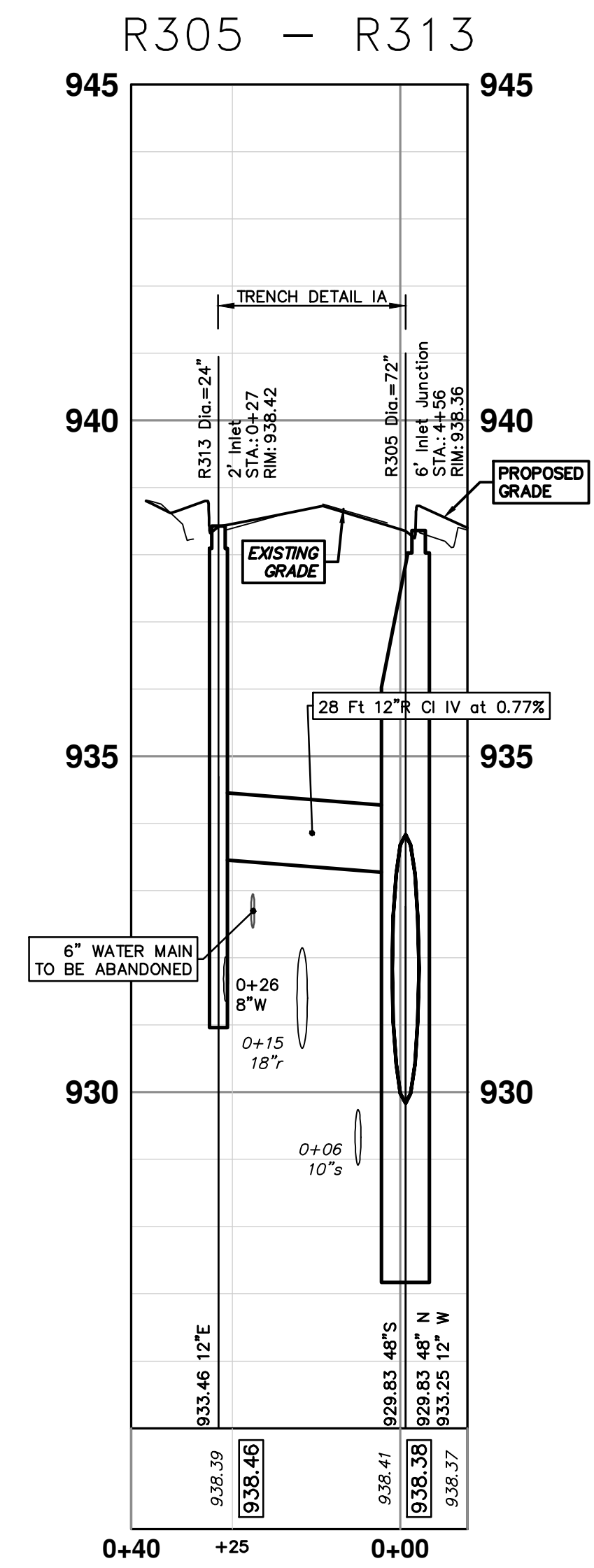
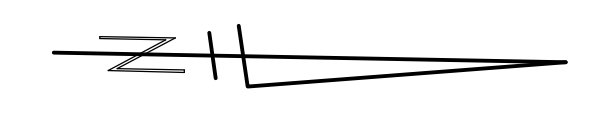
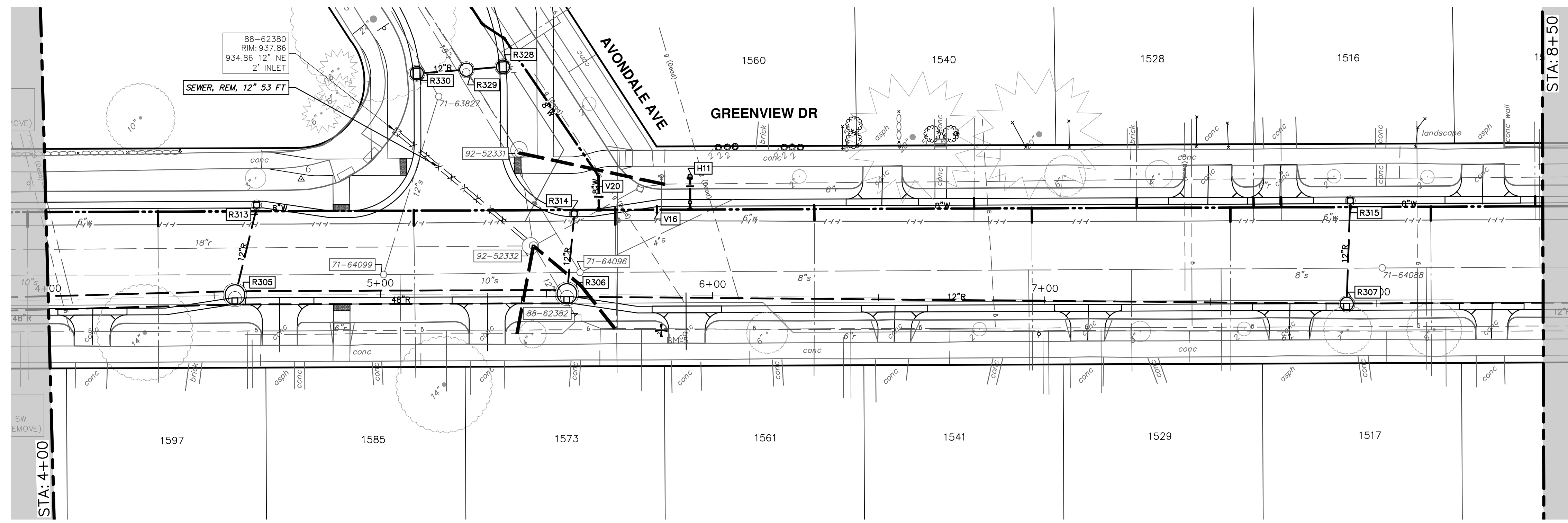
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 R305 R306 R307

SCALE PLAN: 1" = 20'  
 PROFILE: 1" = 2'  
 DRAWING No. 2020031-49  
 SHEET No. 49 OF 92

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STORM SEWER STRUCTURE TABLE						
STRUCTURE	UTILITY STATION	TYPE	RIM	INVERTS	DEPTH (Feet)	SUMP
R313	0+27	2' Inlet	938.42	12" E 933.46	6.96	2'
R314	0+23	2' Inlet	939.12	12" E 934.75	6.37	2'
R315	0+30	2' Inlet	945.41	12" E 941.00	6.41	2'
R328	0+10	4' High Capacity Inlet	938.83	12" S 933.50 12" N 933.50 15" NE 932.22 15" SW 932.22	7.16	2'
R329	0+00	4' Storm MH DOGHOUSE	938.93		6.71	0'
R330	0+14	4' High Capacity Inlet	938.75	12" N 933.67	7.08	2'

EXISTING STORM SEWER STRUCTURE REMOVAL TABLE		
STRUCTURE	DEPTH (Feet)	REMOVE
88-62380	3.00	2' Inlet

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R313 R314 R315 R328 R329 R330

SCALE PLAN: 1" = 20'  
PROFILE: 1" = 2'

DRAWING NO. 2020031-50

SHEET NO. 50 OF 92

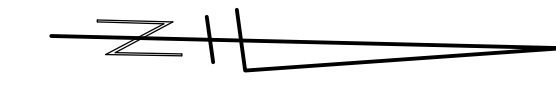
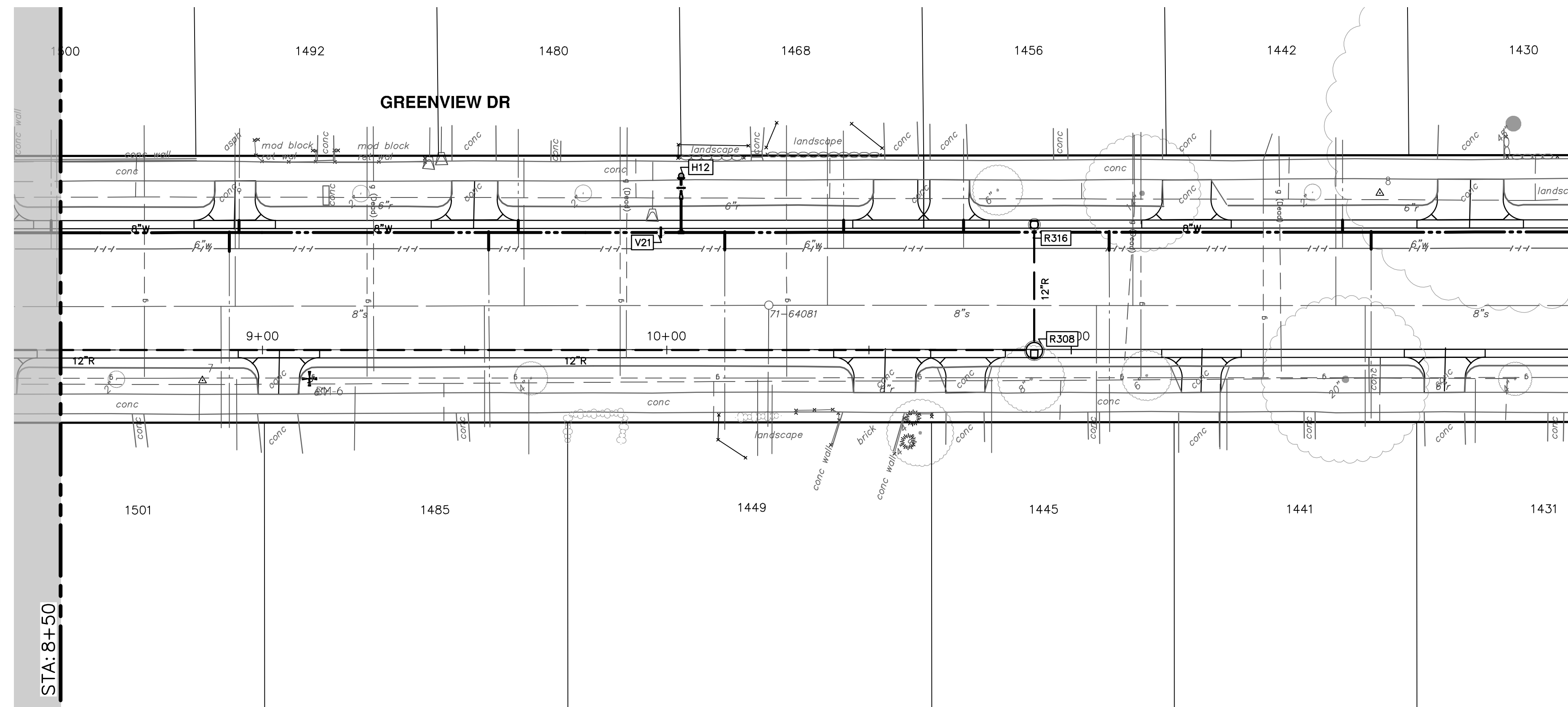
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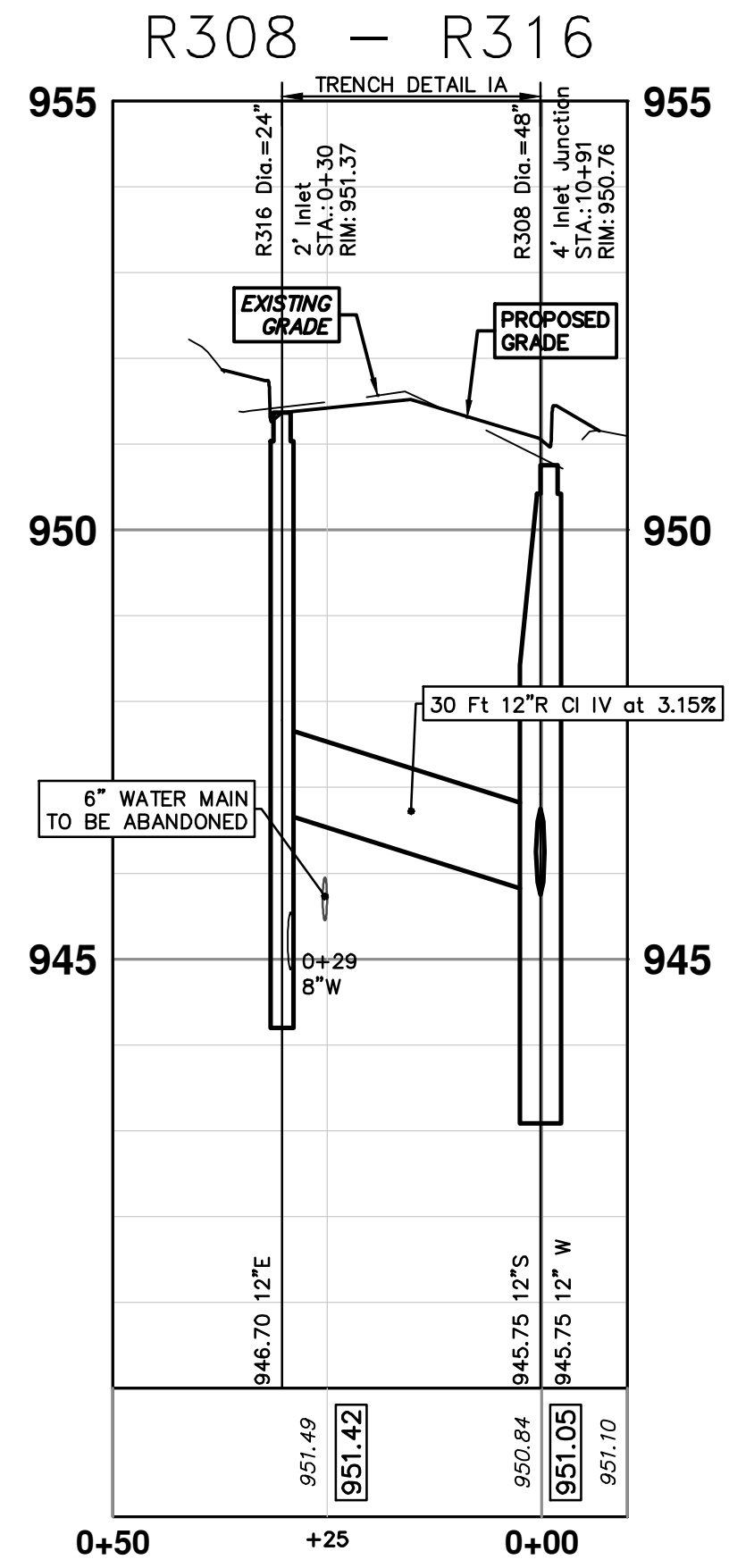
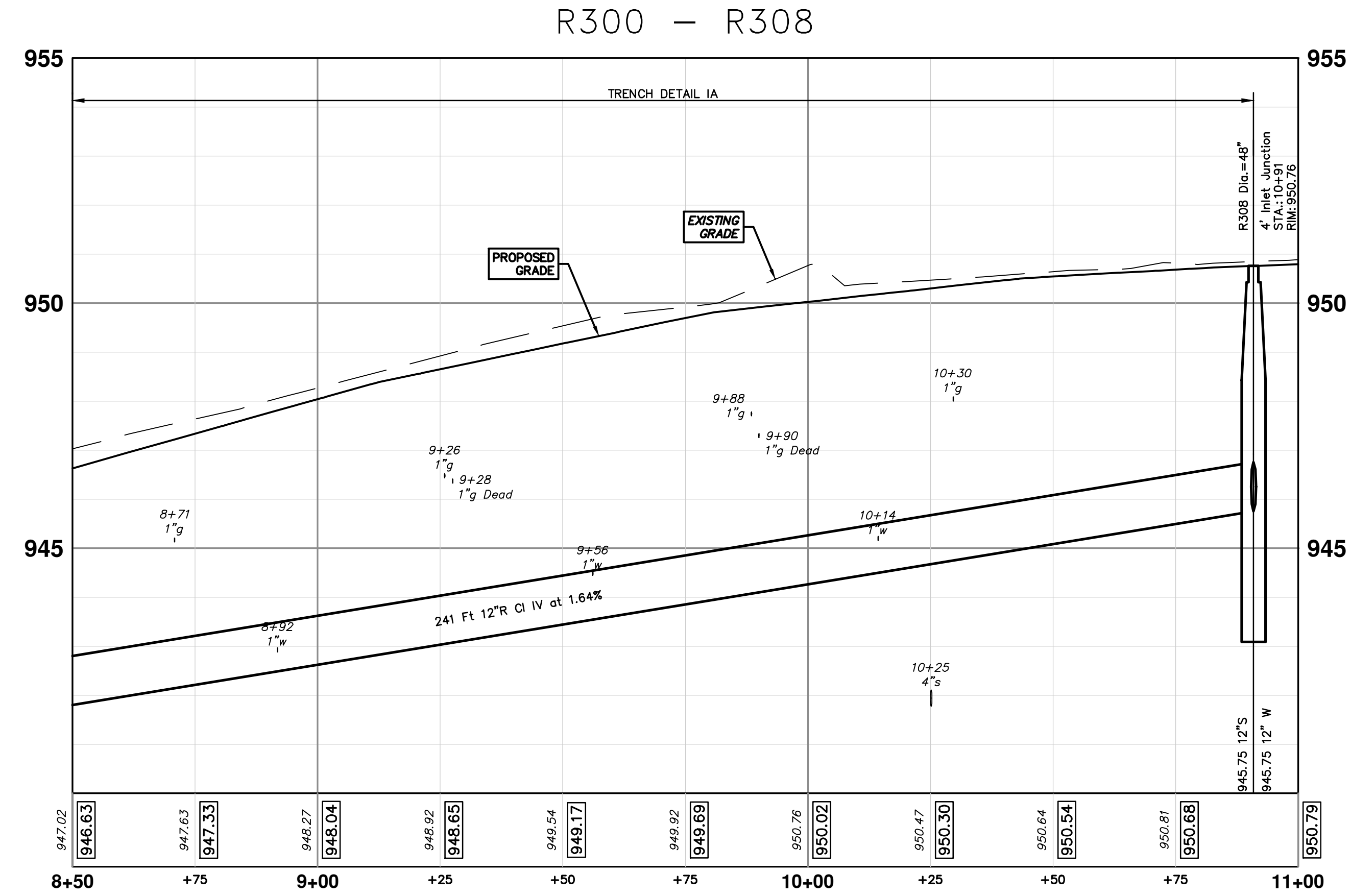
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STRUCTURE	UTILITY STATION	TYPE	RIM	INVERTS	DEPTH (Feet)	SUMP
R308	10+91	4' Inlet Junction	950.76	12" W 945.75 12" S 945.75	7.01	2'
R316	0+30	2' Inlet	951.37	12" E 946.70	6.67	2'



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PROFILE: 1" = 2'

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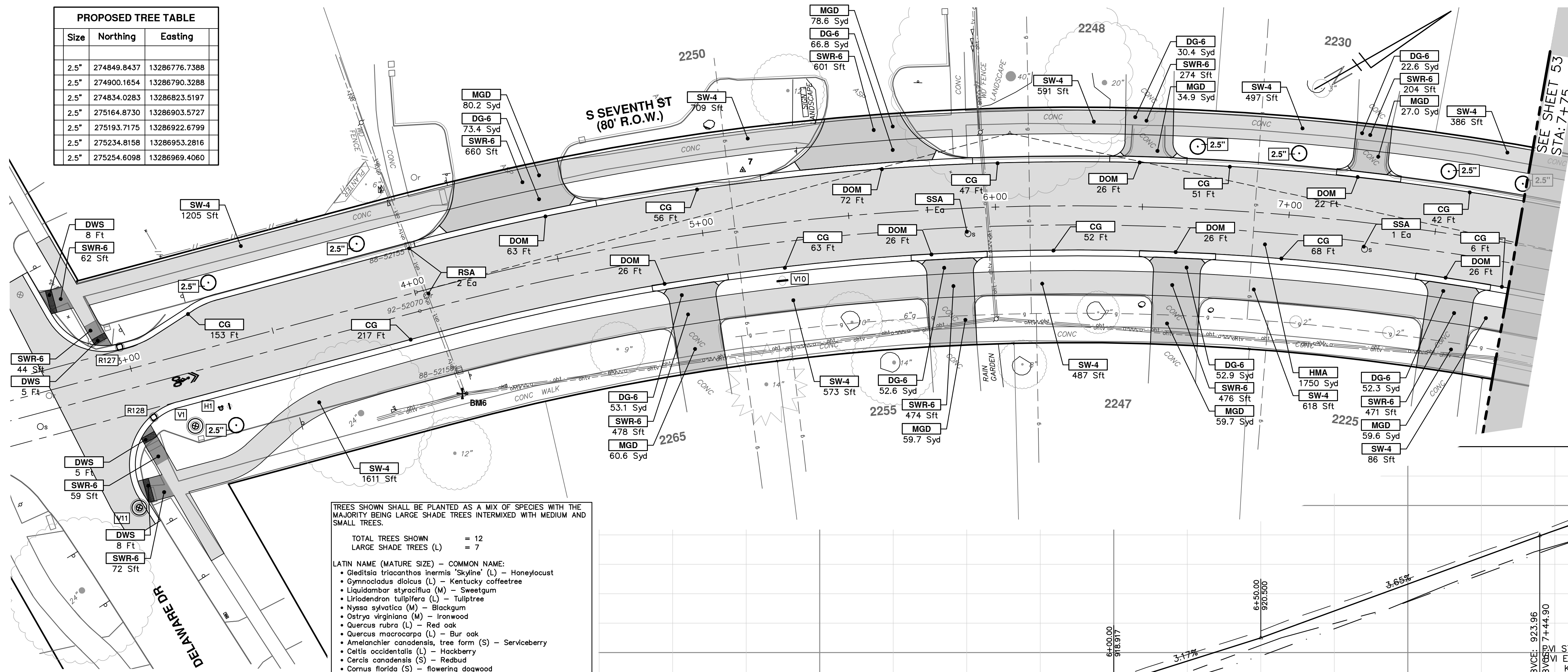
R308 R316

DRAWING No. 2020031-51

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PROPOSED TREE TABLE		
Size	Northing	Easting
2.5"	274849.8437	13286776.7388
2.5"	274900.1654	13286790.3288
2.5"	274834.0283	13286823.5197
2.5"	275164.8730	13286903.5727
2.5"	275193.7175	13286922.6799
2.5"	275234.8158	13286953.2816
2.5"	275254.6098	13286969.4080



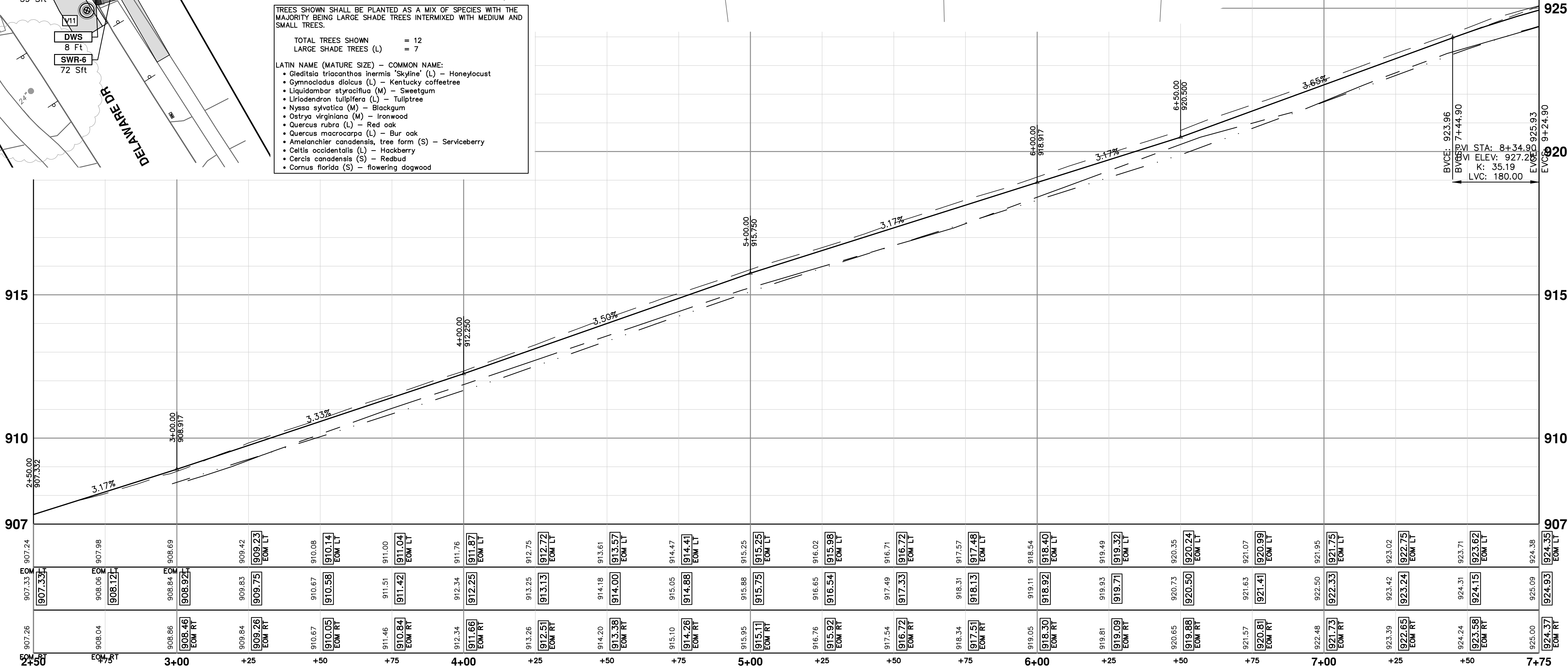
TREES SHOWN SHALL BE PLANTED AS A MIX OF SPECIES WITH THE MAJORITY BEING LARGE SHADE TREES INTERMIXED WITH MEDIUM AND SMALL TREES.


TOTAL TREES SHOWN = 12  
LARGE SHADE TREES (L) = 7

LATIN NAME (MATURE SIZE) - COMMON NAME:

- Gleditsia triacanthos inermis (Skyline) (L) - Honeylocust
- Gymnocladus dioica (L) - Kentucky coffeetree
- Liquidambar styraciflua (M) - Sweetgum
- Liriodendron tulipifera (L) - Tuliptree
- Nyssa sylvatica (M) - Blackgum
- Ostrya virginiana (M) - Ironwood
- Quercus rubra (L) - Red oak
- Quercus macrocarpa (L) - Bur oak
- Amelanchier canadensis, tree form (S) - Serviceberry
- Celtis occidentalis (L) - Hackberry
- Cercis canadensis (S) - Redbud
- Cornus florida (S) - flowering dogwood

CONSTRUCTION KEY	
KEY	DESCRIPTION
HMA	PLACE HMA, PLACE MATERIAL IN LIFTS ACCORDING TO THE TYPICAL SECTION AND AS DIRECTED BY THE ENGINEER.
HMA APP	HMA Approach
HP	Hand Patching
CG	Conc. Curb or Curb & Gutter, All Types
DOM	Conc. Driveway Opening, Type M
DOM-HE	Conc. Driveway Opening, Type M, High Early
DG-6	Aggregate Base, 6 In., 21AA, CIP
MGD	DS_Driveway Grading
SW-4	Conc. Sidewalk, 4 In.
SWR-6	Conc. Sidewalk, Drive Approach, or Ramp, 6 In.
SW6-HE	Conc. Sidewalk, Drive Approach, or Ramp, 6 In., High Early
DWS	Detectable Warning Surface
ABO	ADJUST BY OTHERS
AMB	Monument Box, Adjust
AGB	Gate Box, Adjust
RSA	Storm Structure Cover, Adjust
SSA	Sanitary Structure Cover, Adjust
WSA	Water Structure Cover, Adjust





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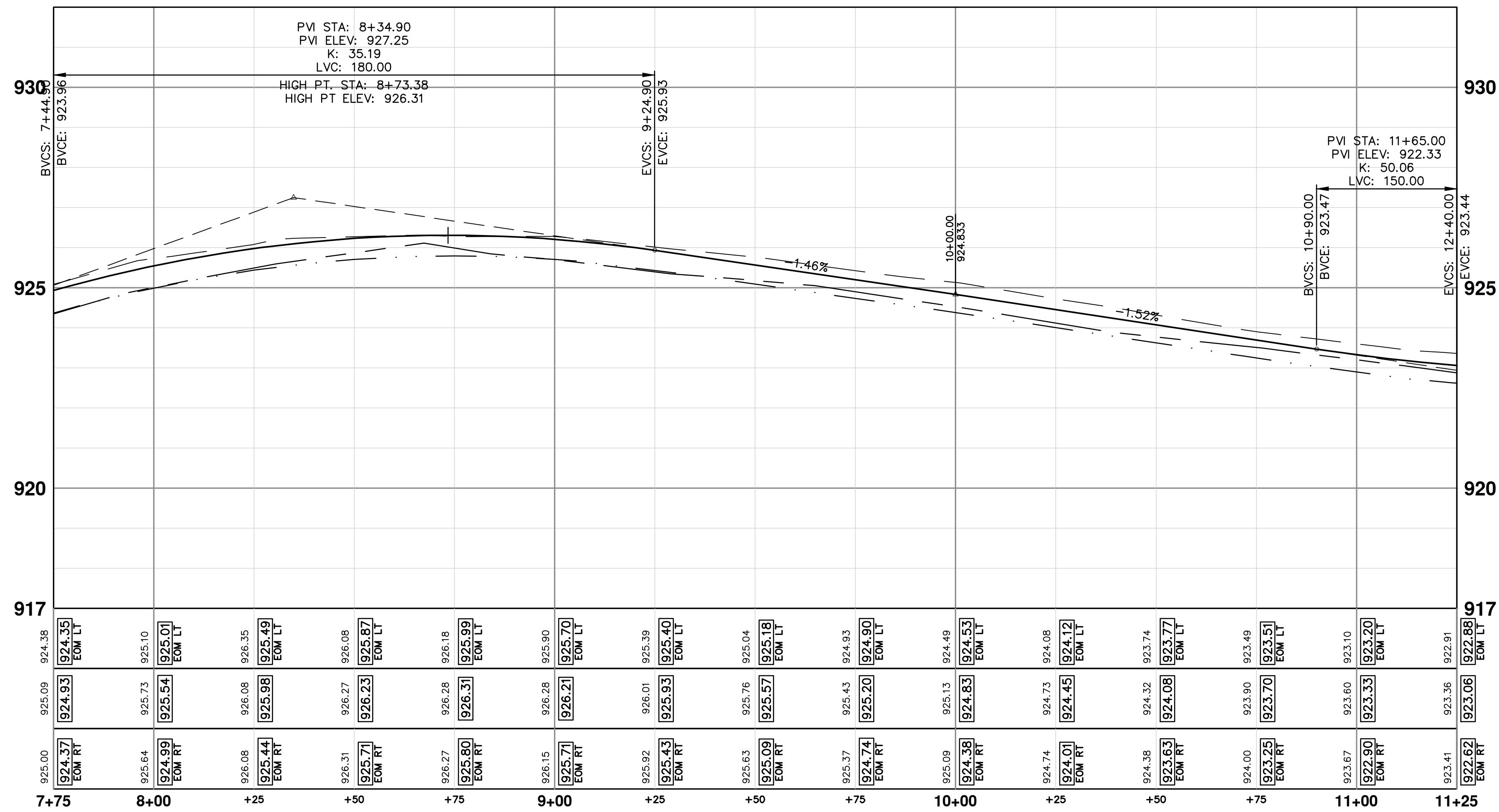
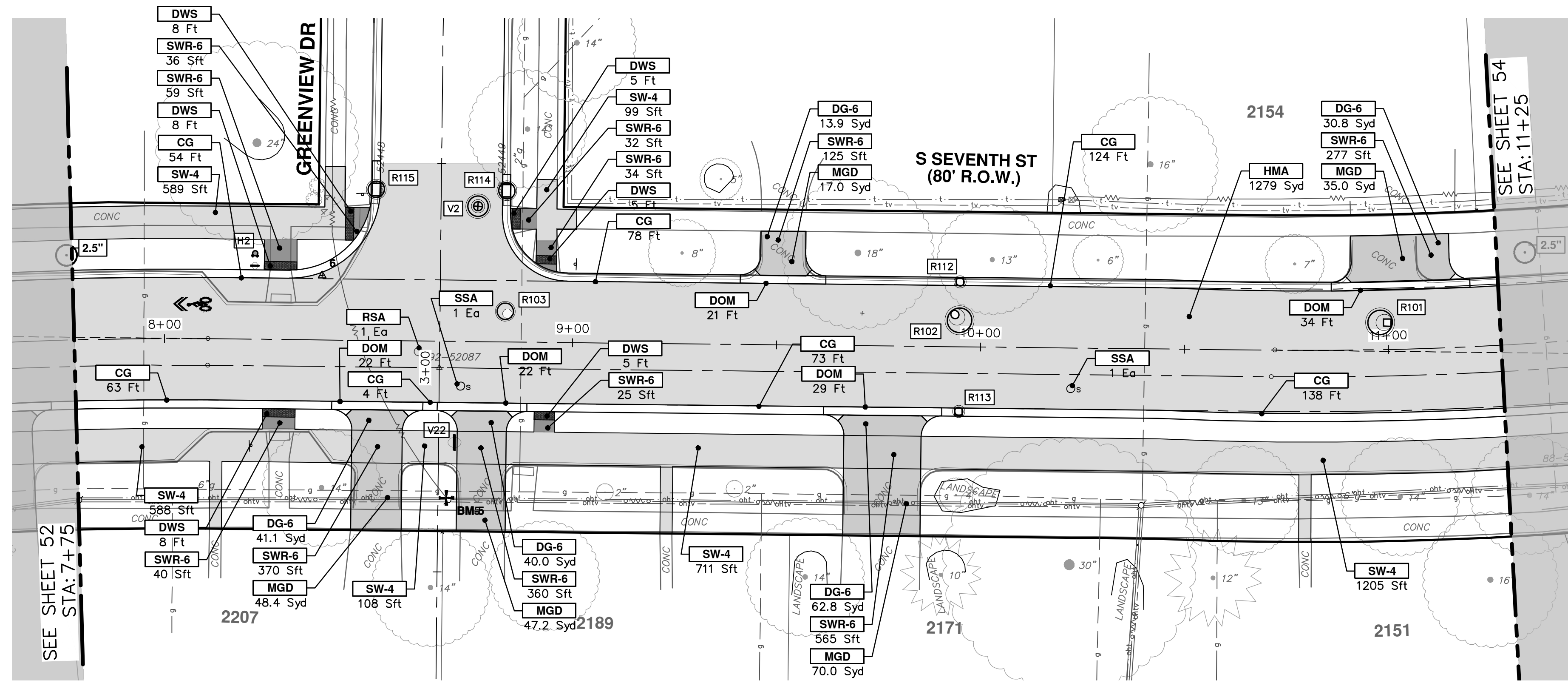
**S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS**

ROAD PLAN & PROFILE - S SEVENTH STREET

STA. 2+00 - STA. 7+75

<p>SCALE PLAN: 1" = 20'</p> <p>PROFILE: 1" = 2'</p> <p>DRAWING NO. 2020031-52</p> <p>SHEET NO. 52 OF 92</p>	<p>01 ADDENDUM 1</p> <p>00 BID SET</p> <p>REV.</p> <p>DESCRIPTION</p> <p>DATE</p> <p>DRAWN</p> <p>CHECKED</p> <p>TA</p> <p>TA</p> <p>A2D</p> <p>A2D</p> <p>1-30-24</p> <p>2-14-24</p> <p>811</p> <p>Know what's below. Call before you dig.</p> <p>www.a2gov.org</p> <p>ANN ARBOR PUBLIC SERVICES 301 EAST HURON STREET ANN ARBOR, MI 48106-6647</p>
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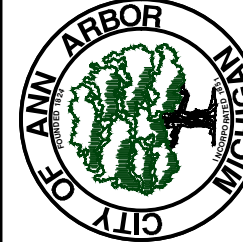
R:\2020031 S 7th Street\Plan Production\2020031PPrd.dwg Dwg Created: 14-Feb-24 - \_s2 standard bw.stb - Plot Date: 14-Feb-24



CONSTRUCTION KEY	
KEY	DESCRIPTION
HMA	PLACE HMA, PLACE MATERIAL IN LIFTS ACCORDING TO THE TYPICAL SECTION AND AS DIRECTED BY THE ENGINEER.
HMA APP	HMA Approach
HP	Hand Patching
CG	Conc, Curb or Curb & Gutter, All Types
DOM	Conc, Driveway Opening, Type M
DOM-HE	Conc, Driveway Opening, Type M, High Early
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MGD	DS_Driveway Grading
SW-4	Conc, Sidewalk, 4 In.
SWR-6	Conc, Sidewalk, Drive Approach, or Ramp, 6 In.
SW6-HE	Conc, Sidewalk, Drive Approach, or Ramp, 6 in., High Early
DWS	Detectable Warning Surface
ABO	ADJUST BY OTHERS
AMB	Monument Box, Adjust
AGB	Gate Box, Adjust
RSA	Storm Structure Cover, Adjust
SSA	Sanitary Structure Cover, Adjust
WSA	Water Structure Cover, Adjust



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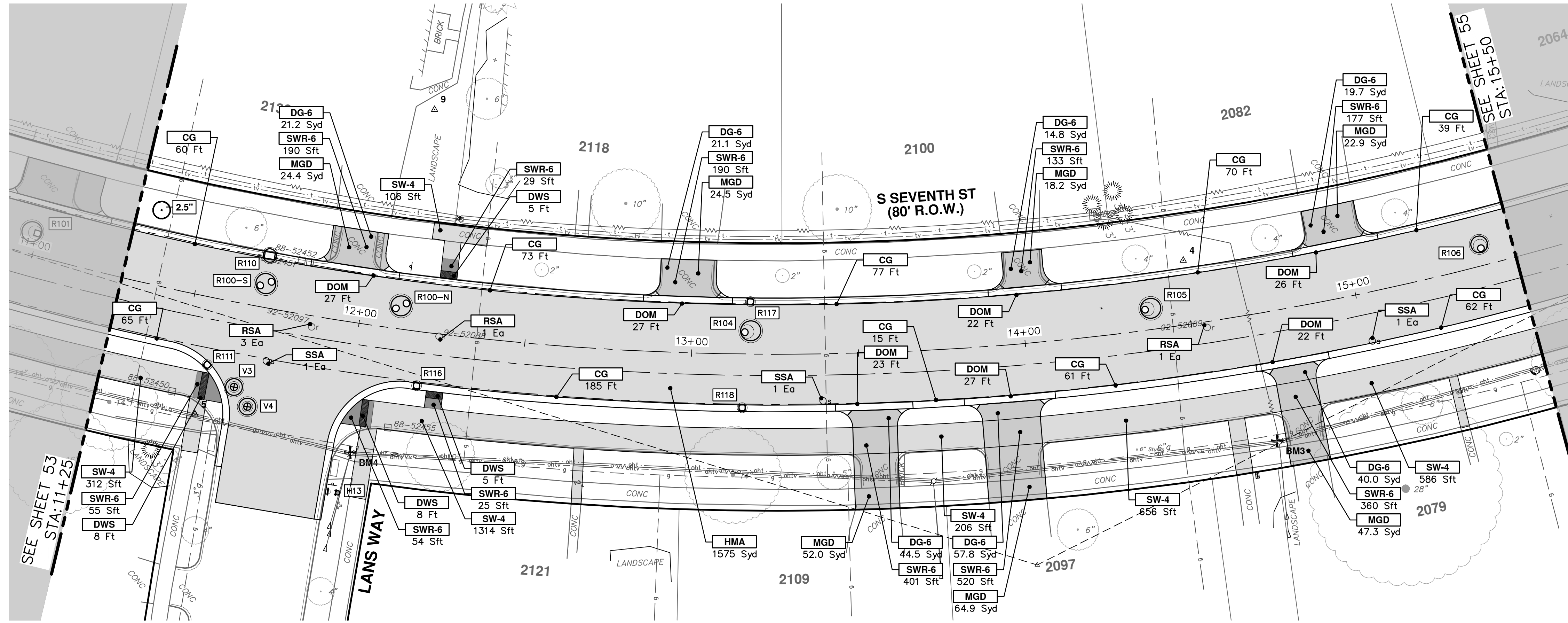


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S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS  
ROAD PLAN & PROFILE - S SEVENTH STREET  
STA. 7+75 - STA. 11+25

SHEET No. 53 OF 92  
SCALE PLAN: 1" = 20'  
PROFILE: 1" = 2'  
DRAWING No. 2020031-53

REV. DESCRIPTION DATE DRAWN CHECKED

01	ADDENDUM 1	2-14-24	A2D	TA
00	BID SET	1-30-24	A2D	TA

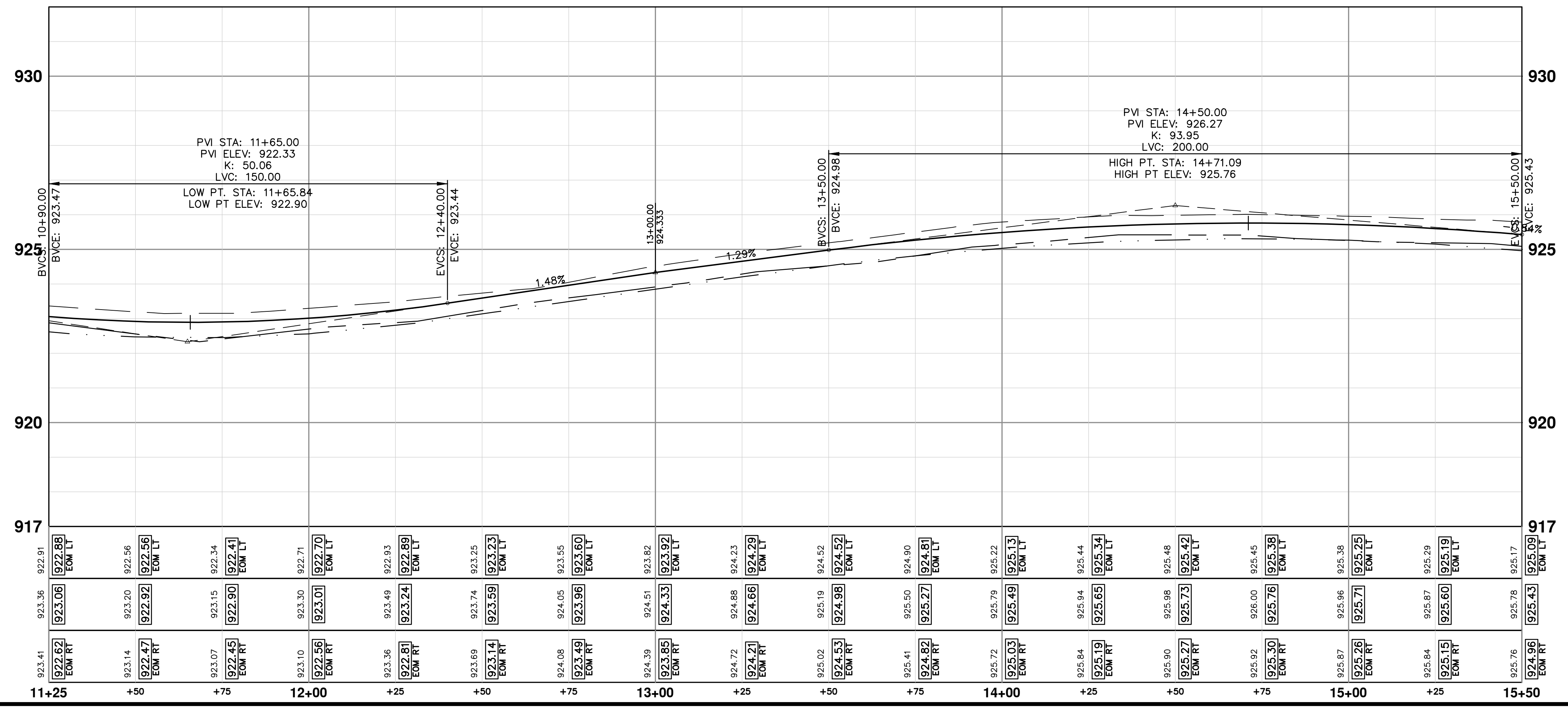


**PROPOSED TREE TABLE**

Size	Northing	Easting
2.5"	275523.5572	13287204.7510

**CONSTRUCTION KEY**

KEY	DESCRIPTION
HMA	PLACE HMA, PLACE MATERIAL IN LIFTS ACCORDING TO THE TYPICAL SECTION AND AS DIRECTED BY THE ENGINEER.
HMA APP	HMA Approach
HP	Hand Patching
CG	Conc. Curb or Curb & Gutter, All Types
DOM	Conc. Driveway Opening, Type M
DOM-HE	Conc. Driveway Opening, Type M, High Early
DG-6	Aggregate Base, 6 In., 21AA, CIP
MGD	DS_Driveway Grading
SW-4	Conc. Sidewalk, 4 In.
SWR-6	Conc. Sidewalk, Drive Approach, or Ramp, 6 In.
SW6-HE	Conc. Sidewalk, Drive Approach, or Ramp, 6 In., High Early
DWS	Detectable Warning Surface
ABO	ADJUST BY OTHERS
AMB	Monument Box, Adjust
AGB	Gate Box, Adjust
RSA	Storm Structure Cover, Adjust
SSA	Sanitary Structure Cover, Adjust
WSA	Water Structure Cover, Adjust



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REV.	DATE	DESCRIPTION
01	ADDENDUM 1	
00	BID SET	

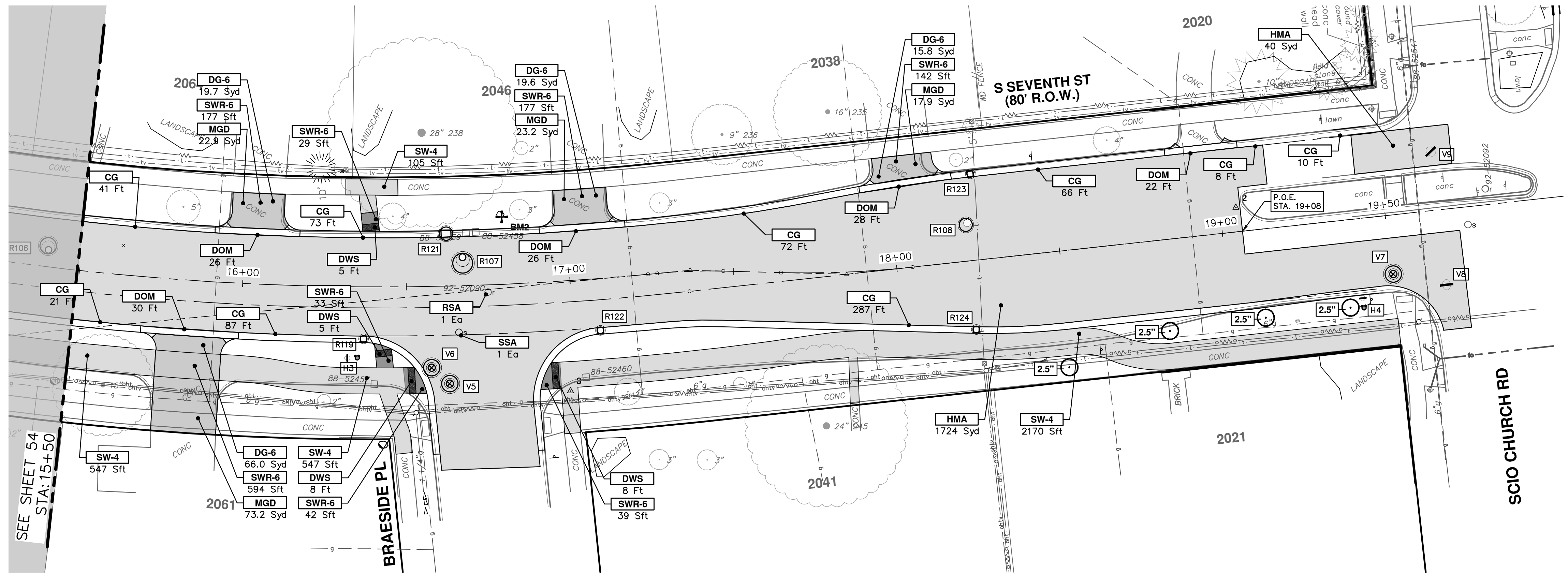
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**S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS**  
 ROAD PLAN & PROFILE - S SEVENTH STREET  
 STA. 11+25 - STA. 15+50

SCALE PLAN: 1" = 20'  
 PROFILE: 1" = 2'

DRAWING NO. 2020031-54  
 SHEET NO. 54 OF 92

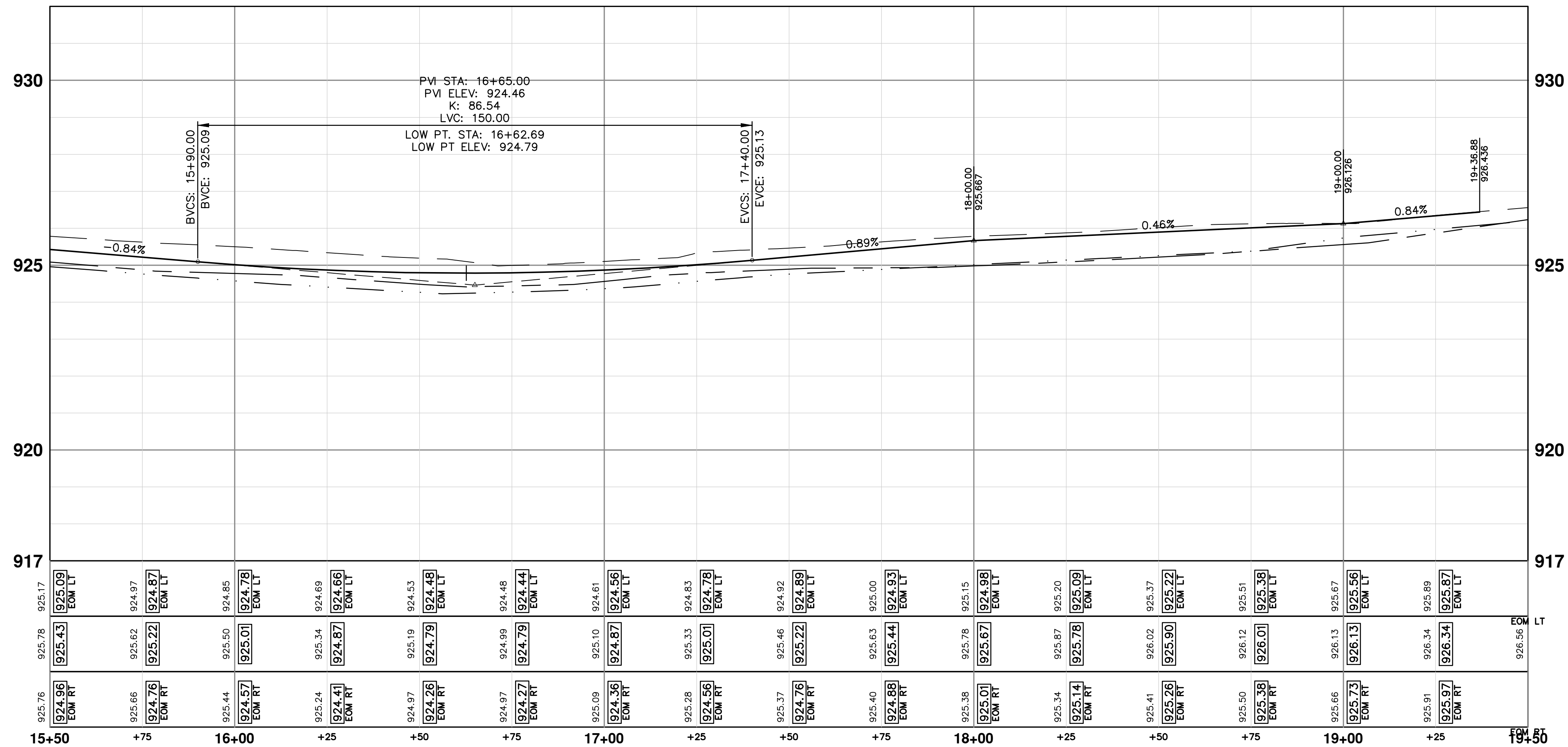


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PROPOSED TREE TABLE		
Size	Northing	Eastng
2.5"	276272.8260	13287423.6886
2.5"	276246.8067	13287425.1334
2.5"	276217.3625	13287427.3474
2.5"	276186.0021	13287436.5015

CONSTRUCTION KEY	
KEY	DESCRIPTION
HMA	PLACE HMA, PLACE MATERIAL IN LIFTS ACCORDING TO THE TYPICAL SECTION AND AS DIRECTED BY THE ENGINEER.
HMA APP	HMA Approach
HP	Hand Patching
CG	Conc, Curb or Curb & Gutter, All Types
DOM	Conc, Driveway Opening, Type M
DOM-HE	Conc, Driveway Opening, Type M, High Early
DG-6	Aggregate Base, 6 In., 21AA, CIP
MGD	DS_Driveway Grading
SW-4	Conc, Sidewalk, 4 In.
SWR-6	Conc, Sidewalk, Drive Approach, or Ramp, 6 In.
SW6-HE	Conc, Sidewalk, Drive Approach, or Ramp, 6 In., High Early
DWS	Detectable Warning Surface
ABO	ADJUST BY OTHERS
AMB	Monument Box, Adjust
AGB	Gate Box, Adjust
RSA	Storm Structure Cover, Adjust
SSA	Sanitary Structure Cover, Adjust
WSA	Water Structure Cover, Adjust



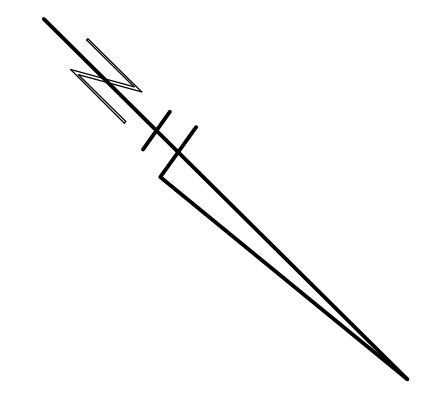
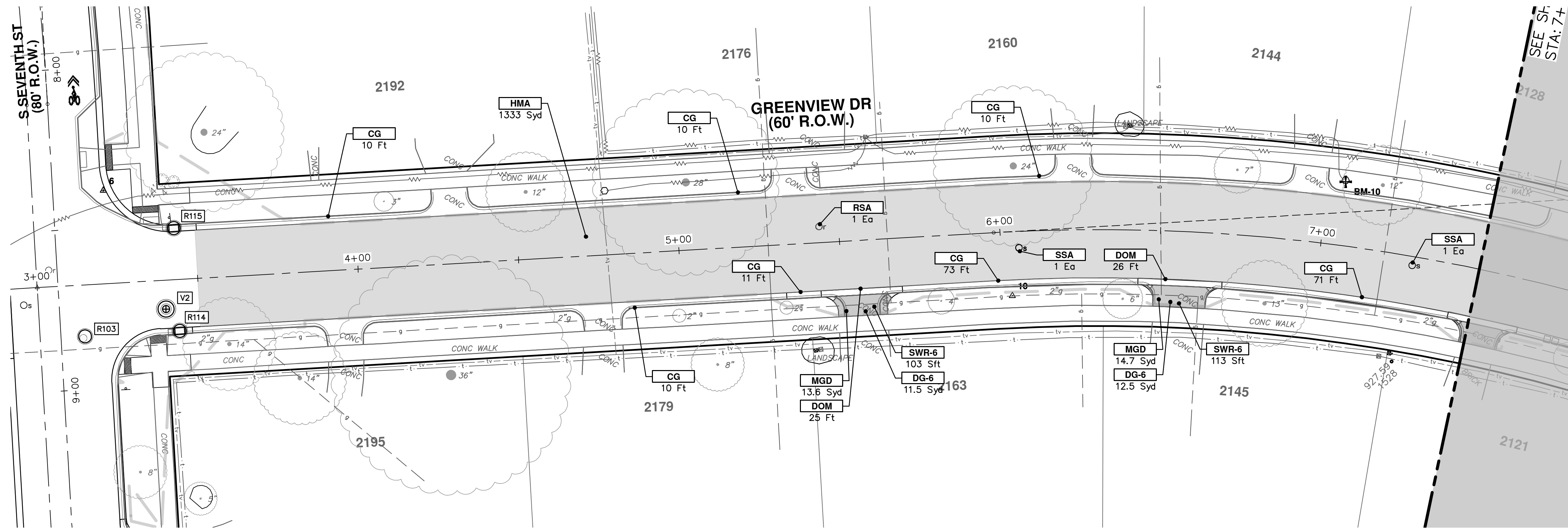
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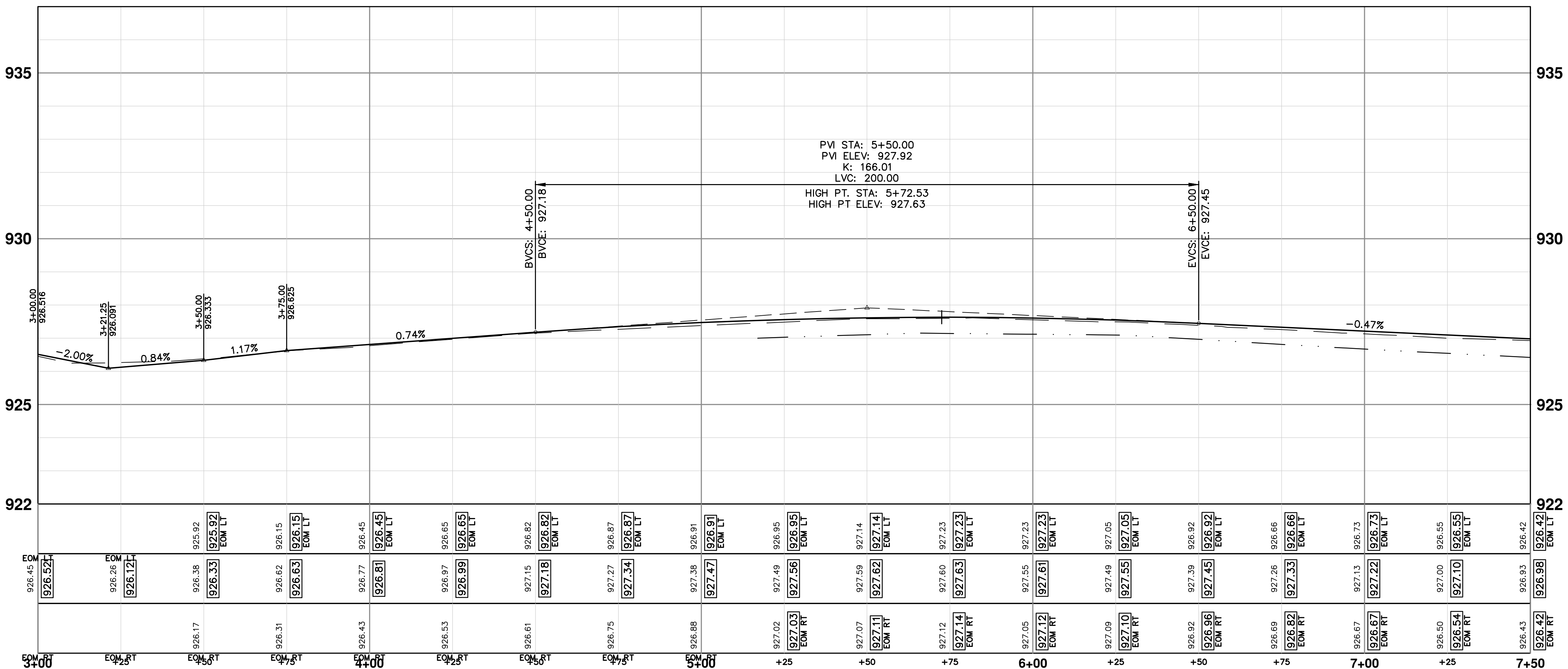
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ROAD PLAN & PROFILE - S SEVENTH STREET

SCALE PLAN: 1" = 20'  
PROFILE: 1" = 2'  
DRAWING No. 2020031-55  
SHEET No. 55 OF 92

R:\2020031\_3\_7th Street\Plan Production\2020031PPrd1.dwg Dwg Created: 30-Jan-24 - \_a2 standard bwstib - Plot Date: 14-Feb-24



CONSTRUCTION KEY	
KEY	DESCRIPTION
HMA	PLACE HMA, PLACE MATERIAL IN LIFTS ACCORDING TO THE TYPICAL SECTION AND AS DIRECTED BY THE ENGINEER.
HMA APP	HMA Approach
HP	Hand Patching
CG	Conc, Curb or Curb & Gutter, All Types
DOM	Conc, Driveway Opening, Type M
DOM-HE	Conc, Driveway Opening, Type M, High Early
DG-6	Aggregate Base, 6 In., 21AA, CIP
MGD	DS_Driveway Grading
SW-4	Conc, Sidewalk, 4 In.
SWR-6	Conc, Sidewalk, Drive Approach, or Ramp, 6 In.
SW6-HE	Conc, Sidewalk, Drive Approach, or Ramp, 6 In., High Early
DWS	Detectable Warning Surface
ABO	ADJUST BY OTHERS
AMB	Monument Box, Adjust
AGB	Gate Box, Adjust
RSA	Storm Structure Cover, Adjust
SSA	Sanitary Structure Cover, Adjust
WSA	Water Structure Cover, Adjust

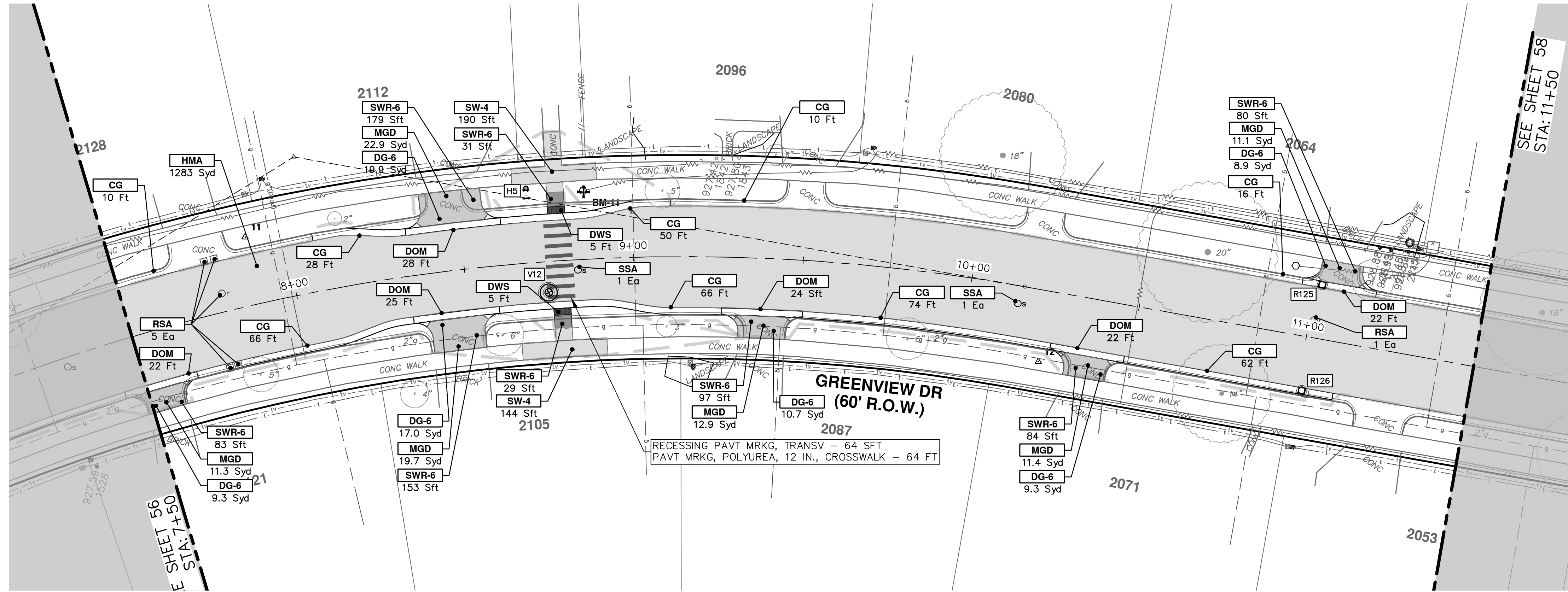


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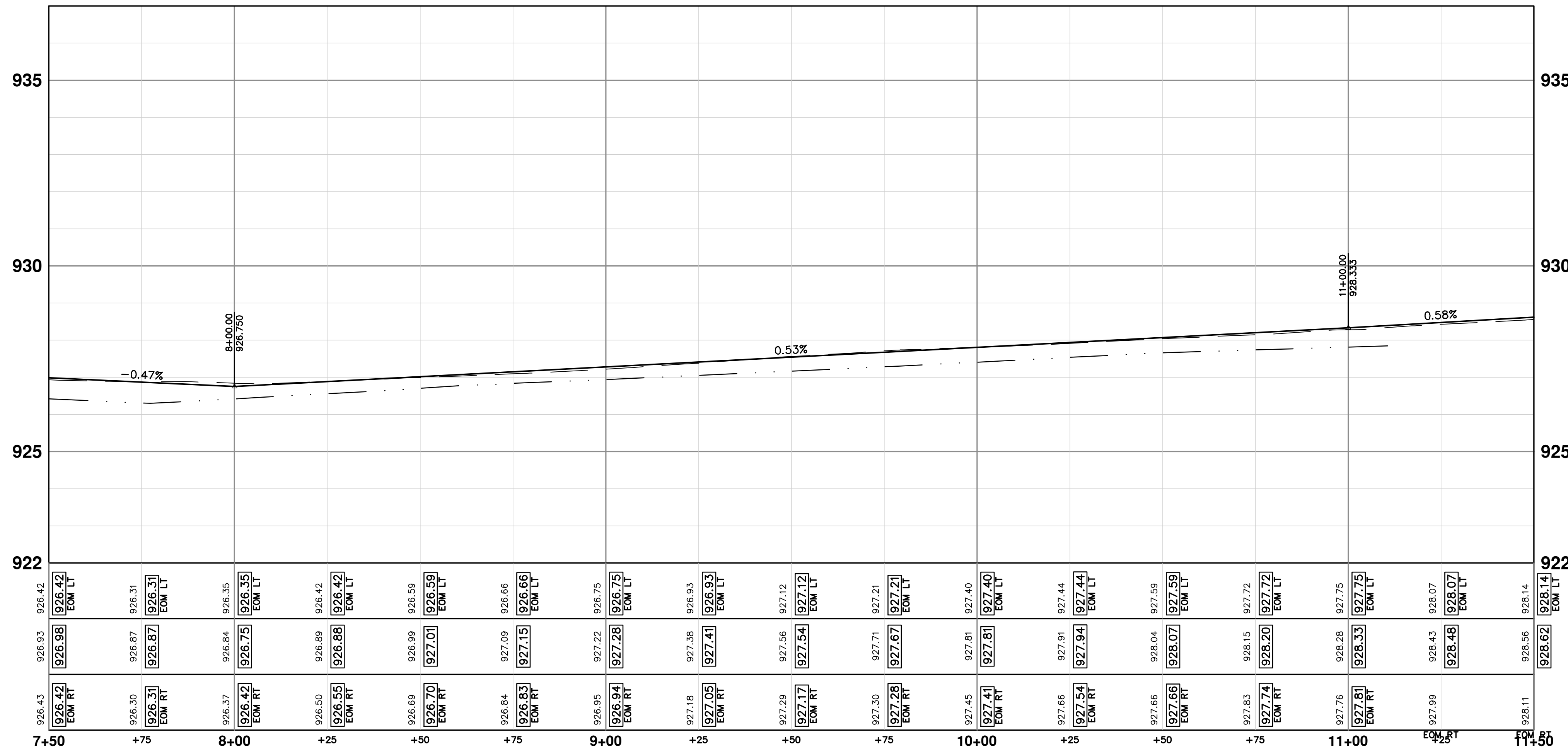


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S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS  
ROAD PLAN & PROFILE - GREENVIEW DRIVE SOUTH  
STA. 3+00 - STA. 7+50

SCALE PLAN: 1" = 20'  
PROFILE: 1" = 2'  
DRAWING NO. 2020031-56



SEE SHEET 58  
STA: 11+50



CONSTRUCTION KEY	
KEY	DESCRIPTION
HMA	PLACE HMA, PLACE MATERIAL IN LIFTS ACCORDING TO THE TYPICAL SECTION AND AS DIRECTED BY THE ENGINEER.
HMA APP	HMA Approach
HP	Hand Patching
CG	Conc, Curb or Curb & Gutter, All Types
DOM	Conc, Driveway Opening, Type M
DOM-HE	Conc, Driveway Opening, Type M, High Early
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MGD	DS_Driveway Grading
SW-4	Conc, Sidewalk, 4 In.
SWR-6	Conc, Sidewalk, Drive Approach, or Ramp, 6 In.
SW6-HE	Conc, Sidewalk, Drive Approach, or Ramp, 6 In., High Early
DWS	Detectable Warning Surface
ABO	ADJUST BY OTHERS
AMB	Monument Box, Adjust
AGB	Gate Box, Adjust
RSA	Storm Structure Cover, Adjust
SSA	Sanitary Structure Cover, Adjust
WSA	Water Structure Cover, Adjust

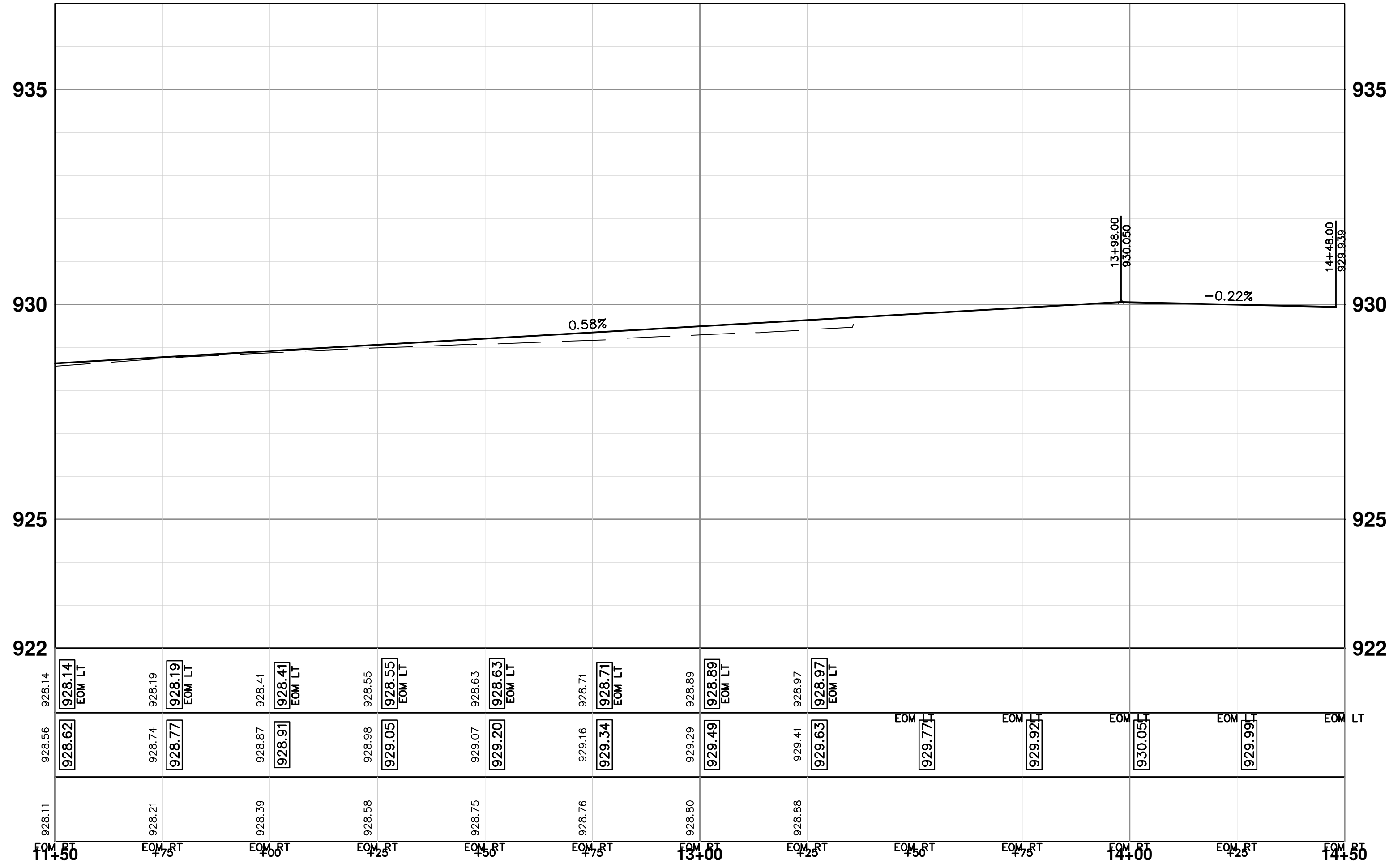
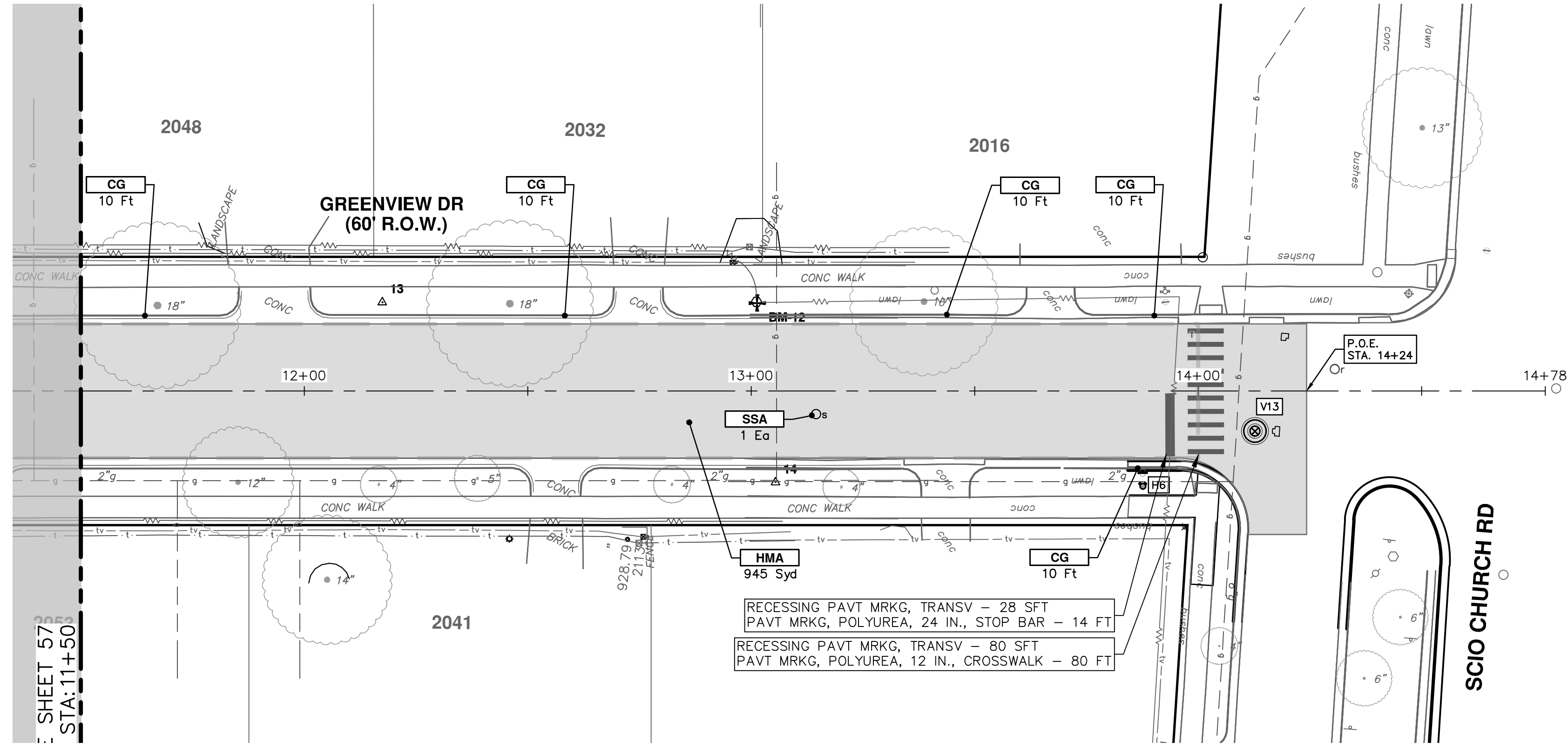


