



# CITY OF ANN ARBOR ENGINEERING

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

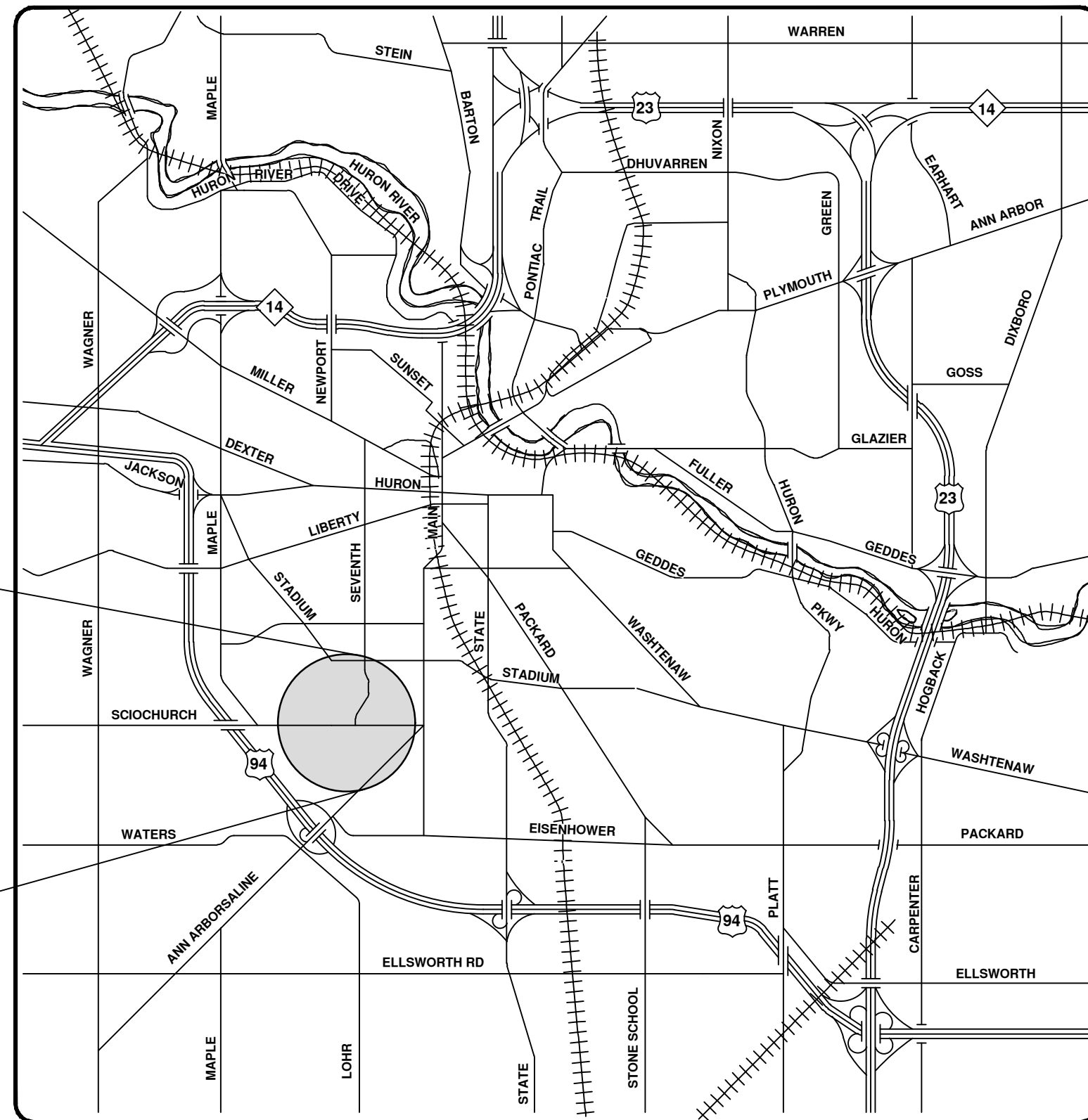
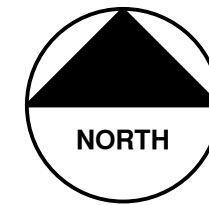
RFP No. 24-08, FILE No. 2020031

### NOTES

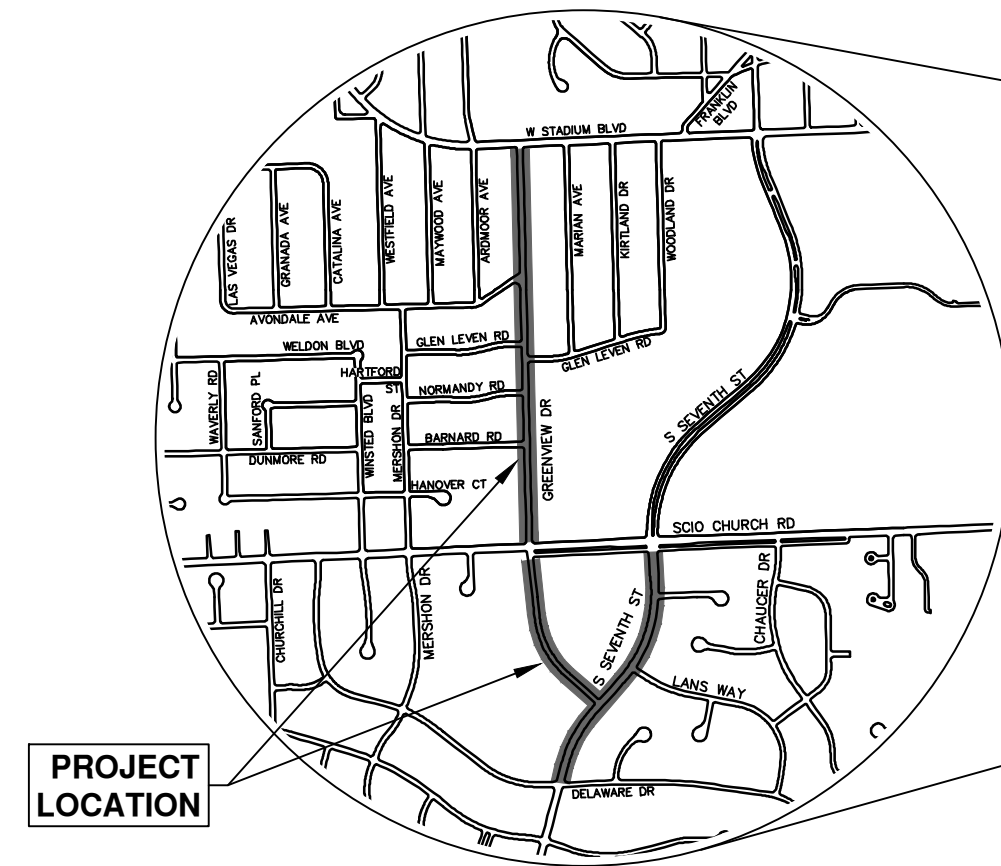
FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 174 OF 2013, THE CONTRACTOR SHALL CALL 811 OR 1-800-482-7171 A MINIMUM OF THREE FULL WORKING DAYS, EXCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS, PRIOR TO BEGINNING EACH EXCAVATION IN AREAS WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY 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. 3+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



NO.	DATE	DESCRIPTION
1-30-24	DATE	DESCRIPTION
A2D	DRAWN	CHECKED
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CITY OF ANN ARBOR  
PUBLIC SERVICES  
301 EAST HURON STREET  
ANN ARBOR, MI 48106-0647  
www.a3gov.org



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  
DRAWING No. 2020031-1



**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
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**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

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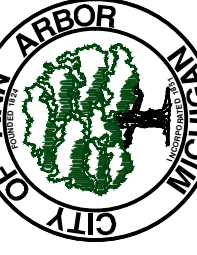


Know what's below.  
Call before you dig.

1-30-24	DATE	1-30-24	DATE	1-30-24
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TA	CHECKED	TA	CHECKED	TA
DESCRIPTION				



CITY OF ANN ARBOR  
PUBLIC SERVICES  
301 EAST HURON STREET  
PO BOX 86410  
ANN ARBOR MI 48108-8647  
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CITY OF ANN ARBOR MICHIGAN

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS

STANDARD NOTES

SCALE: NTS

DRAWING No. 2020031-2

SHEET No.

2 OF 92

**EXISTING LEGEND**

<p>⊕ FIRE HYDRANT</p> <p>I GATE VALVE IN BOX</p> <p>⊙ GATE VALVE IN WELL</p> <p>⊙ STOP BOX</p> <p>▣ WATER VAULT</p> <p>⊙ WELL</p> <p>□ CATCH BASIN (SQ)</p> <p>⊙ CATCH BASIN (RD)</p> <p>○ STORM MANHOLE</p> <p>□ NON-CURB CATCH BASIN (SQ)</p> <p>) END SECTION</p> <p>○ SANITARY MANHOLE</p> <p>○ CLEAN-OUT</p> <p>○ POST</p> <p>⊕ PEDESTRIAN SIGNAL</p> <p>† SIGN</p> <p>□ HAND HOLE</p> <p>⊙ ORNAMENTAL LIGHT</p> <p>✖ FLOOD LIGHT</p> <p>⊙ UNKNOWN MANHOLE</p> <p>⊙ TELEPHONE MANHOLE</p> <p>⊕ TELEPHONE RISER</p> <p>⊙ GAS VALVE</p> <p>○ GAS VENT</p> <p>▣ GAS BOX</p> <p>⊕ ELECTRICAL RISER</p> <p>⊕ TRANSFORMER</p> <p>⊕ UTILITY POLE</p> <p>○ LAMP POLE</p> <p>▷ GUY ANCHOR</p> <p>○ GUY POLE</p> <p>⊙ MONITORING WELL</p> <p>▣ MAILBOX</p> <p>● SOIL BORING</p> <p>△ TRAVERSE POINT</p> <p>+ BENCH MARK</p> <p>○ IRON PIPE</p> <p>□ MON BOX</p>	<p>--- w --- WATER MAIN</p> <p>- - - - - WATER MAIN ABANDONED</p> <p>- - - - - r --- STORM SEWER</p> <p>- - - - - r --- STORM SEWER ABANDONED</p> <p>--- s --- SANITARY SEWER</p> <p>- - - - - s --- SANITARY SEWER ABANDONED</p> <p>--- g --- GAS MAIN</p> <p>--- g (DEAD) --- GAS MAIN (DEAD)</p> <p>--- o v v o --- ELECTRICAL OVER HEAD</p> <p>--- w w w --- ELECTRICAL UNDER GROUND</p> <p>--- e duct bank --- ELECTRICAL DUCT BANK</p> <p>--- . o h t . --- TELEPHONE OVER HEAD</p> <p>--- . t . --- TELEPHONE UNDER GROUND</p> <p>--- t duct bank --- TELEPHONE DUCT BANK</p> <p>--- o h t v --- CABLE TV OVER HEAD</p> <p>--- t v --- CABLE TV UNDER GROUND</p> <p>--- f o --- FIBER OPTIC</p> <p>--- f o duct bank --- FIBER OPTIC DUCT BANK</p> <p>----- BOUNDARY</p> <p>/// /// /// /// BUILDING</p> <p>--- --- CENTERLINE OF DITCH</p> <p>--- --- CENTERLINE/CROWN OF ROAD</p> <p>--- 800 --- CONTOUR MAJOR</p> <p>--- 799 --- CONTOUR MINOR</p> <p>----- EDGE OF WATER</p> <p>▨ FLOODPLAIN</p> <p>/// /// /// FENCE</p> <p>--- --- GRAVEL</p> <p>--- --- GUARDRAIL</p> <p>--- --- STONE WALL</p> <p>--- --- R.O.W.</p> <p>--- --- TREELINE</p> <p>--- --- WETLAND</p> <p>--- --- EDGE OF BRUSH</p> <p>--- --- HEDGE</p> <p>○ TREE (DECIDUOUS)</p> <p>○ TREE (CONIFEROUS)</p> <p>○ SHRUB (DECIDUOUS)</p> <p>○ STUMP</p> <p>○ TREE TO REMAIN &amp; PROTECT (DECIDUOUS) CRITICAL ROOT ZONE (C.R.Z.) = DIAMETER BRESTA HEIGHT (INCHES) X 10</p> <p>○ TREE TO REMAIN &amp; PROTECT (CONIFEROUS) CRITICAL ROOT ZONE (C.R.Z.) = DIAMETER BRESTA HEIGHT (INCHES) X 10</p>
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**PROPOSED LEGEND**

<p>⊕ HYDRANT (PLAN)</p> <p>⊙ WATER GATE WELL</p> <p>▽ REDUCER</p> <p>⊕ WATER GATE VALVE</p> <p>○ WATER STOP BOX</p> <p>▣ WATER VAULT</p> <p>⊙ INLET</p> <p>⊕ DOUBLE INLET</p> <p>○ INLET JUNCTION CHAMBER</p> <p>○ ROUND CATCH BASIN</p> <p>○ STORM MANHOLE</p> <p>▷ DRAIN ARROW</p> <p>△ FLARED END SECTION</p> <p>○ SANITARY MANHOLE</p> <p>○ CLEAN-OUT</p> <p>● BARREL</p> <p>▽ SIGN</p> <p>○ PUSH BUTTON</p> <p>■ HAND HOLE</p>	<p>--- w --- WATER MAIN</p> <p>--- r --- STORM SEWER</p> <p>--- s --- SANITARY SEWER</p> <p>--- FO --- FIBER OPTIC</p> <p>--- E --- ELECTRICAL</p> <p>--- --- CENTERLINE OF DITCH</p> <p>--- --- CENTERLINE OF ROAD</p> <p>--- // --- FENCE</p> <p>--- --- GRAVEL</p> <p>--- --- SILT FENCE</p> <p>--- --- PROTECTIVE FENCE</p> <p>--- --- GUARDRAIL</p> <p>--- --- LOT/UNIT</p> <p>--- --- CURB</p> <p>--- --- TEMPORARY GRADING PERMIT</p> <p>--- 800 --- CONTOUR MAJOR</p> <p>--- 799 --- CONTOUR MINOR</p> <p>--- --- WATER EASMENT</p> <p>--- --- STORM EASEMENT</p> <p>--- --- SANITARY EASEMENT</p> <p>--- --- R.O.W.</p> <p>--- --- LIMITS OF CONSTRUCTION</p> <p>--- --- LIMIT OF GRADING</p> <p>--- --- STONE WALL</p> <p>▨ DETECTABLE WARNING</p> <p>▨ ASPHALT</p> <p>▨ CONCRETE</p> <p>▨ SIDEWALK</p> <p>○ TREE (DECIDUOUS)</p> <p>○ TREE (CONIFEROUS)</p> <p>○ TREE TO BE REMOVED (DECIDUOUS)</p> <p>○ TREE TO BE REMOVED (CONIFEROUS)</p> <p>○ STUMP TO BE REMOVED</p>
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AZD	DRAWN
1-30-24	DATE
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CITY OF ANN ARBOR  
PUBLIC SERVICES  
301 EAST HURON STREET  
PO BOX 866  
ANN ARBOR MI 48106-0867  
www.a2gov.org

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

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

LEGEND

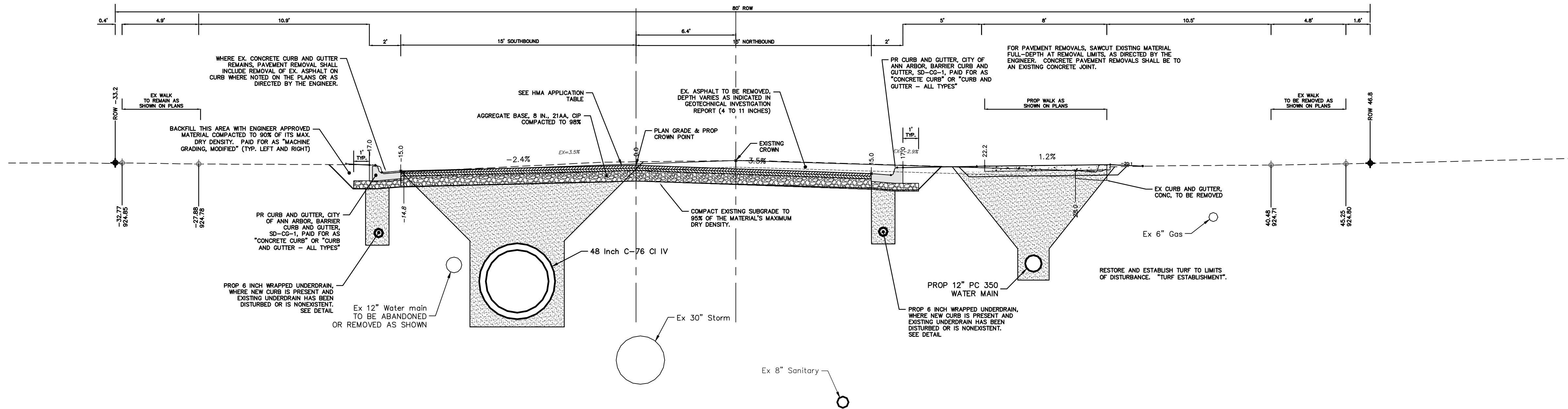
SCALE: NTS

DRAWING No. 2020031-3

SHEET No.

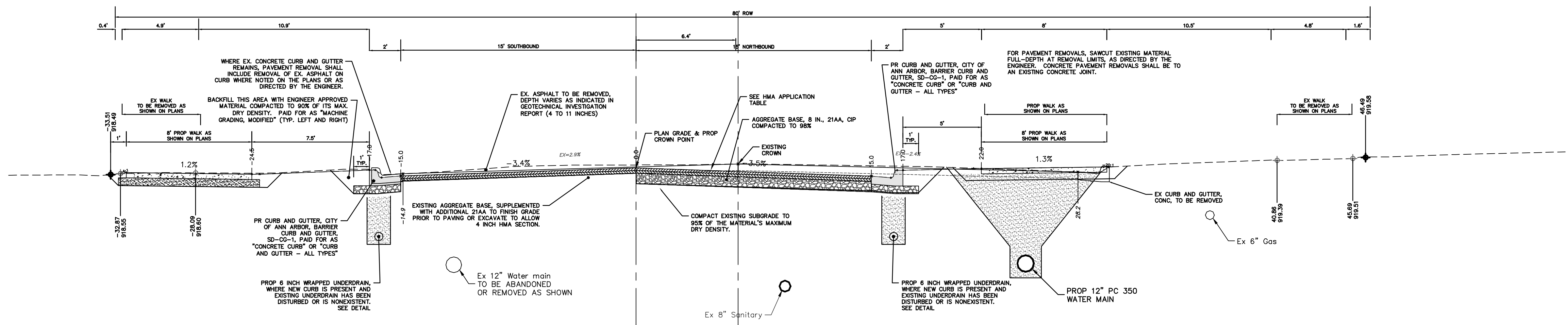


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SEVENTH STREET - 8+35 TO POE  
TYPICAL SECTION

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



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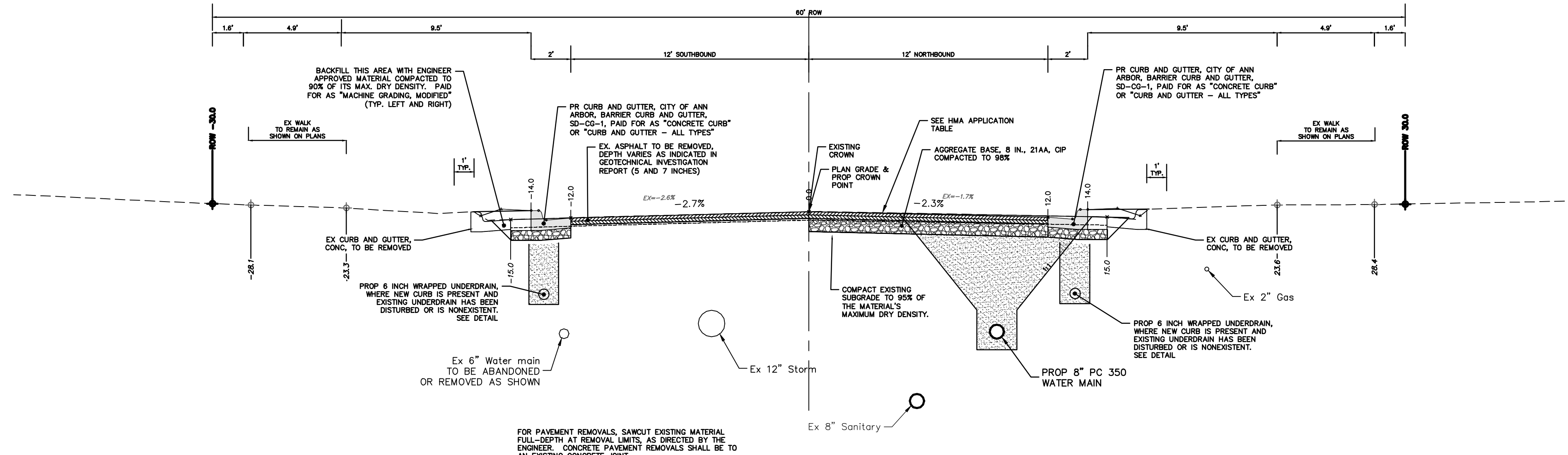
CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING  
S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS  
TYPICAL SECTIONS  
S SEVENTH STREET

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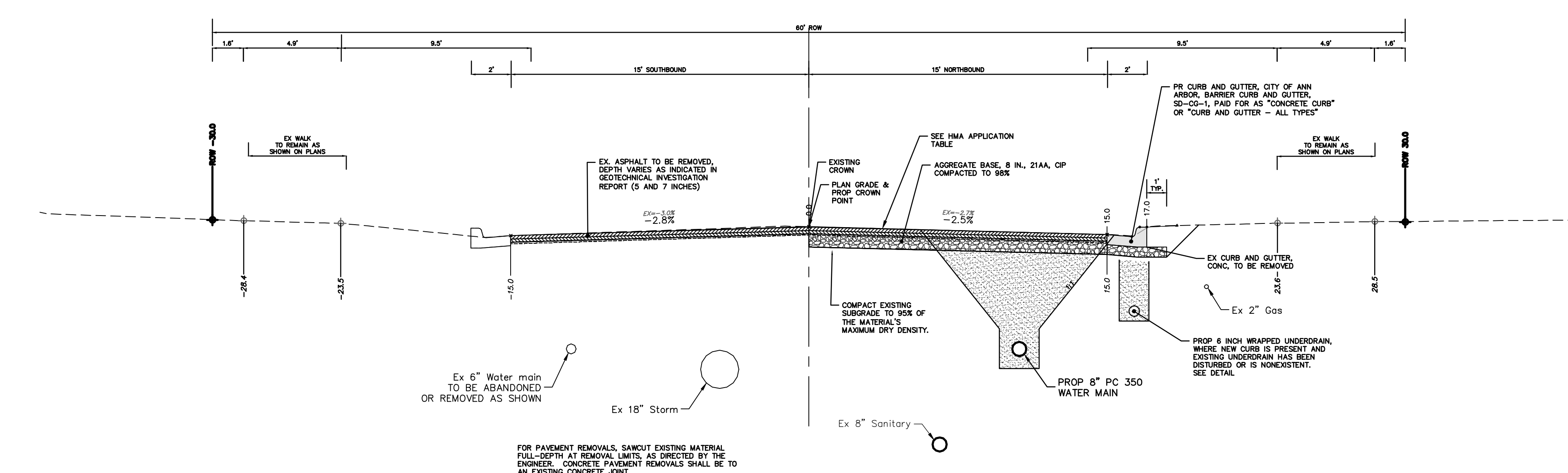
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**GREENVIEW DRIVE (SOUTH) - MIDBLOCK  
TYPICAL SECTION**

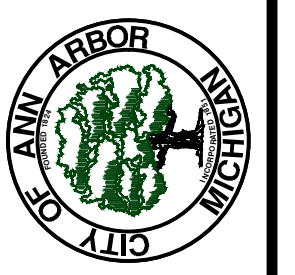


**GREENVIEW DRIVE (SOUTH)  
TYPICAL SECTION**



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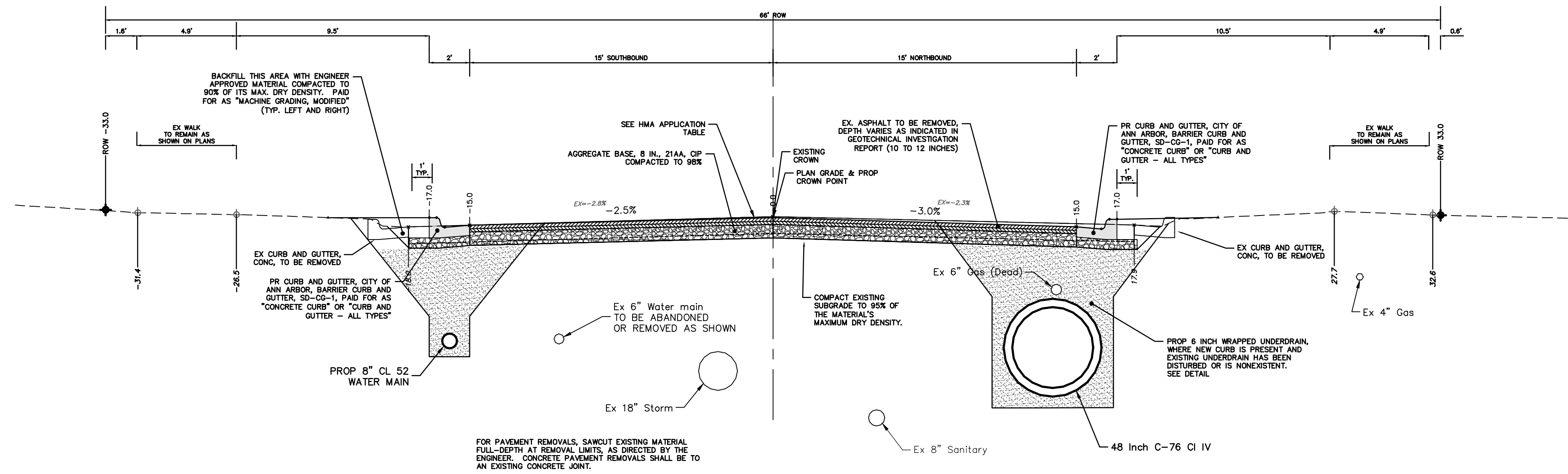


**CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING**  
**S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS**  
TYPICAL SECTIONS  
GREENVIEW DRIVE SOUTH

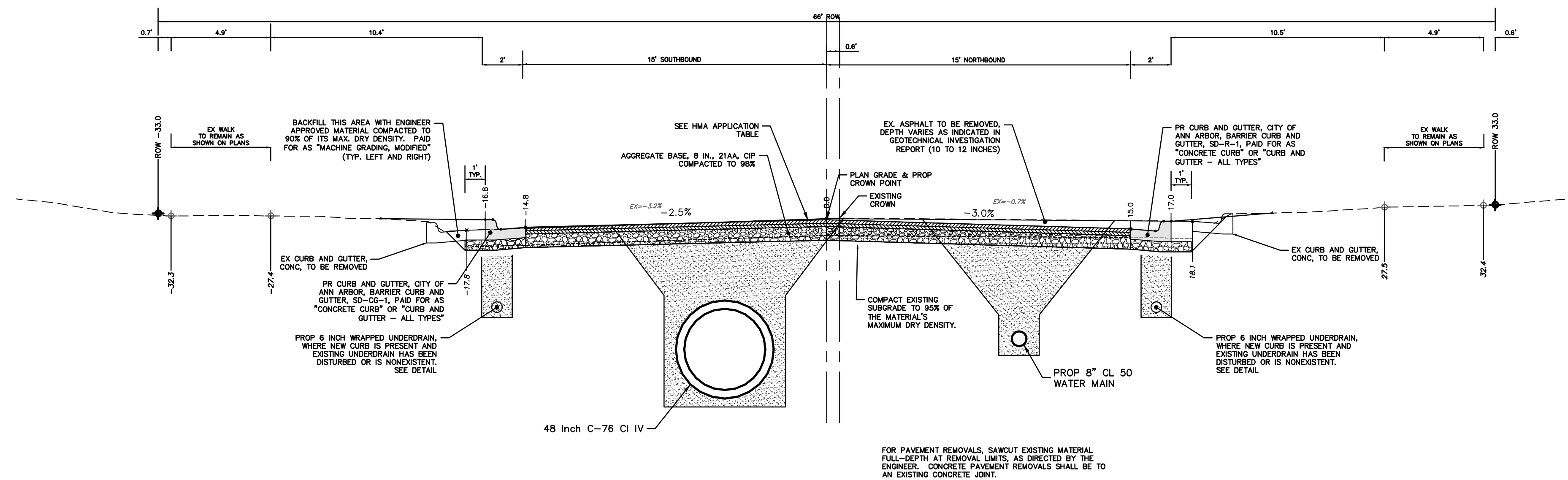
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**GREENVIEW DRIVE (NORTH) - 9+75 TO POE  
TYPICAL SECTION**



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



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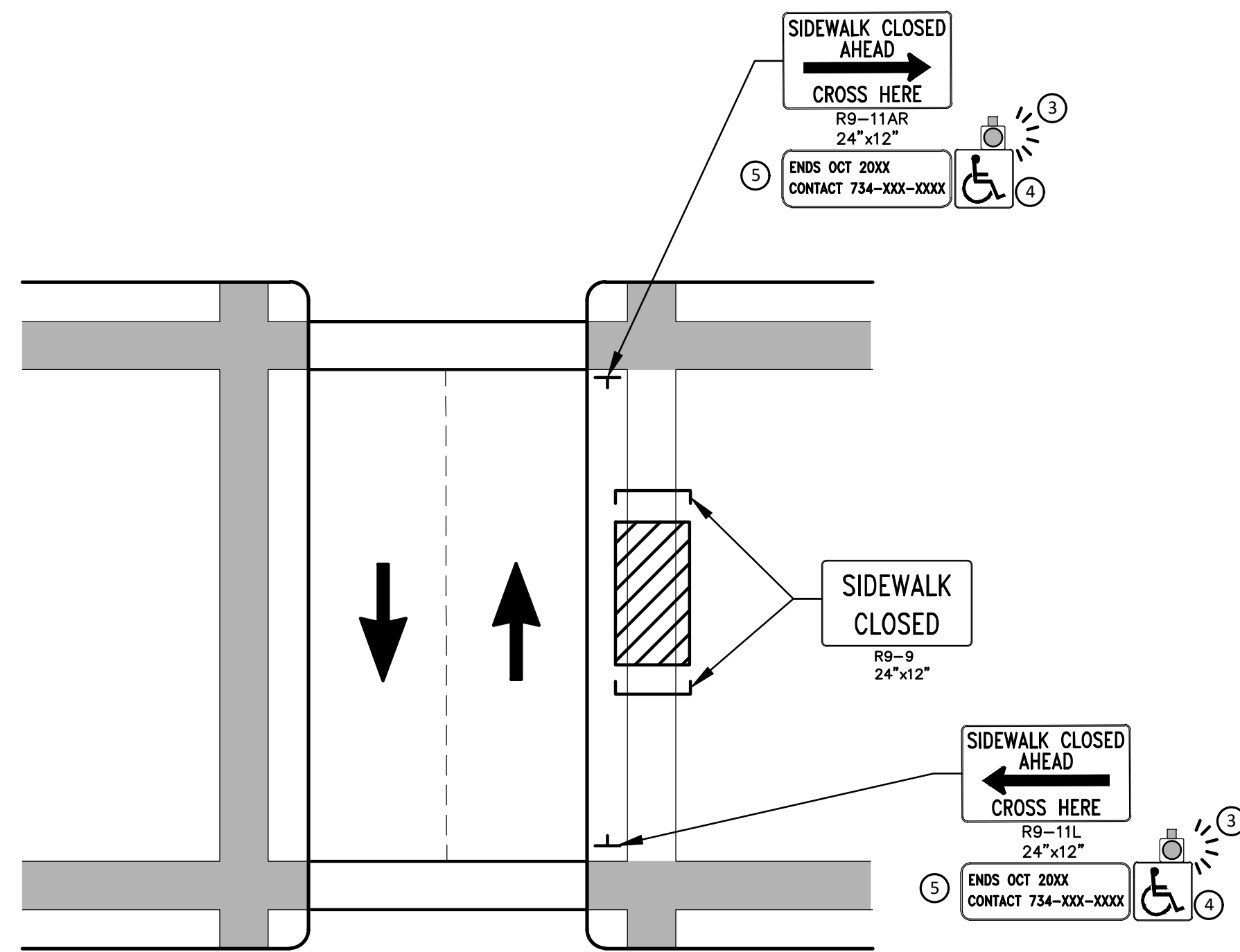


**CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING**  
**S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS**  
TYPICAL SECTIONS  
GREENVIEW DRIVE NORTH

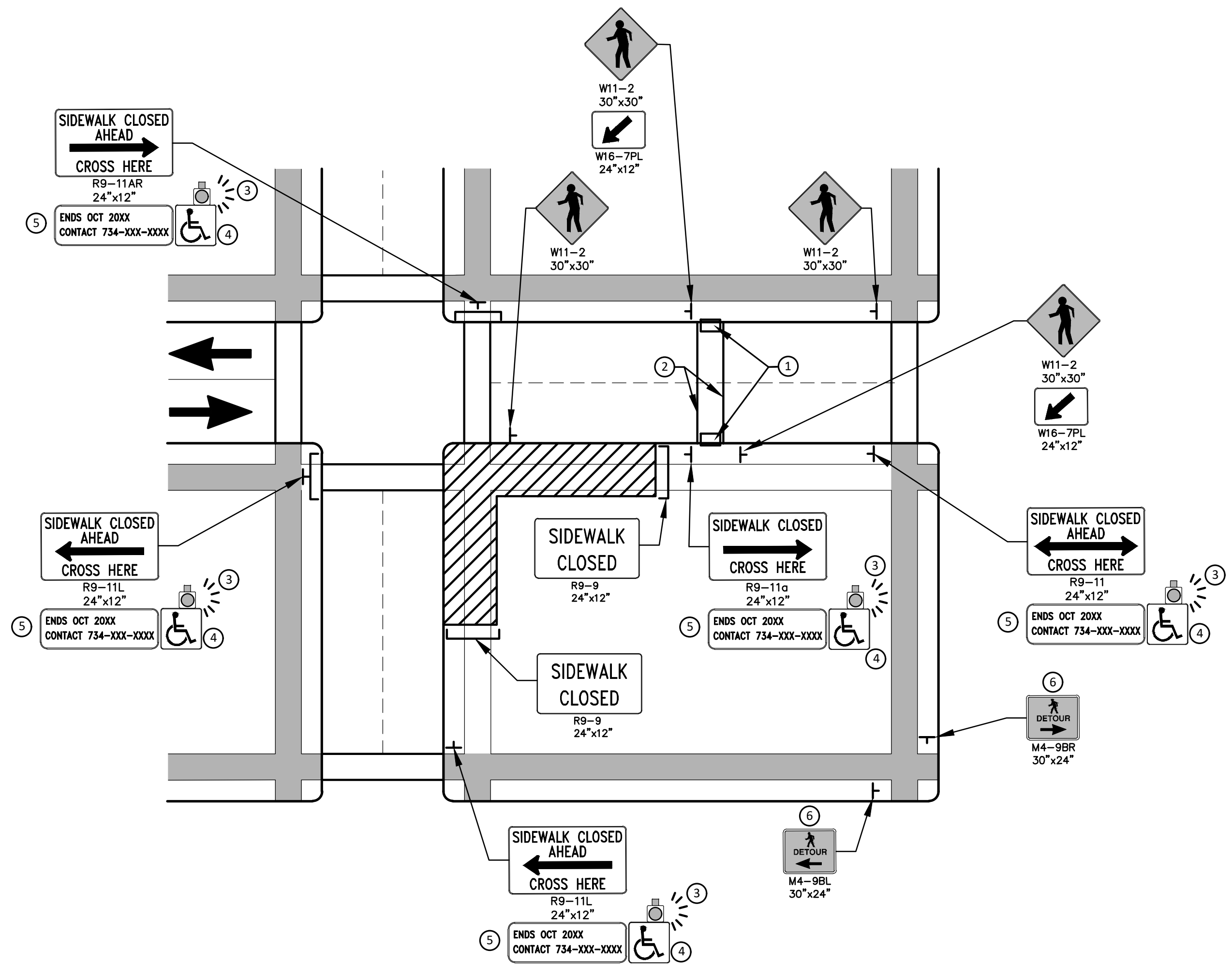
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SCALE PLAN: 1" = 4'  
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PEDESTRIAN DETOUR USING OPPOSITE SIDE OF STREET



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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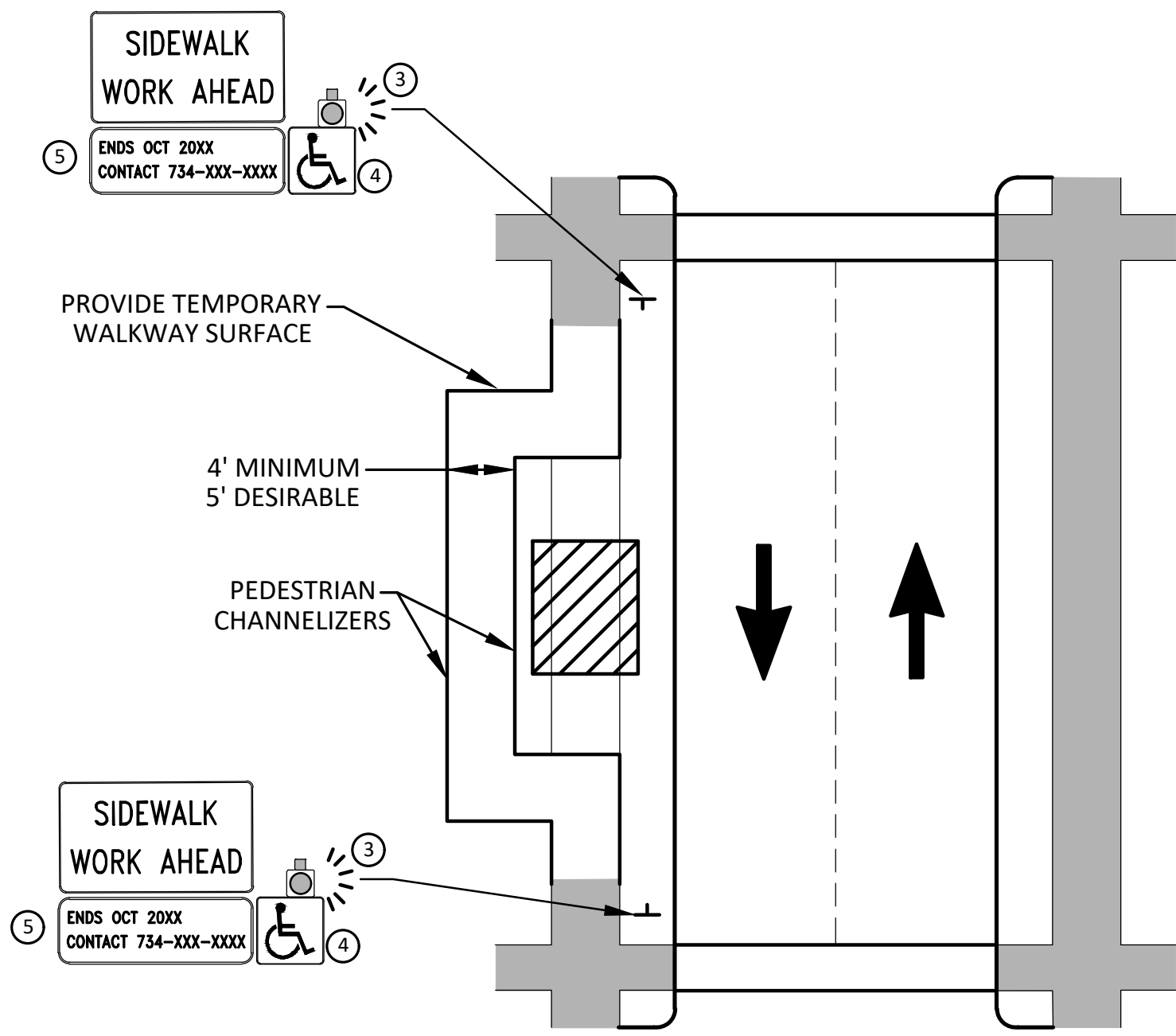
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S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS  
ALTERNATE PEDESTRIAN ROUTE (APR) DETOUR  
DRAWING No. 2020031-7

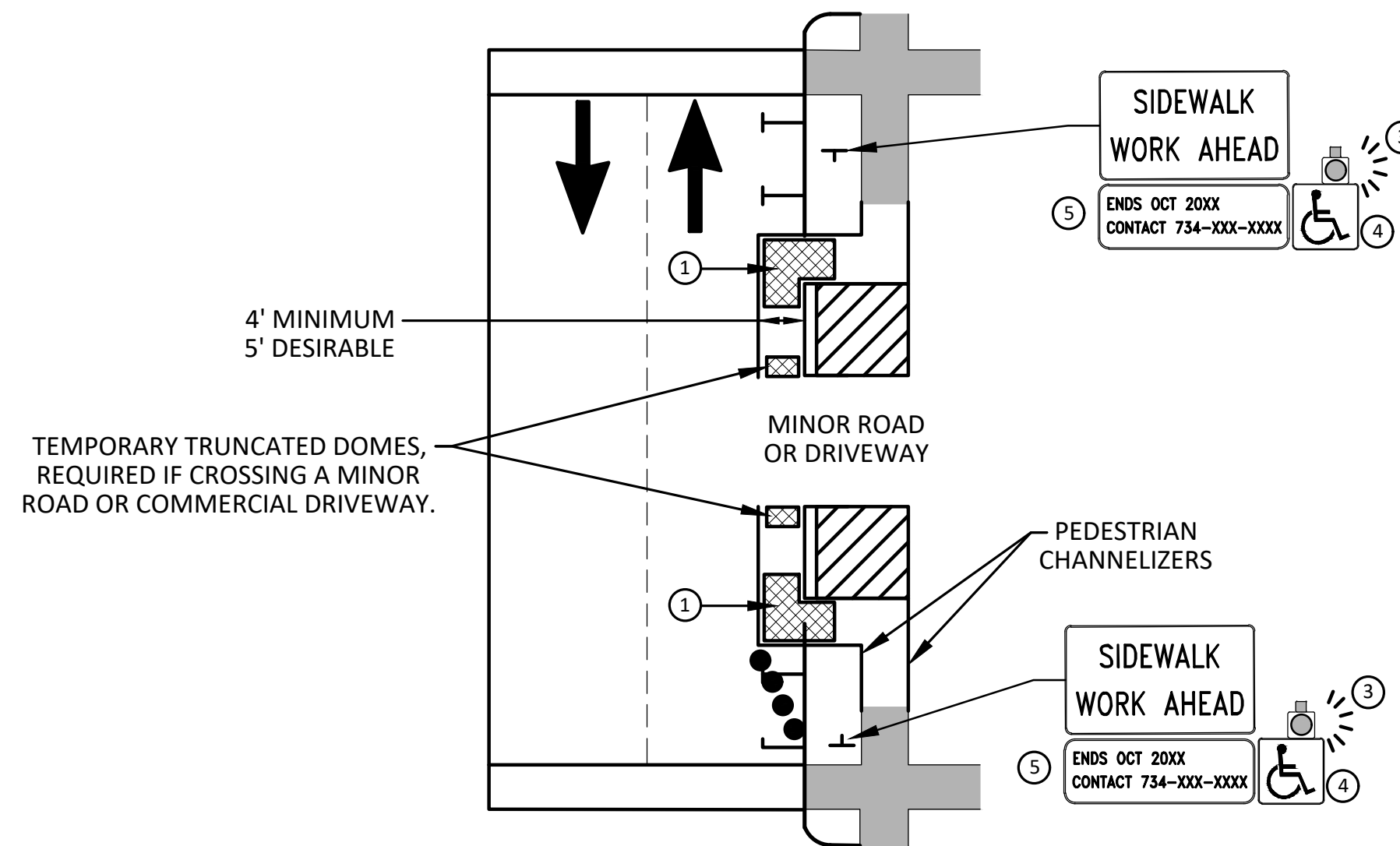


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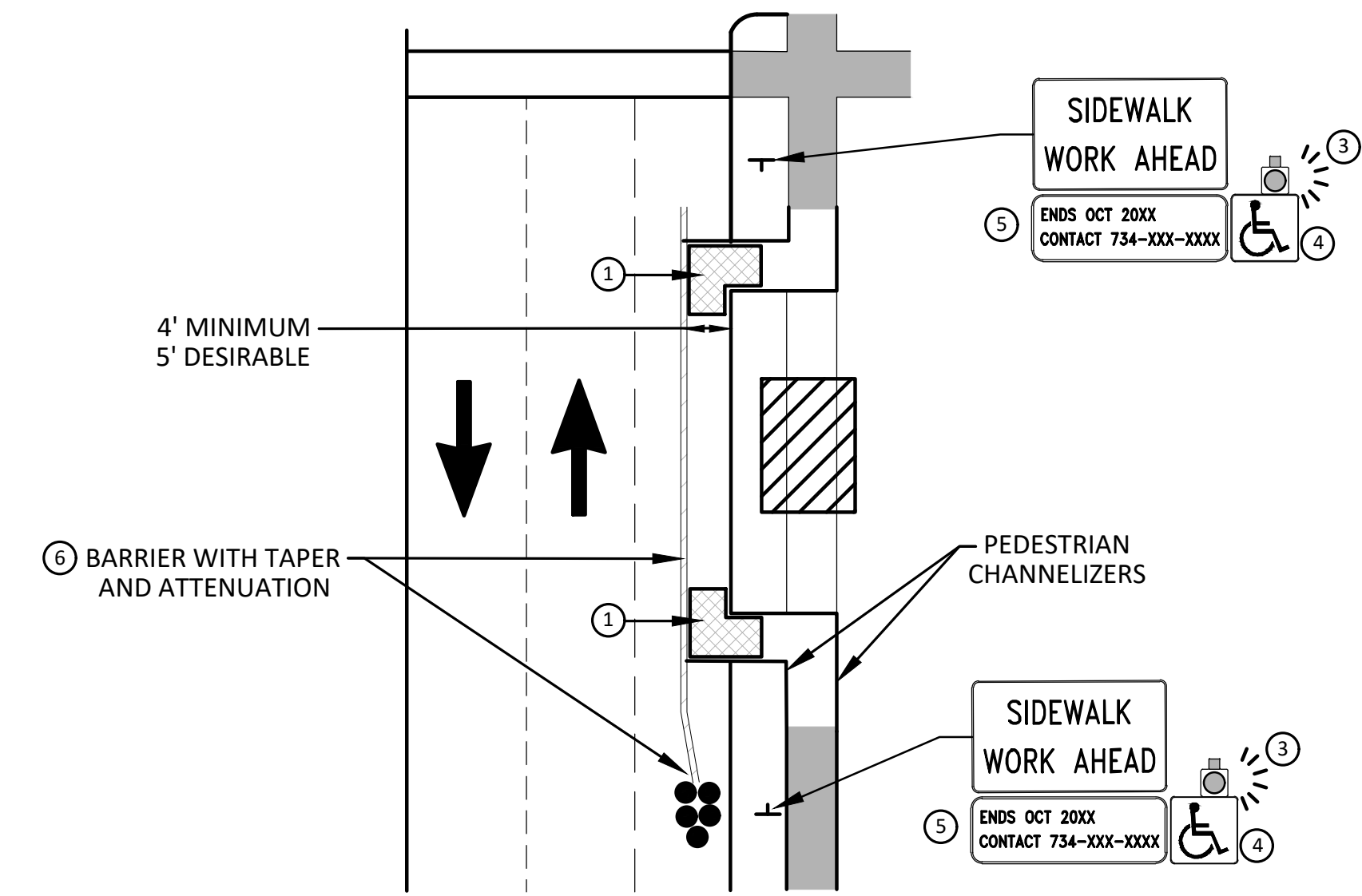


BYPASS ON ADJACENT AVAILABLE RIGHT OF WAY  
**BYPASS TYPE A**

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**

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

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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.

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 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:

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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 S 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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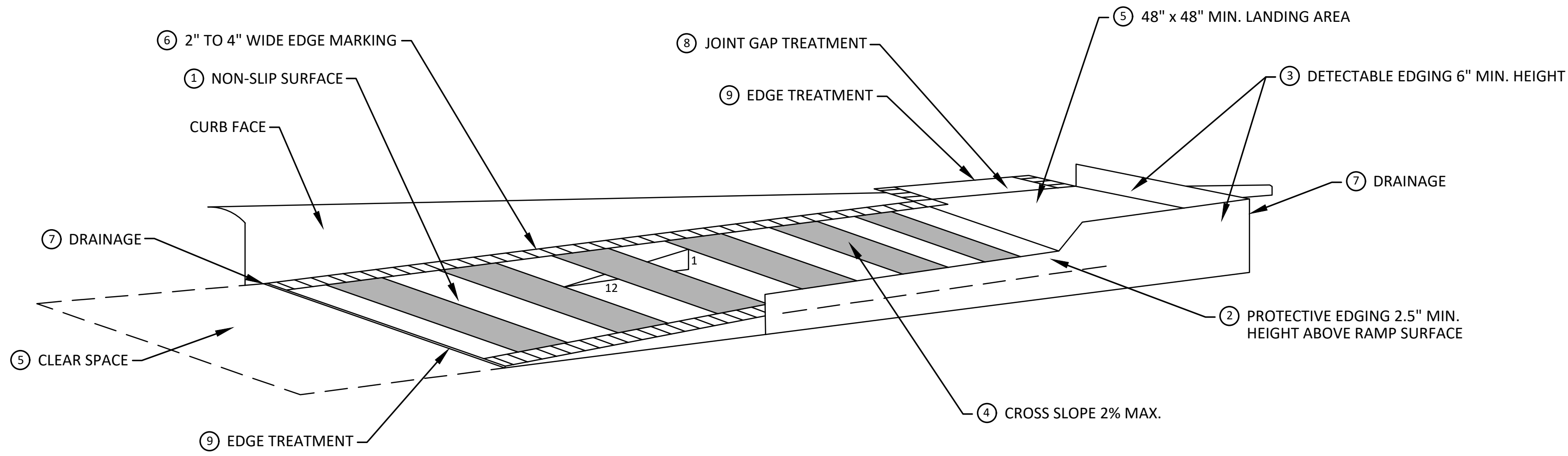
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**S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS**  
ALTERNATE PEDESTRIAN ROUTE (APR) BYPASS

SCALE: N.T.S.  
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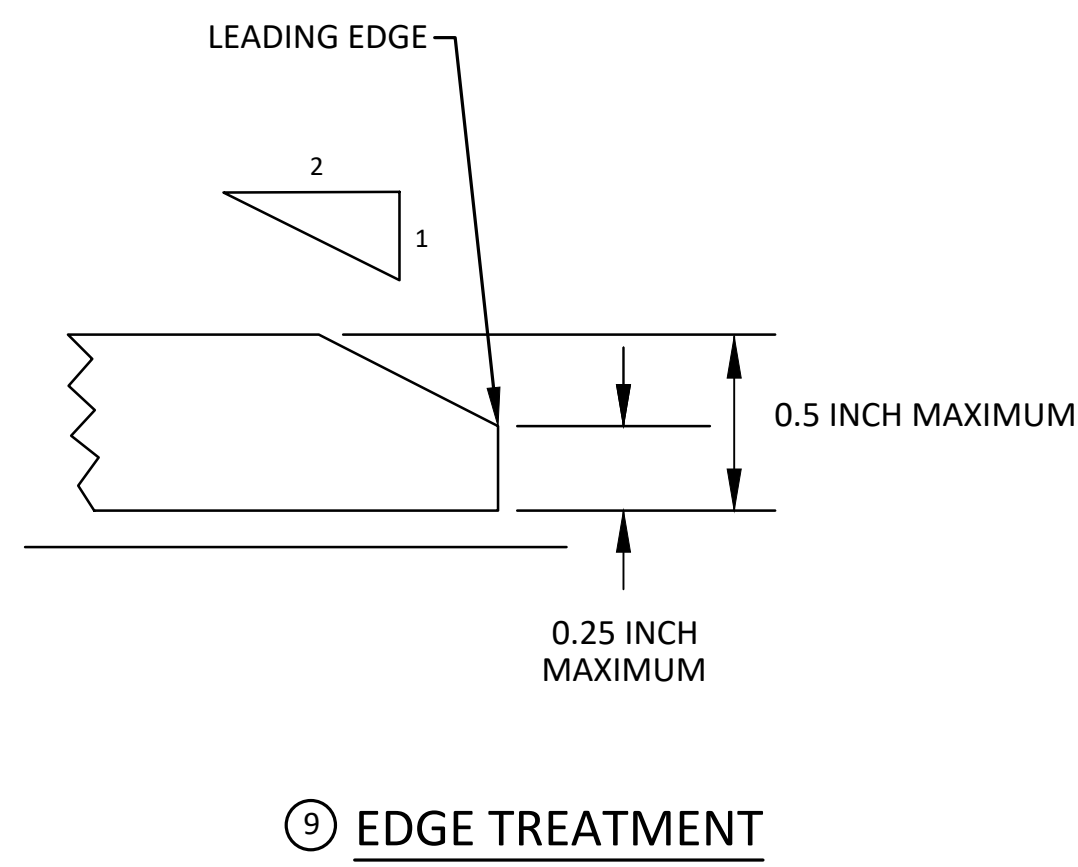
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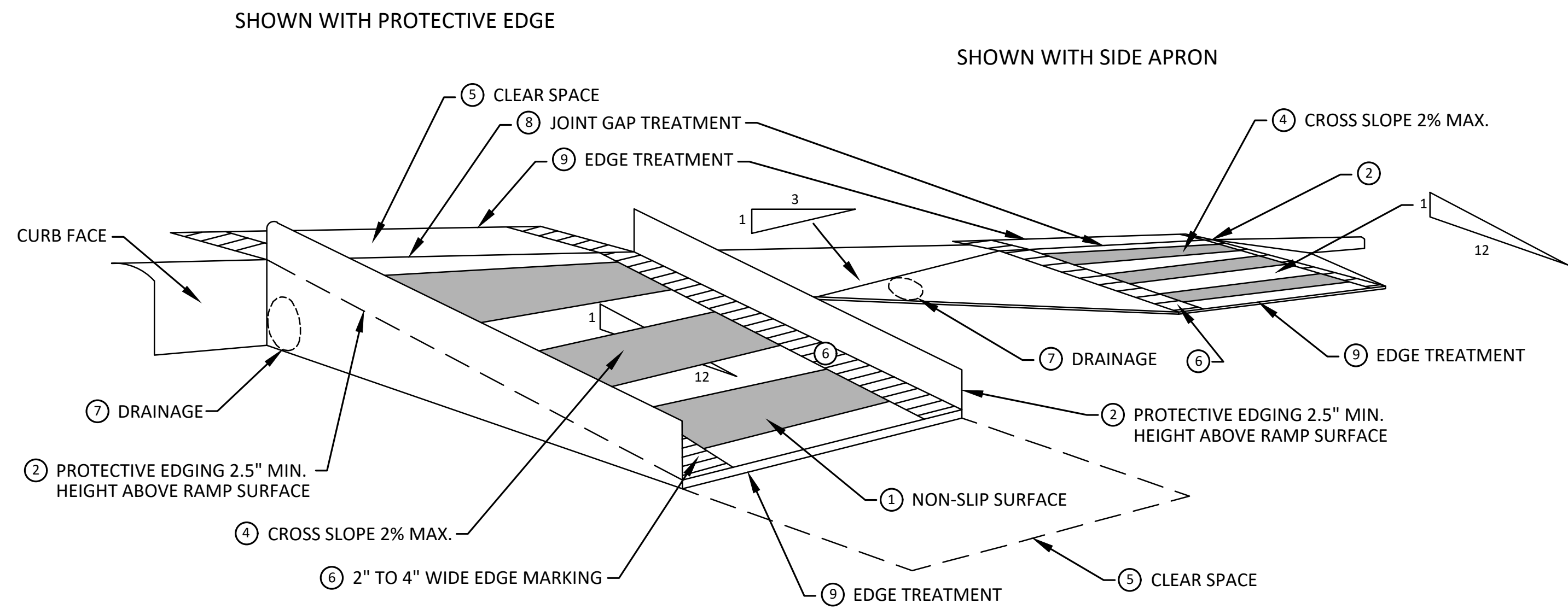


**TEMPORARY CURB RAMP  
PARALLEL TO CURB**



**SPECIFIC NOTES**

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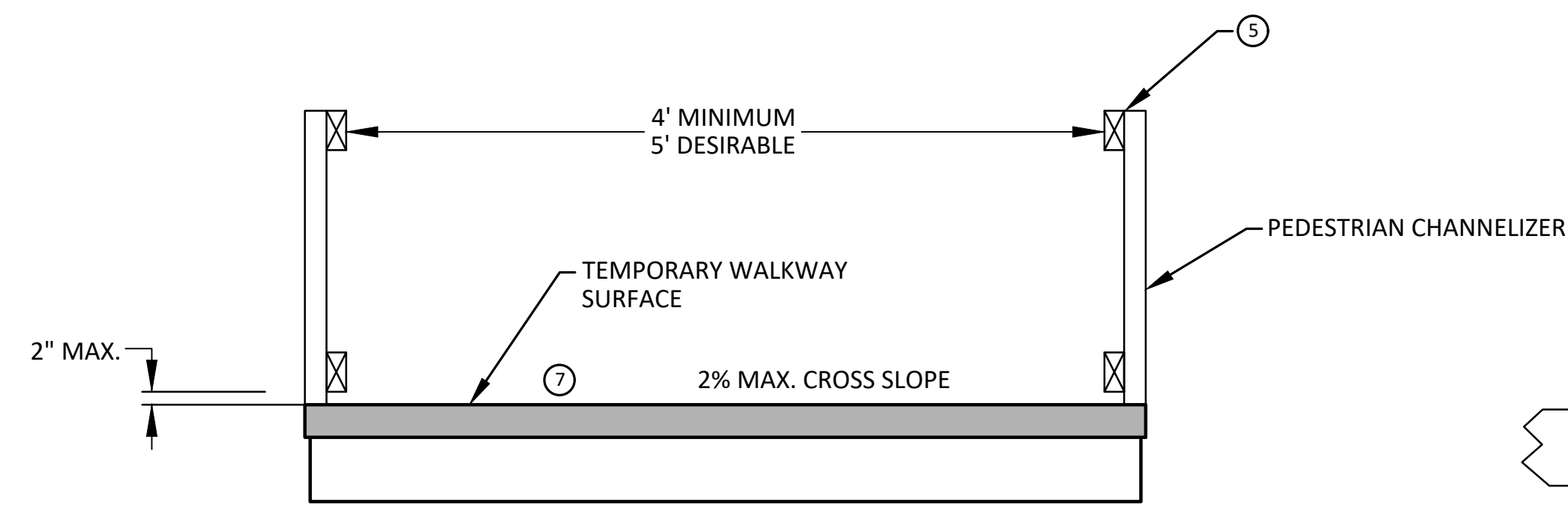
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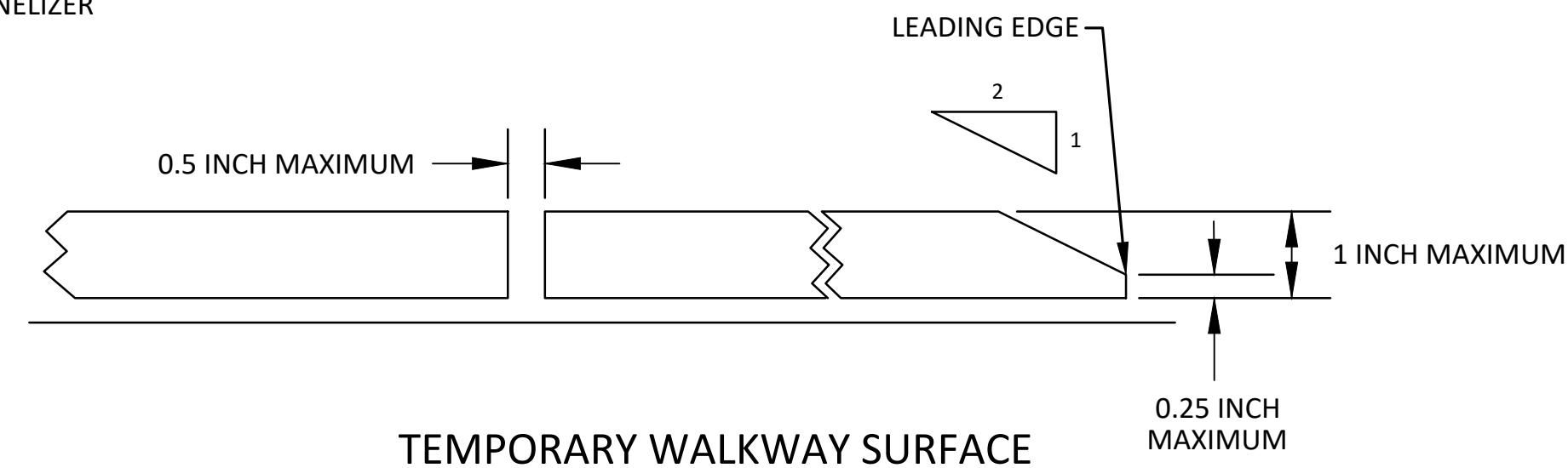
**CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING**  
S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS  
TPAR RAMPS  
SCALE: N.T.S.  
DRAWING No. 2020031-9



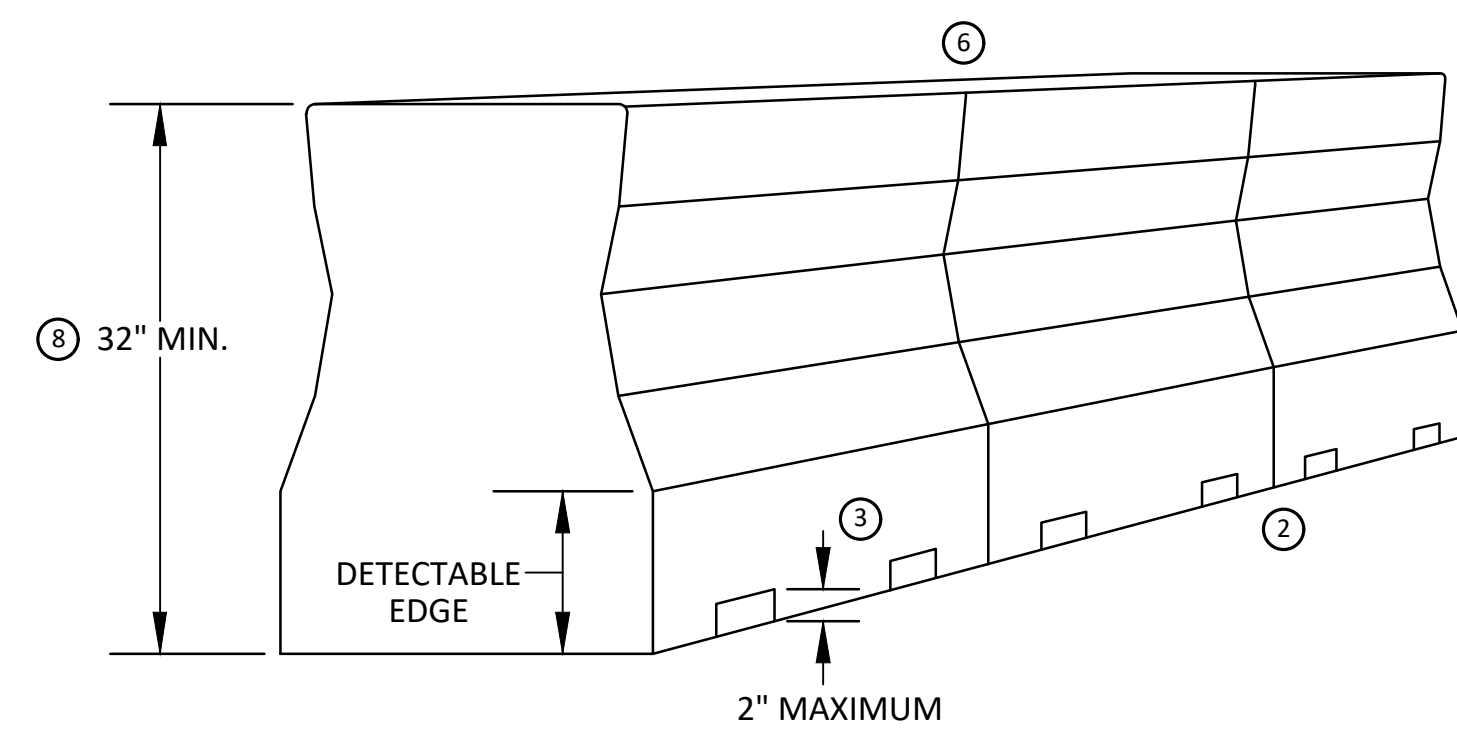
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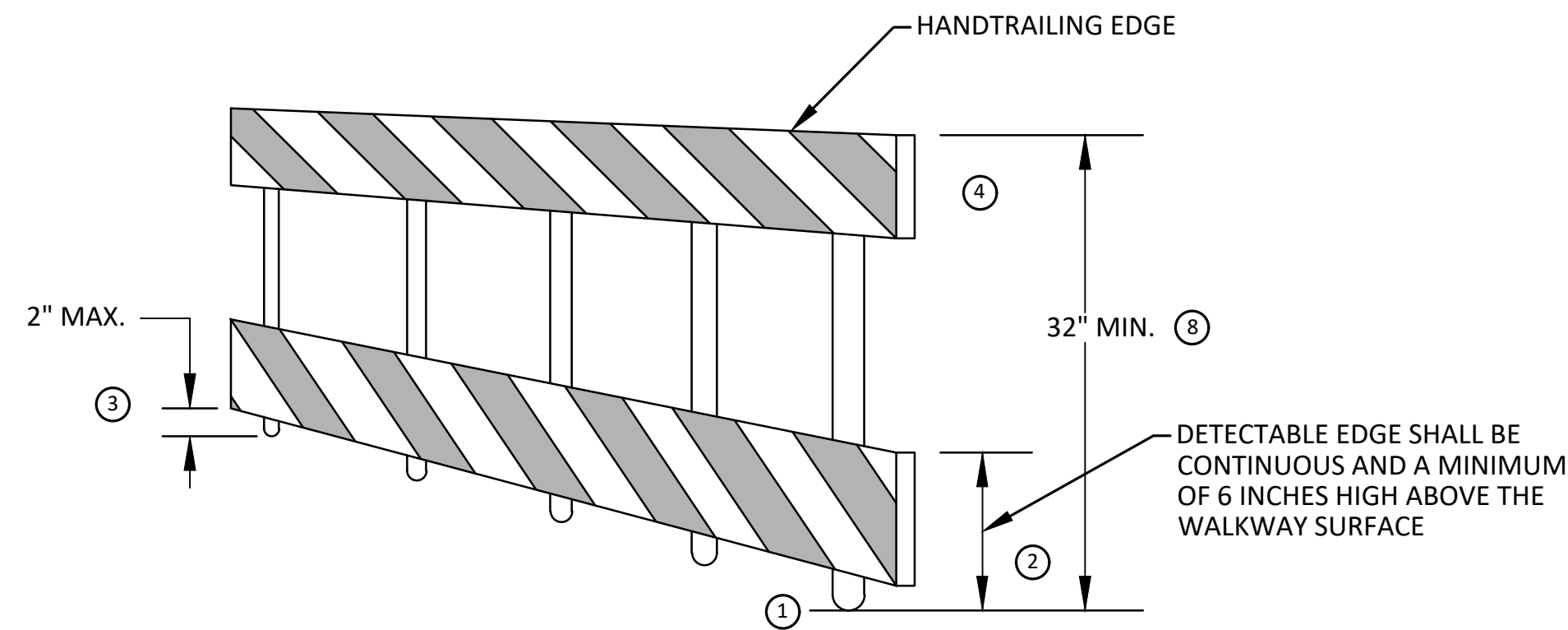
TEMPORARY PEDESTRIAN ACCESS