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S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS  
ROAD PLAN & PROFILE - GREENVIEW DRIVE SOUTH  
STA. 7+50 - STA. 11+50

SCALE PLAN: 1" = 20'  
PROFILE: 1" = 2'  
DRAWING NO. 2020031-57



CONSTRUCTION KEY	
KEY	DESCRIPTION
HMA	PLACE HMA, PLACE MATERIAL IN LIFTS ACCORDING TO THE TYPICAL SECTION AND AS DIRECTED BY THE ENGINEER.
HMA APP	HMA Approach
HP	Hand Patching
CG	Conc. Curb or Curb & Gutter, All Types
DOM	Conc. Driveway Opening, Type M
DOM-HE	Conc. Driveway Opening, Type M, High Early
DG-6	Aggregate Base, 6 in., 21AA, CIP
MGD	DS_Driveway Grading
SW-4	Conc. Sidewalk, 4 In.
SWR-6	Conc. Sidewalk, Drive Approach, or Ramp, 6 In.
SW6-HE	Conc. Sidewalk, Drive Approach, or Ramp, 6 In., High Early
DWS	Detectable Warning Surface
ABO	ADJUST BY OTHERS
AMB	Monument Box, Adjust
AGB	Gate Box, Adjust
RSA	Storm Structure Cover, Adjust
SSA	Sanitary Structure Cover, Adjust
WSA	Water Structure Cover, Adjust

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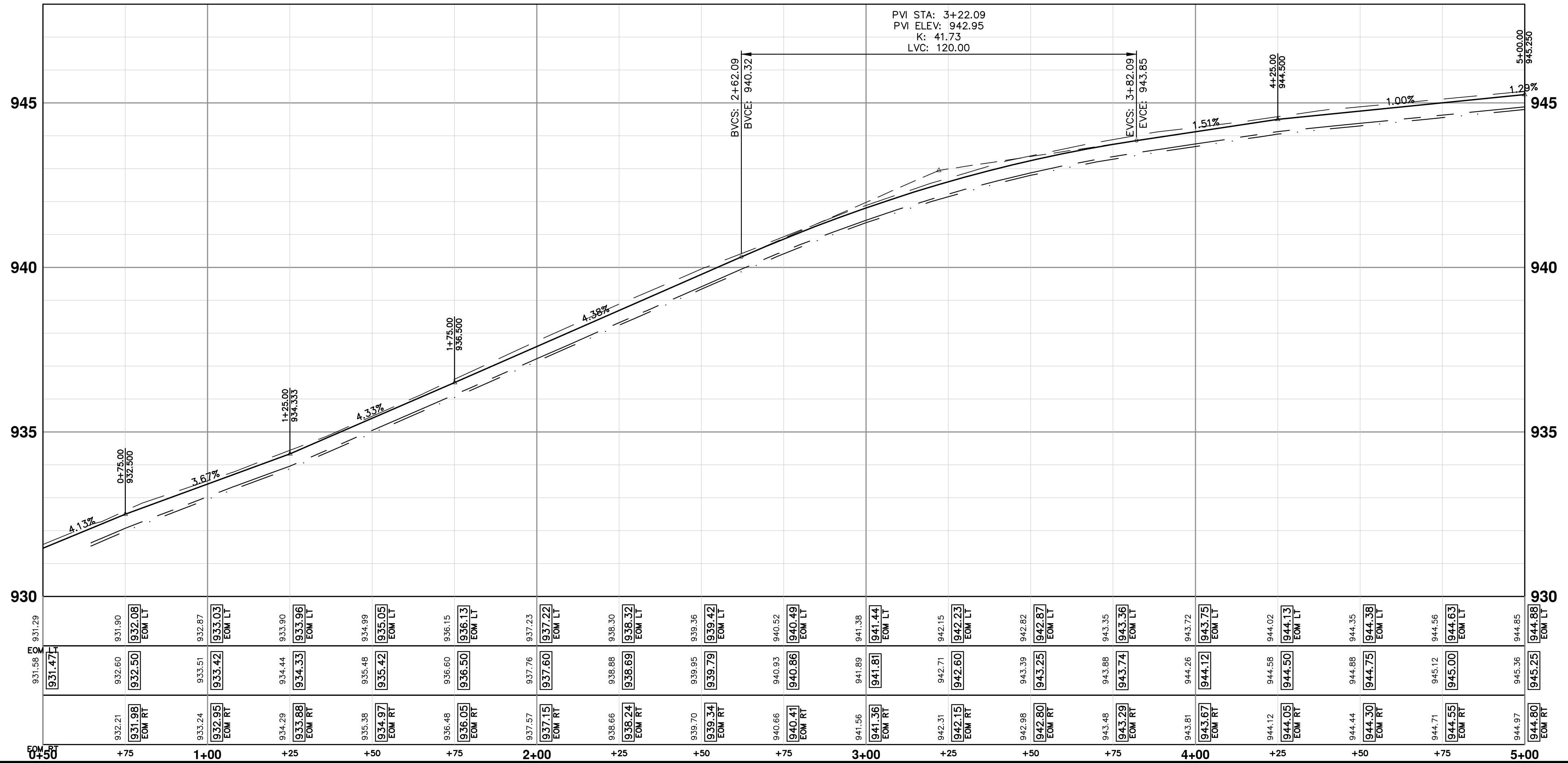
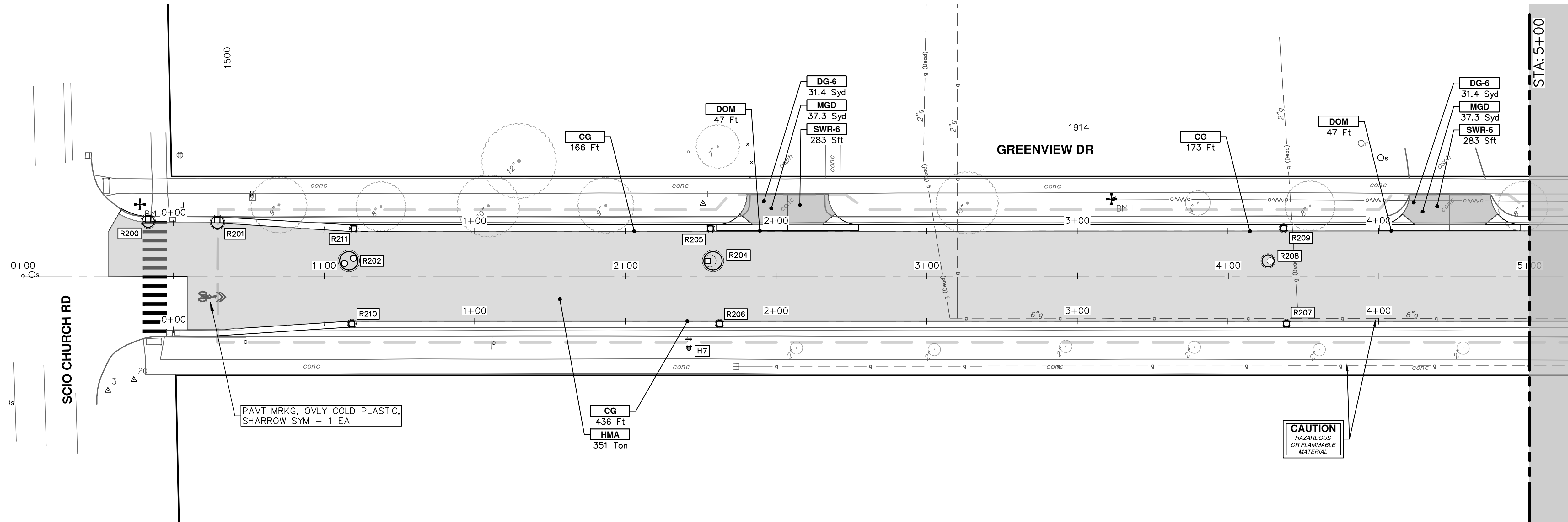


**CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING**  
**S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS**  
ROAD PLAN & PROFILE - GREENVIEW DRIVE SOUTH

SCALE PLAN: 1" = 20'  
PROFILE: 1" = 2'  
DRAWING No. 2020031-58



REV.	DATE	DESCRIPTION
01	2-14-24	ADDENDUM 1
00	1-30-24	BID SET



CONSTRUCTION KEY	
KEY	DESCRIPTION
HMA	PLACE HMA. PLACE MATERIAL IN LIFTS ACCORDING TO THE TYPICAL SECTION AND AS DIRECTED BY THE ENGINEER.
HMA APP	HMA Approach
HP	Hand Patching
CG	Conc. Curb or Curb & Gutter, All Types
DOM	Conc. Driveway Opening, Type M
DOM-HE	Conc. Driveway Opening, Type M, High Early
DG-6	Aggregate Base, 6 In., 21AA, CIP
MGD	DS_Driveway Grading
SW-4	Conc. Sidewalk, 4 In.
SWR-6	Conc. Sidewalk, Drive Approach, or Ramp, 6 In.
SW6-HE	Conc. Sidewalk, Drive Approach, or Ramp, 6 In., High Early
DWS	Detectable Warning Surface
ABO	ADJUST BY OTHERS
AMB	Monument Box, Adjust
AGB	Gate Box, Adjust
RSA	Storm Structure Cover, Adjust
SSA	Sanitary Structure Cover, Adjust
WSA	Water Structure Cover, Adjust

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**S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS**

ROAD PLAN & PROFILE - GREENVIEW DRIVE NORTH

STA. 0+00 - STA. 5+00

SCALE PLAN: 1" = 20'  
PROFILE: 1" = 2'

DRAWING NO. 2020031-59

SHEET NO. 59 OF 92

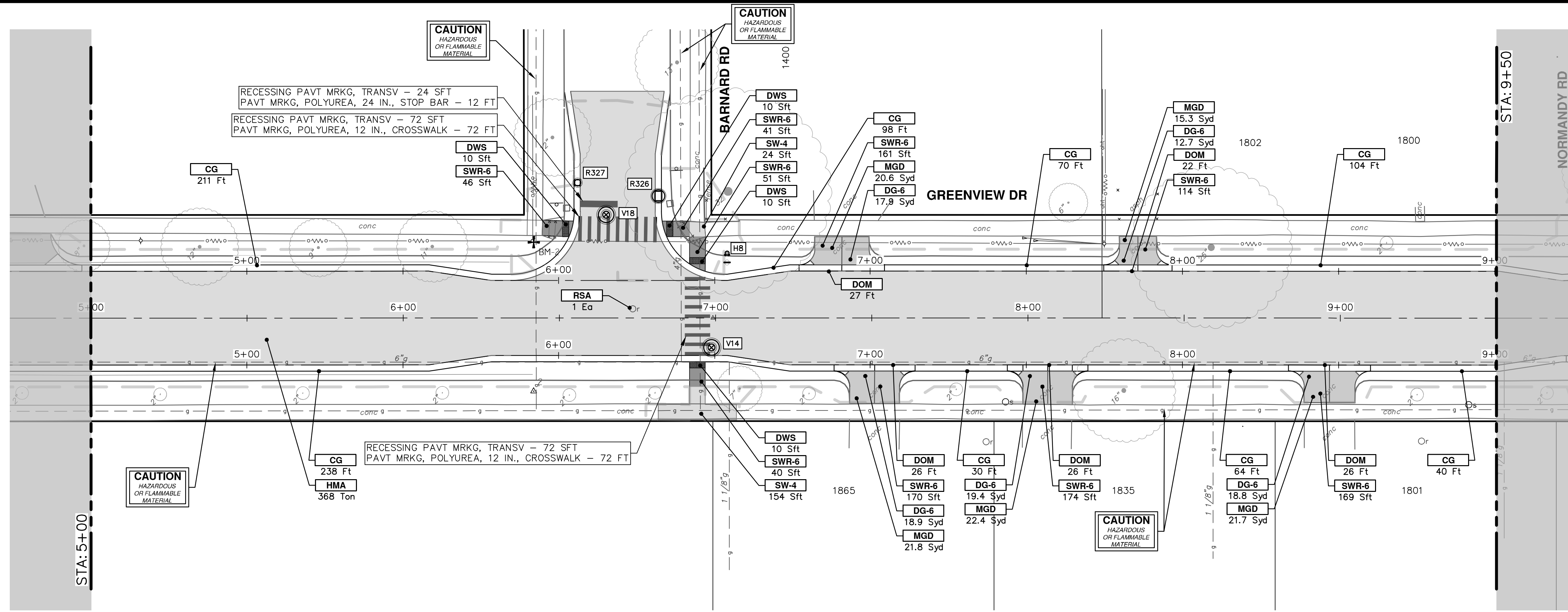
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REV.	DATE	DRAWN	CHECKED
01	ADDENDUM 1	A2D	TA
00	BID SET	A2D	TA

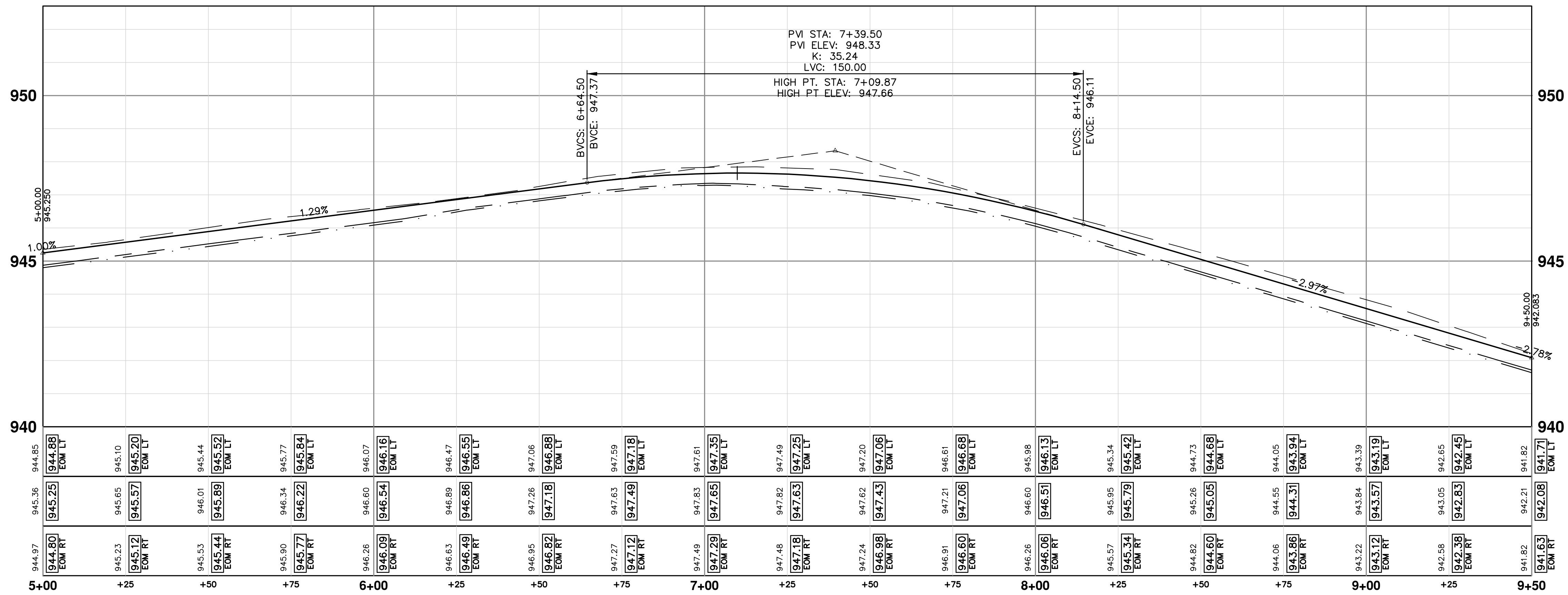
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**CITY OF ANN ARBOR MICHIGAN**

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CONSTRUCTION KEY	
KEY	DESCRIPTION
HMA	PLACE HMA, PLACE MATERIAL IN LIFTS ACCORDING TO THE TYPICAL SECTION AND AS DIRECTED BY THE ENGINEER.
HMA APP	HMA Approach
HP	Hand Patching
CG	Conc, Curb or Curb & Gutter, All Types
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DOM-HE	Conc, Driveway Opening, Type M, High Early
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MGD	DS_Driveway Grading
SW-4	Conc, Sidewalk, 4 In.
SWR-6	Conc, Sidewalk, Drive Approach, or Ramp, 6 In.
SW6-HE	Conc, Sidewalk, Drive Approach, or Ramp, 6 In., High Early
DWS	Detectable Warning Surface
ABO	ADJUST BY OTHERS
AMB	Monument Box, Adjust
AGB	Gate Box, Adjust
RSA	Storm Structure Cover, Adjust
SSA	Sanitary Structure Cover, Adjust
WSA	Water Structure Cover, Adjust



**CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING**

**S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS**

ROAD PLAN & PROFILE - GREENVIEW DRIVE NORTH

STA. 5+00 - STA. 9+50

SCALE PLAN: 1" = 20'  
PROFILE: 1" = 2'

DRAWING NO. 2020031-60

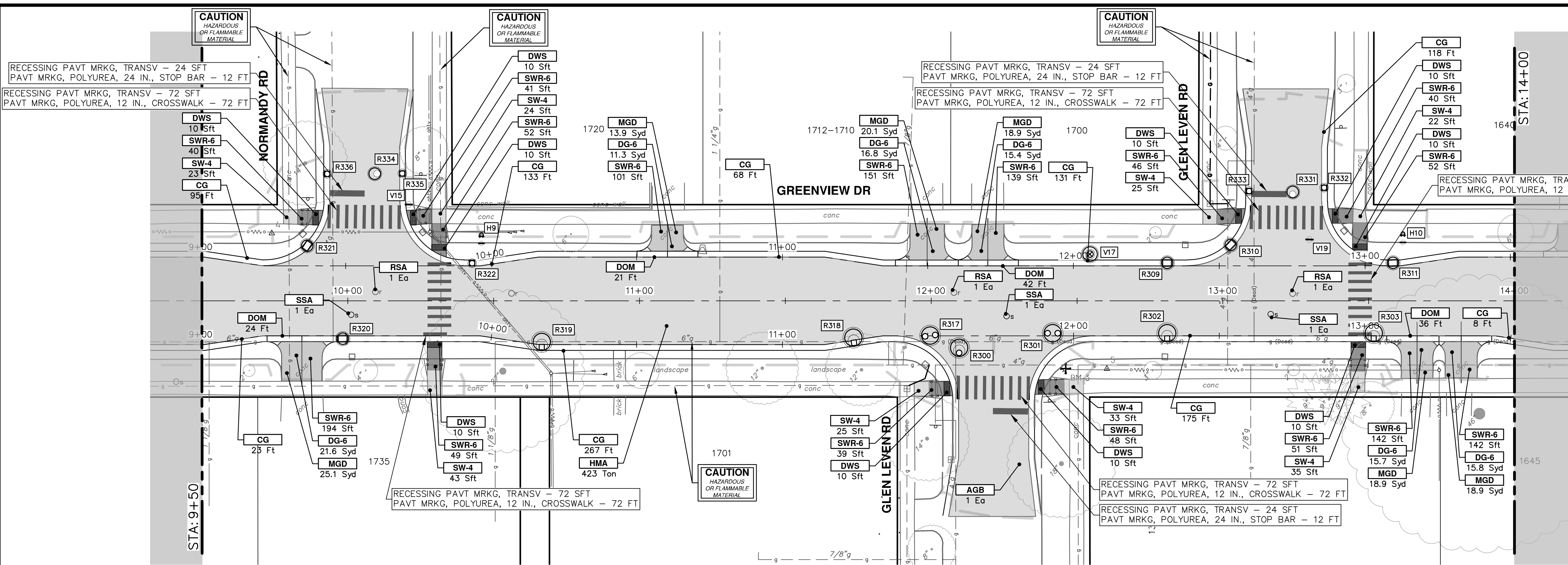
SHEET NO. 60 OF 92

**811**  
Know what's below.  
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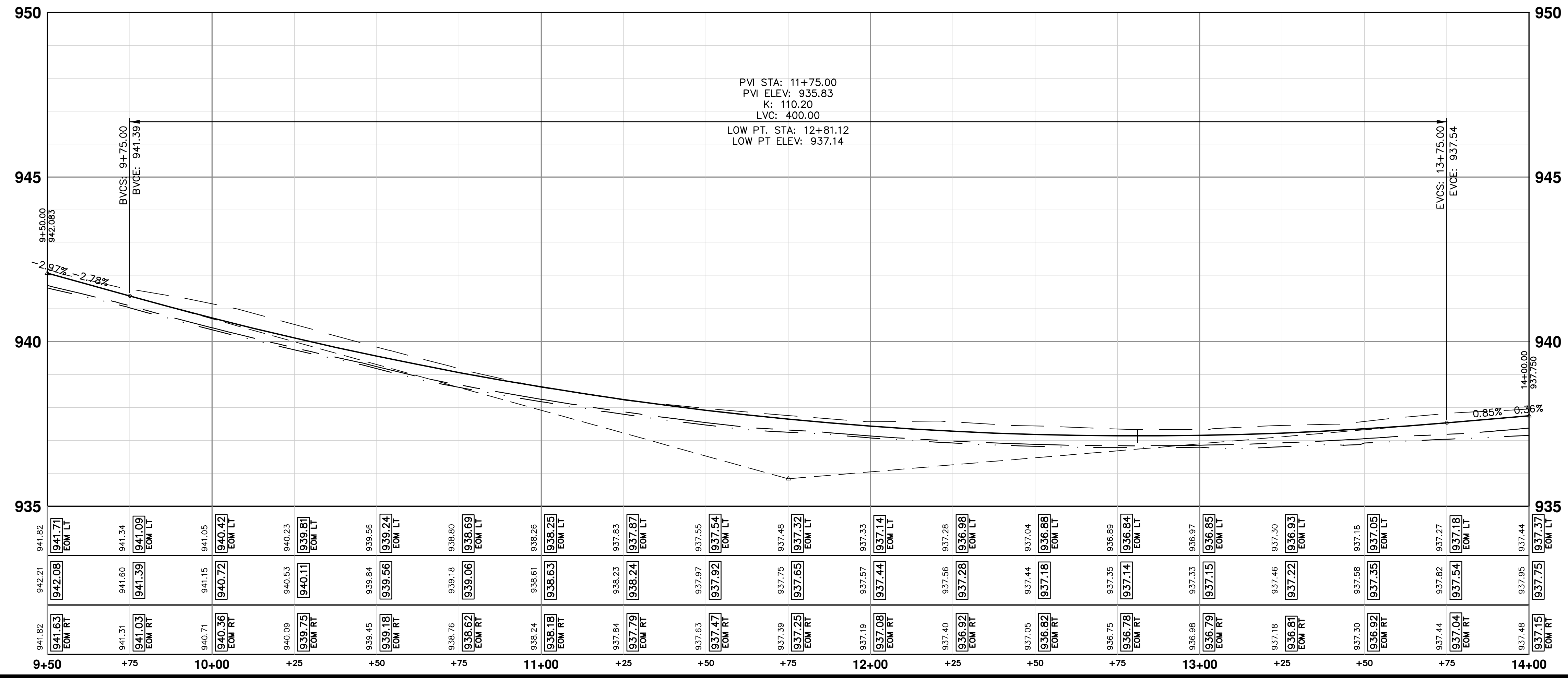
01	ADDENDUM 1	2-14-24	A2D	TA
00	BID SET	1-30-24	A2D	TA
	REV.	DATE	DRAWN	CHECKED


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CONSTRUCTION KEY	
KEY	DESCRIPTION
HMA	PLACE HMA, PLACE MATERIAL IN LIFTS ACCORDING TO THE TYPICAL SECTION AND AS DIRECTED BY THE ENGINEER.
HMA APP	HMA Approach
HP	Hand Patching
CG	Conc. Curb or Curb & Gutter, All Types
DOM	Conc. Driveway Opening, Type M
DOM-HE	Conc. Driveway Opening, Type M, High Early
DG-6	Aggregate Base, 6 in., 21AA, CIP
MGD	DS_Driveway Grading
SW-4	Conc. Sidewalk, 4 In.
SWR-6	Conc. Sidewalk, Drive Approach, or Ramp, 6 In.
SWR-6	Conc. Sidewalk, Drive Approach, or Ramp, 6 In., High Early
SWR-6-HE	Conc. Sidewalk, Drive Approach, or Ramp, 6 In., High Early
DWS	Detectable Warning Surface
ABO	ADJUST BY OTHERS
AMB	Monument Box, Adjust
AGB	Gate Box, Adjust
RSA	Storm Structure Cover, Adjust
SSA	Sanitary Structure Cover, Adjust
WSA	Water Structure Cover, Adjust





Know what's below.  
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REV.	DATE	DESCRIPTION
01	2-14-24	ADDENDUM 1
00	1-30-24	BID SET



**CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING**  
**S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS**  
ROAD PLAN & PROFILE - GREENVIEW DRIVE NORTH

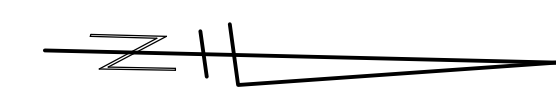
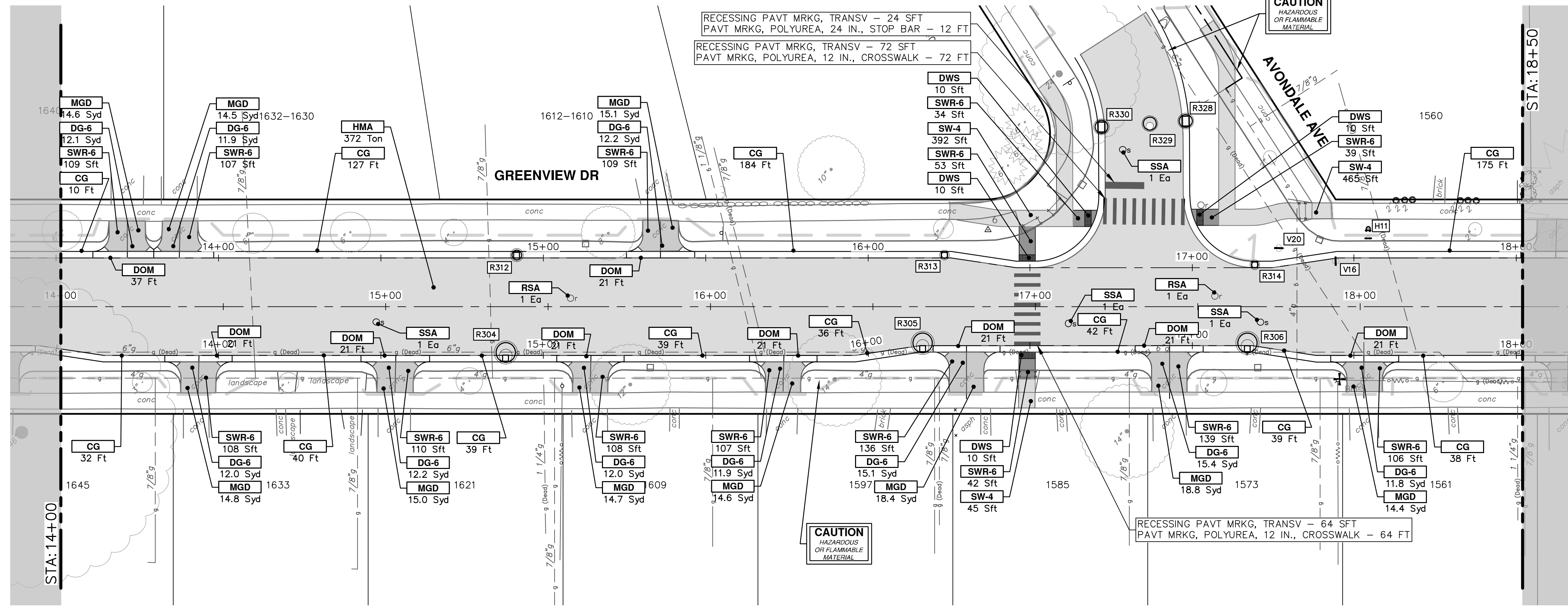
STA. 9+50 - STA. 14+00

SCALE PLAN: 1" = 20'  
PROFILE: 1" = 2'

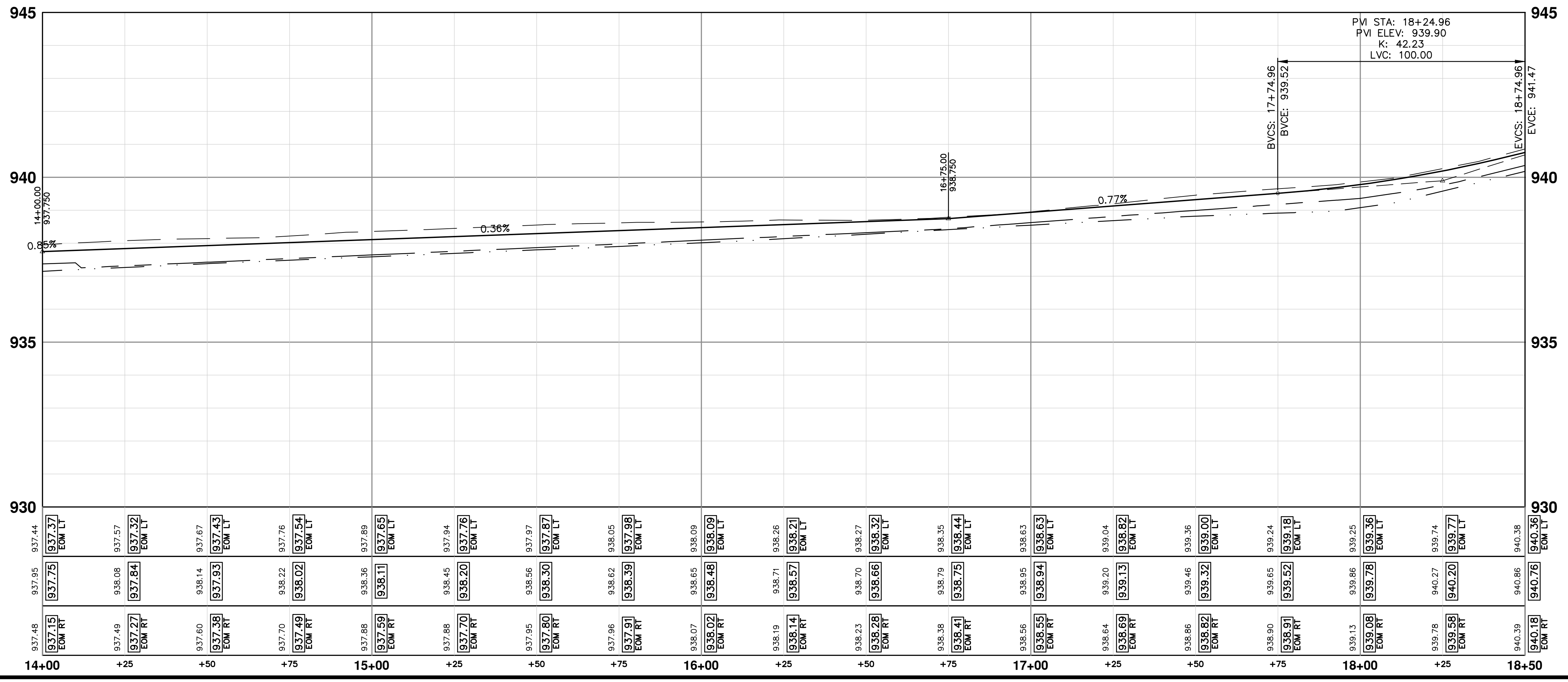
DRAWING NO. 2020031-61

SHEET NO. 61 OF 92

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CONSTRUCTION KEY	
KEY	DESCRIPTION
HMA	PLACE HMA, PLACE MATERIAL IN LIFTS ACCORDING TO THE TYPICAL SECTION AND AS DIRECTED BY THE ENGINEER.
HMA APP	HMA Approach
HP	Hand Patching
CG	Conc, Curb or Curb & Gutter, All Types
DOM	Conc, Driveway Opening, Type M
DOM-HE	Conc, Driveway Opening, Type M, High Early
DG-6	Aggregate Base, 6 In., 21AA, CIP
MGD	DS_Driveway Grading
SW-4	Conc, Sidewalk, 4 In.
SWR-6	Conc, Sidewalk, Drive Approach, or Ramp, 6 In.
SWR-6 HE	Conc, Sidewalk, Drive Approach, or Ramp, 6 In., High Early
DWS	Detectable Warning Surface
ABO	ADJUST BY OTHERS
AMB	Monument Box, Adjust
AGB	Gate Box, Adjust
RSA	Storm Structure Cover, Adjust
SSA	Sanitary Structure Cover, Adjust
WSA	Water Structure Cover, Adjust



**811**  
Know what's below. Call before you dig.

DATE: 2-14-24  
DRAWN: A2D  
CHECKED: TA

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DESCRIPTION: REV. 00 BID SET 1-30-24

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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING  
S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS  
ROAD PLAN & PROFILE - GREENVIEW DRIVE NORTH

STA. 14+00 - STA. 18+50

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SCALE PLAN: 1" = 20'  
PROFILE: 1" = 2'

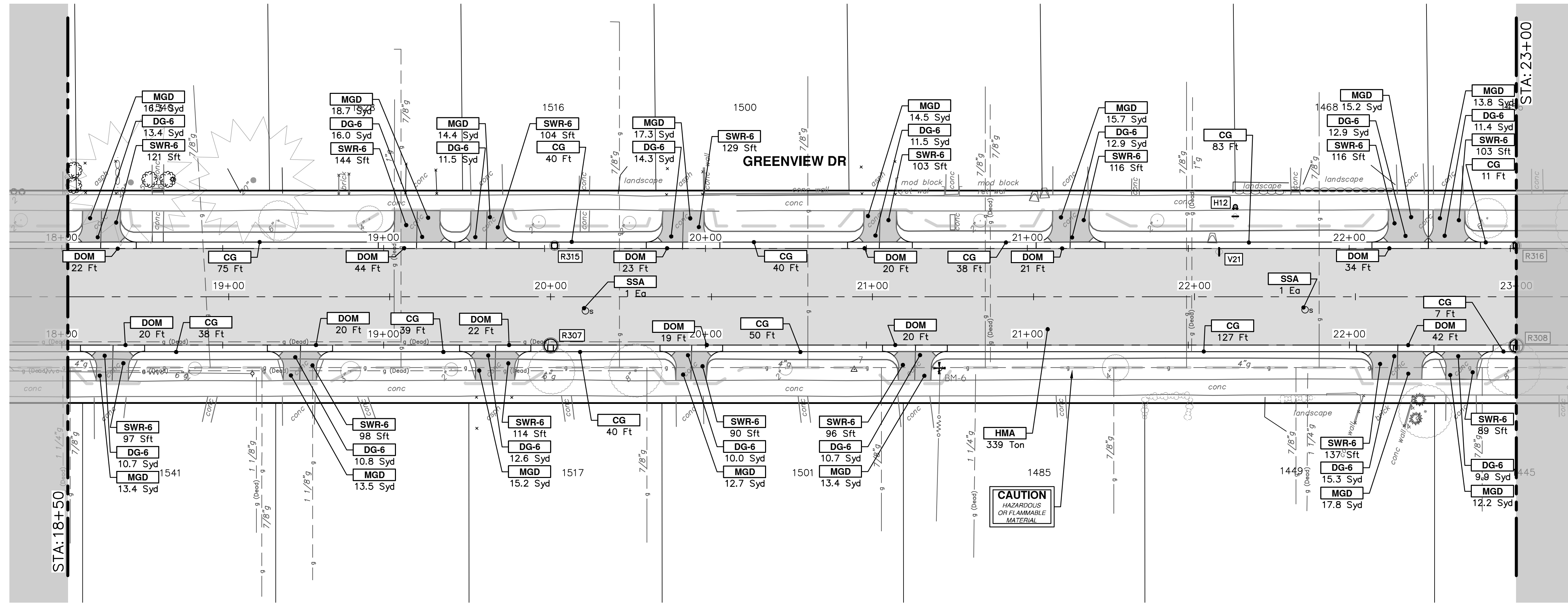
DRAWING NO. 2020031-62

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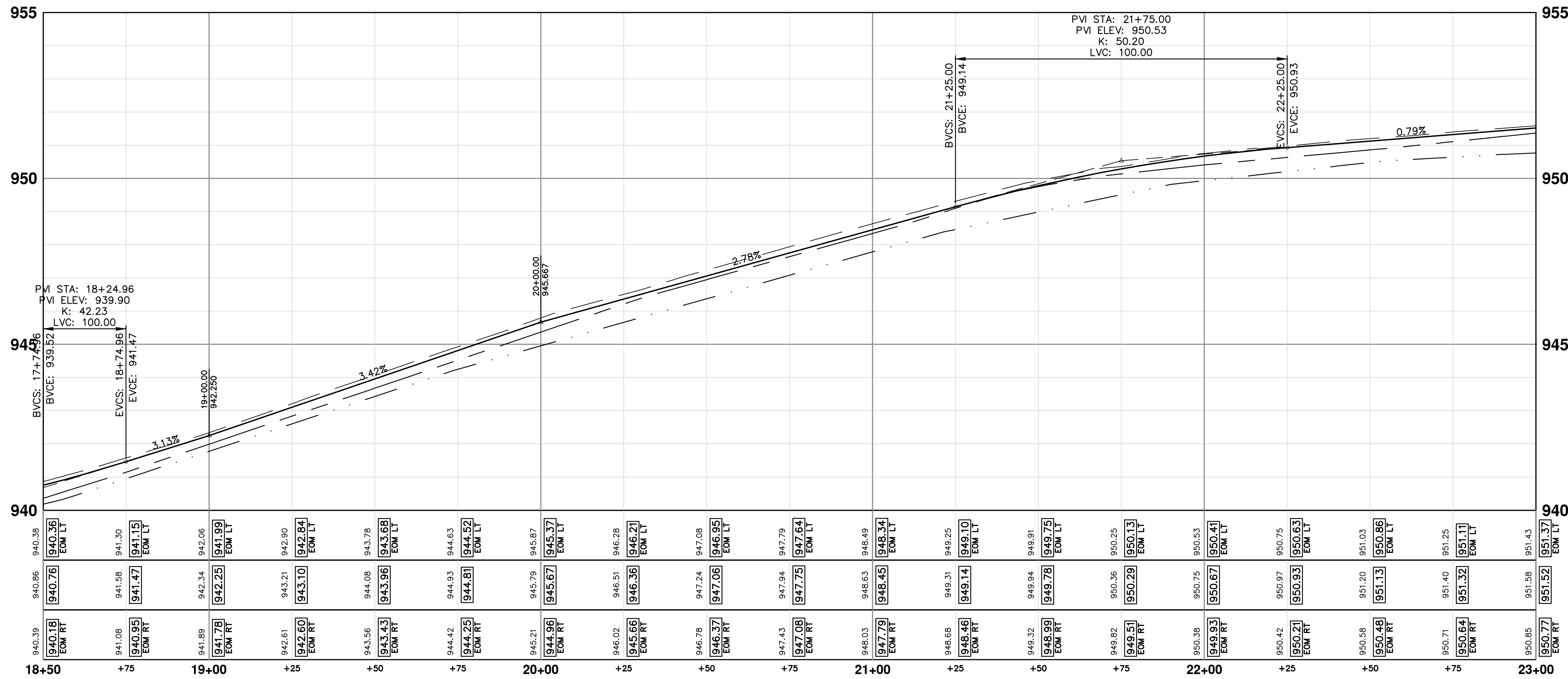
SHEET No. 62 OF 92

DATE: 2-14-24





CONSTRUCTION KEY	
KEY	DESCRIPTION
HMA	PLACE HMA, PLACE MATERIAL IN LIFTS ACCORDING TO THE TYPICAL SECTION AND AS DIRECTED BY THE ENGINEER.
HMA APP	HMA Approach
HP	Hand Patching
CG	Conc, Curb or Curb & Gutter, All Types
DOM	Conc, Driveway Opening, Type M
DOM-HE	Conc, Driveway Opening, Type M, High Early
DG-6	Aggregate Base, 6 In., 21AA, CIP
MGD	DS_Driveway Grading
SW-4	Conc, Sidewalk, 4 In.
SWR-6	Conc, Sidewalk, Drive Approach, or Ramp, 6 In.
SW6-HE	Conc, Sidewalk, Drive Approach, or Ramp, 6 In., High Early
DWS	Detectable Warning Surface
ABO	ADJUST BY OTHERS
AMB	Monument Box, Adjust
AGB	Gate Box, Adjust
RSA	Storm Structure Cover, Adjust
SSA	Sanitary Structure Cover, Adjust
WSA	Water Structure Cover, Adjust



**811**  
Know what's below.  
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**CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING**

**S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS**

ROAD PLAN & PROFILE - GREENVIEW DRIVE NORTH

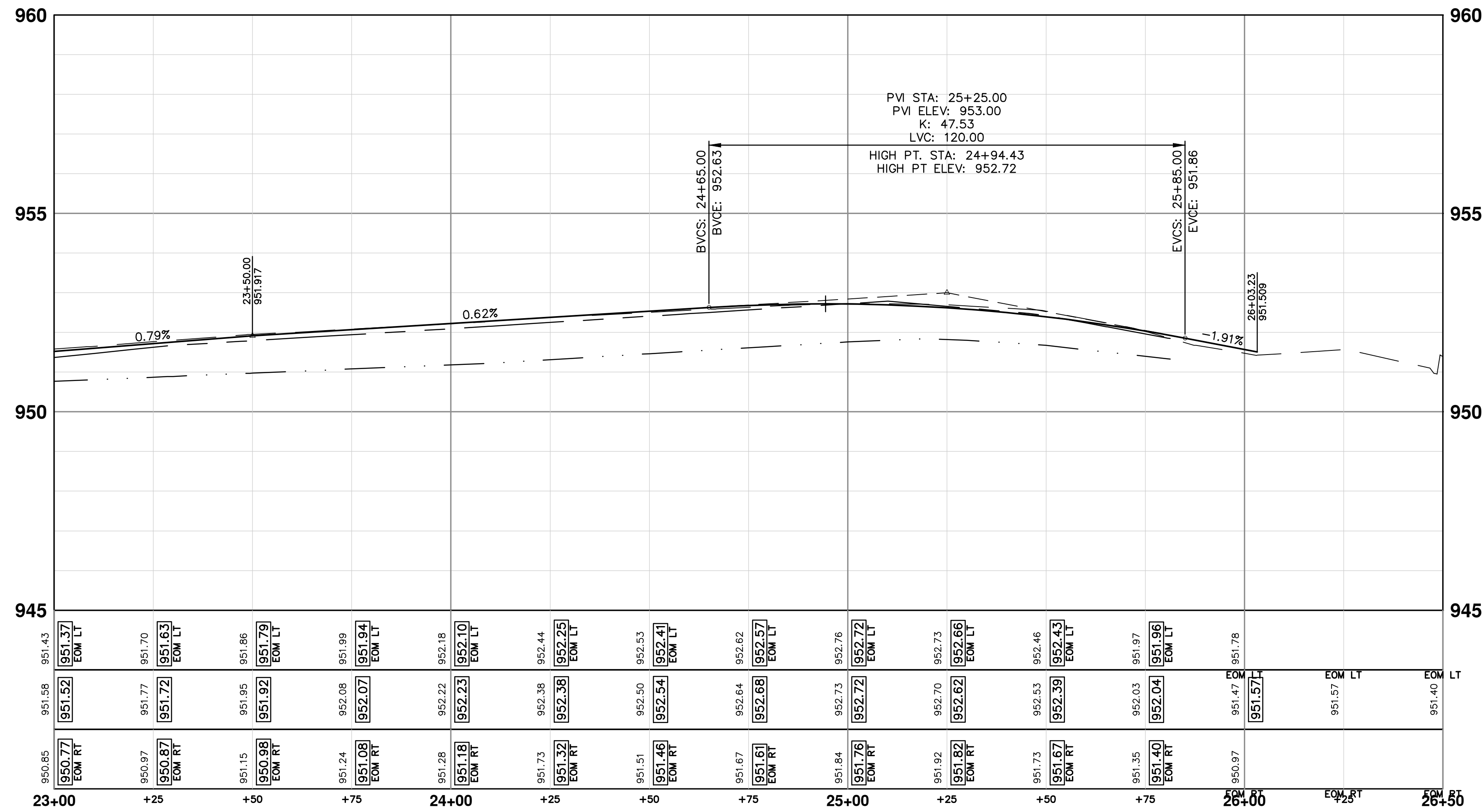
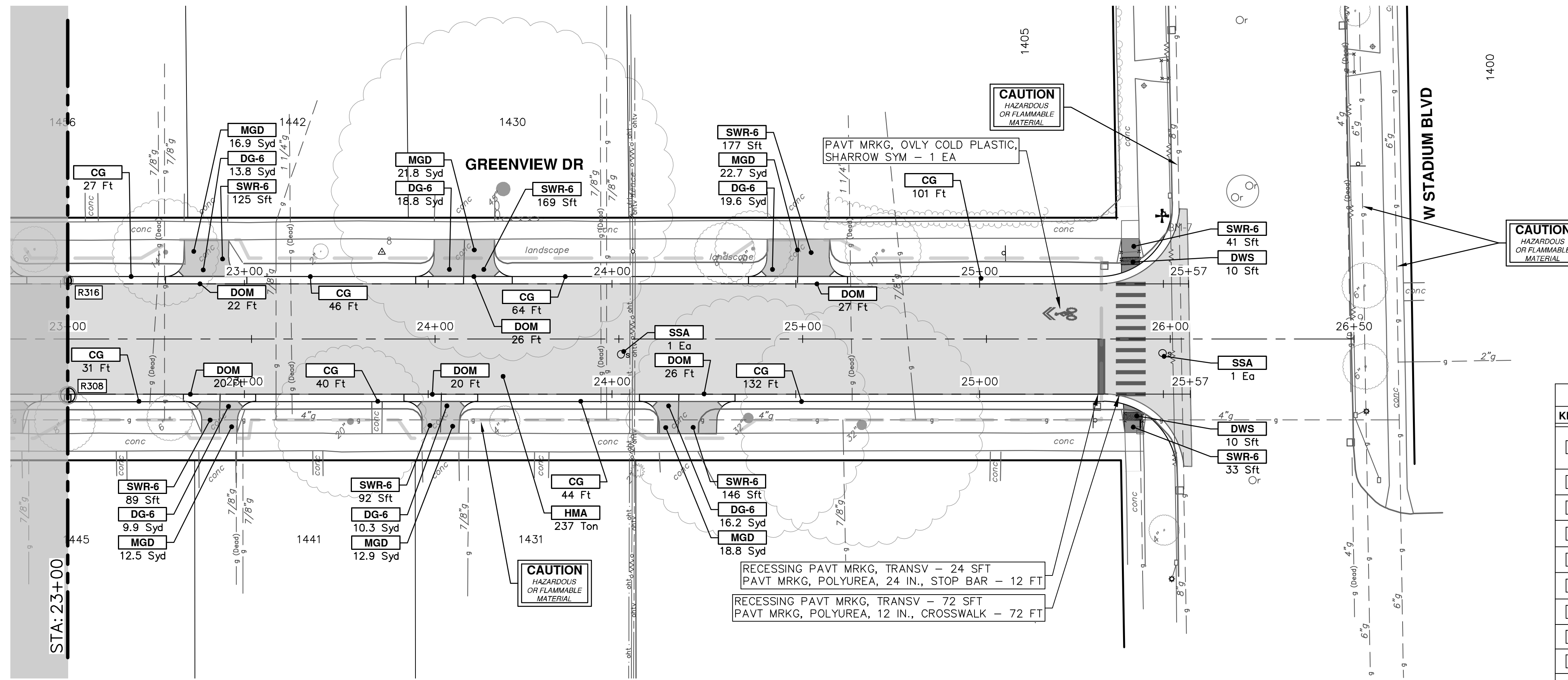
STA. 18+50 - STA. 23+00

PROFILE: 1" = 2'

SCALE PLAN: 1" = 20'

DRAWING NO. 2020031-63

SHEET NO. 63 OF 92



CONSTRUCTION KEY	
KEY	DESCRIPTION
HMA	PLACE HMA, PLACE MATERIAL IN LIFTS ACCORDING TO THE TYPICAL SECTION AND AS DIRECTED BY THE ENGINEER.
HMA APP	HMA Approach
HP	Hand Patching
CG	Conc, Curb or Curb & Gutter, All Types
DOM	Conc, Driveway Opening, Type M
DOM-HE	Conc, Driveway Opening, Type M, High Early
DG-6	Aggregate Base, 6 in., 21AA, CIP
MGD	DS_Driveway Grading
SW-4	Conc, Sidewalk, 4 in.
SWR-6	Conc, Sidewalk, Drive Approach, or Ramp, 6 in.
SW6-HE	Conc, Sidewalk, Drive Approach, or Ramp, 6 in., High Early
DWS	Detectable Warning Surface
ABO	ADJUST BY OTHERS
AMB	Monument Box, Adjust
AGB	Gate Box, Adjust
RSA	Storm Structure Cover, Adjust
SSA	Sanitary Structure Cover, Adjust
WSA	Water Structure Cover, Adjust

**CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING**

**S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS**

ROAD PLAN & PROFILE - GREENVIEW DRIVE NORTH

STA. 23+00 - STA. 26+50

SCALE PLAN: 1" = 20'  
PROFILE: 1" = 2'

DRAWING NO. 2020031-64

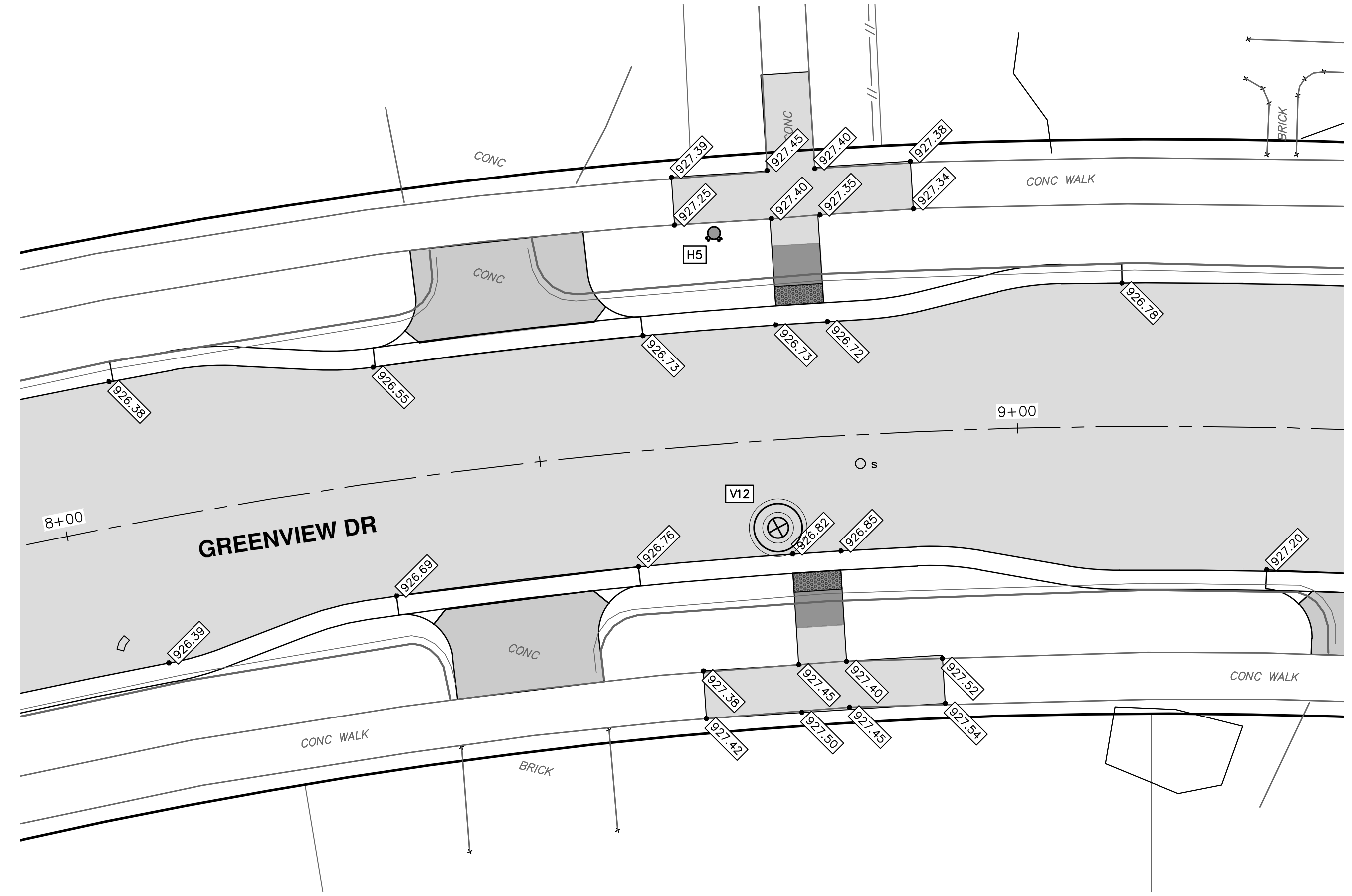
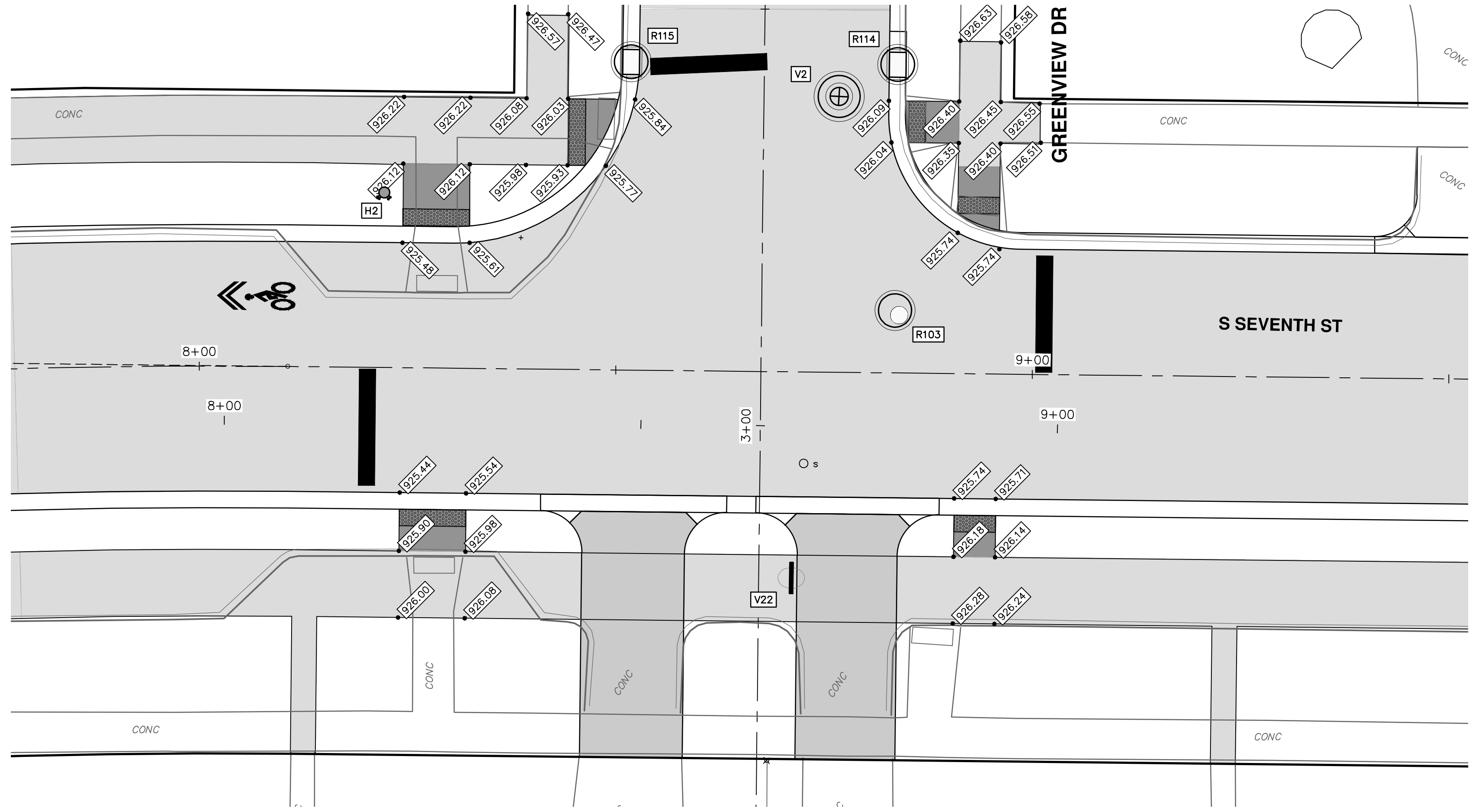
SHEET NO. 64 OF 92

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REV.	DATE	DESCRIPTION
01	2-14-24	ADDENDUM 1
00	1-30-24	BID SET

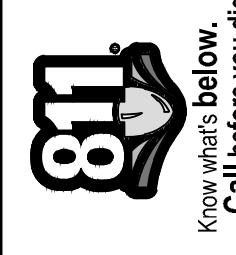
ANN ARBOR  
301 EAST HURON STREET  
ANN ARBOR, MI 48106-8647  
ANN ARBOR  
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R:\2020031 S 7th Street\Plan Production\2020031G1.dwg Dwg Created: 30-Jan-24 - \_a2 standard bw.stb - Plot Date: 14-Feb-24

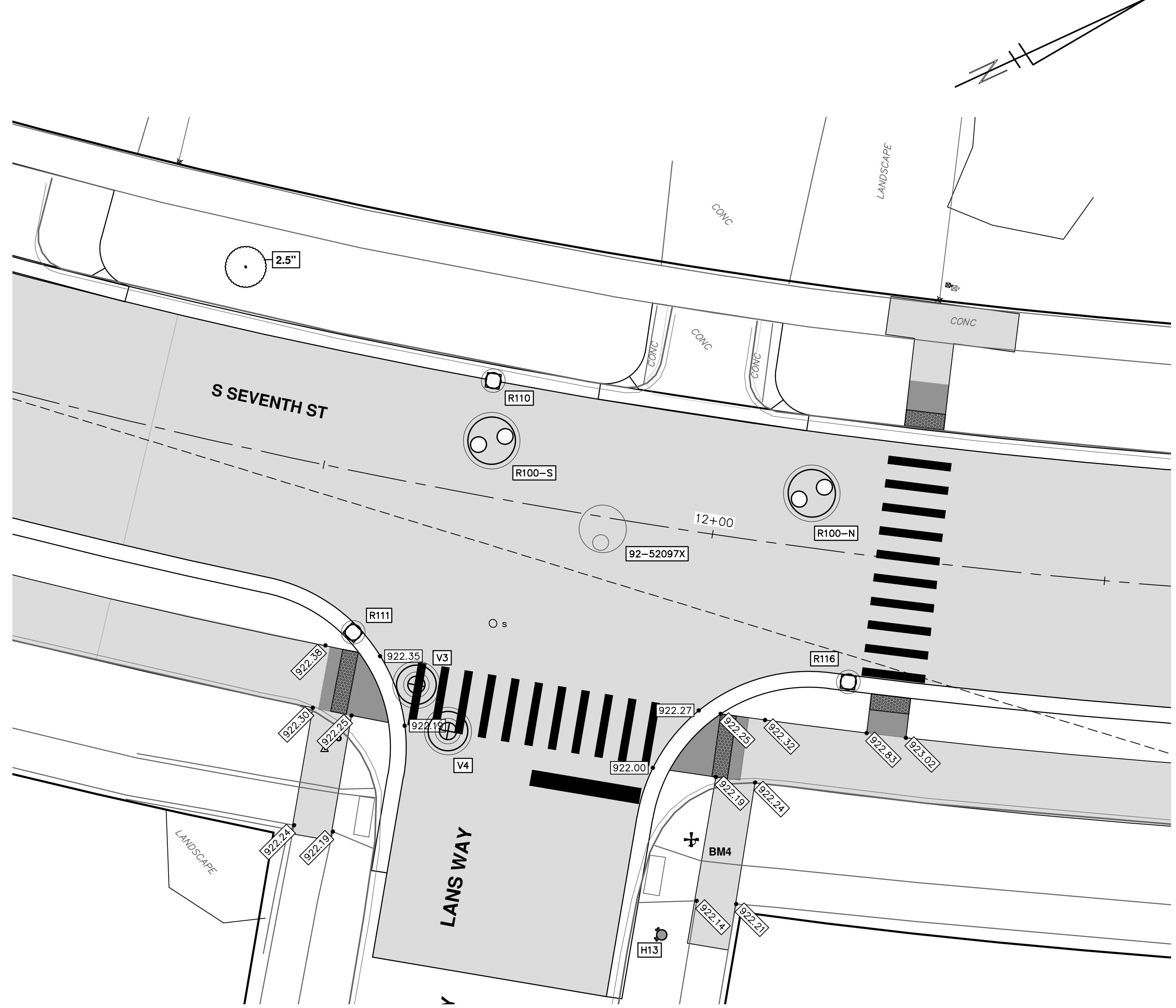
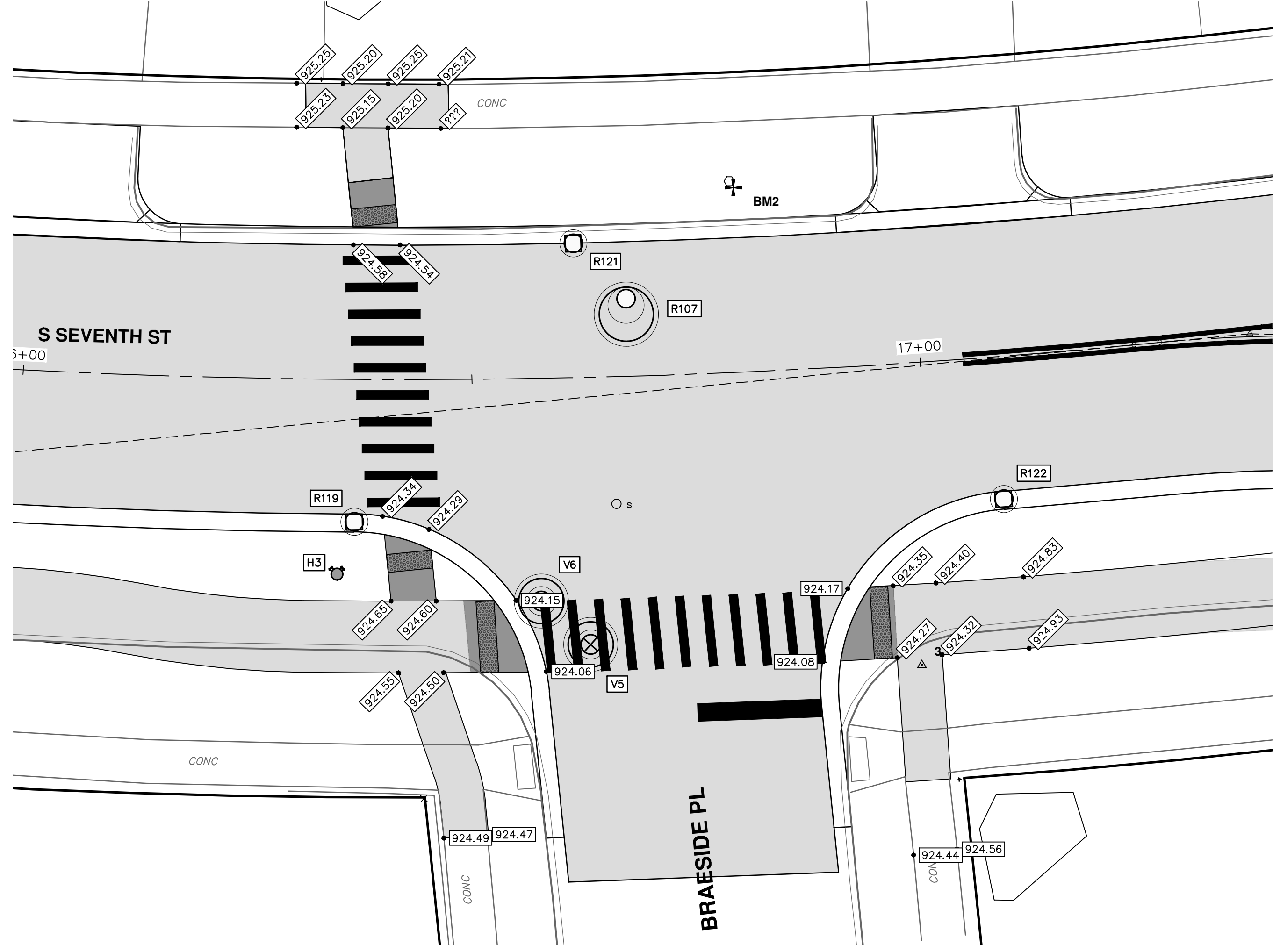


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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
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00	BID SET	1-30-24	A2D	TA



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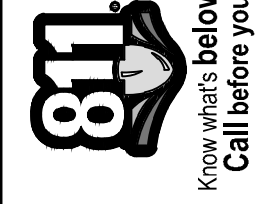
SHEET No.  
66 OF 92

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 S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS  
 INTERSECTION GRADES - S SEVENTH ST & GREENVIEW DR SOUTH  
 S SEVENTH & BRAESIDE PL, GREENVIEW MID BLOCK

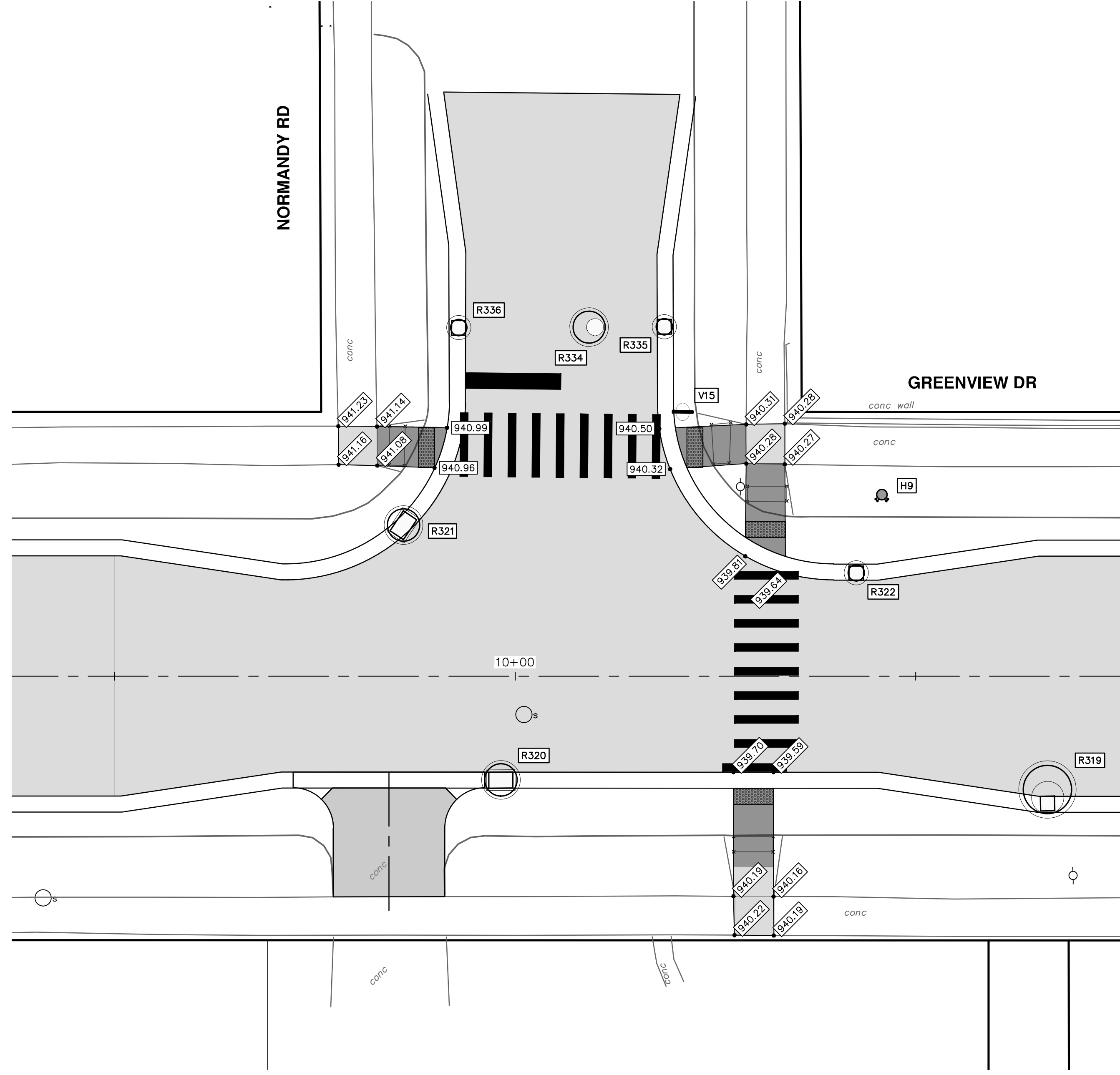
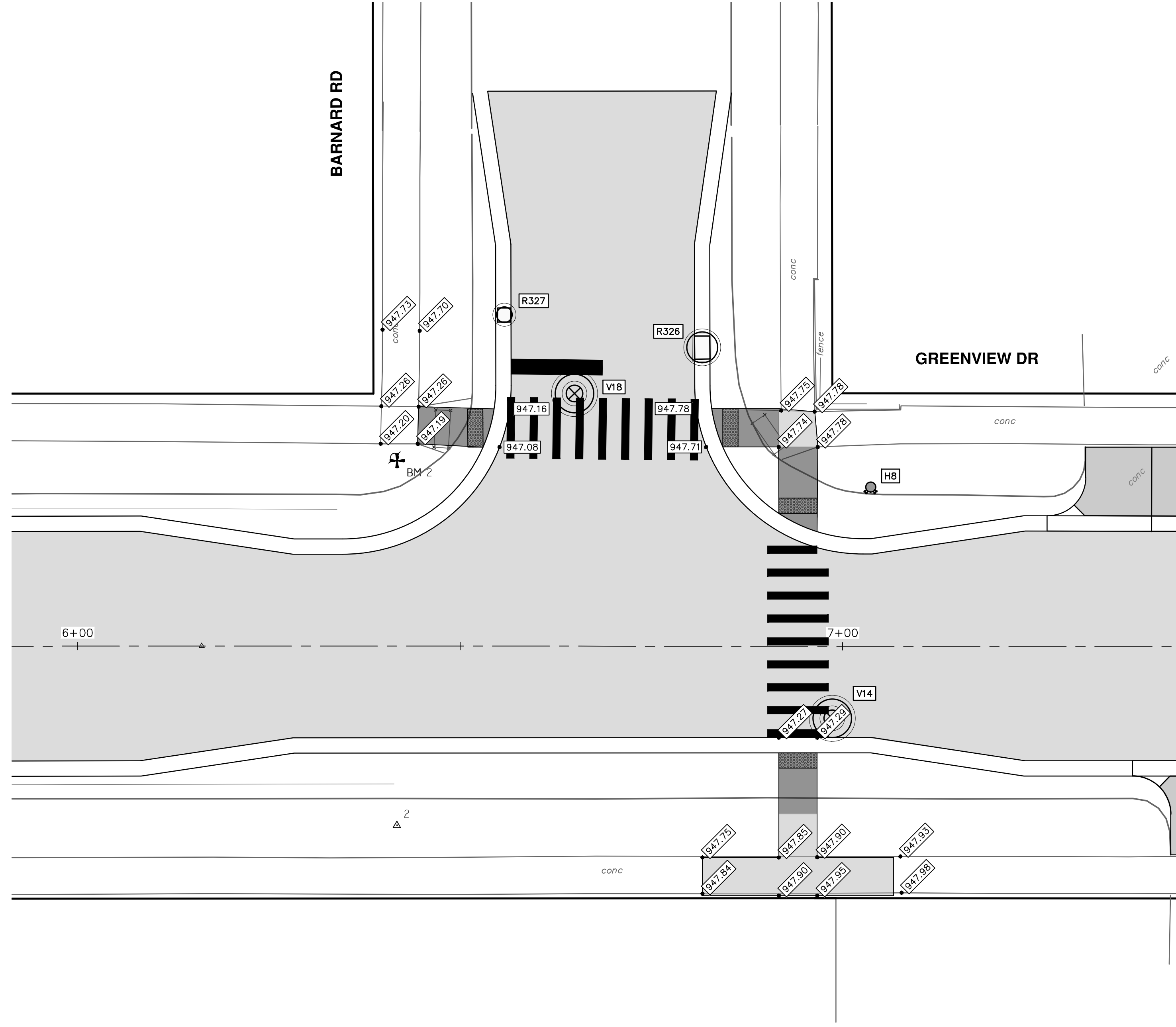


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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	ADDENDUM 1	2-14-24	A2D	TA
00	BID SET	1-30-24	A2D	TA



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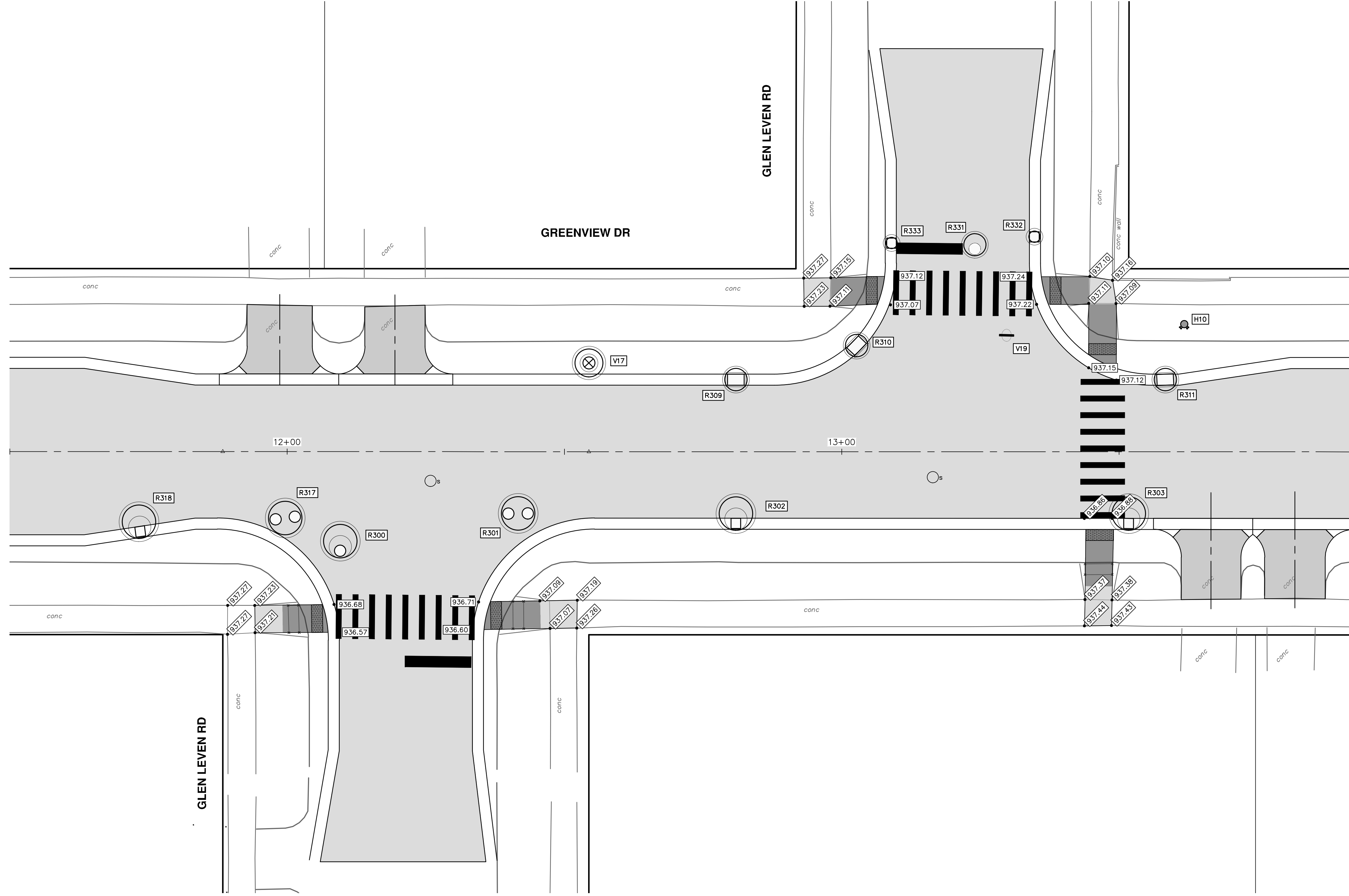
CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING  
 S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS  
 INTERSECTION GRADES - GREENVIEW DRIVE NORTH  
 BARNARD RD NORMANDY RD