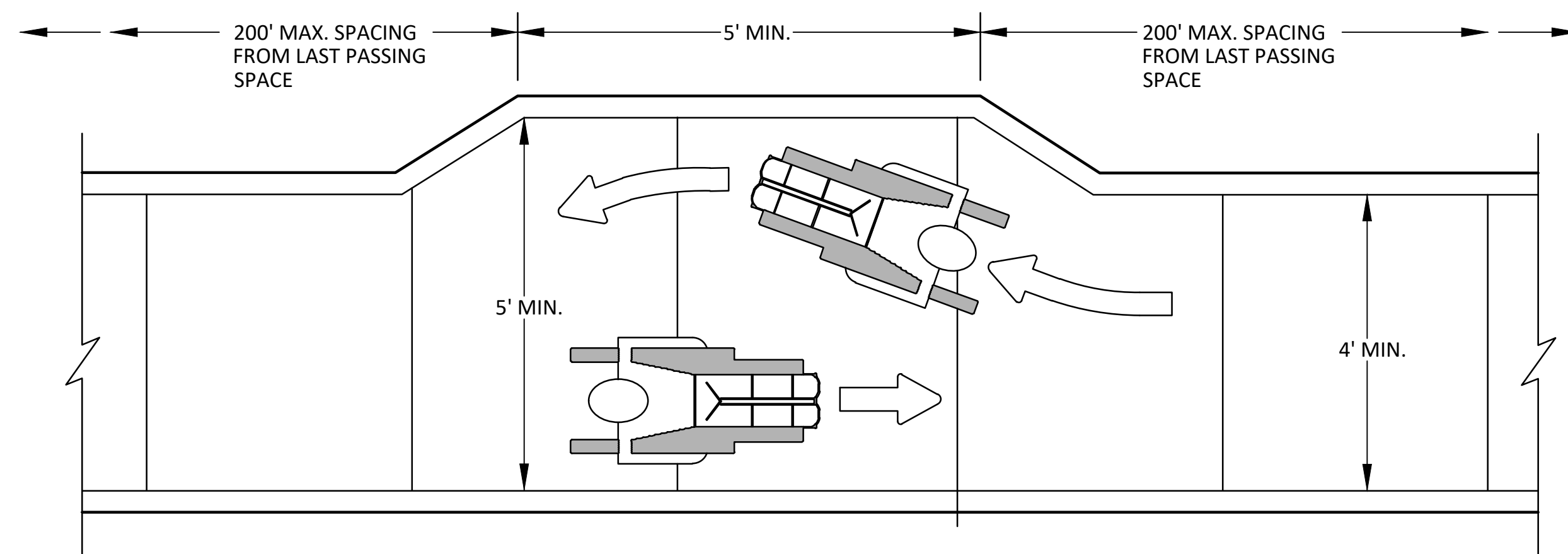
TEMPORARY WALKWAY SURFACE



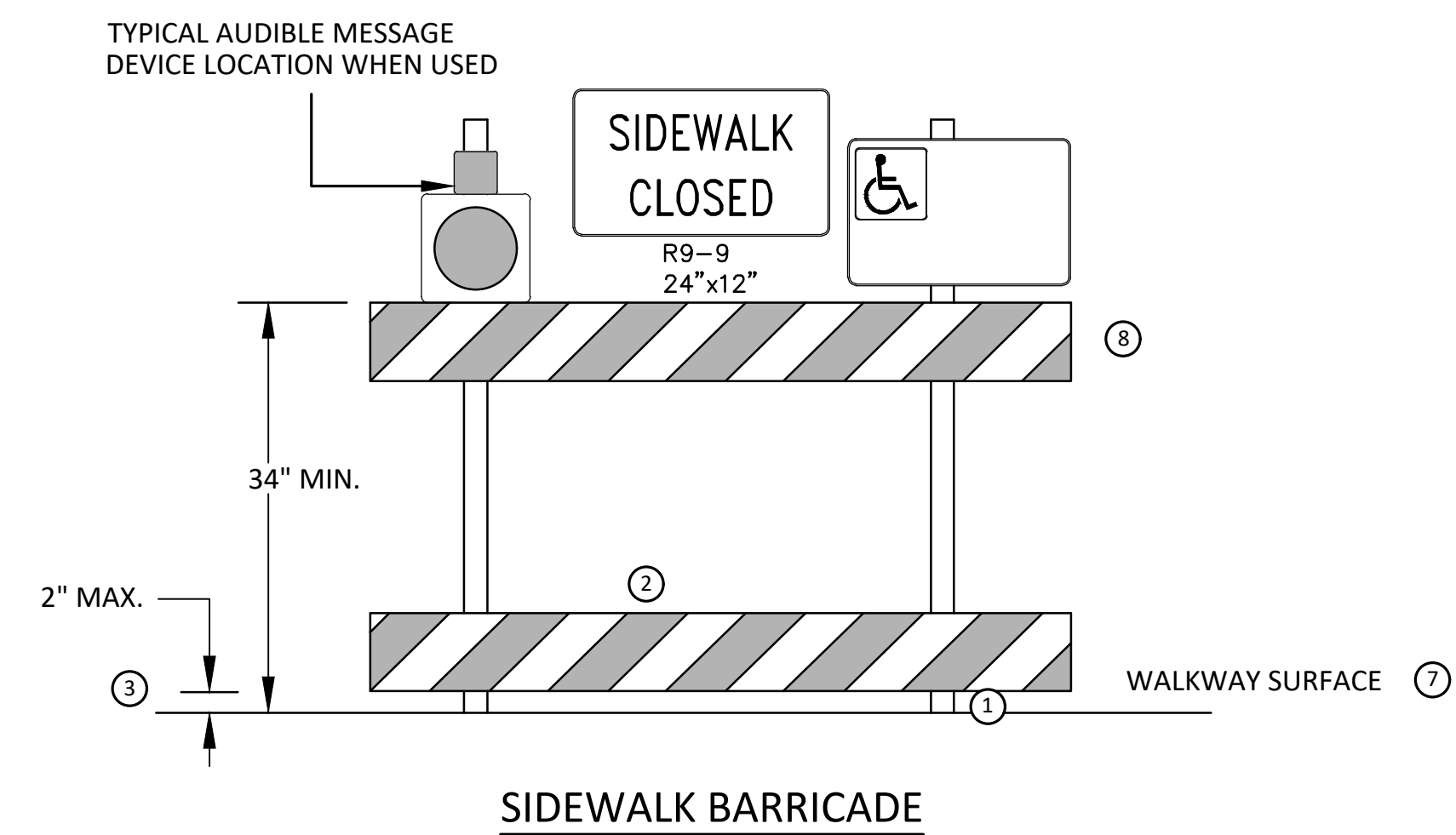
PEDESTRIAN CHANNELIZER USING A BARRIER (MINIMUM REQUIREMENTS)



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.



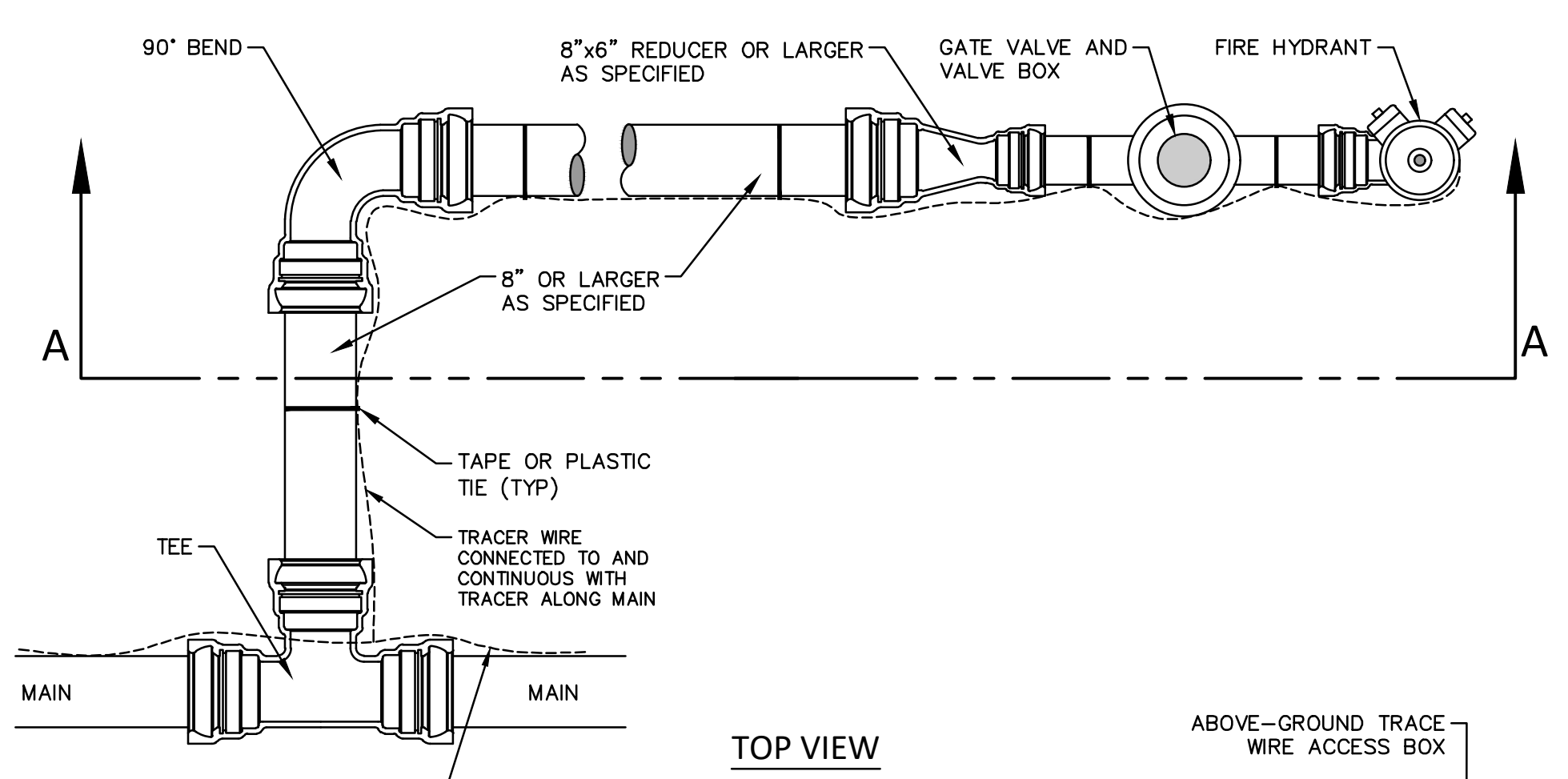
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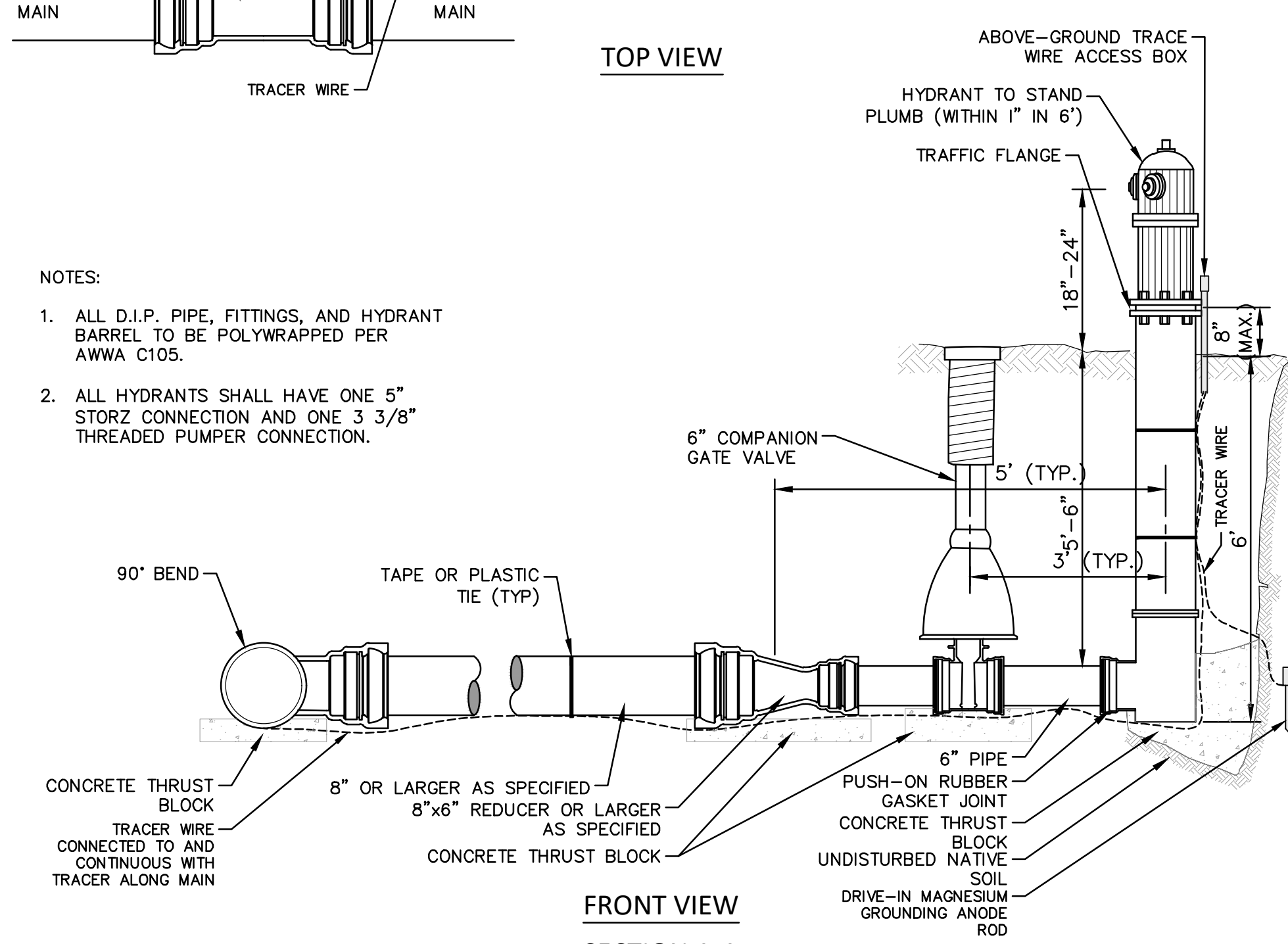
CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING  
S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS  
TPAR WALKWAY DEVICES  
DRAWING No. 2020031-10





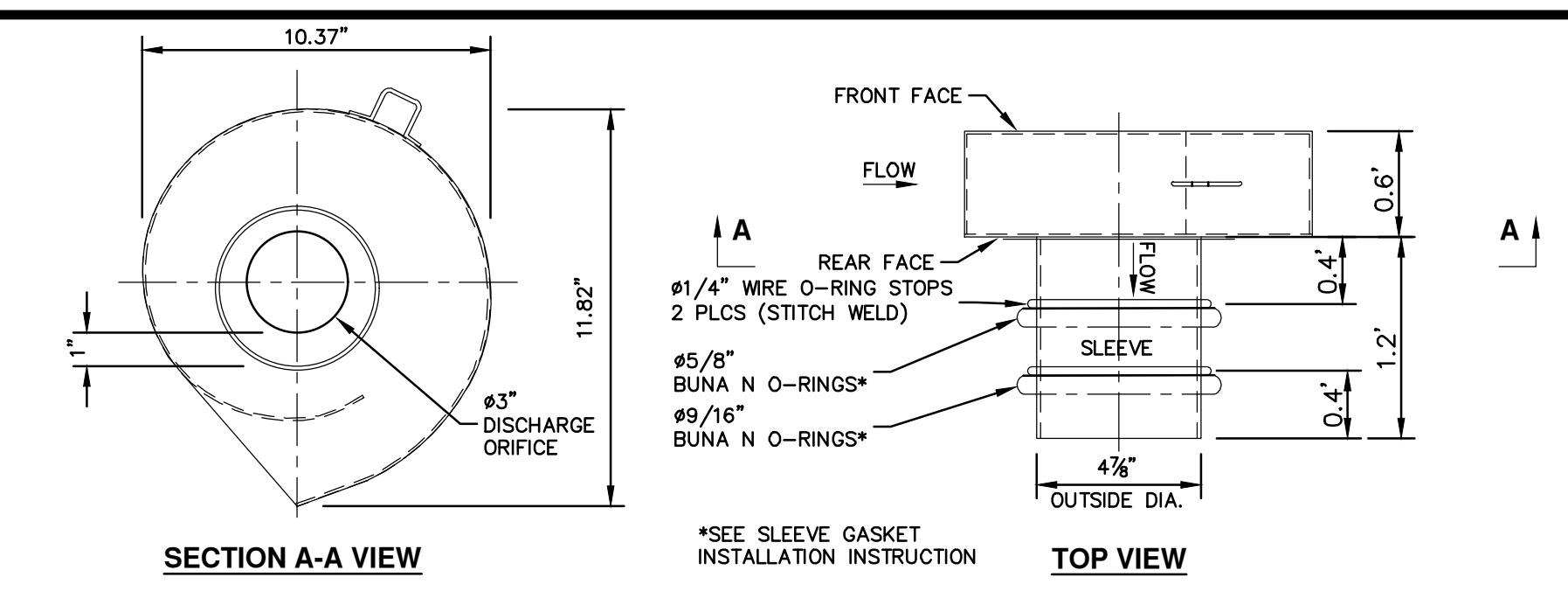
TOP VIEW

- 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

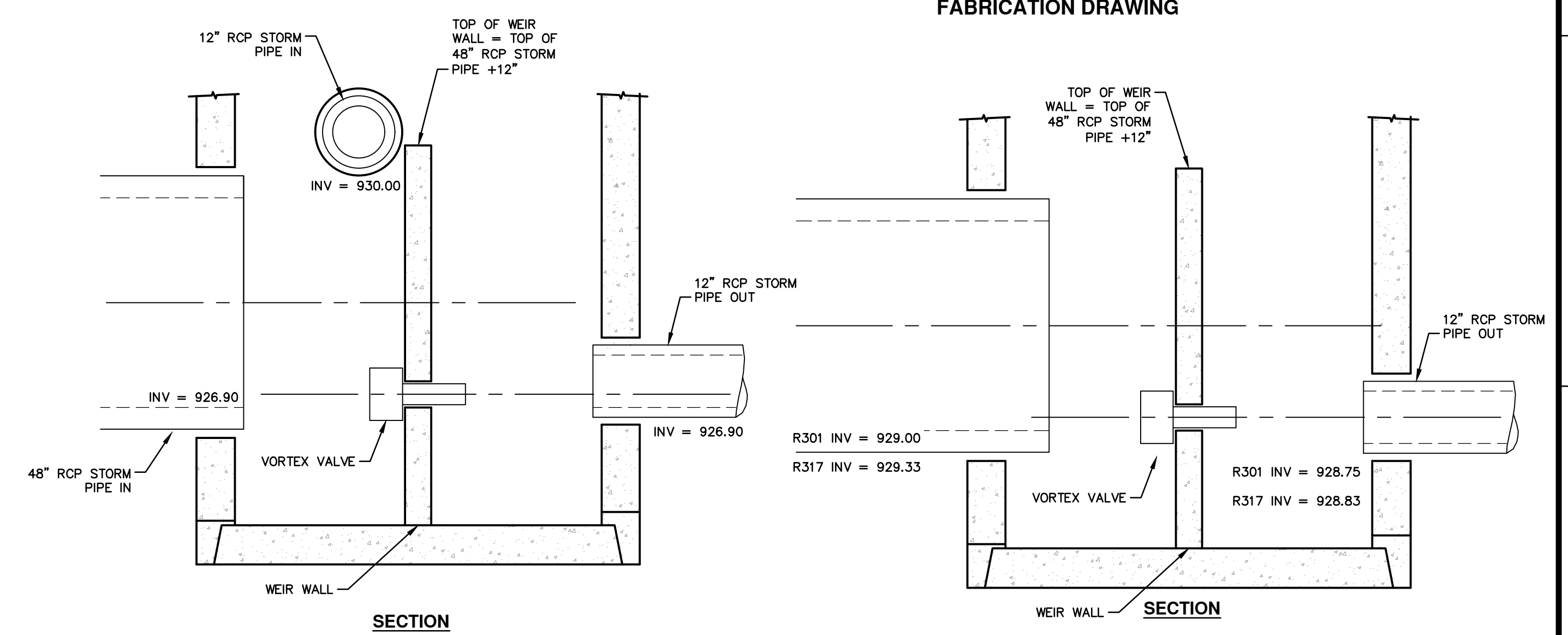


SECTION A-A VIEW

TOP VIEW

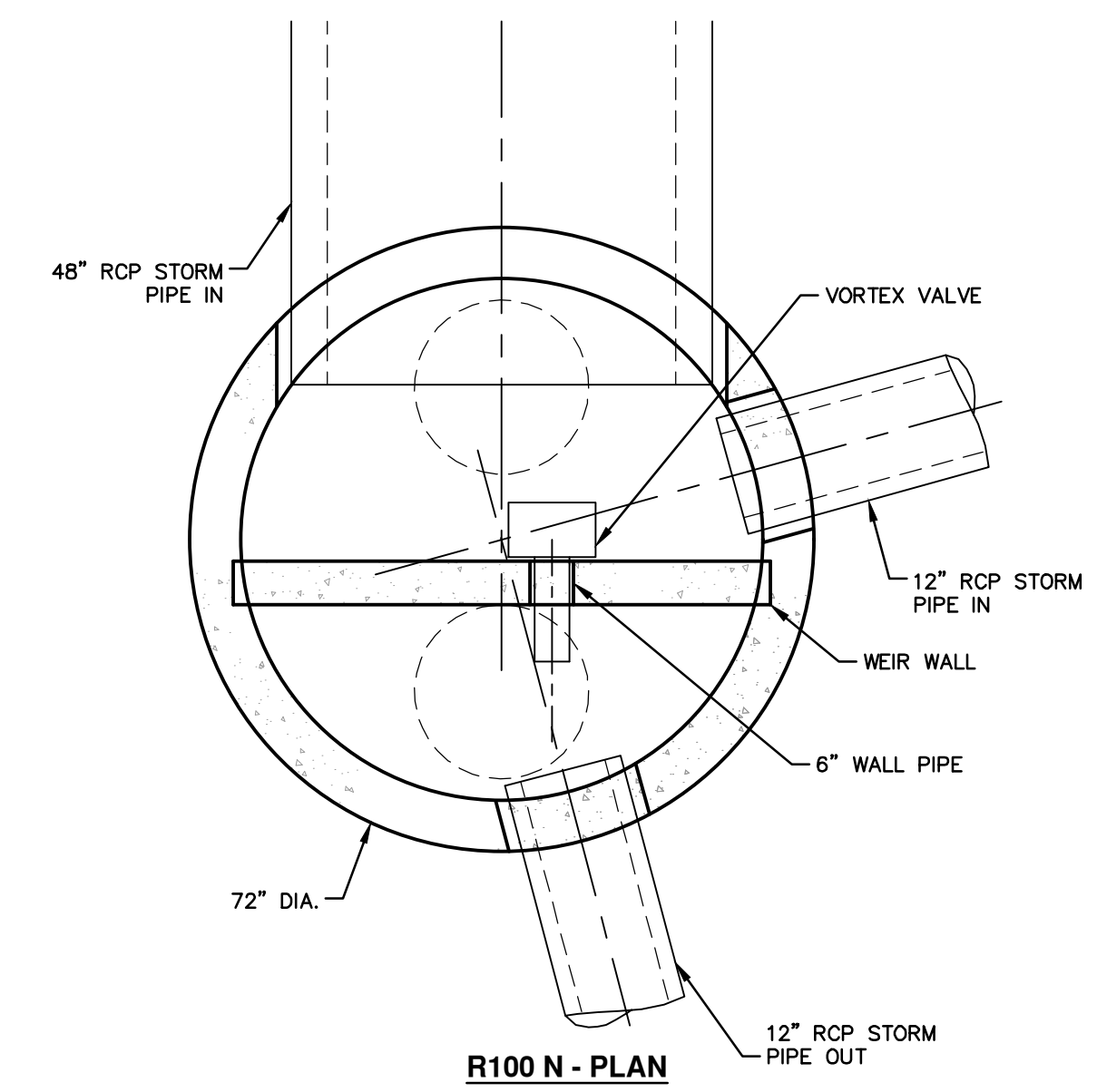
- NOTES:
1. ALL WELDS CONTINUOUS UNLESS NOTED OTHERWISE.
  2. MATERIALS:
    - 12 GA. 304L STAINLESS STEEL
    - (1) #5/8" AND (1) #9/16" BUNA N, 50 DUROMETER O-RINGS.
  3. MANUFACTURE HOUSING AND BYPASS DOOR AND ASSEMBLE PER DRAWING "2 mm FLUIDIC-AMP FABRICATION DETAILS FAT012-FA2023 HOUSING AND INLET"
  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**

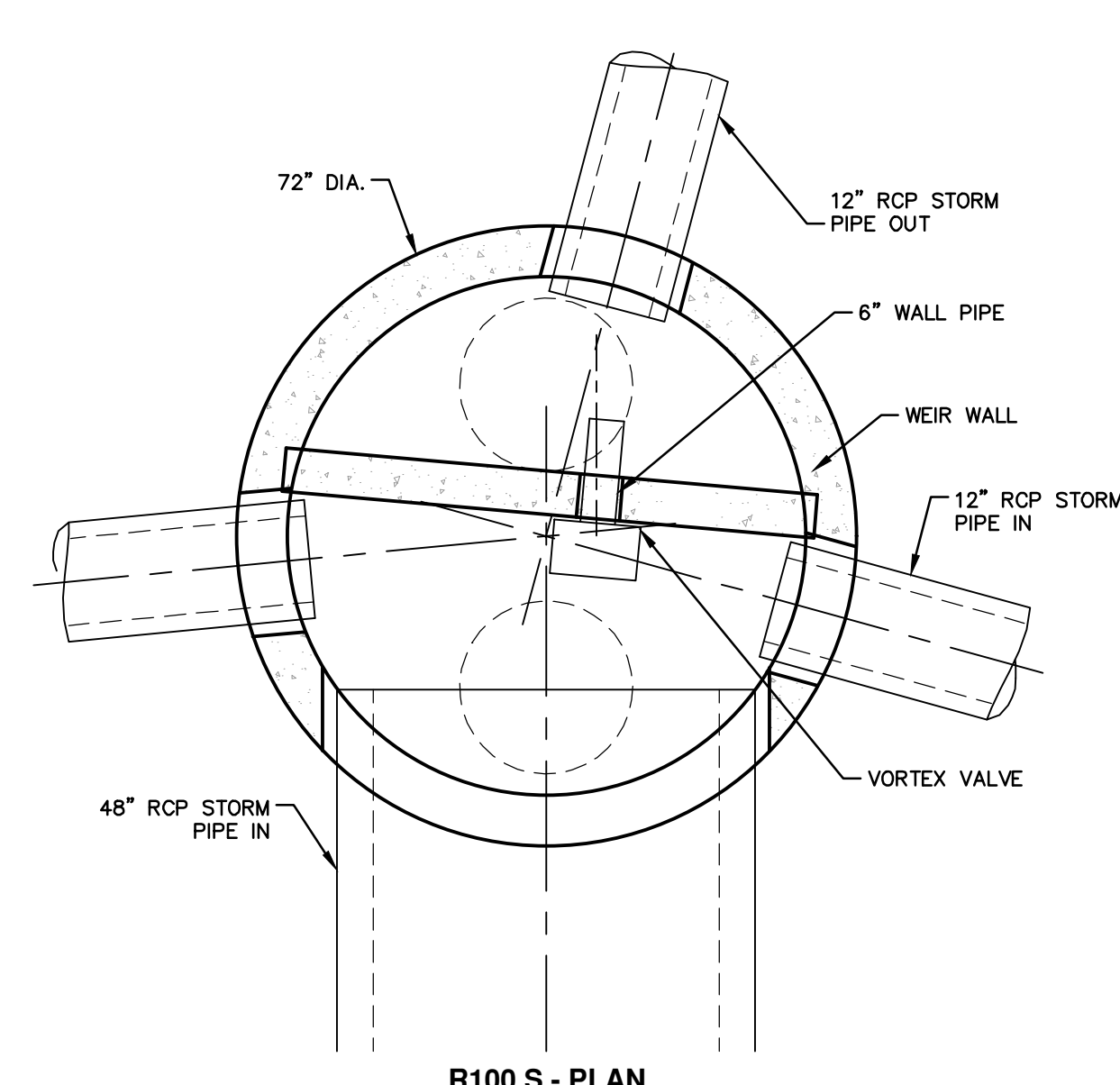


SECTION

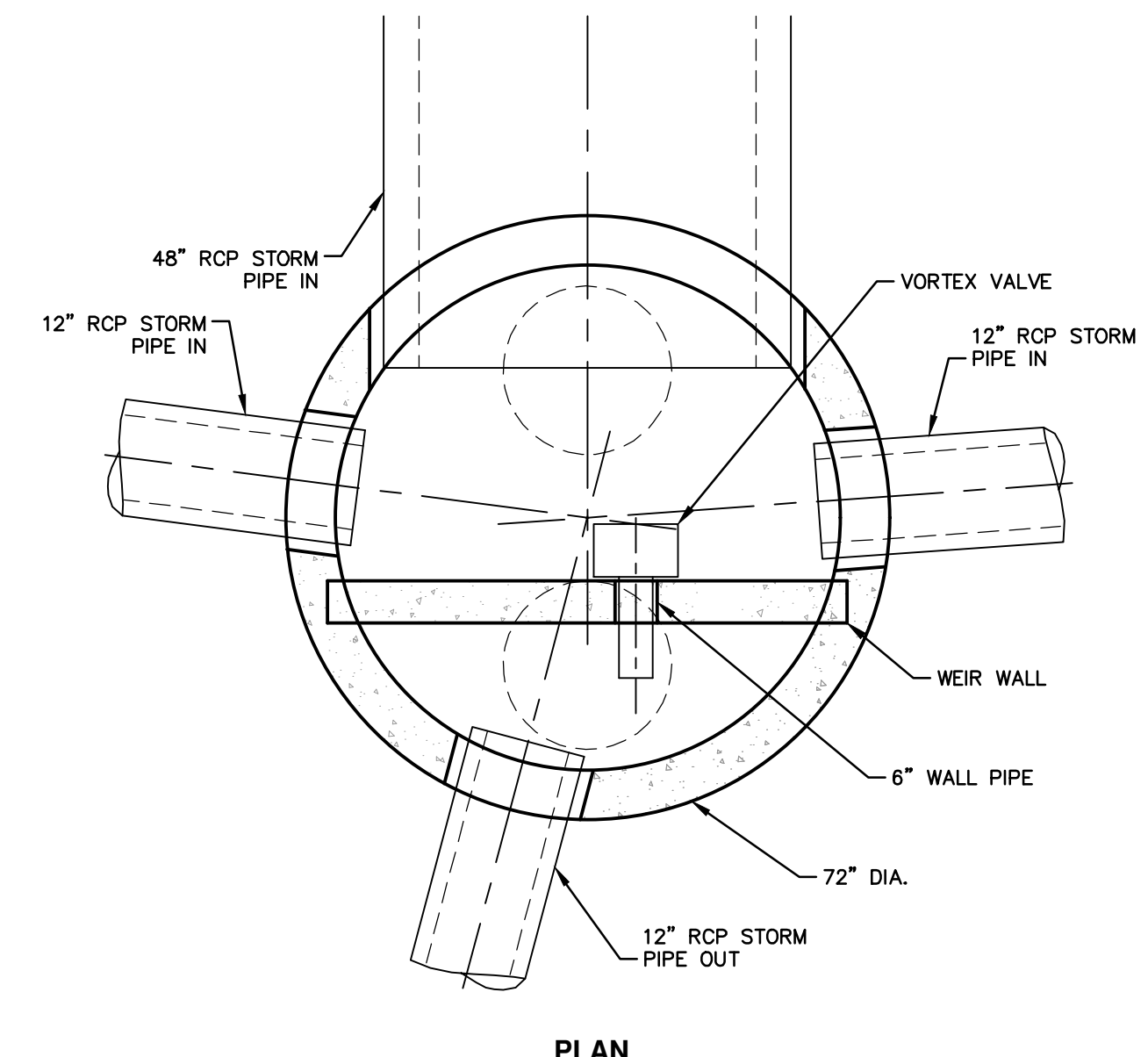
SECTION



R100 N - PLAN



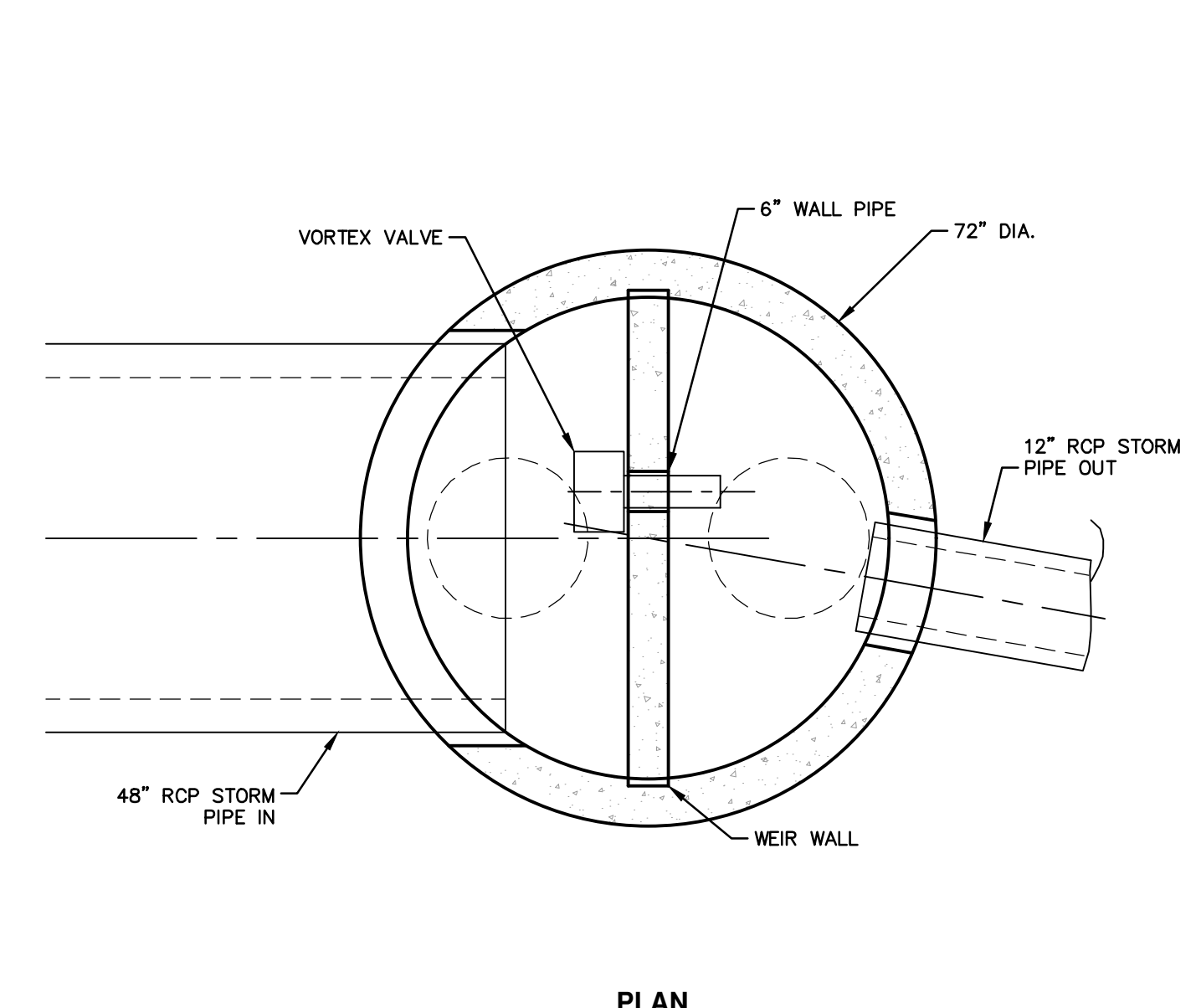
R100 S - PLAN



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 - 10:22 standard bw.stb - Plot Date: 30-Jan-24



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1-30-24	1-30-24								



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

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

MISC. DETAILS

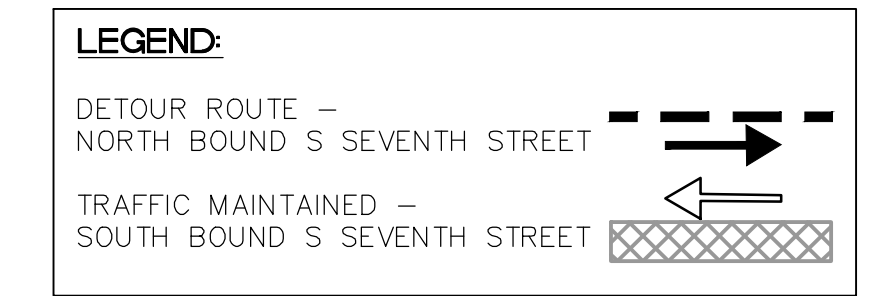
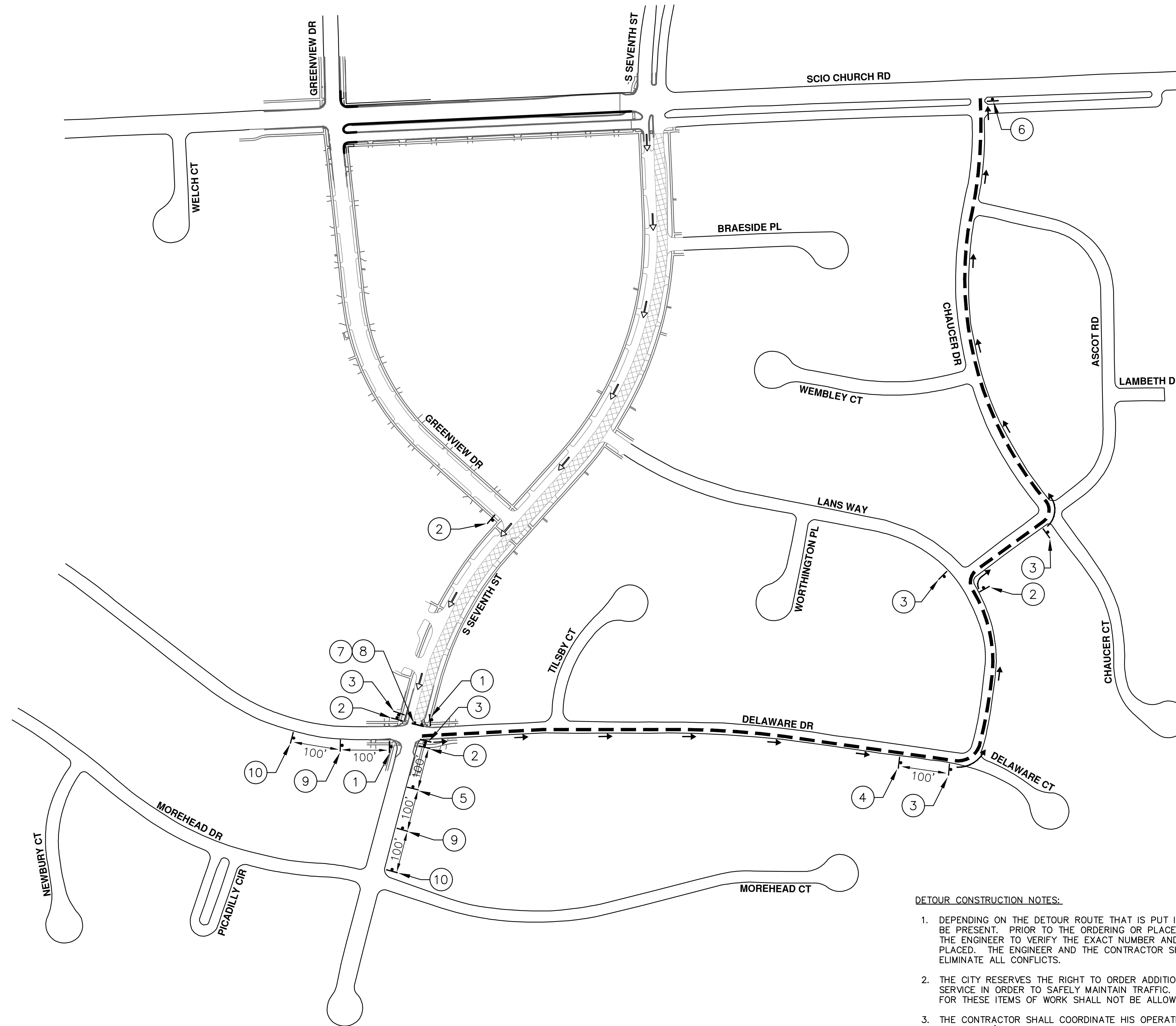
SCALE: NTS

DRAWING No. 2020031-11

SHEET No. 11 OF 92



R:\2020031 - S 7th Street\Plan Production\2020031D1r.dwg Dwg Created: 26-Jan-24 - \_a2 standard bw.stb - Plot Date: 30-Jan-24



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 DETOUR 	M4-10R 48"x18"	1
	NB S SEVENTH	D3-1
⑨ DETOUR AHEAD 	W20-2 36"x36"	2
	NB S SEVENTH	D3-1
⑩ 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		

**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

**811**  
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PUBLIC SERVICES  
301 EAST HURON STREET  
ANN ARBOR, MI 48106-8647  
ANN ARBOR 734-794-4410  
www.a2gov.org

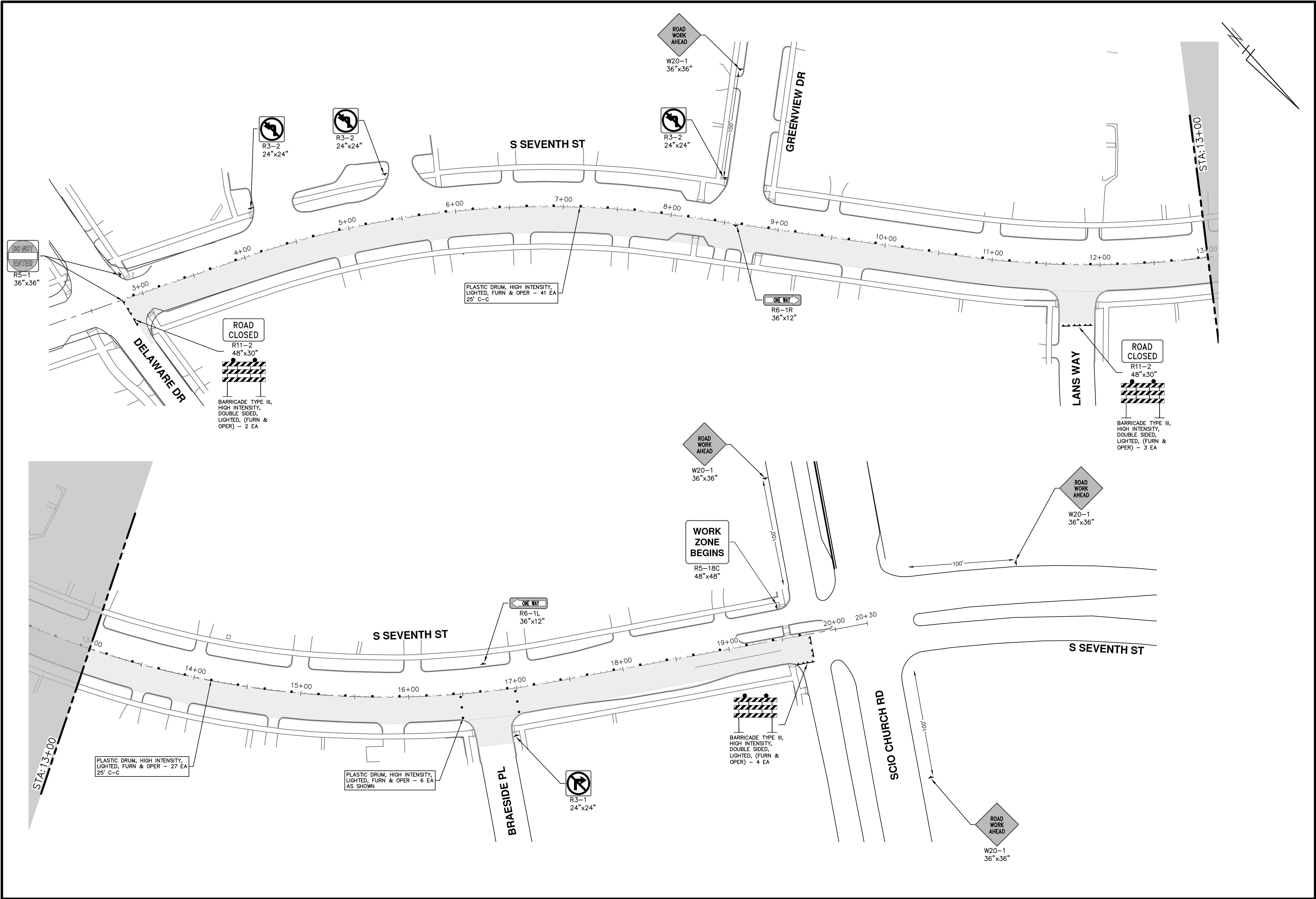
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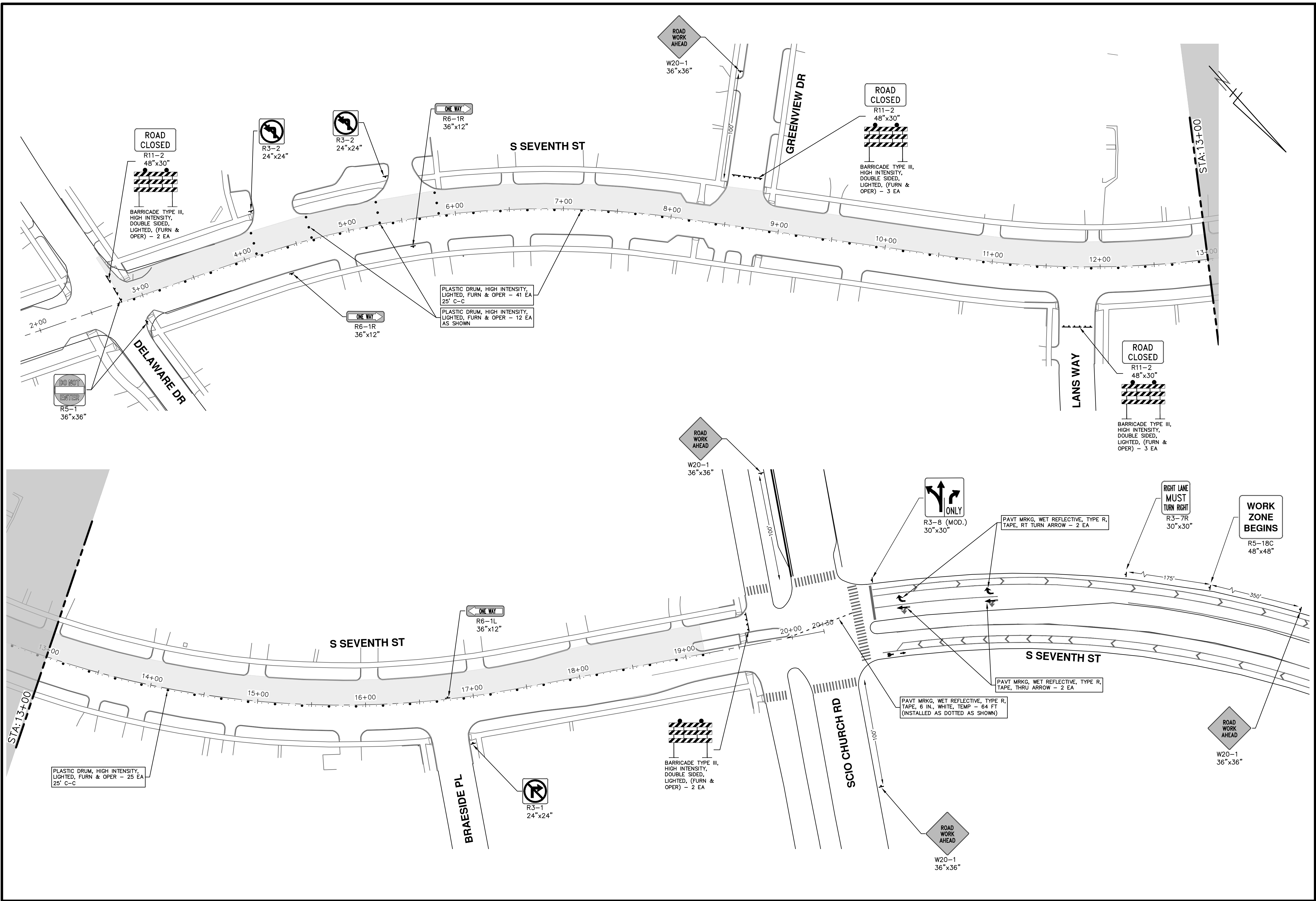
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 CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING <b>S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS</b> TRAFFIC CONTROL PHASE II STAGE I - S SEVENTH ST.		SCALE: 1" = 40' DRAWING No. <b>2020031-13</b>
SHEET No. <b>13 OF 92</b>	CITY OF ANN ARBOR PUBLIC SERVICES 301 EAST HURON STREET ANN ARBOR, MI 48106-8647 ANN ARBOR: 734.794.4410 www.a2gov.org	REV. NO.   DESCRIPTION   DATE   DRAWN   CHECKED 00   BID SET   1-30-24       01

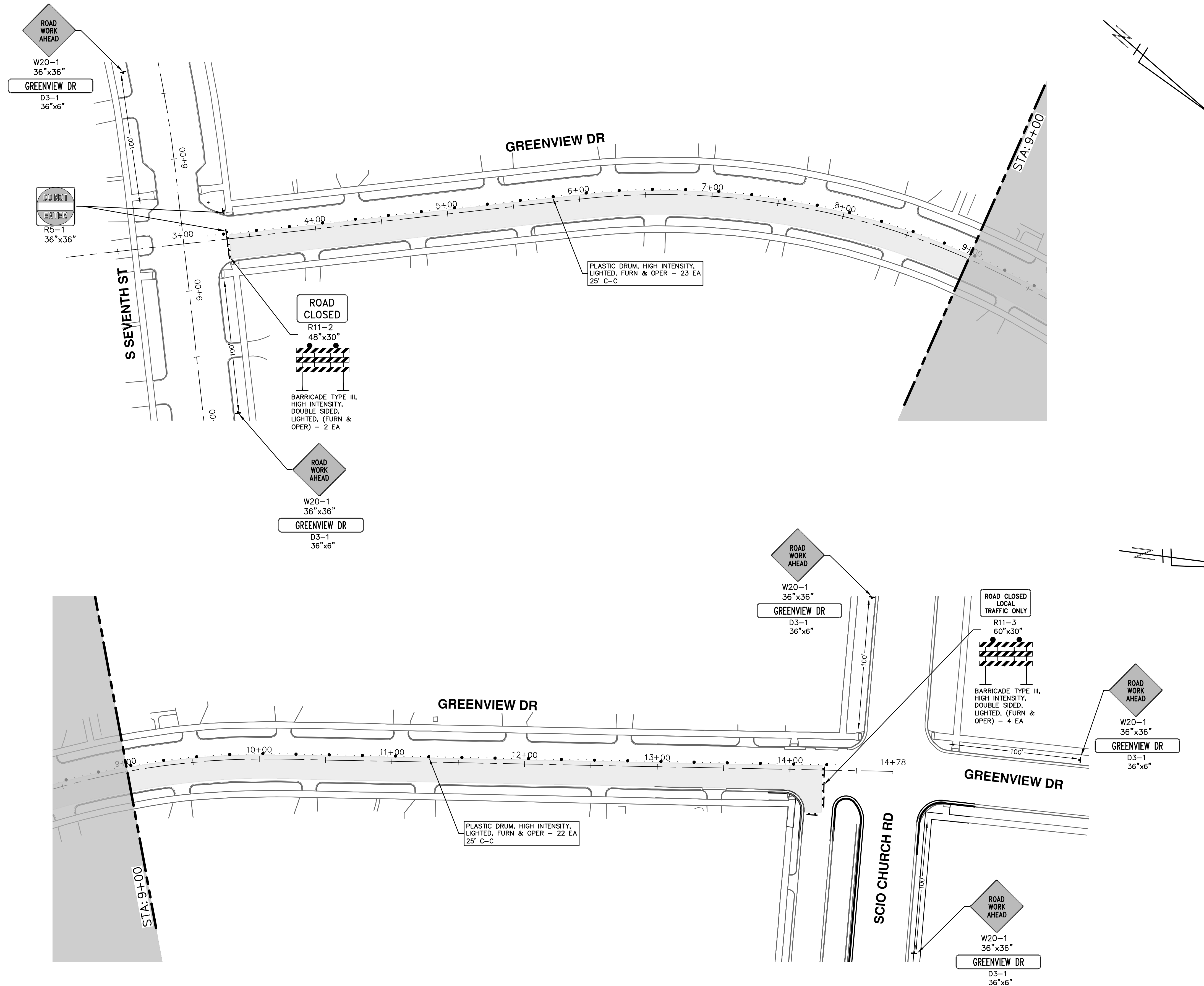


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 CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS TRAFFIC CONTROL PHASE II - S. SEVENTH ST.		SCALE: 1" = 40' DRAWING No. 2020031-14 SHEET No. 14 OF 92	
CITY OF ANN ARBOR PUBLIC SERVICES 301 EAST HURON STREET ANN ARBOR, MI 48106-0647 ANN ARBOR: 734-794-4410 WWW.A2gov.org	DESCRIPTION BID SET REV.	DATE 1-30-24	CHECKED TA DRAWN AZD

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		DRAWN
		CHECKED

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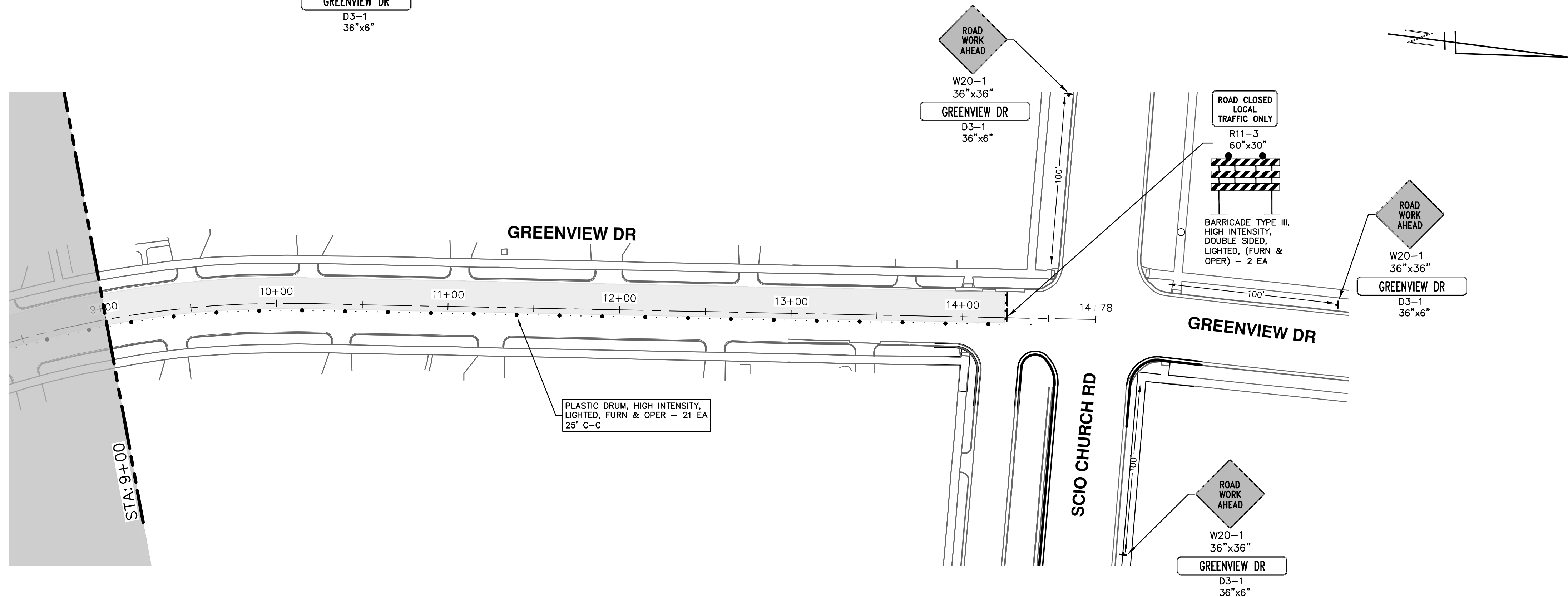
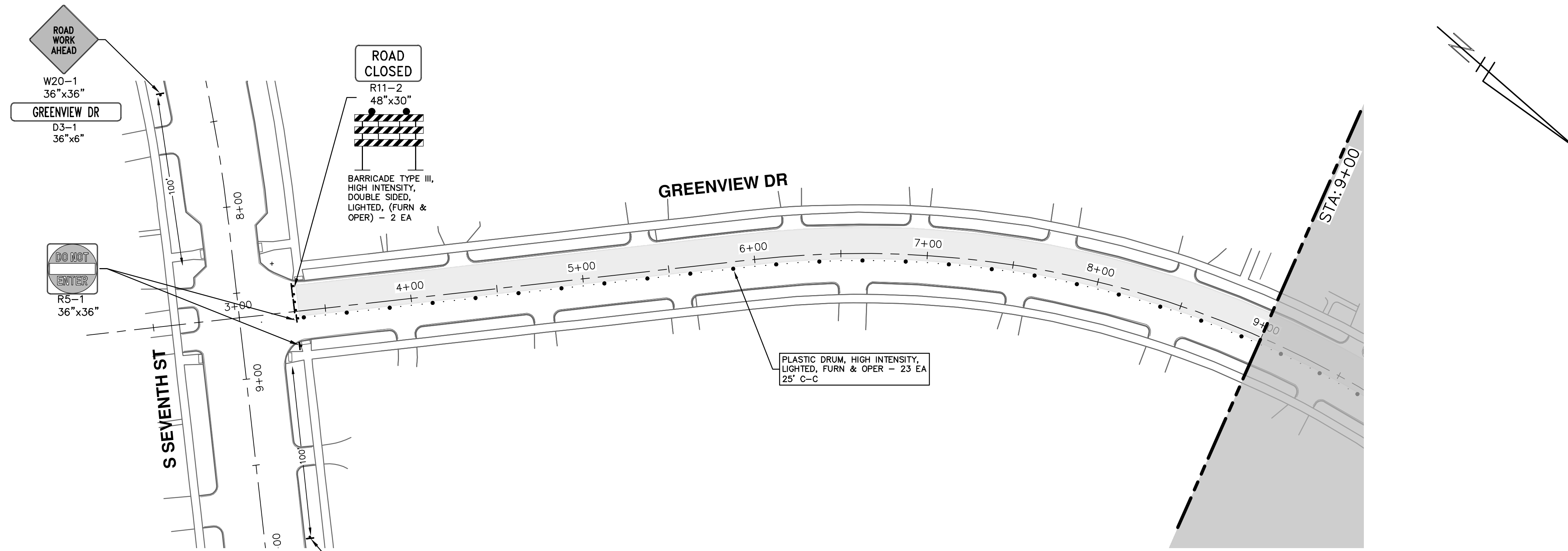
**CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING**  
**S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS**  
TRAFFIC CONTROL PHASE I (STAGE 1 - GREENVIEW DRIVE SOUTH)

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

STA. 3+00 - STA. 14+76



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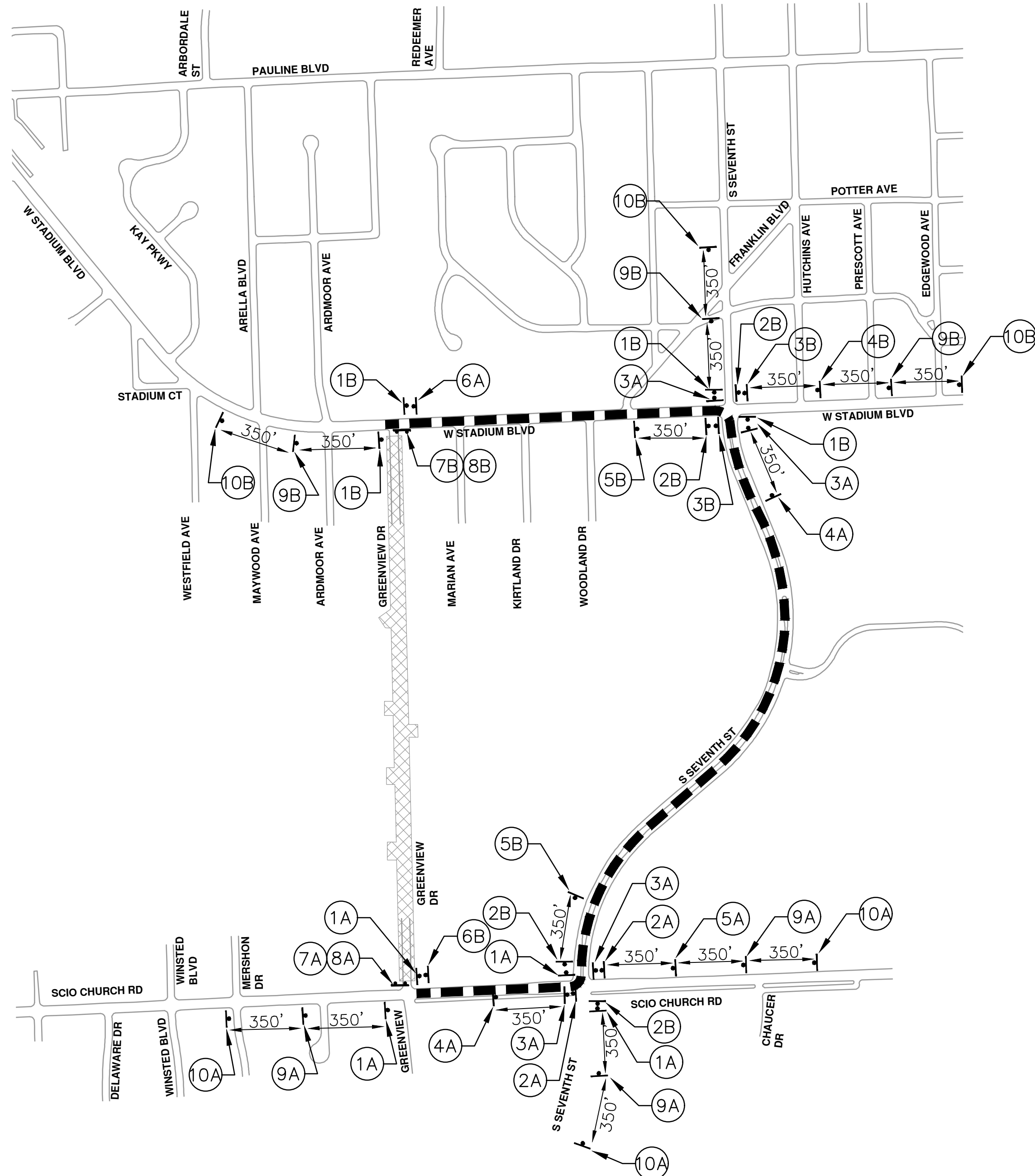
**CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING**  
**S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS**  
TRAFFIC CONTROL PHASE I / STAGE II - GREENVIEW DRIVE SOUTH

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



**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.
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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 GREENVIEW DR IMPROVEMENTS. AS DIRECTED BY THE ENGINEER, THE CONTRACTOR WILL CLOSE AND DETOUR NORTH AND SOUTH BOUND GREENVIEW DR 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.
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8. SIGNS SHALL CONFORM TO THE 2011 MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
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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 AND SOUTH BOUND GREENVIEW DRIVE DETOUR. MESSAGE BOARDS TO BE PLACED 7 DAYS PRIOR TO IMPLEMENTATION OF DETOUR.