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01 ADDENDUM 1 2-14-24 A2D TA  
 00 BID SET 1-30-24 A2D TA  
 REV. DATE DESCRIPTION

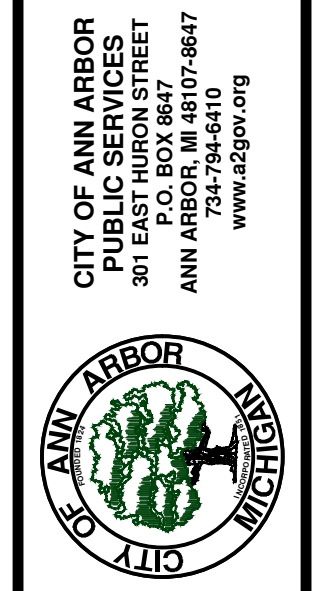
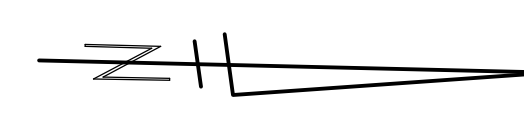
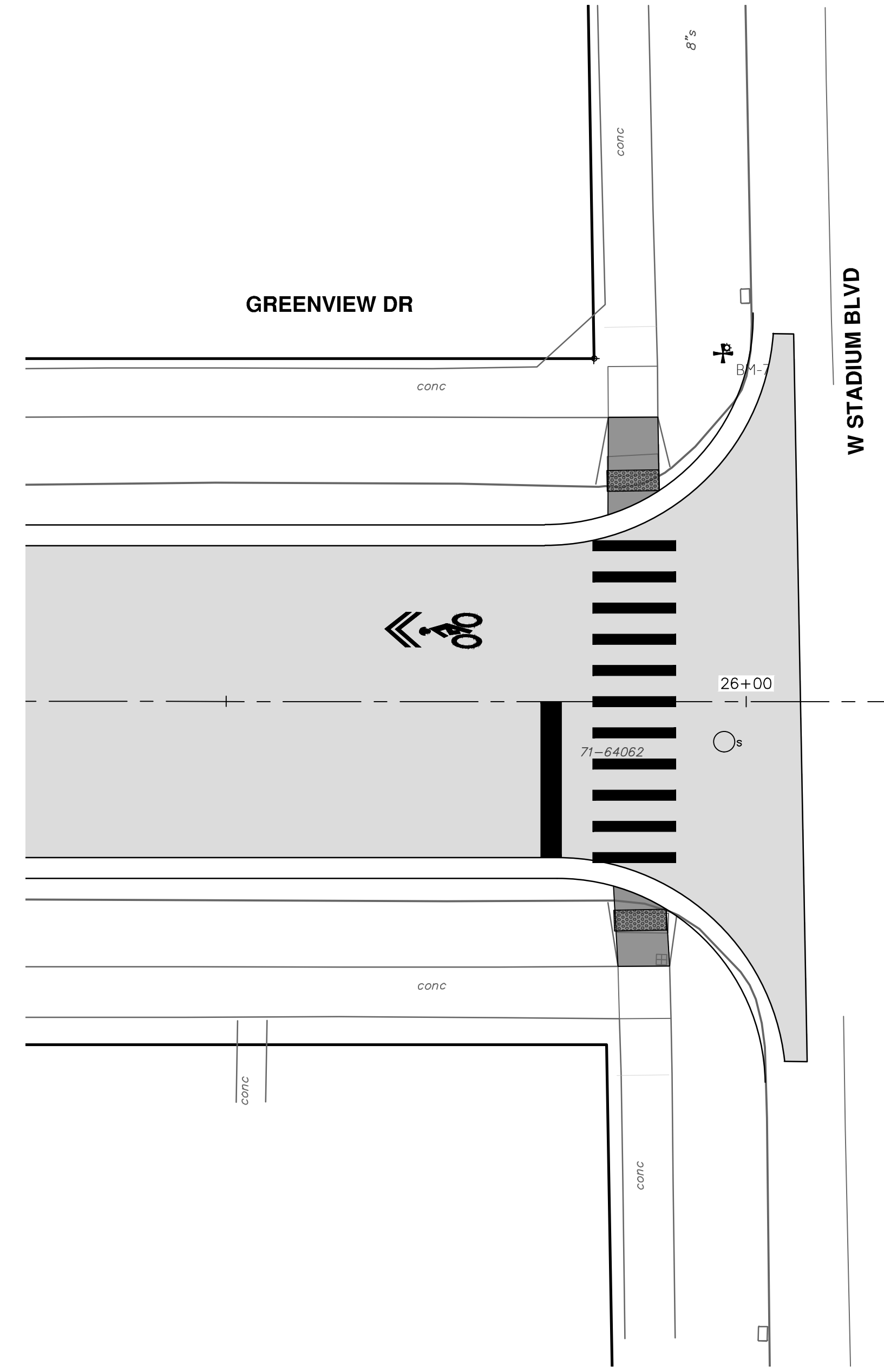
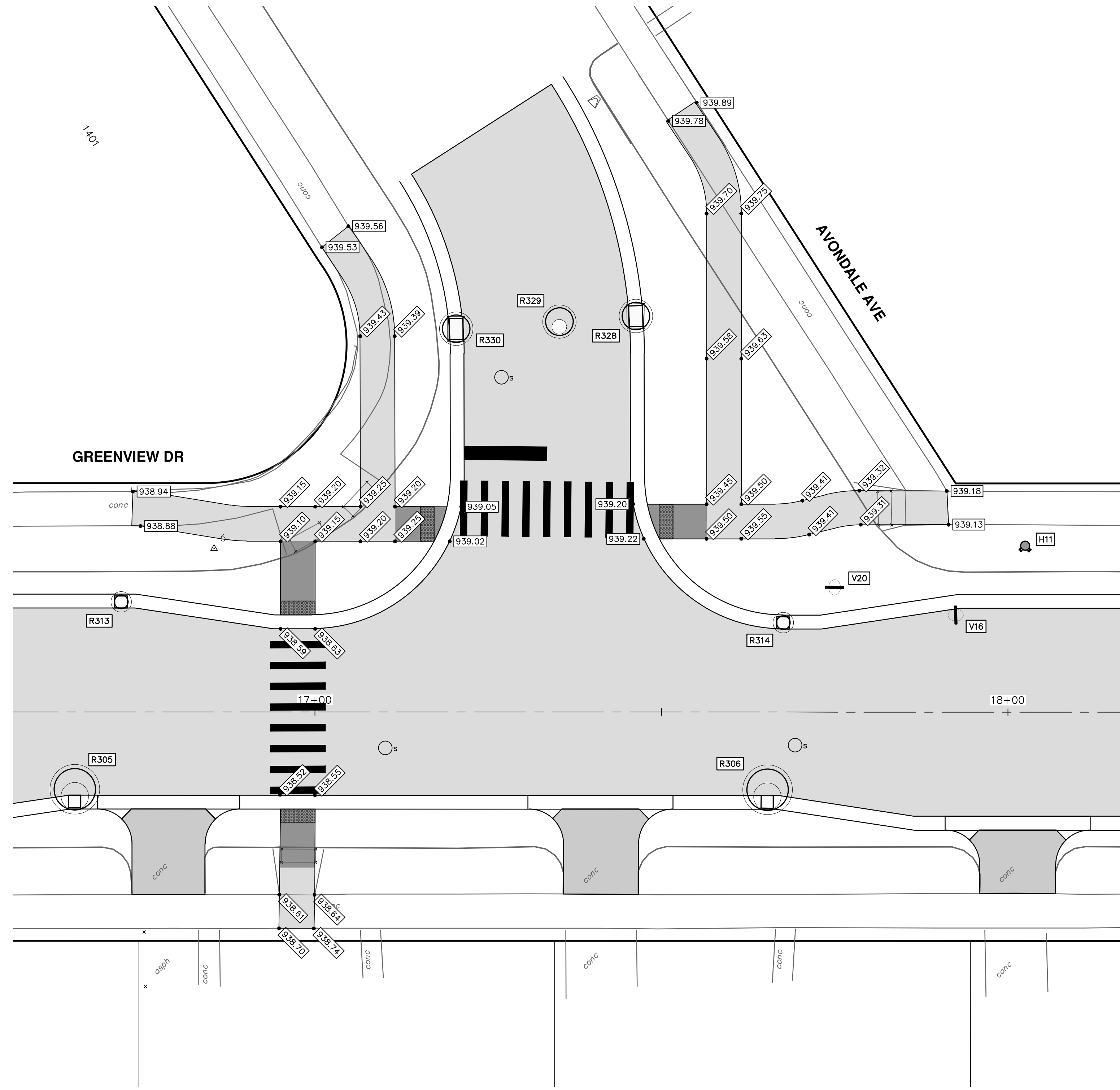
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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
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00	BID SET	1-30-24	A2D	TA

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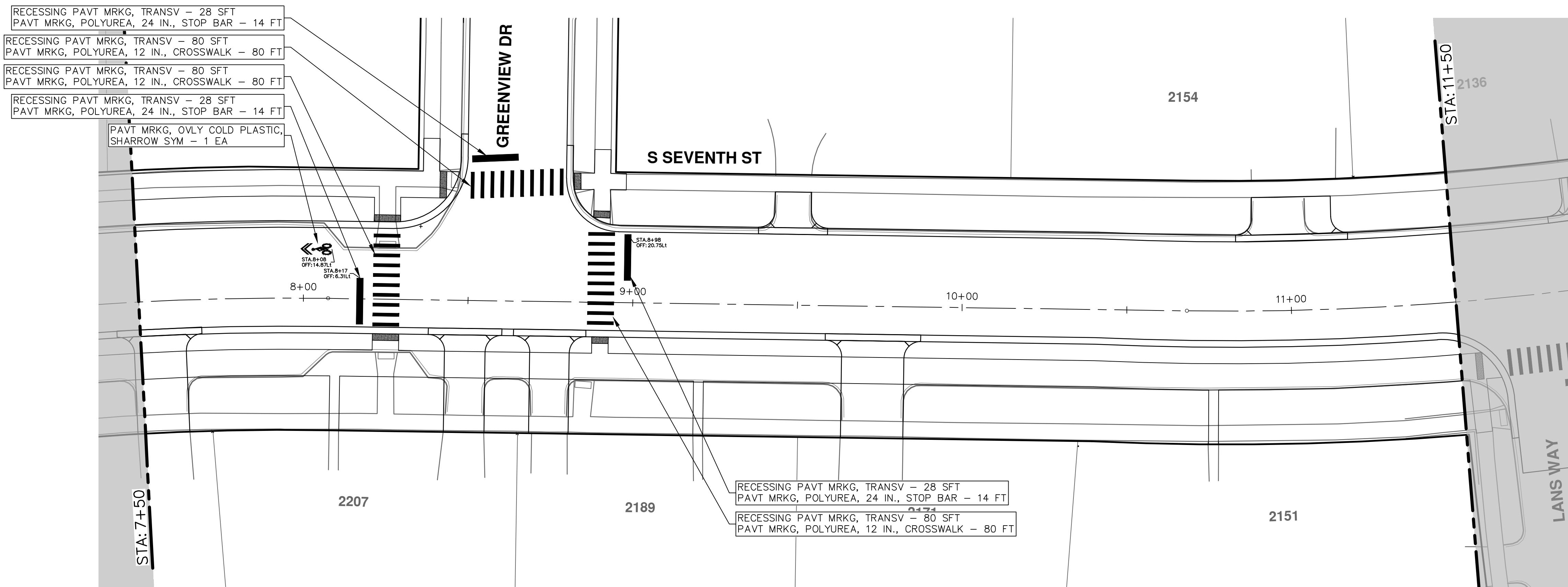
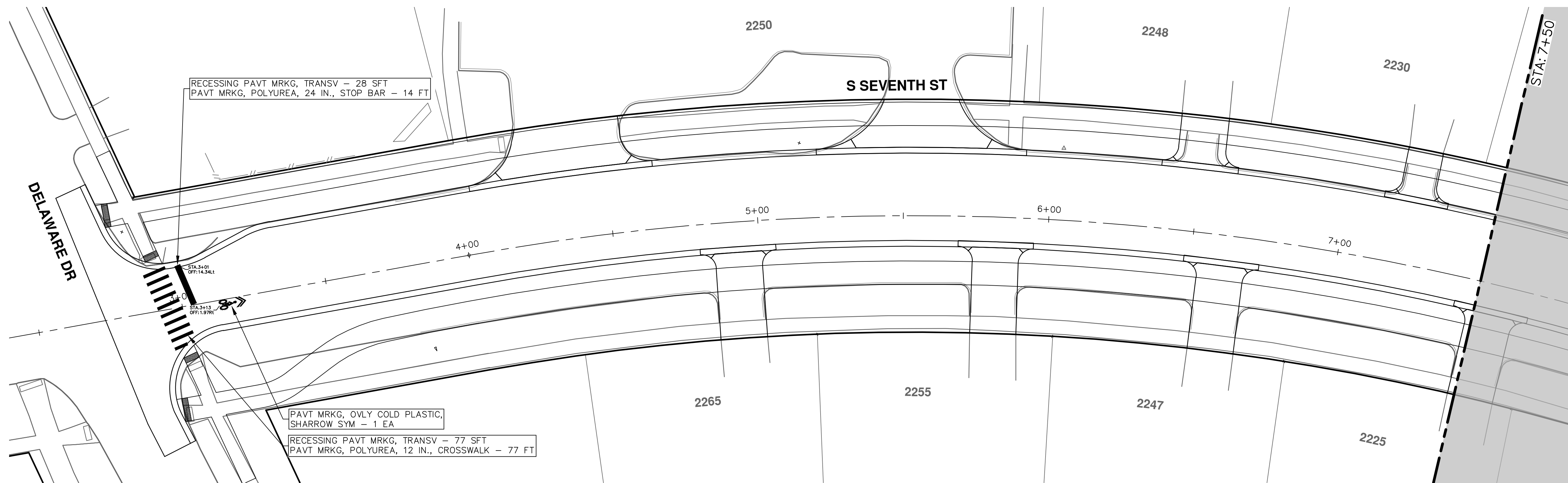


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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	ADDENDUM 1	2-14-24	A2D	TA
00	BID SET	1-30-24	A2D	TA



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**S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS**


PAVEMENT MARKINGS - S. SEVENTH STREET

STA. 3+00 - STA. 11+50

SCALE: 1" = 20'

DRAWING No. 2020031-70

SHEET No. 70 OF 92



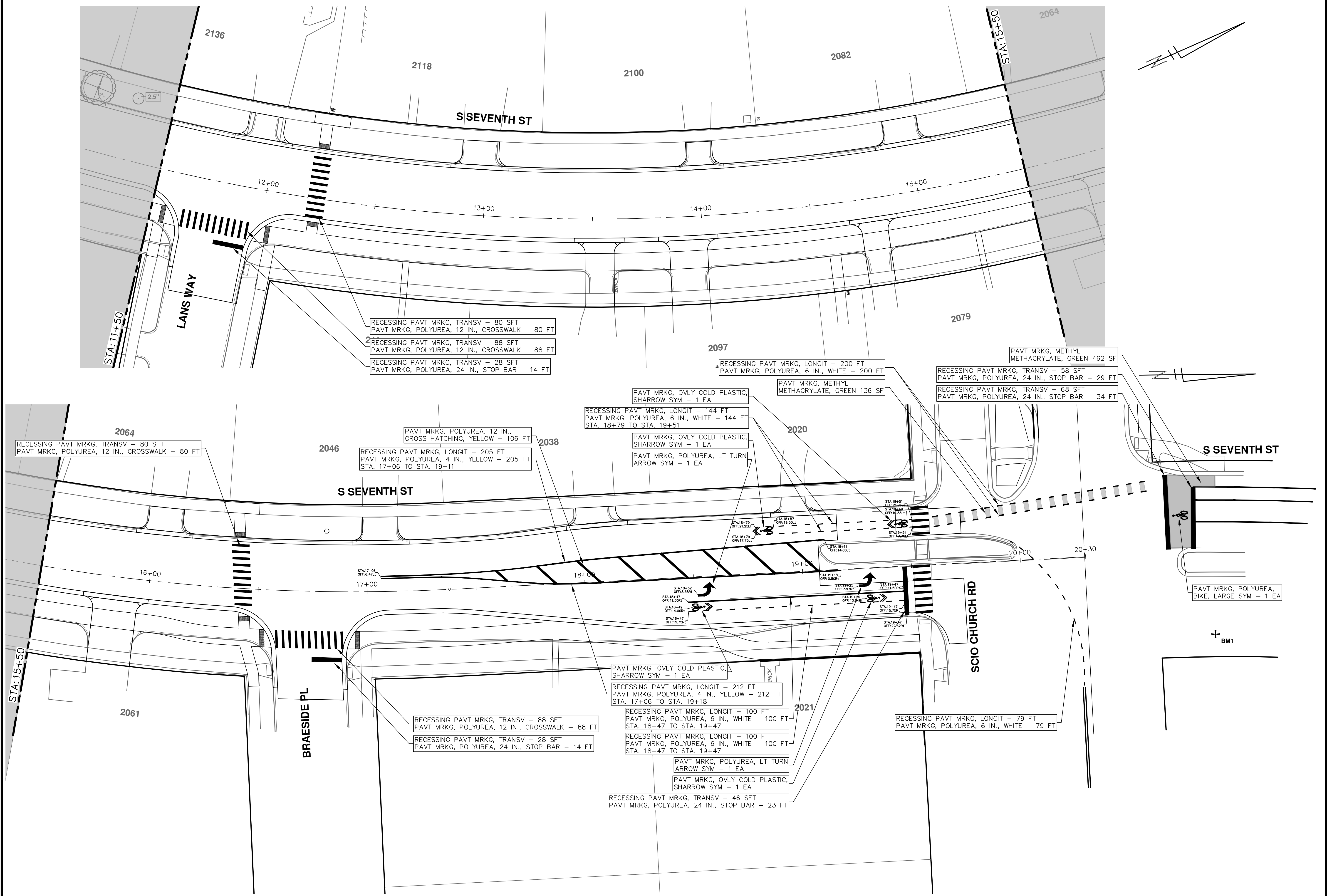
CITY OF ANN ARBOR  
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ANN ARBOR, MI 48106-8647  
ANN ARBOR 734-794-4410  
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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	ADDENDUM 1	2-14-24	A2D	TA
00	BID SET	1-30-24	A2D	TA

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R:\2020031 S 7th Street\Plan Production\2020031Prnk.dwg Dwg Created: 14-Feb-24 - \_o2\_standard bw.stb - Plot Date: 14-Feb-24



**CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING**

**S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS**

PAVEMENT MARKINGS - S. SEVENTH STREET

STA. 11+50 - STA. 21+00

SCALE: 1" = 20'

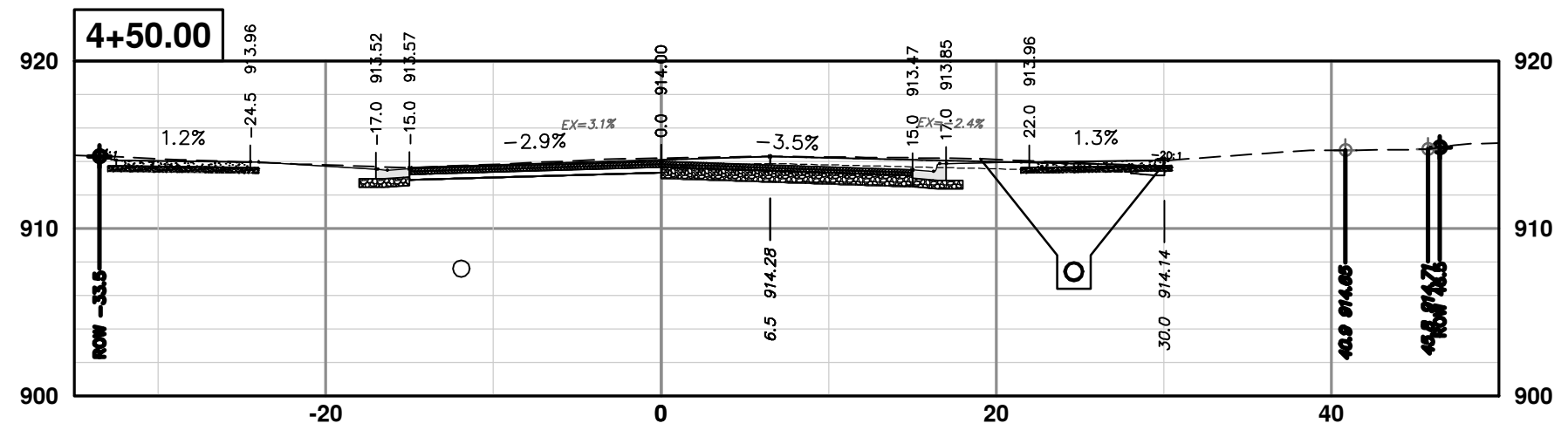
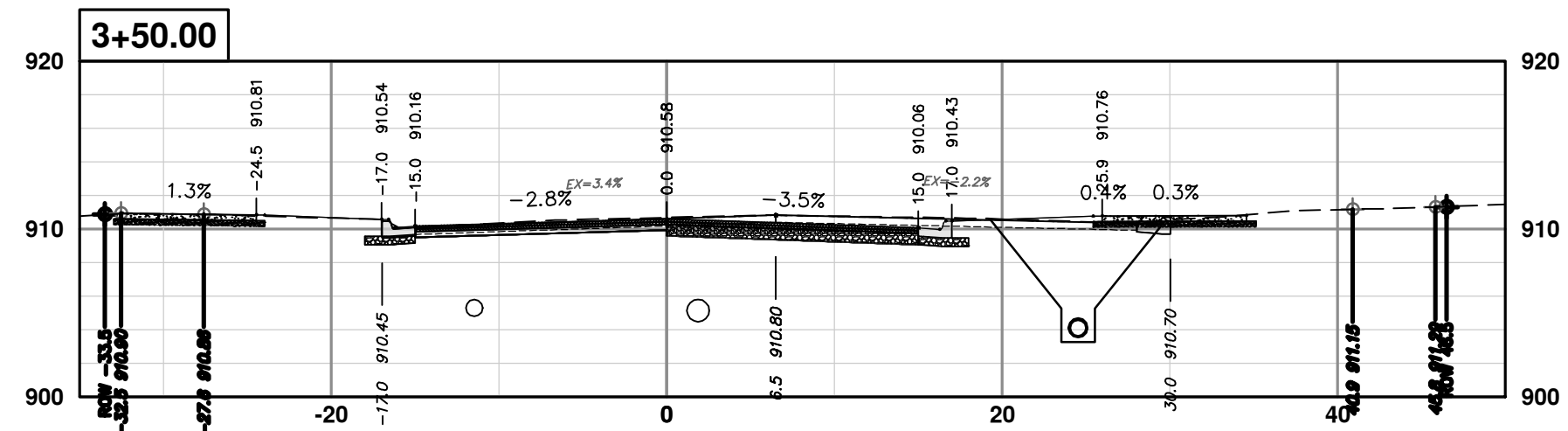
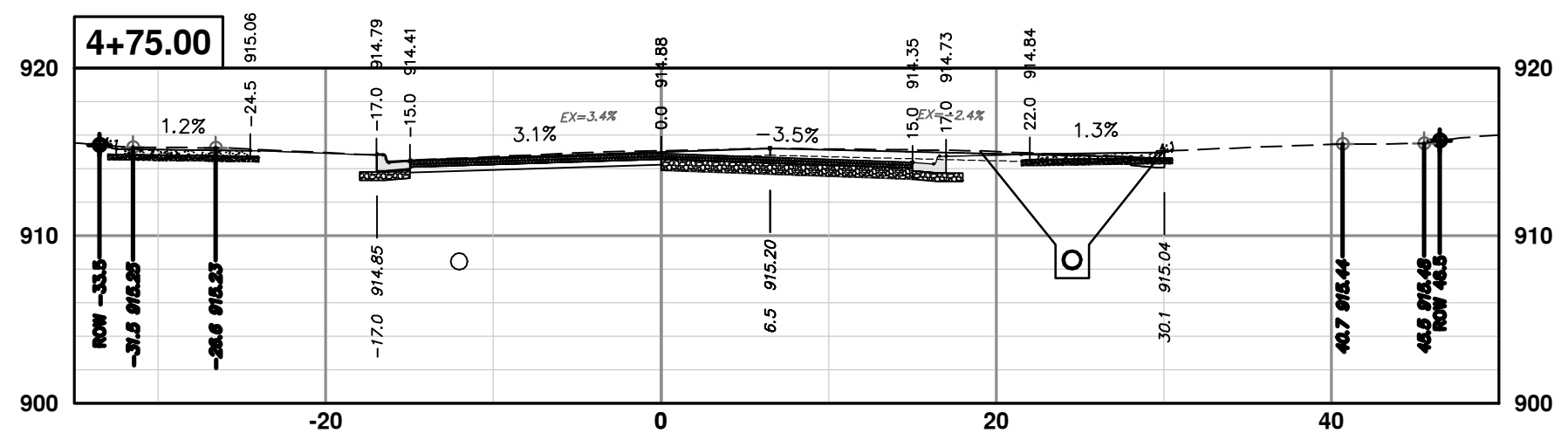
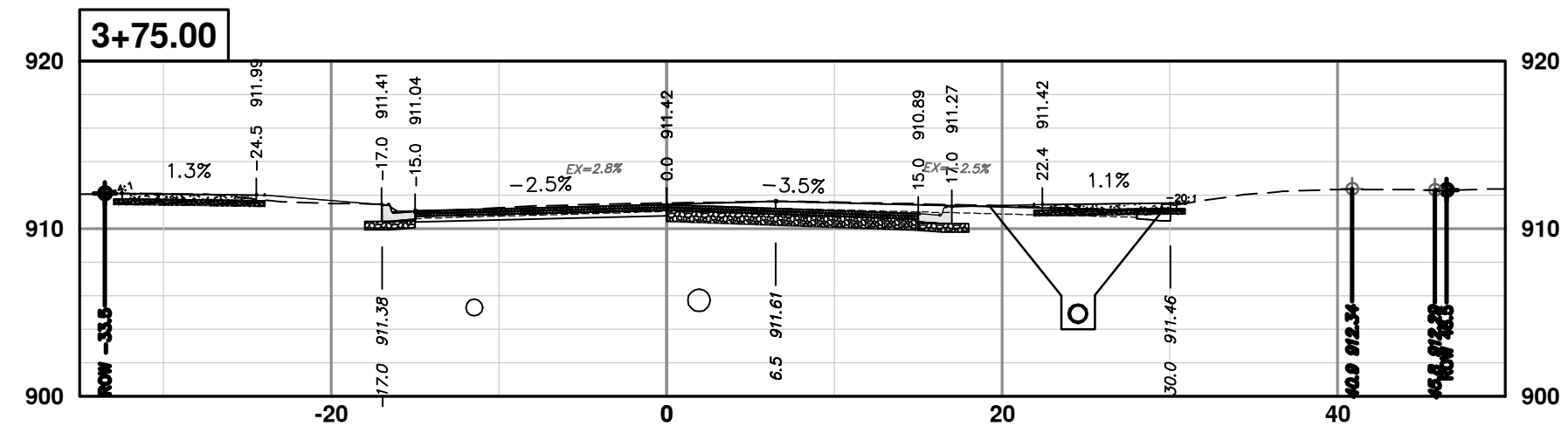
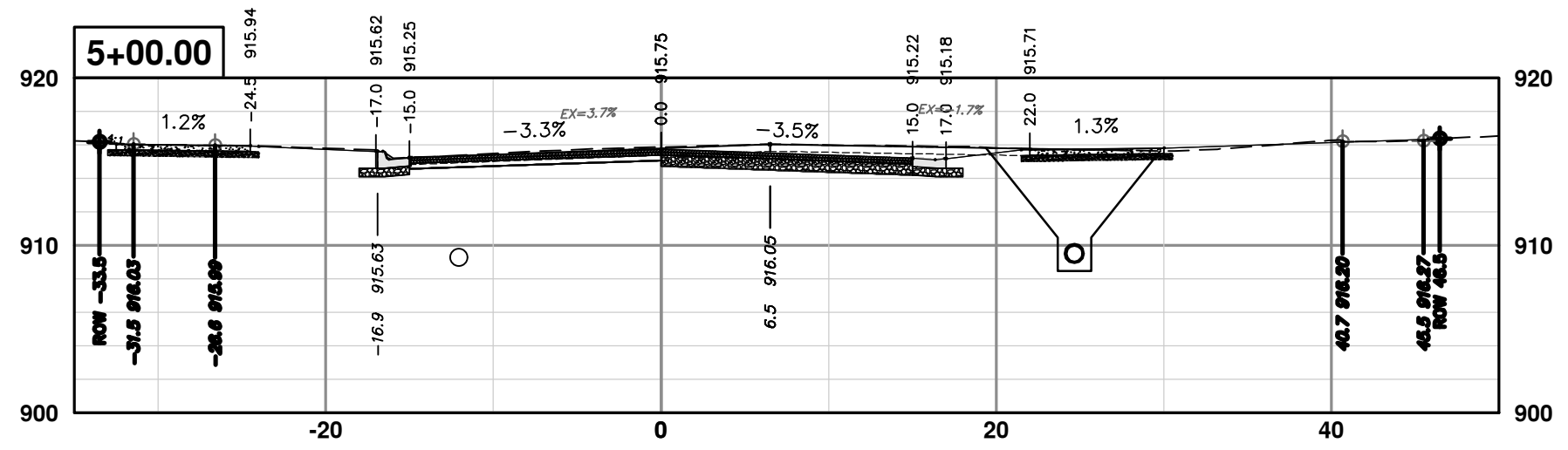
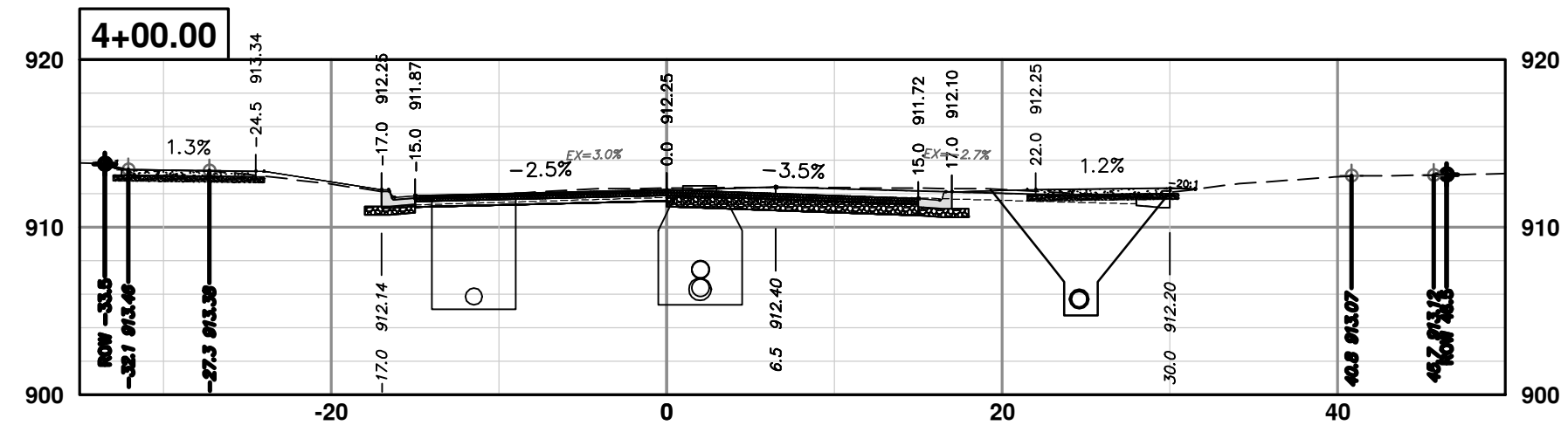
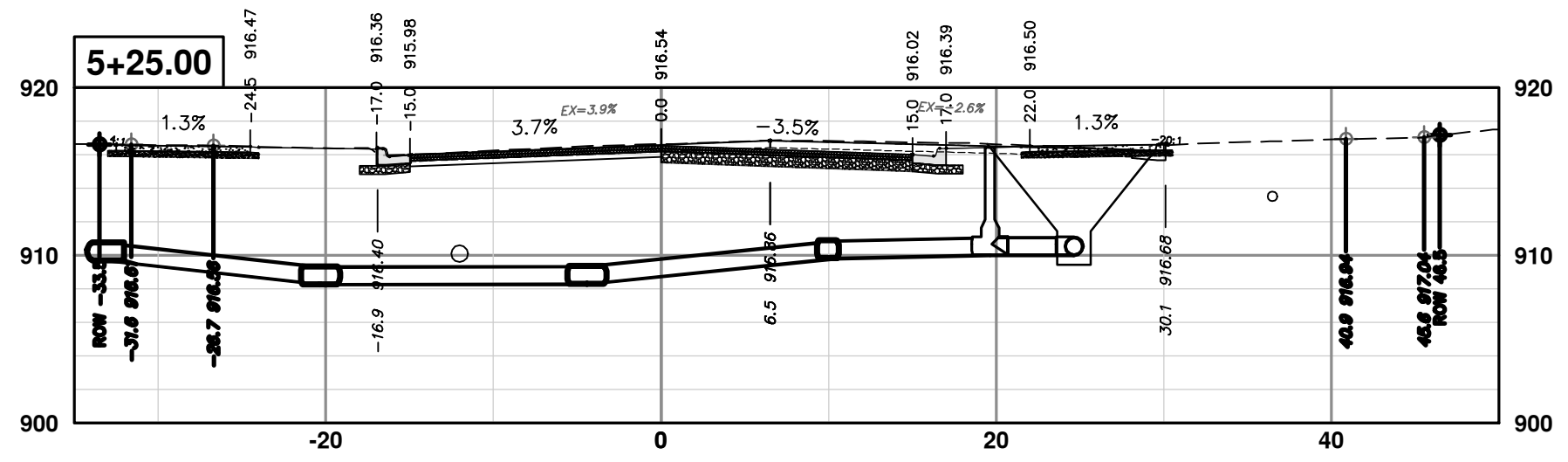
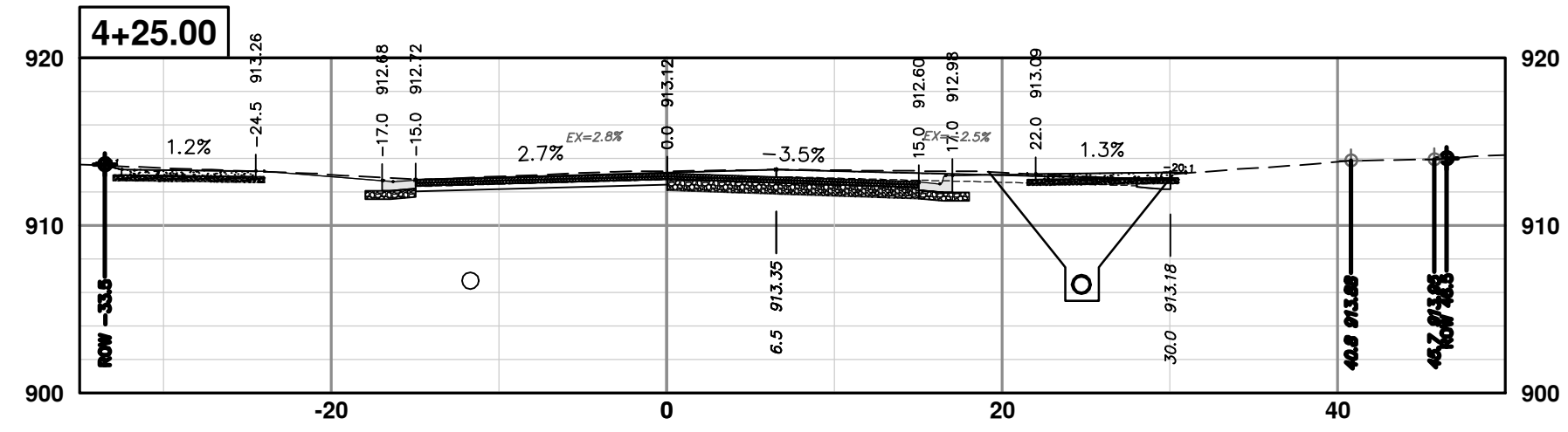
DRAWING No. 2020031-71

SHEET No. 71 OF 92

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01	2-14-24	ADDENDUM 1
00	1-30-24	BID SET

TA TA  
A2D A2D  
DRAWN CHECKED



**CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING**

**S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS**

CROSS-SECTIONS - S. SEVENTH STREET  
STA. 3+50 - STA. 5+25

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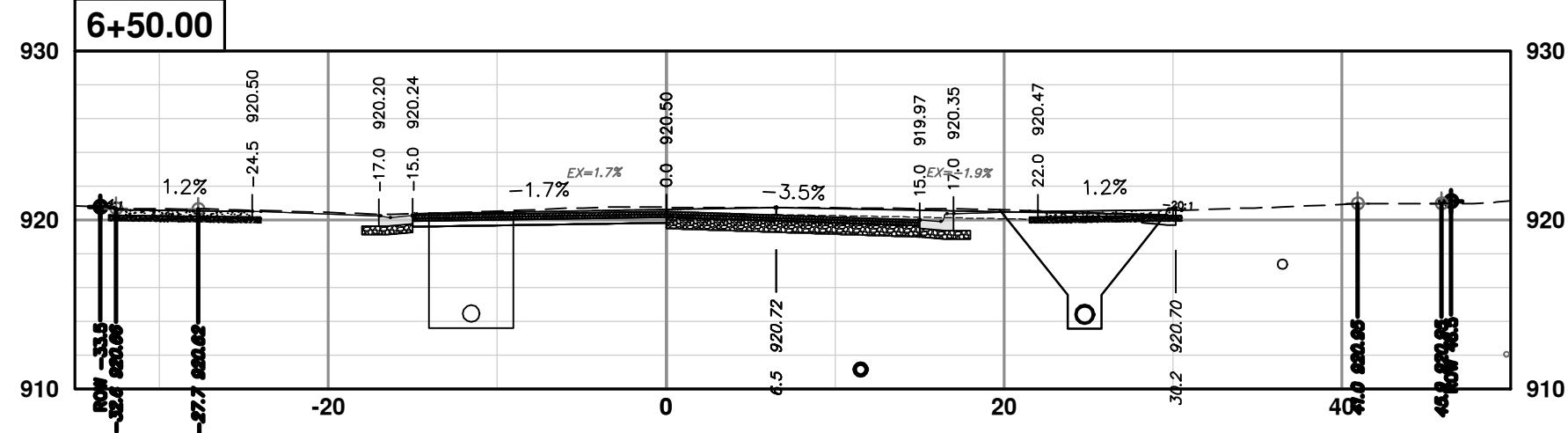
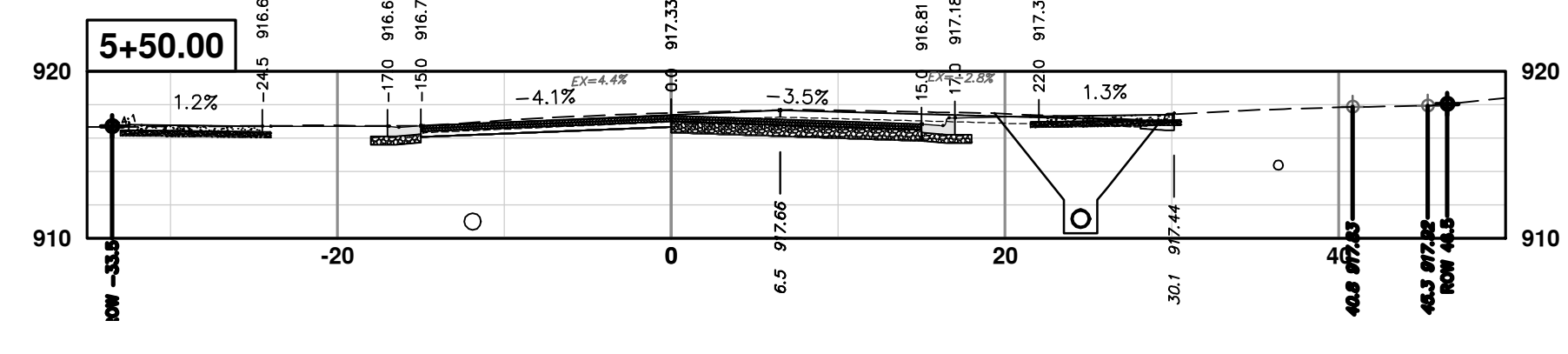
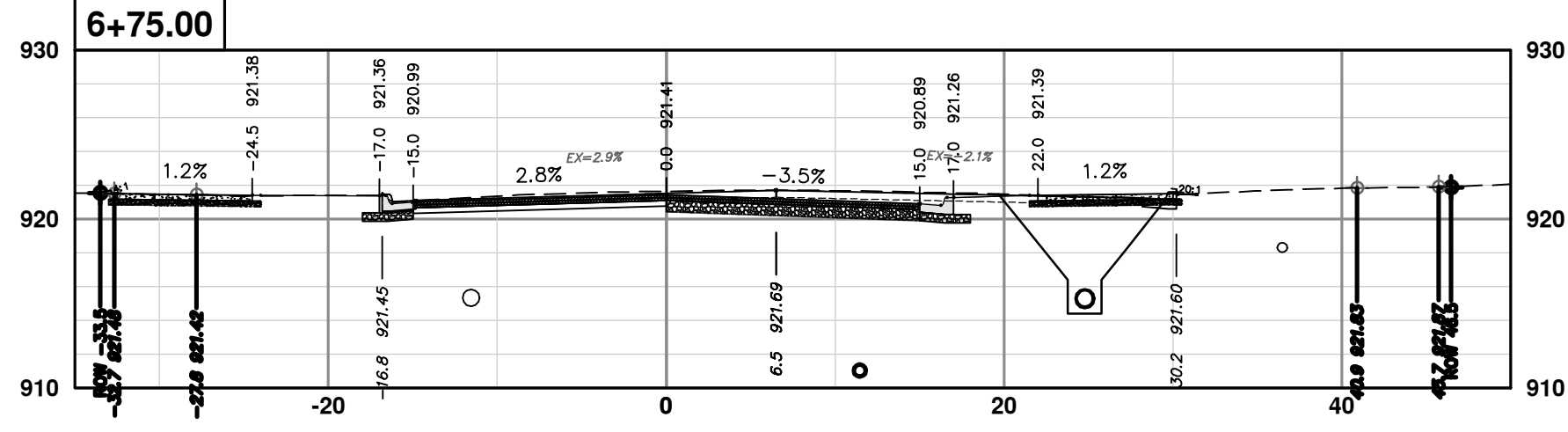
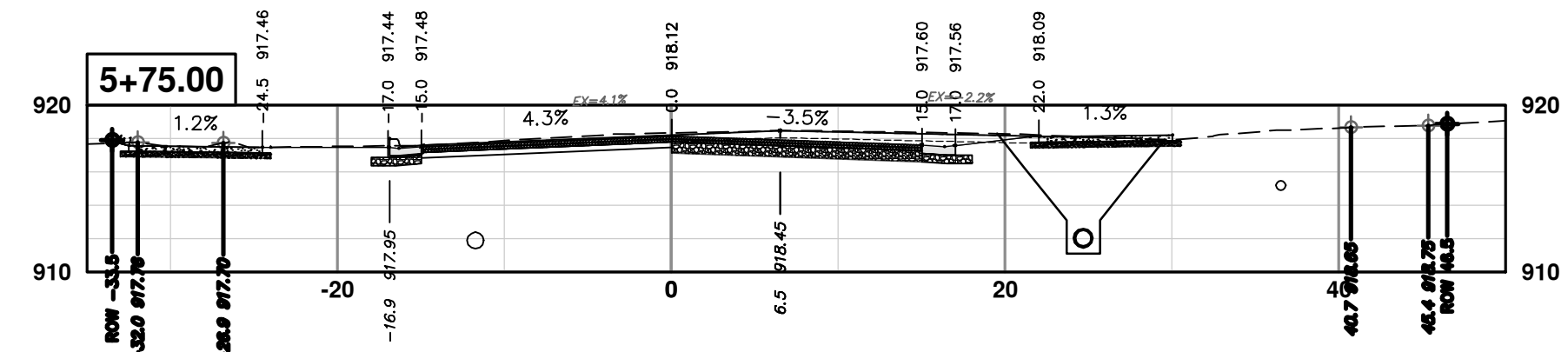
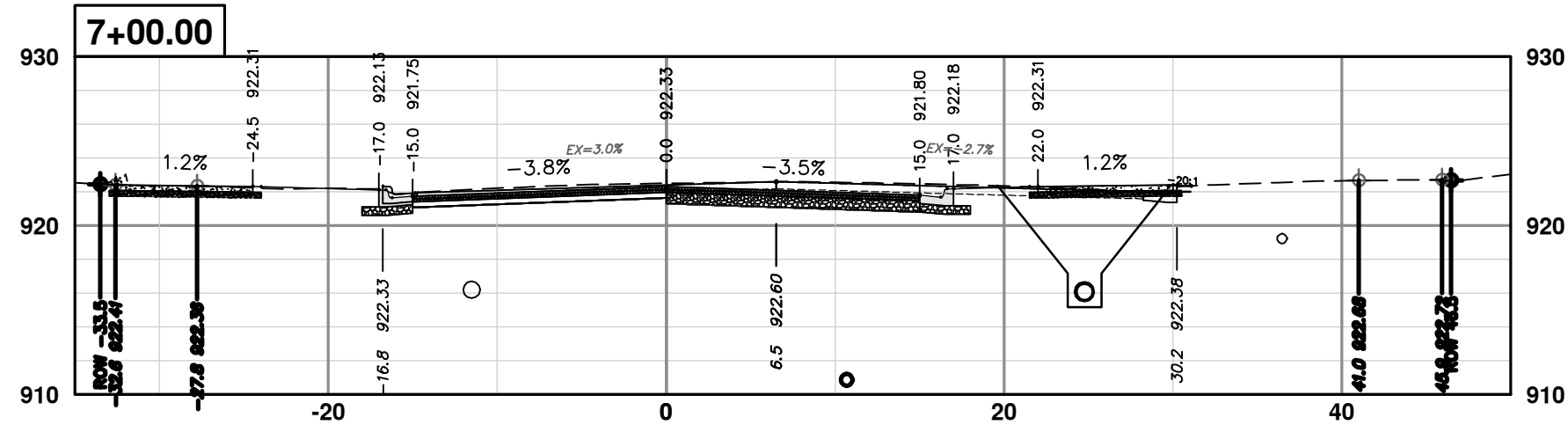
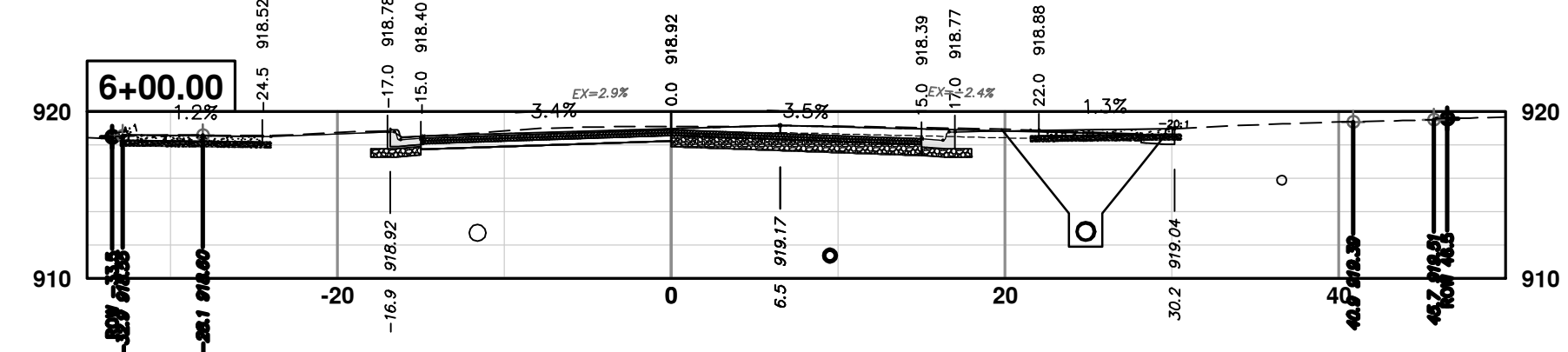
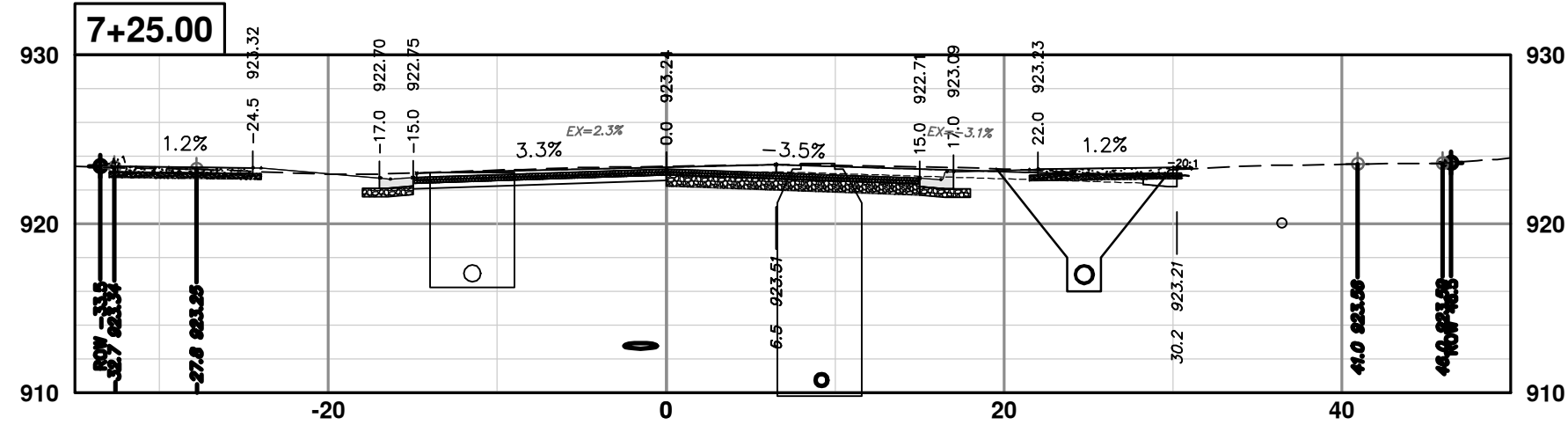
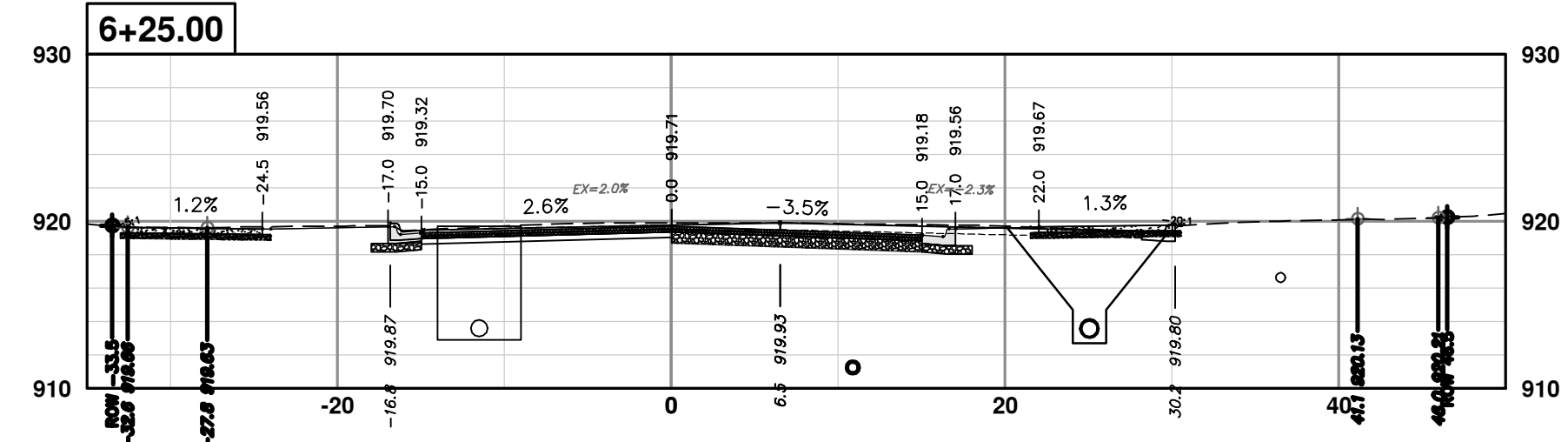
REV.	DATE	DRAWN	CHECKED	DESCRIPTION
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00	1-30-24	A2D	TA	BID SET

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ANN ARBOR 734-794-4410  
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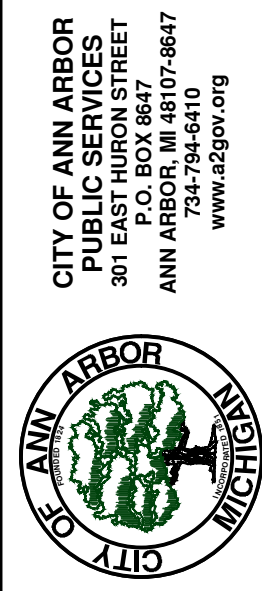
SCALE PLAN: 1" = 10'  
PROFILE: 1" = 10'

DRAWING No. 2020031-72

SHEET No. 72 OF 92



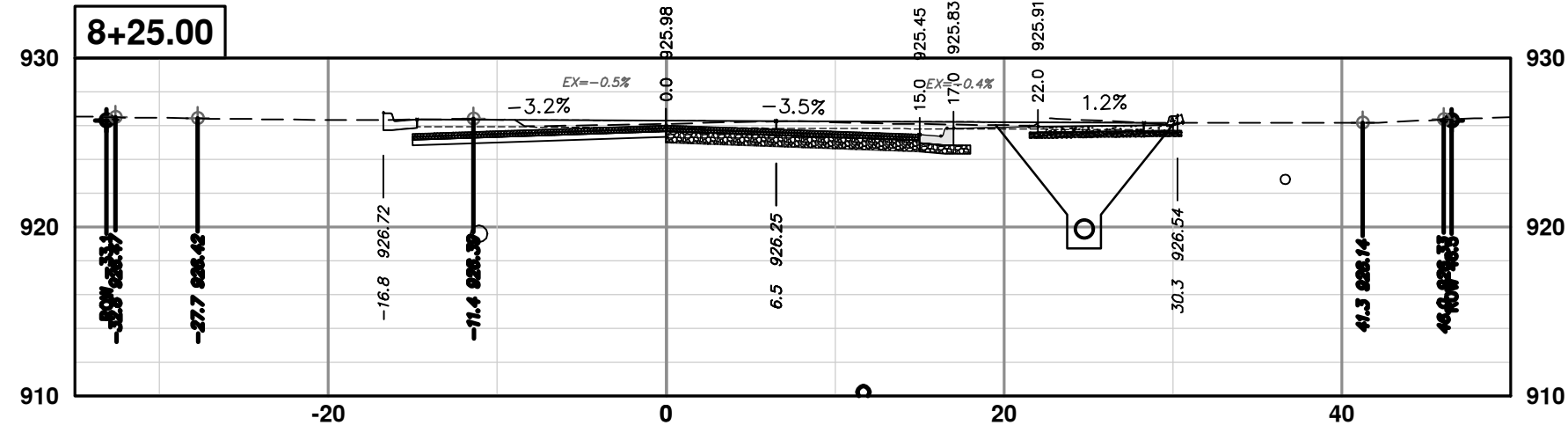
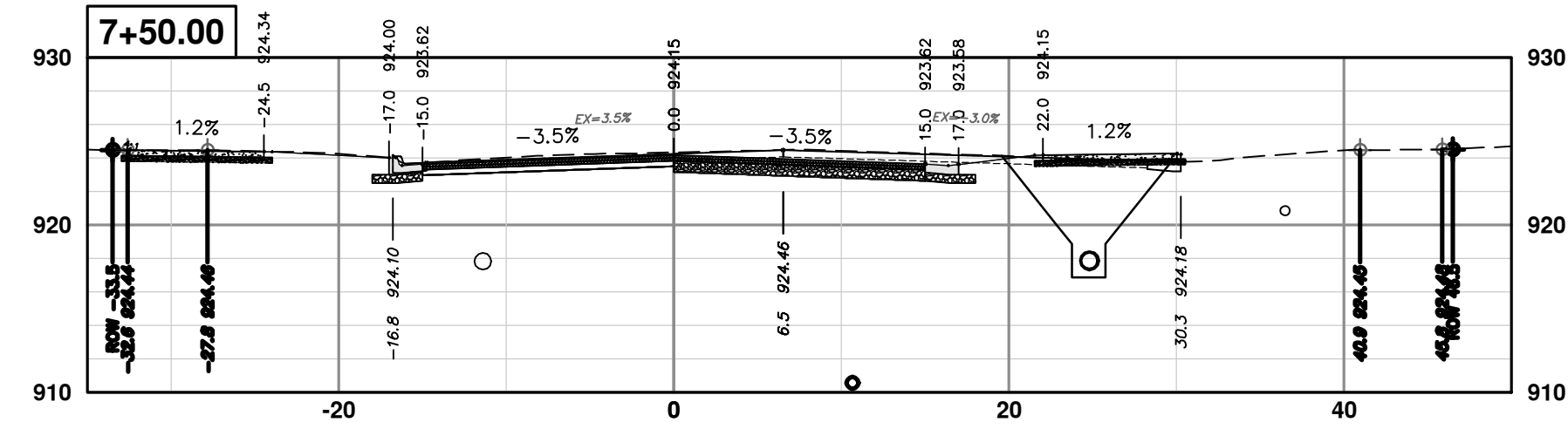
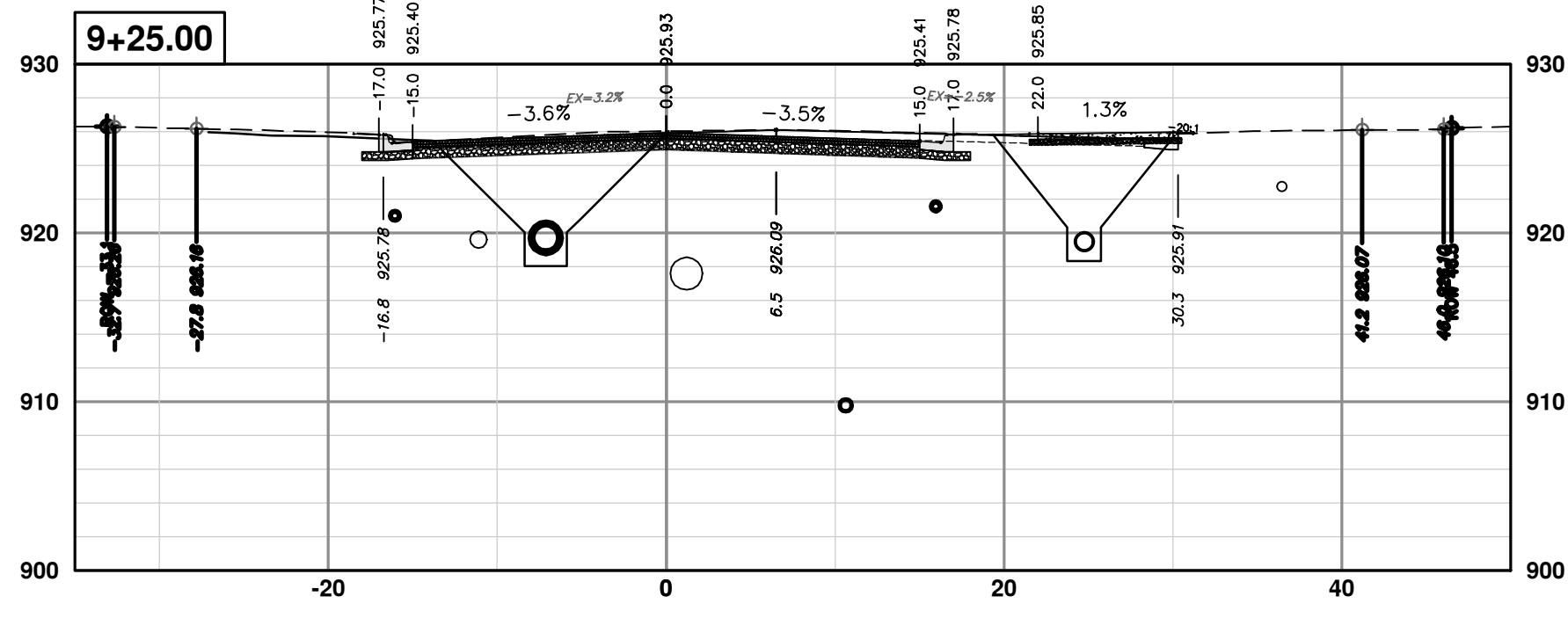
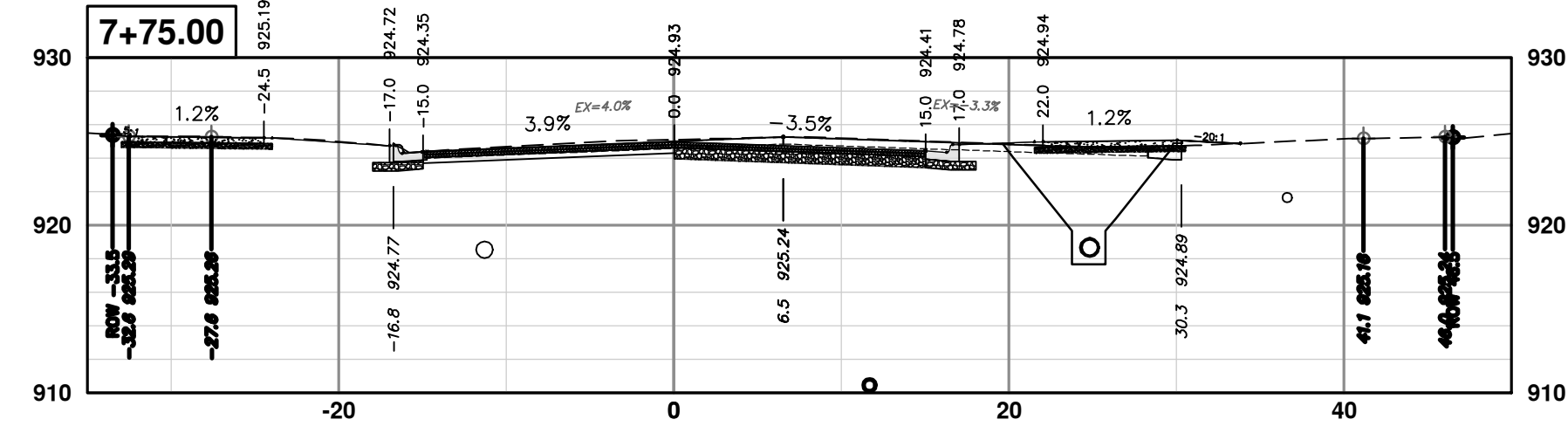
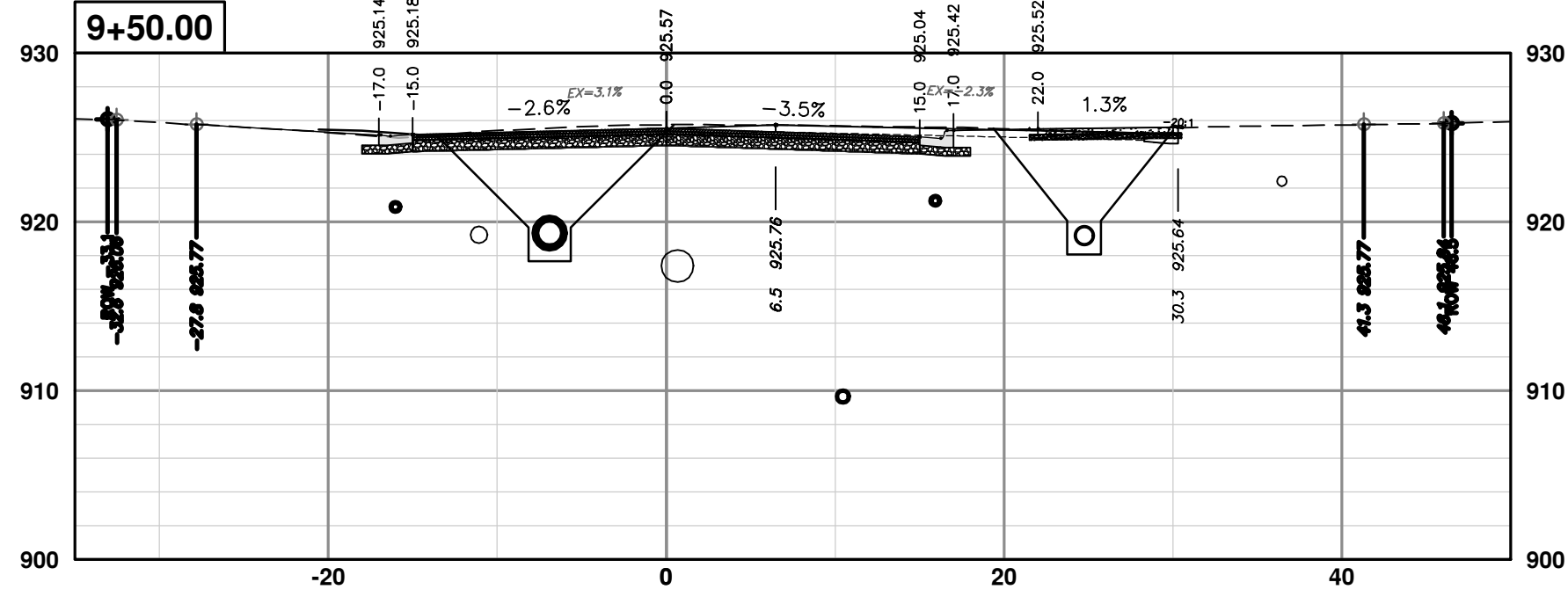
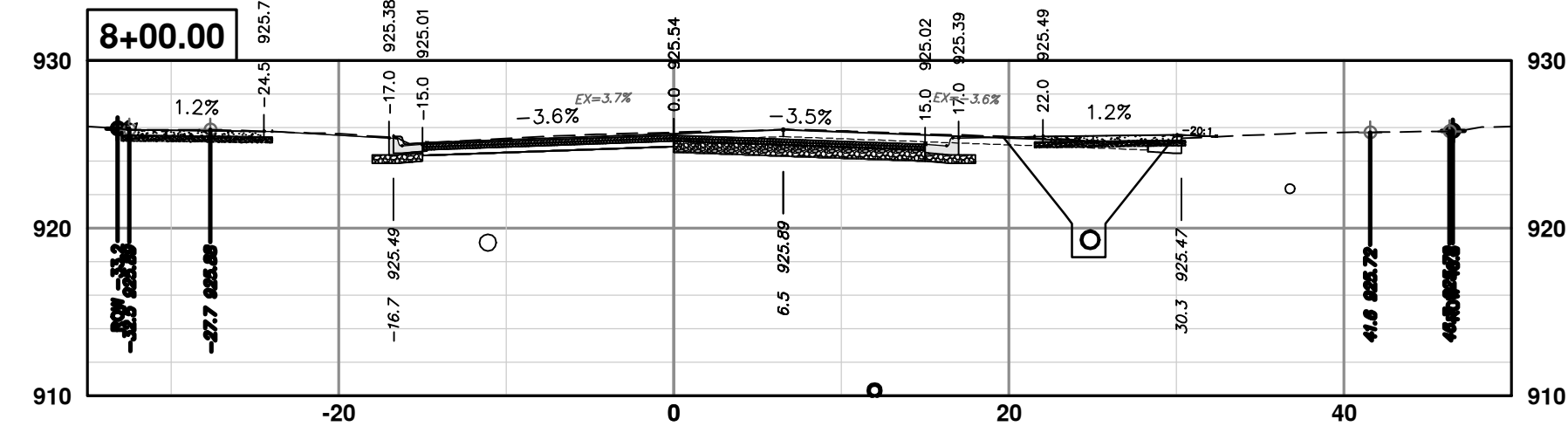
**CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING**  
**S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS**  
 CROSS-SECTIONS - S. SEVENTH STREET  
 STA. 5+50 - STA. 7+25



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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
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00	BID SET	1-30-24	A2D	TA

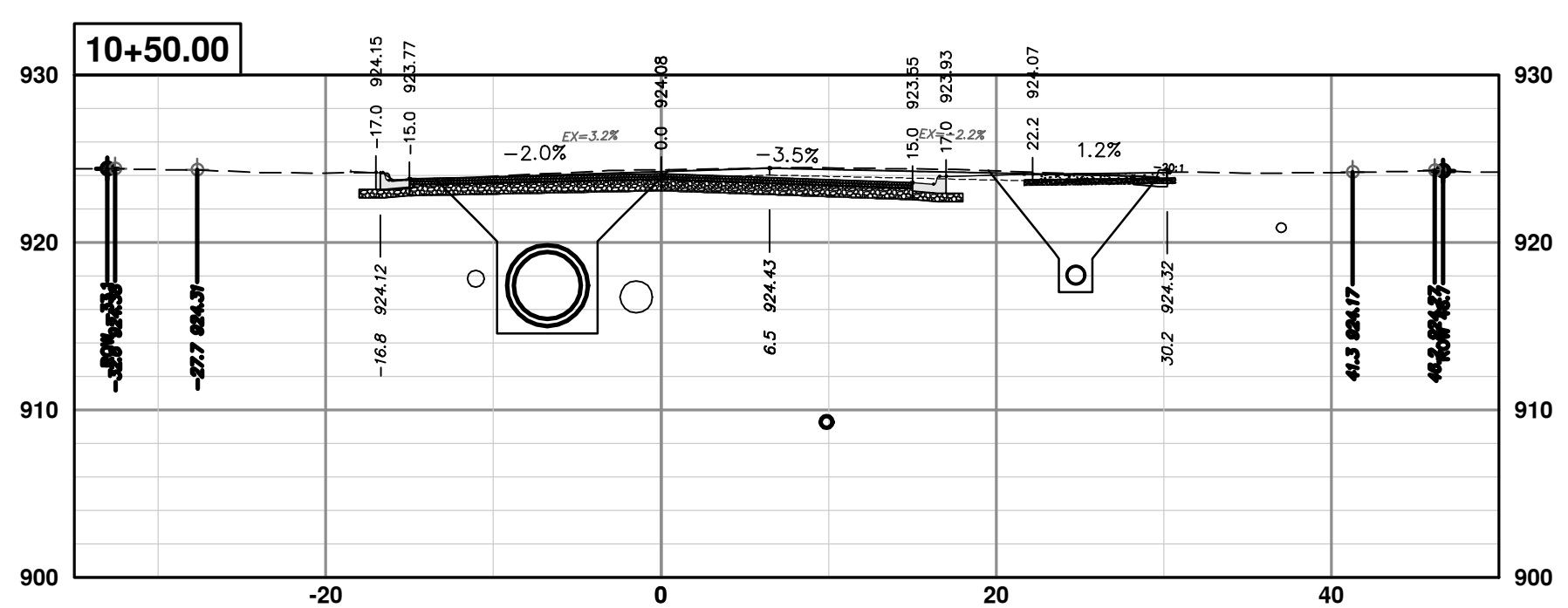
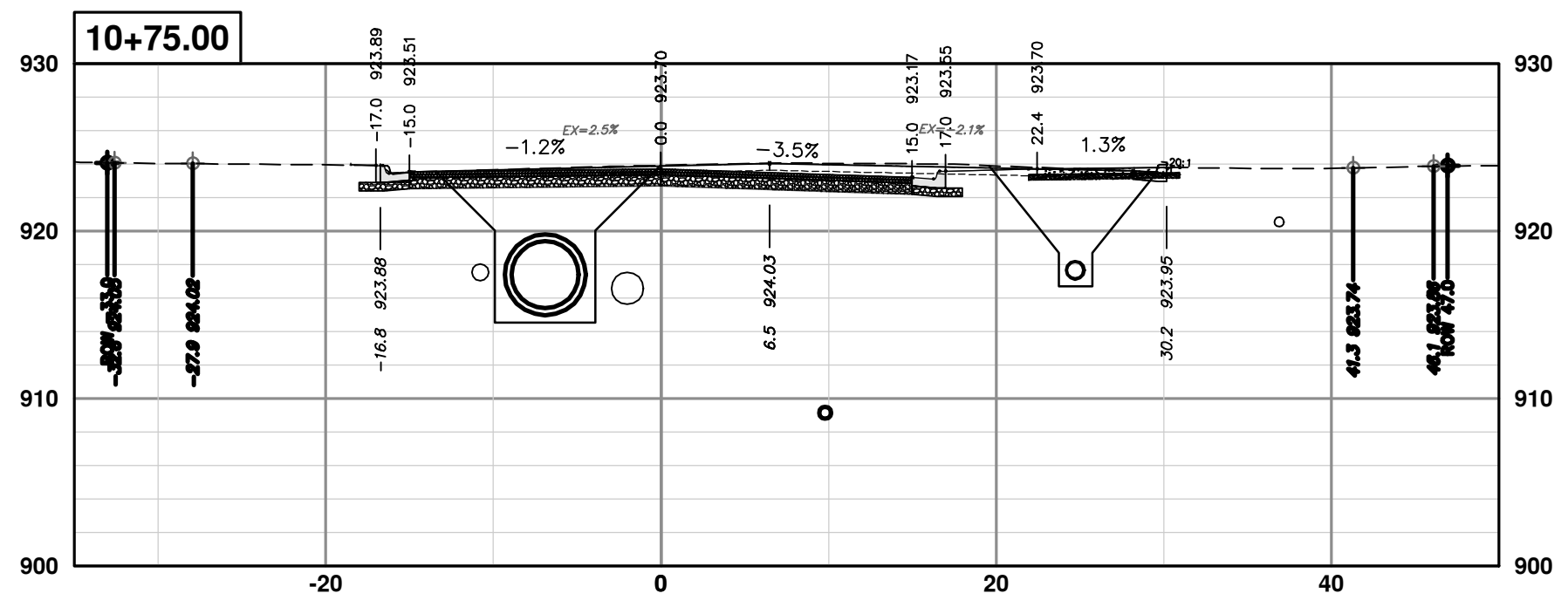
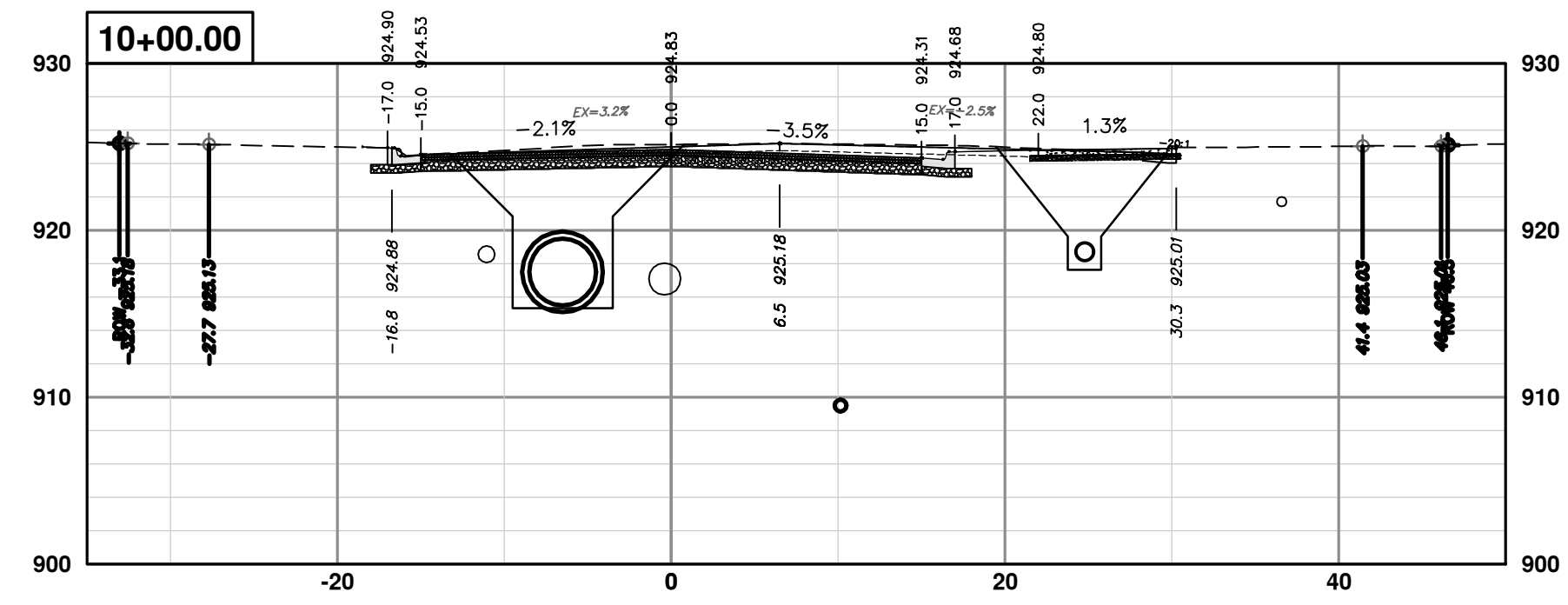
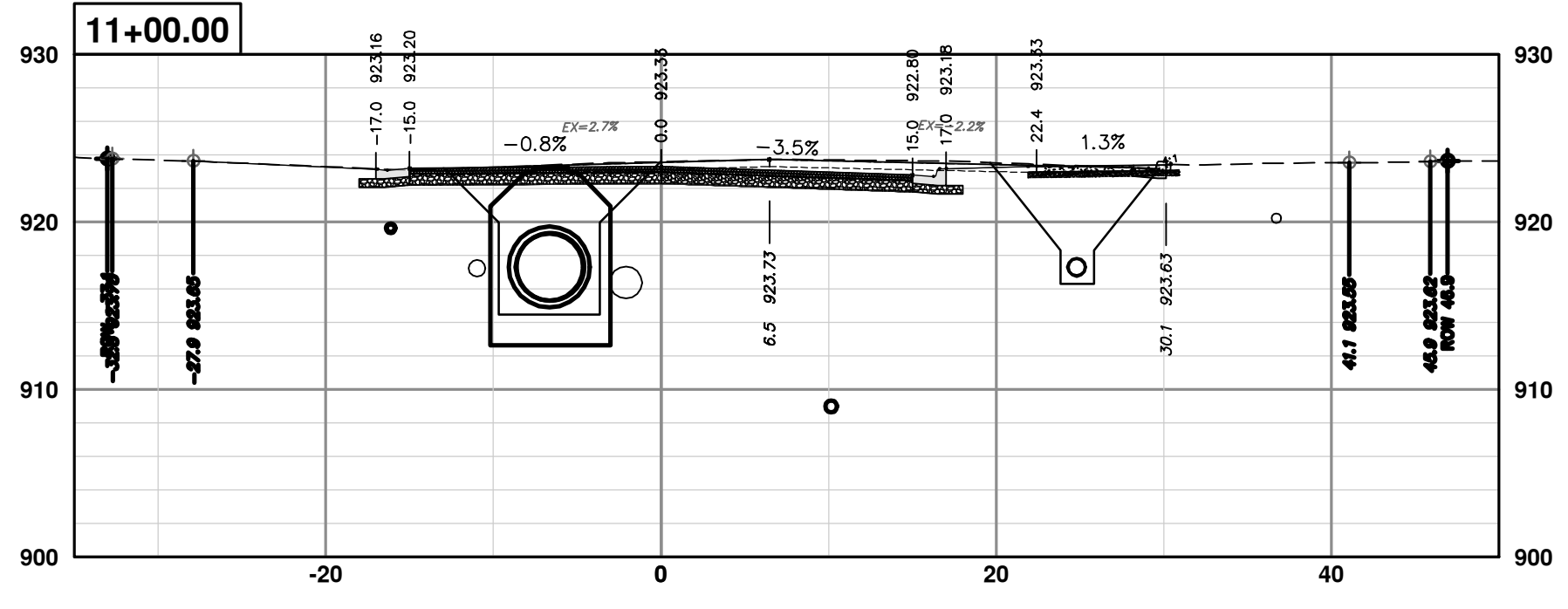
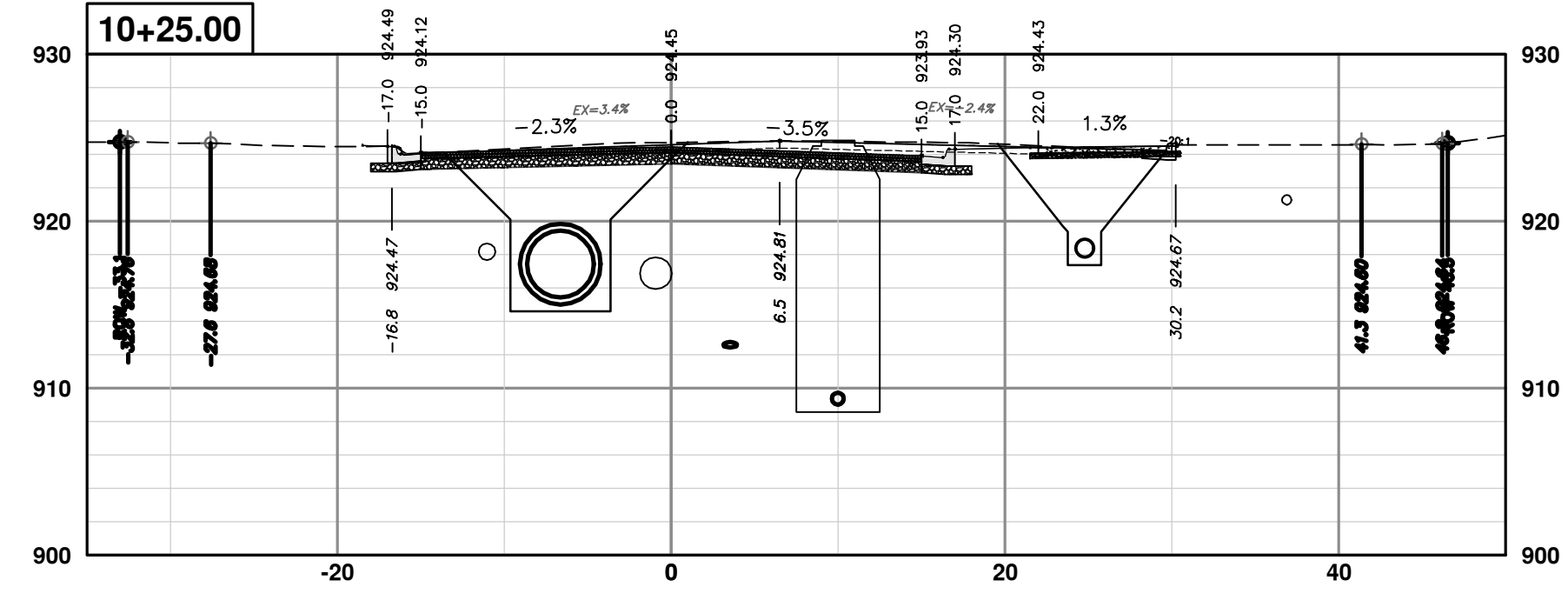