**LEGEND:**

DETOUR ROUTE - NORTH AND SOUTH BOUND GREENVIEW DRIVE

CONSTRUCTION AREA

NORTH BOUND GREENVIEW DR			
SIGN	NUMBER	QUANTITY	
1A	NB GREENVIEW	D3-1	4
	DETOUR	M4-9S 30"x24"	4
2A	NB GREENVIEW	D3-1	2
	DETOUR	M4-9R 30"x24"	2
3A	NB GREENVIEW	D3-1	4
	DETOUR	M4-9L 30"x24"	4
4A	NB GREENVIEW	D3-1	2
	DETOUR	M4-9L (MOD) 30"x24"	2
5A	NB GREENVIEW	D3-1	1
	DETOUR	M4-9R (MOD) 30"x24"	1
6A	NB GREENVIEW	D3-1	1
	END DETOUR	M4-8A 24"x18"	1
7A	ROAD CLOSED TO THRU TRAFFIC	R11-4 60"x30"	1
8A	DETOUR	M4-10R 48"x18"	1
	NB GREENVIEW	D3-1	3
9A	DETOUR AHEAD	W20-2 36"x36"	3
	NB GREENVIEW	D3-1	3
10A	ROAD WORK AHEAD	W20-1 36"x36"	3
	BARRICADE, TYPE III, HIGH INTENSITY, DOUBLE SIDED, LIGHTED, FURN & OPER - 2 EACH		
SIGN, PORTABLE, CHANGEABLE MESSAGE, FURN & OPER NTCIP-COMPLIANT - 2 EACH			
VERIFY EXACT QUANTITY AND LOCATION WITH ENGINEER PRIOR TO ORDERING			


SOUTH BOUND GREENVIEW DR			
SIGN	NUMBER	QUANTITY	
1B	SB GREENVIEW	D3-1	4
	DETOUR	M4-9S 30"x24"	4
2B	SB GREENVIEW	D3-1	4
	DETOUR	M4-9R 30"x24"	4
3B	SB GREENVIEW	D3-1	2
	DETOUR	M4-9L 30"x24"	2
4B	SB GREENVIEW	D3-1	1
	DETOUR	M4-9L (MOD) 30"x24"	1
5B	SB GREENVIEW	D3-1	2
	DETOUR	M4-9R (MOD) 30"x24"	2
6B	SB GREENVIEW	D3-1	1
	END DETOUR	M4-8A 24"x18"	1
7B	ROAD CLOSED TO THRU TRAFFIC	R11-4 60"x30"	1
8B	DETOUR	M4-10L 48"x18"	1
	SB GREENVIEW	D3-1	3
9B	DETOUR AHEAD	W20-2 36"x36"	3
	SB GREENVIEW	D3-1	3
10B	ROAD WORK AHEAD	W20-1 36"x36"	3
	BARRICADE, TYPE III, HIGH INTENSITY, DOUBLE SIDED, LIGHTED, FURN & OPER - 2 EACH		
SIGN, PORTABLE, CHANGEABLE MESSAGE, FURN & OPER NTCIP-COMPLIANT - 2 EACH			
VERIFY EXACT QUANTITY AND LOCATION WITH ENGINEER PRIOR TO ORDERING			

PRCMS MESSAGE PHASING		
PRIOR TO CONSTRUCTION	DURING CONSTRUCTION	DURING CONSTRUCTION
GREENVIEW DR CONSTRUCTION	NB GREENVIEW CLSD TO THRU TRAFFIC AT SCIO CHURCH	SB GREENVIEW CLSD TO THRU TRAFFIC AT W STADIUM
MONTH DATE *	FOLLOW POSTED DETOUR	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.

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	DESCRIPTION
	REV.
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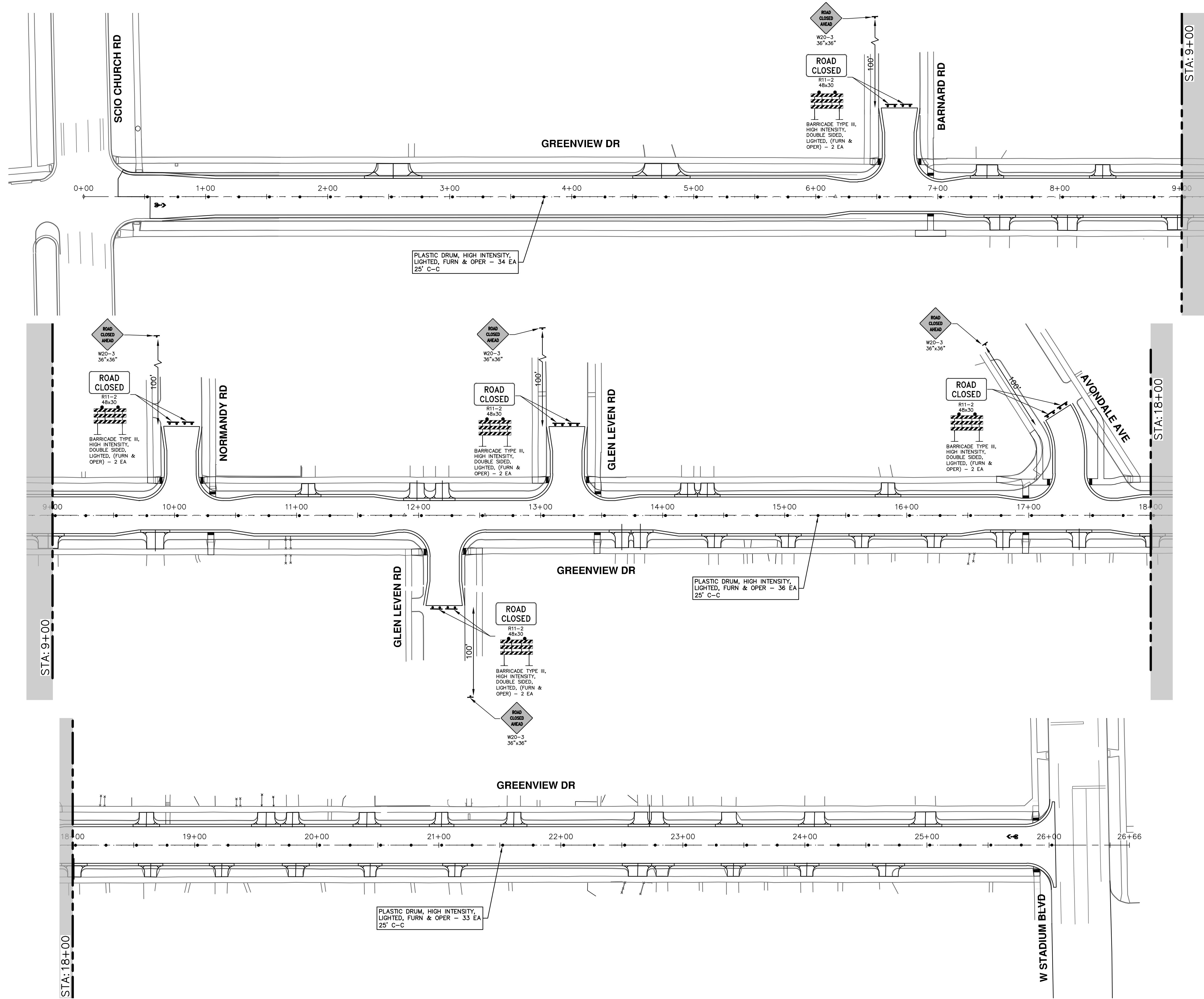
CITY OF ANN ARBOR  
PUBLIC SERVICES  
301 EAST HURON STREET  
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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING  
S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS  
DETOUR ROUTE - GREENVIEW DRIVE NORTH

SCALE PLAN: 1" = 400'  
DRAWING No. 2020031-17  
SHEET No. 17 OF 92



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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

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ANN ARBOR, MI 48106-8647  
ANN ARBOR 734-794-4410  
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SHEET No. **18 OF 92**

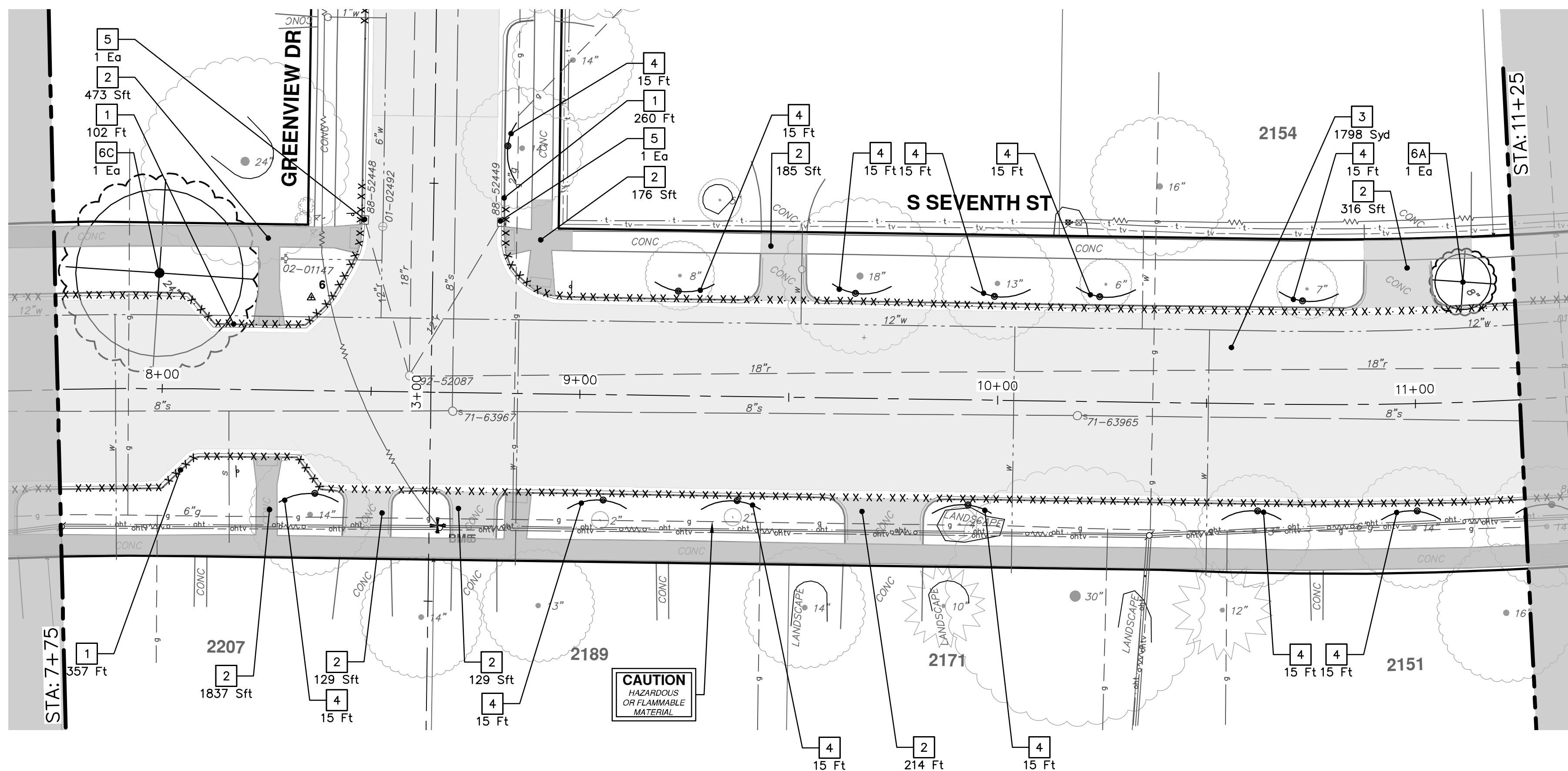
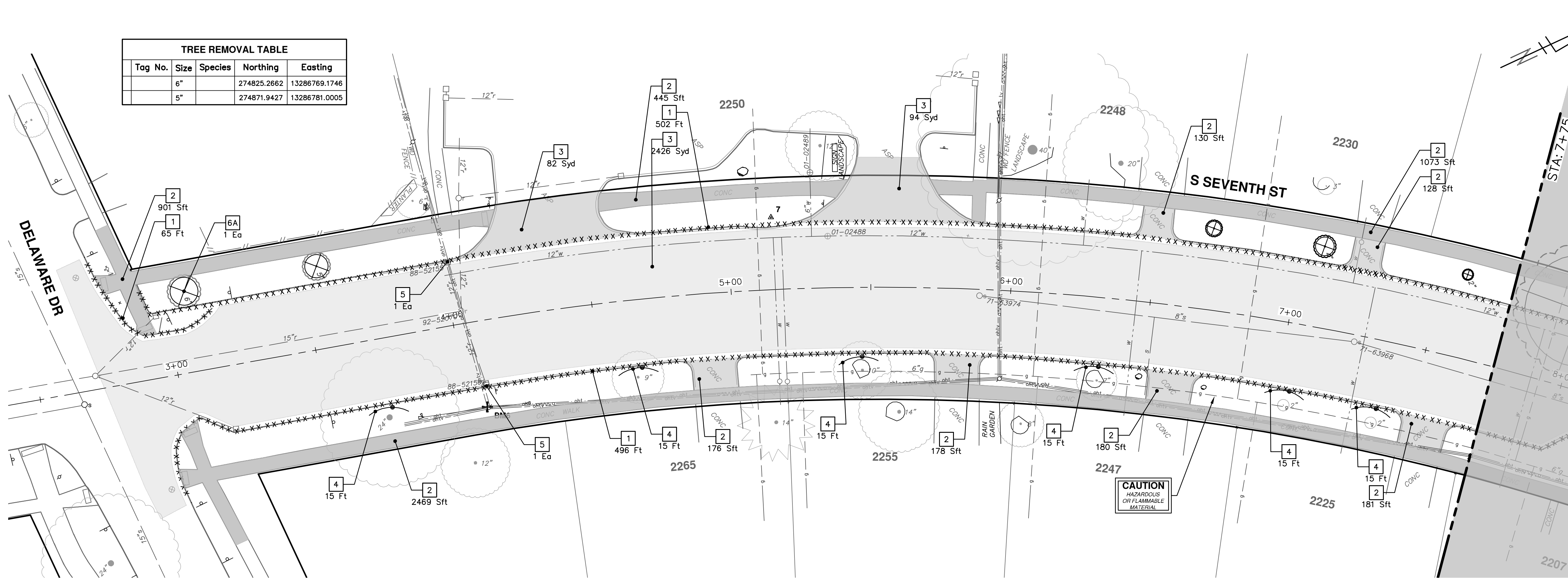
SCALE: 1" = 40'

DRAWING No. **2020031-18**



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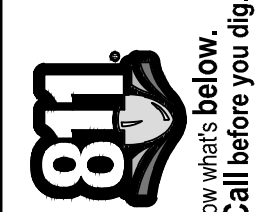
TREE REMOVAL TABLE				
Tag No.	Size	Species	Northing	Easting
	6"		274825.2662	13286769.1746
	5"		274871.9427	13286781.0005



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



CITY OF ANN ARBOR  
PUBLIC SERVICES  
301 EAST HURON STREET  
ANN ARBOR, MI 48106-6647  
ANN ARBOR: 734.754.4410  
WWW.A2gov.org

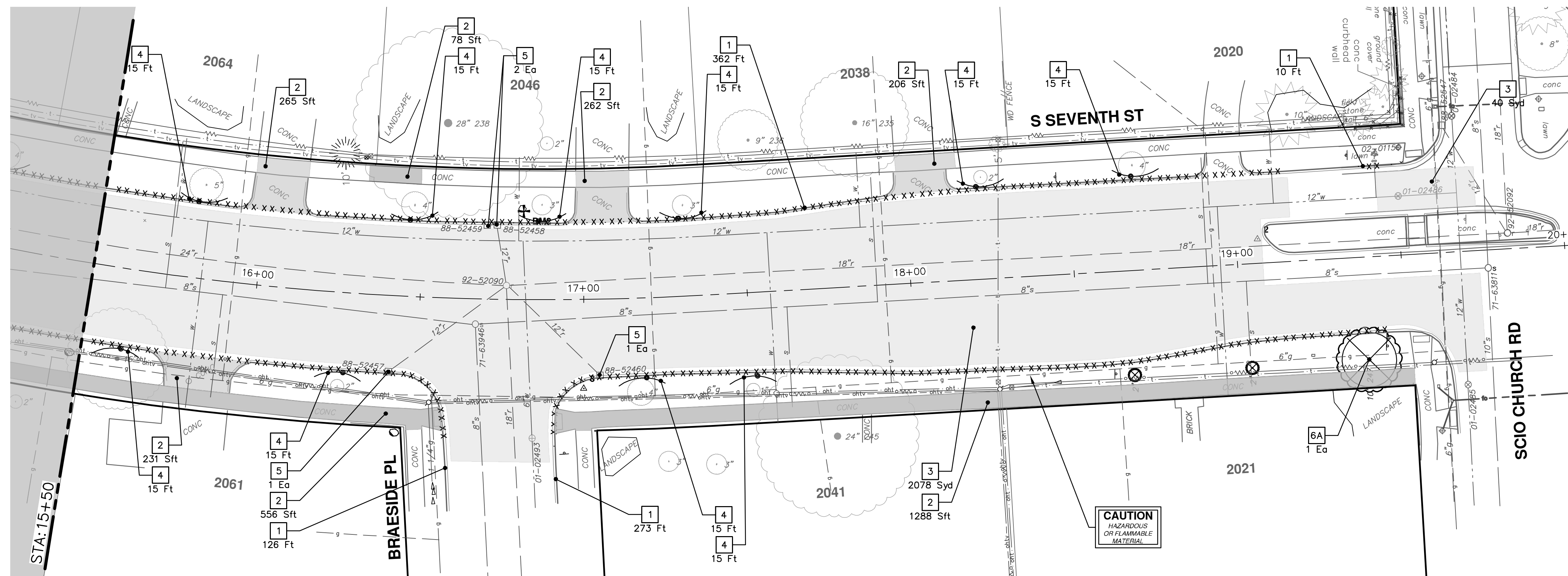
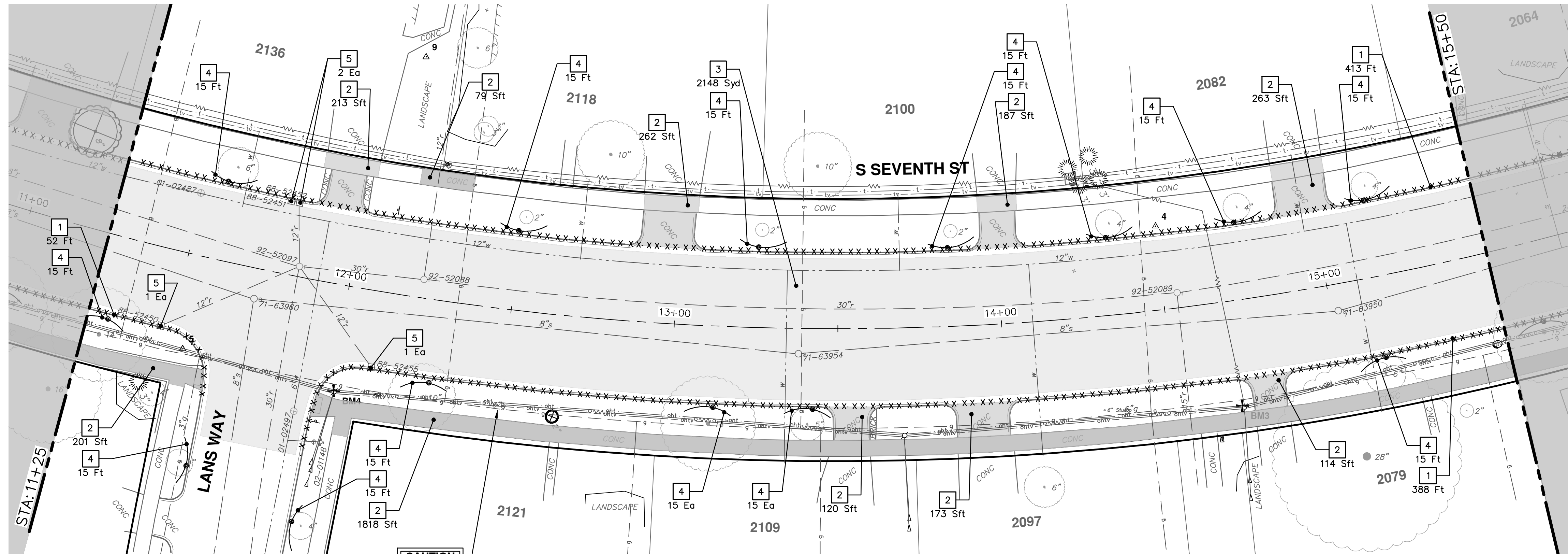


CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING  
S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS  
REMOVALS - S SEVENTH STREET  
STA. 4+00 - STA. 11+25

SCALE: 1" = 20'  
DRAWING NO. 2020031-19  
SHEET NO.



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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

TREE REMOVAL TABLE				
Tag No.	Size	Species	Northing	Eastings
	2"		275602.4097	13287327.7418
	2"		276201.8788	13287432.1030
	2"		276237.8108	13287430.3530
	10"	247	276273.5161	13287428.2520



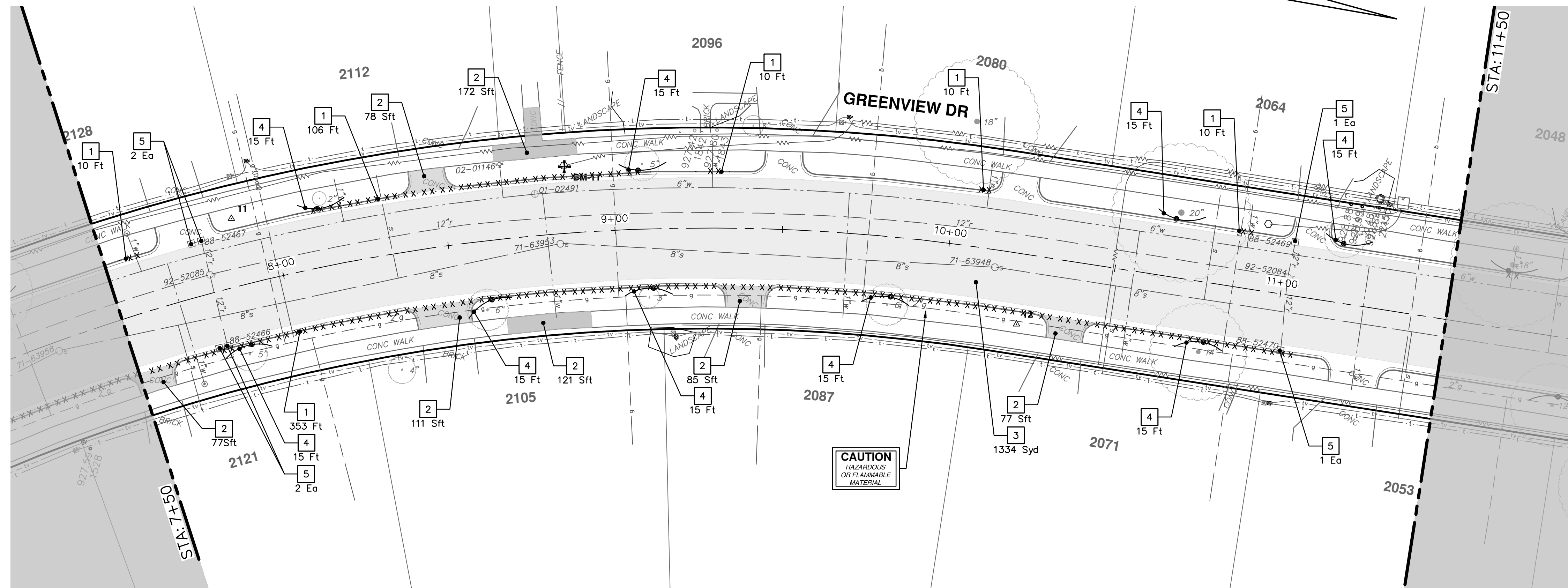
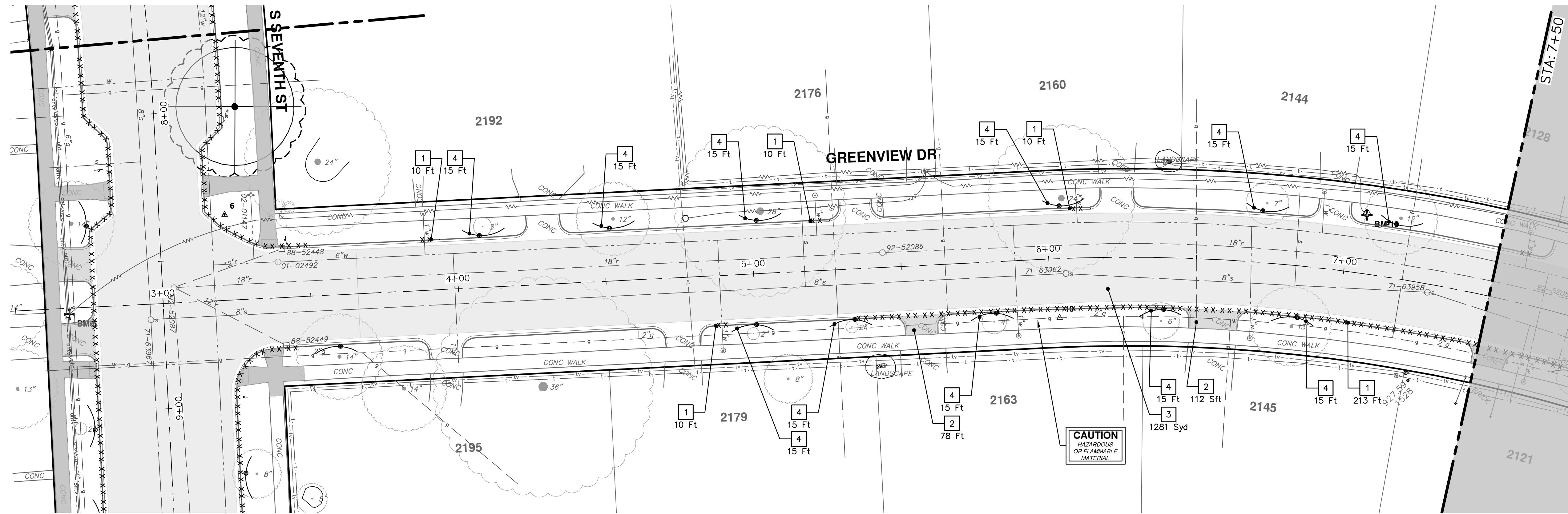
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00	BID SET	1-30-24	TA	

CITY OF ANN ARBOR  
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ANN ARBOR, MI 48106-8647  
ANN ARBOR 734-794-4410  
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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING  
S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS  
REMOVALS - S SEVENTH STREET  
STA. 11+25 - STA. 19+18  
SCALE: 1" = 20'  
DRAWING NO. 2020031-20  
SHEET No. 20 OF 92



R:\2020031 S 7th Street\Plan Production\2020031Rem.dwg Dwg Created: 30-Jan-24 - \_o2 standard bw.stb - Plot Date: 30-Jan-24



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

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

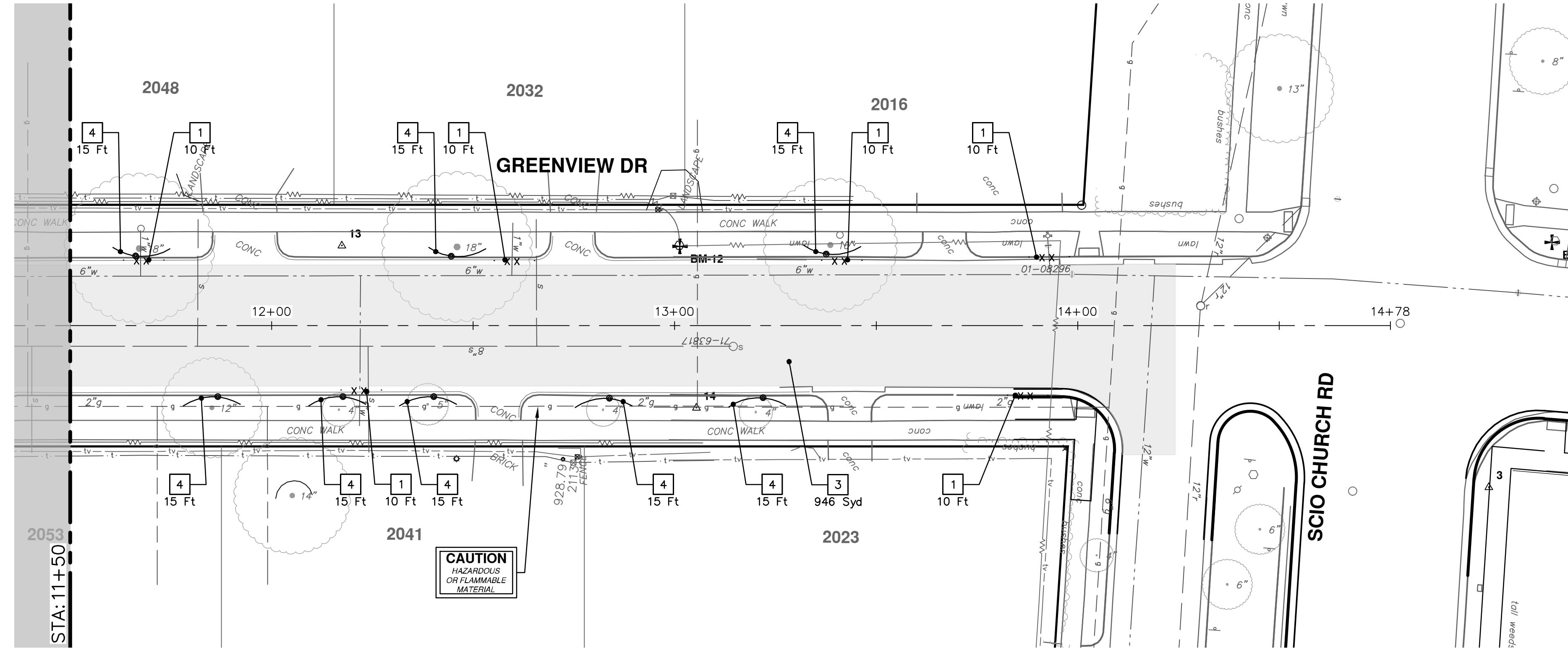
CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING  
**S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS**  
 REMOVALS - GREENVIEW DRIVE SOUTH  
 STA. 3+66 - STA. 11+50

REV.	DATE	DESCRIPTION
00	1-30-24	BID SET
01		DRAWN
02		CHECKED

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING  
 SCALE: 1" = 20'  
 DRAWING No. 2020031-21  
 SHEET No. 21 OF 92

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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

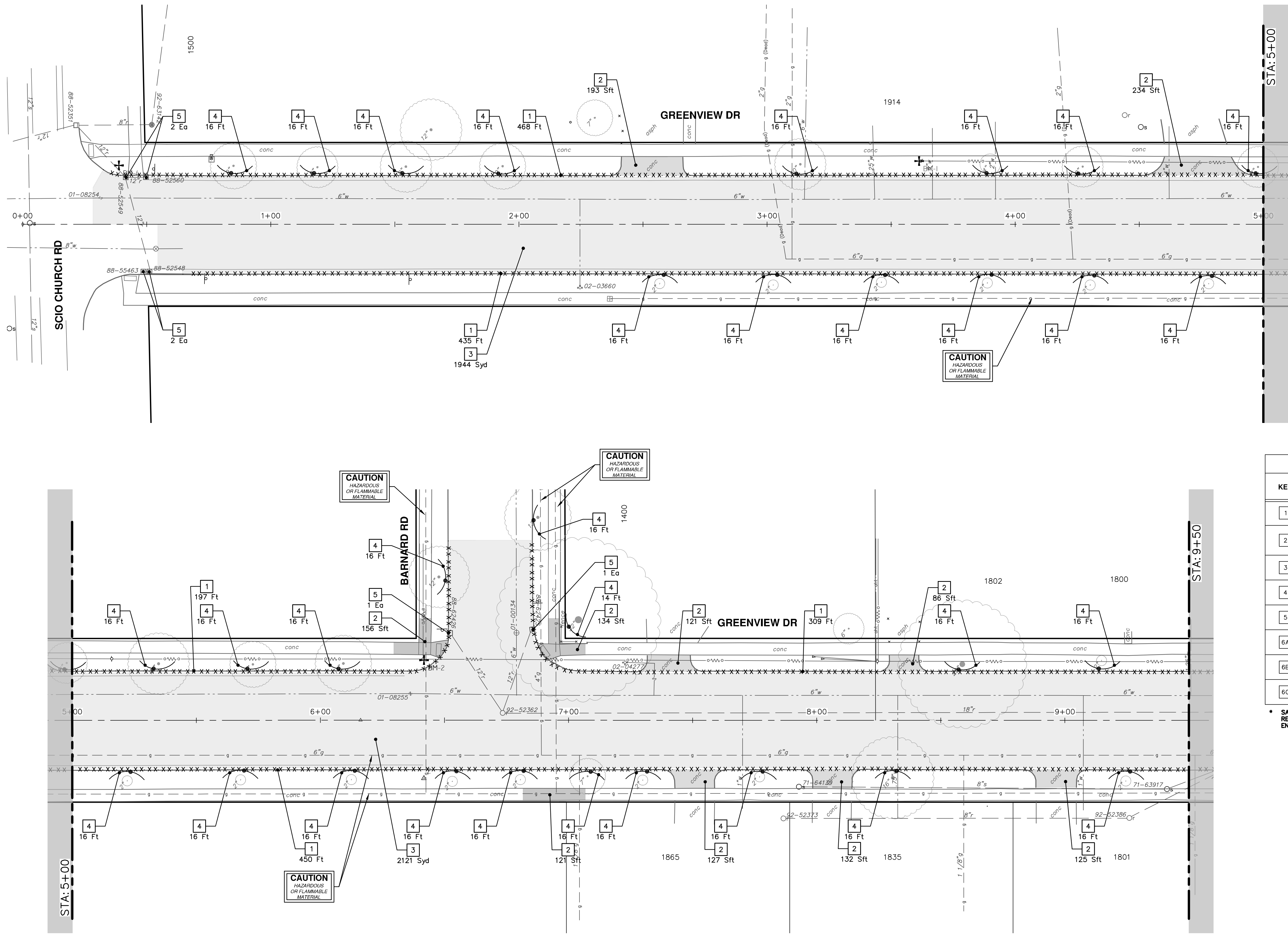
**811**  
Know what's below.  
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REV.	DATE	DESCRIPTION
00	1-30-24	BID SET
01		TA
02		ADZ
03		DRAWN
04		CHECKED