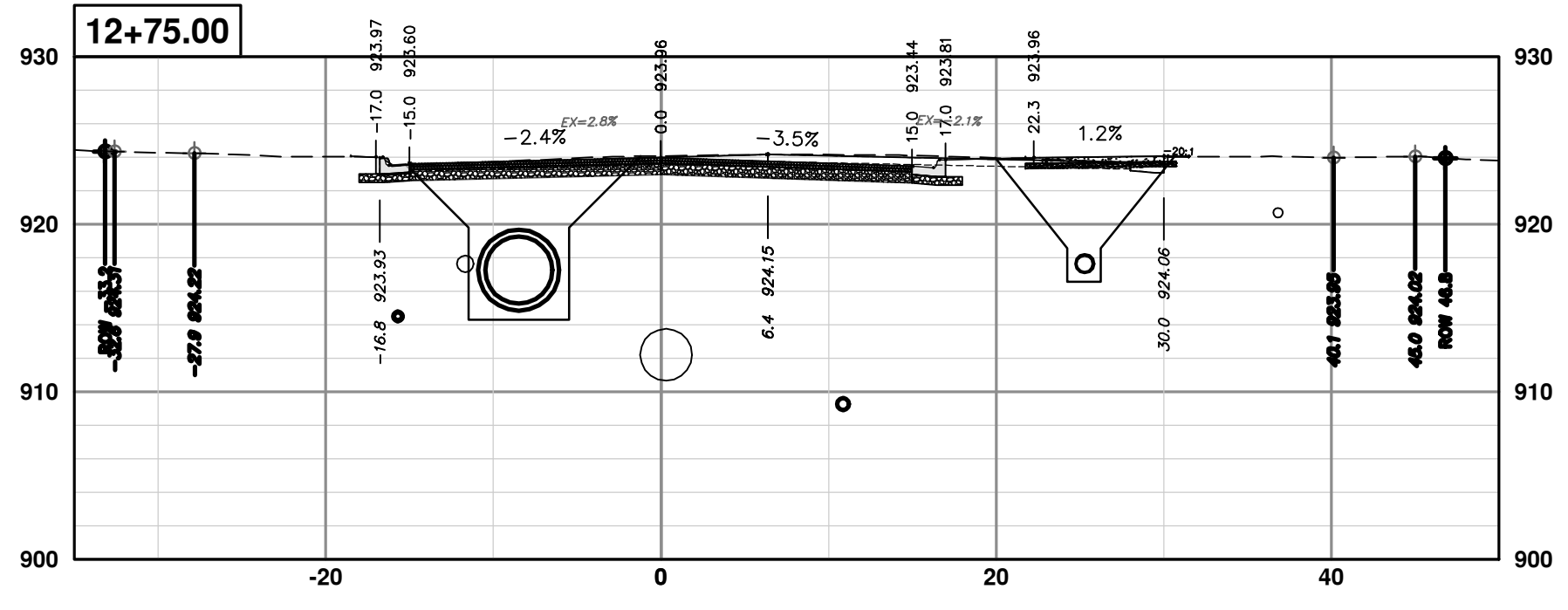
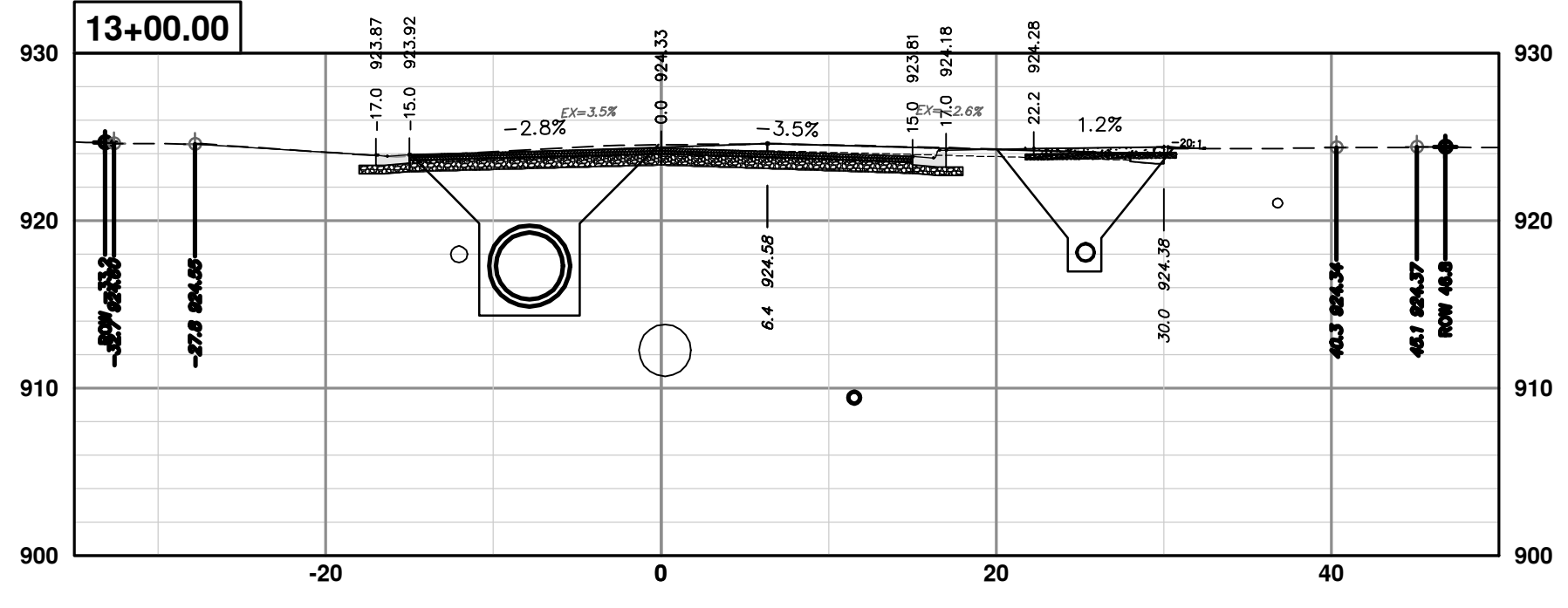
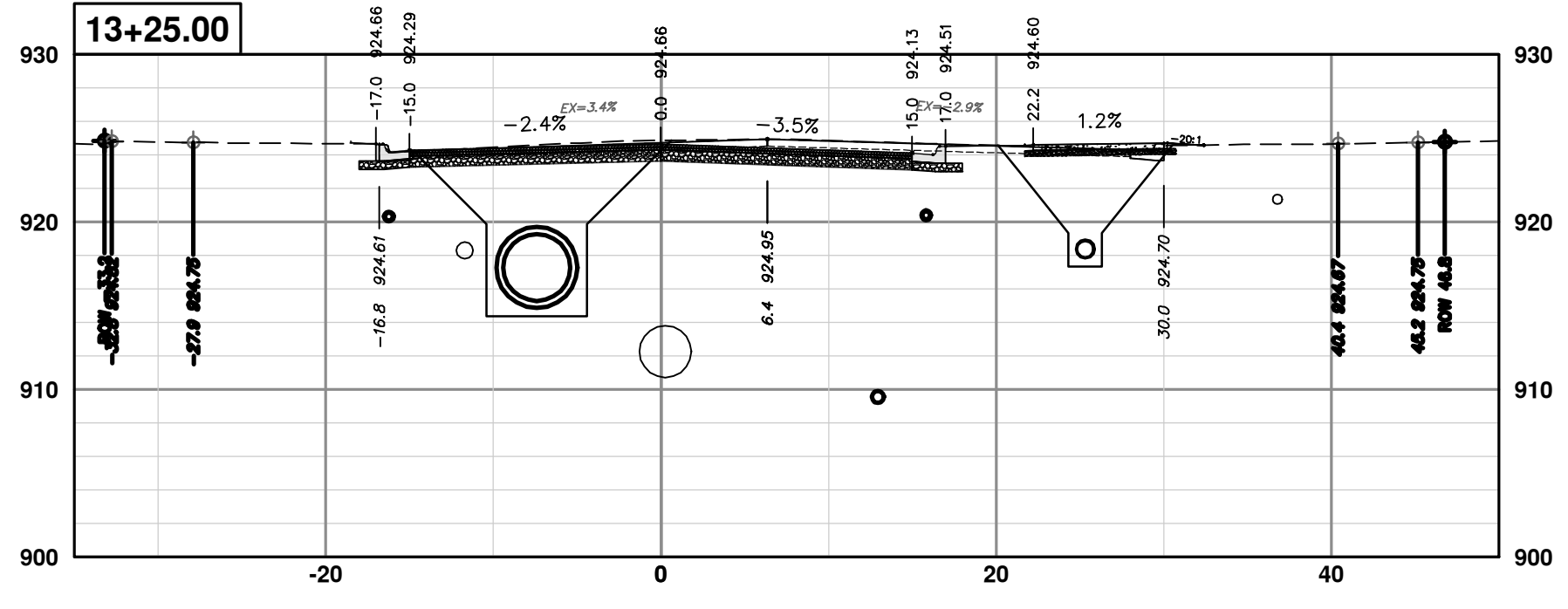
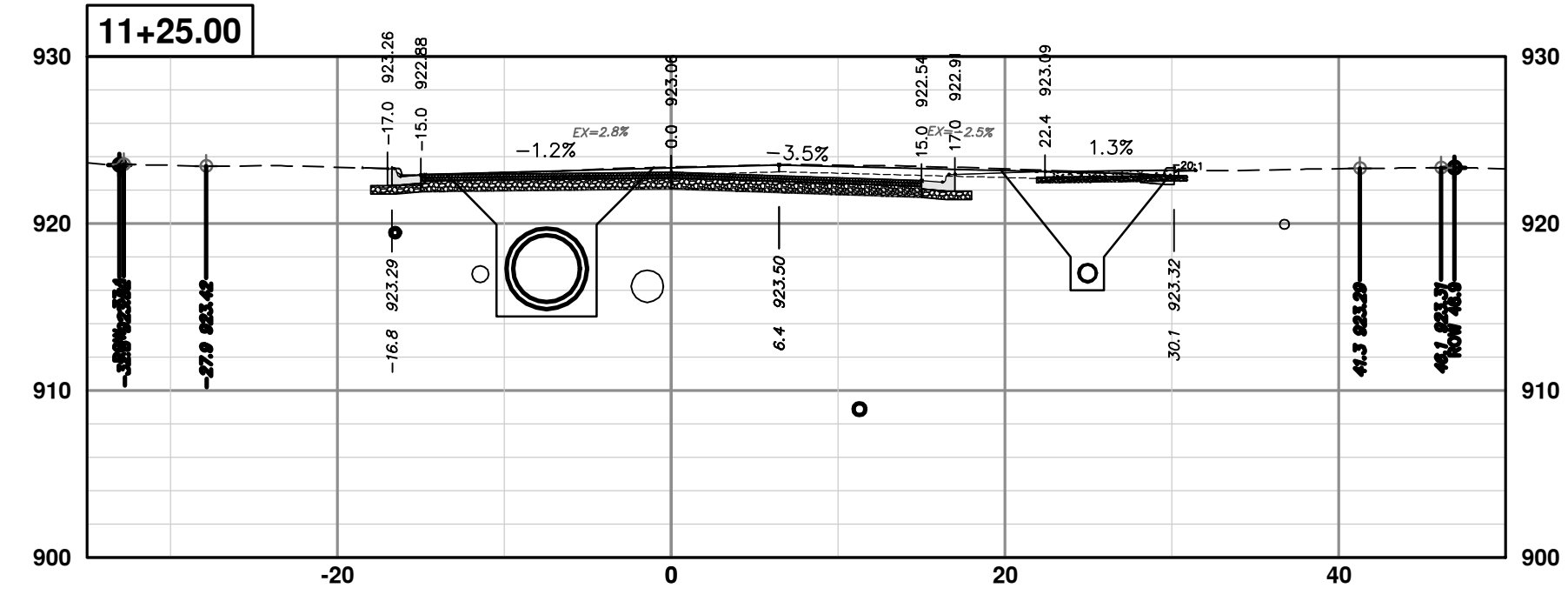
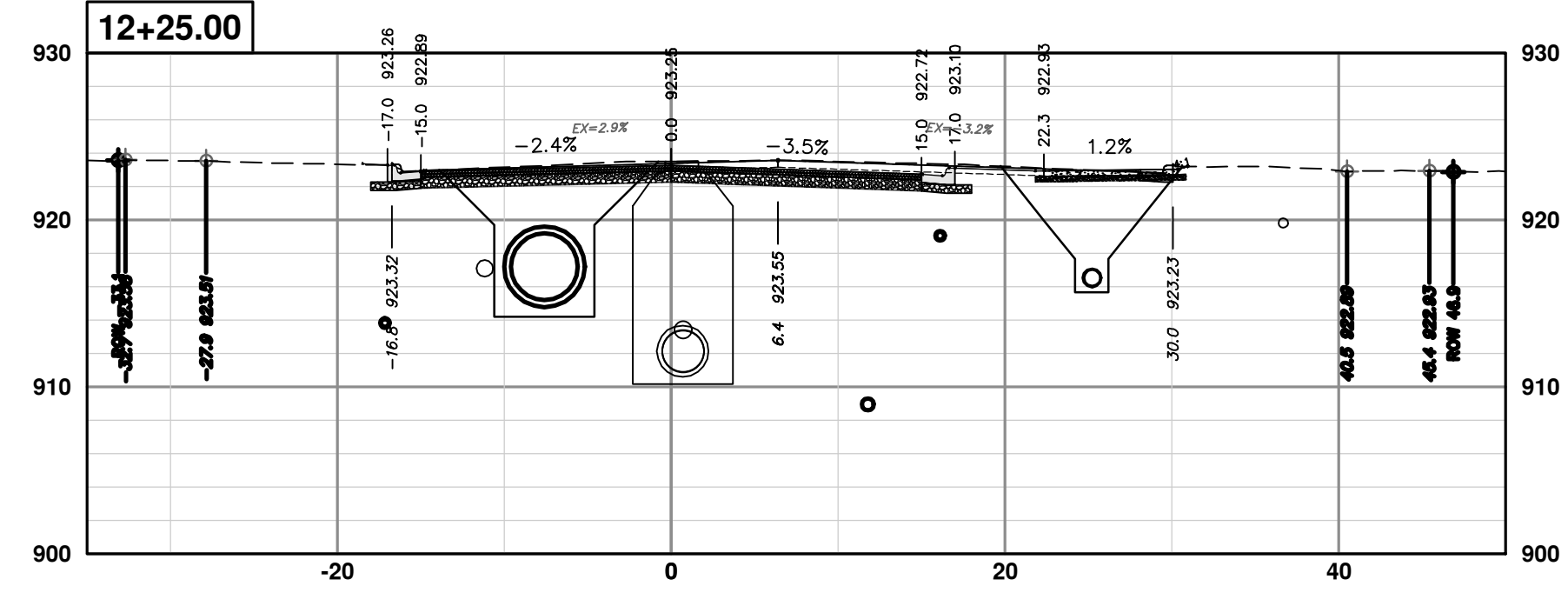
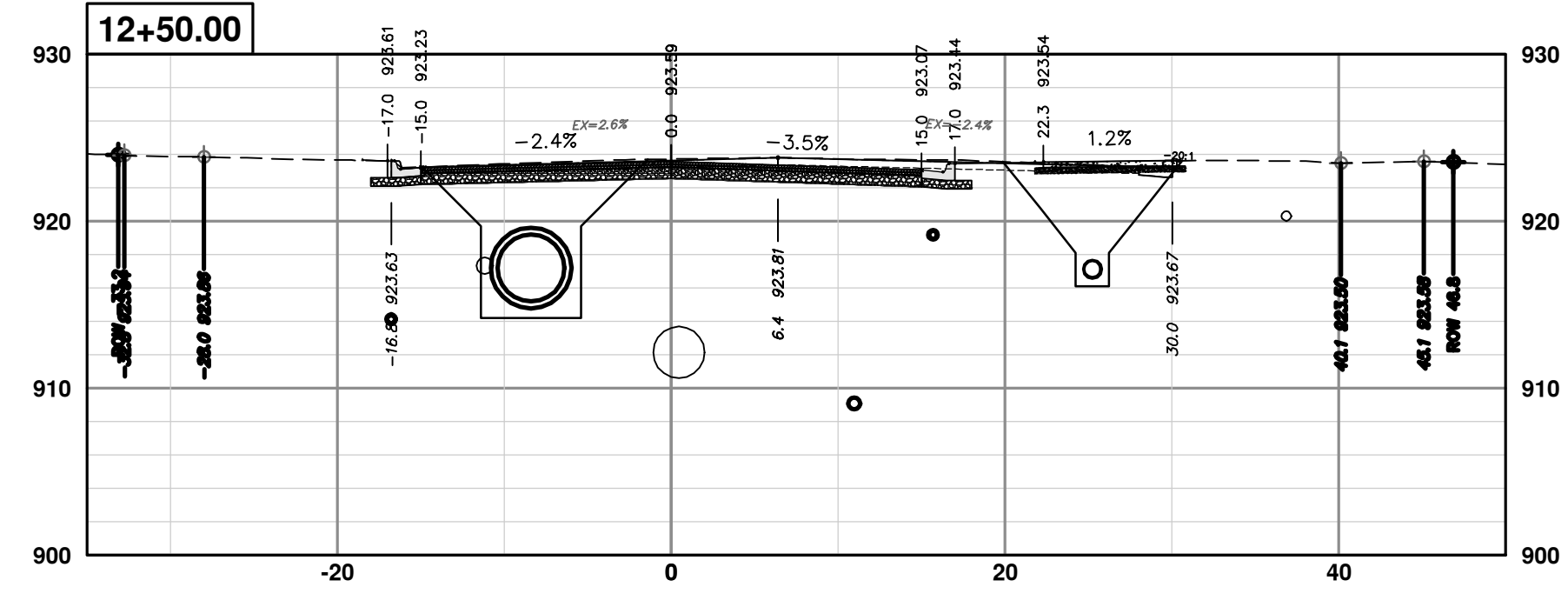


CITY OF ANN ARBOR  
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REV.	DATE	DESCRIPTION
01	2-14-24	ADDENDUM 1
00	1-30-24	BID SET

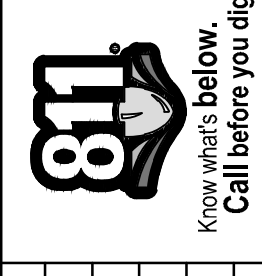


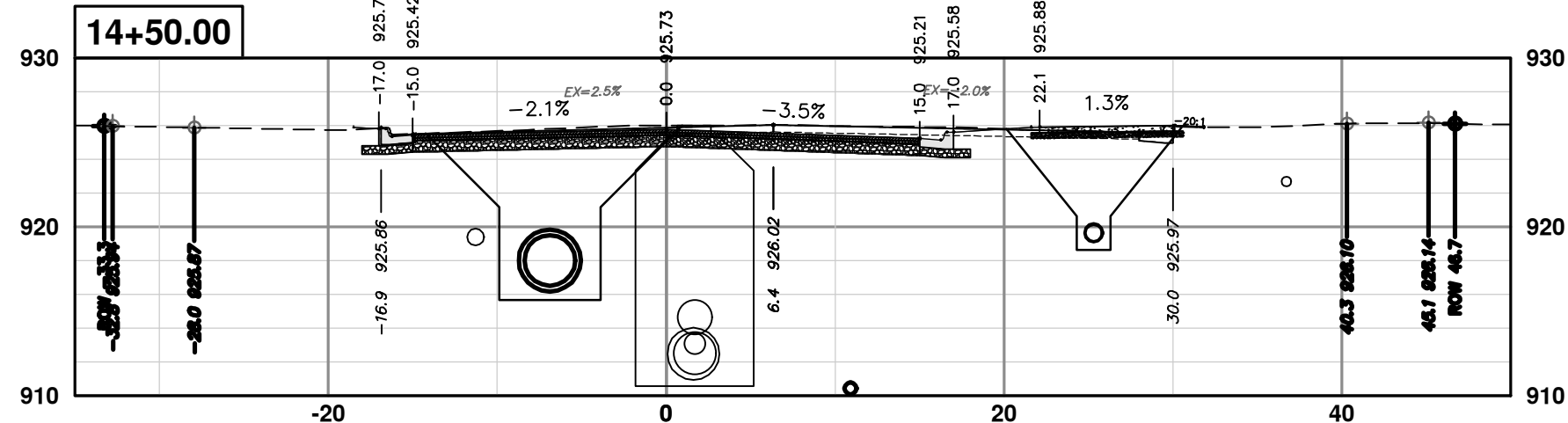
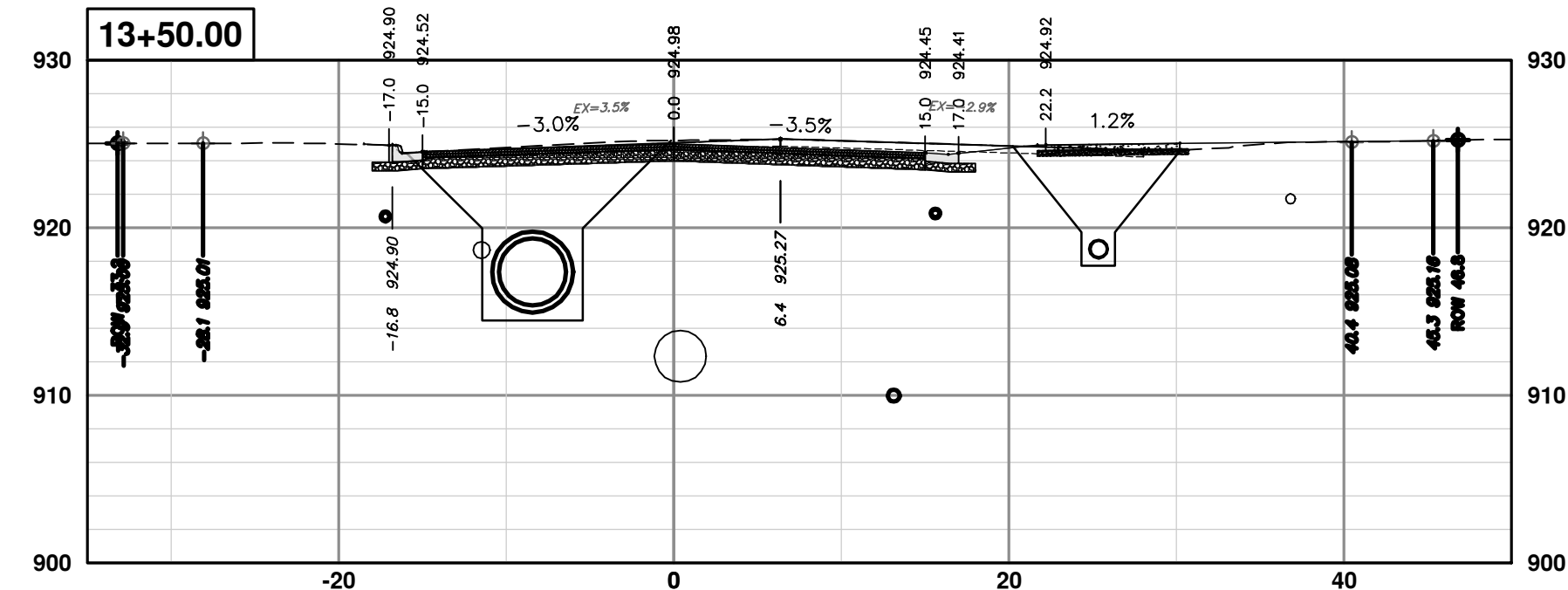
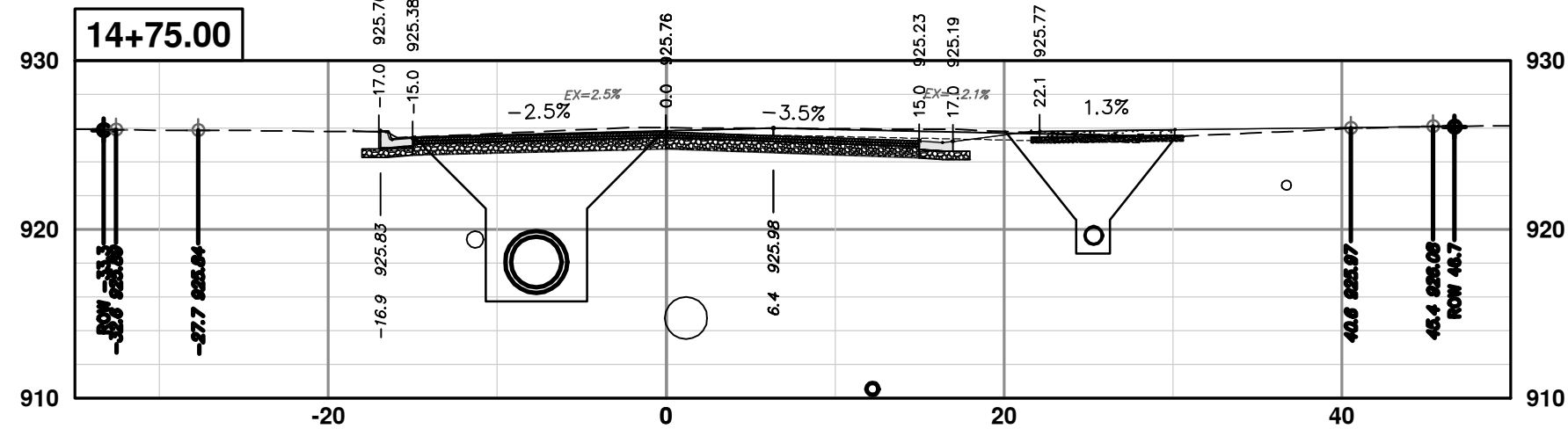
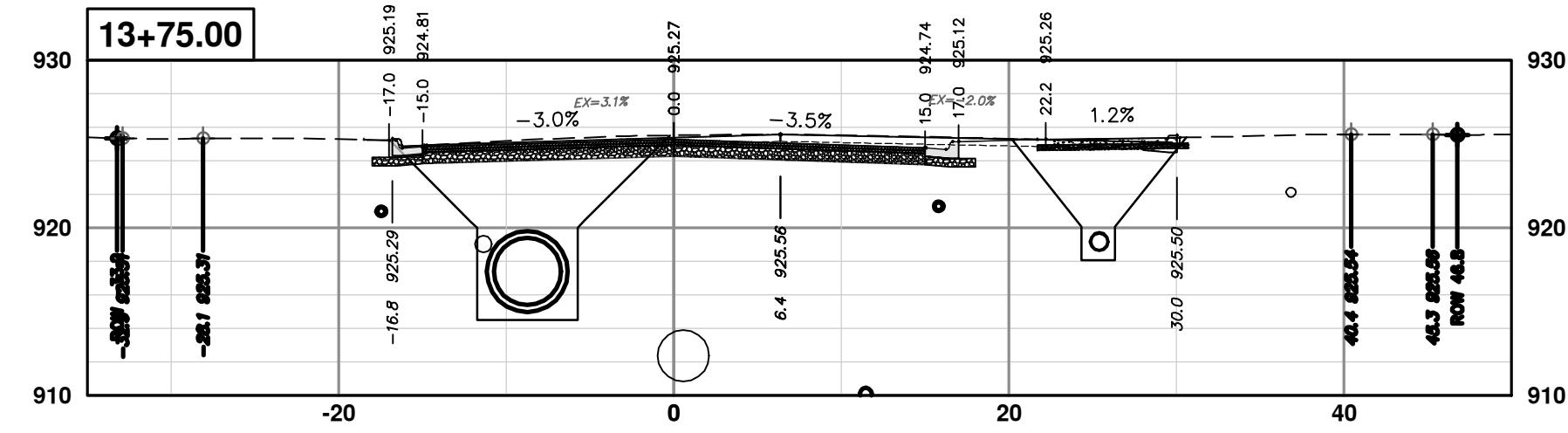
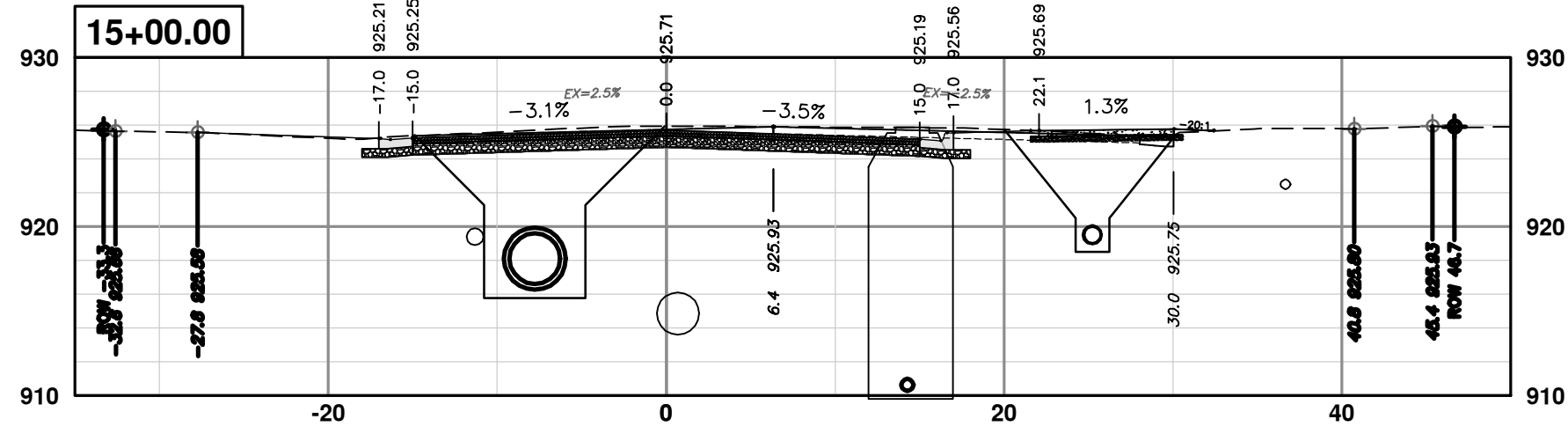
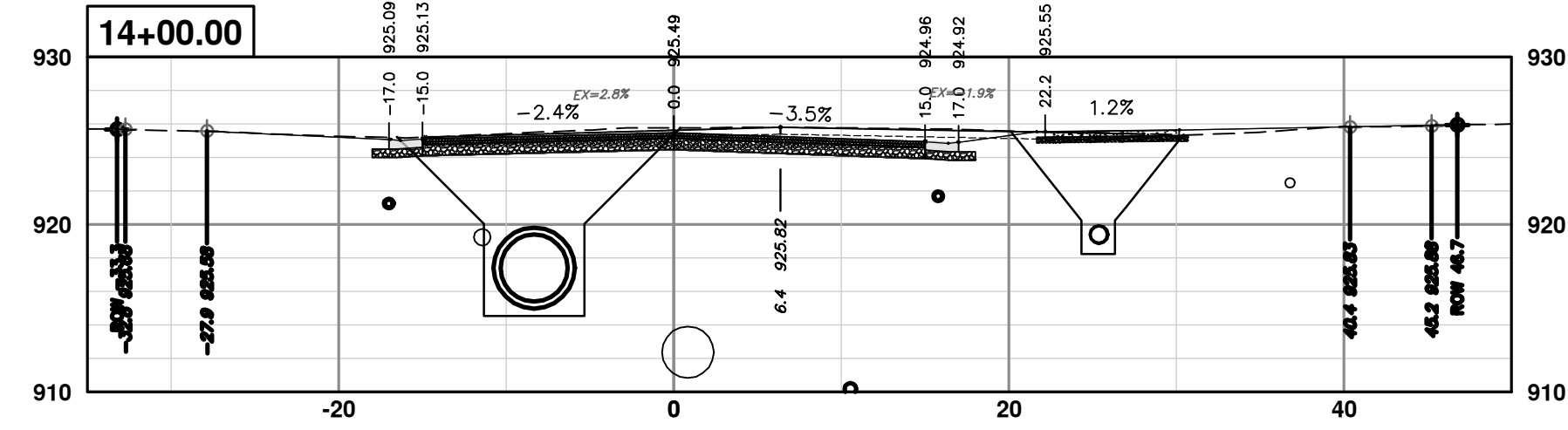
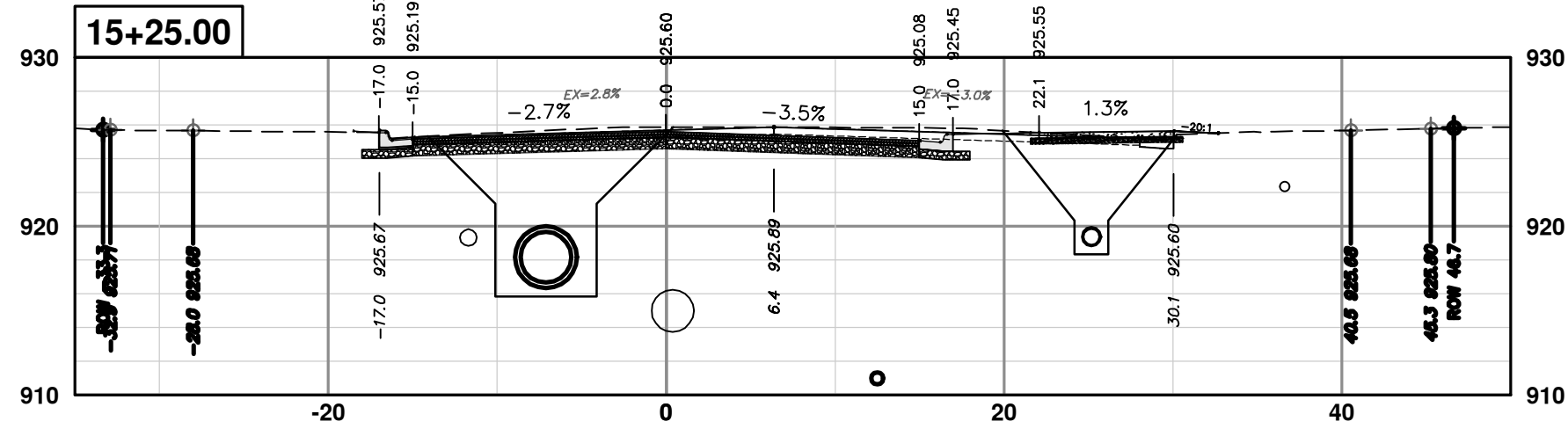
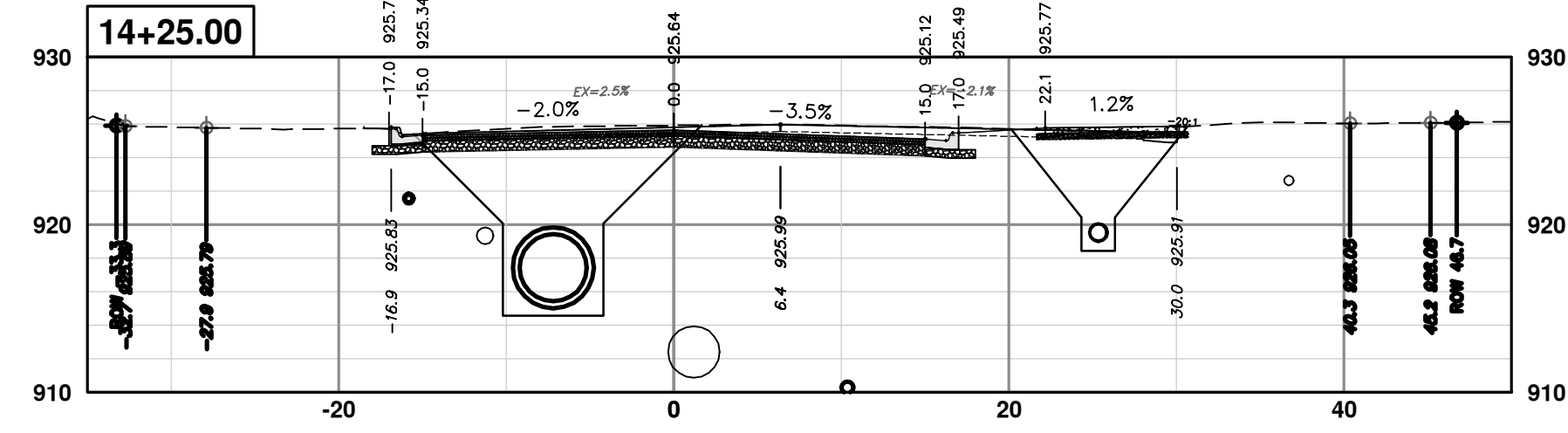




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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
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00	BID SET	1-30-24	A2D	TA





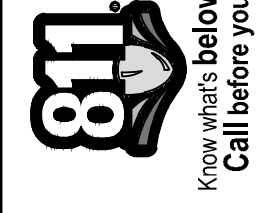
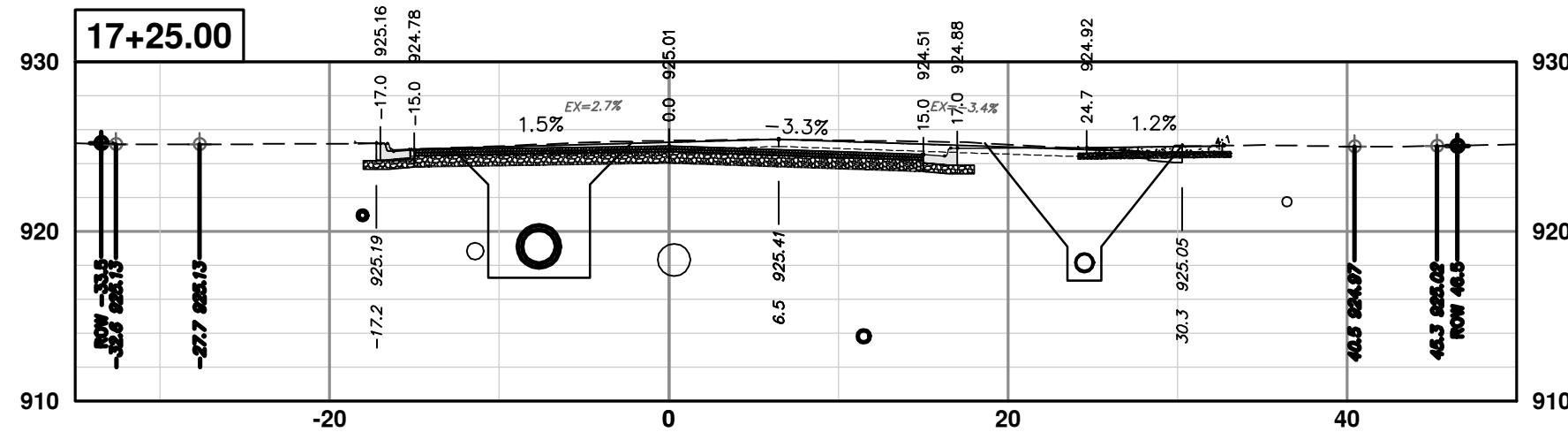
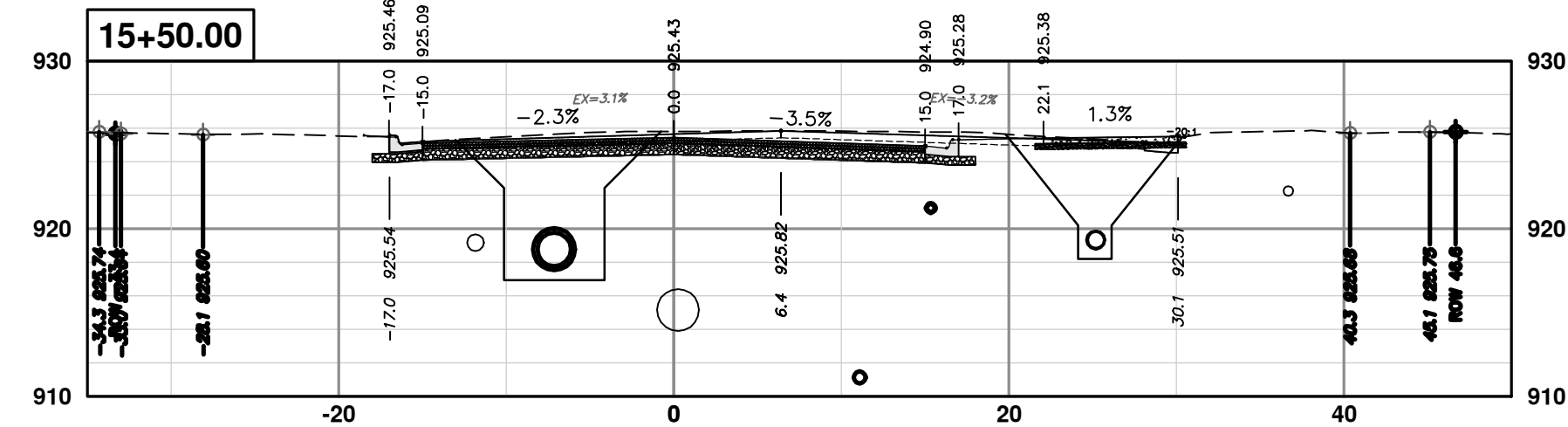
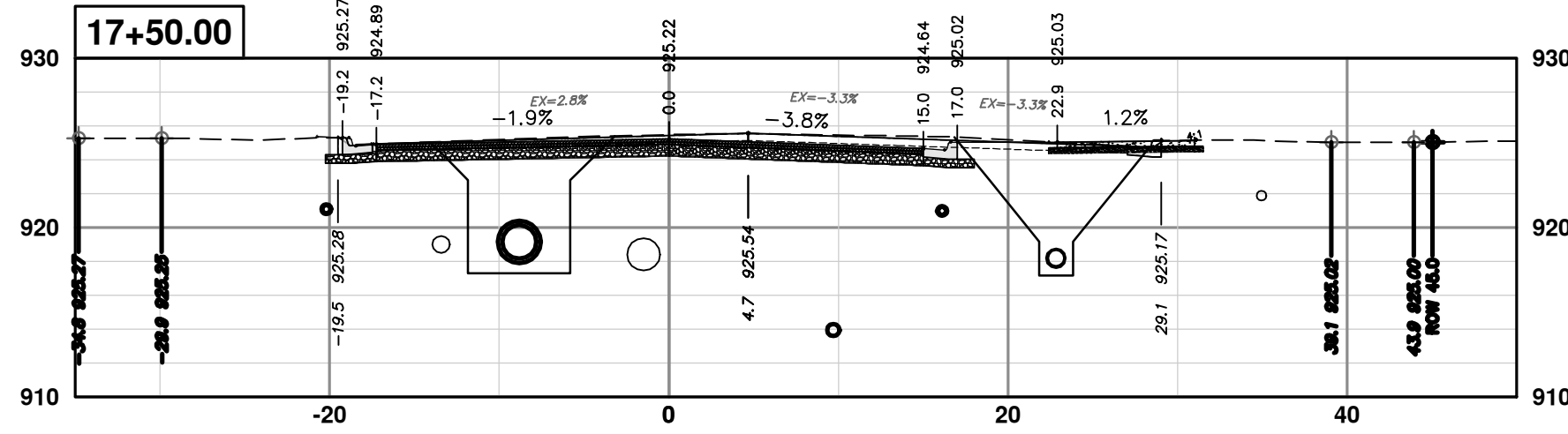
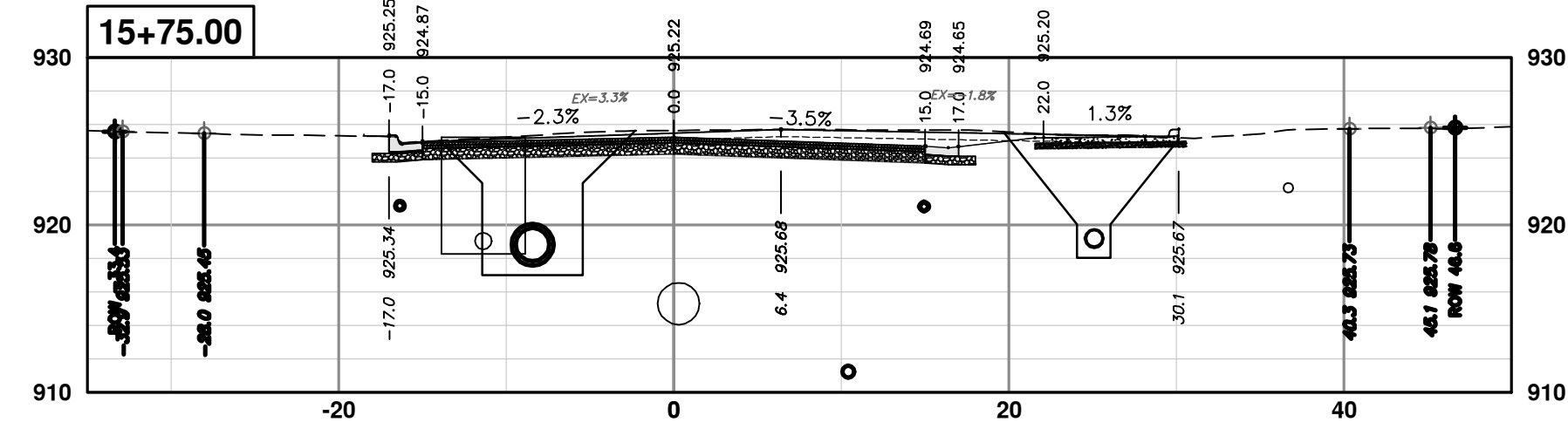
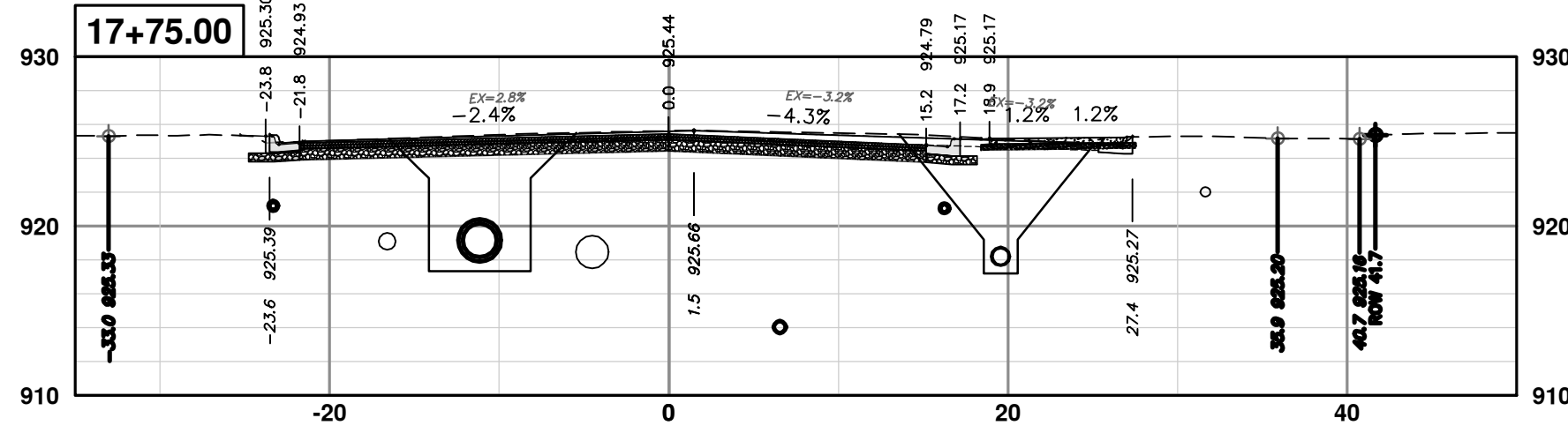
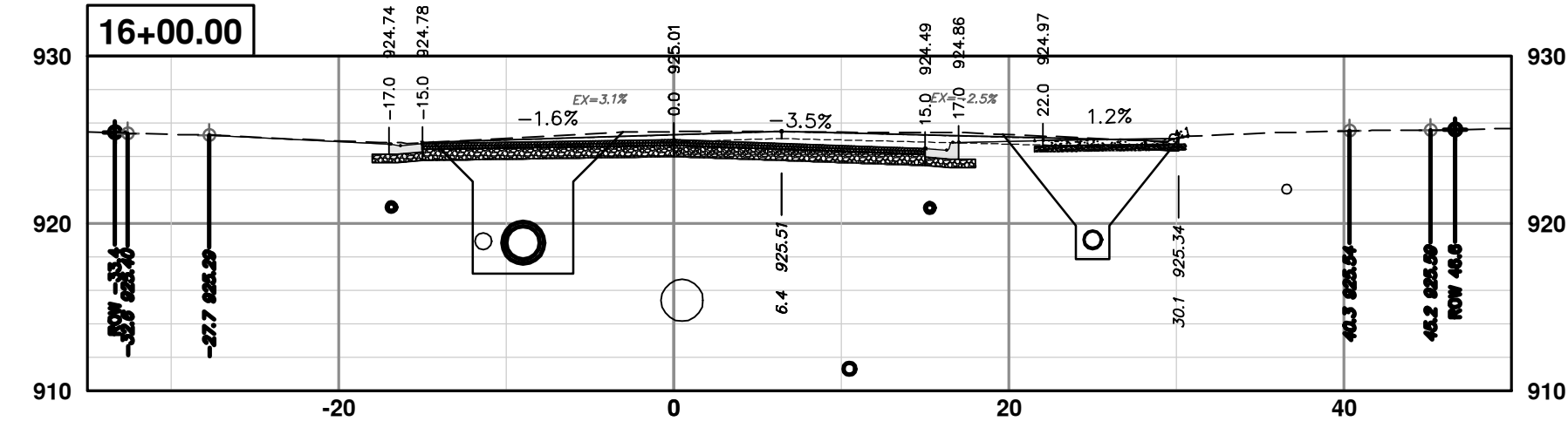
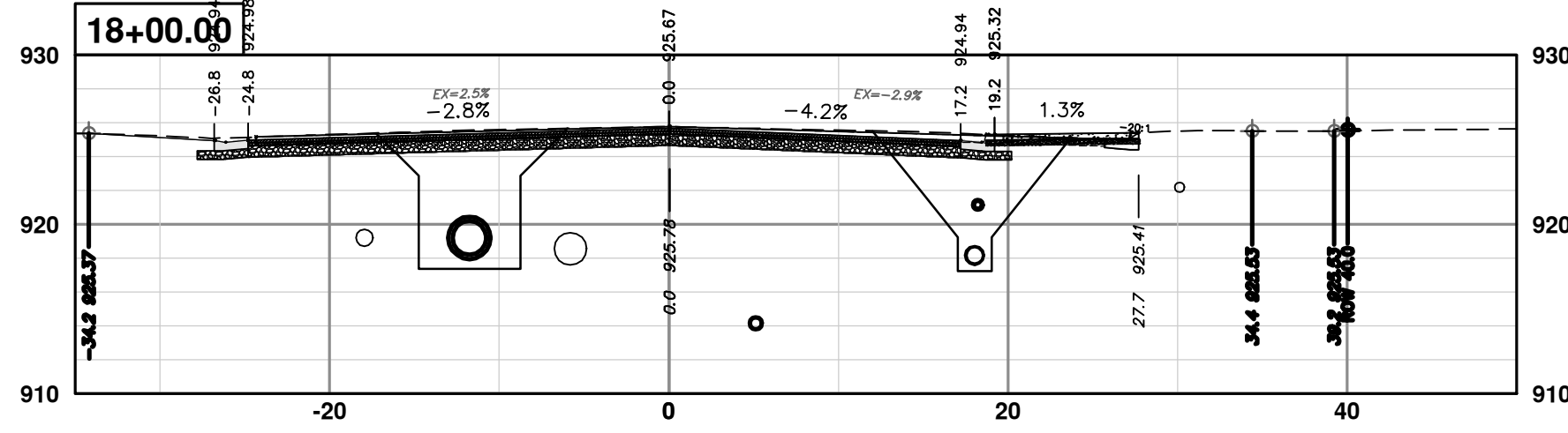
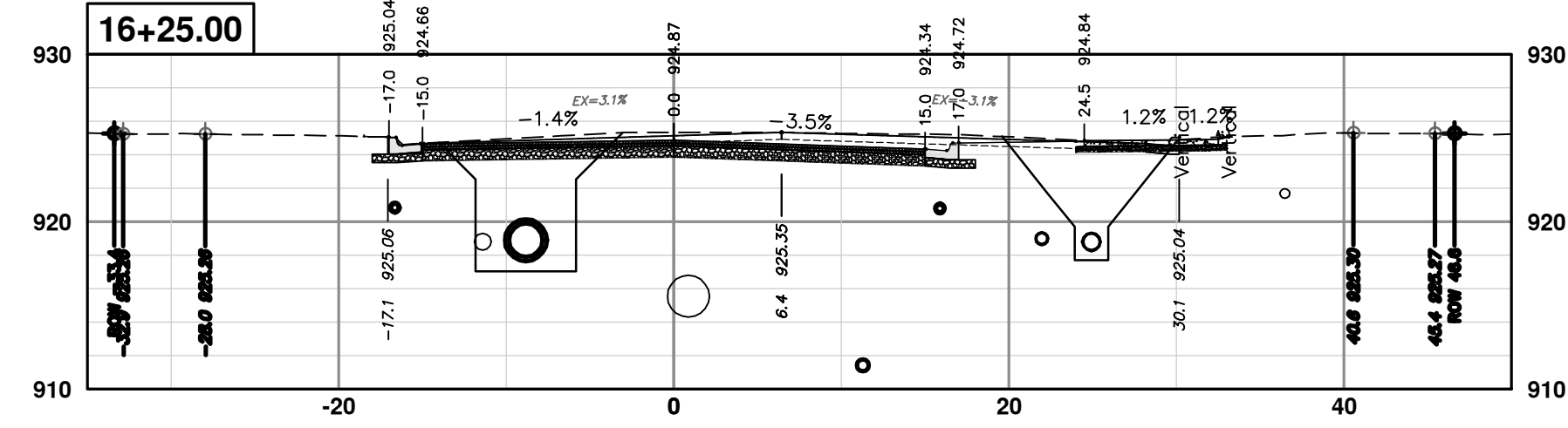
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CROSS-SECTIONS - S. SEVENTH STREET  
STA. 13+50 - STA. 15+25

SHEET No. 77 OF 92  
SCALE PLAN: 1" = 10'  
PROFILE: 1" = 10'  
DRAWING No. 2020031-77

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00	1-30-24	BID SET
		DRAWN
		CHECKED



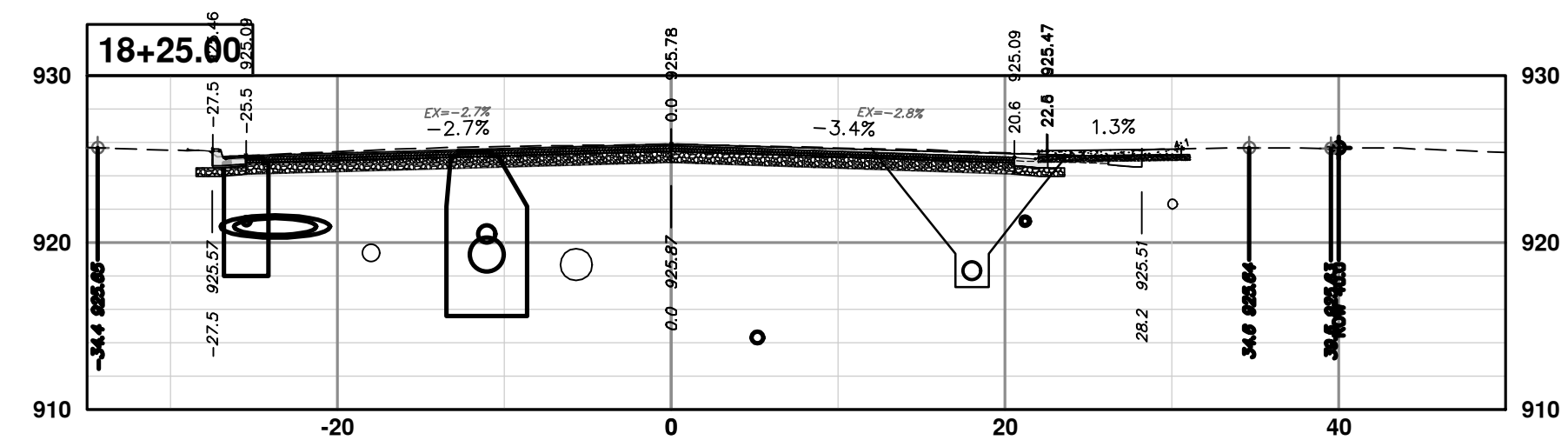
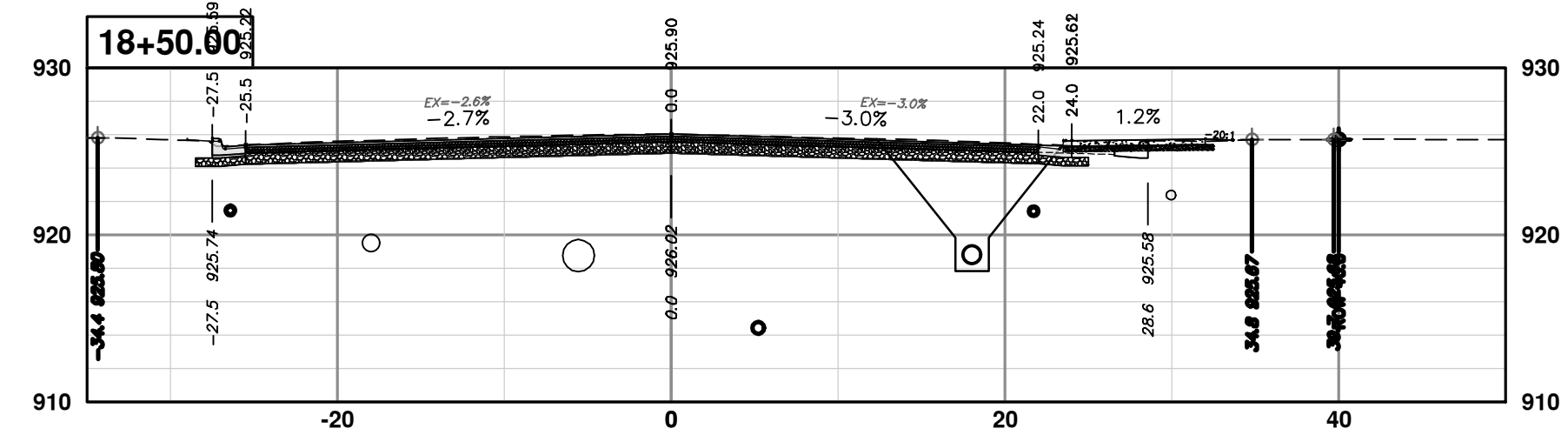
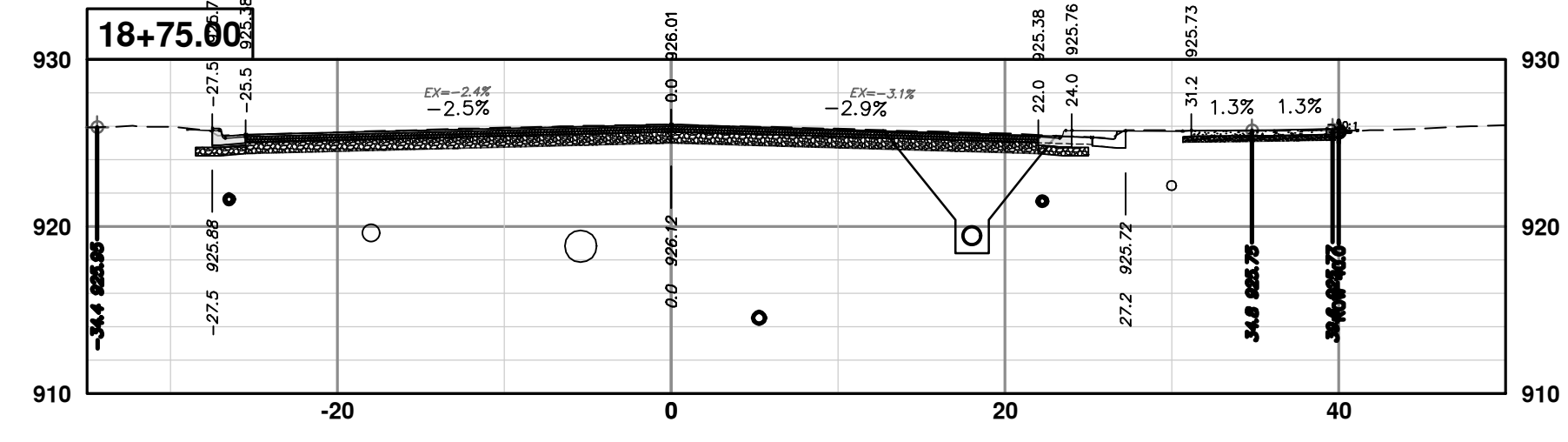
REV.	DATE	DESCRIPTION
01	2-14-24	ADDENDUM 1
00	1-30-24	BID SET
		DRAWN
		CHECKED

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CROSS-SECTIONS - S. SEVENTH STREET  
STA. 15+50 - STA. 18+00

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SCALE PLAN: 1" = 10'  
PROFILE: 1" = 10'  
DRAWING No. 2020031-78  
SHEET No. 78 OF 92



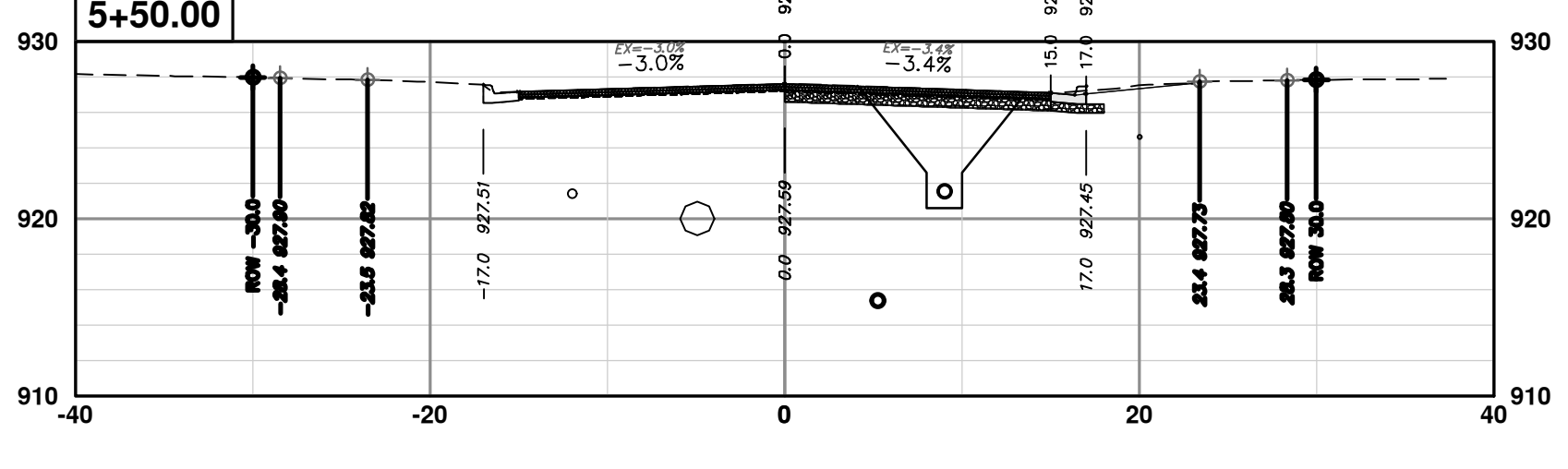
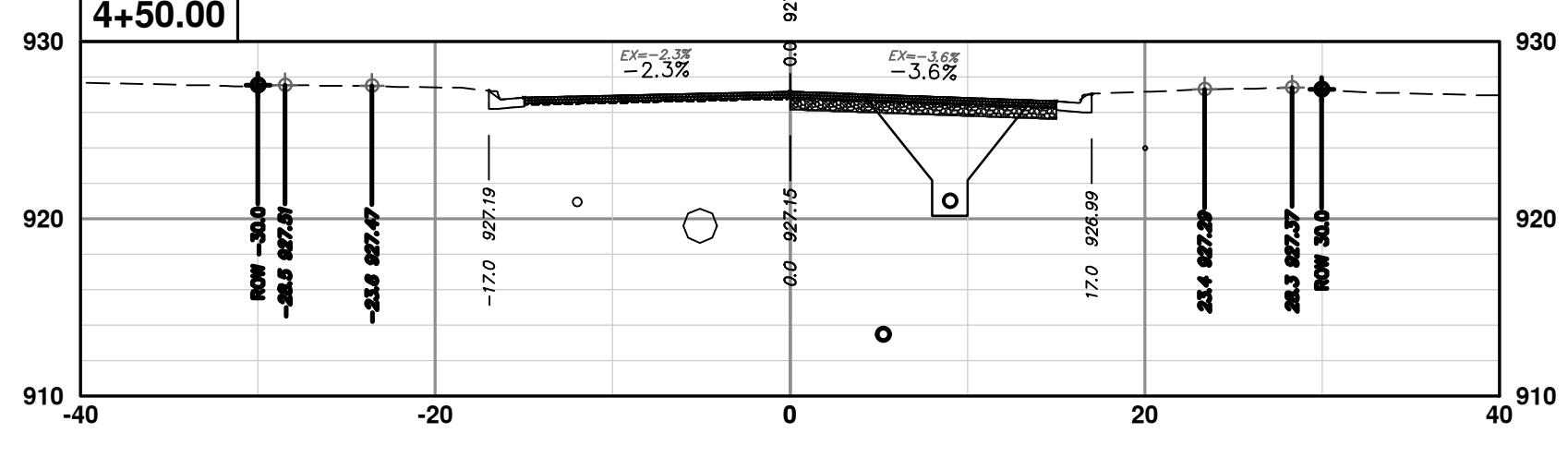
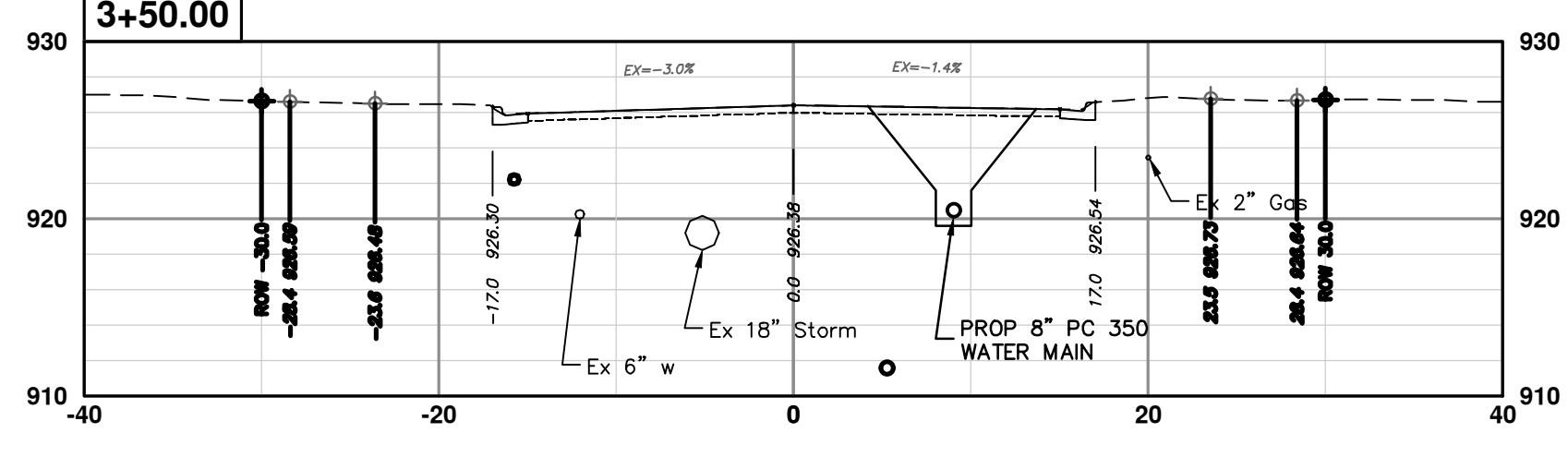
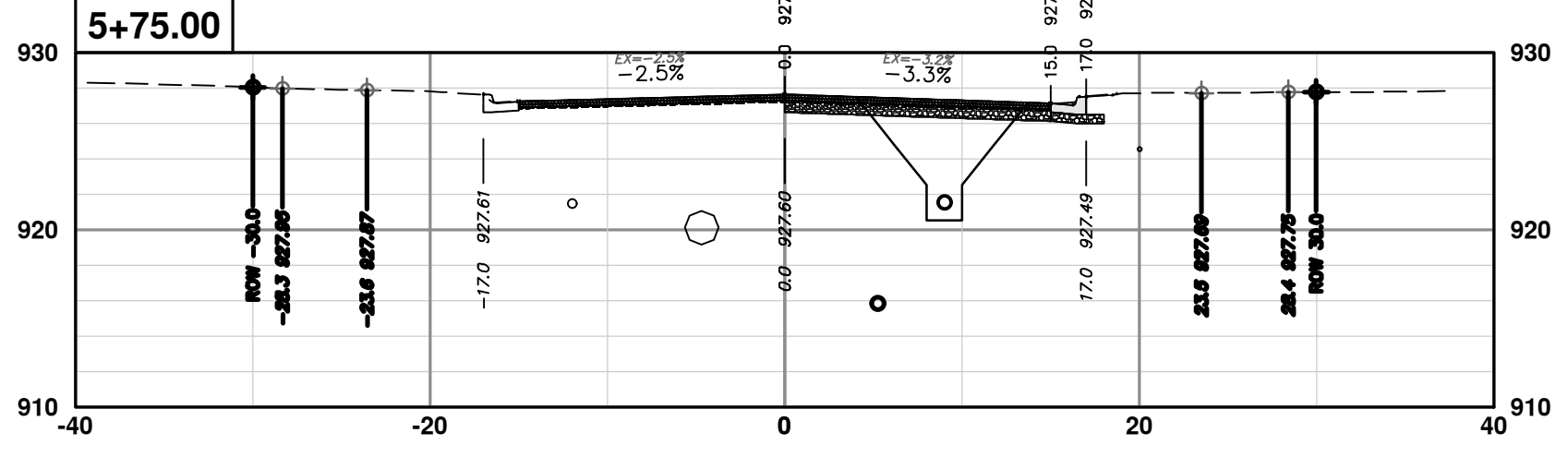
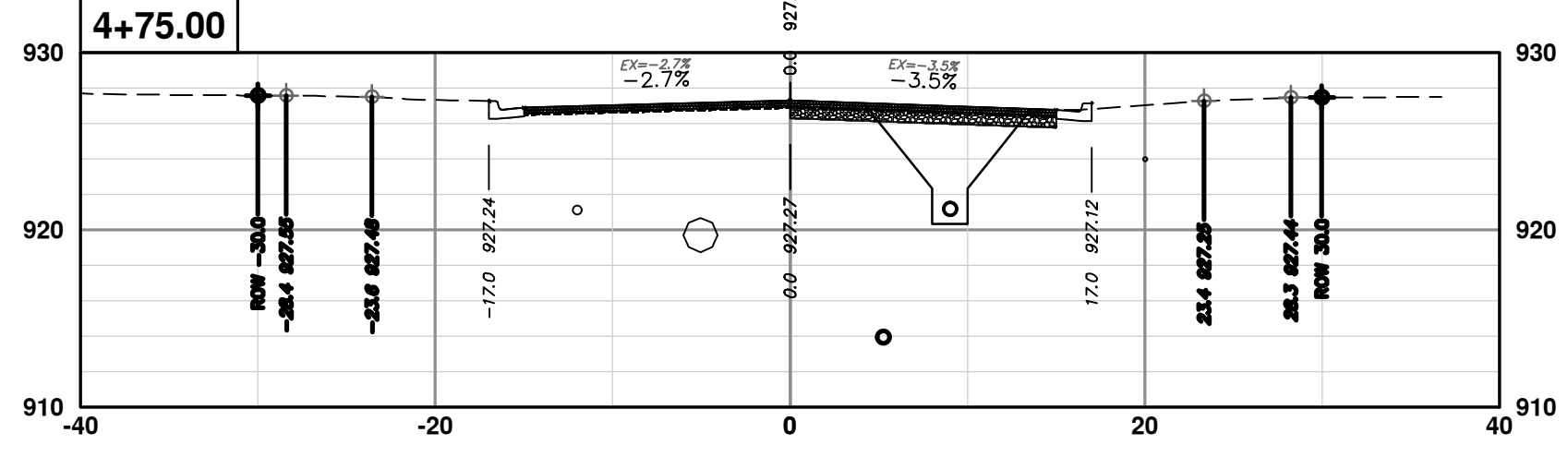
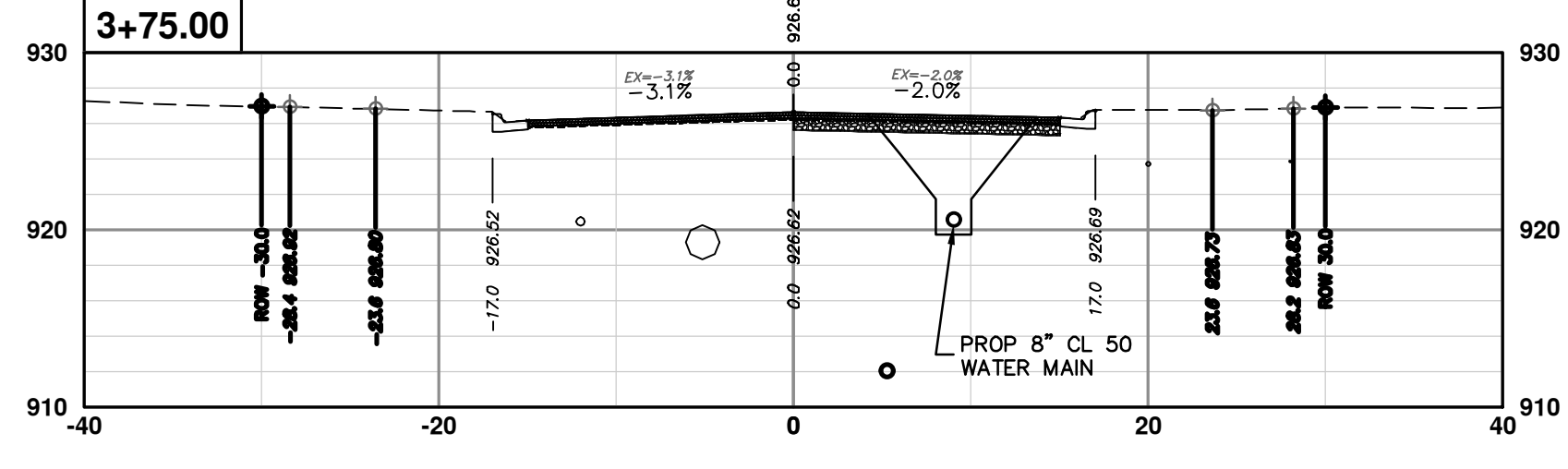
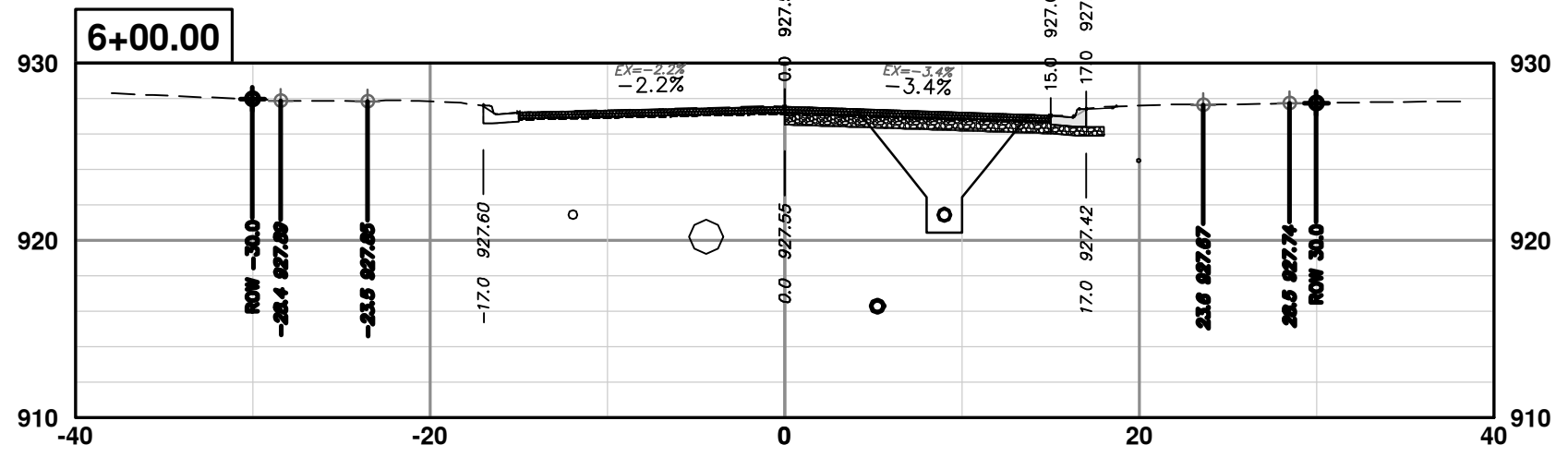
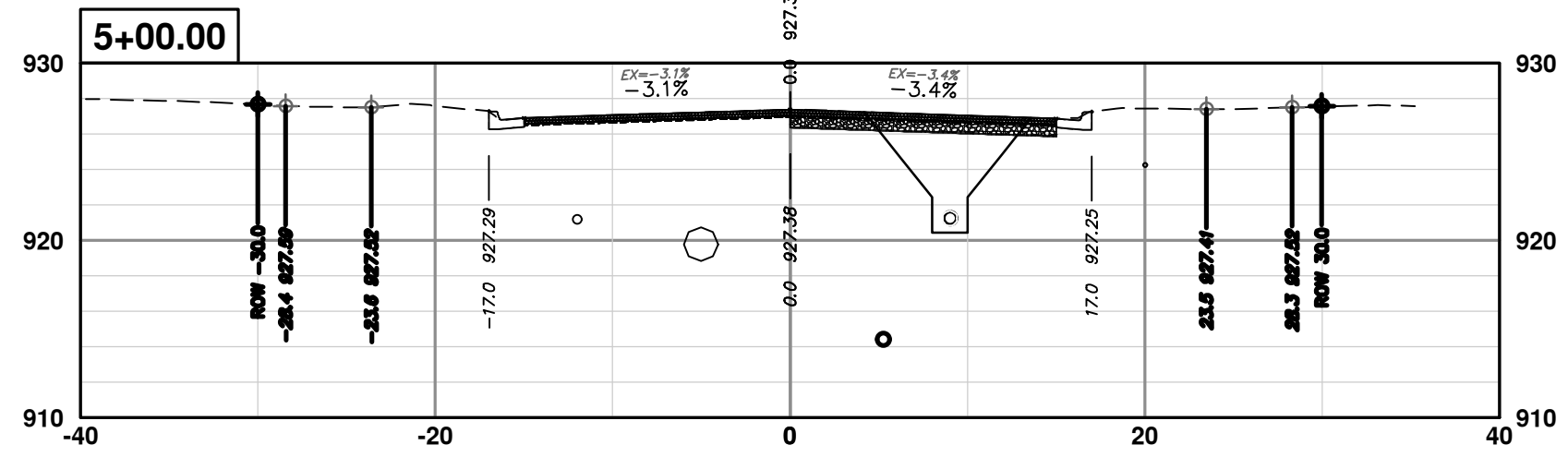
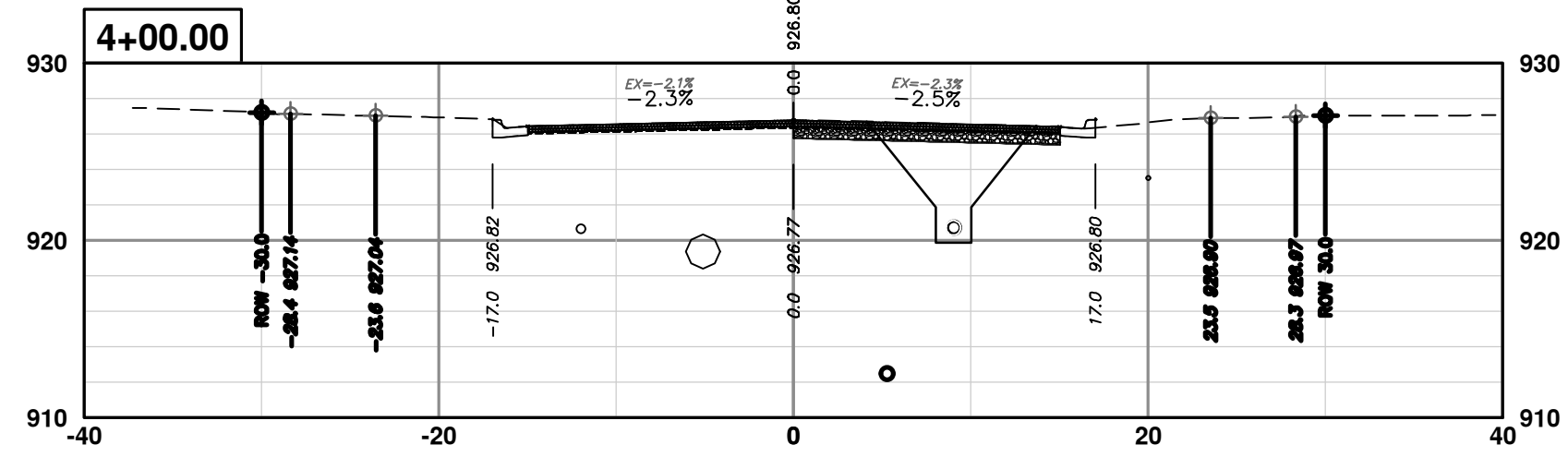
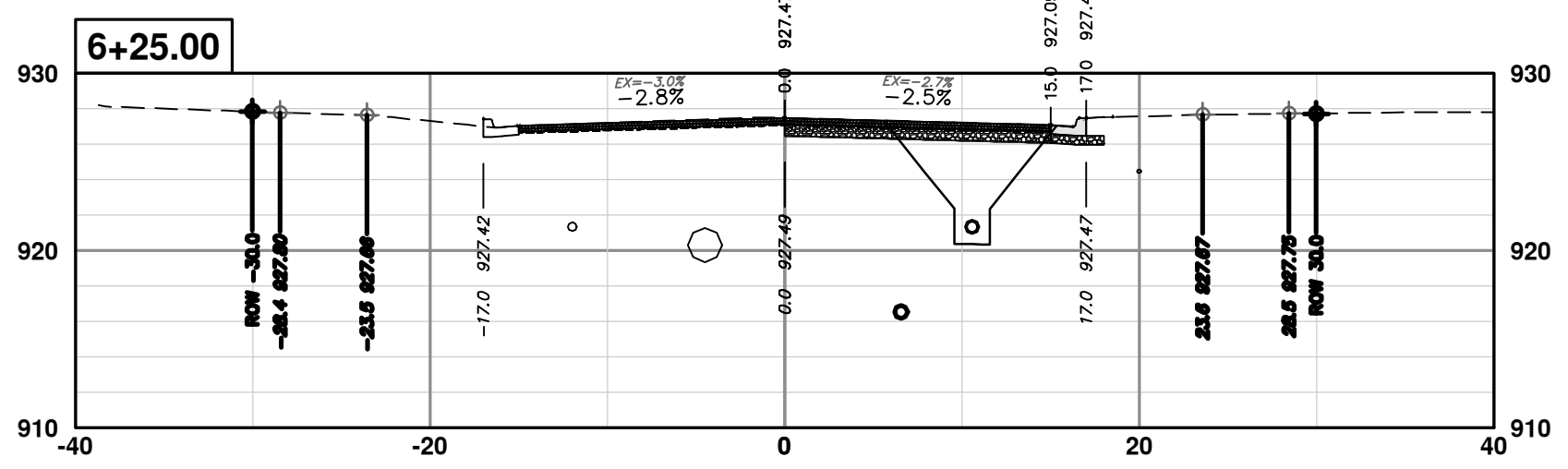
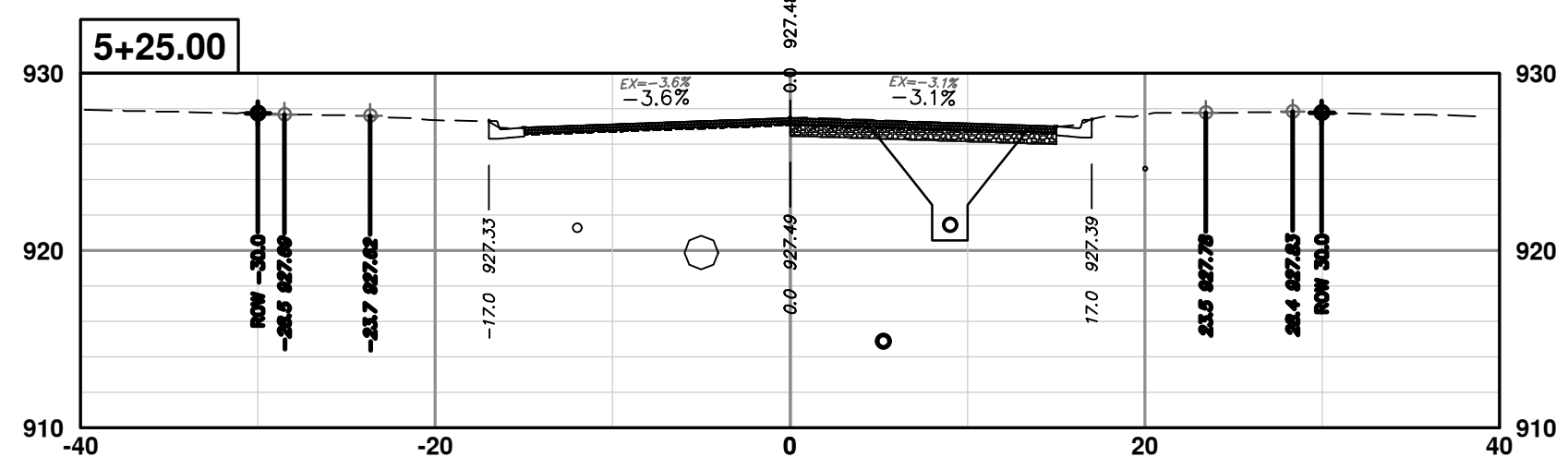
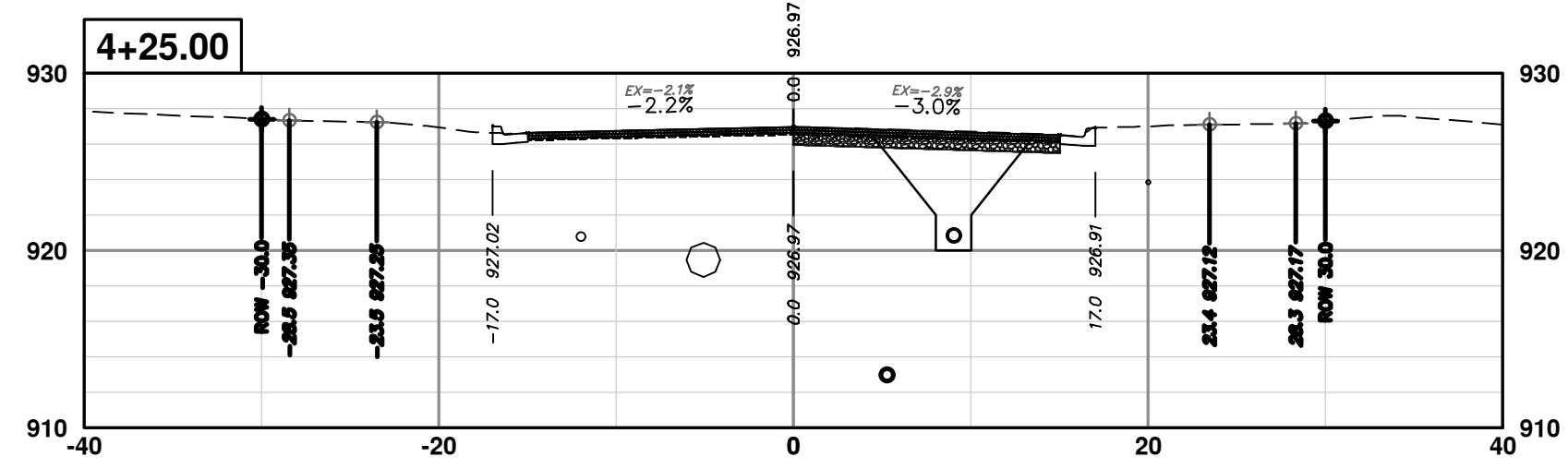


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REV.	DATE	DESCRIPTION
01	2-14-24	ADDENDUM 1
00	1-30-24	BID SET



R:\2020031 S 7th Street\Plan Production\2020031XSc11.dwg Dwg Created: 30-Jan-24 - \_a2 standard bw.stb - Plot Date: 14-Feb-24



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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	ADDENDUM 1	2-14-24	A2D	TA
00	BID SET	1-30-24	A2D	TA

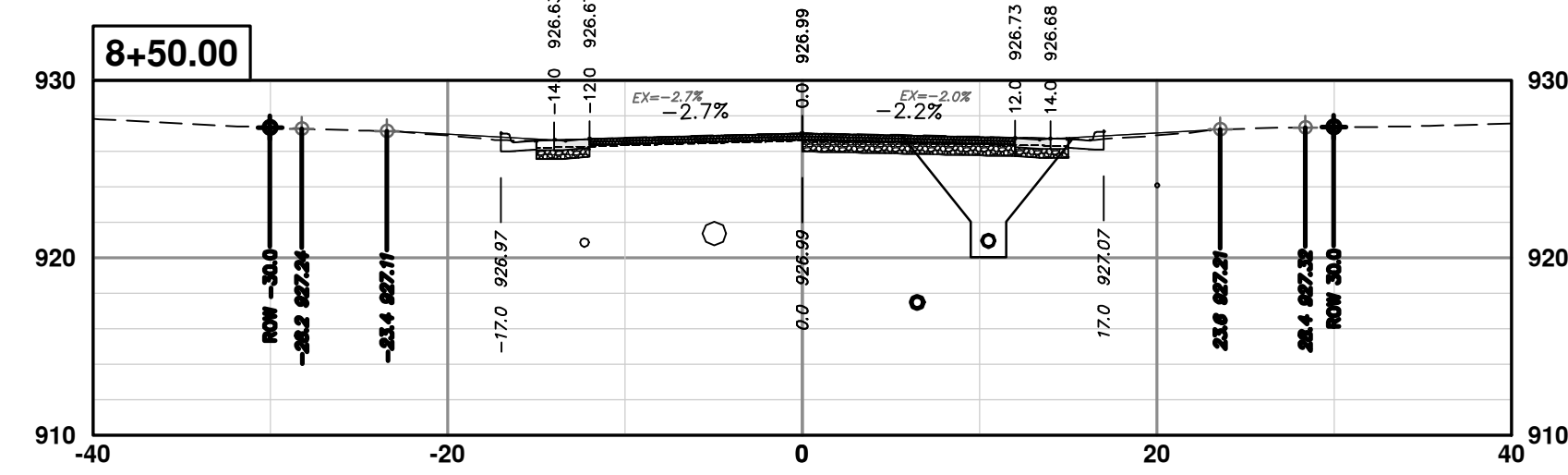
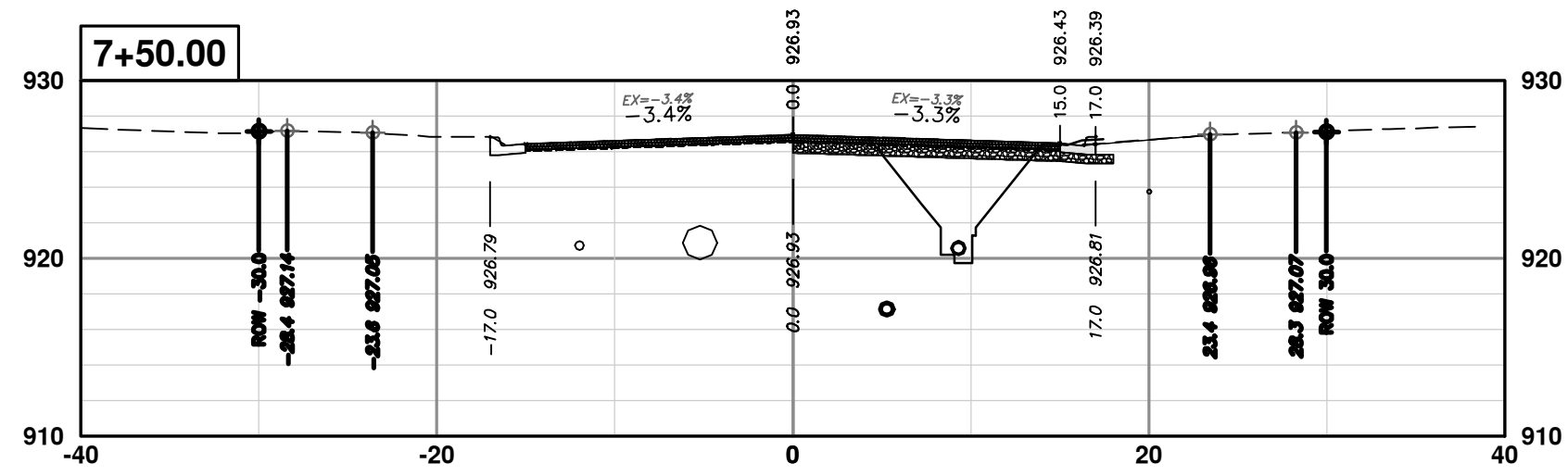
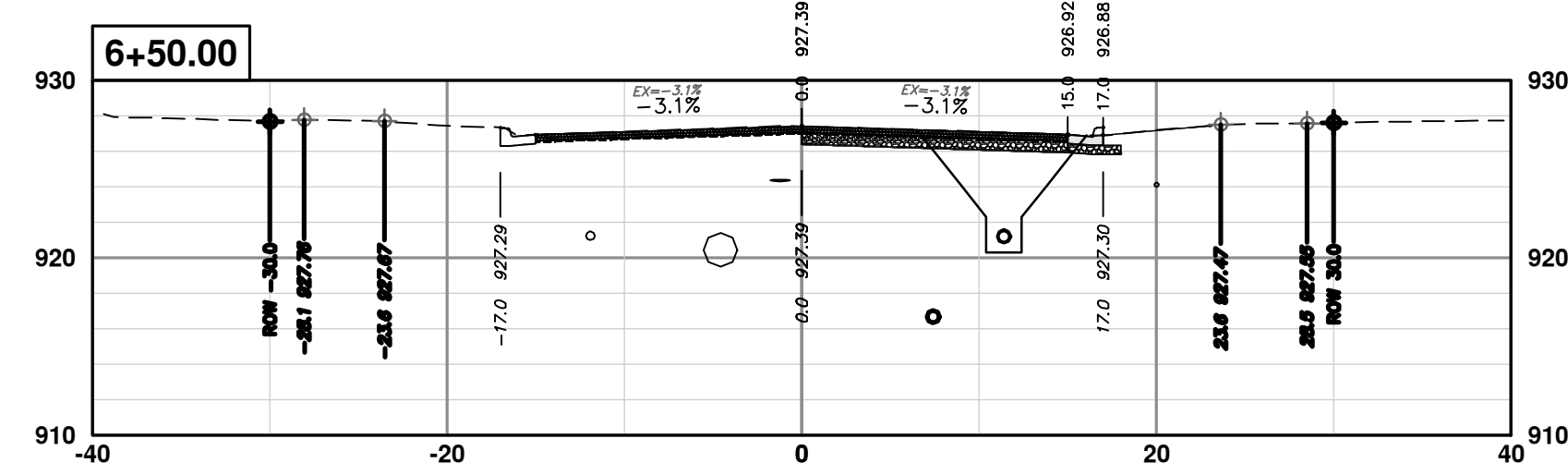
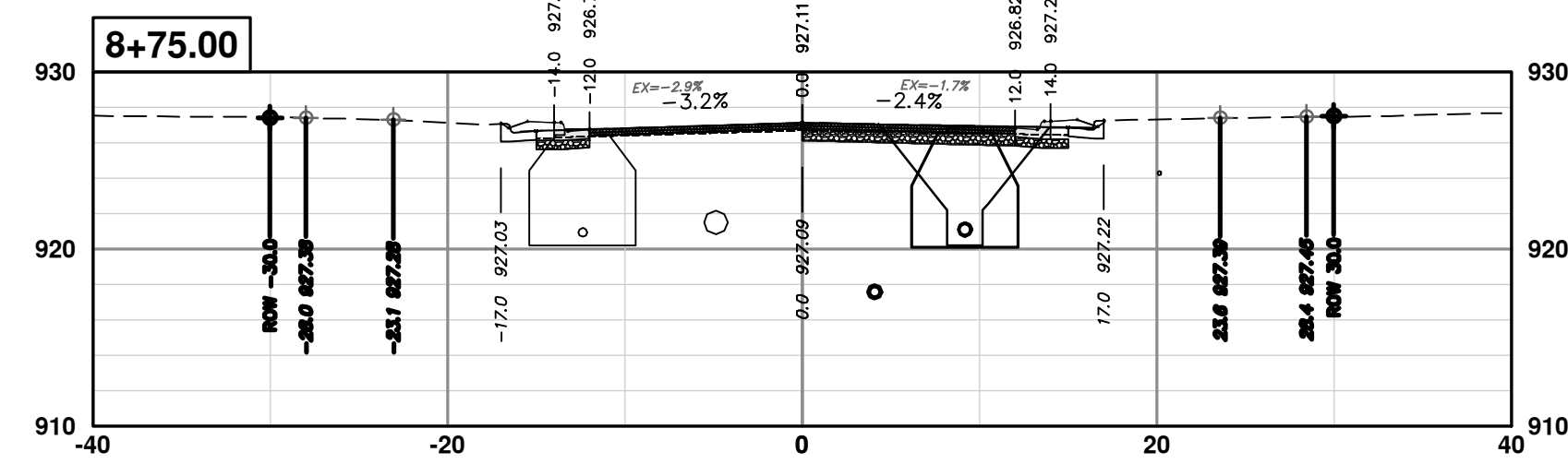
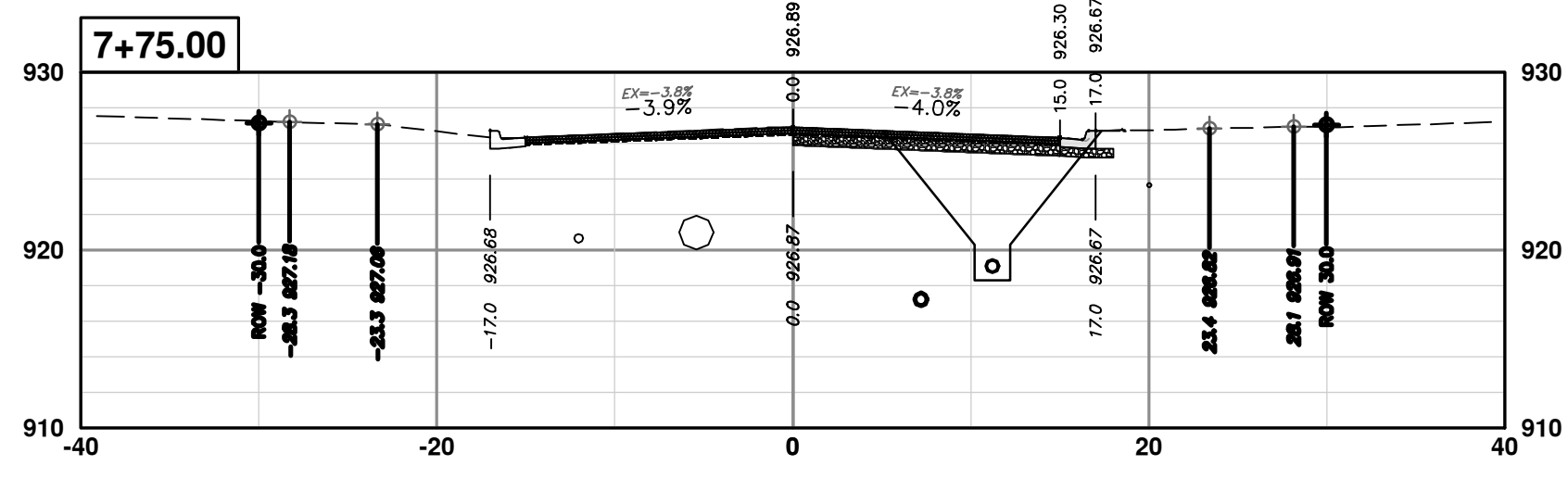
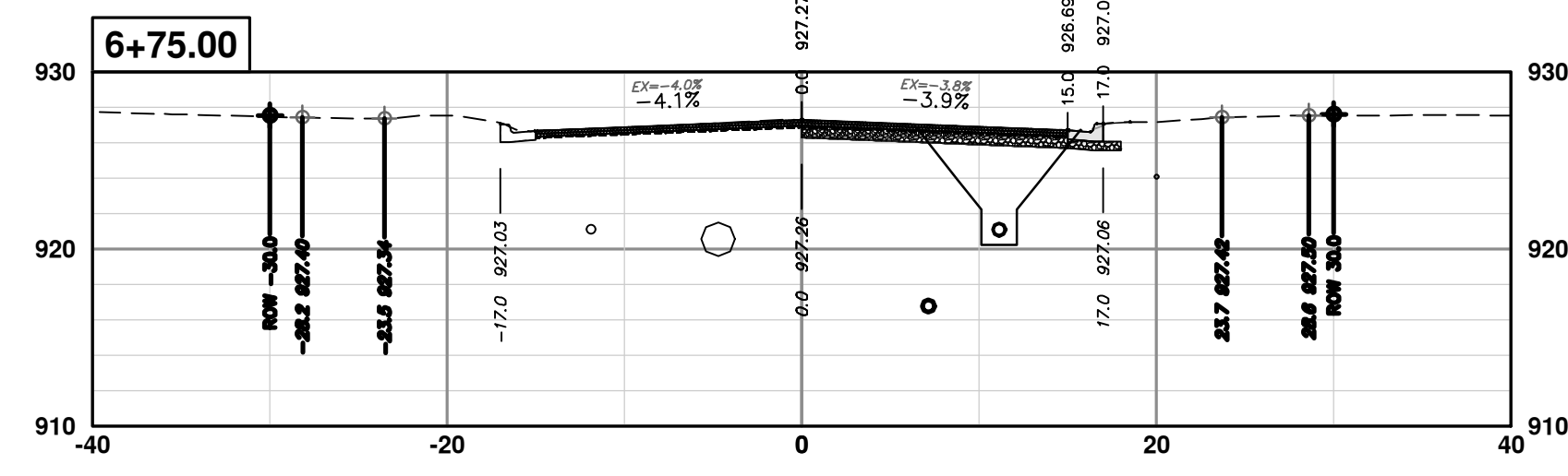
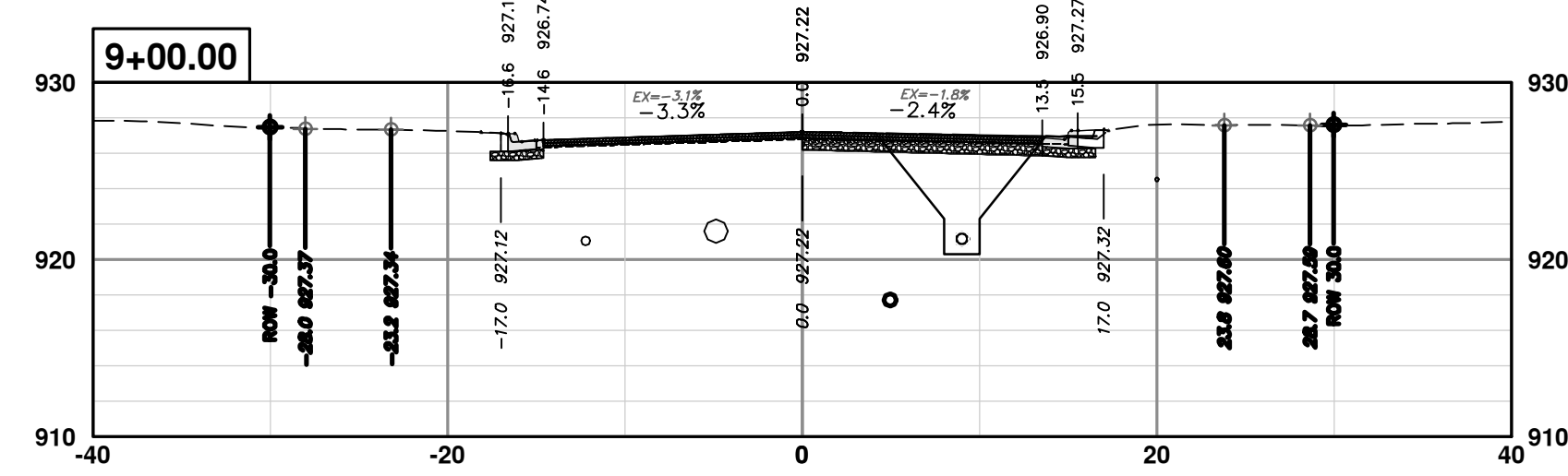
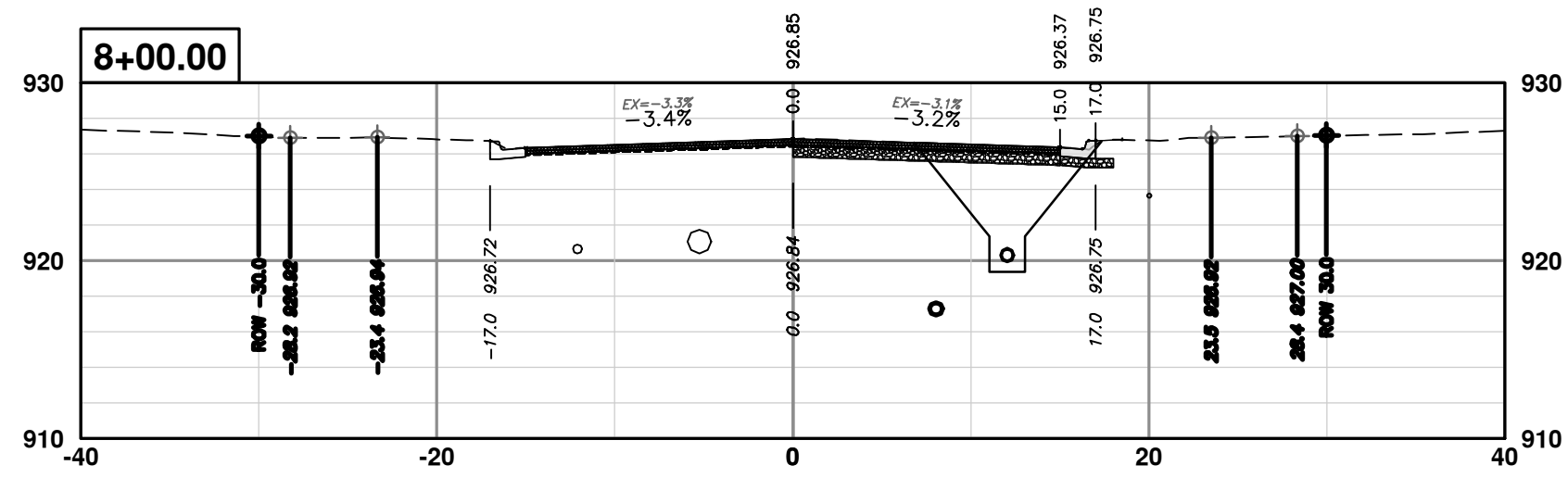
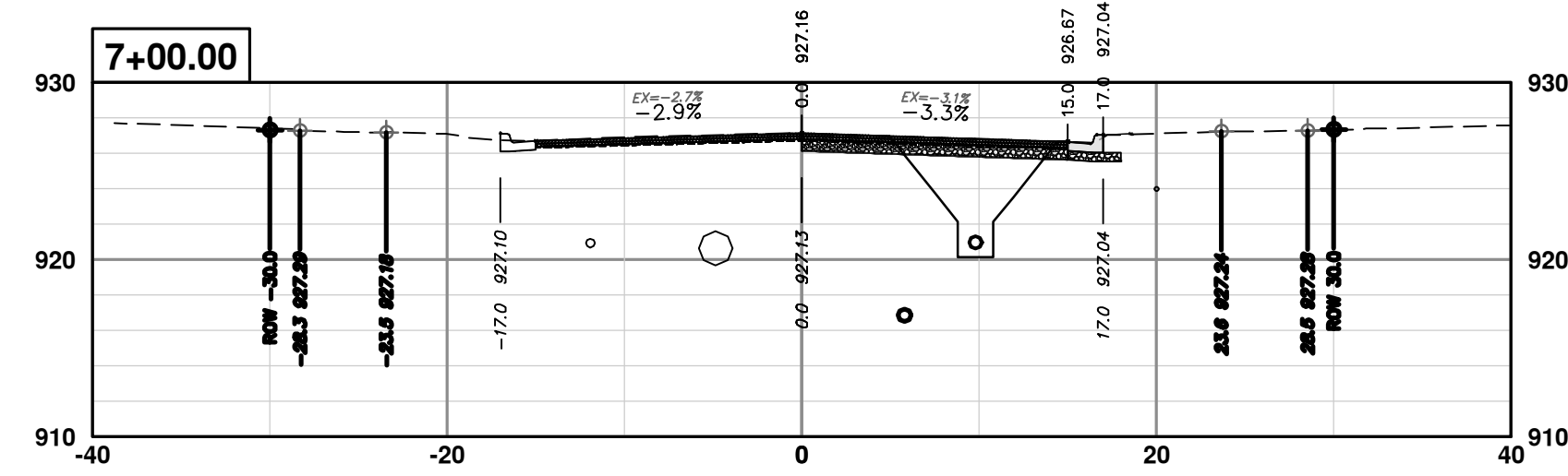
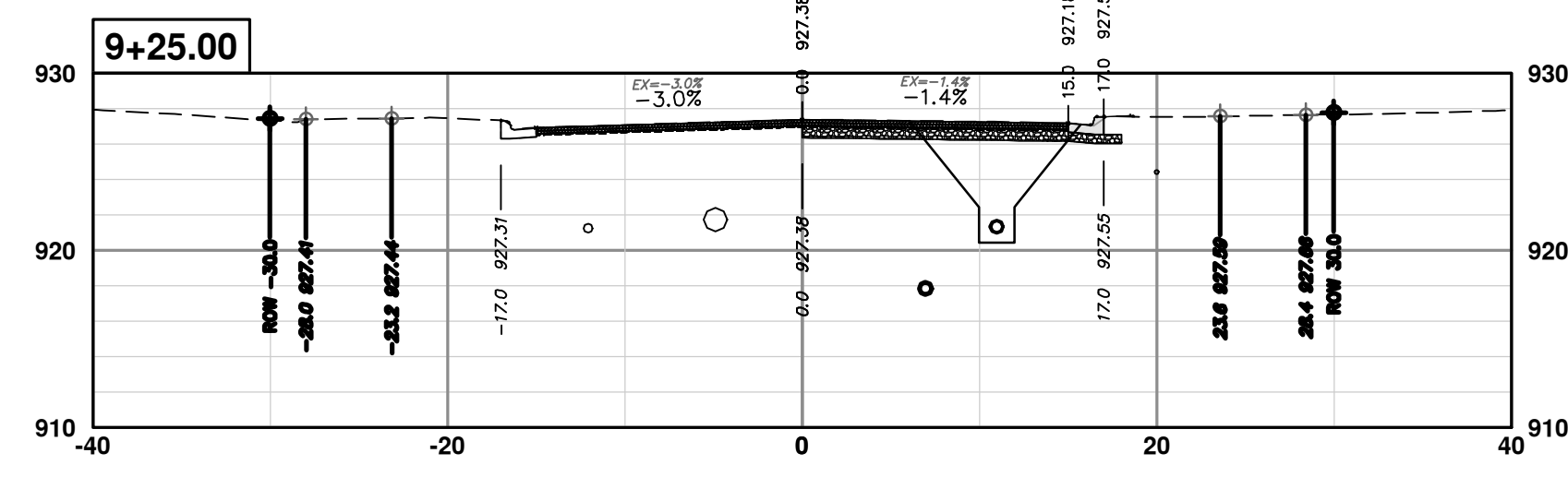
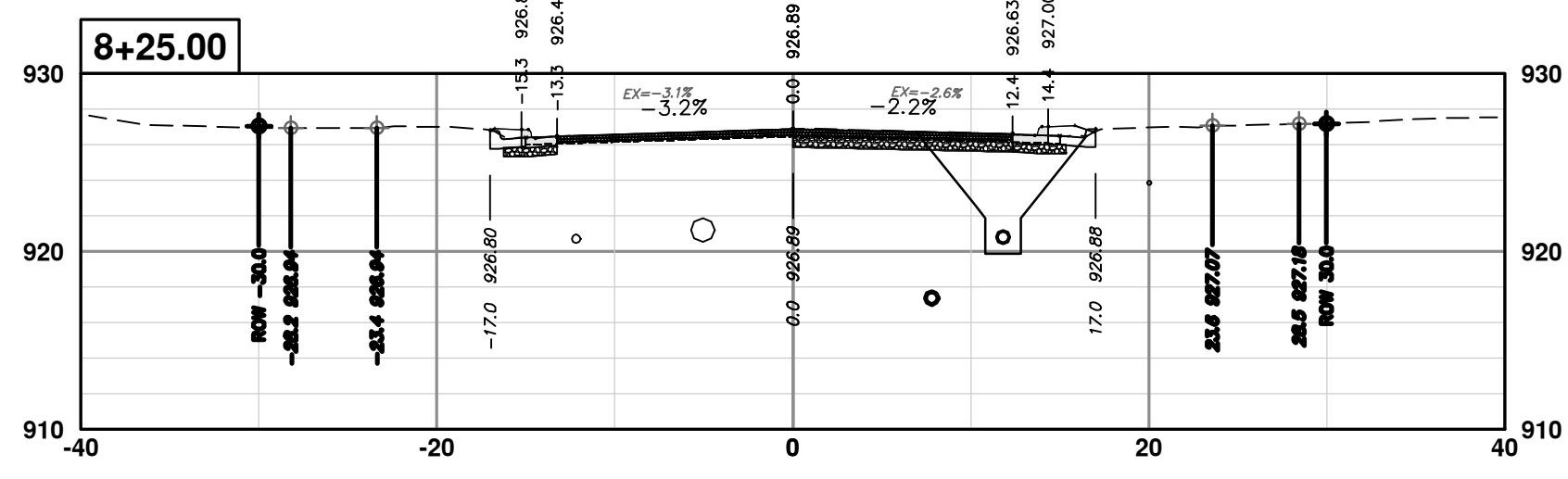
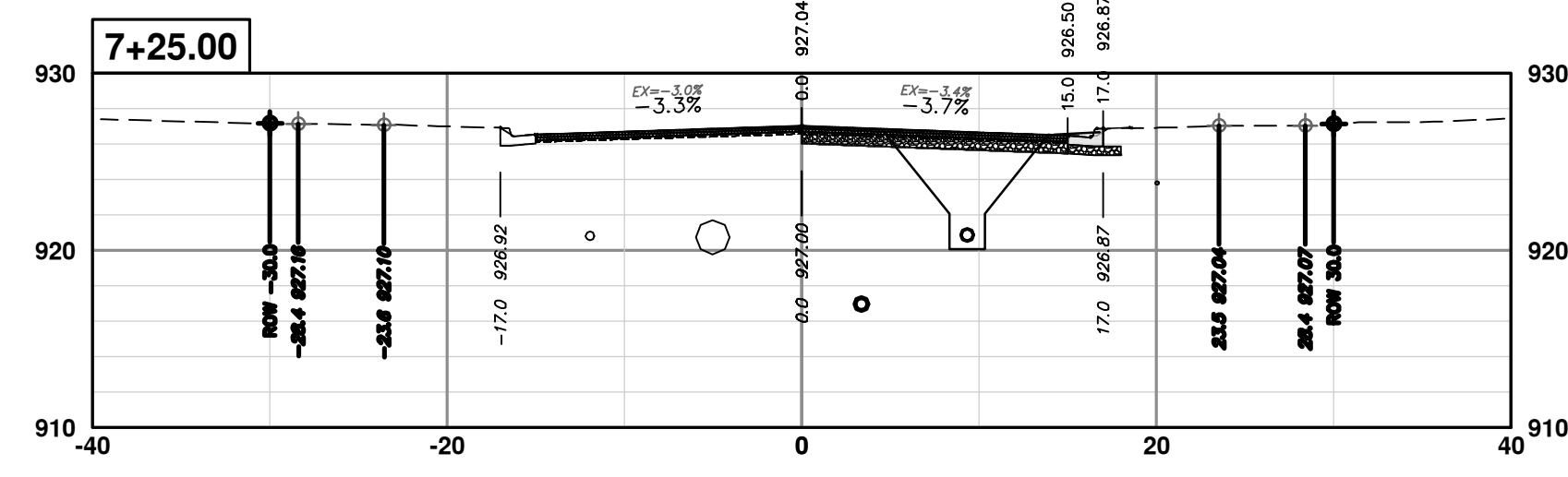
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 STA. 3+50 - STA. 6+25

SCALE PLAN: 1" = 10'  
 PROFILE: 1" = 10'  
 DRAWING No. 2020031-80

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**S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS**

CROSS-SECTIONS - GREENVIEW DRIVE SOUTH  
 STA. 6+50 - STA. 9+25

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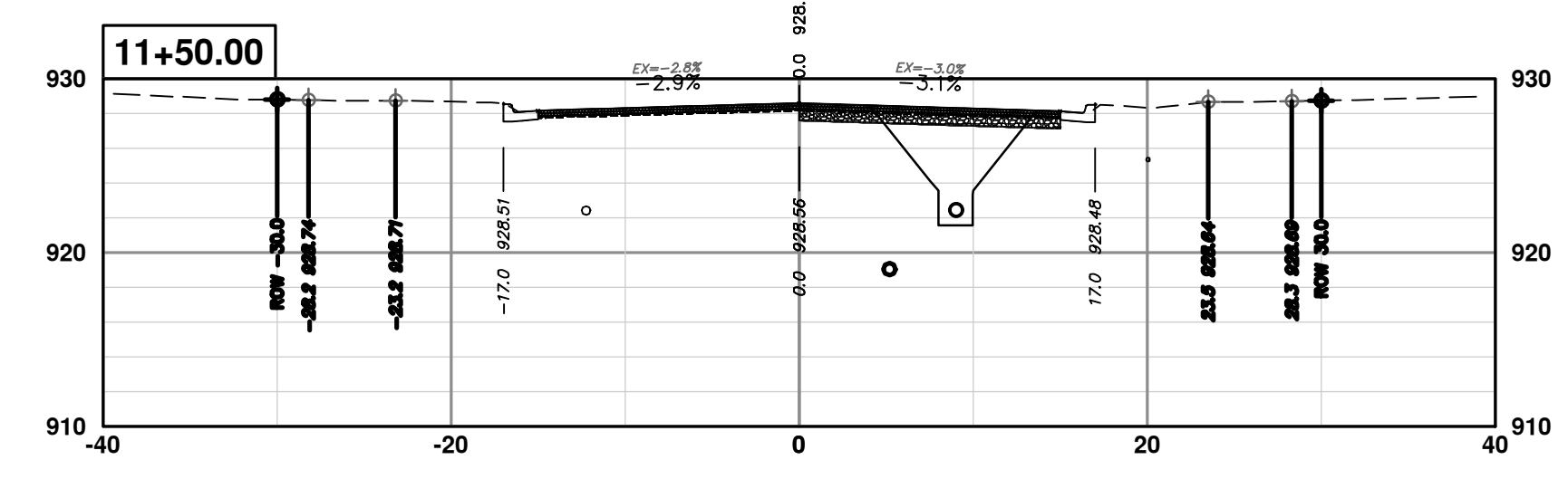
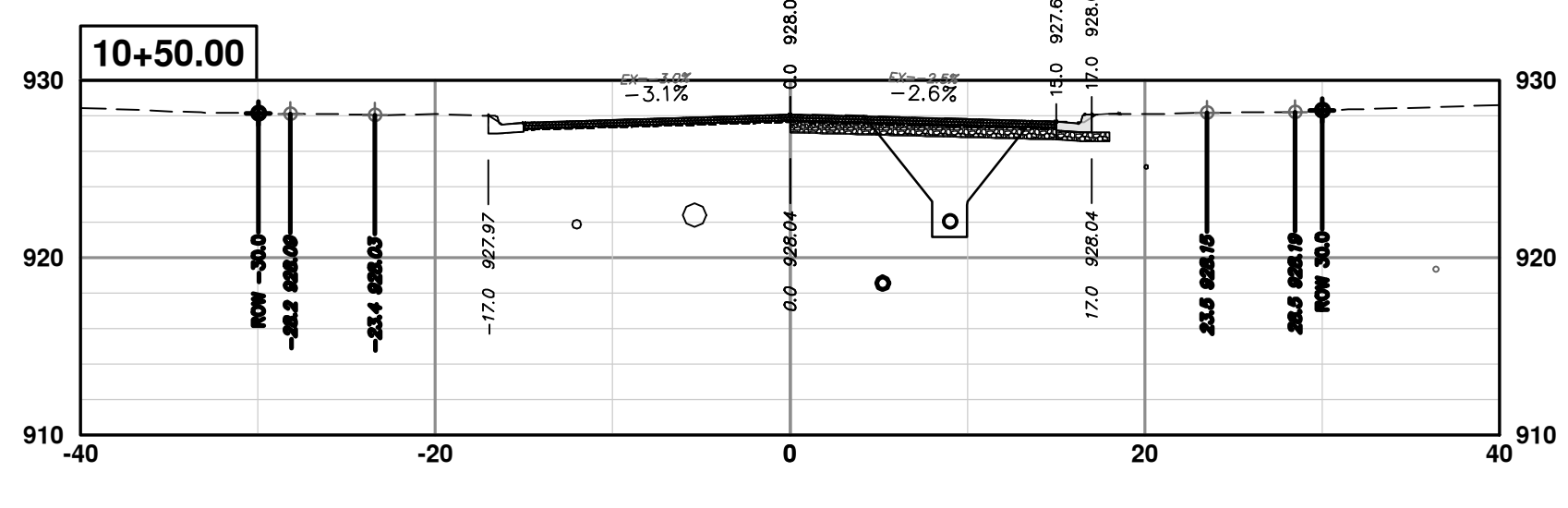
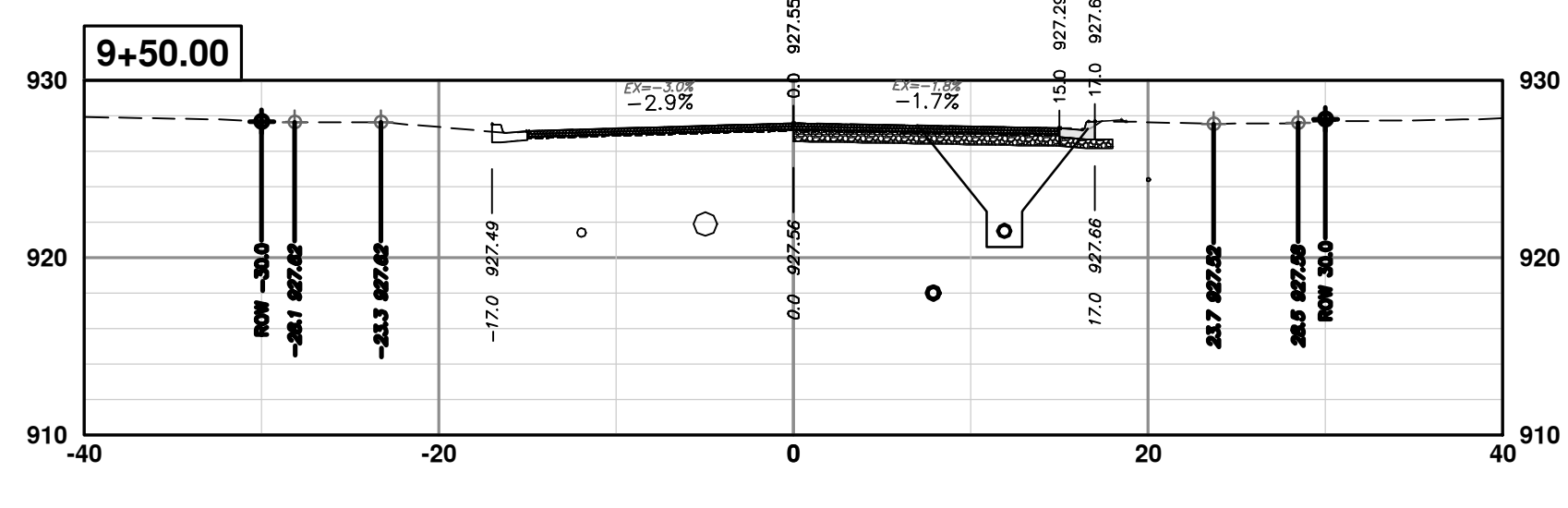
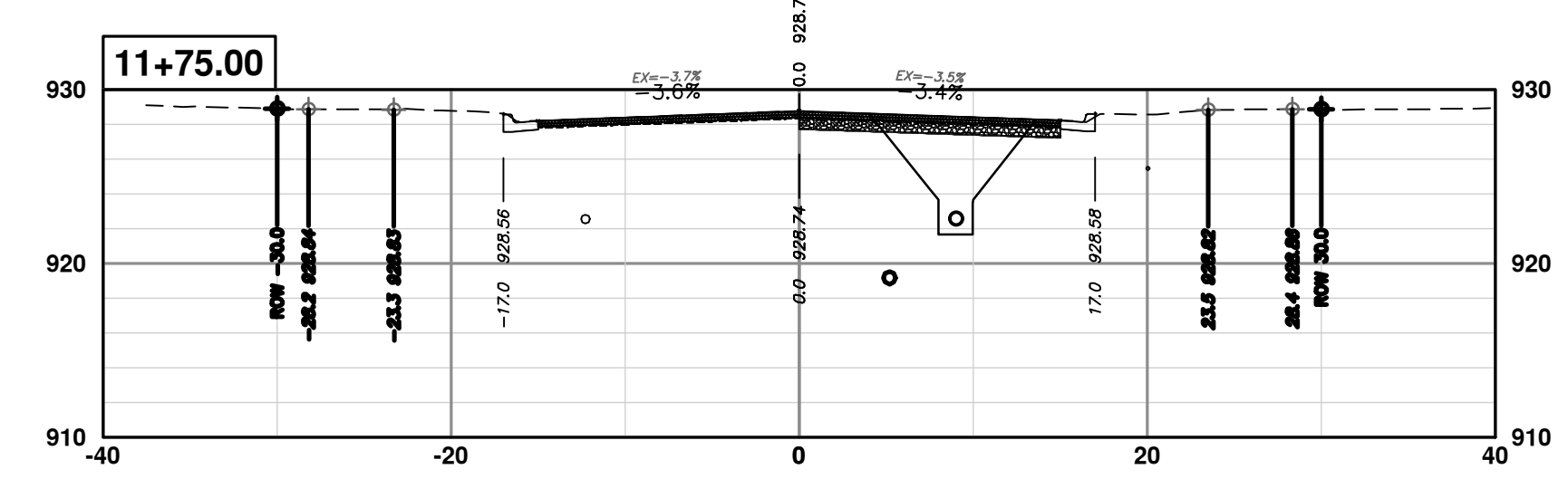
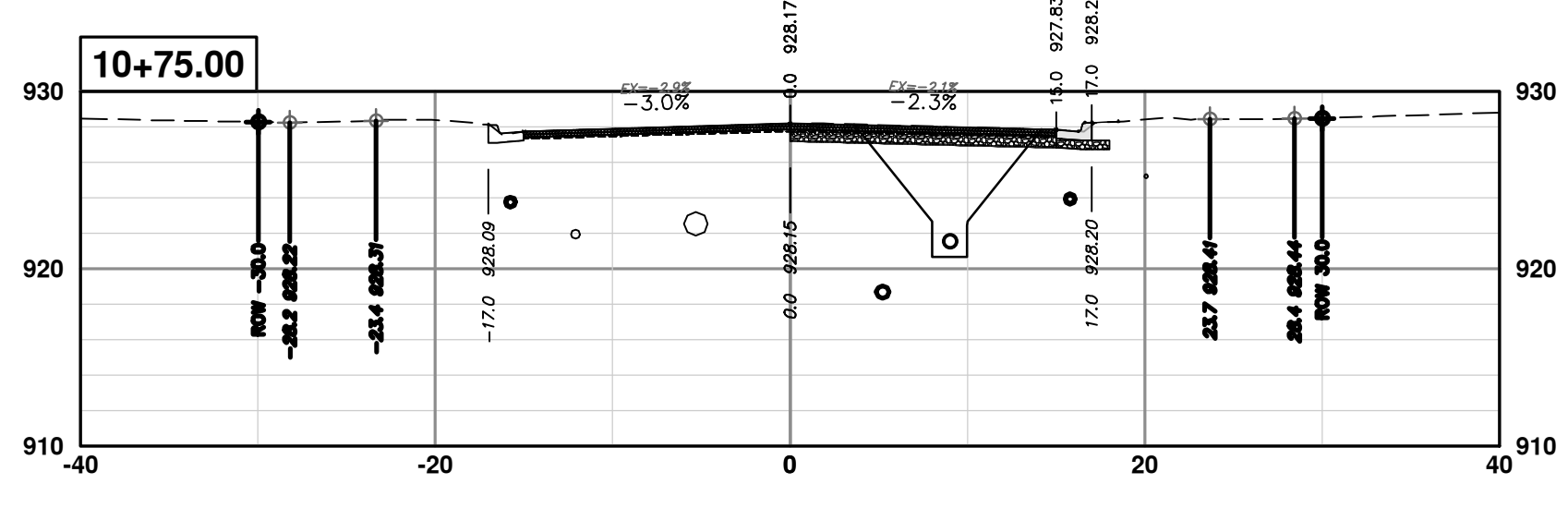
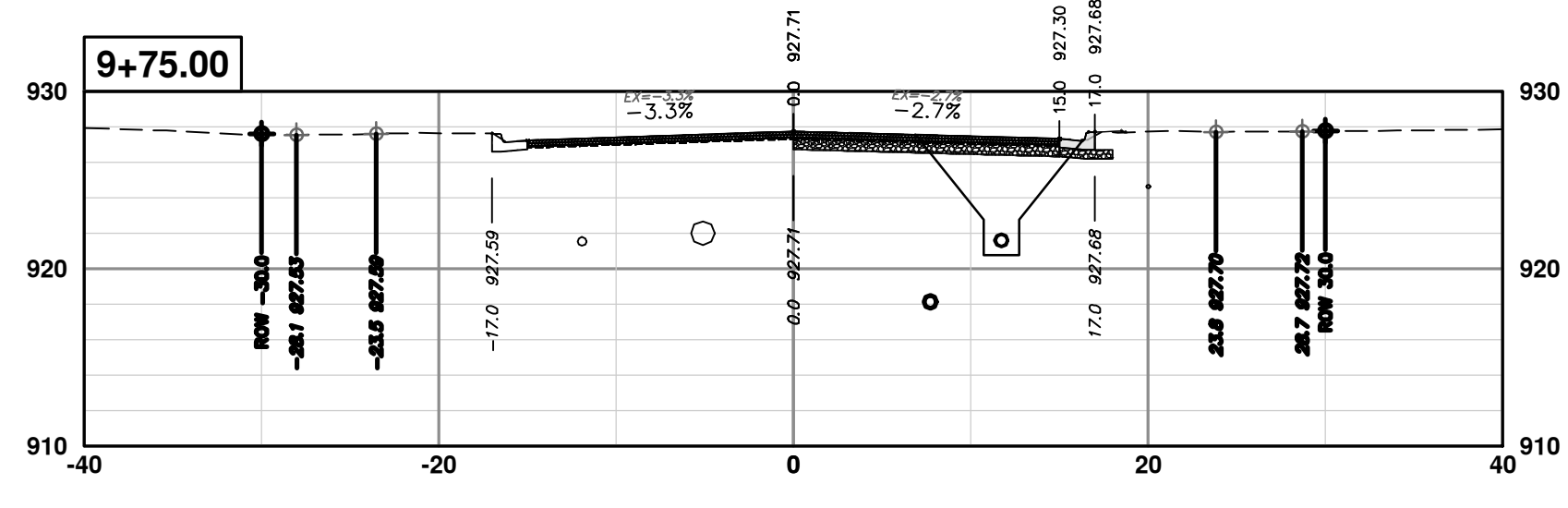
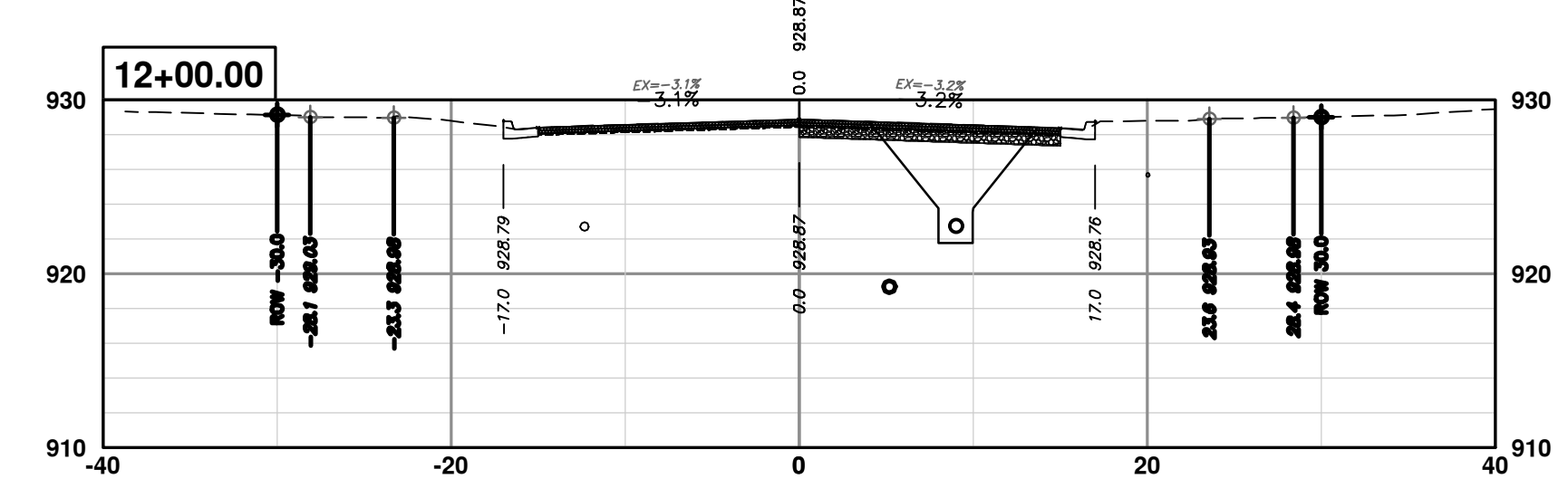
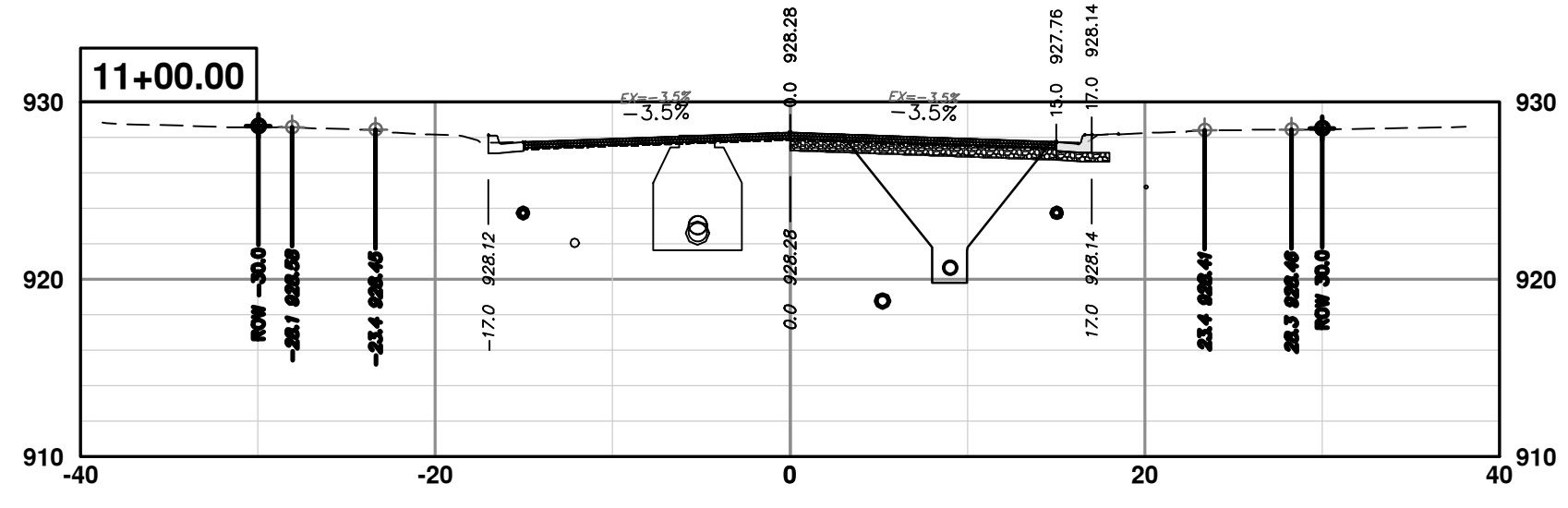
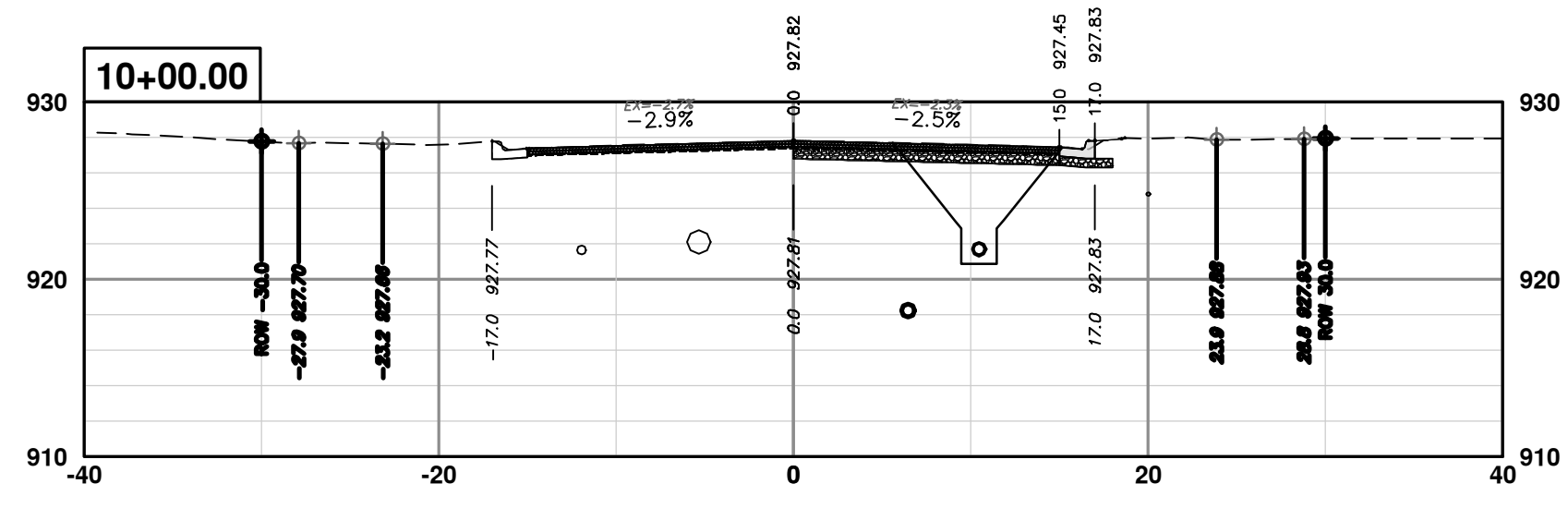
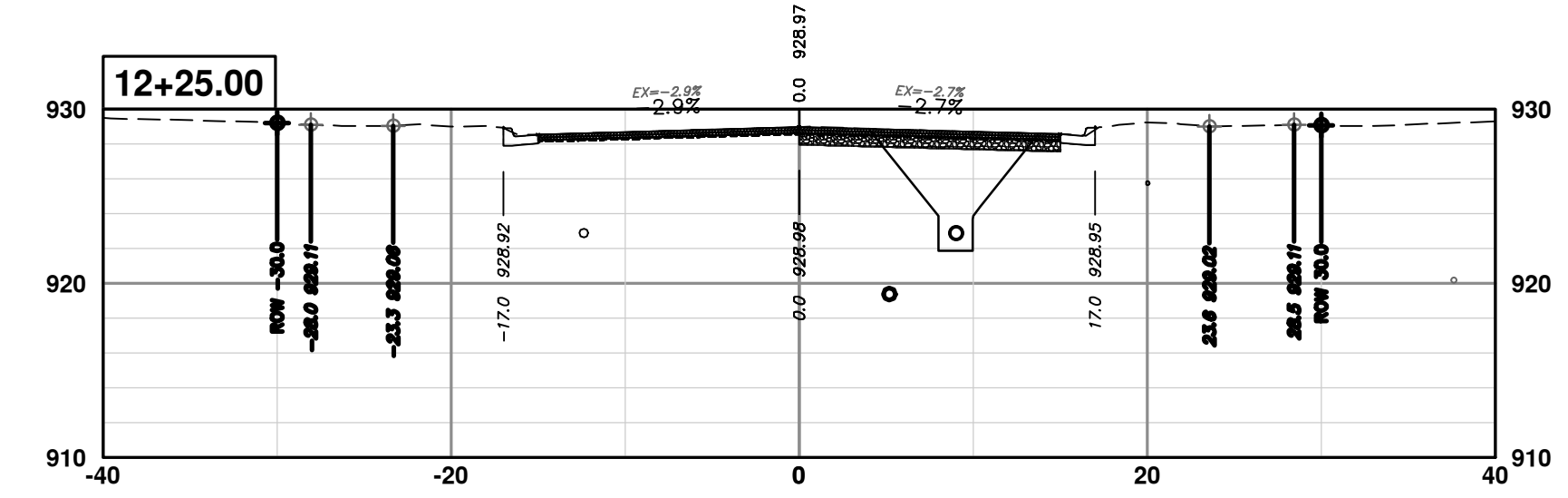
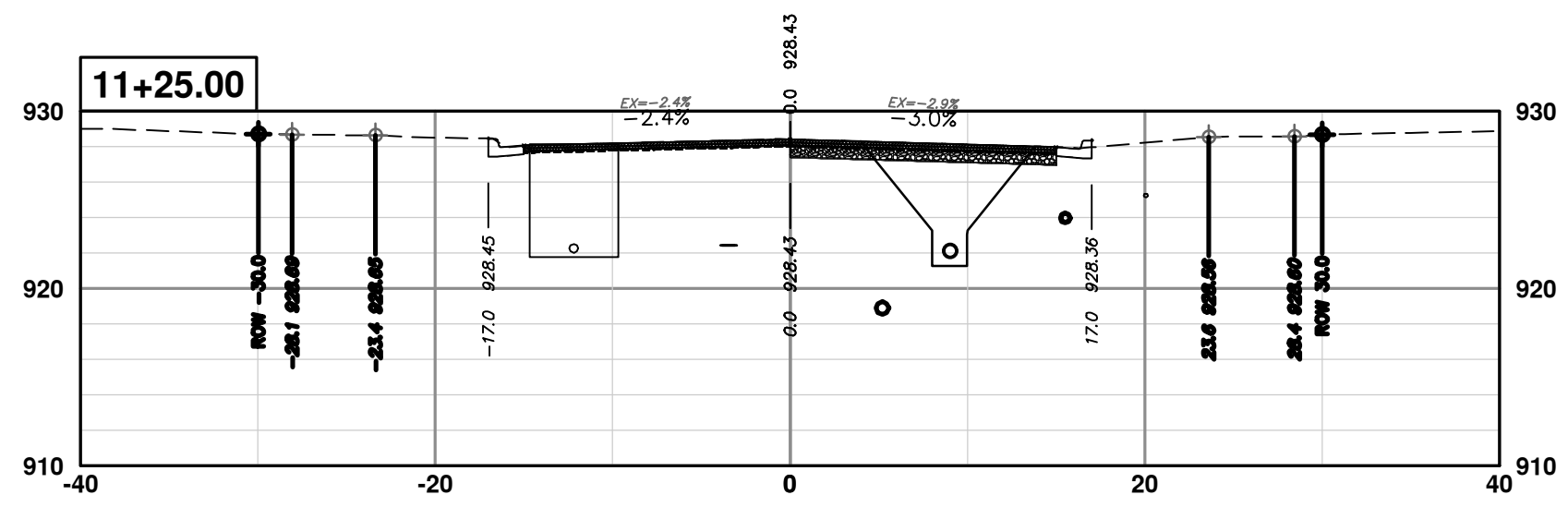
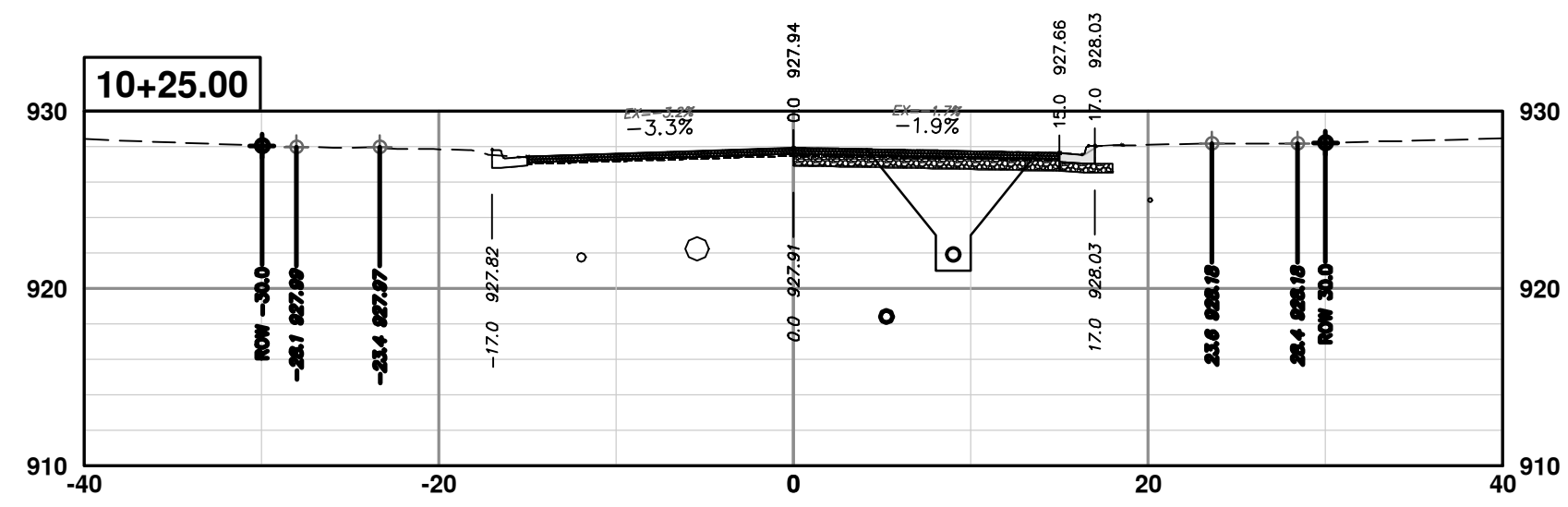
DRAWING No. 2020031-81