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ANN ARBOR: 734-764-4410  
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**CITY OF ANN ARBOR MICHIGAN**

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



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



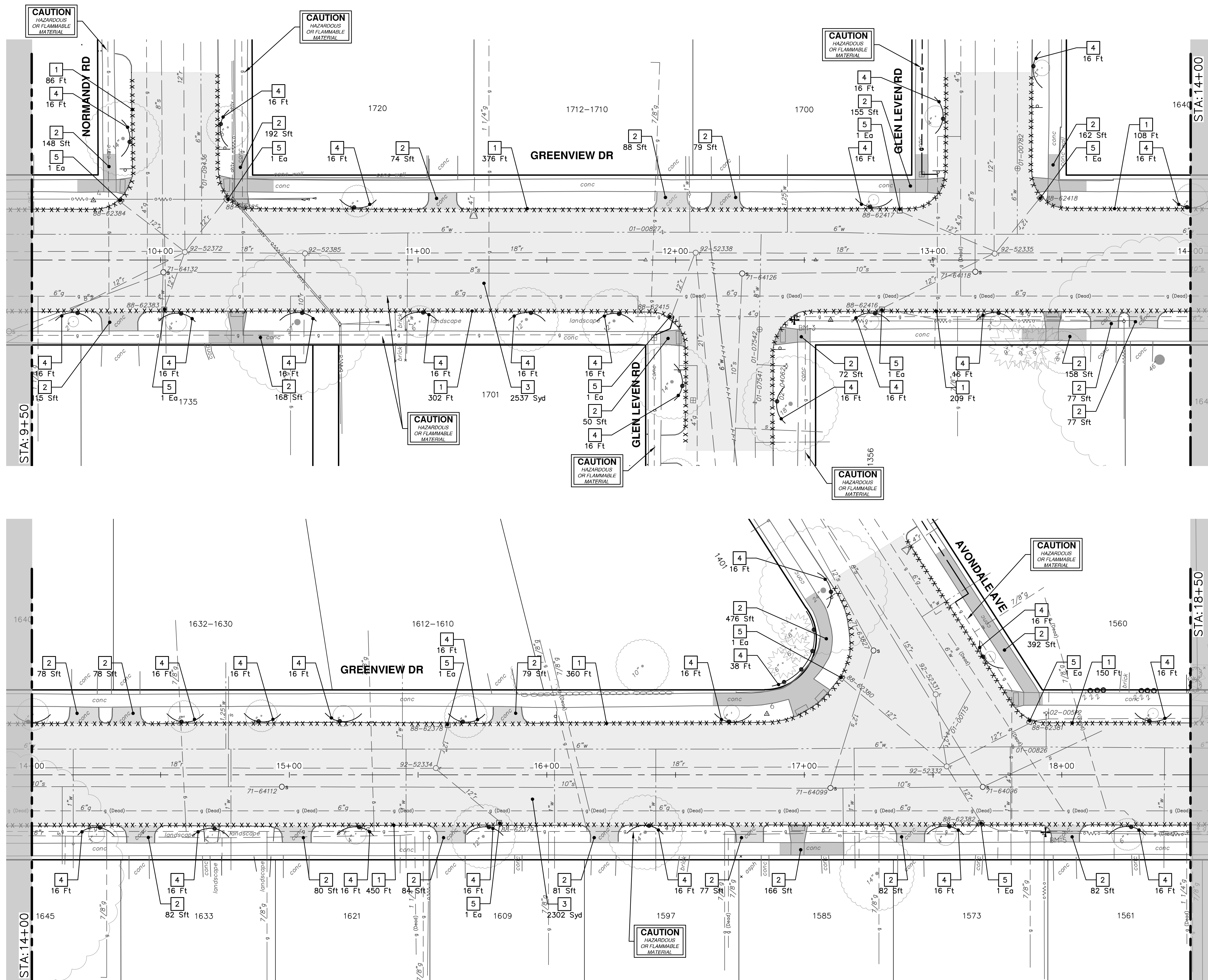
**CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING**  
**S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS**  
REMOVALS - GREENVIEW DRIVE NORTH

SCALE: 1" = 20'  
DRAWING No. 2020031-23

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



R:\2023002\_Greenview\Plan Production\2023002Rem.dwg Dwg Created: 30-Jan-24 - \_o2\_standard\_bw.stb - Plot Date: 30-Jan-24



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 NORTH

STA. 9+50 - STA. 18+50

SCALE: 1" = 20'

DRAWING No. 20230031-24

SHEET No. 24 OF 92

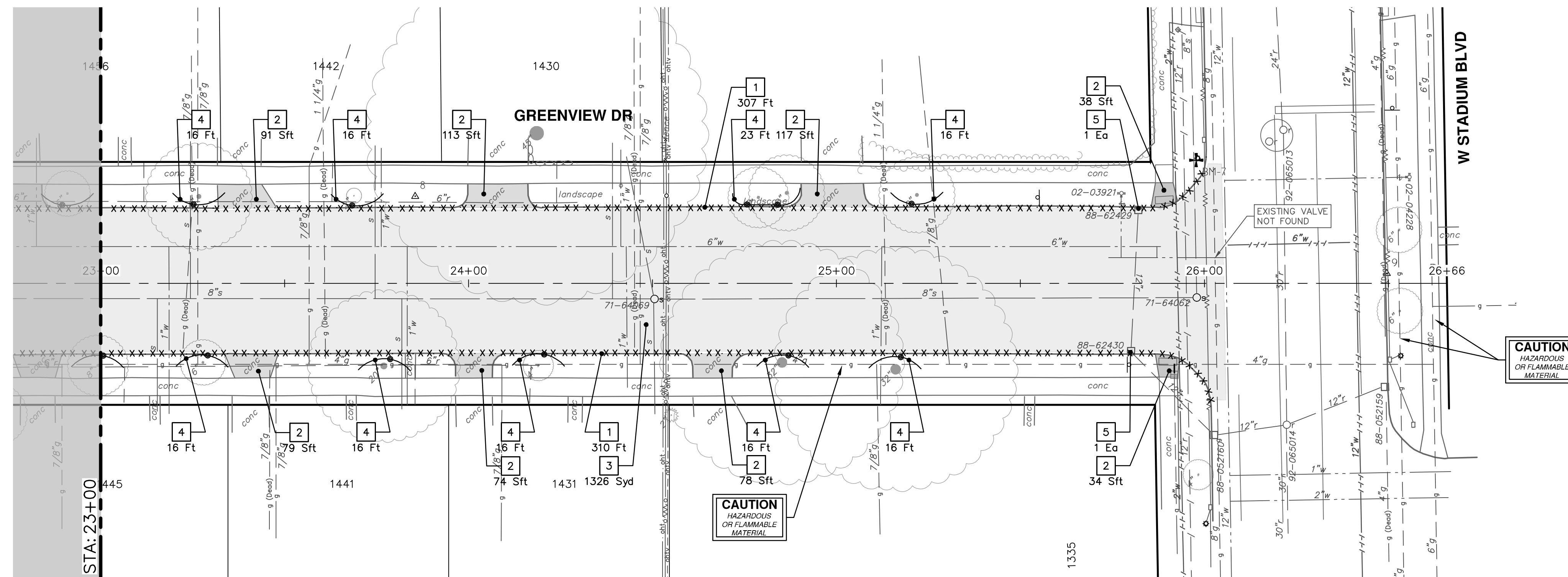
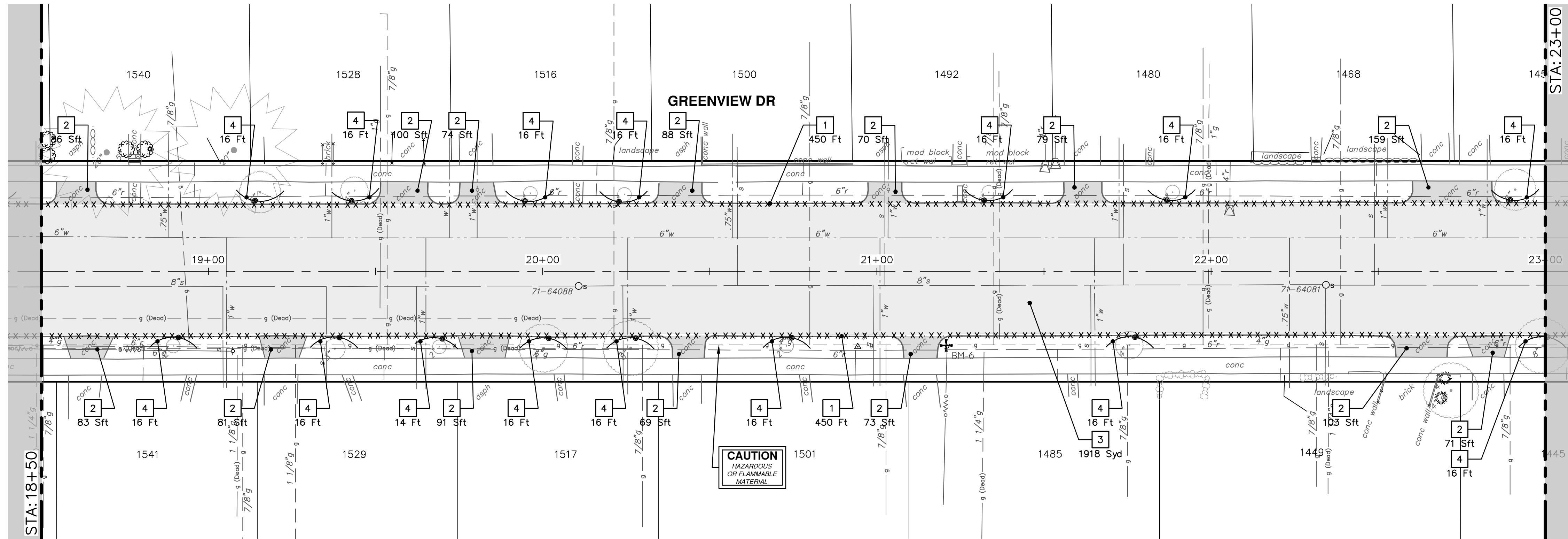


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REV.	DATE	DESCRIPTION
00	1-30-24	BID SET
01		AZD
02		TA
03		CHECKED

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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 - ENGINEERING**

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

REMOVALS - GREENVIEW DRIVE NORTH

STA. 18+50 - STA. 26+66

DRAWING No. 2020031-25

SHEET No. 25 OF 92

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**CITY OF ANN ARBOR**  
MICHIGAN

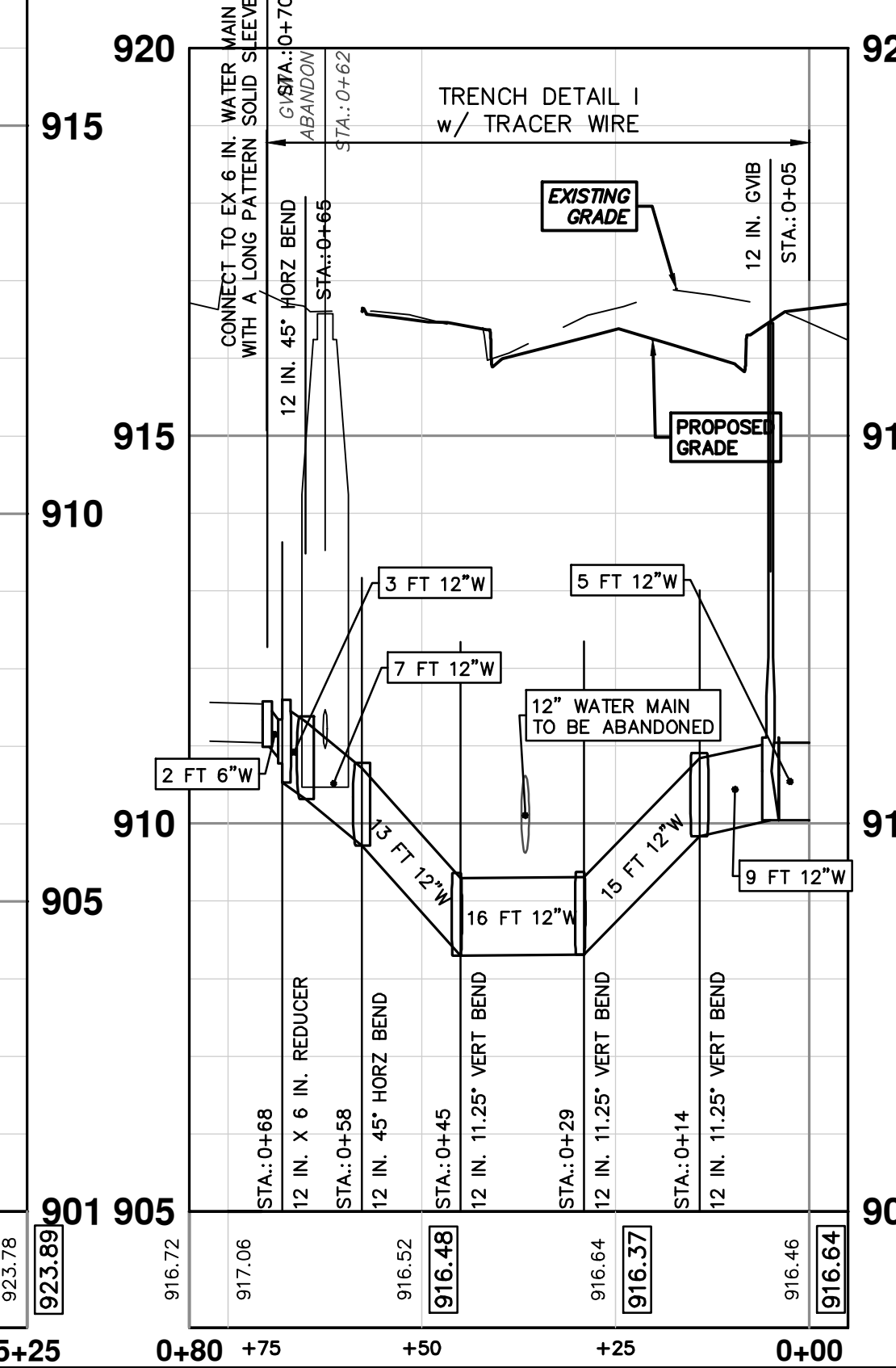
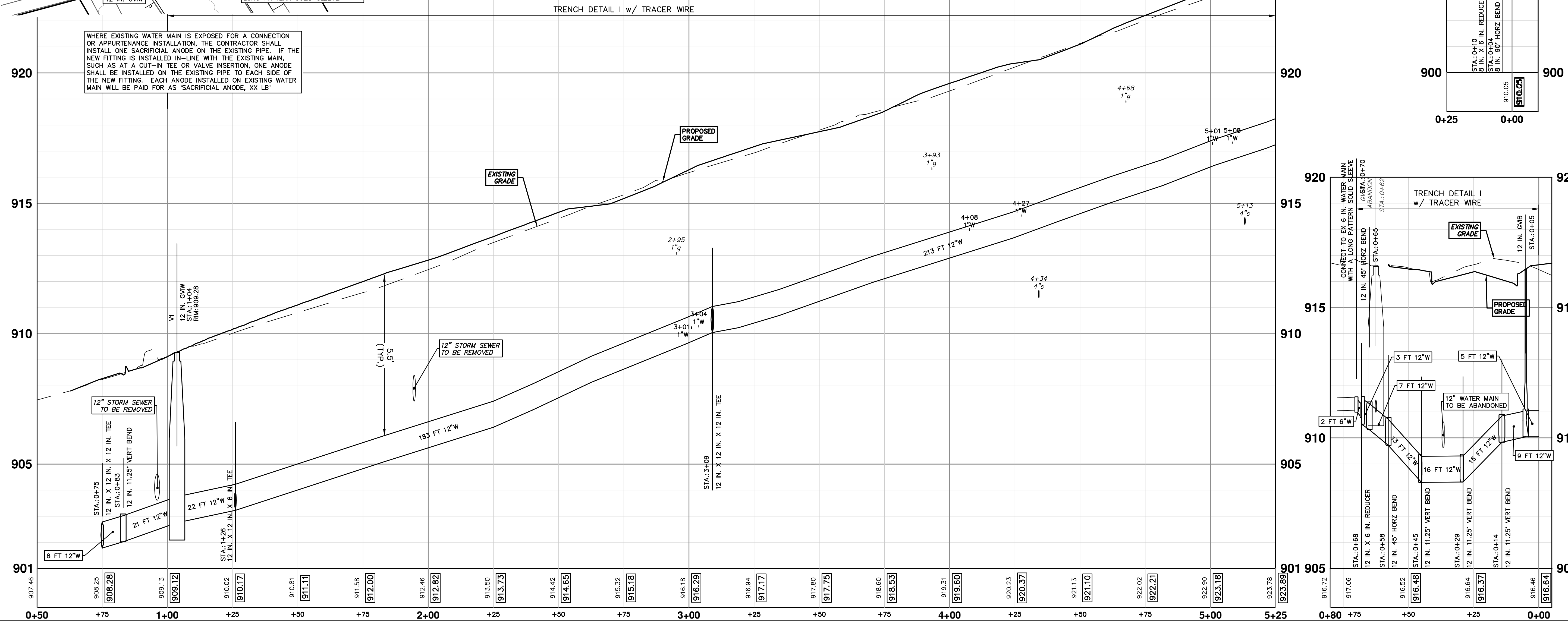
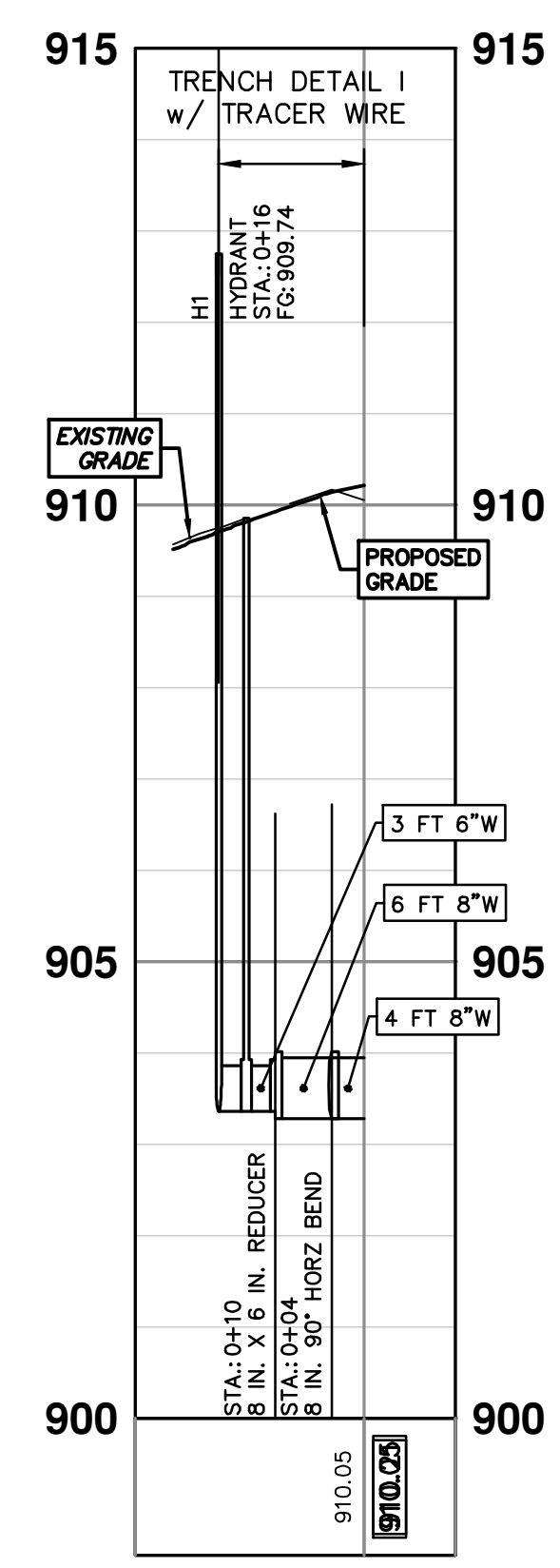
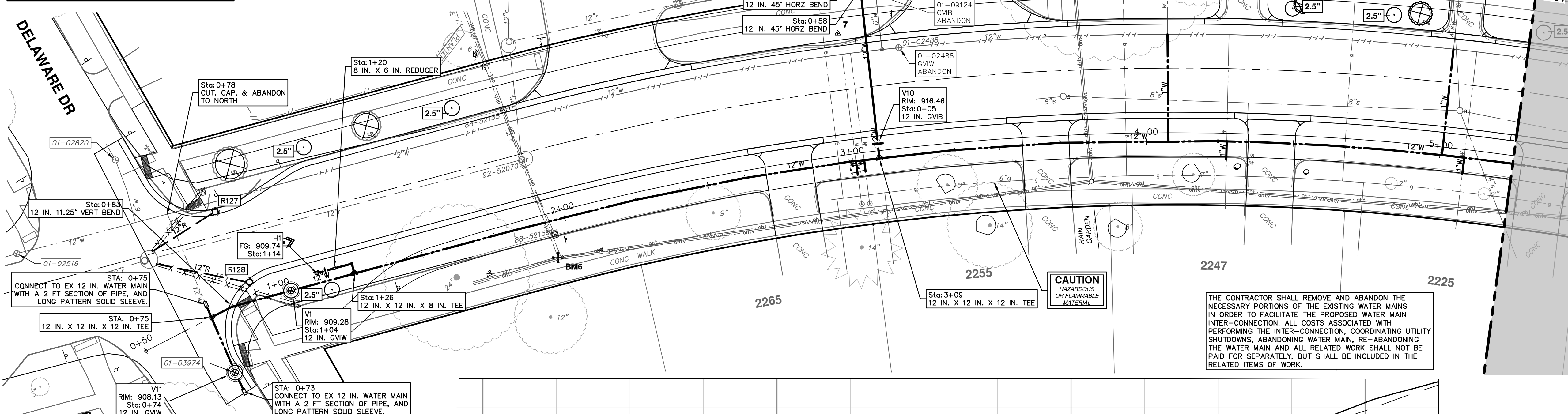
REV.	DATE	DRAWN	CHECKED
00	1-30-24	AZD	TA




R:\2020031 S 7th Street\Plan Production\2020031Wat.dwg Dwg Created: 30-Jan-24 - Plot Date: 30-Jan-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.

REV.	DATE	DESCRIPTION
00	1-30-24	BID SET
01		DRAWN
02		CHECKED

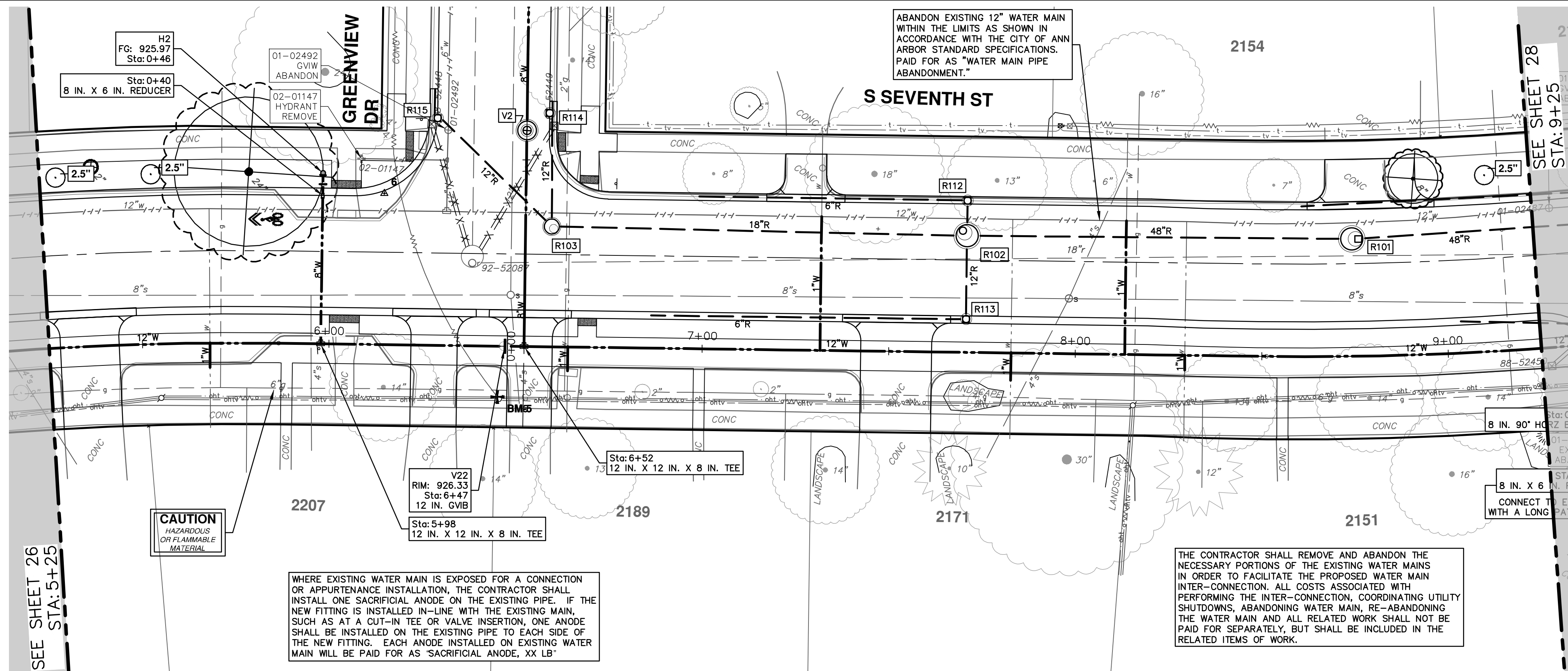


**CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING**  
 S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS  
 WATER MAIN - S SEVENTH STREET  
 STA. 0+50 - STA. 5+25

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

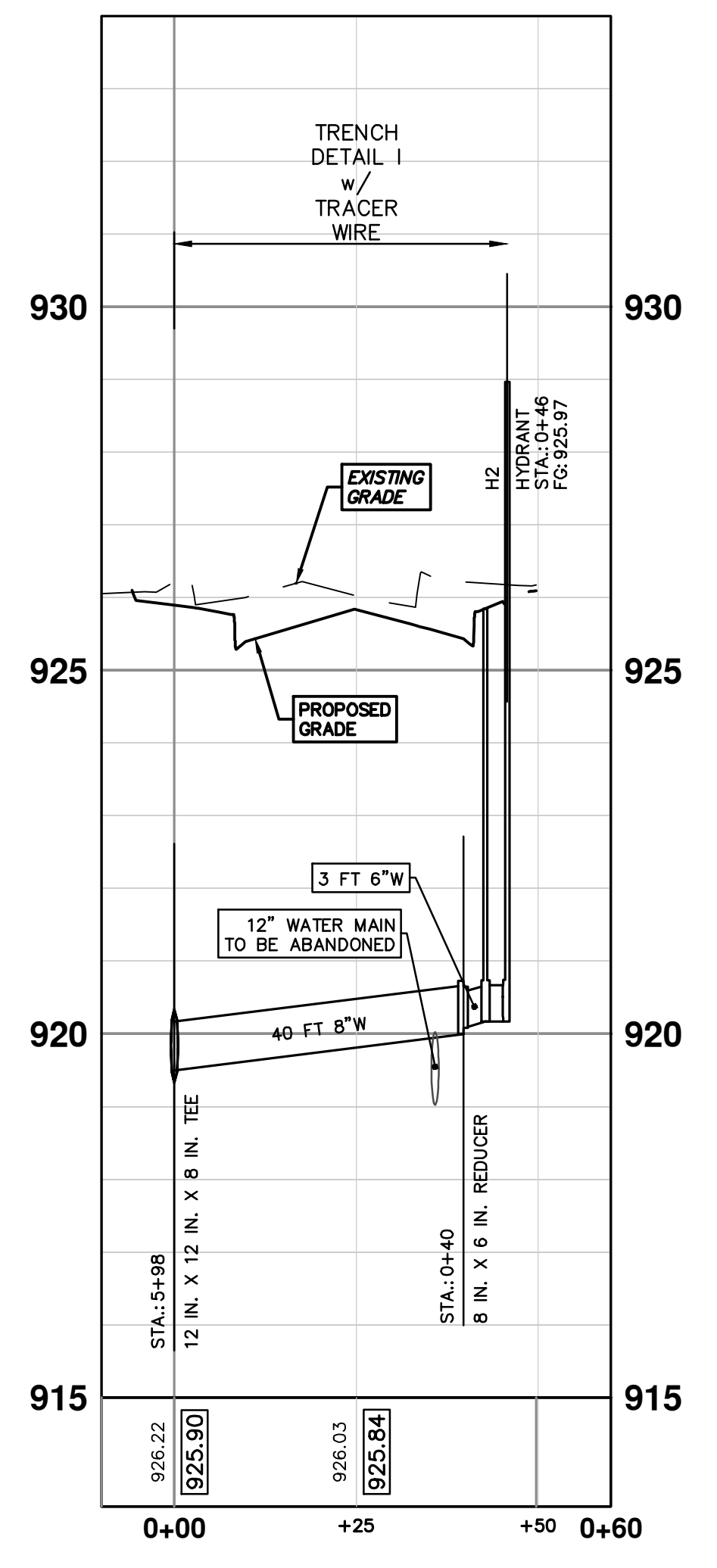
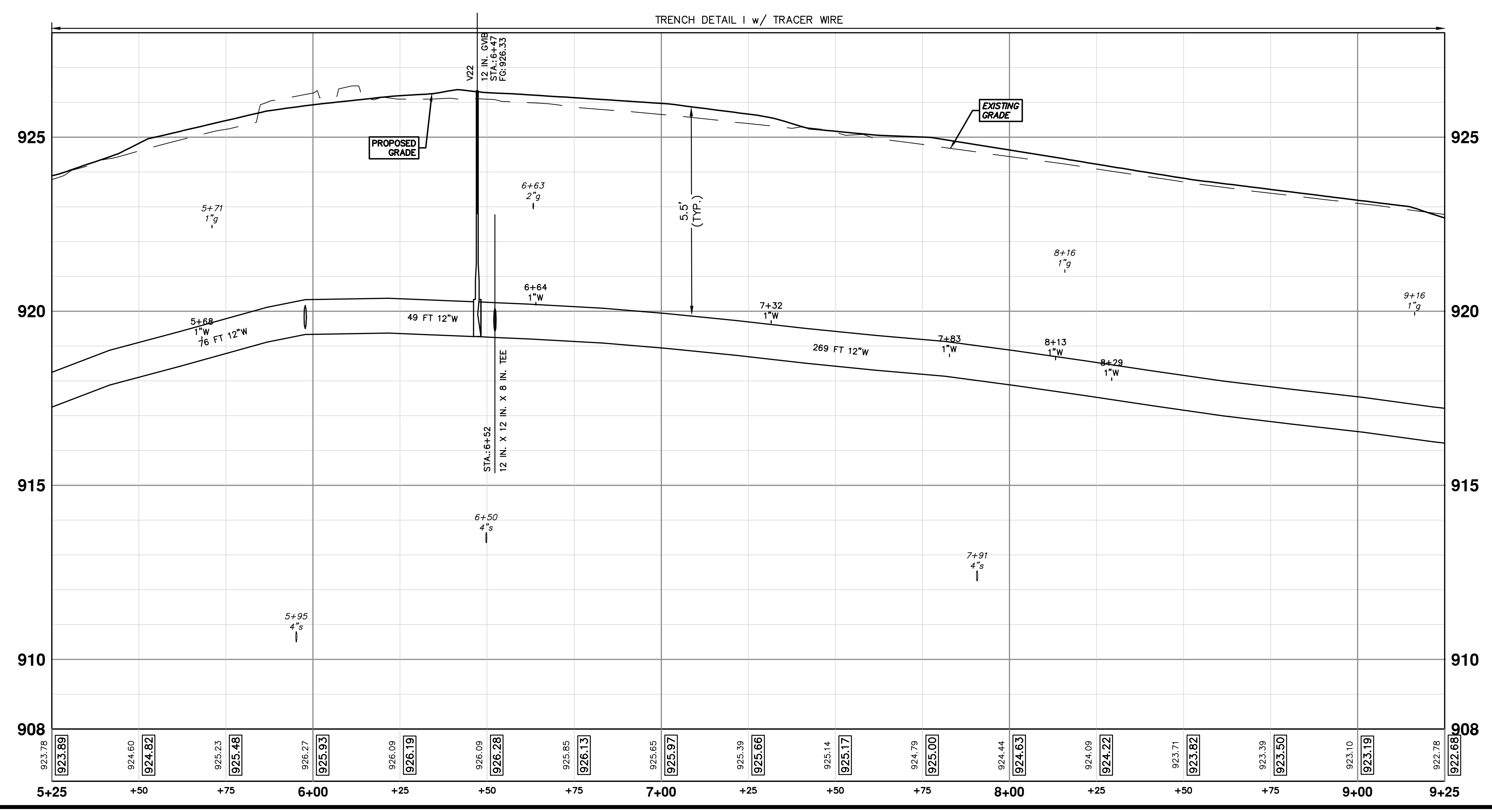