SHEET No. 81 OF 92

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01	2-14-24	A2D	TA	ADDENDUM 1
00	1-30-24	A2D	TA	BID SET



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 SCALE PLAN: 1" = 10'  
 PROFILE: 1" = 10'

**82 OF 92**

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 CROSS-SECTIONS - GREENVIEW DRIVE SOUTH  
 STA. 9+50 - STA. 12+25

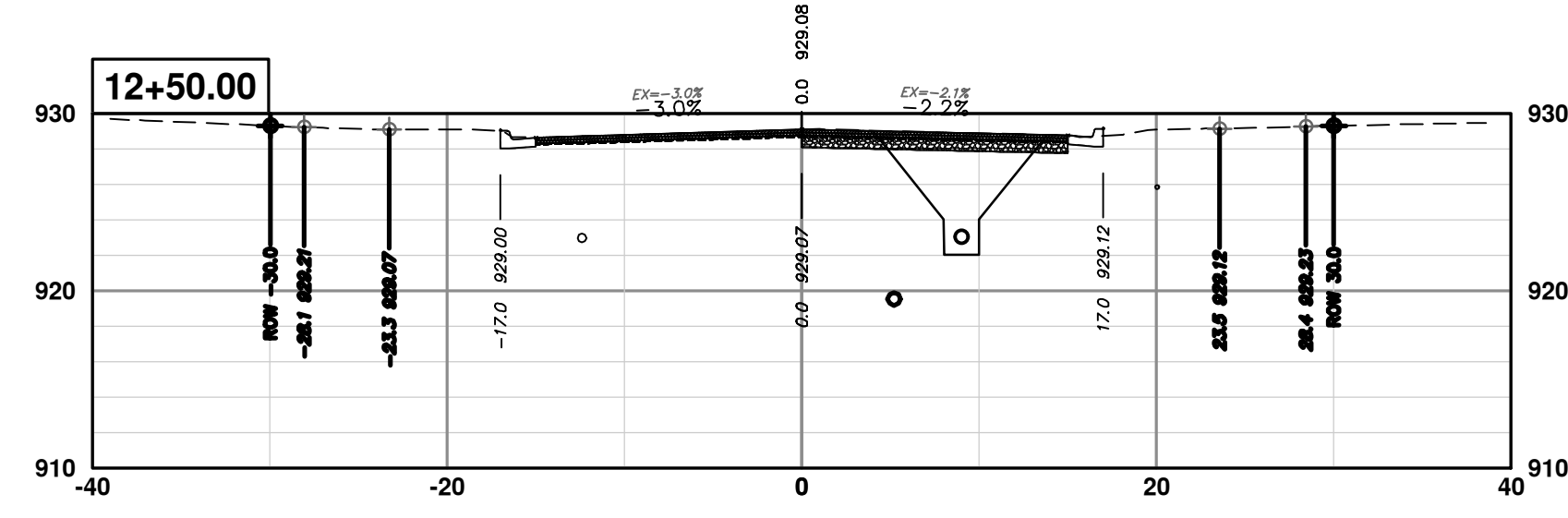
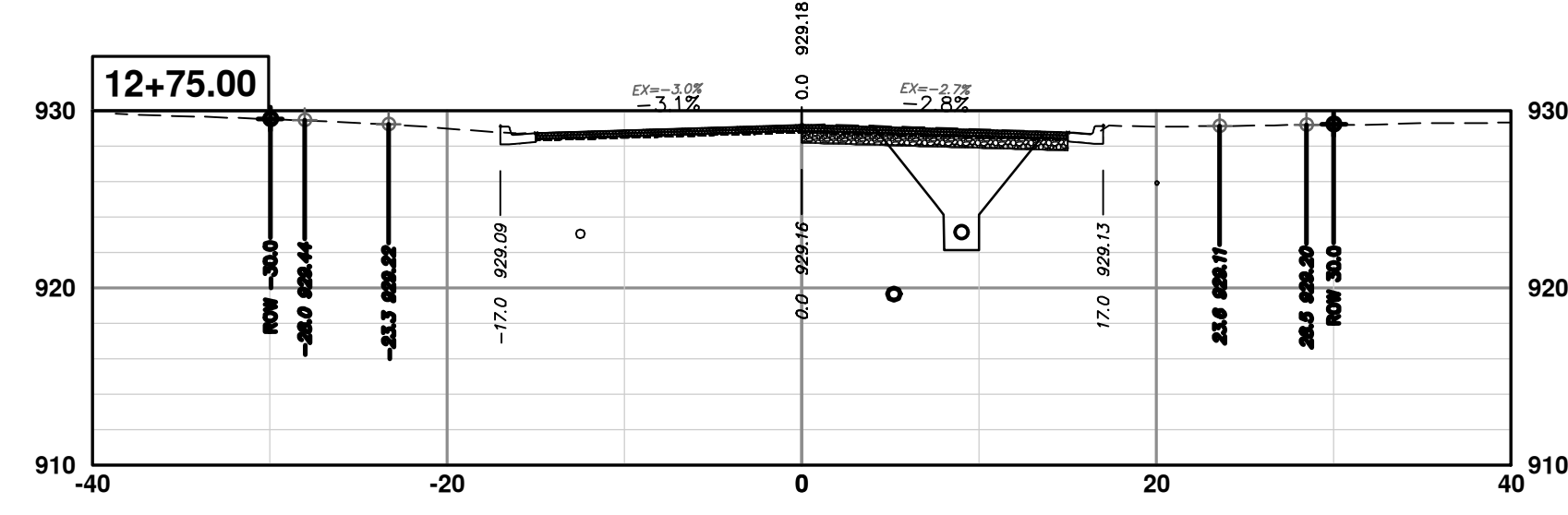
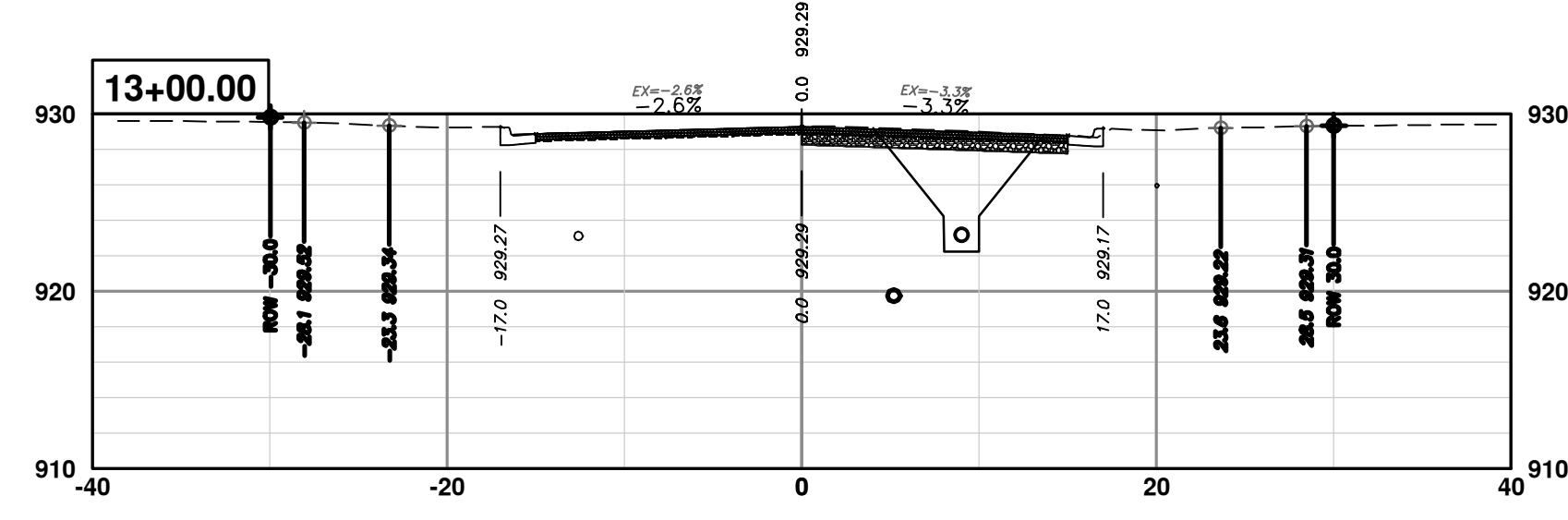
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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
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00	BID SET	1-30-24	A2D	TA

SHEET No. **82 OF 92**

DRAWING No. **2020031-82**

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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
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00	BID SET	1-30-24	A2D	TA

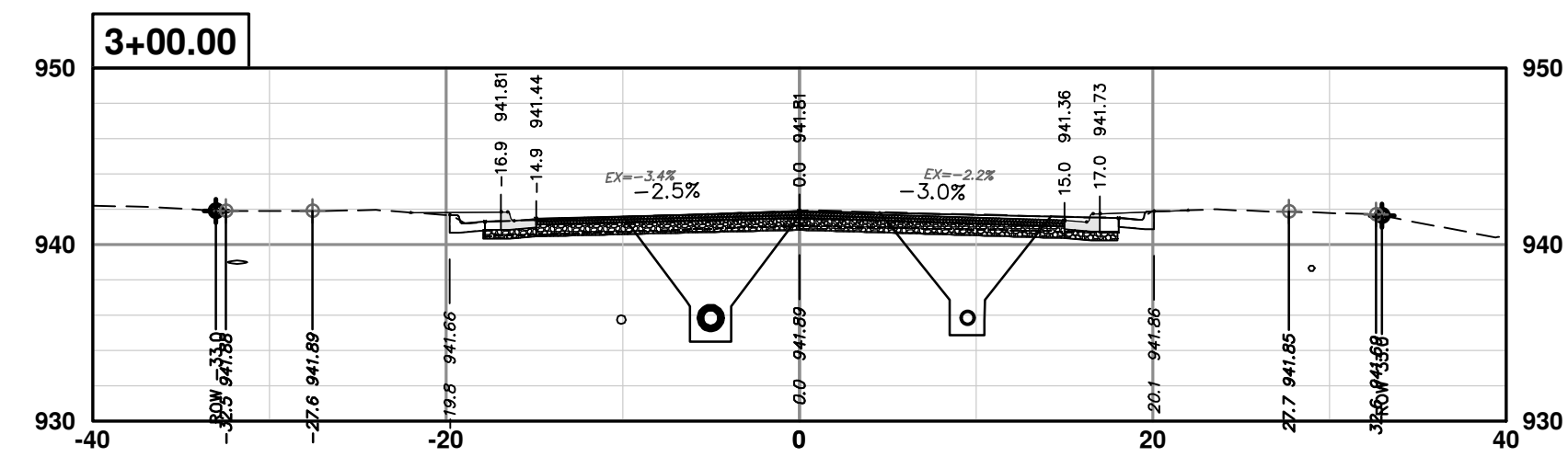
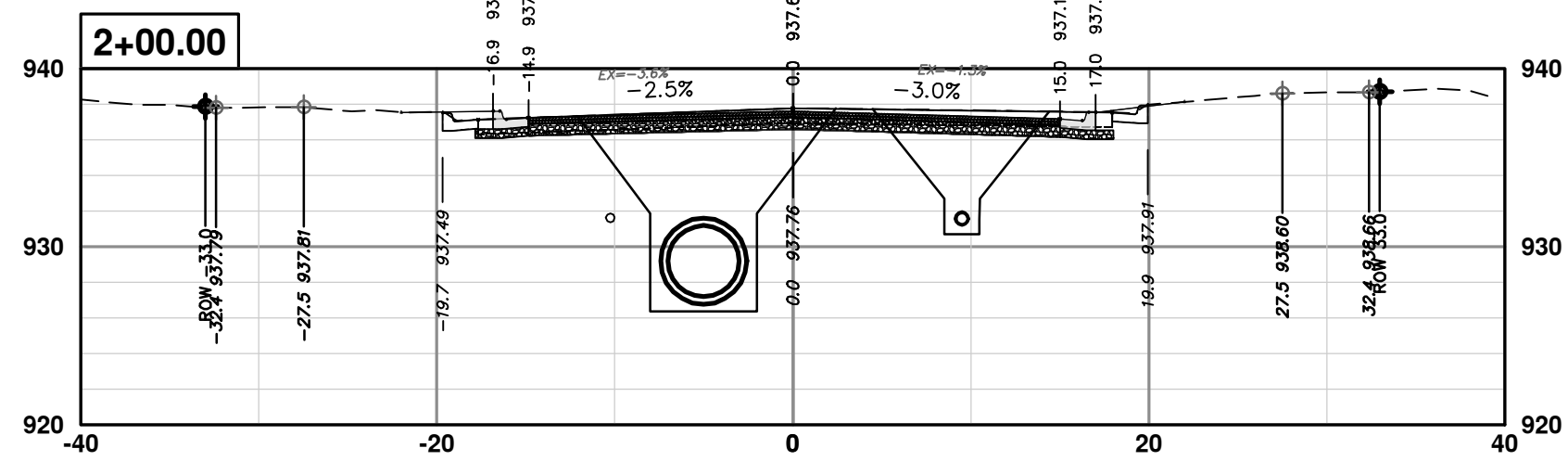
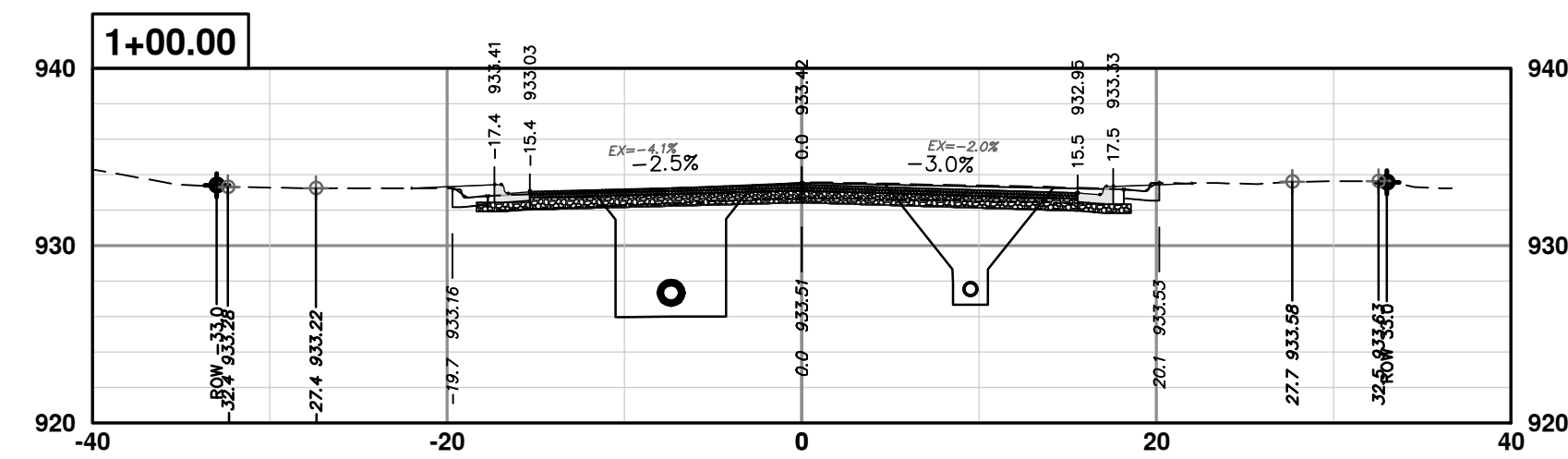
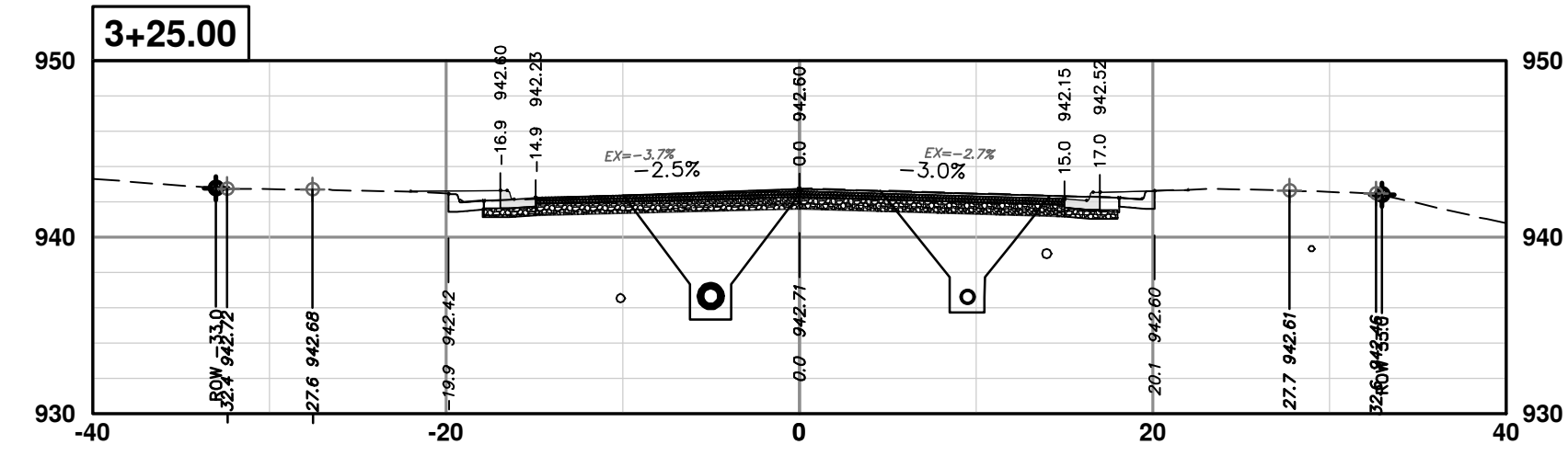
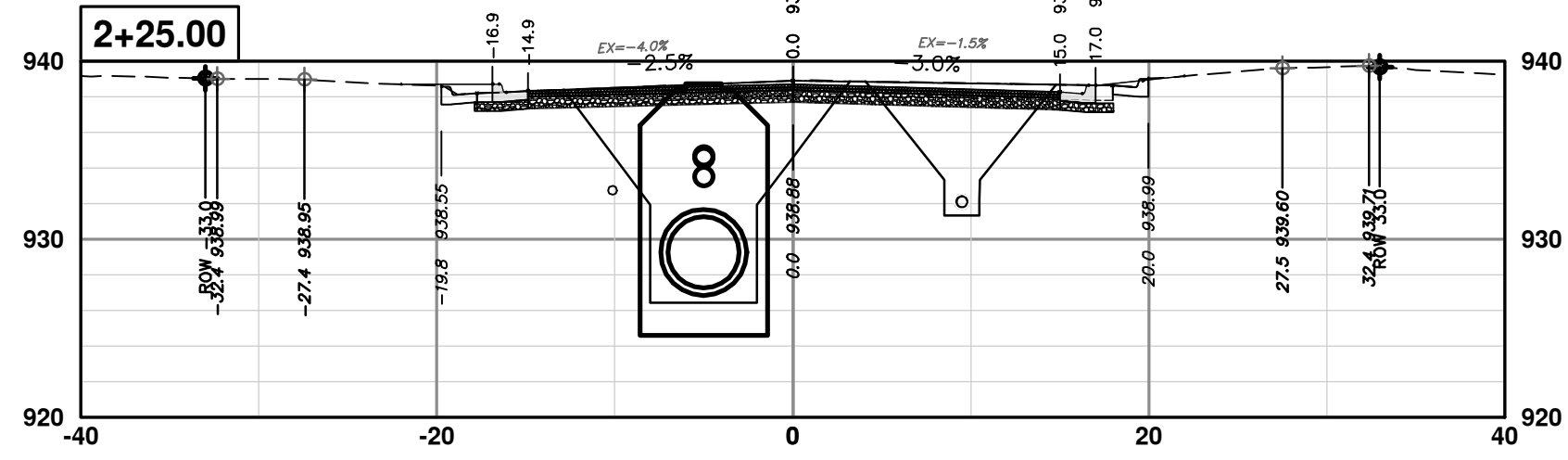
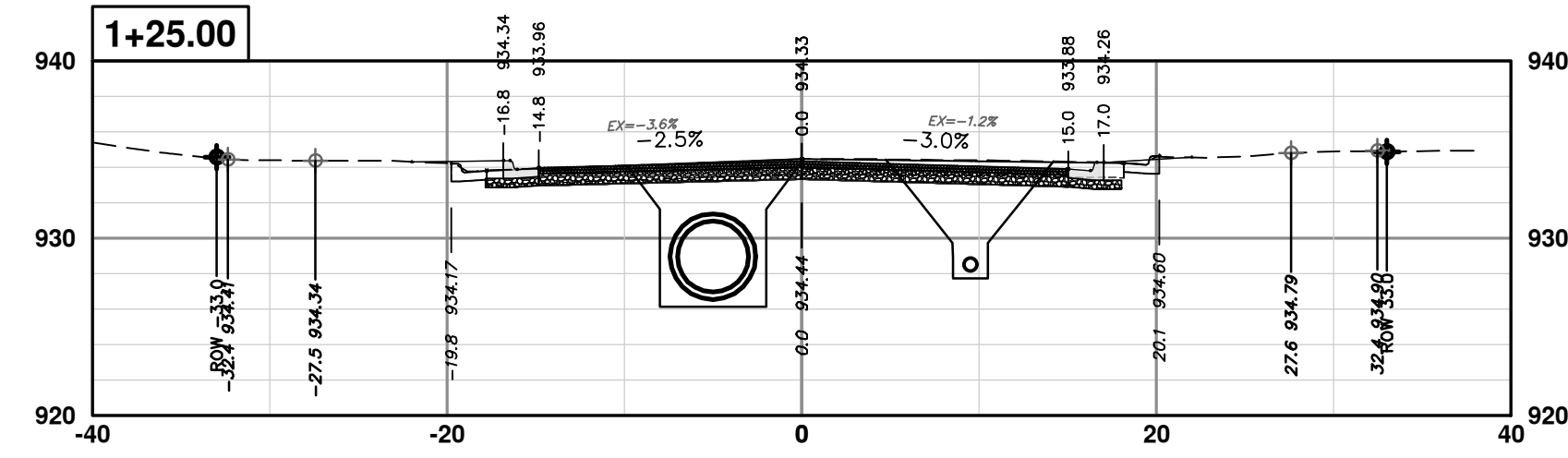
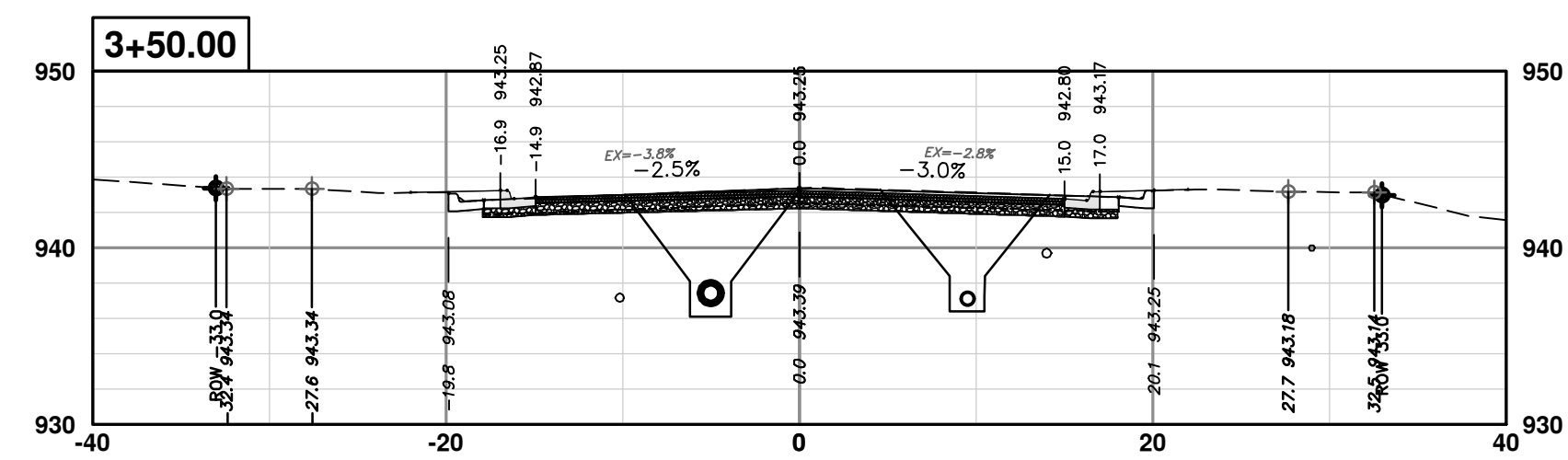
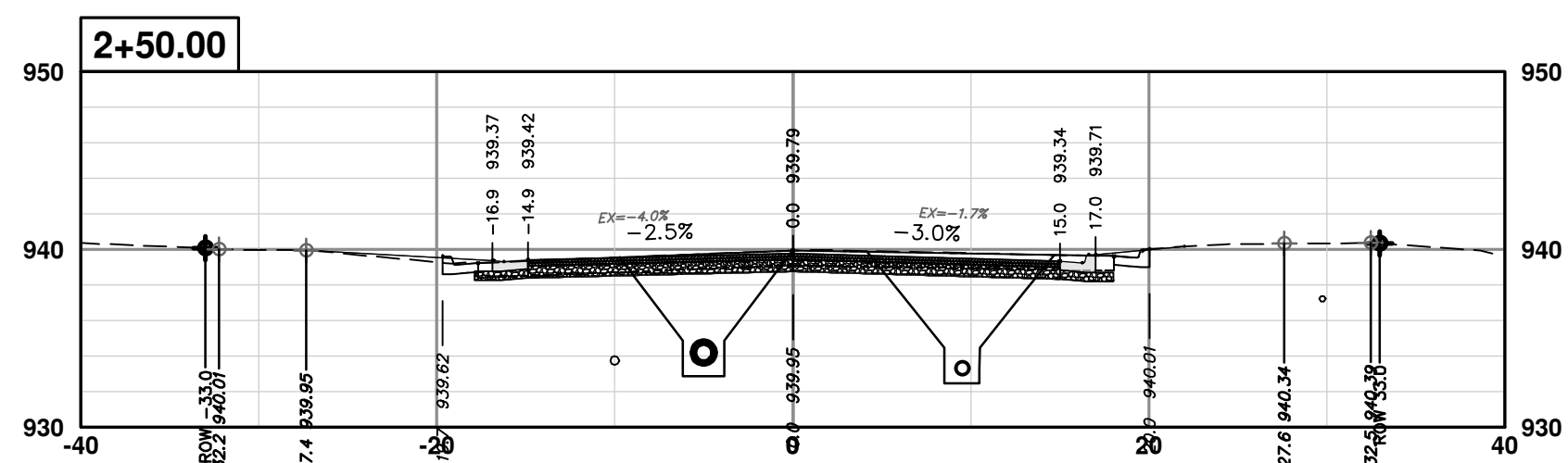
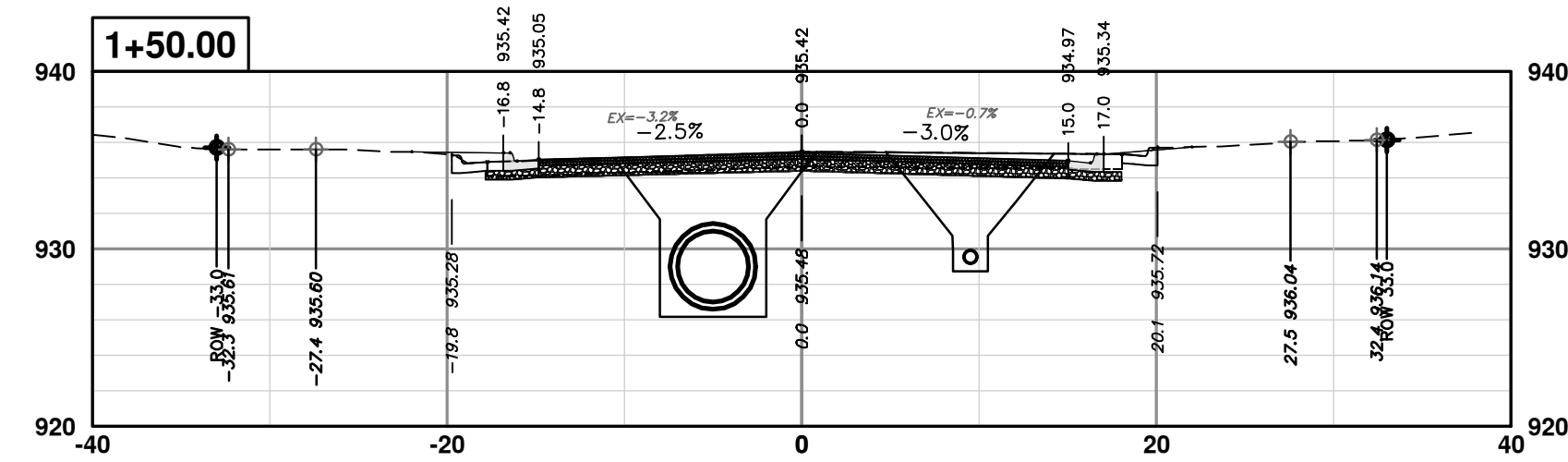
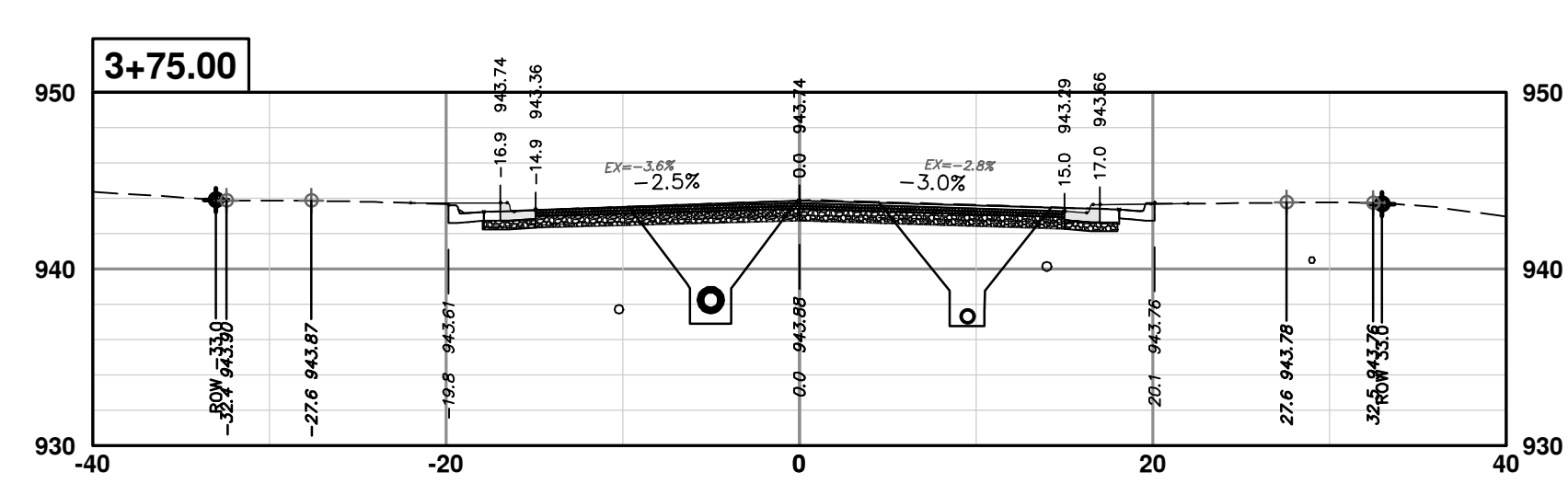
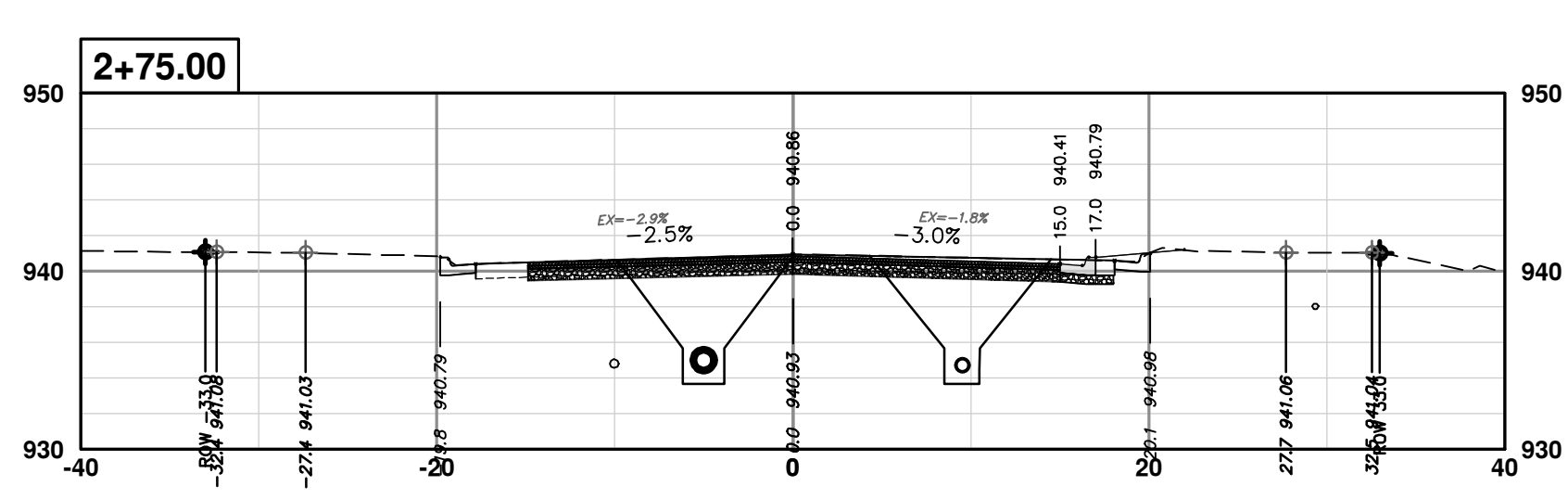
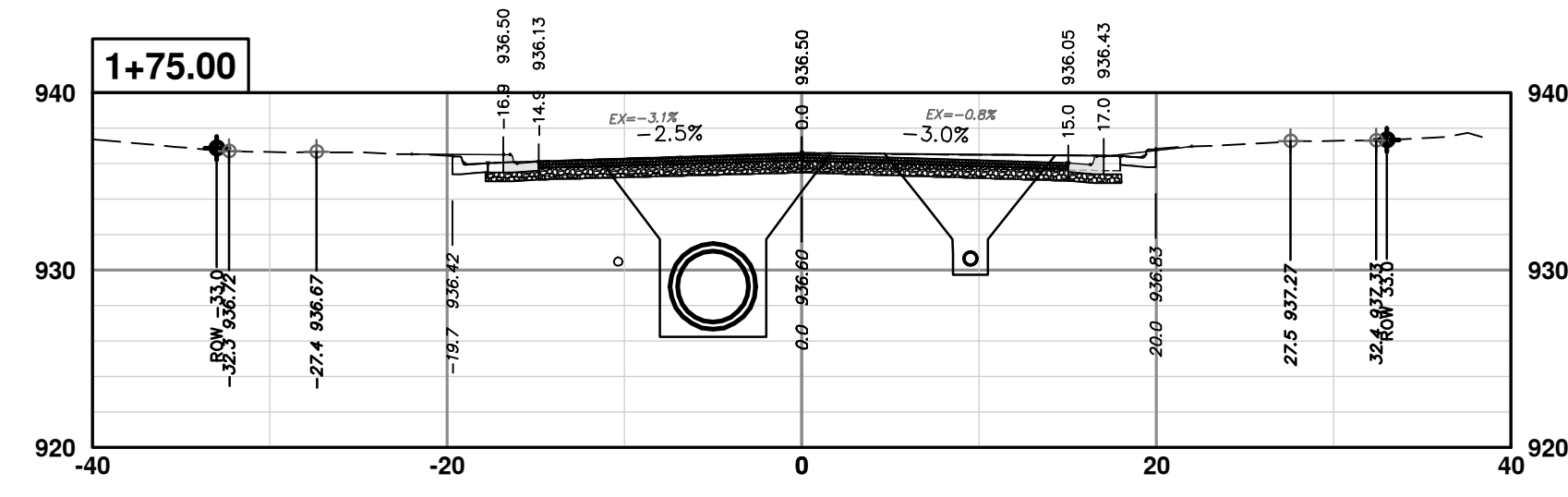
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CROSS-SECTIONS - GREENVIEW DRIVE SOUTH  
STA. 12+50 - STA. 13+00

SCALE PLAN: 1" = 10'  
PROFILE: 1" = 10'  
DRAWING No. 2020031-83

R:\2023002\_Greenview\_Plan\_Production\2023002Xct.dwg Dwg Created: 30-Jan-24 - \_a2\_standard\_bw.stb - Plot Date: 14-Feb-24



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CROSS-SECTIONS - GREENVIEW DRIVE NORTH  
STA. 1+00 - STA. 3+75

SCALE PLAN: 1" = 10'  
PROFILE: 1" = 10'


DRAWING No. 2020031-84

SHEET No. 84 OF 92



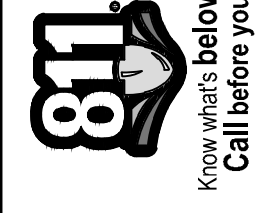
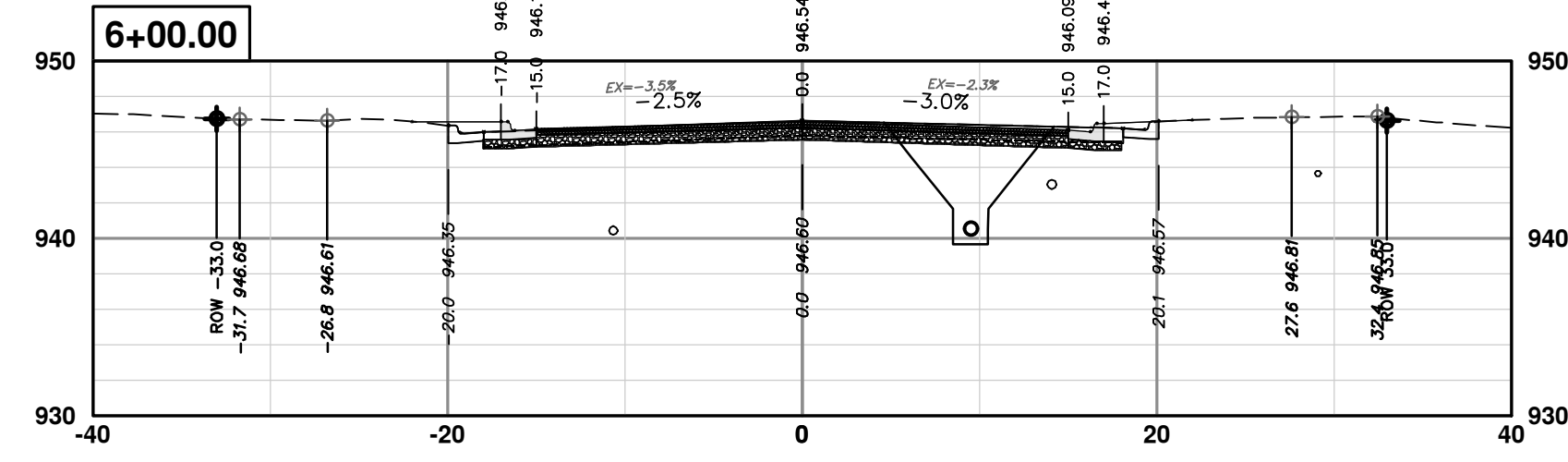
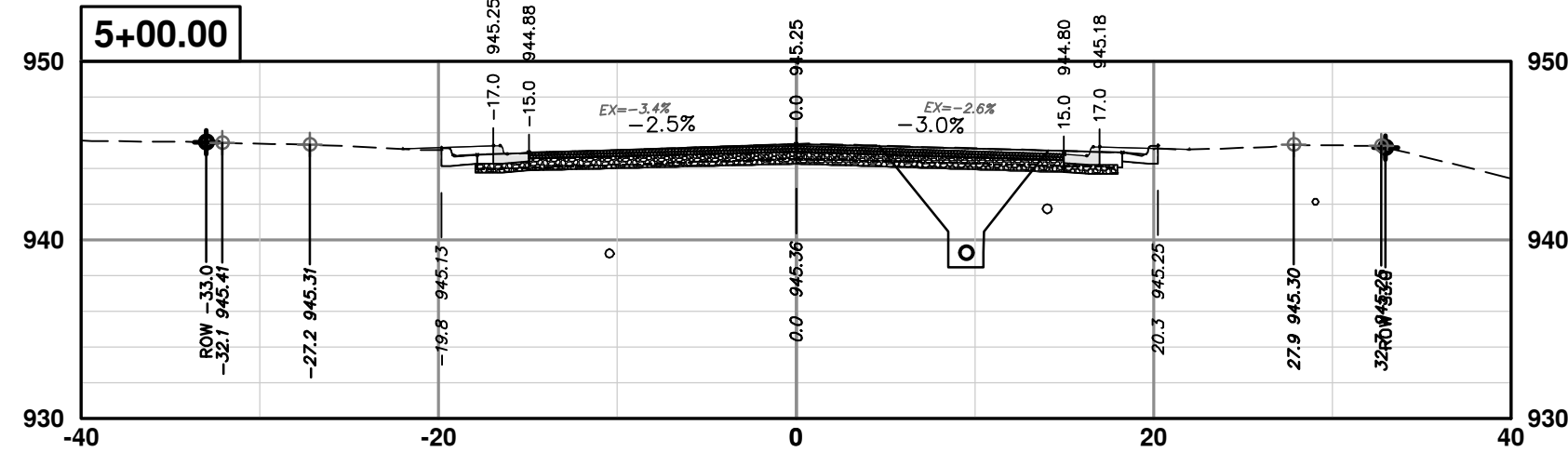
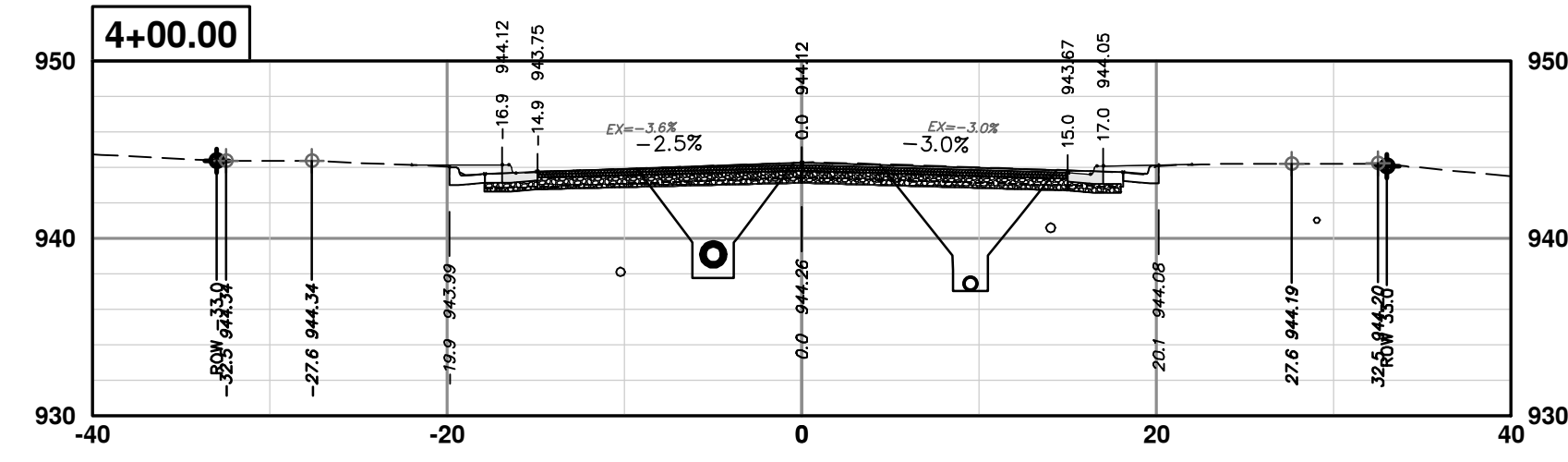
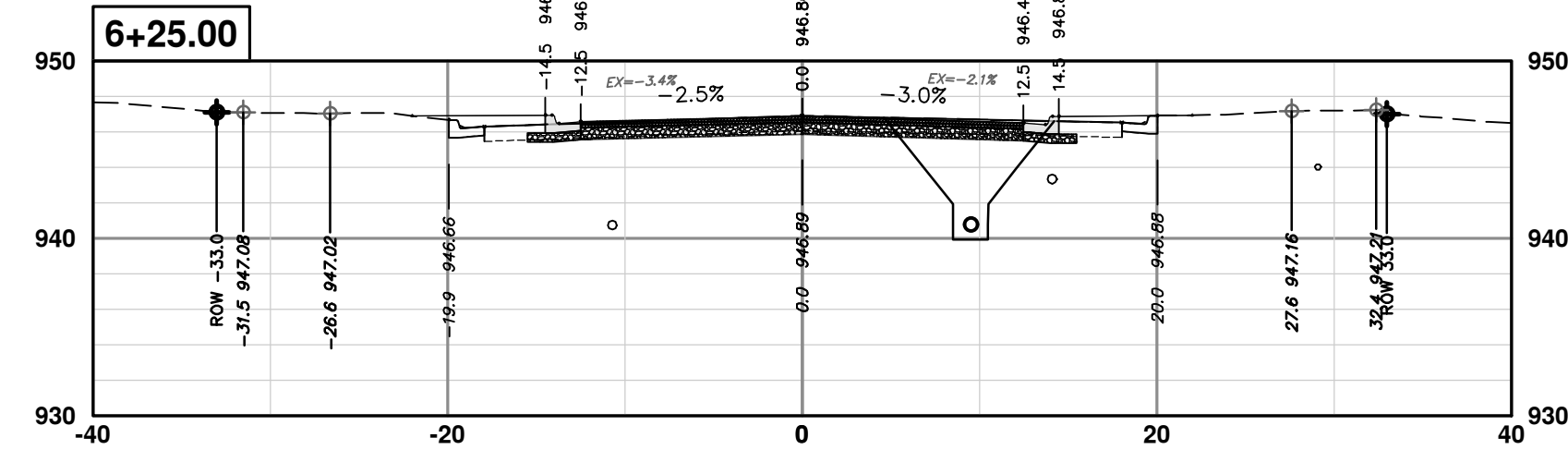
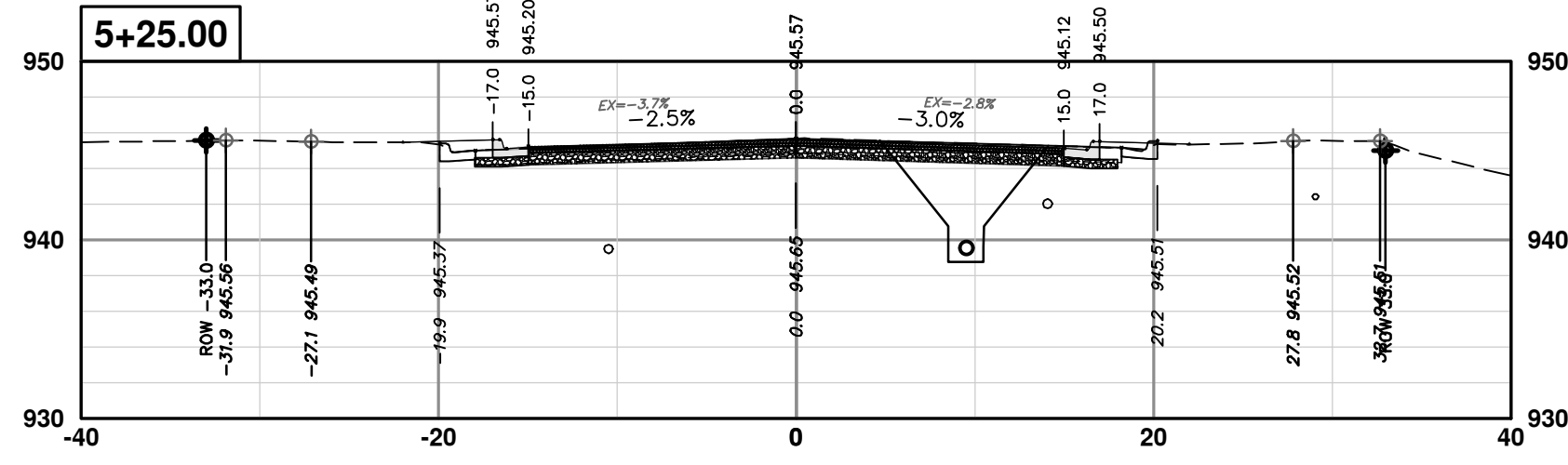
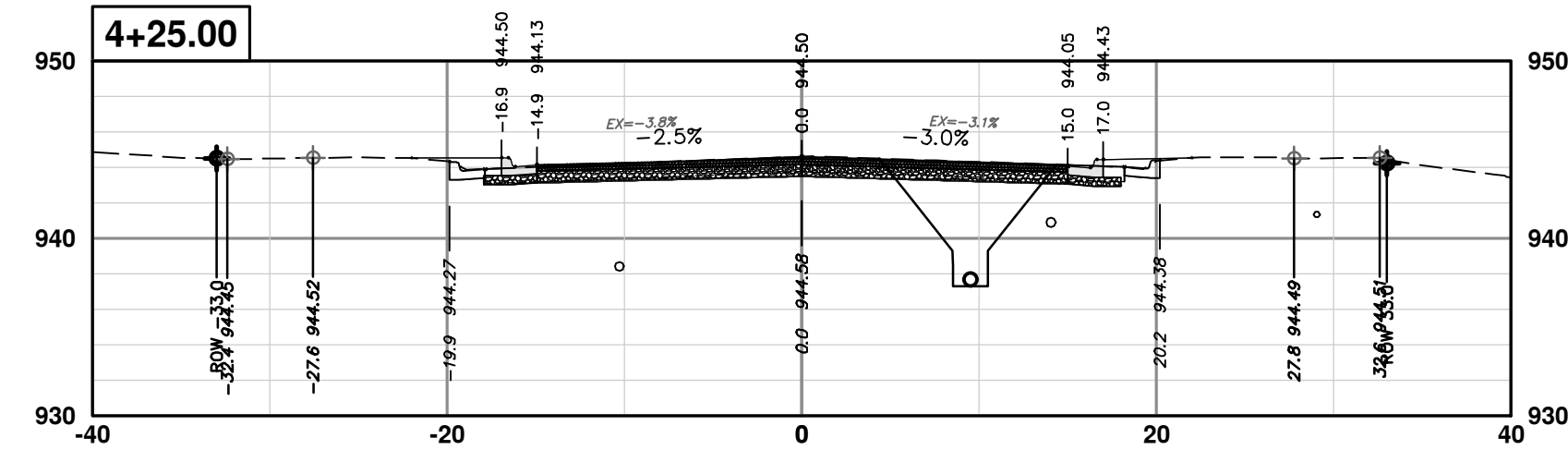
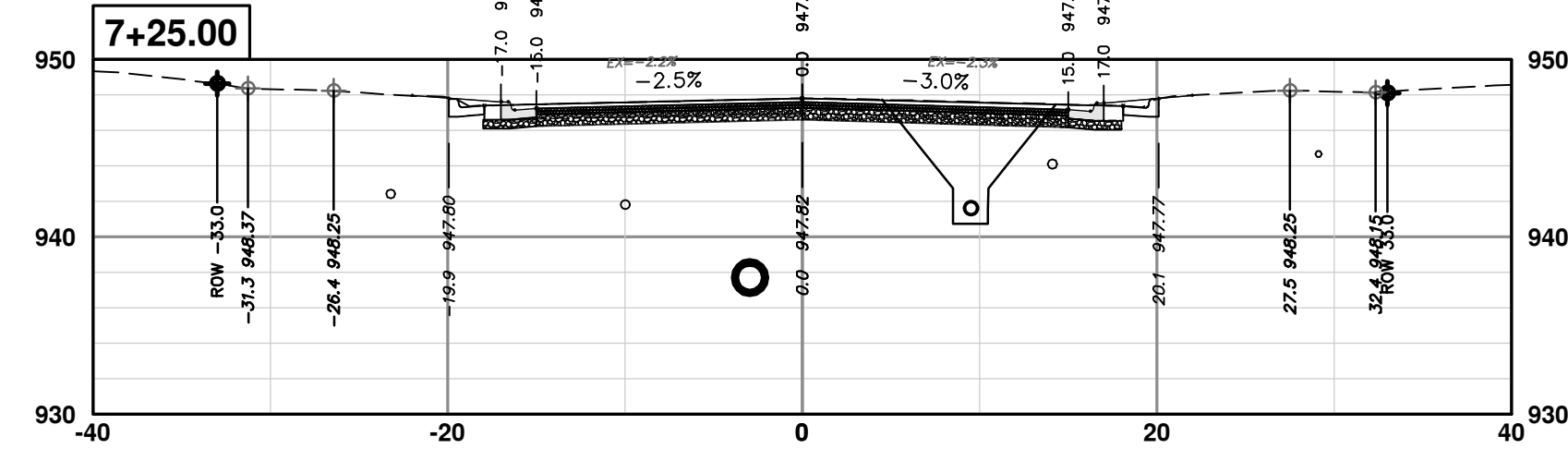
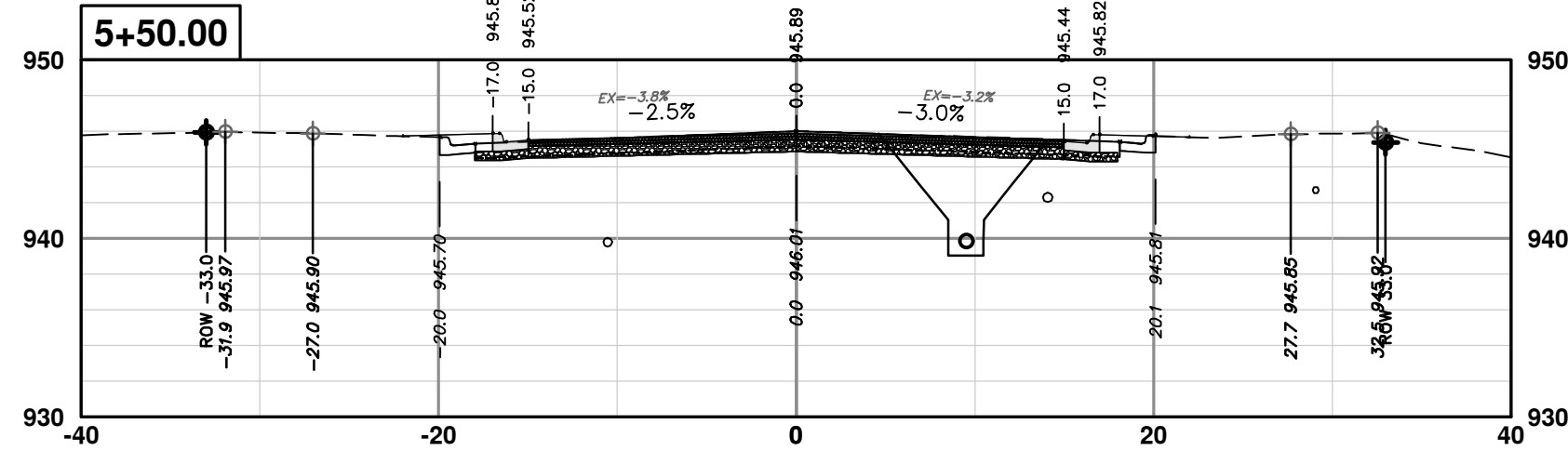
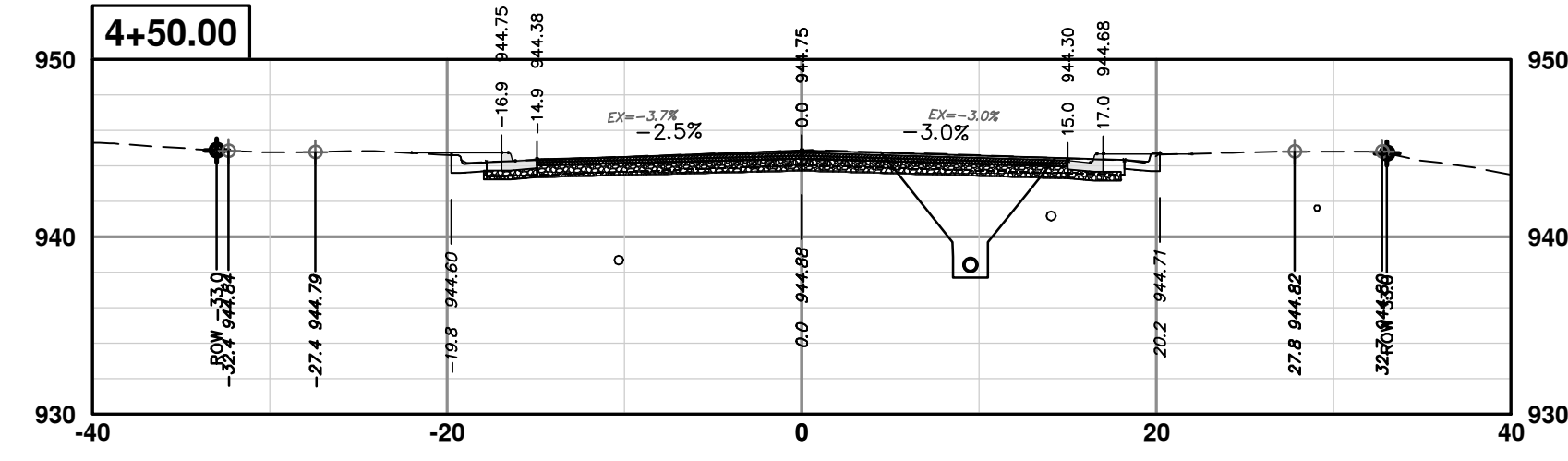
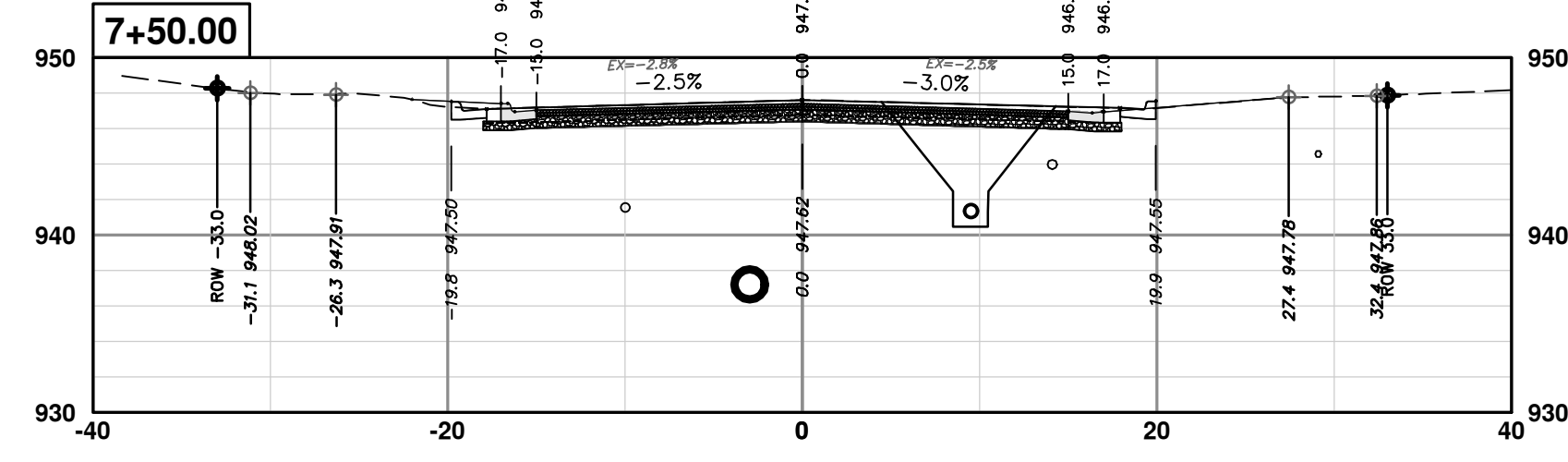
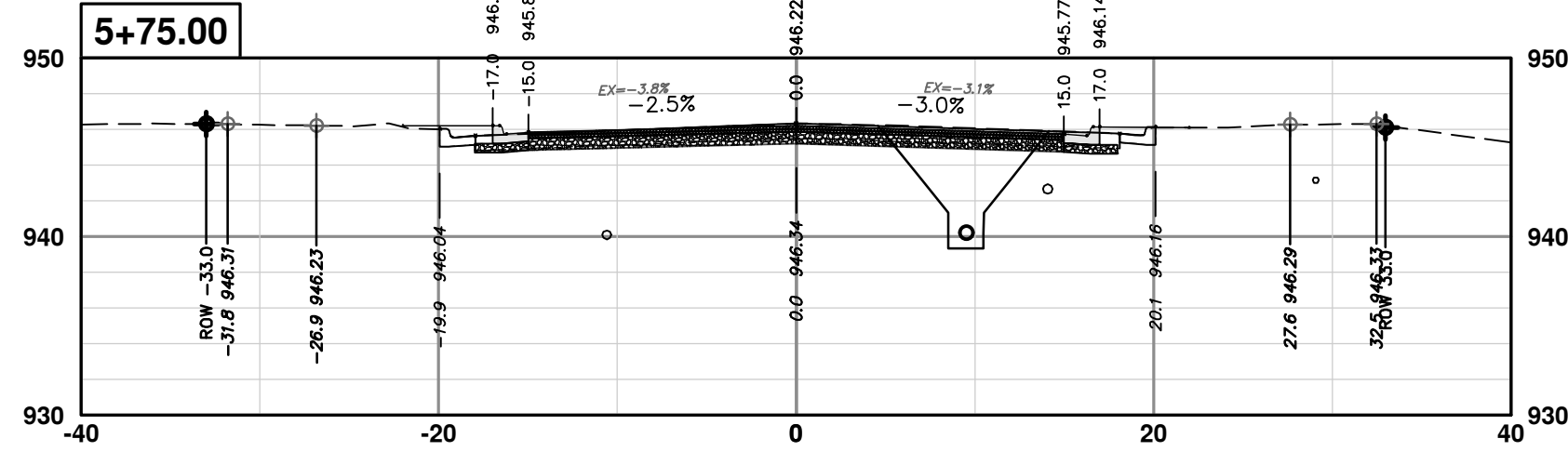
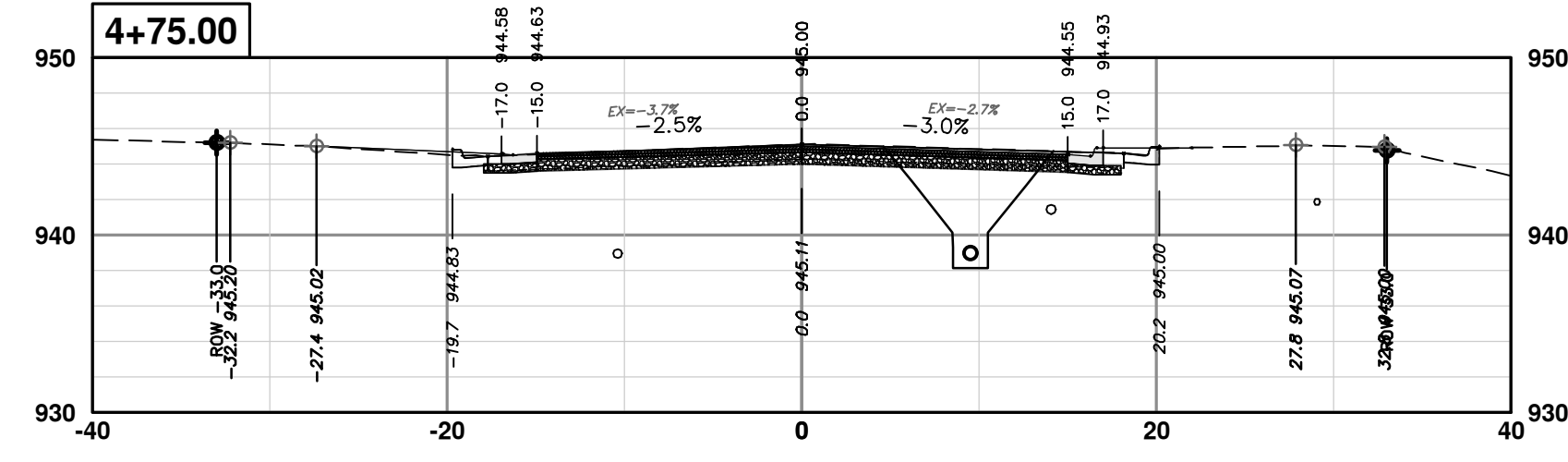
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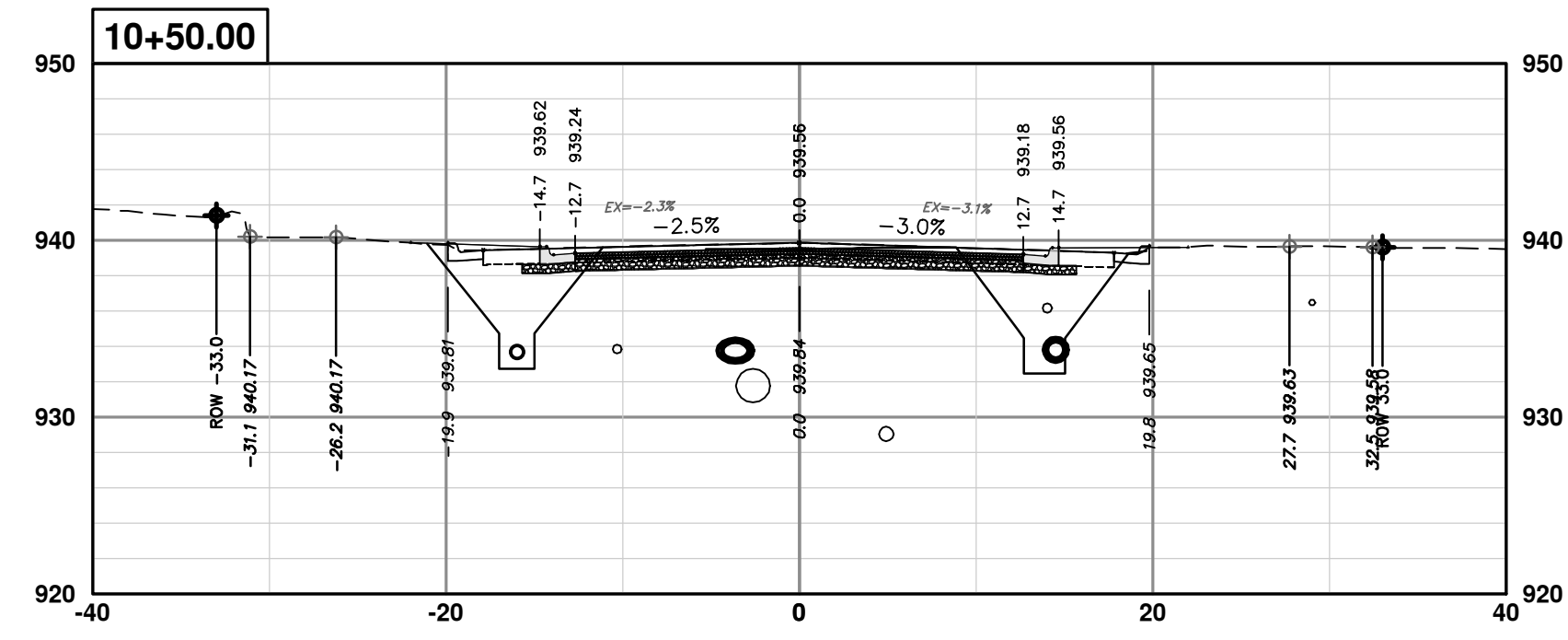
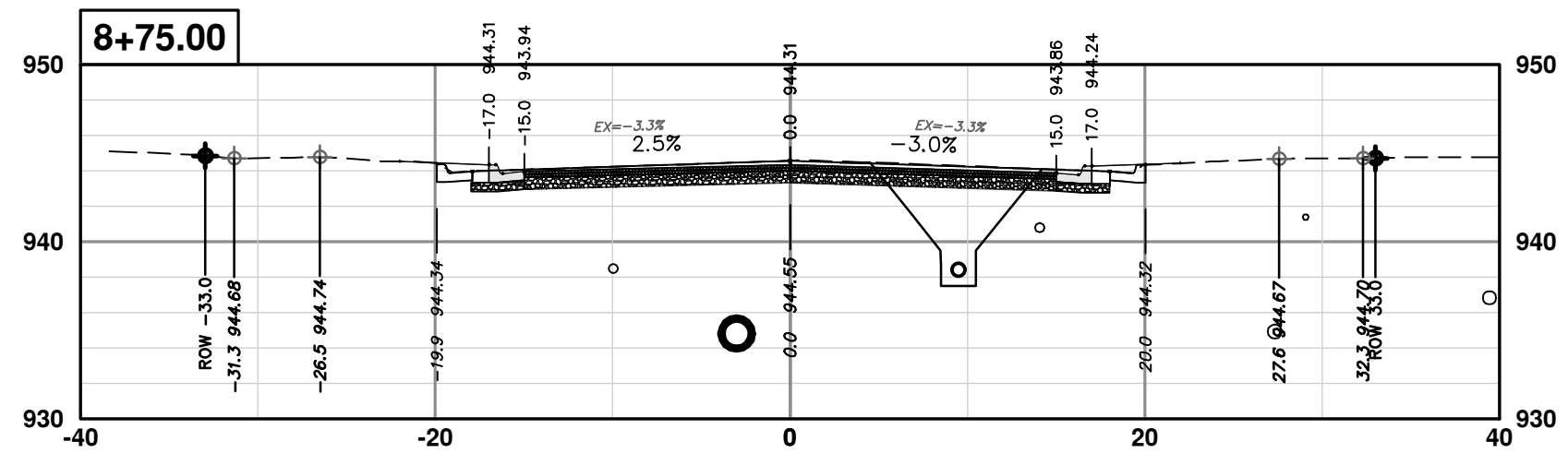
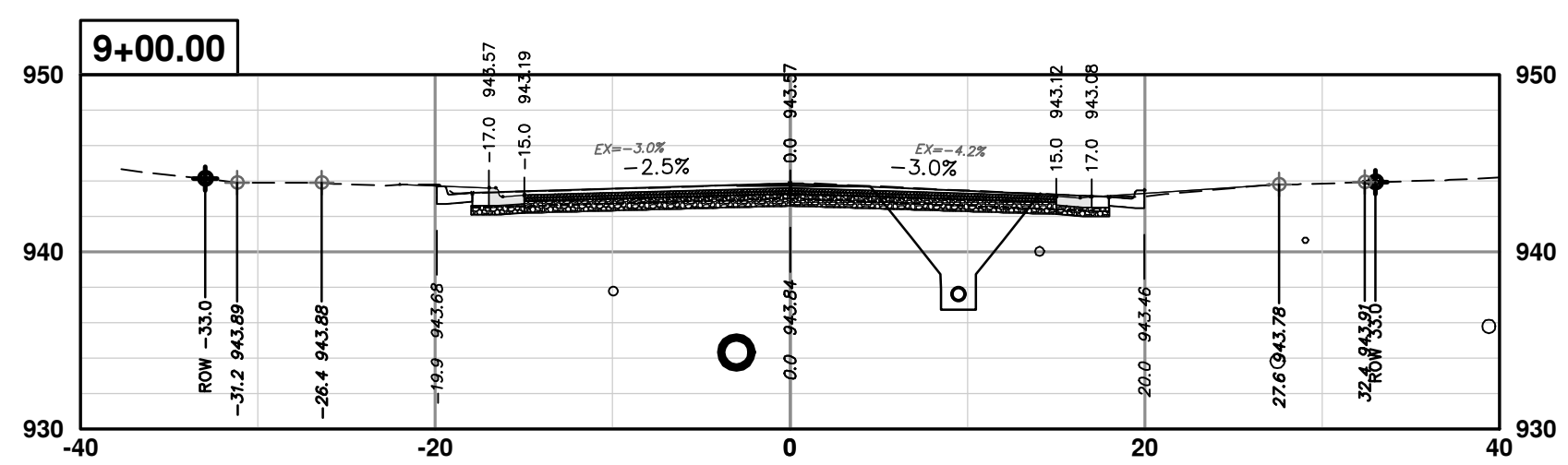
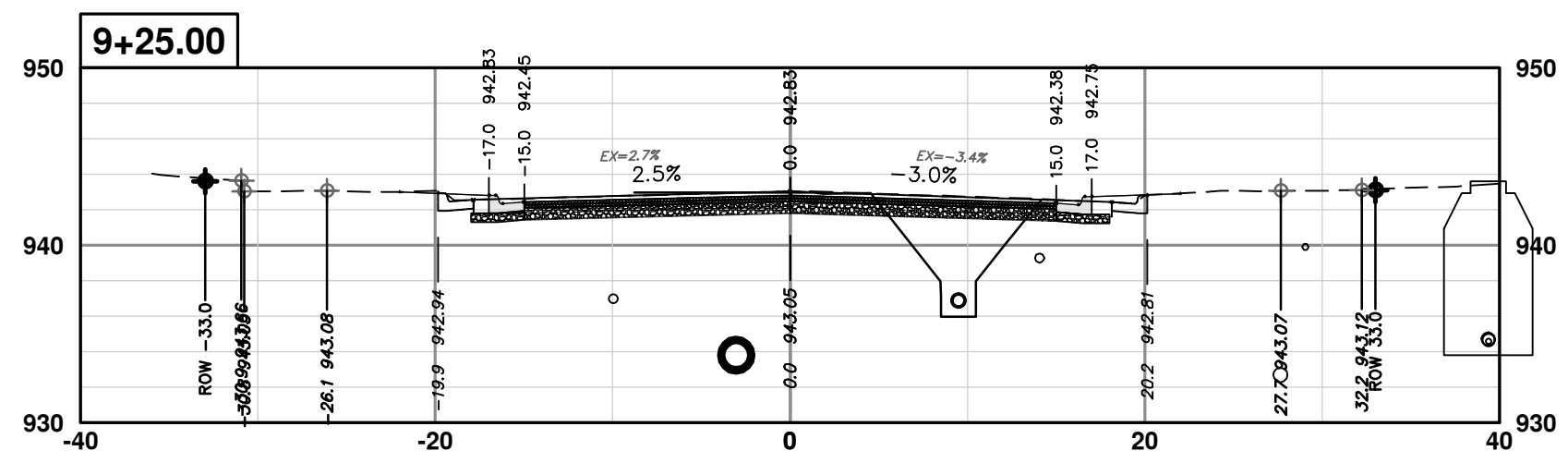
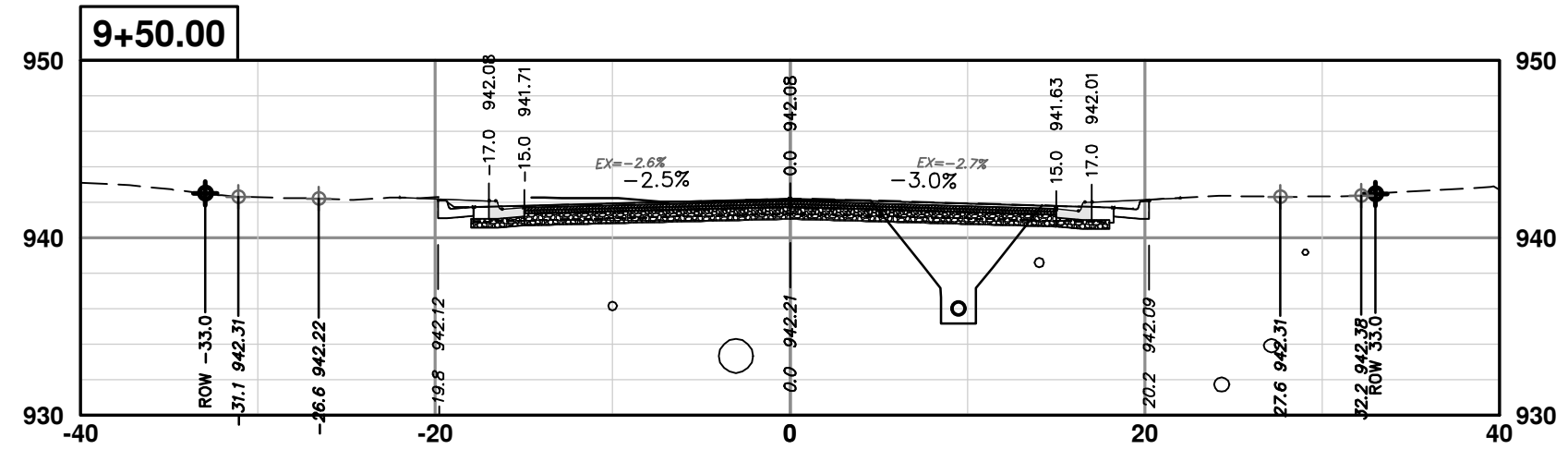
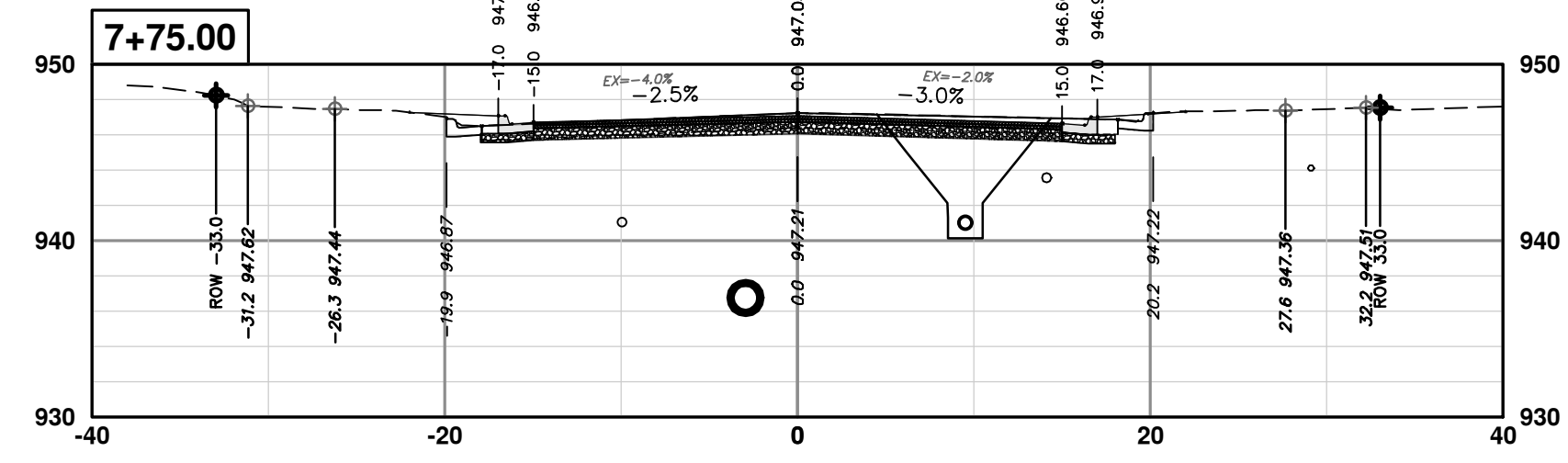
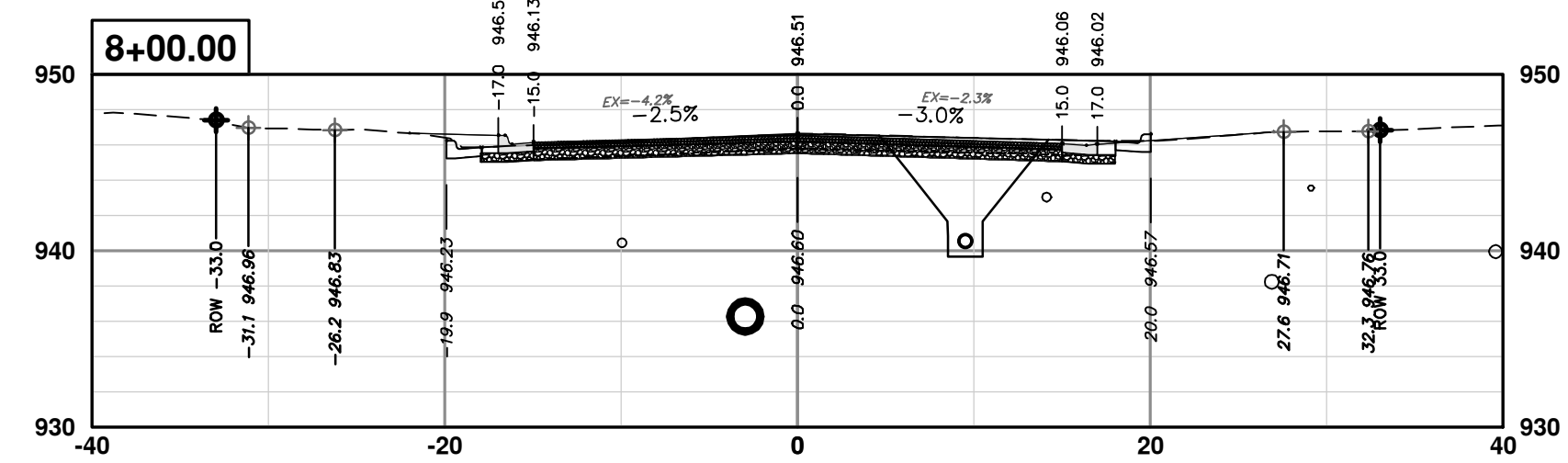
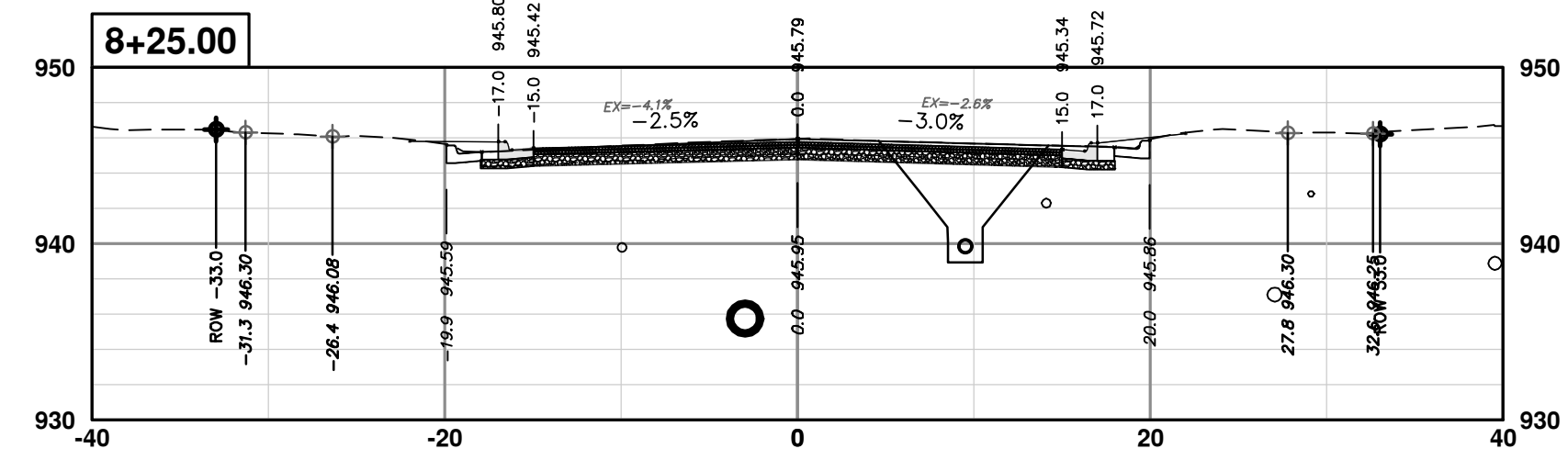
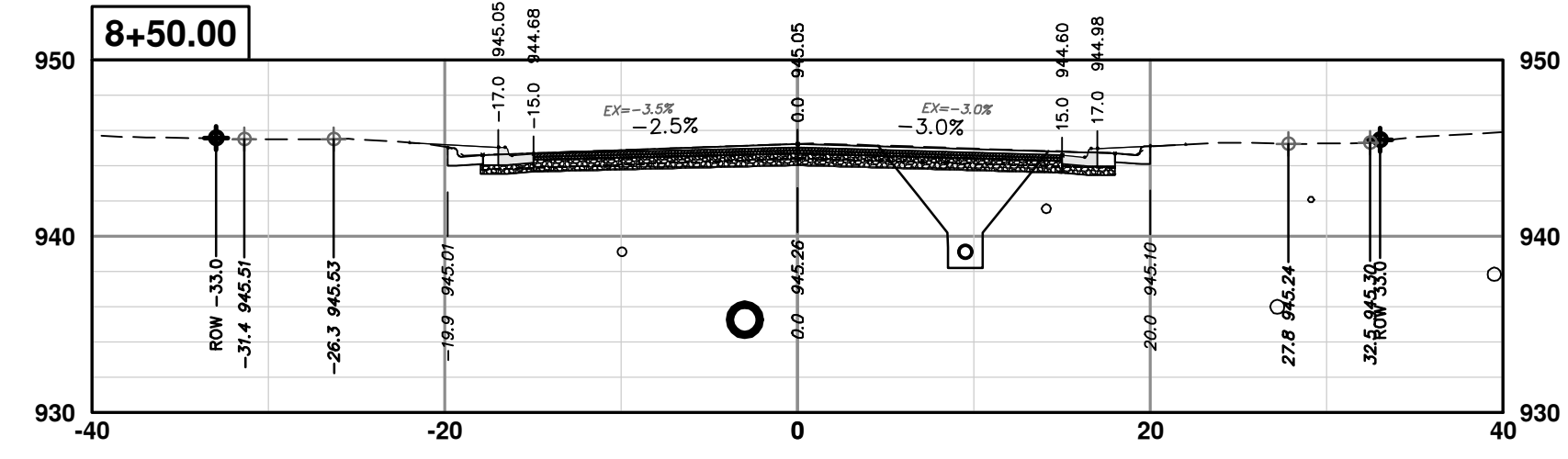
REV.	DATE	DRAWN	CHECKED
01	2-14-24	A2D	TA
00	1-30-24	A2D	TA

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CROSS-SECTIONS - GREENVIEW DRIVE NORTH  
STA. 4+00 - STA. 7+50

SCALE PLAN: 1" = 10'  
PROFILE: 1" = 10'  
DRAWING NO. 2020031-85



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**S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS**  
 CROSS-SECTIONS - GREENVIEW DRIVE NORTH  
 STA. 7+75 - STA. 10+50

SCALE PLAN: 1" = 10'  
 PROFILE: 1" = 10'  
 DRAWING No. 2020031-86  
 SHEET No. 86 OF 92

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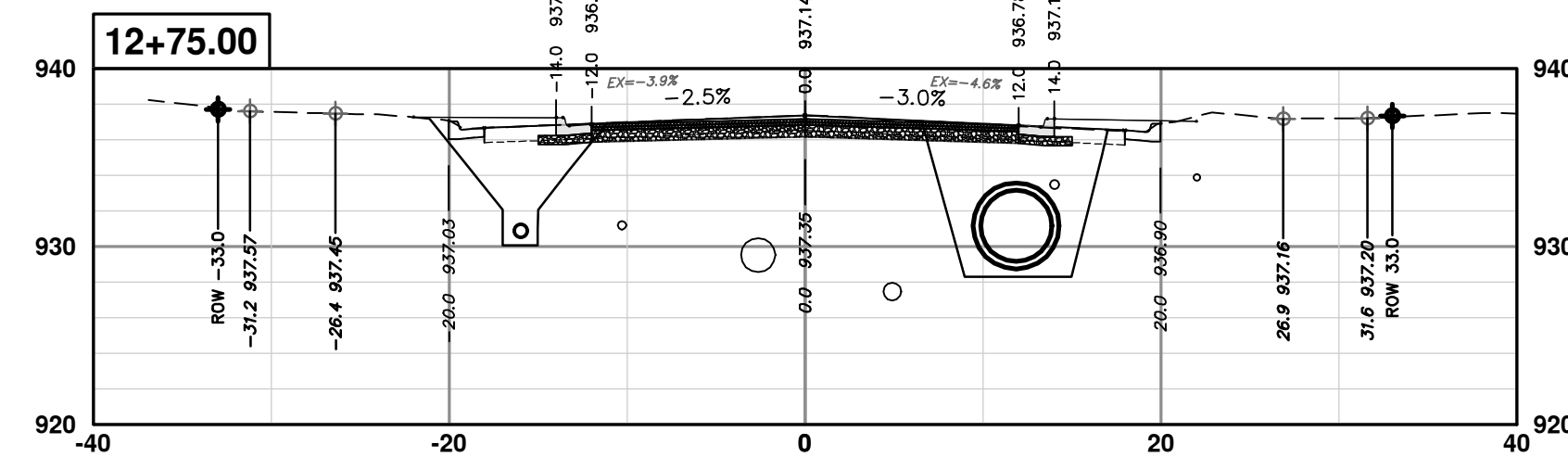
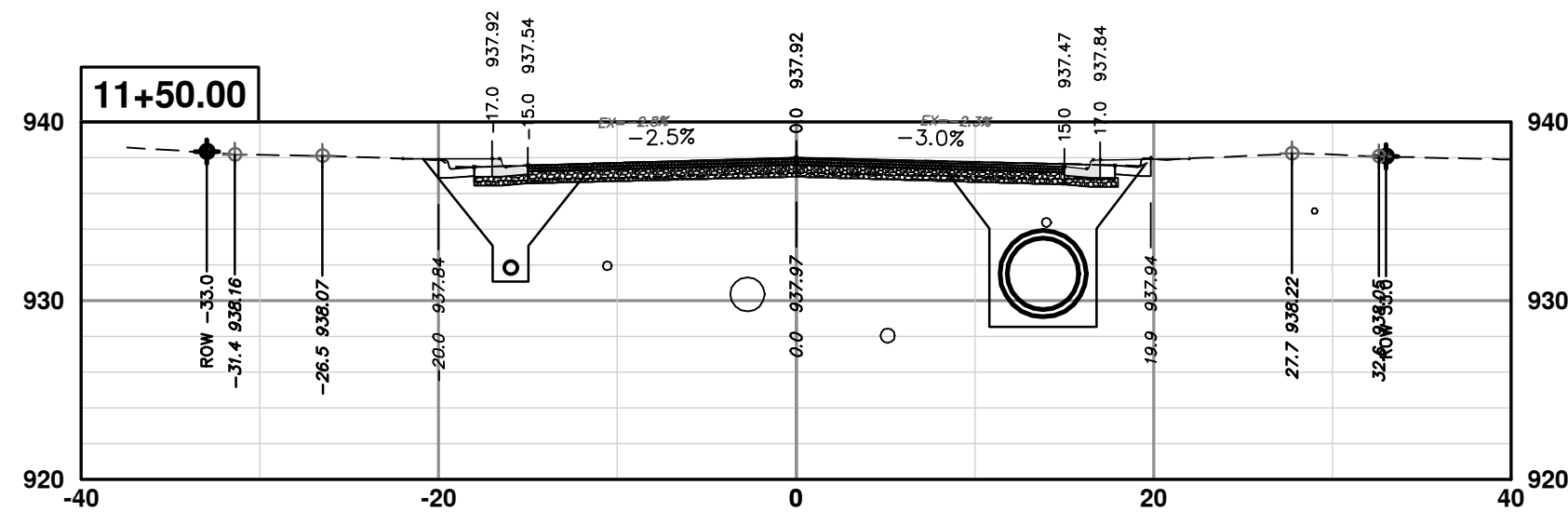
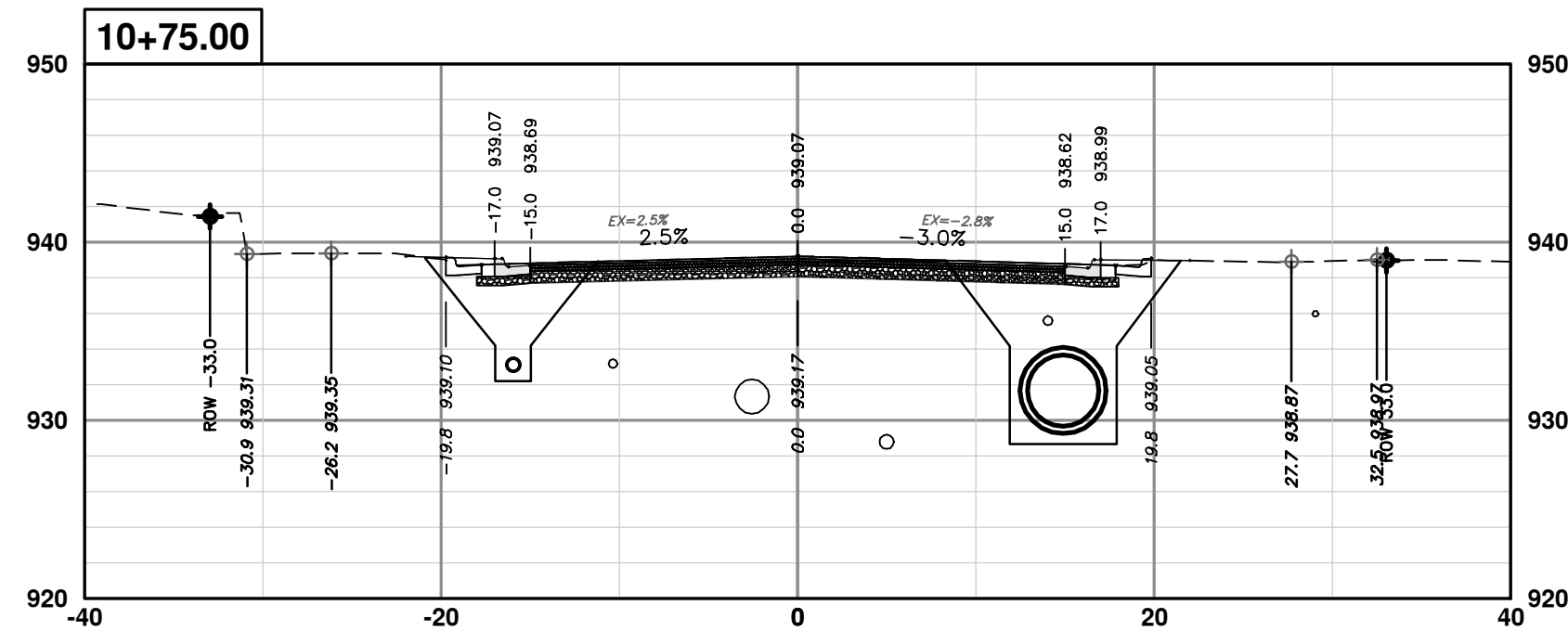
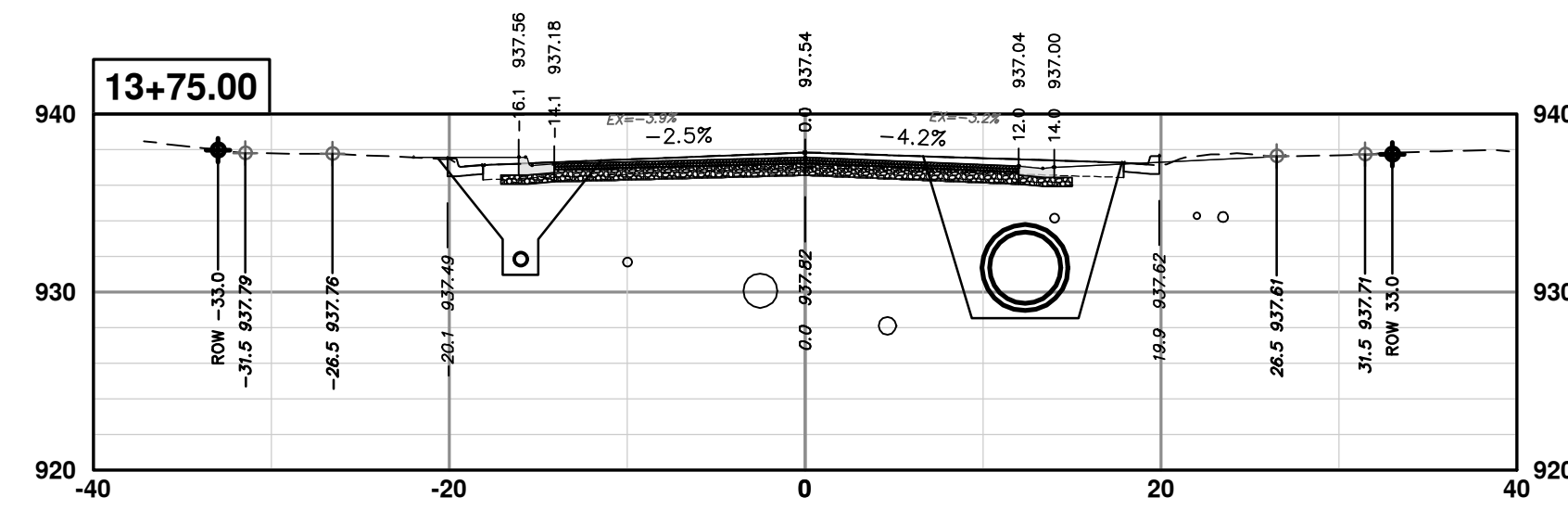
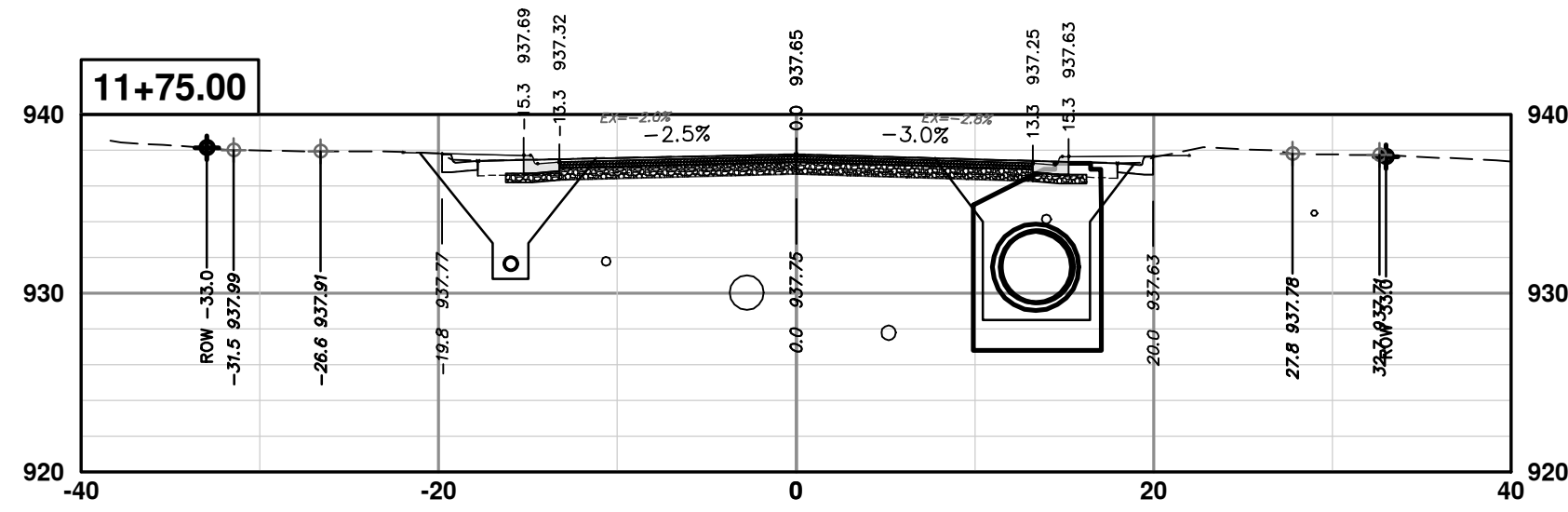
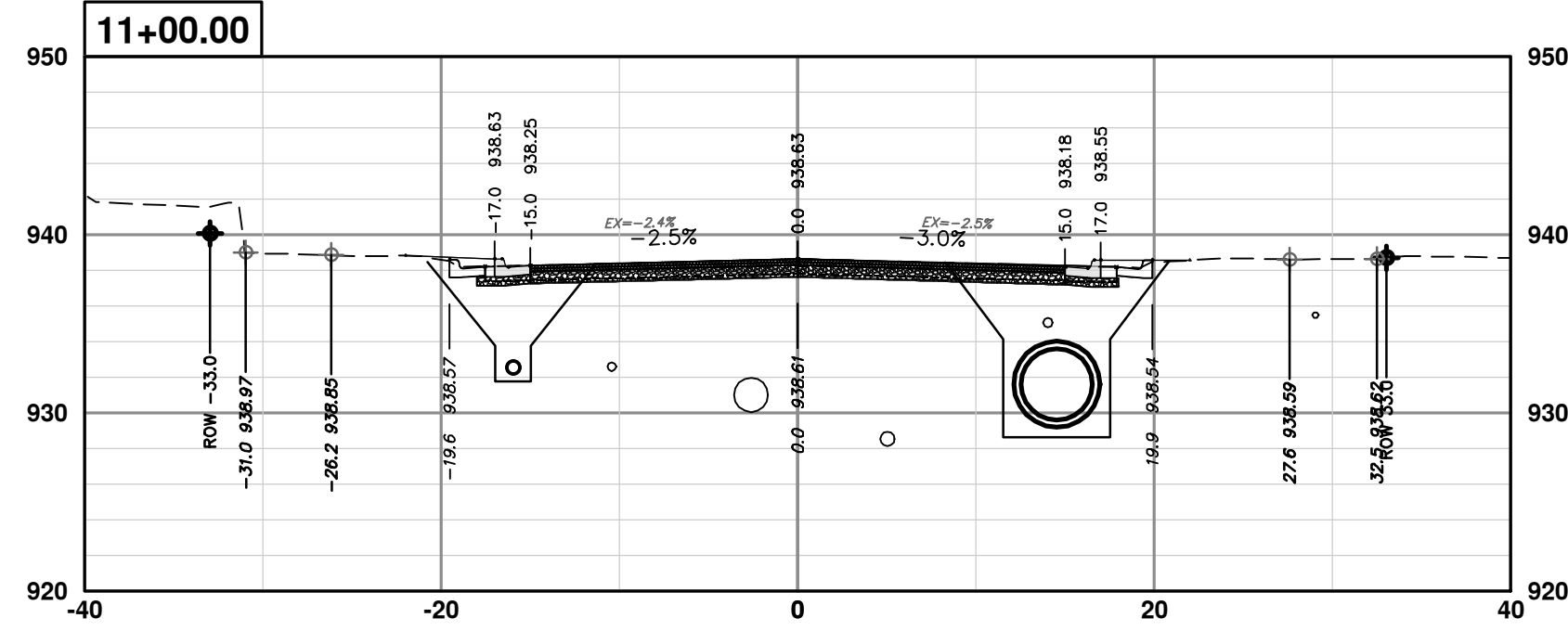
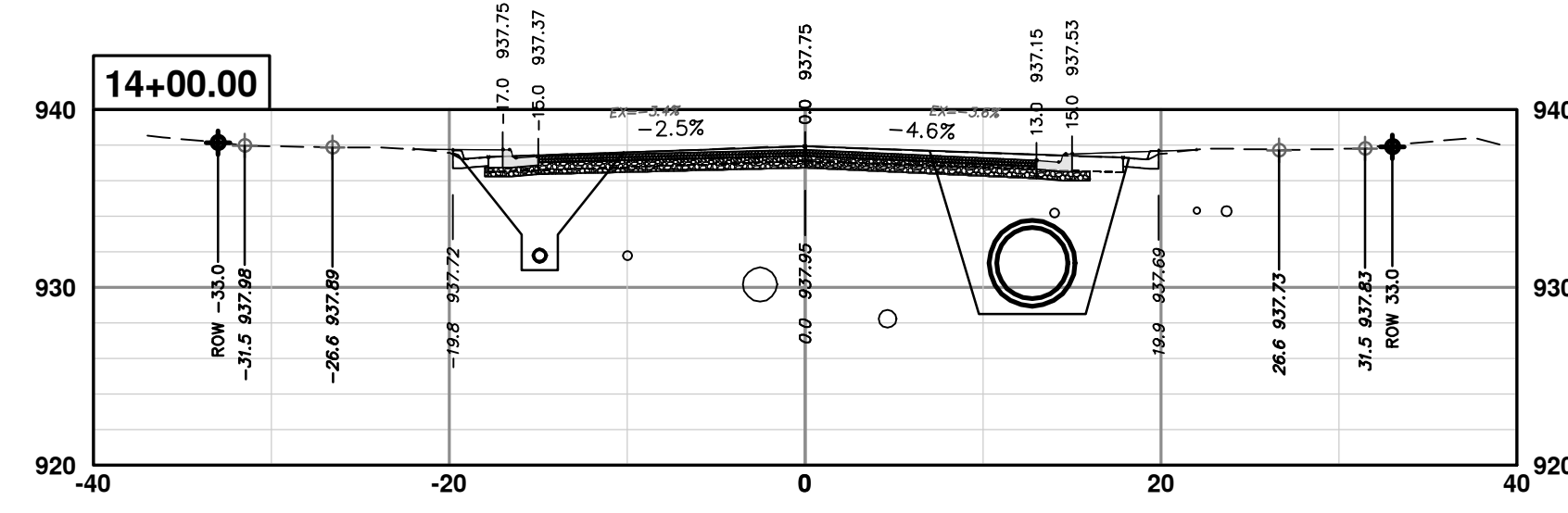
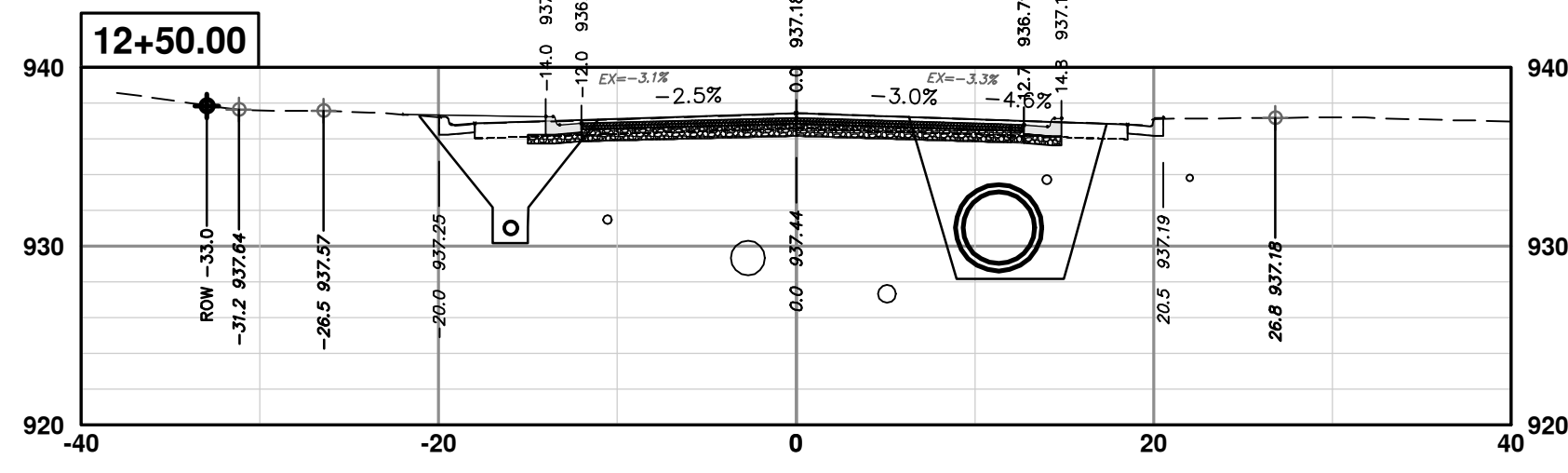
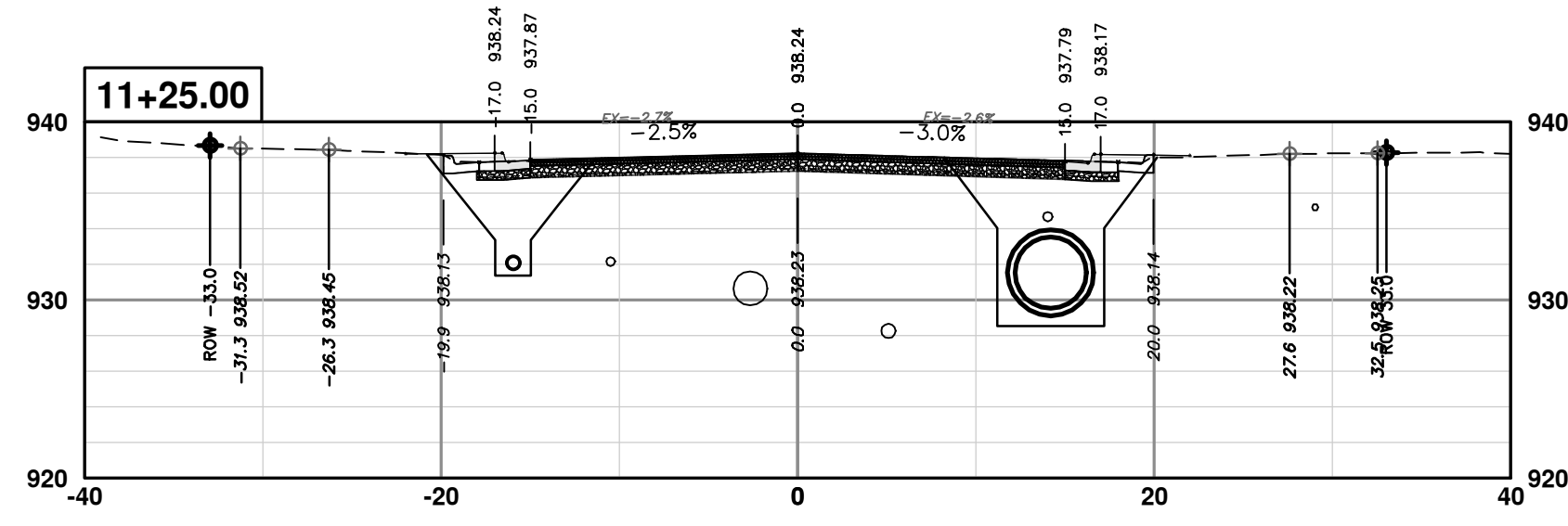


REV.	DATE	DESCRIPTION
01	2-14-24	ADDENDUM 1
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		DRAWN
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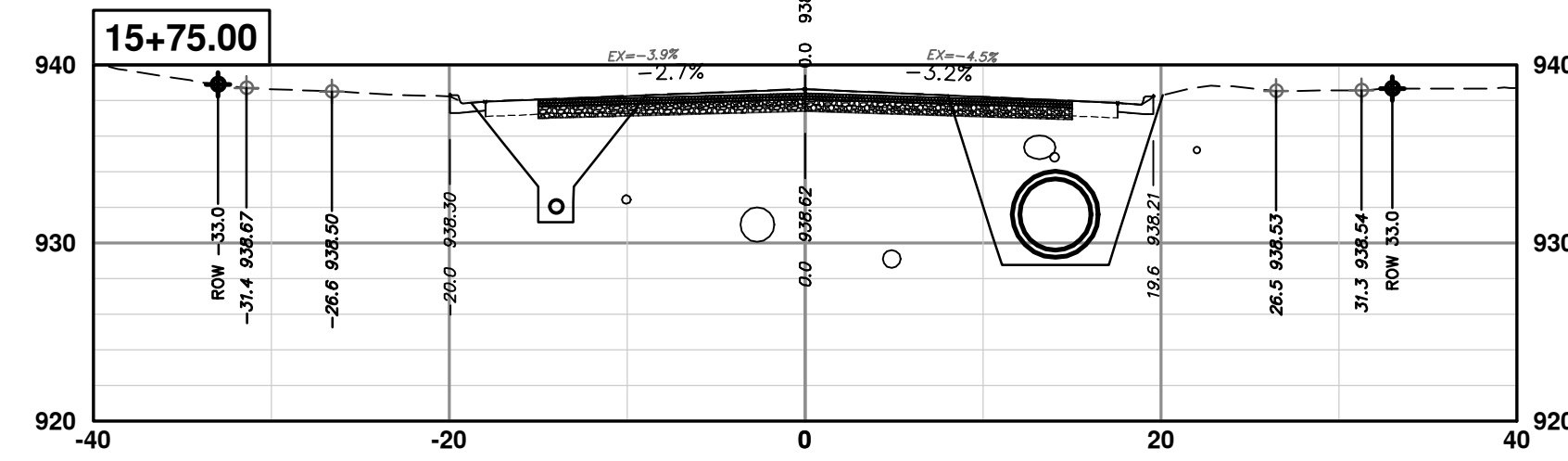
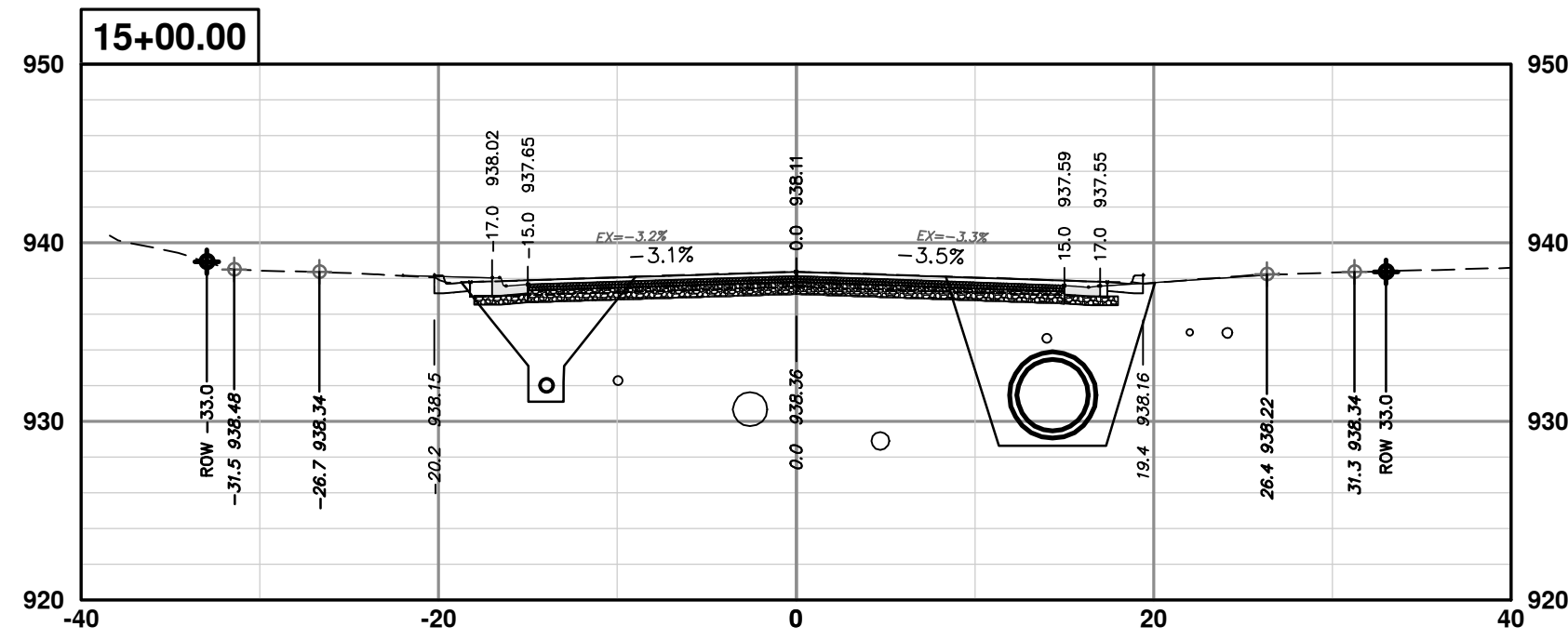
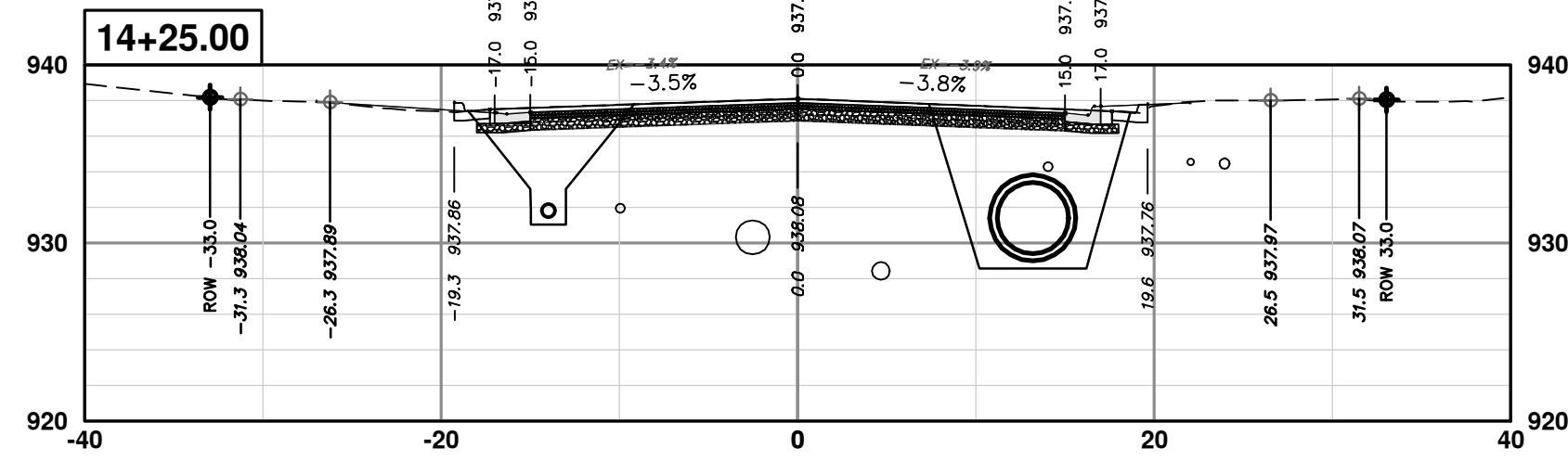
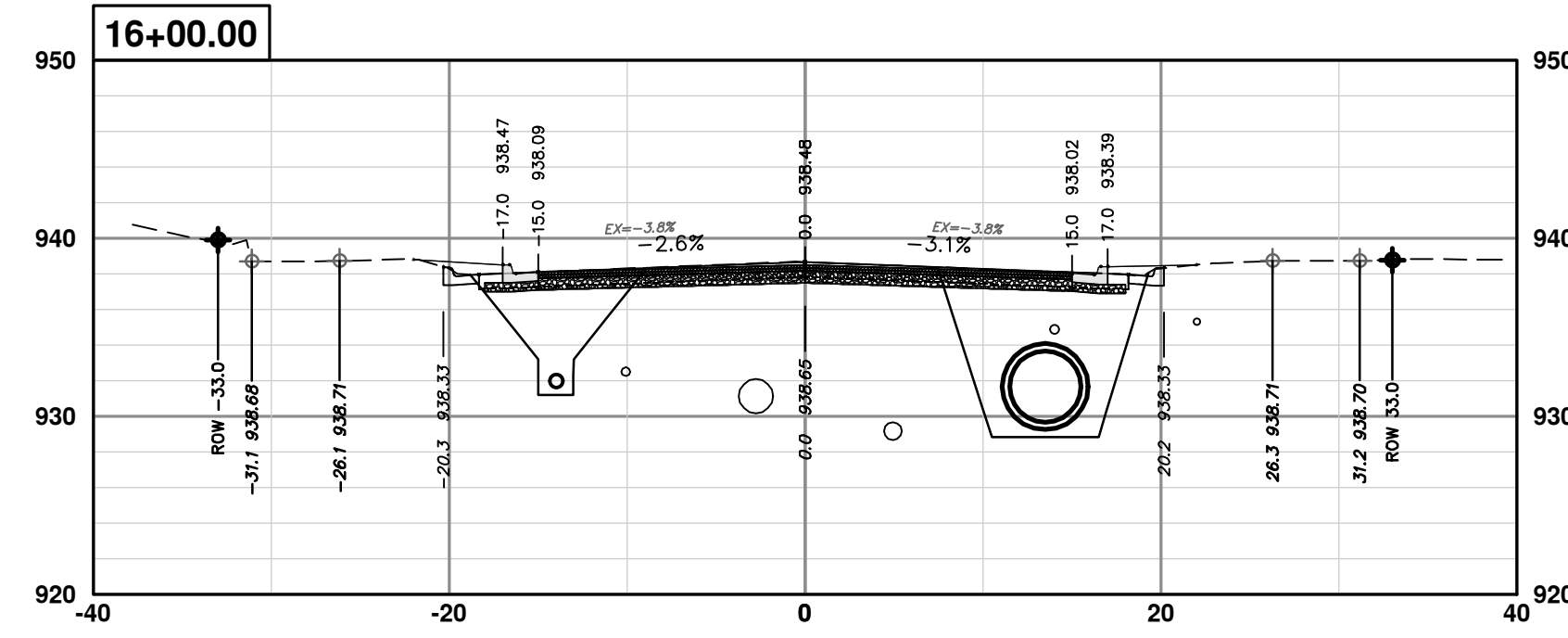
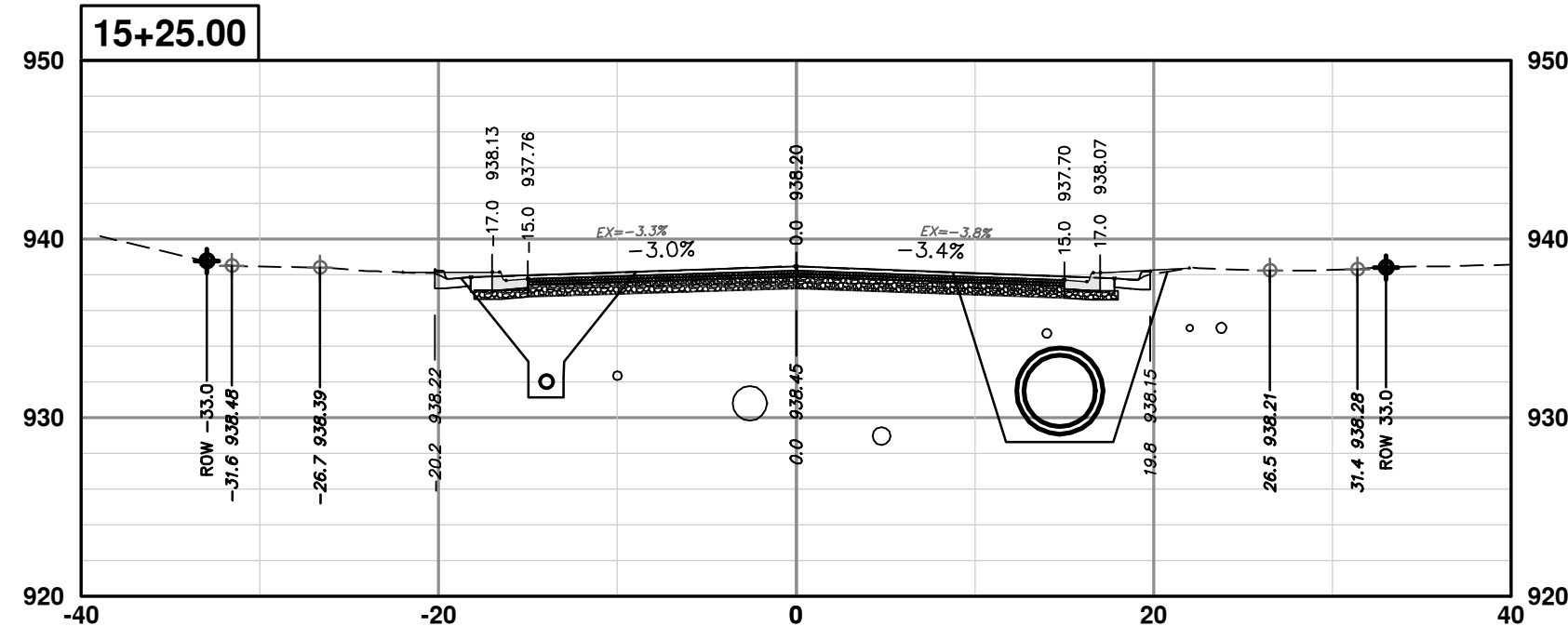
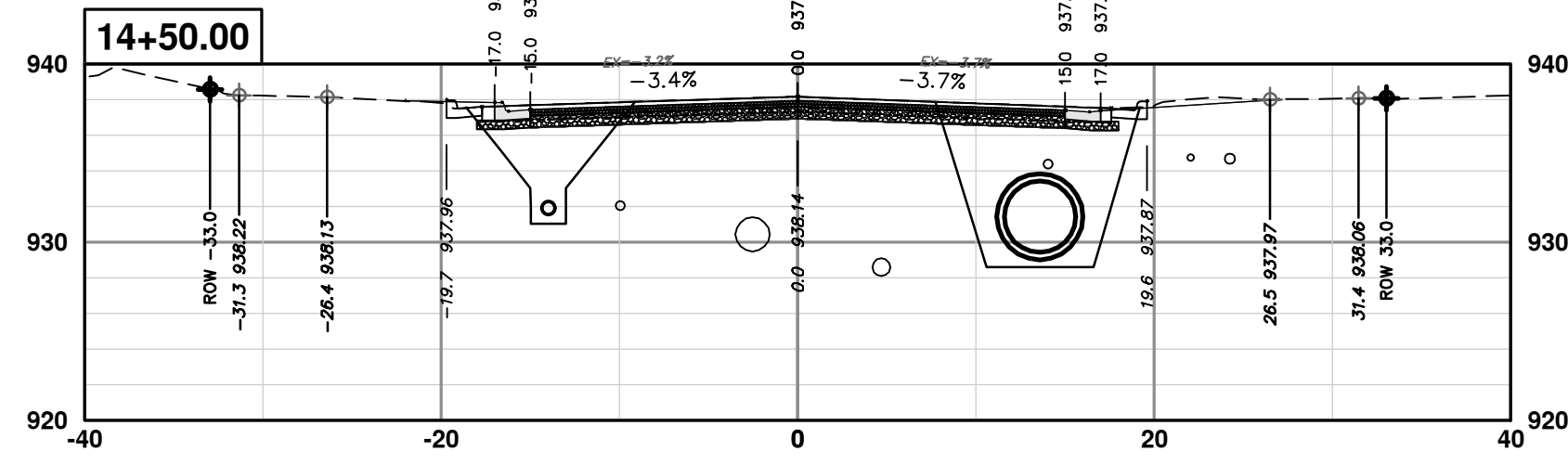
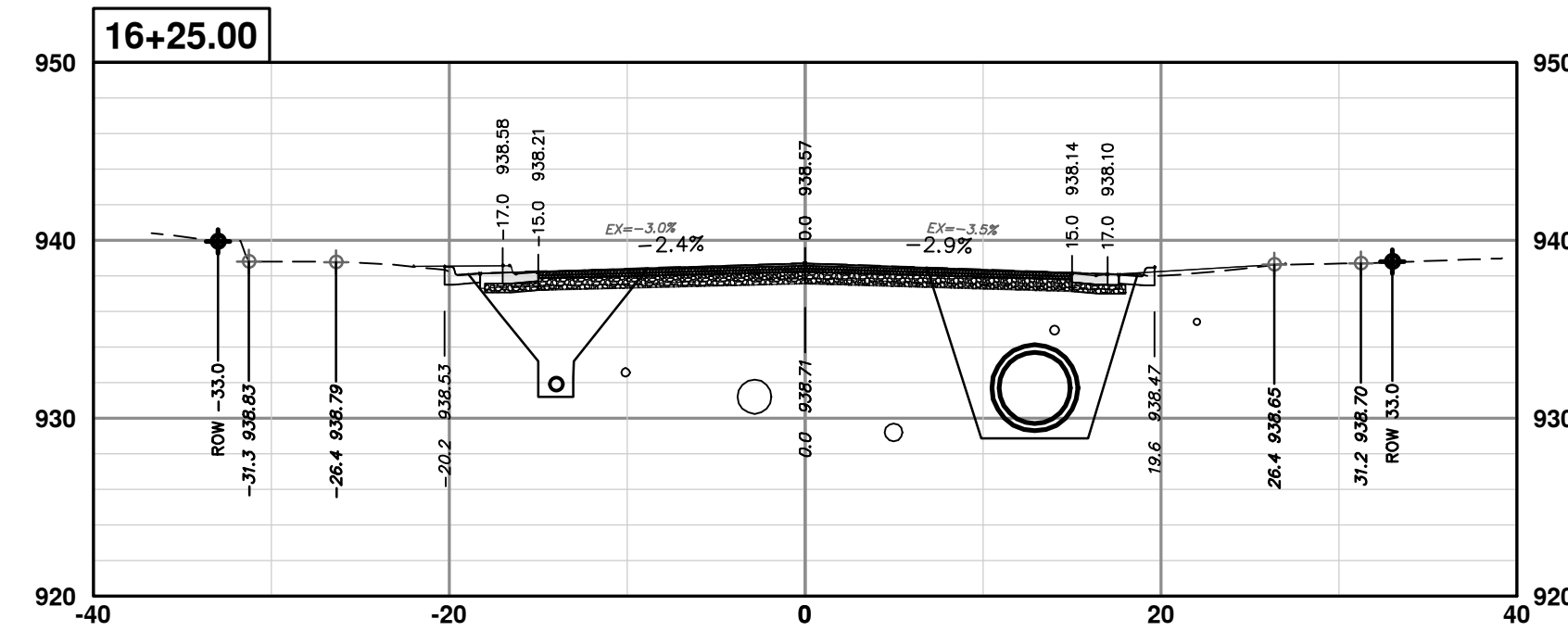
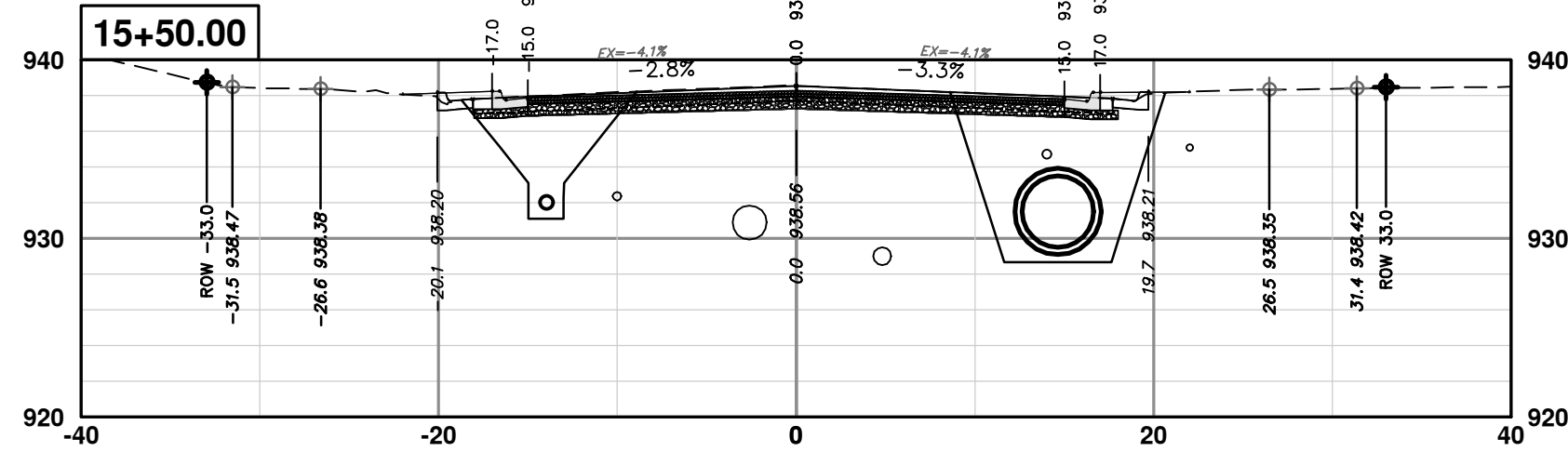
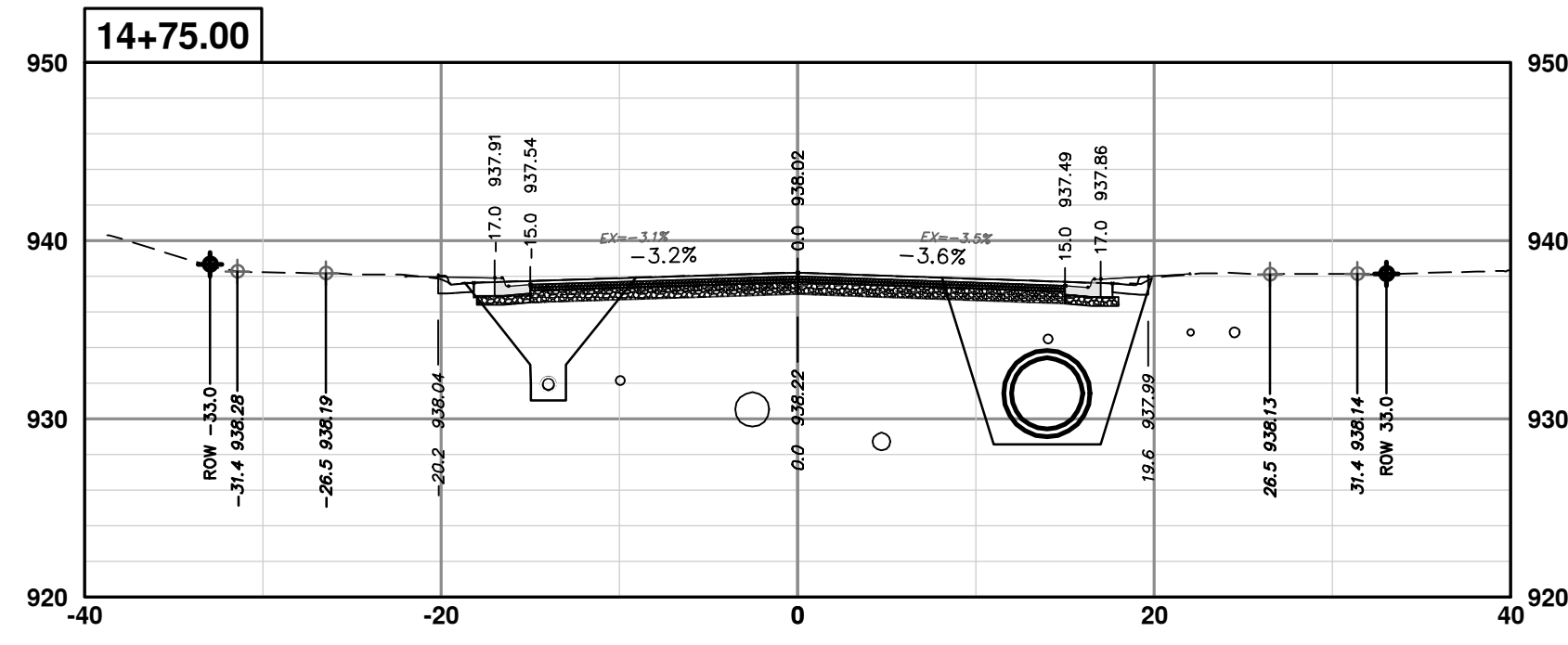


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 CROSS-SECTIONS - GREENVIEW DRIVE NORTH  
 STA. 10+75 - STA. 14+00

SCALE PLAN: 1" = 10'  
 PROFILE: 1" = 10'  
 DRAWING No. 2020031-87

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	ADDENDUM 1	2-14-24	A2D	TA
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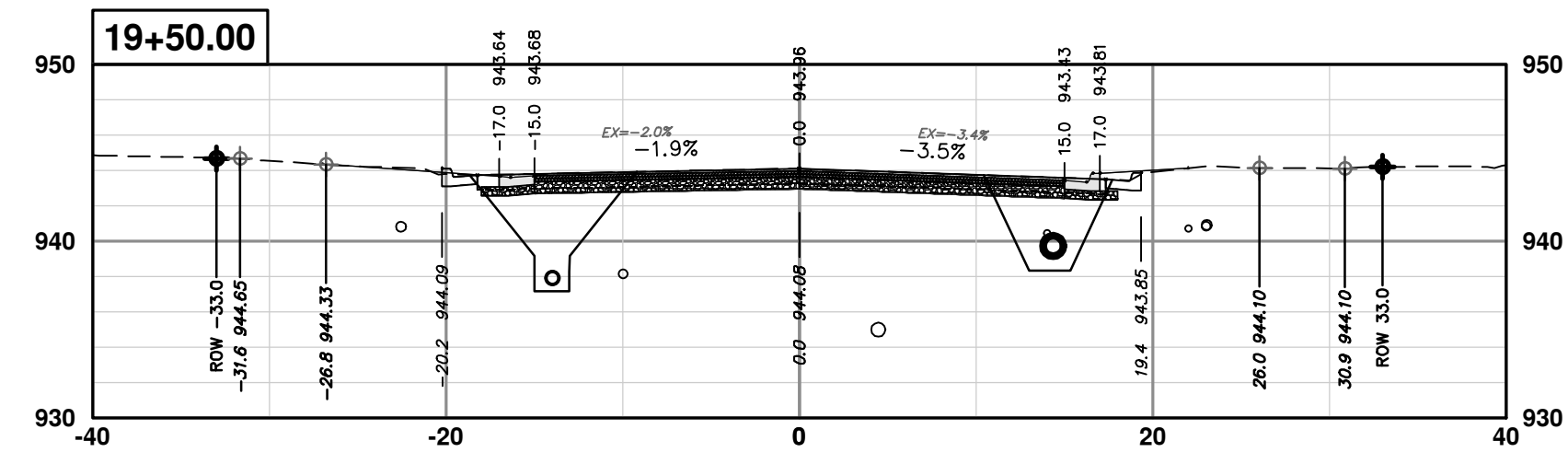
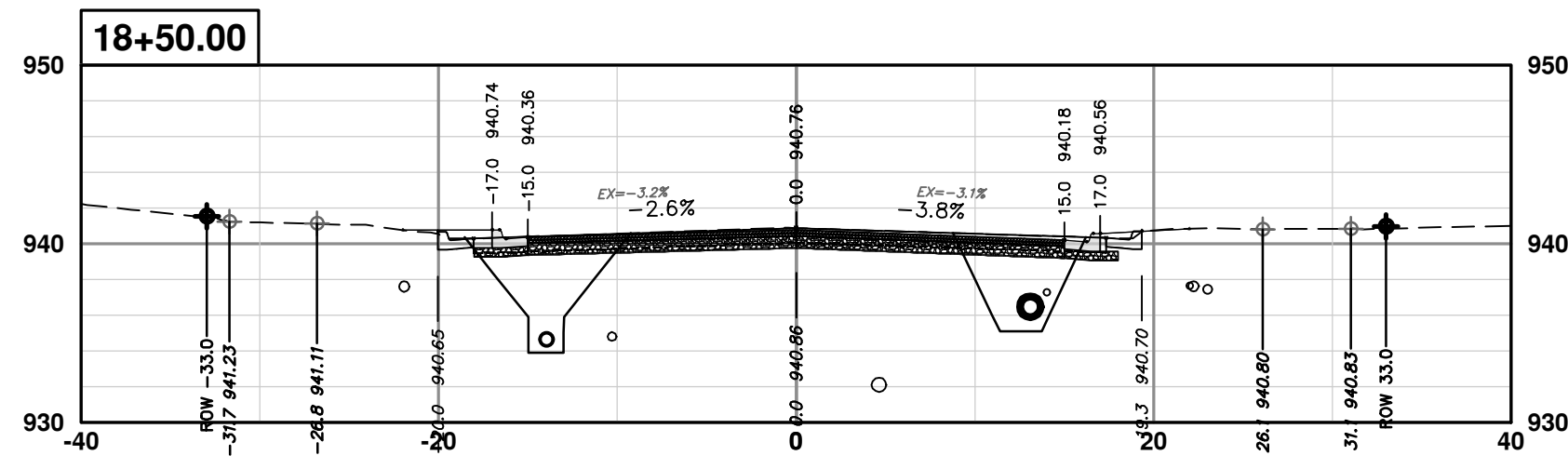
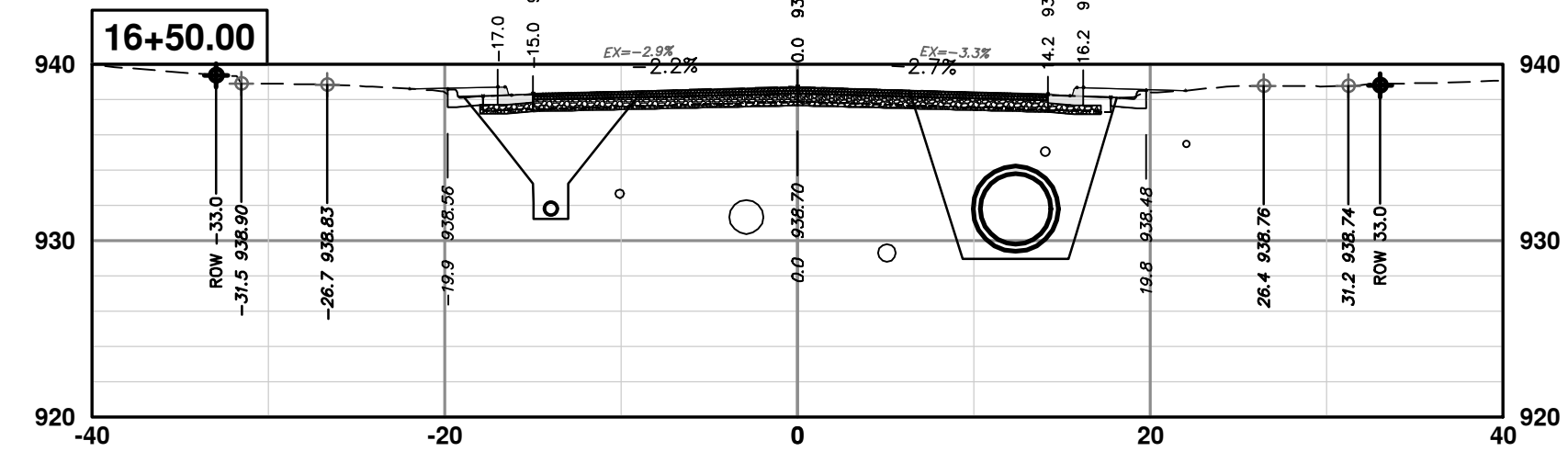
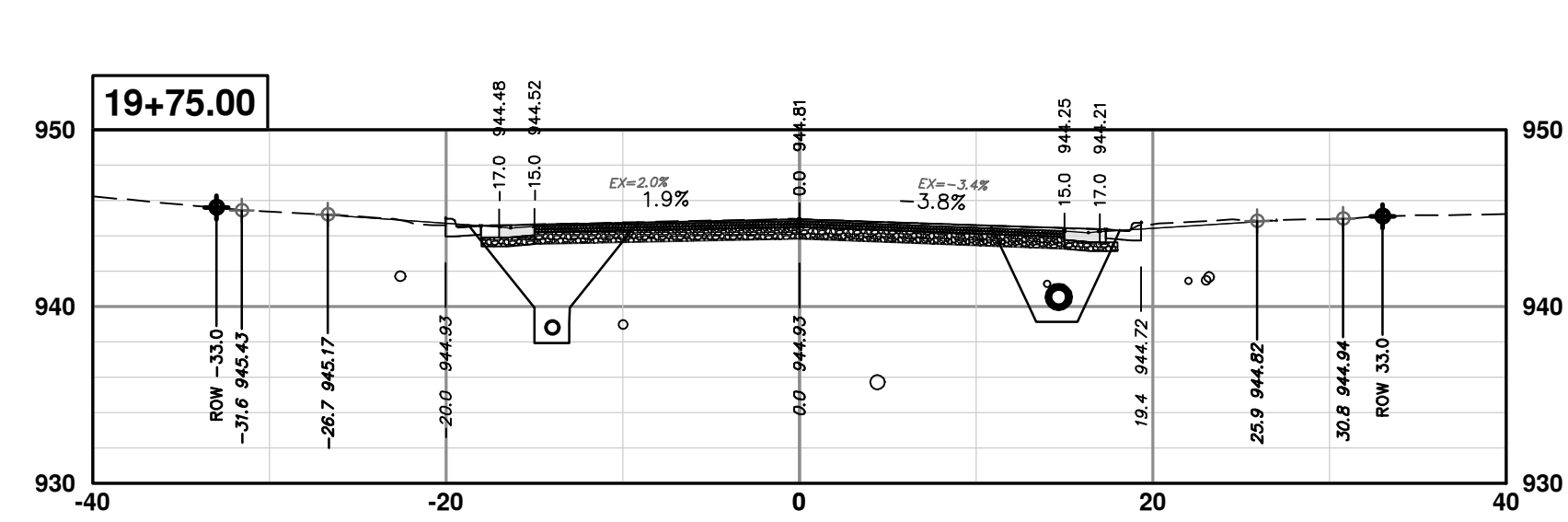
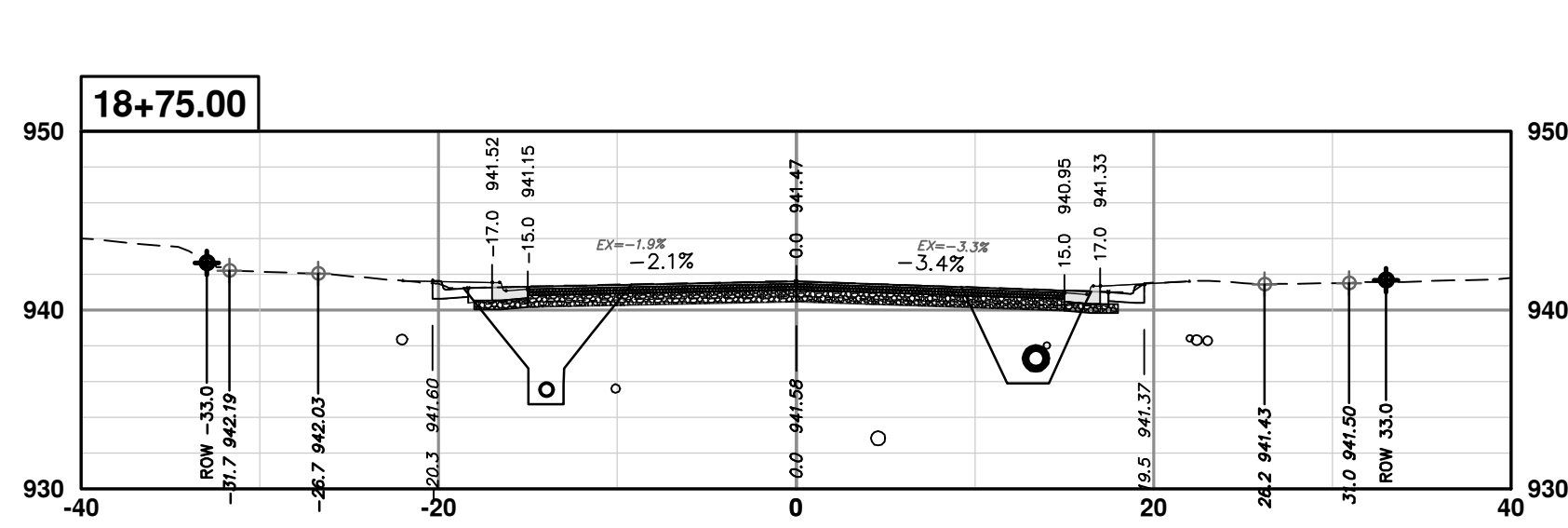
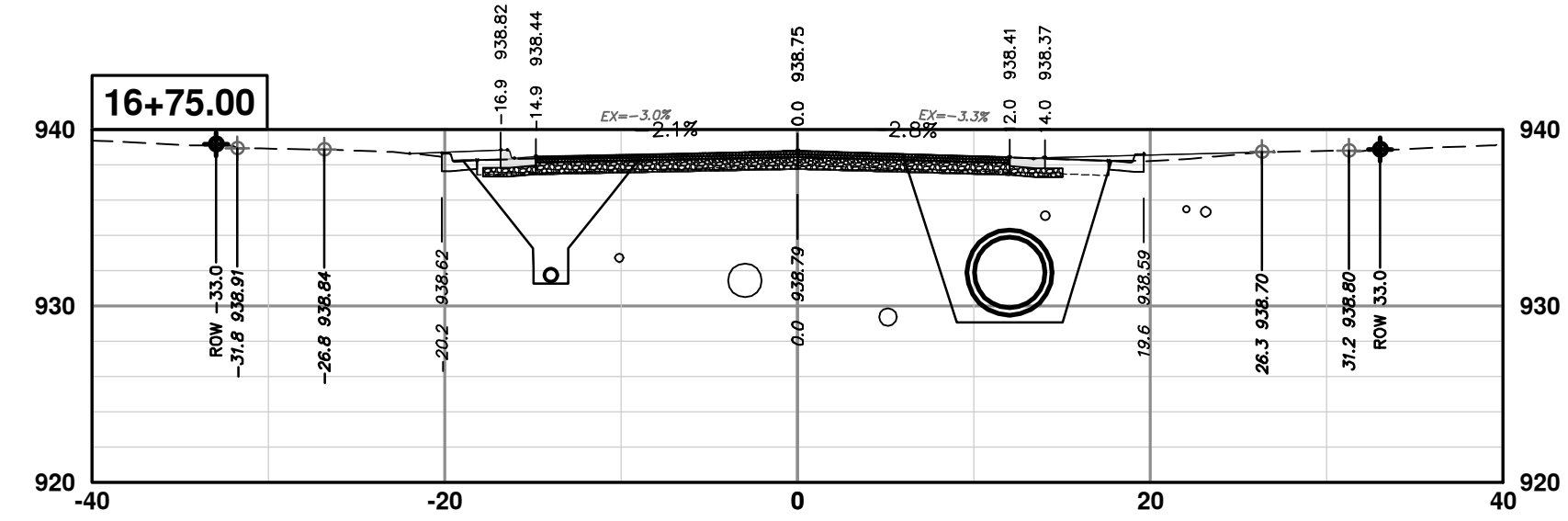
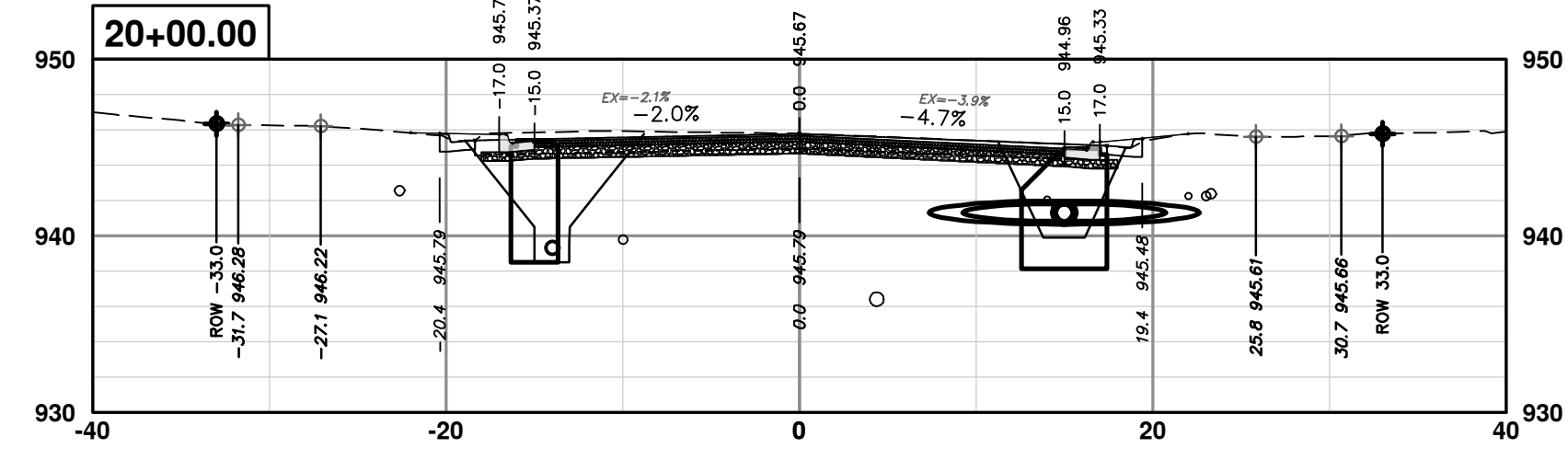
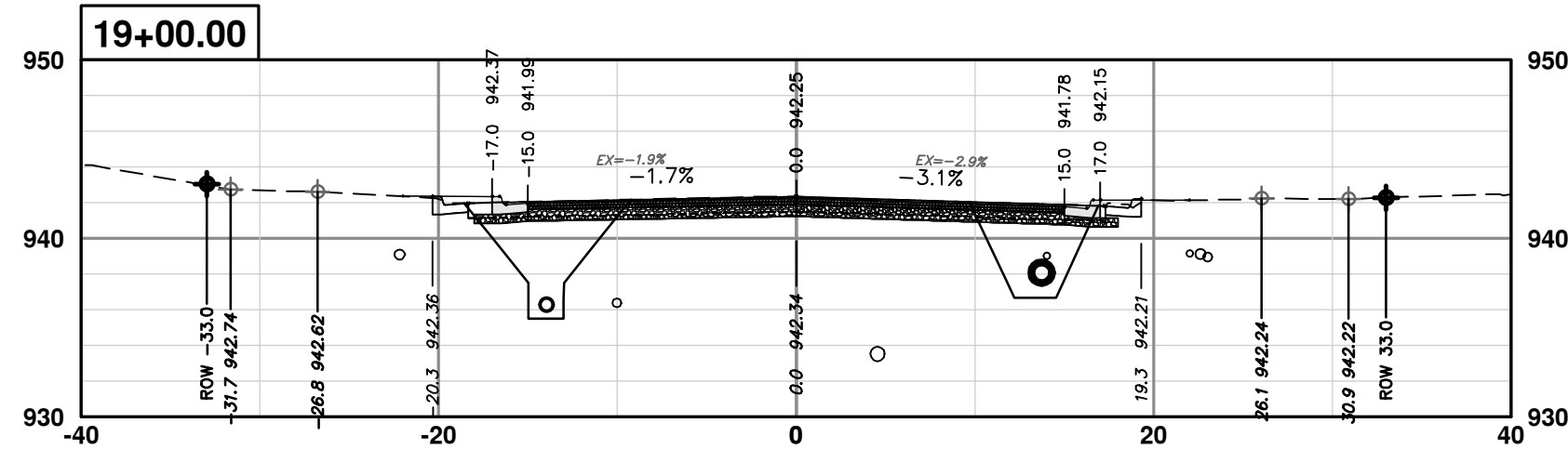
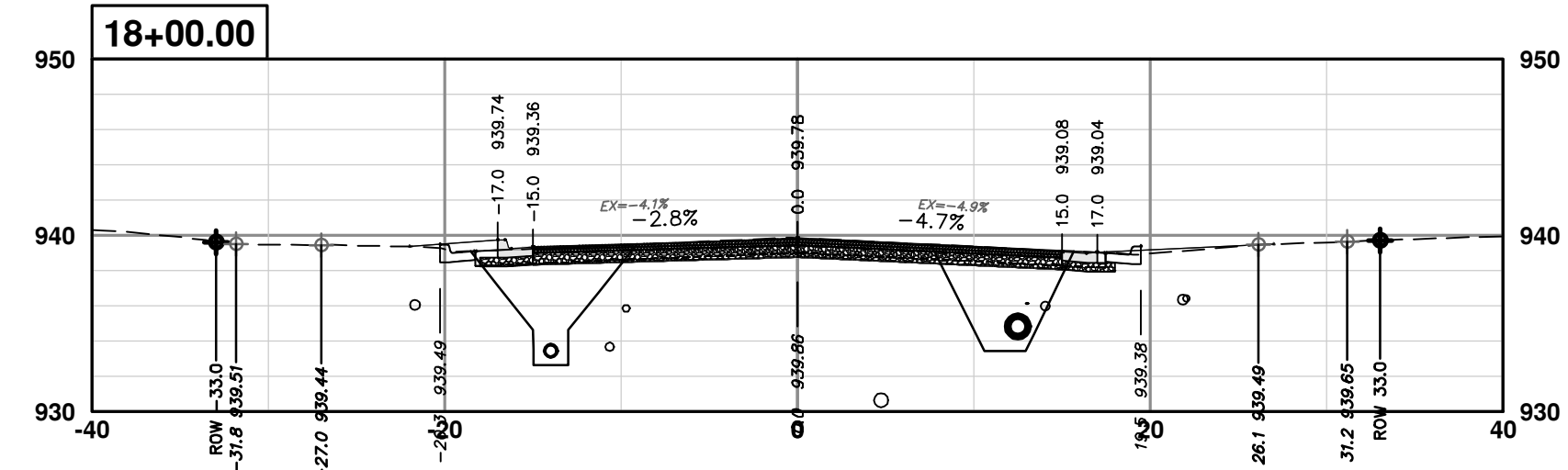
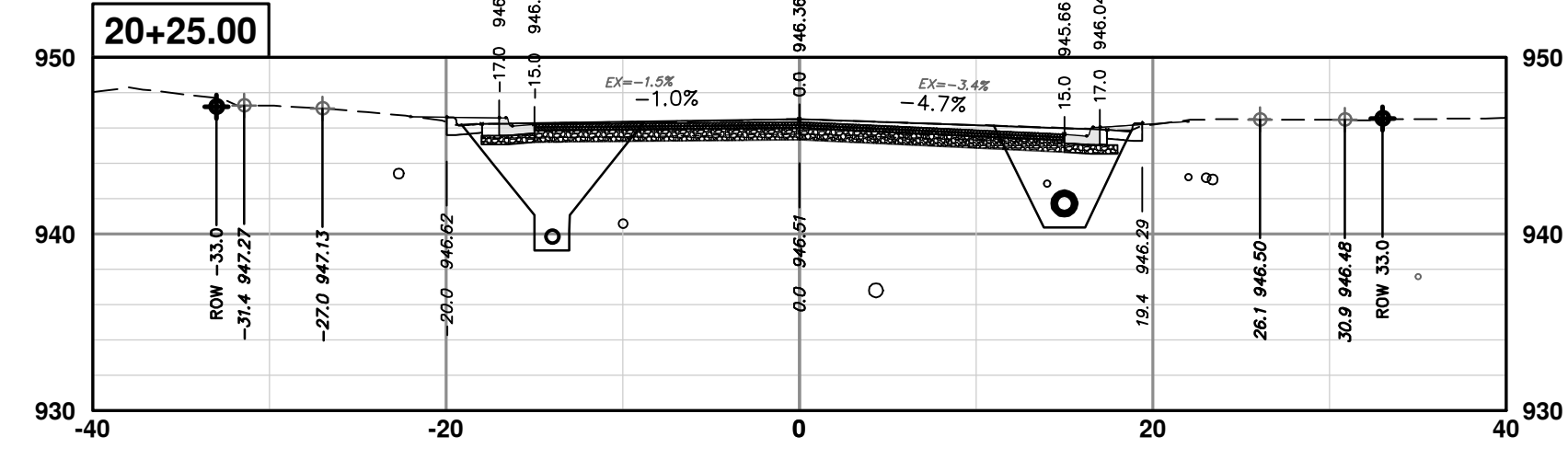
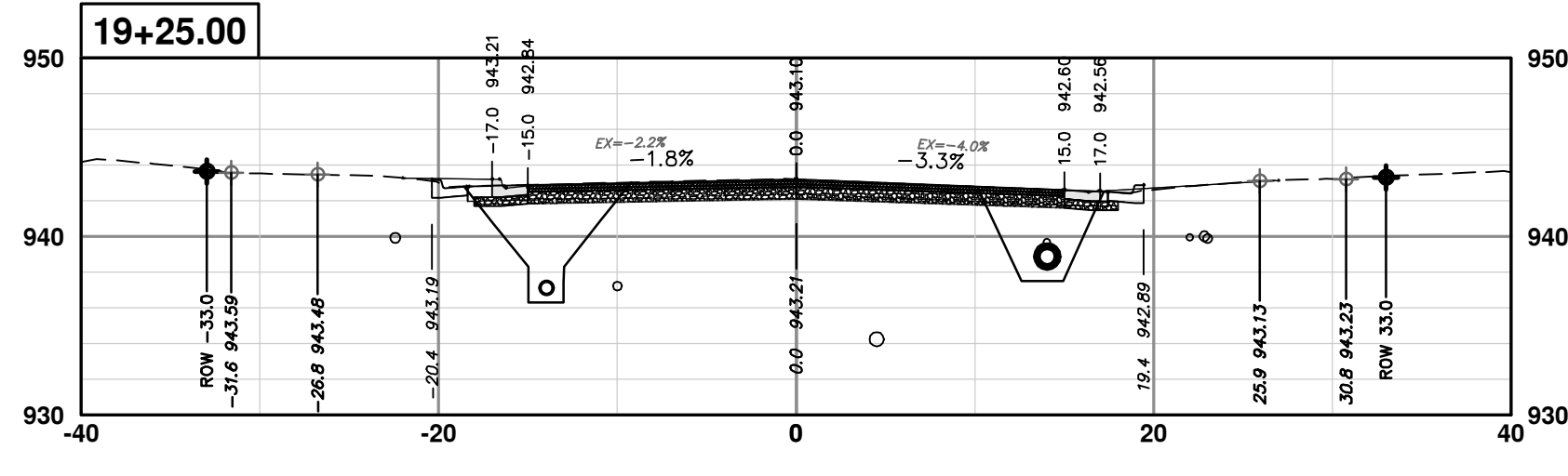
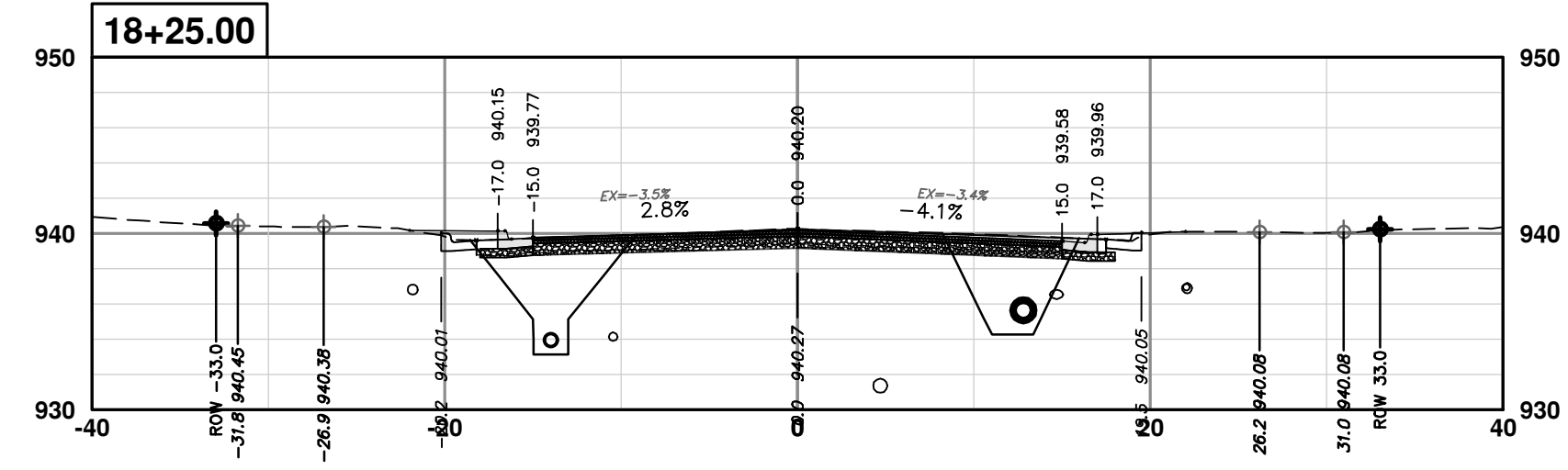
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S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS  
CROSS-SECTIONS - GREENVIEW DRIVE NORTH  
STA. 14+25 - STA. 16+25