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WATER MAIN STRUCTURES			
STRUCTURE	TYPE	STATION	RIM
V22	12 in. GVIB	6+47	926.33

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



**811**  
Know what's below.  
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REV.	DATE	DESCRIPTION
00	1-30-24	BID SET
01		1-30-24
02		1-30-24
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99		1-30-24
100		1-30-24

CITY OF ANN ARBOR  
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ANN ARBOR: 734.754.4410  
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CITY OF ANN ARBOR  
MICHIGAN

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

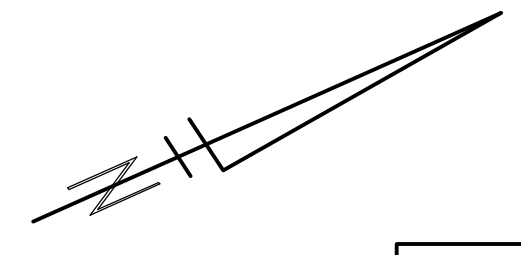
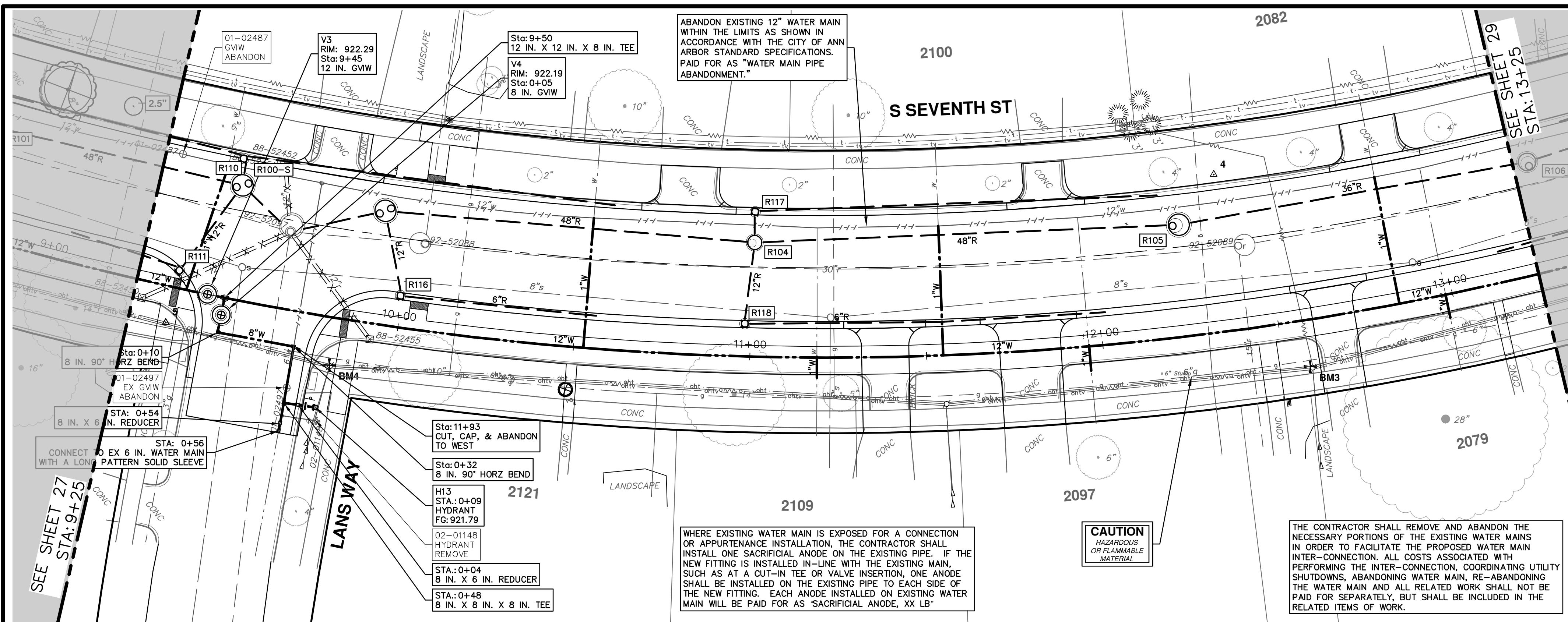
SCALE PLAN: 1" = 20'  
PROFILE: 1" = 2'

DRAWING No. 2020031-27

SHEET No. 27 OF 92



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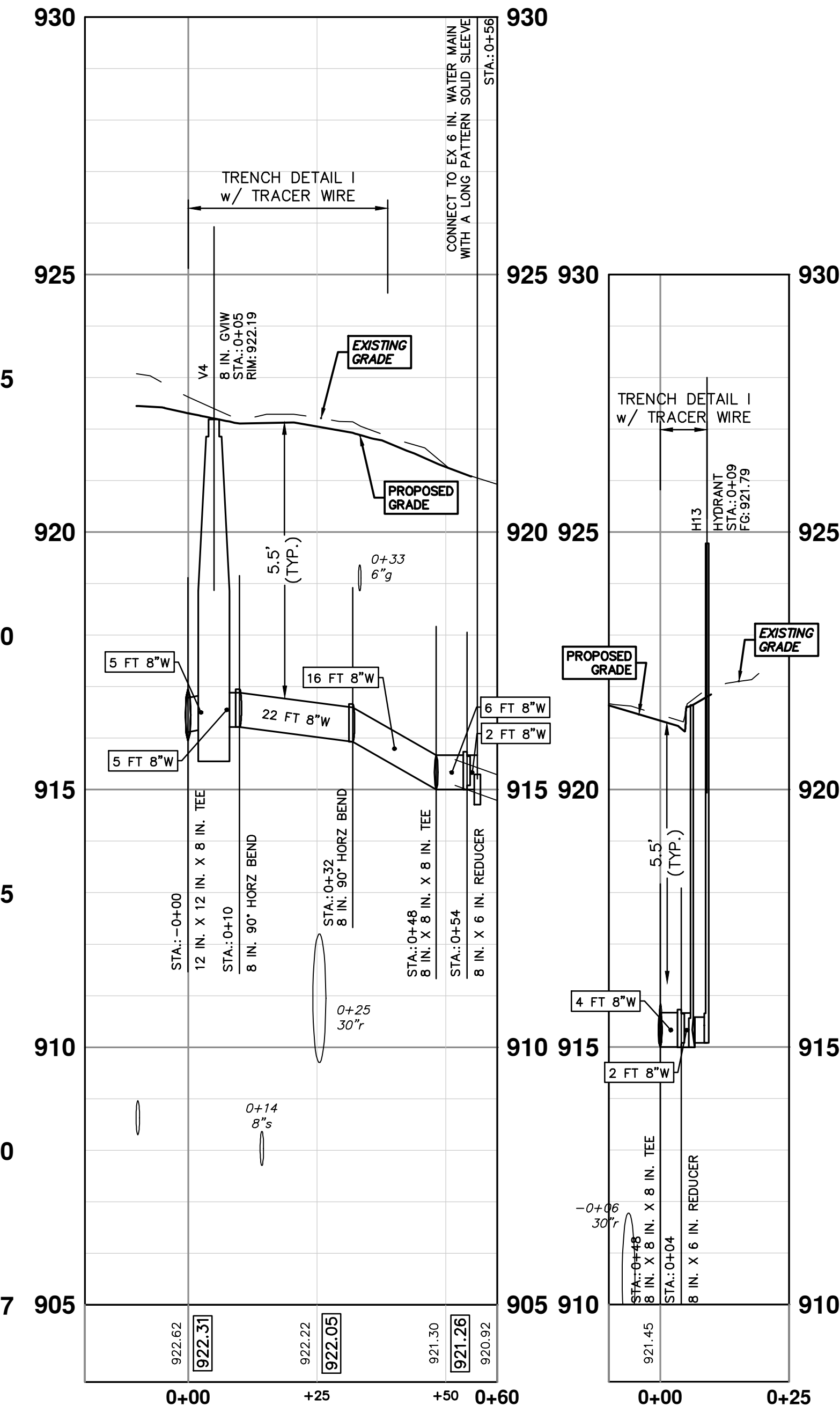
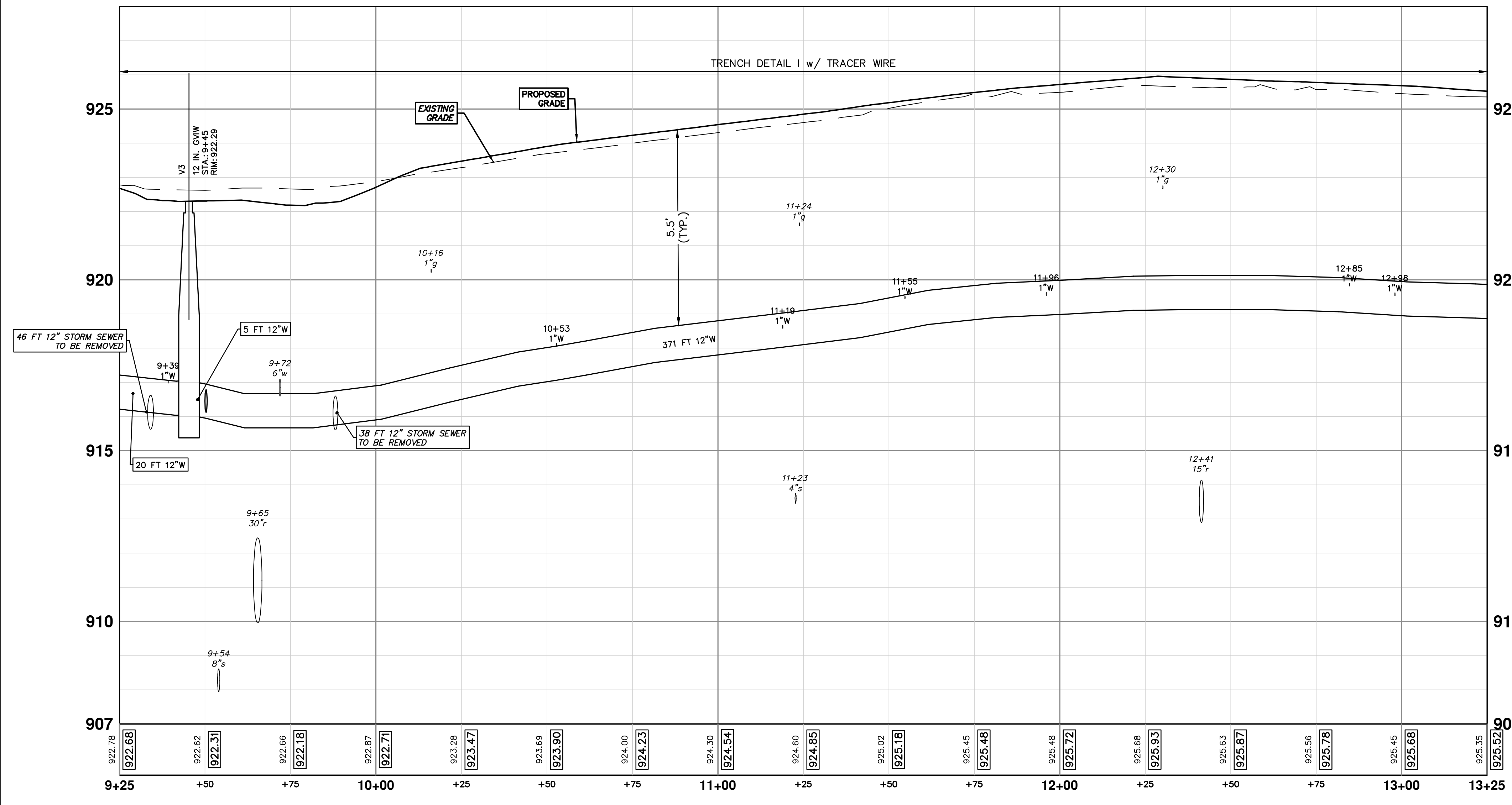
WATER MAIN STRUCTURES			
STRUCTURE	TYPE	STATION	RIM
V4	8 in. G.V.W	0+05	922.19
V3	12 in. G.V.W	9+45	922.29


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

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.





Know what's below.  
Call before you dig.

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



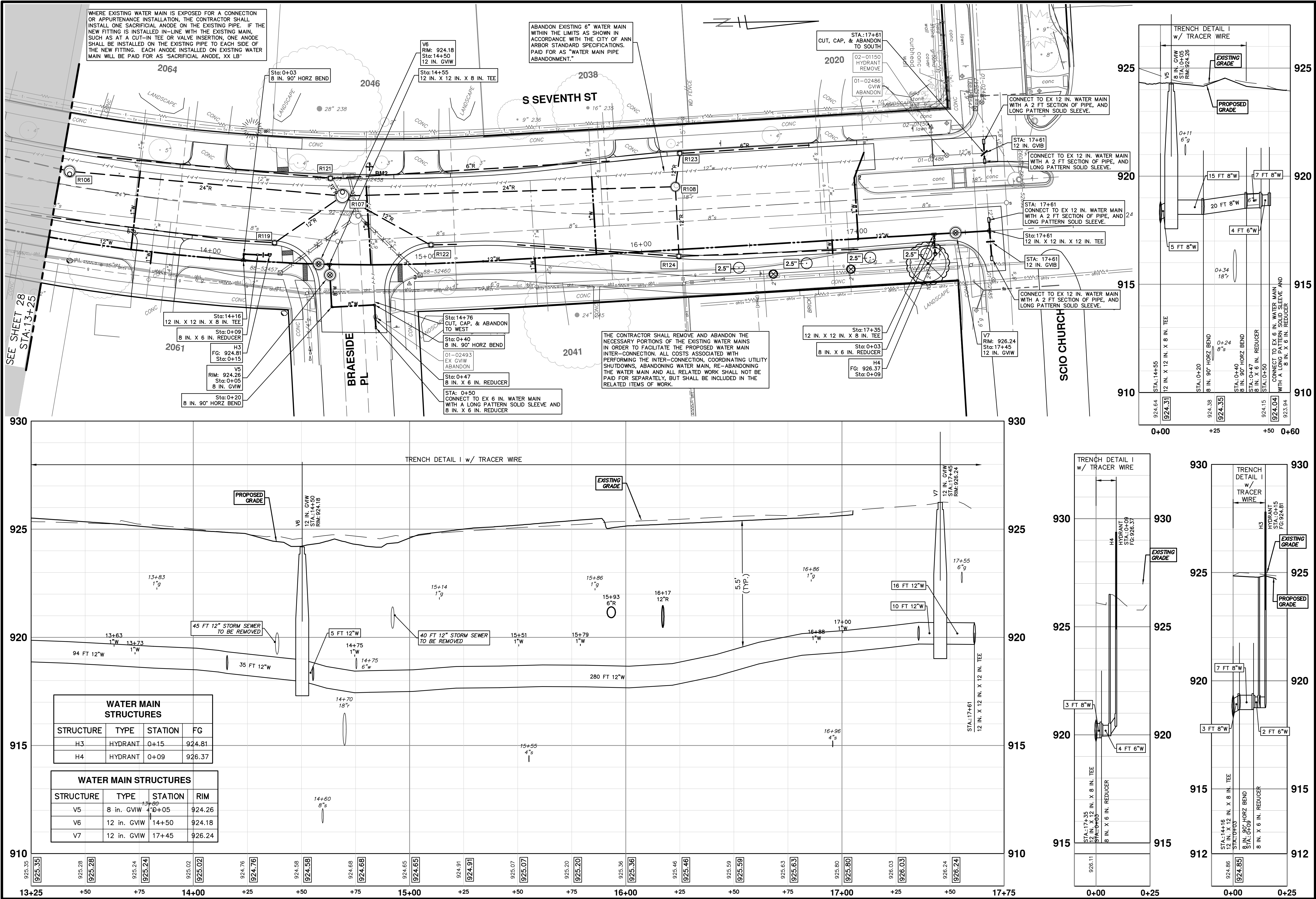
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S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS  
WATER MAIN - S SEVENTH STREET  
STA. 9+25 - STA. 13+25

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

DRAWING NO.: 2020031-28  
SHEET NO.: 28 OF 92



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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"

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

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

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 WATER MAIN - S SEVENTH STREET  
 STA. 13+25 - STA. 17+50

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

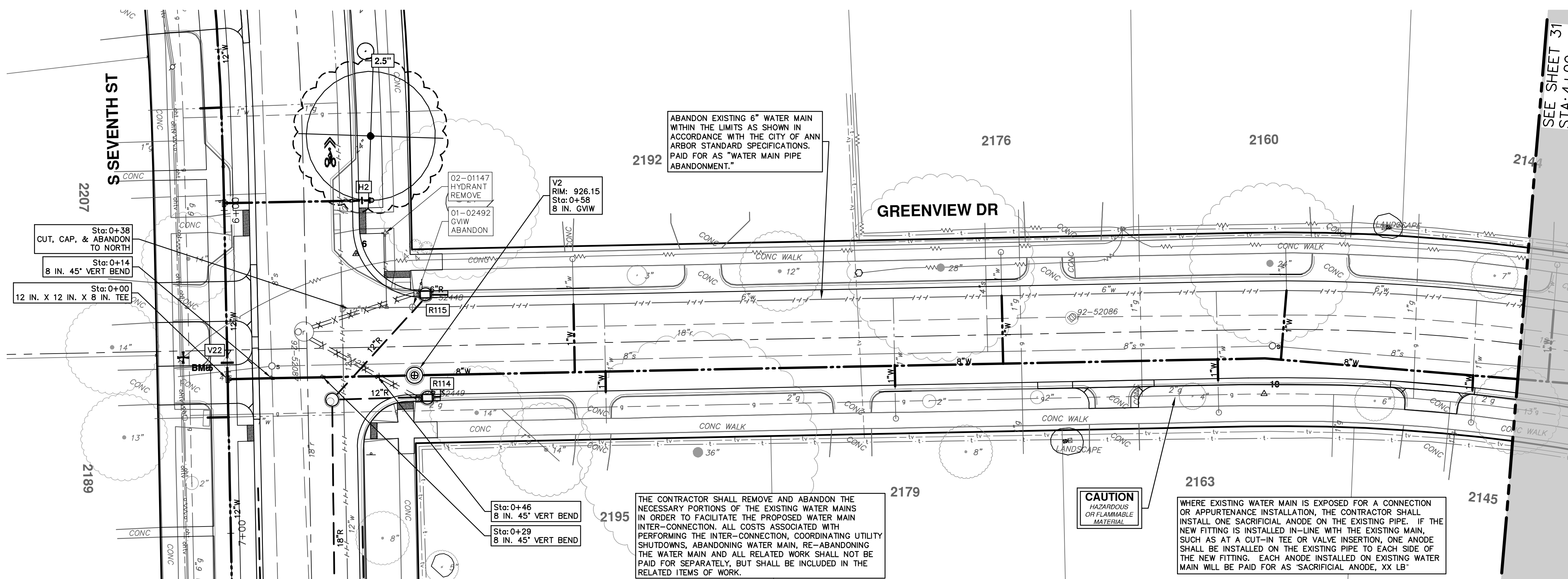
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 SHEET NO. 29 OF 92

REV.	DATE	DESCRIPTION
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03	DRAWN	1-30-24
04	CHECKED	1-30-24

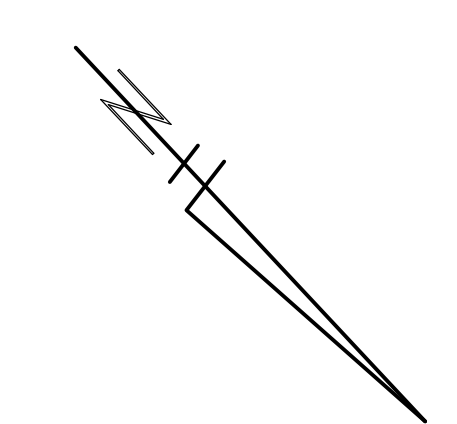
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R:\2020031\_3\_7th Street\Plan Production\2020031Wat1.dwg Dwg Created: 30-Jan-24 - \_g2 standard bw.stb - Plot Date: 30-Jan-24



SEE SHEET 31  
STA. 4+00

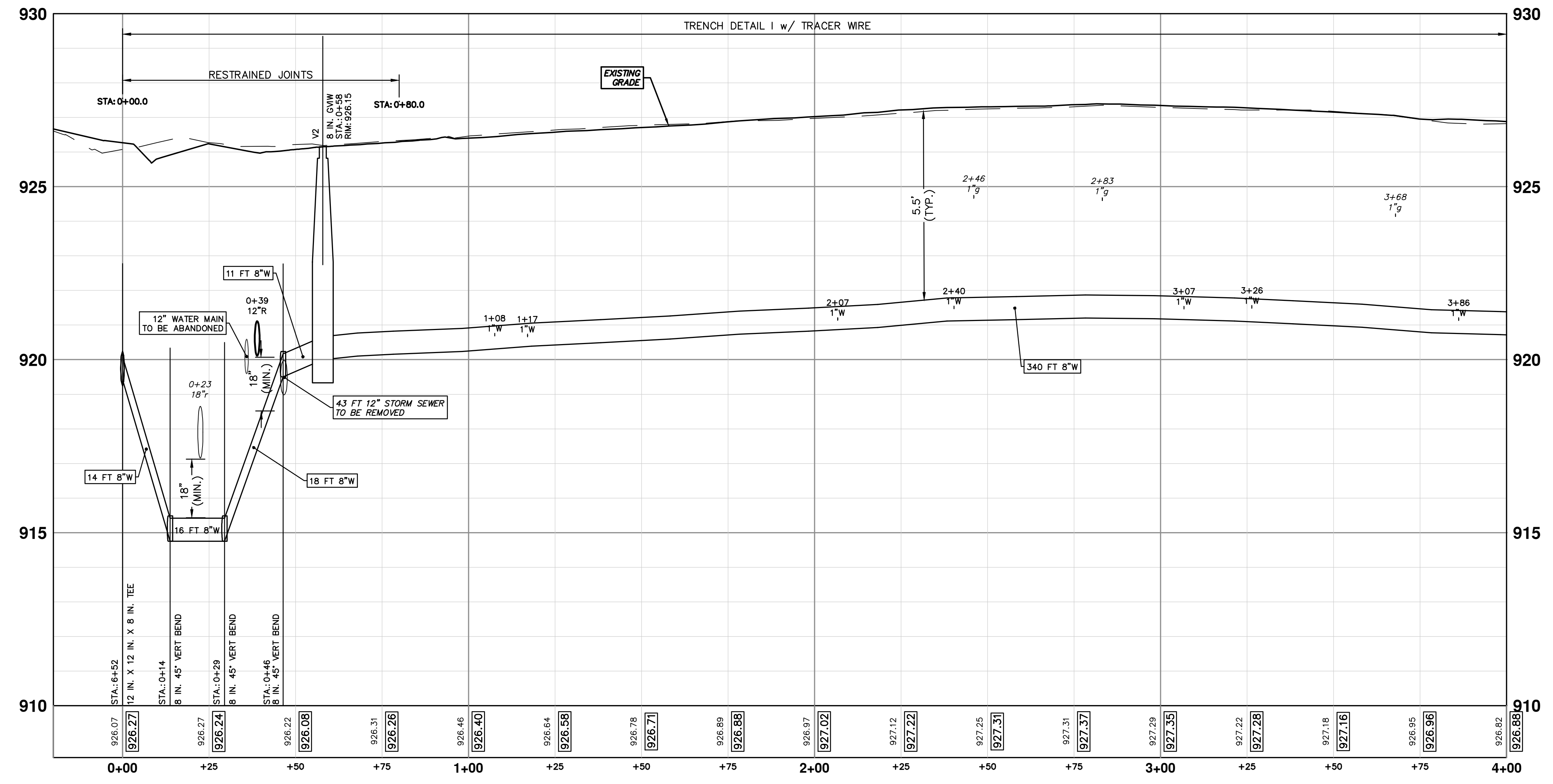


ABANDON EXISTING 6" WATER MAIN WITHIN THE LIMITS AS SHOWN IN ACCORDANCE WITH THE CITY OF ANN ARBOR STANDARD SPECIFICATIONS. PAID FOR AS "WATER MAIN PIPE ABANDONMENT."

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

REV.	DATE	DESCRIPTION
00	1-30-24	BID SET
01		TA
02		ADZ
03		DRAWN
04		CHECKED

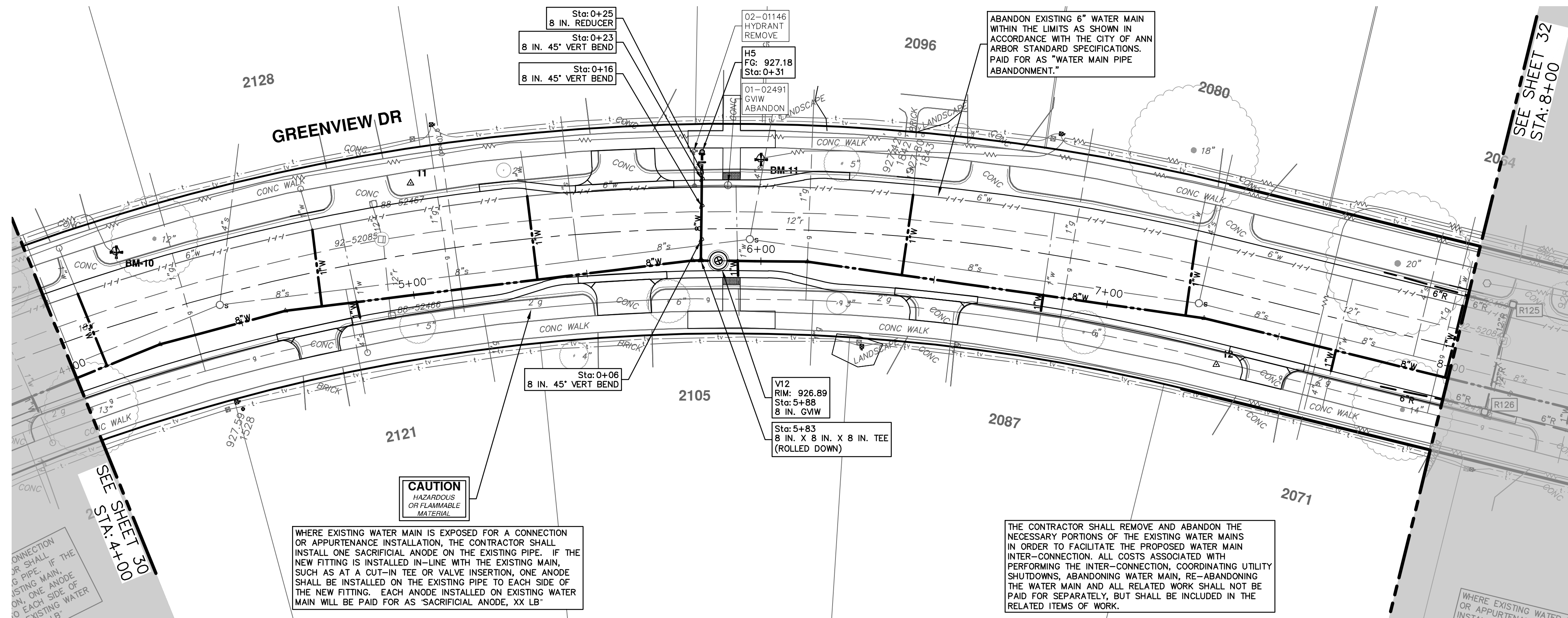
**CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING**  
**S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS**  
 WATER MAIN - GREENVIEW DRIVE SOUTH  
 STA. 0+00 - STA. 4+00

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

DRAWING No. **2020031-30**  
 SHEET No. **30 OF 92**



R:\2020031\_31\_7th Street\Plan Production\2020031Wat1.dwg Dwg Created: 30-Jan-24 - \_g2 standard bw.stb - Plot Date: 30-Jan-24



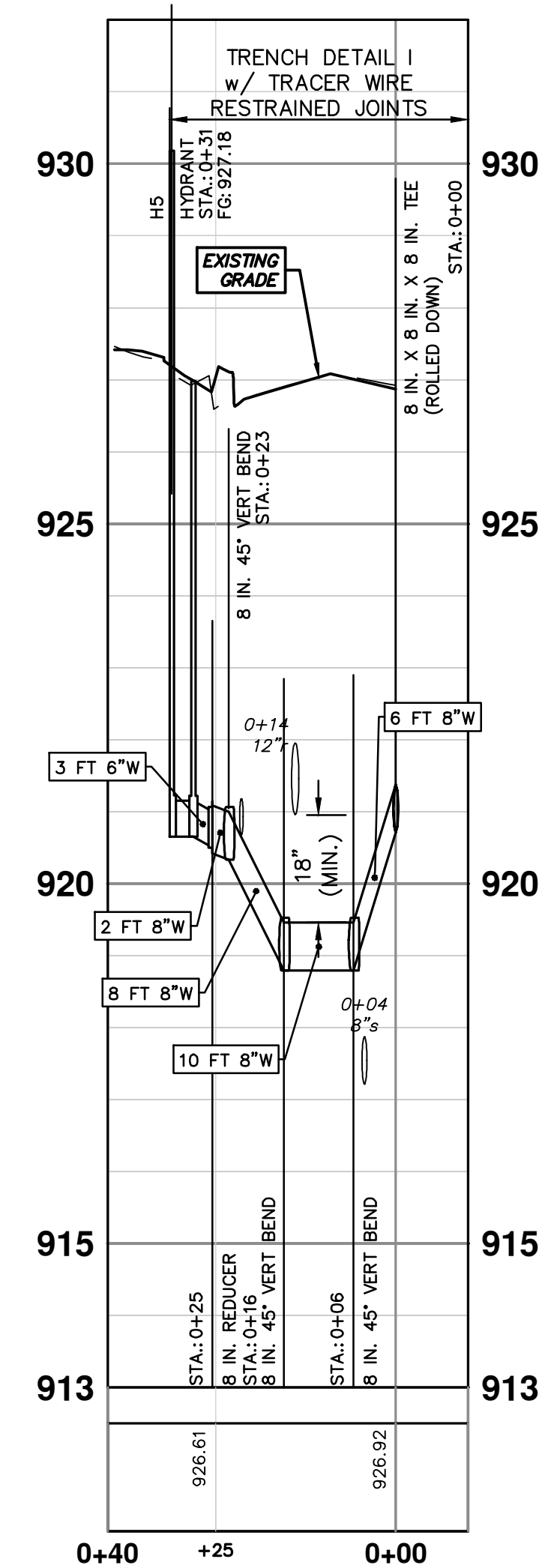
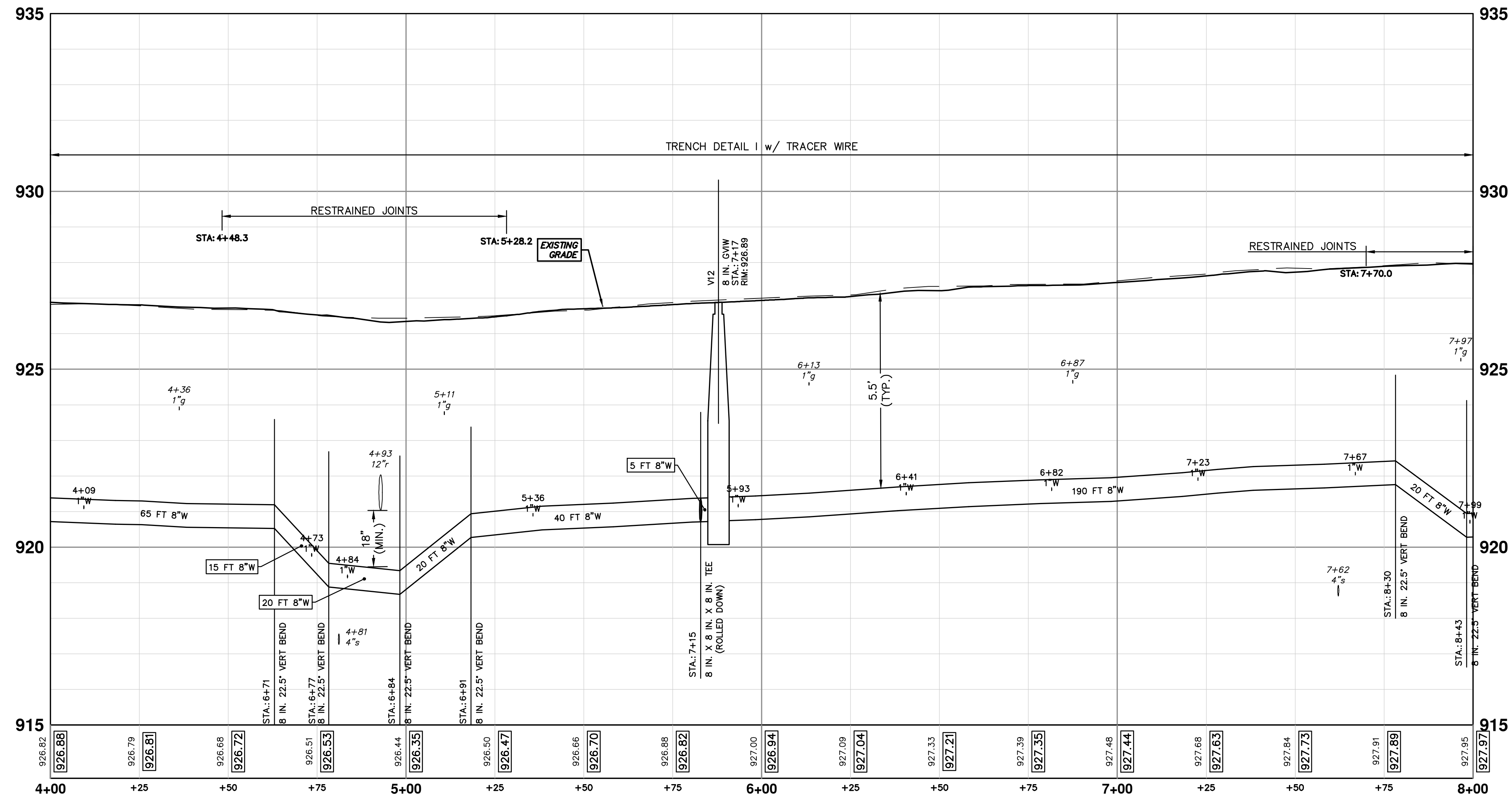
WATER MAIN STRUCTURES			
STRUCTURE	TYPE	STATION	FG
H5	HYDRANT	0+31	927.18