SCALE PLAN: 1" = 10'  
PROFILE: 1" = 10'

DRAWING No. 2020031-88

REV.	DATE	DESCRIPTION
01	2-14-24	ADDENDUM 1
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**S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS**

CROSS-SECTIONS - GREENVIEW DRIVE NORTH  
STA. 16+50 - STA. 20+25

SCALE PLAN: 1" = 10'  
PROFILE: 1" = 10'

DRAWING NO. 2020031-89

SHEET NO. 89 OF 92

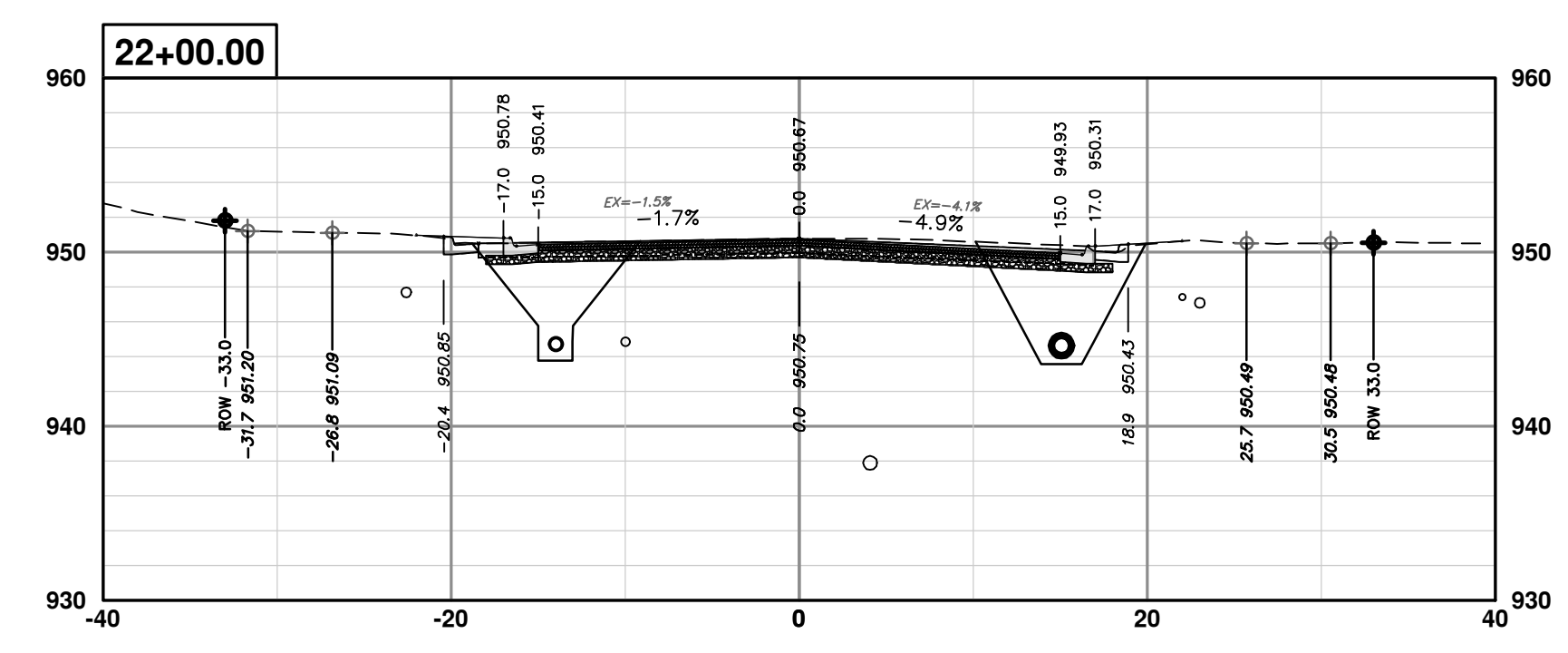
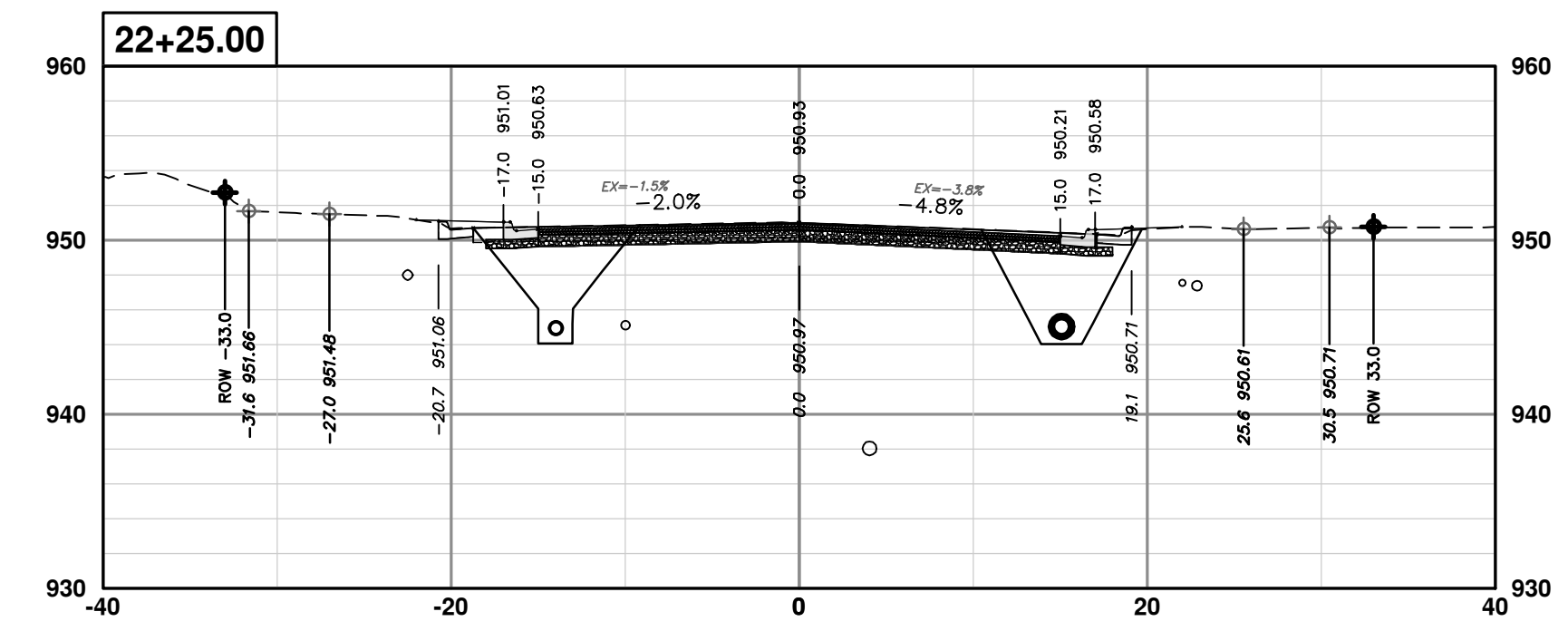
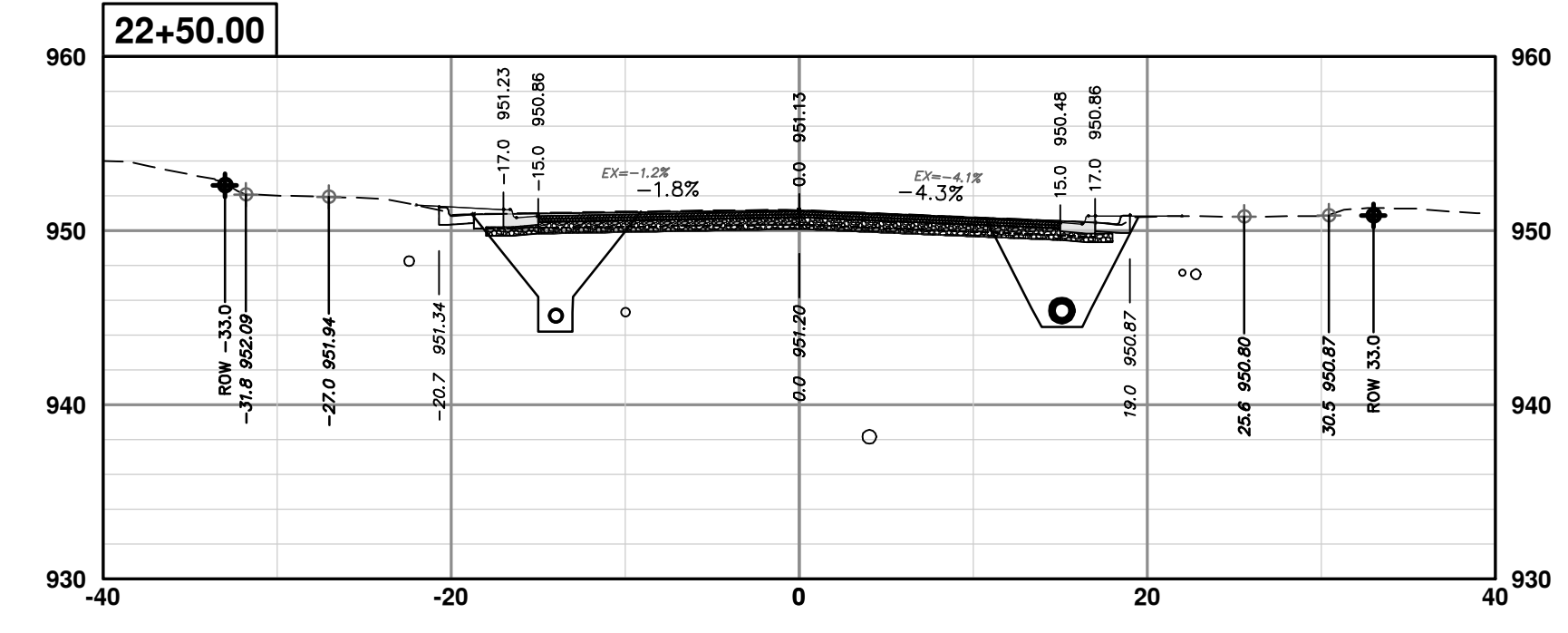
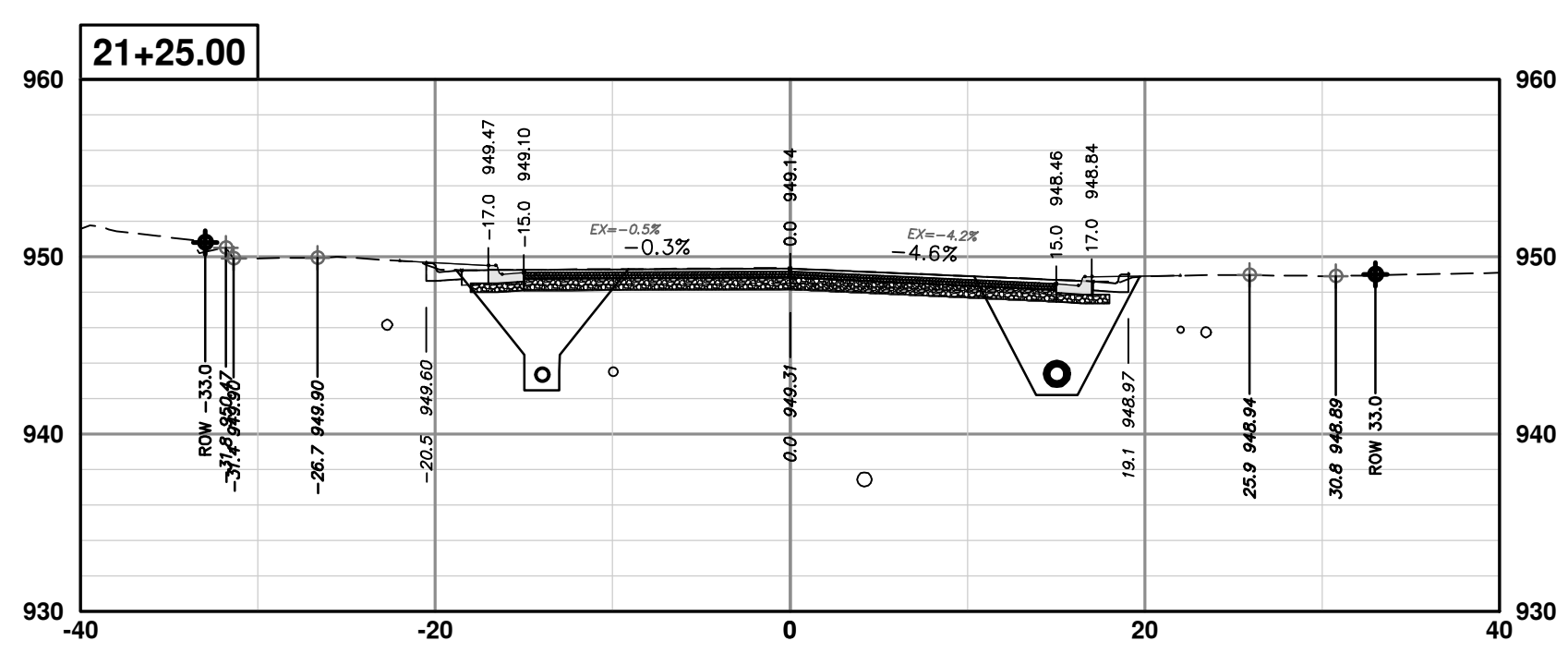
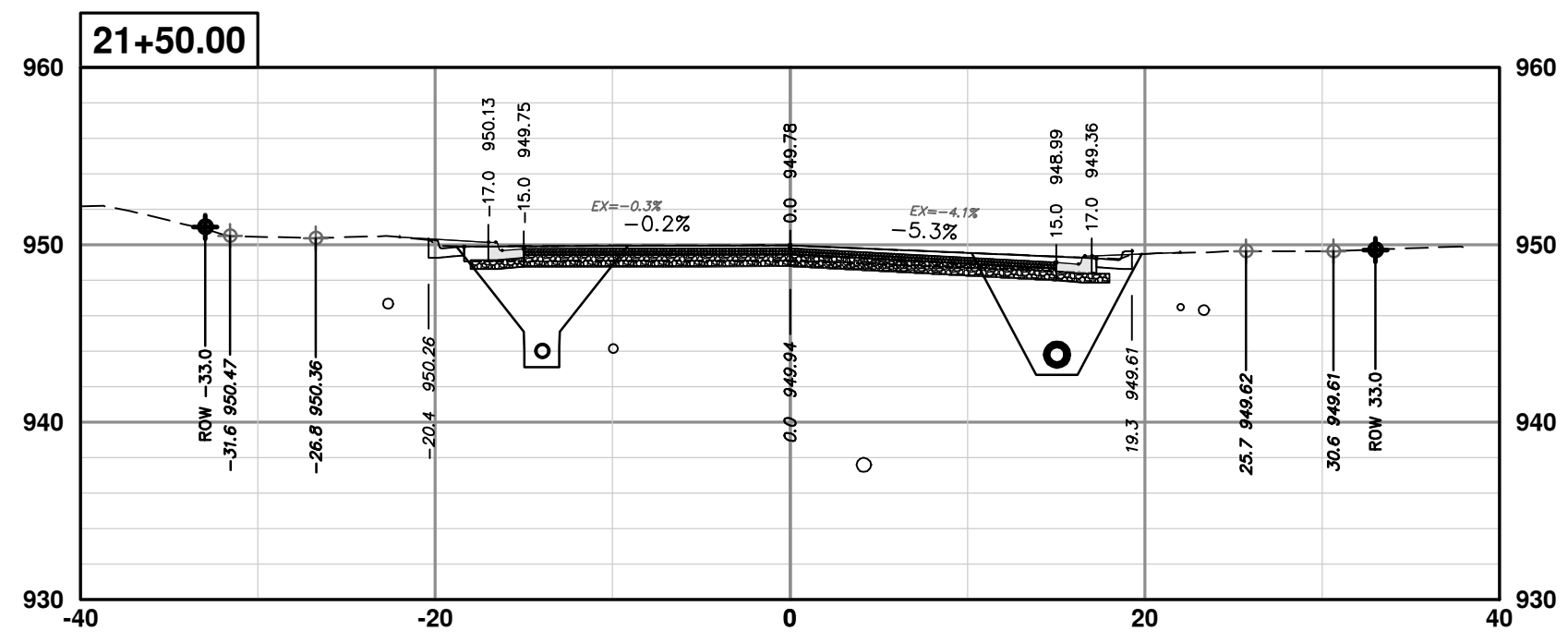
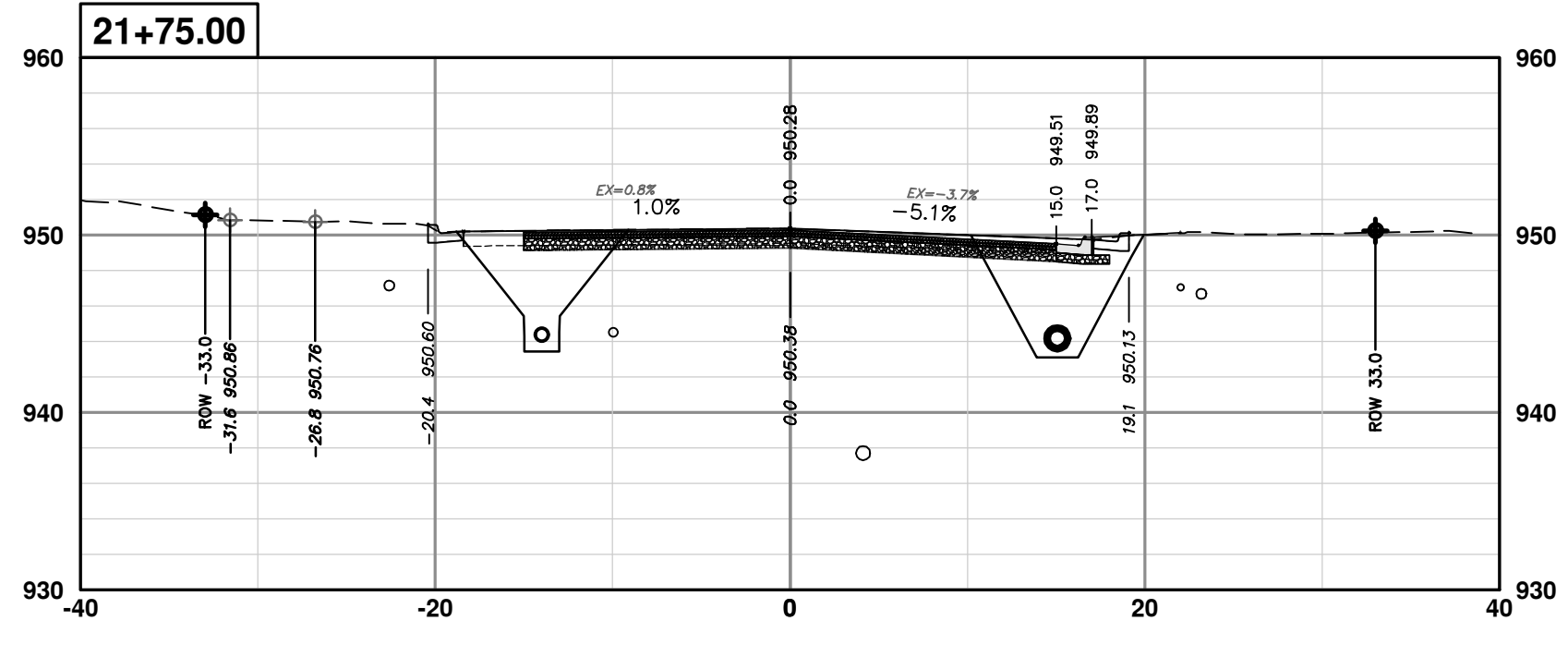
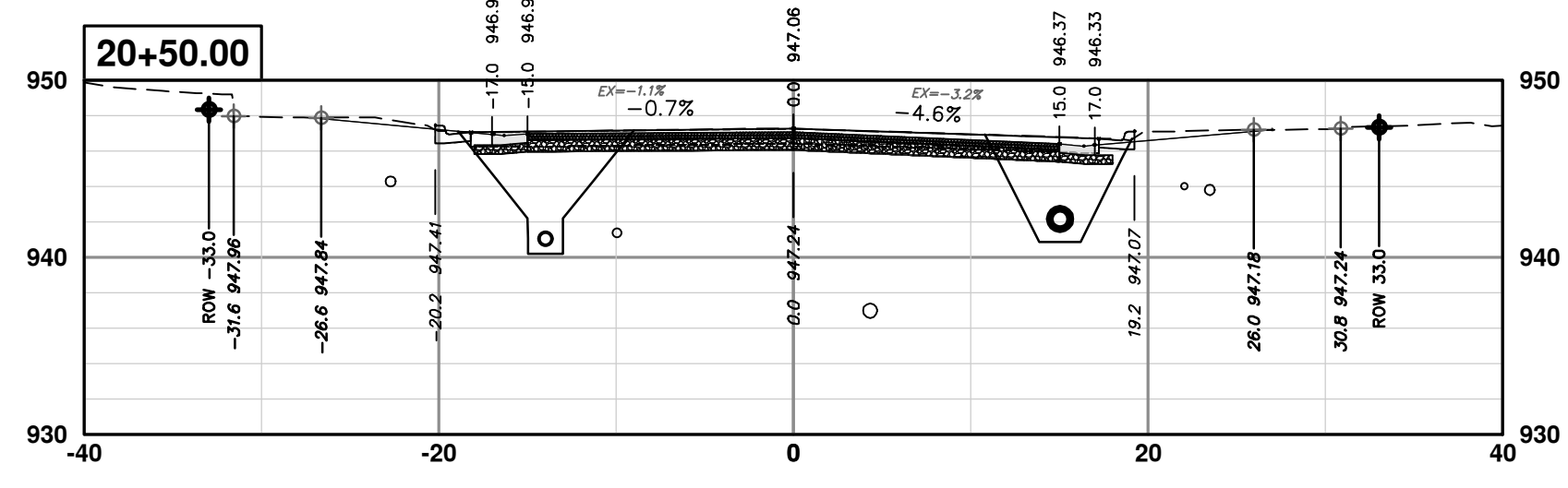
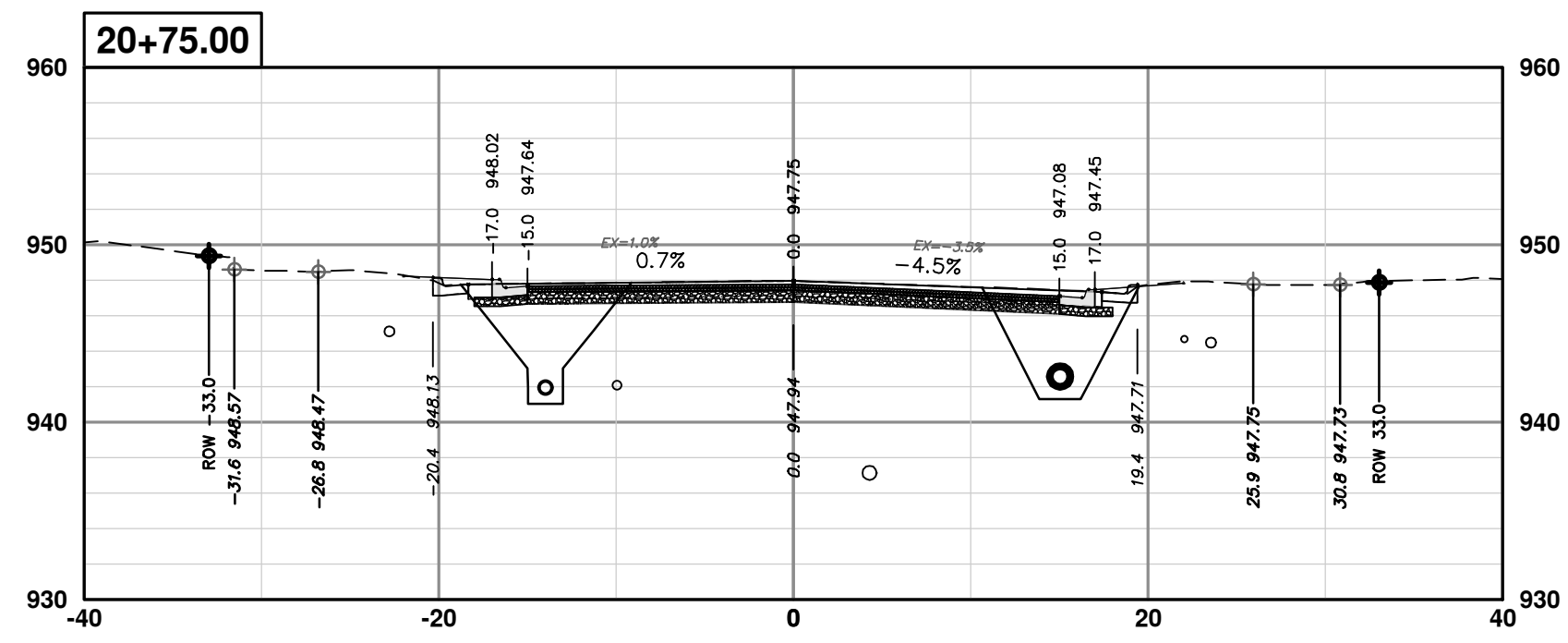
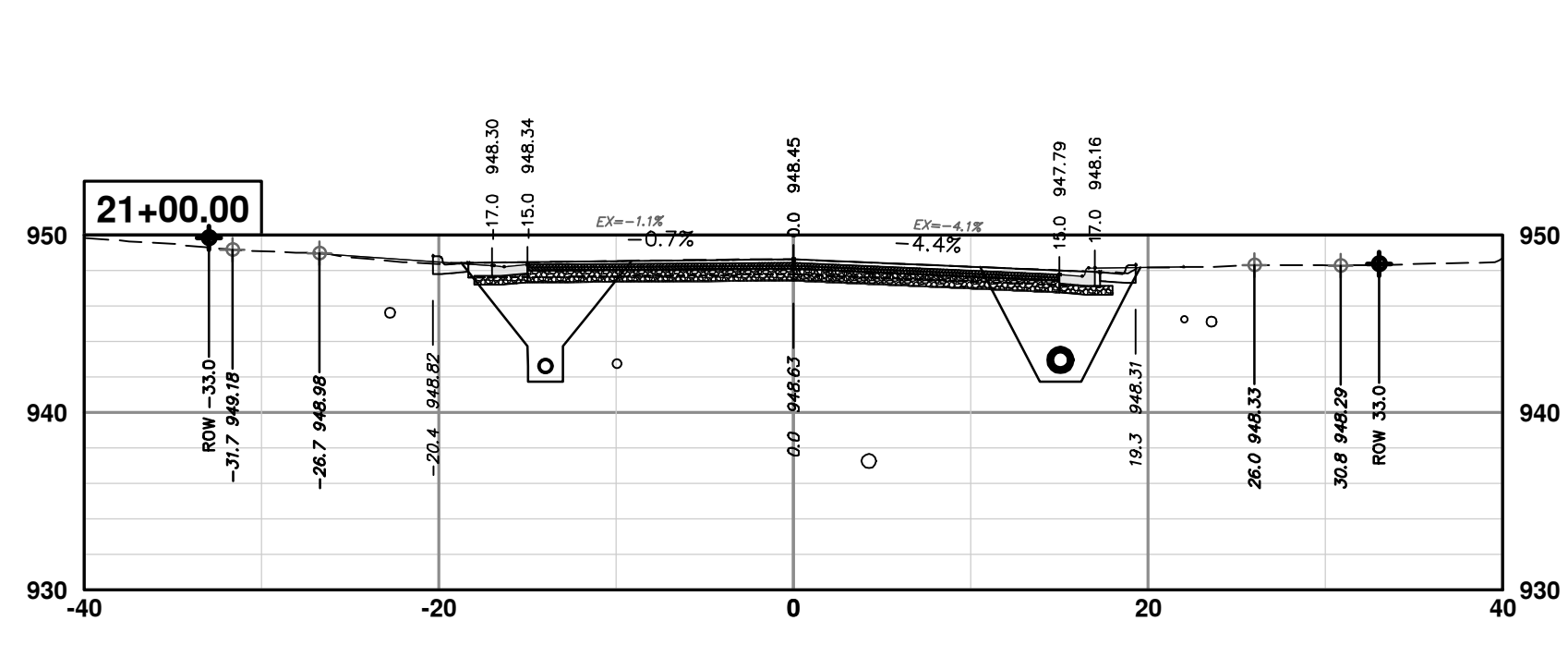
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ADDENDUM 1

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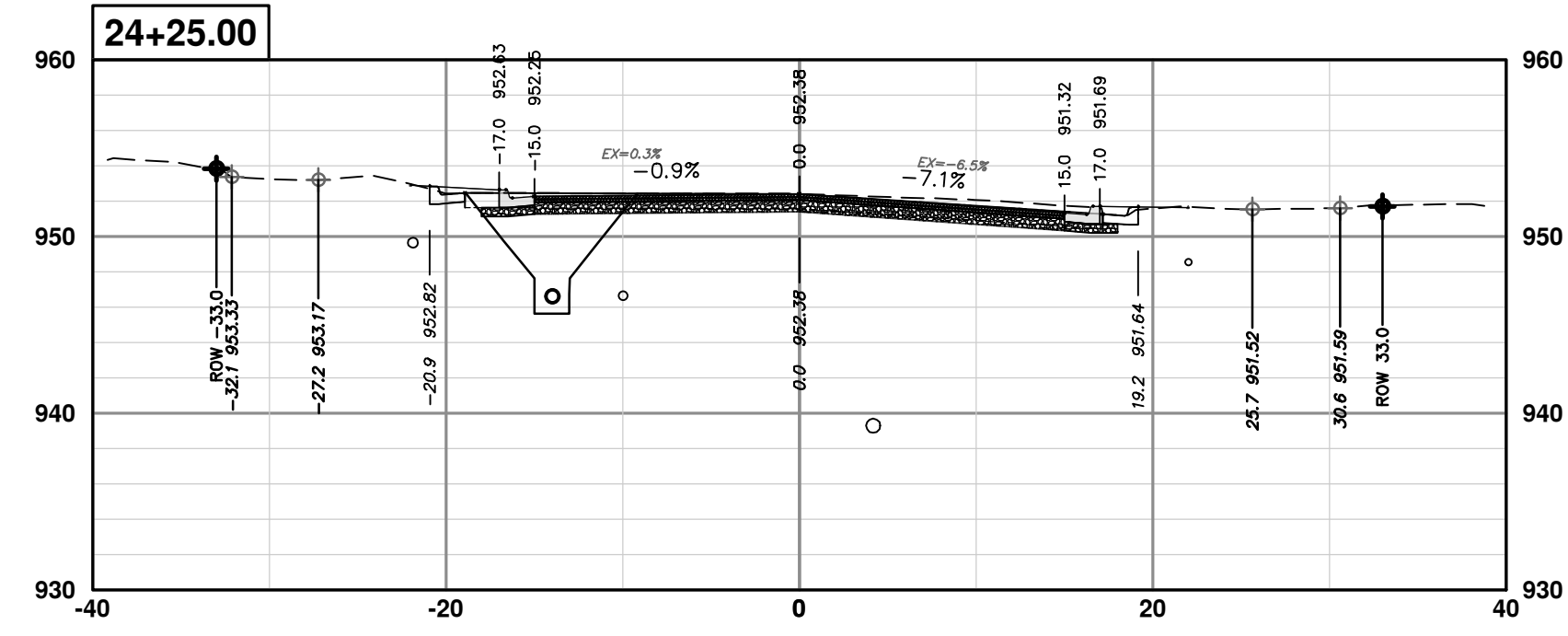
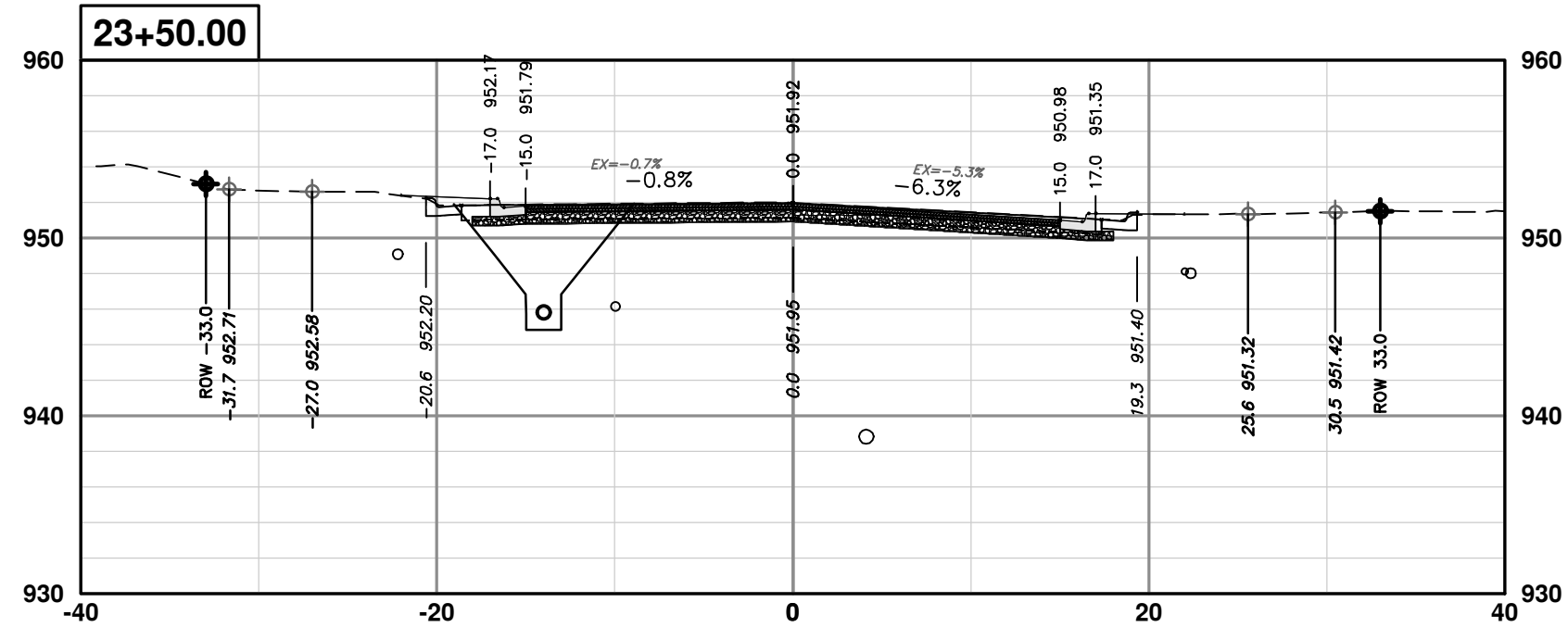
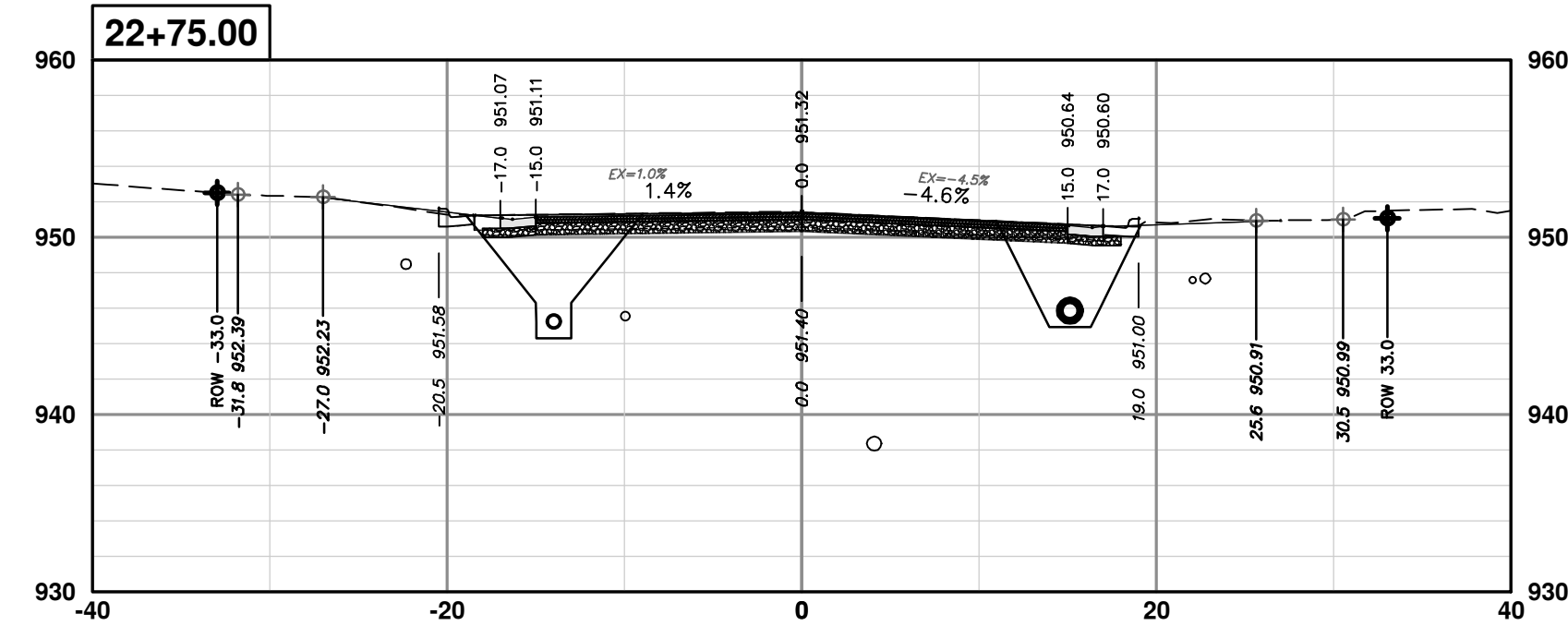
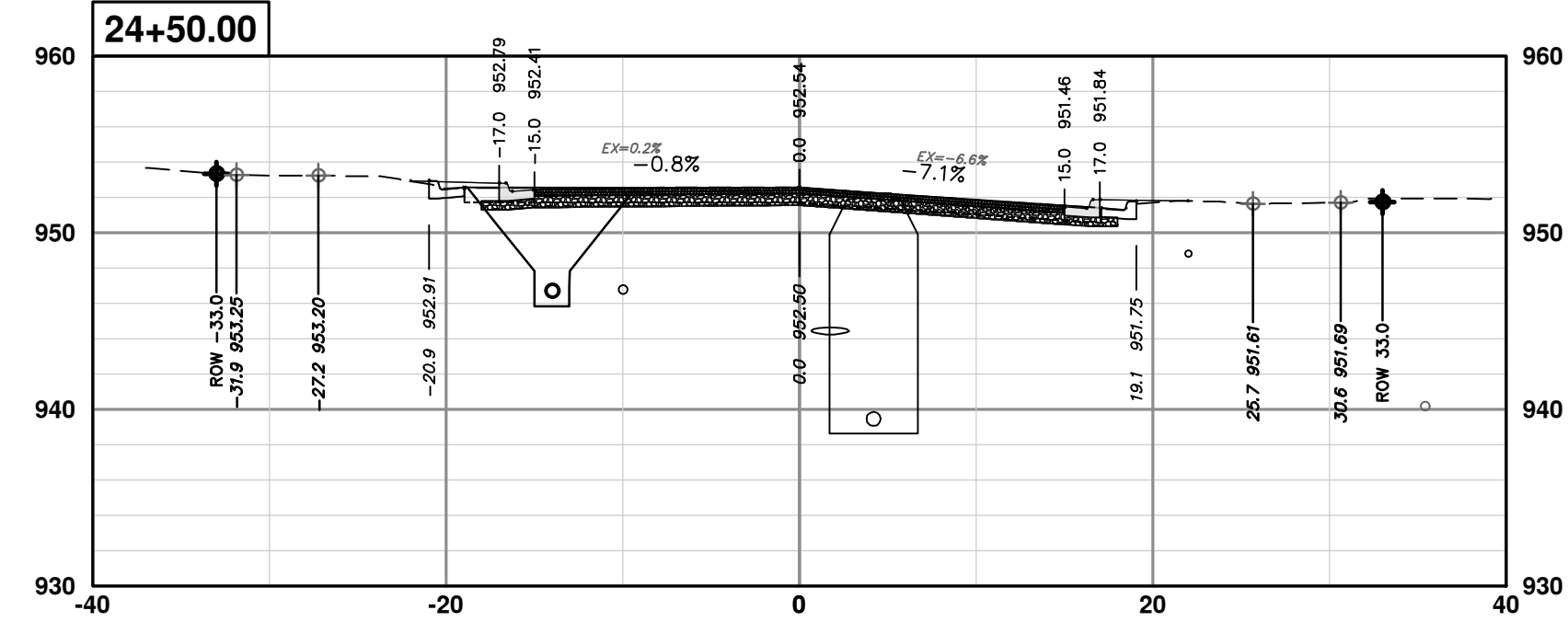
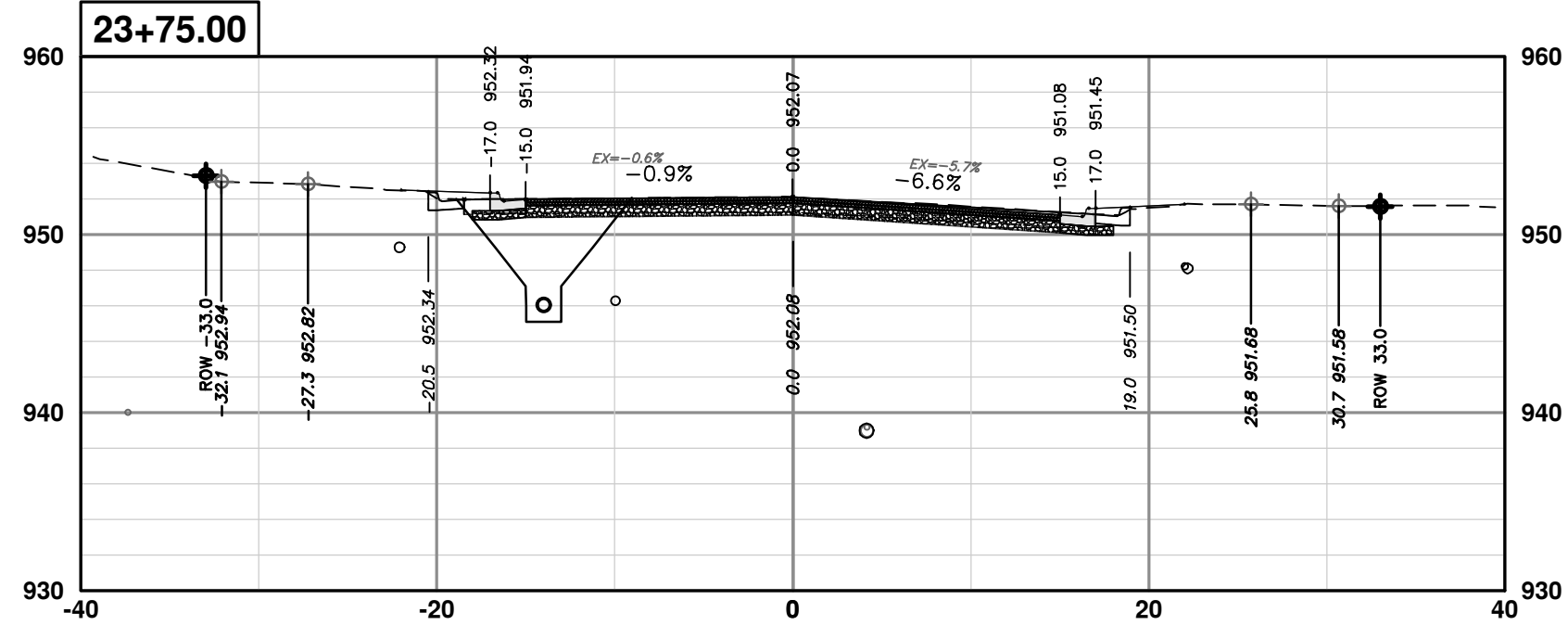
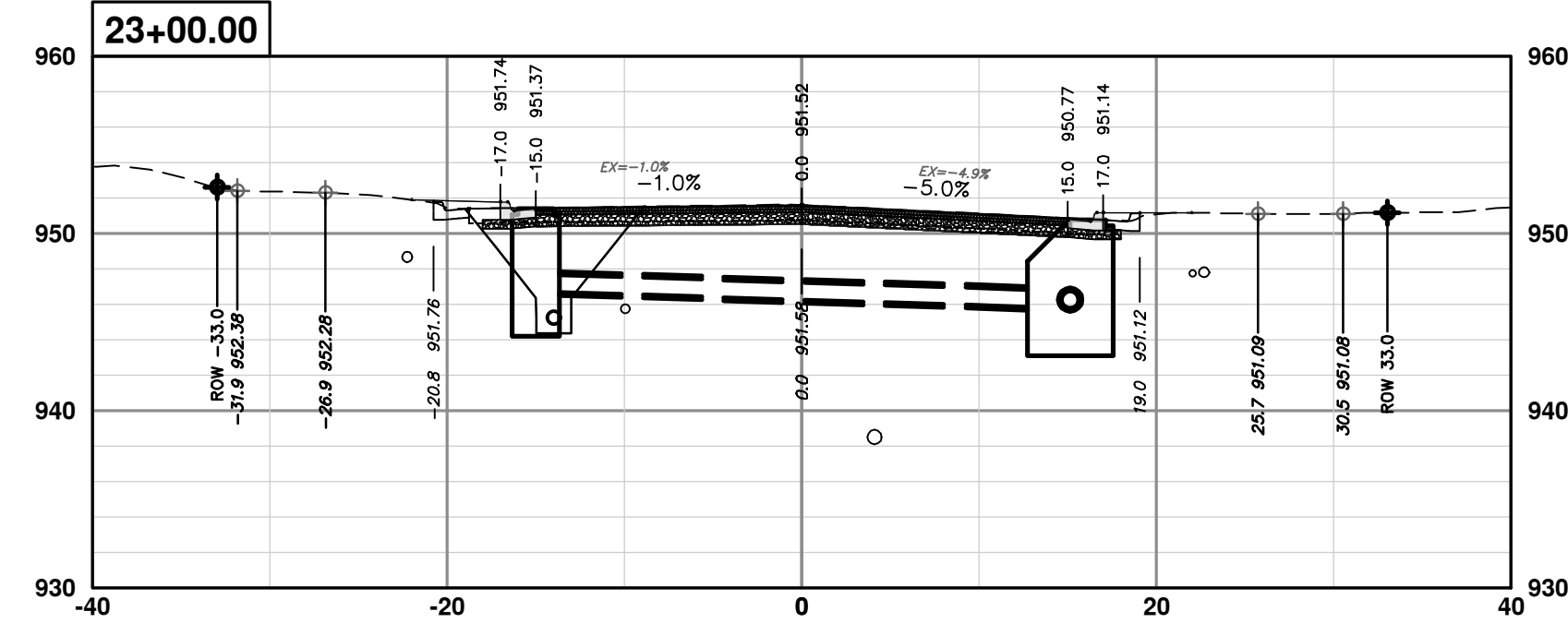
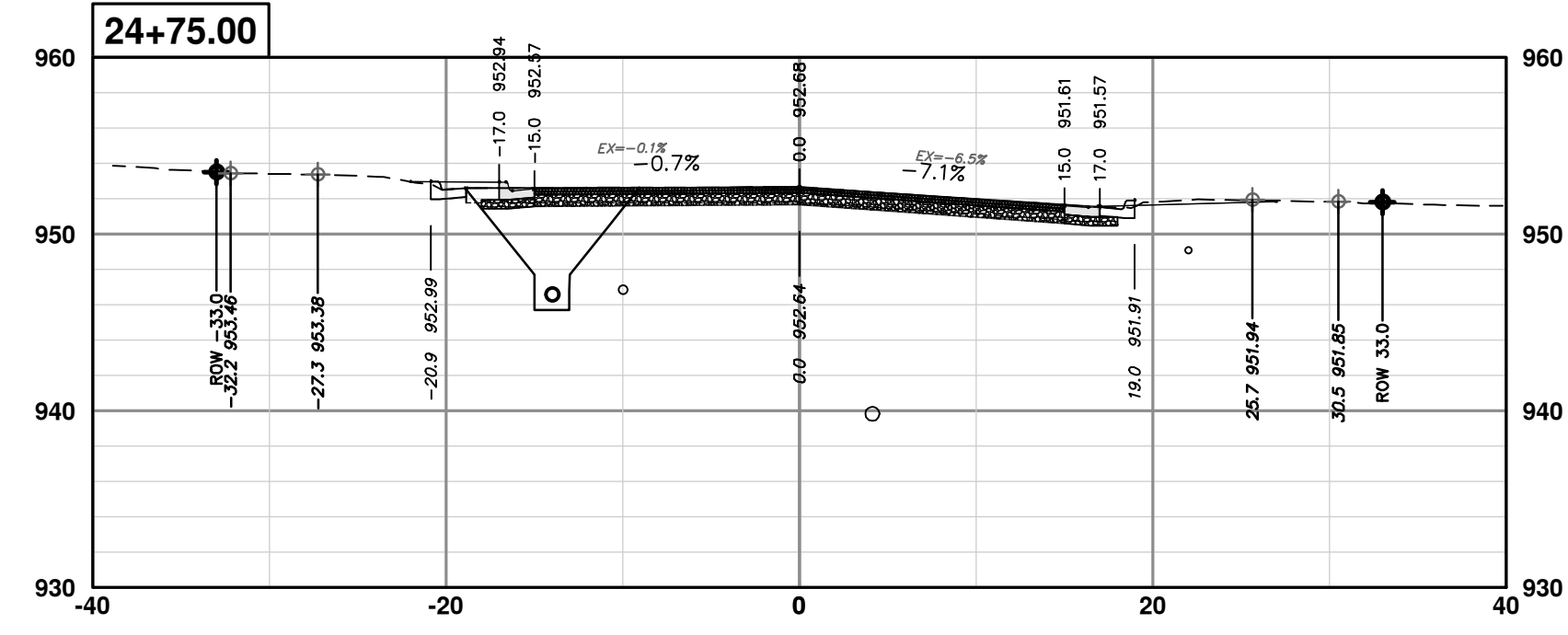
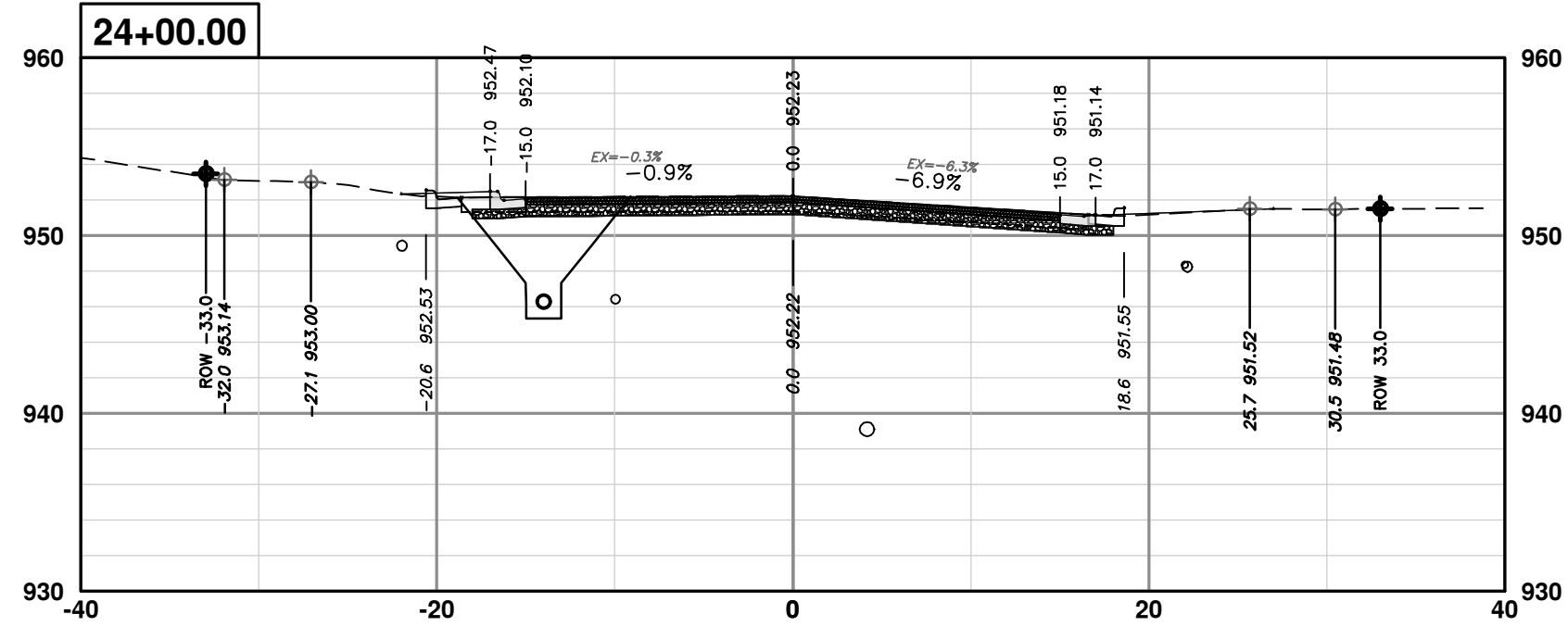
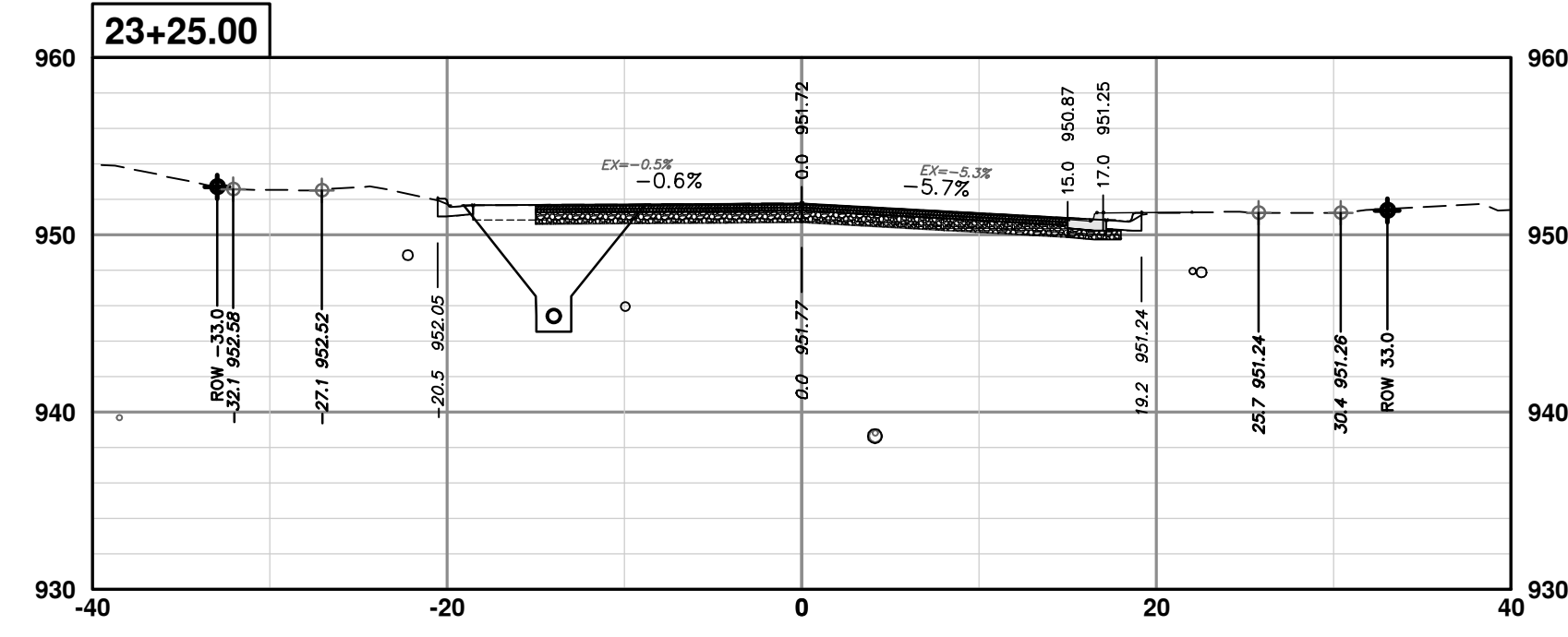
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STA. 20+50 - STA. 22+50

SCALE PLAN: 1" = 10'  
PROFILE: 1" = 10'  
DRAWING No. 2020031-90

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01	ADDENDUM 1	2-14-24	A2D	TA
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CROSS-SECTIONS - GREENVIEW DRIVE NORTH  
STA. 22+75 - STA. 24+75

SCALE PLAN: 1" = 10'  
PROFILE: 1" = 10'

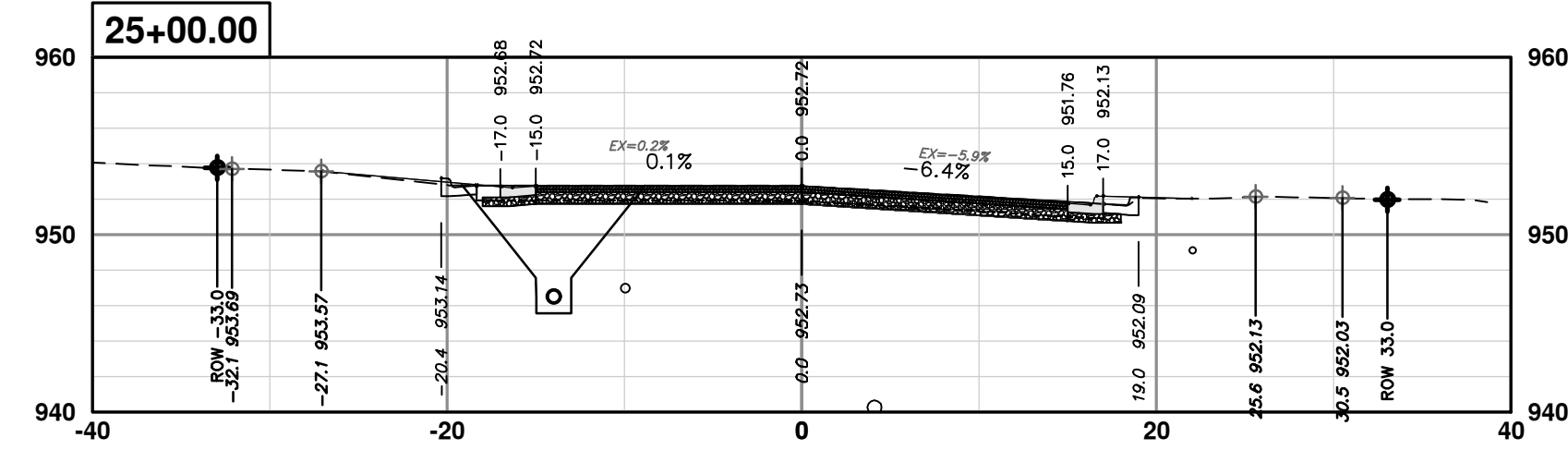
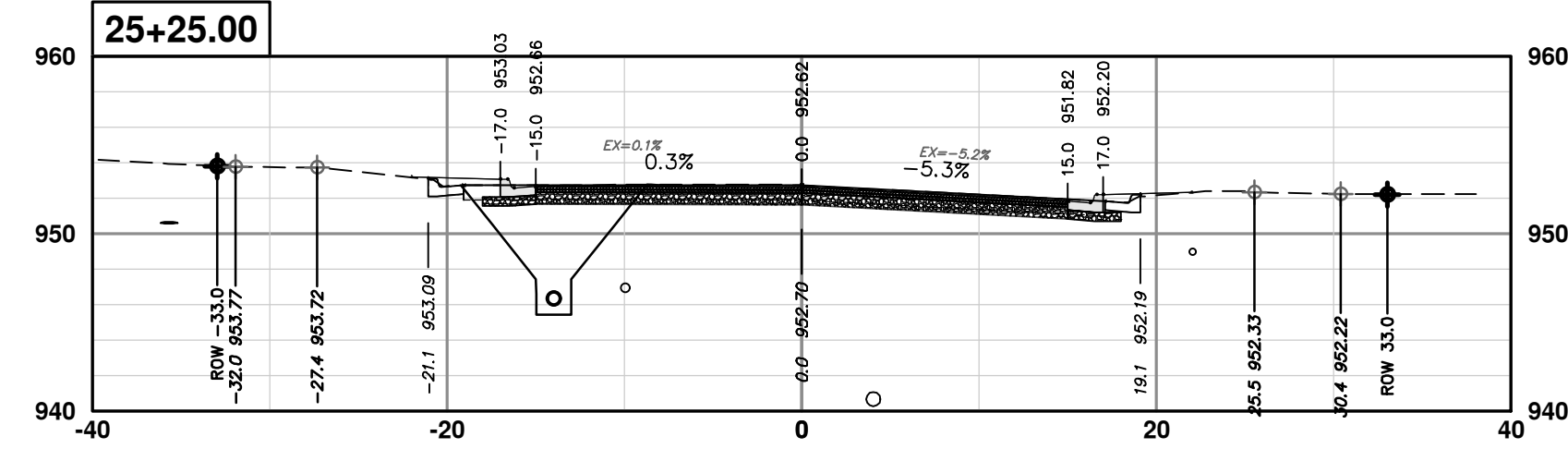
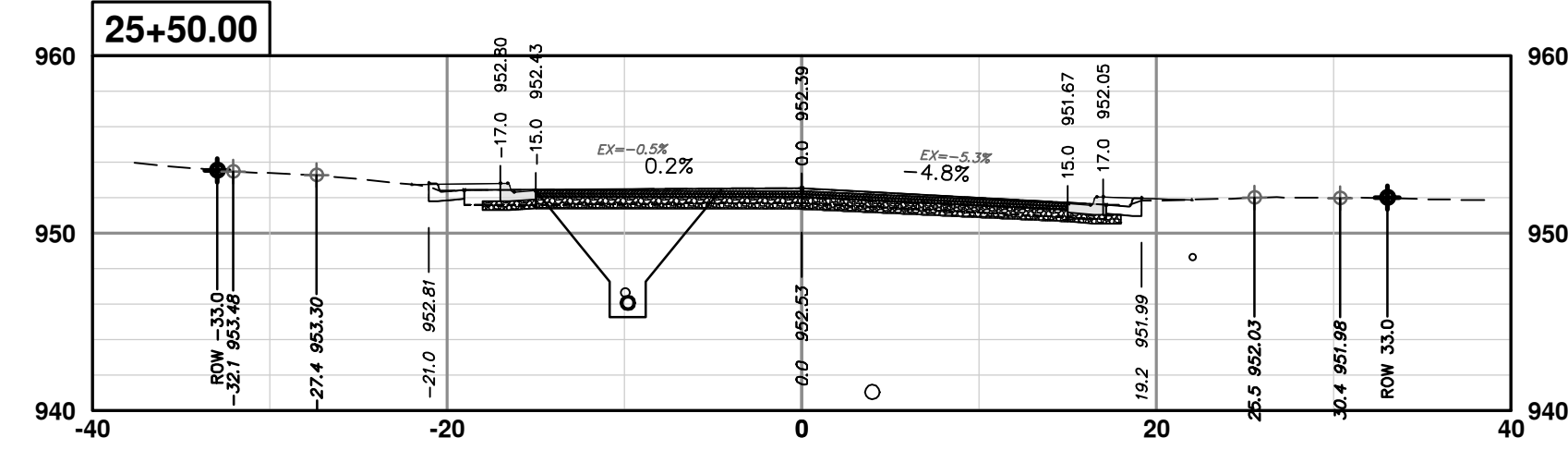
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01	ADDENDUM 1	2-14-24	A2D	TA
00	BID SET	1-30-24	A2D	TA