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
00	1-30-24	BID SET
01		TA
02		ADZ
03		DRAWN
04		CHECKED

**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



SCALE PLAN: 1" = 20'

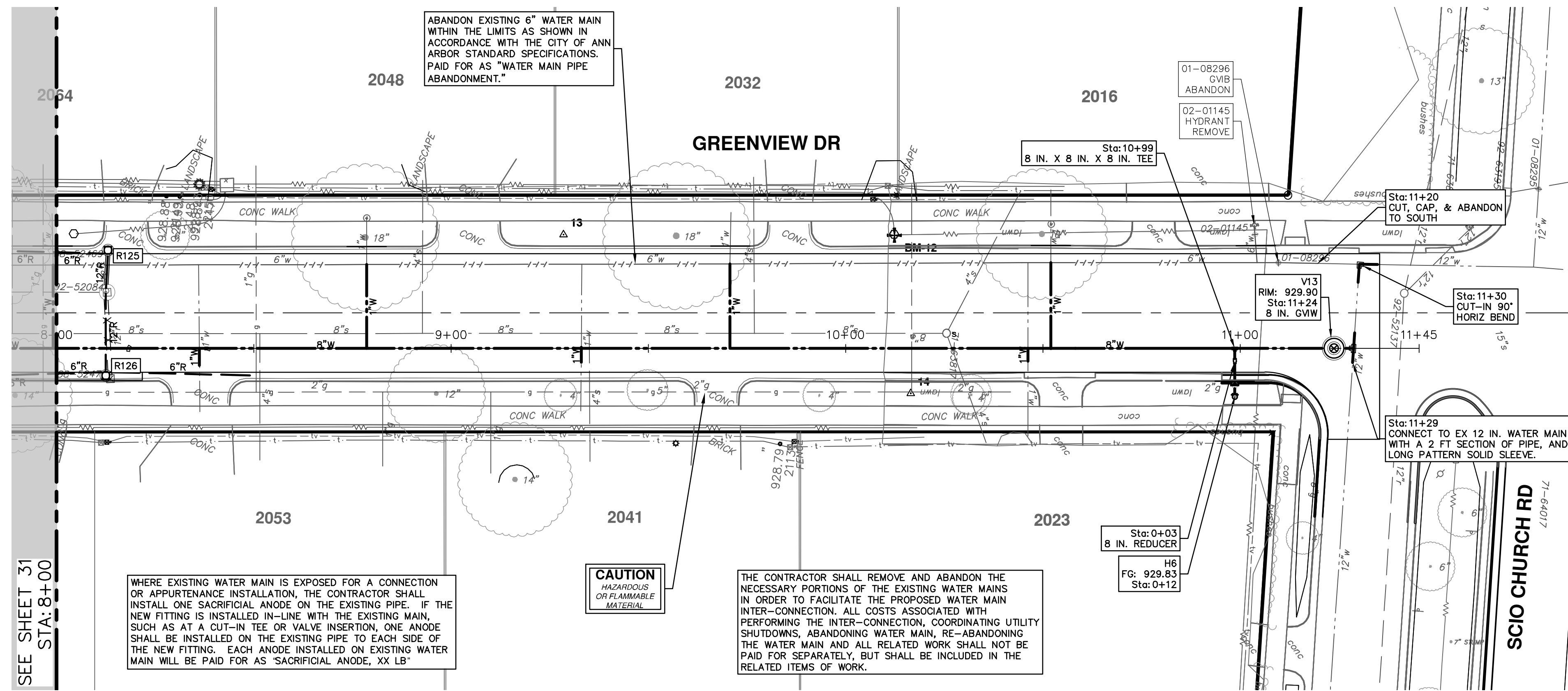
PROFILE: 1" = 2'

DRAWING NO. 2020031-31

SHEET NO. 31 OF 92



R:\2020031 S 7th Street\Plan Production\2020031Wat1.dwg Dwg Created: 30-Jan-24 - \_g2 standard bw.stb - Plot Date: 30-Jan-24



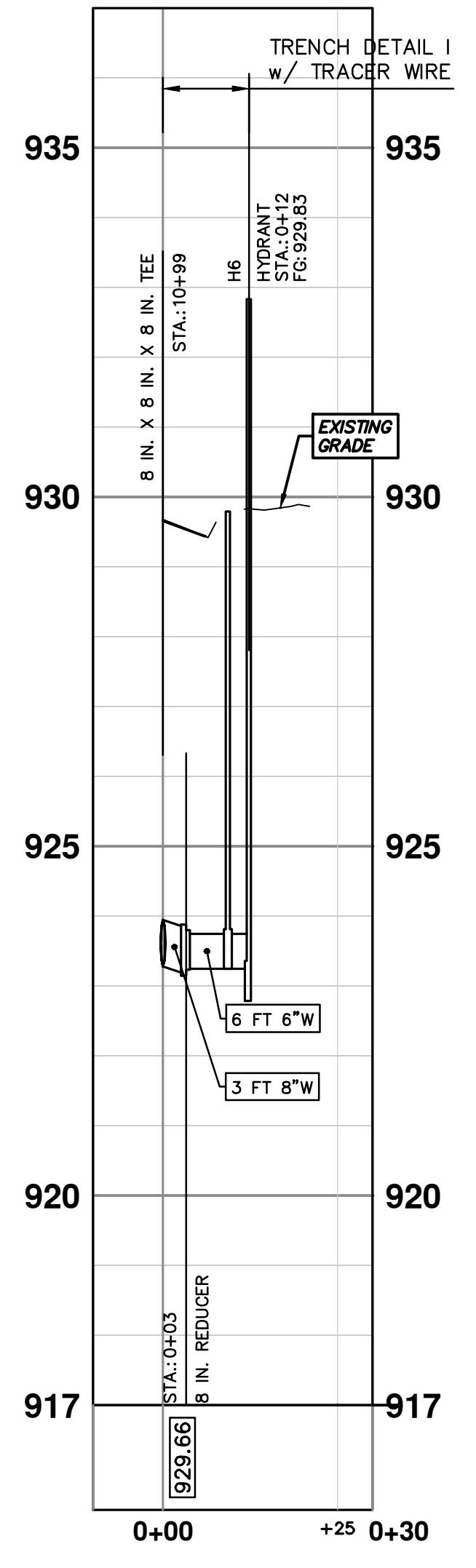
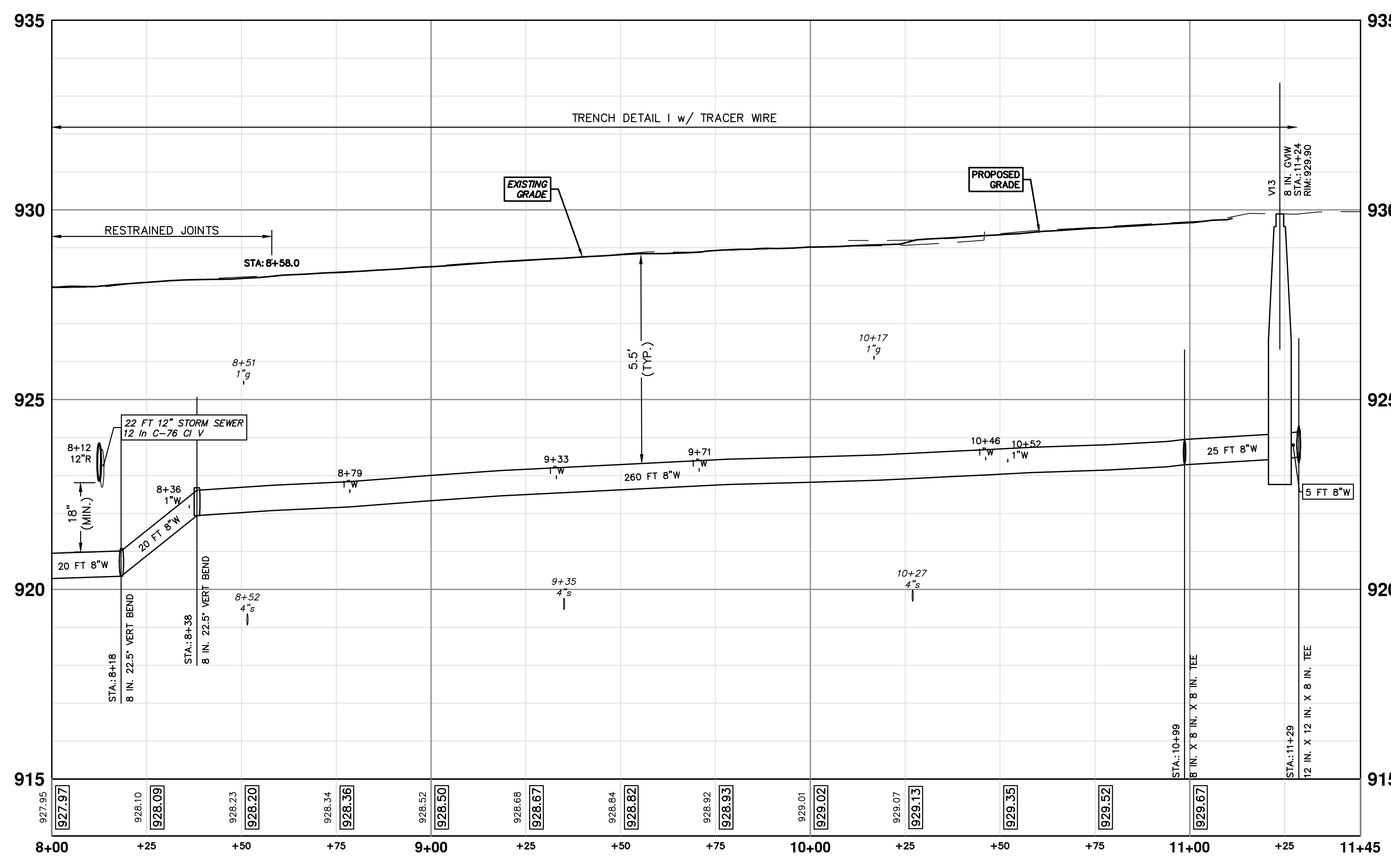
WATER MAIN STRUCTURES			
STRUCTURE	TYPE	STATION	FG
H6	HYDRANT	0+12	929.83

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.

DATE: 1-30-24  
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**CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING**

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

WATER MAIN - GREENVIEW DRIVE SOUTH

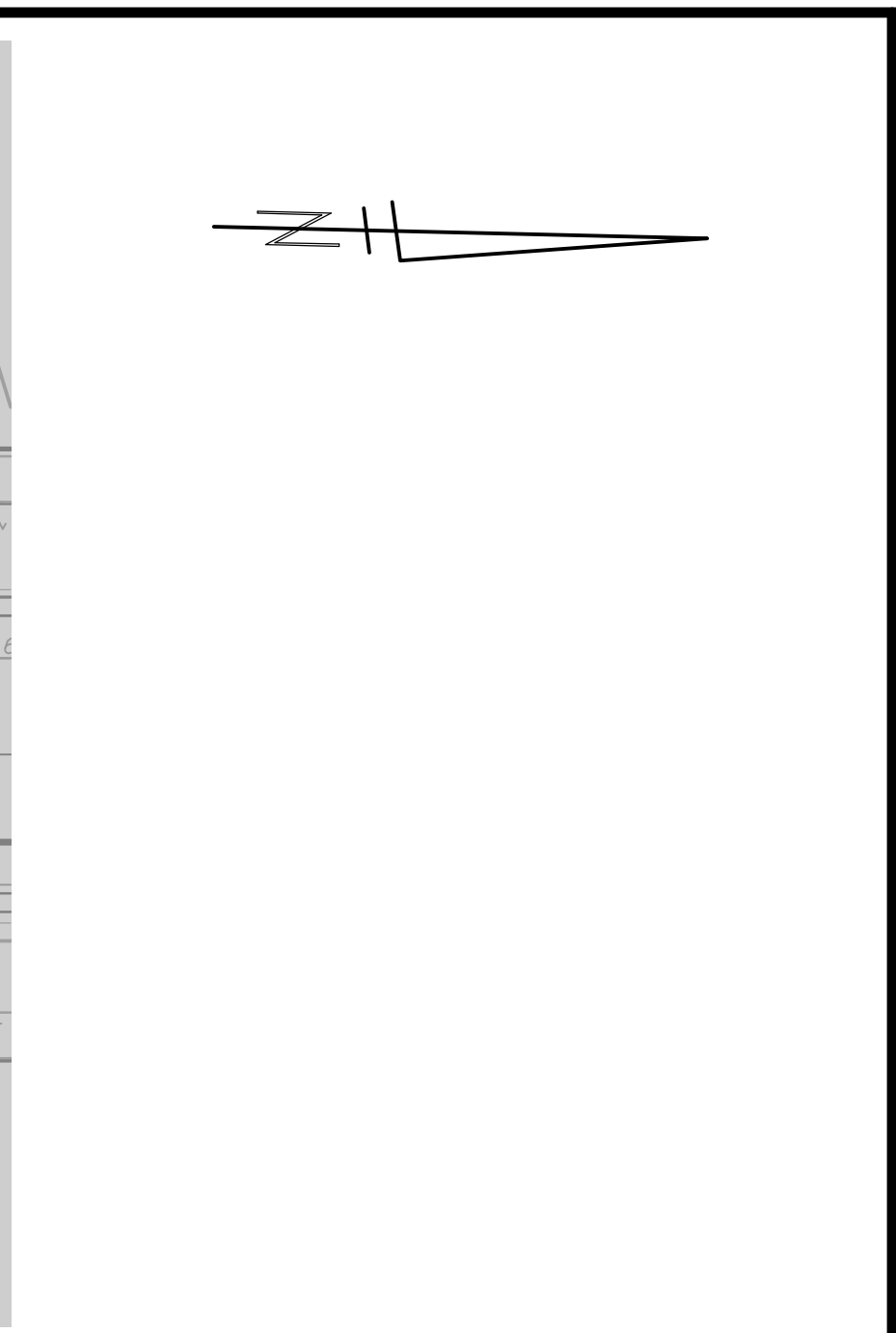
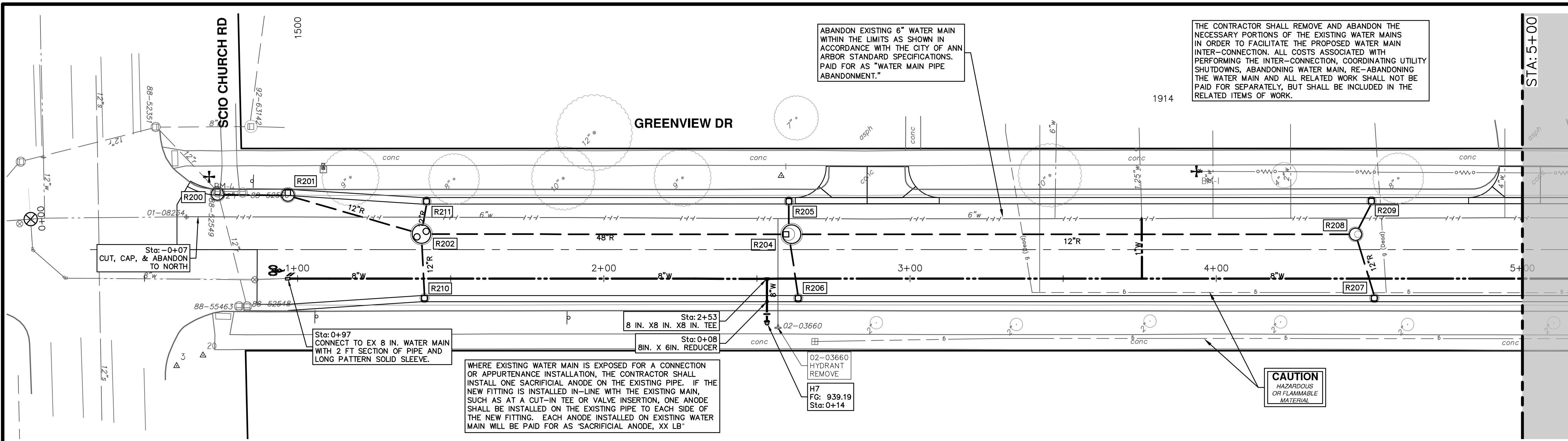
STA. 8+00 - STA. 11+28

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

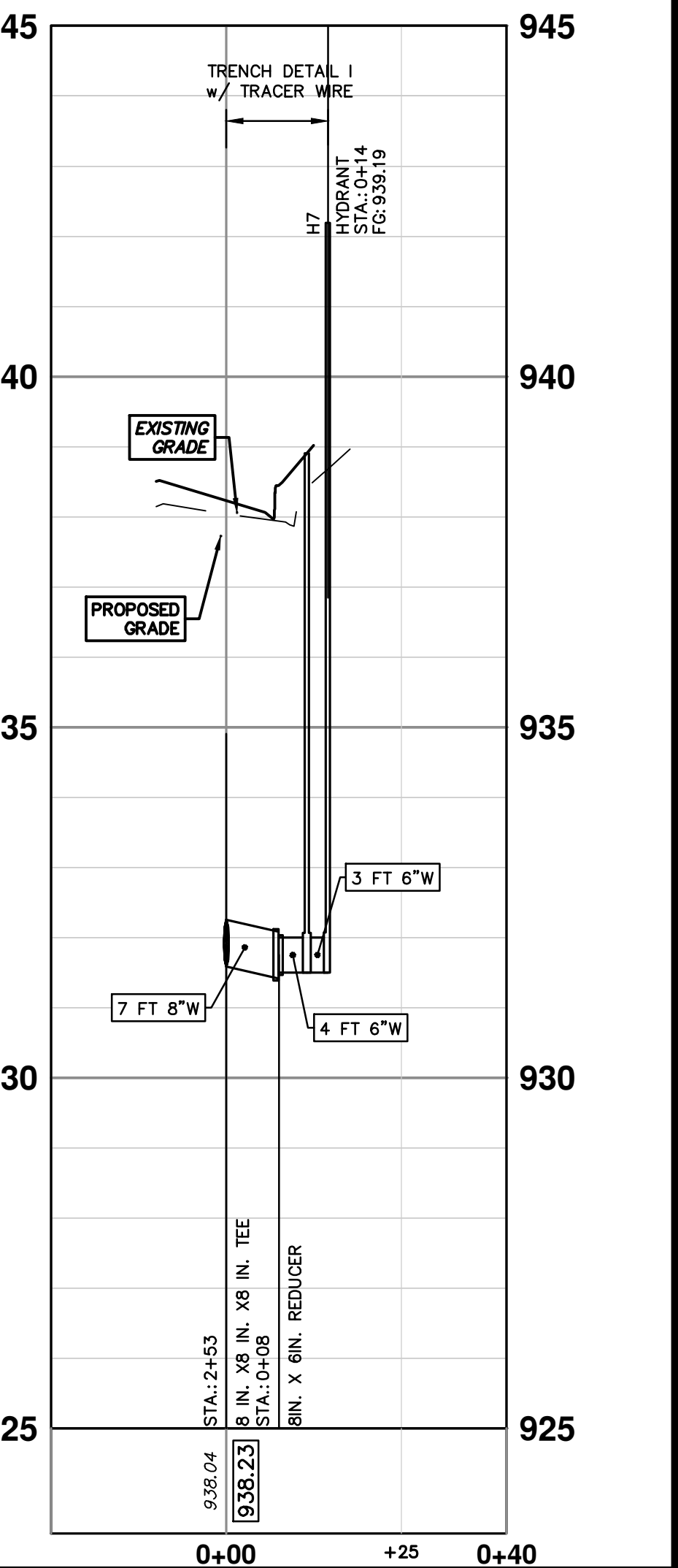
DRAWING No. 2020031-32  
SHEET No. 32 OF 92



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





Know what's below.  
Call before you dig.

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

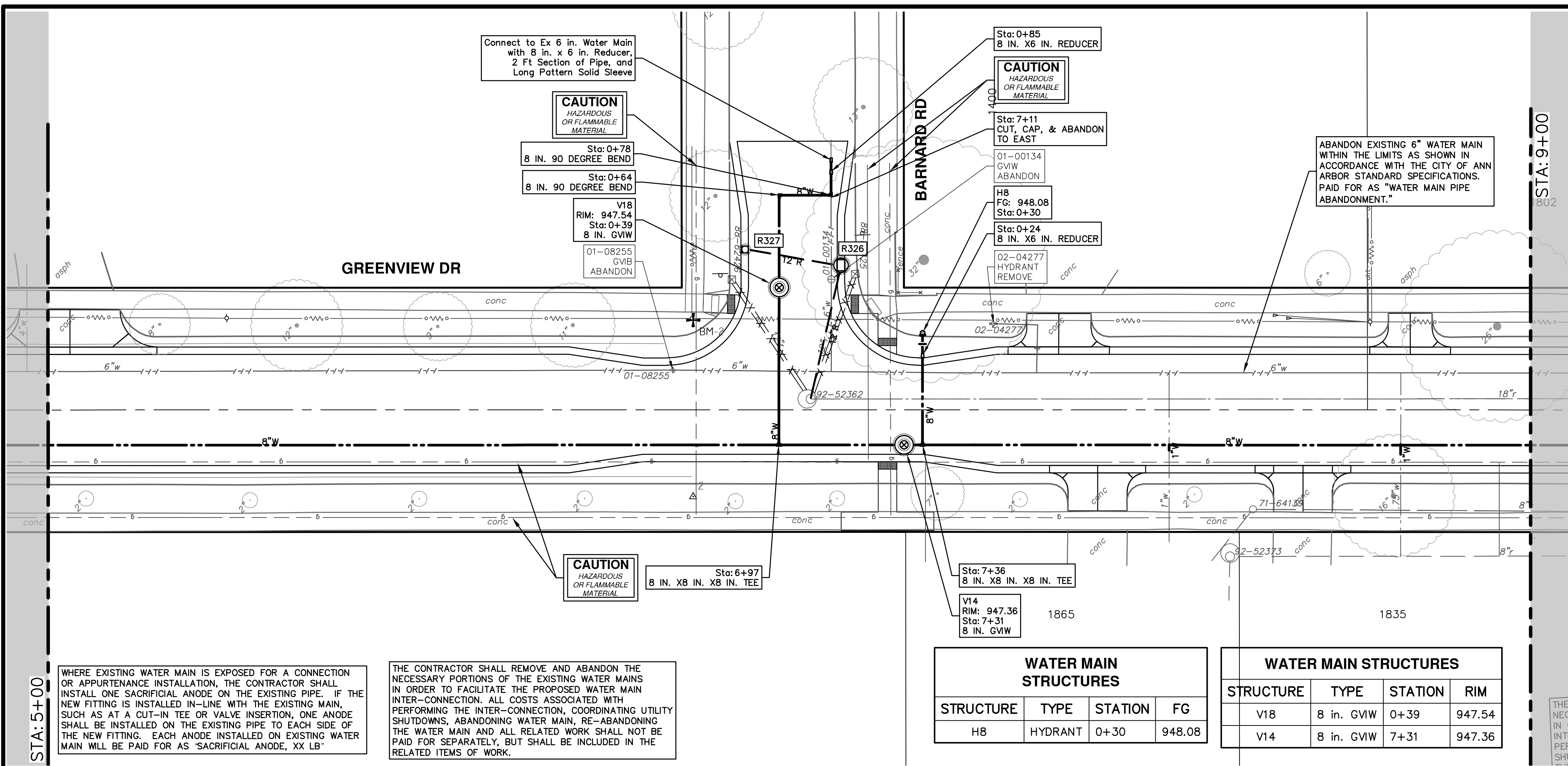


**CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING**  
 SCALE PLAN: 1" = 20'  
 PROFILE: 1" = 2'  
**S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS**  
 WATER MAIN - GREENVIEW DRIVE NORTH  
 STA. 0+97 - STA. 5+00

DRAWING No. **2020031-33**  
 SHEET No. **33 OF 92**



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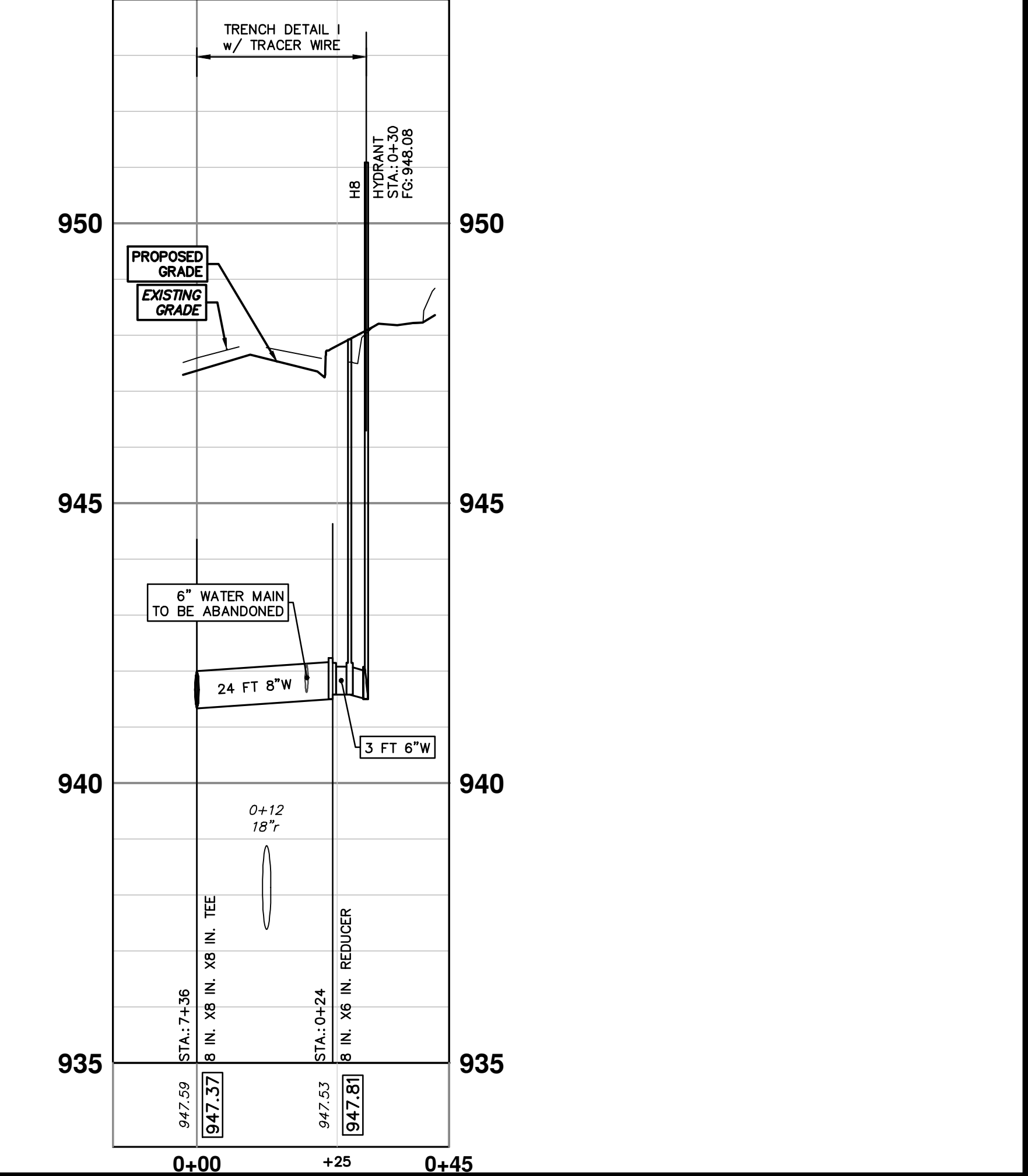
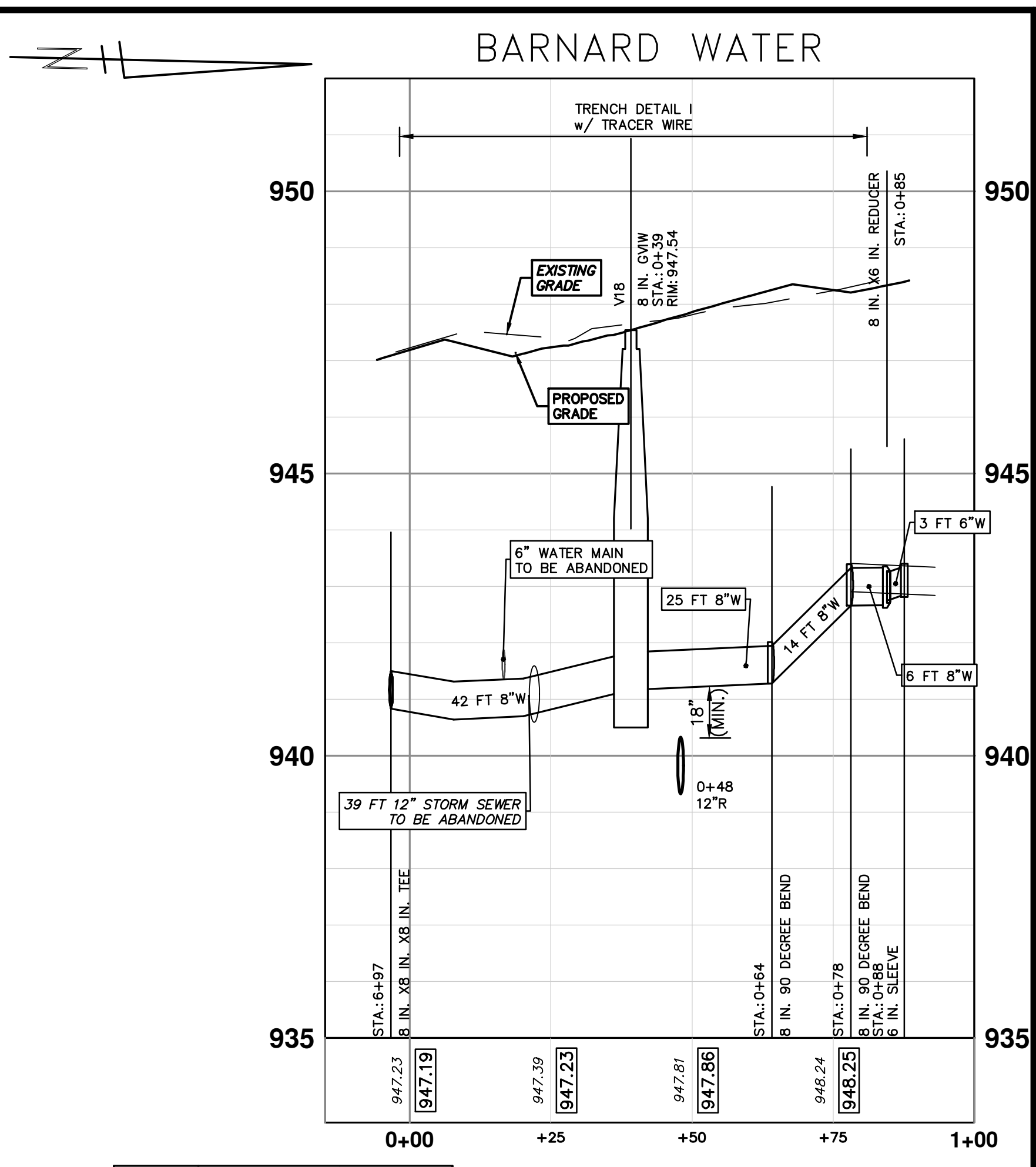
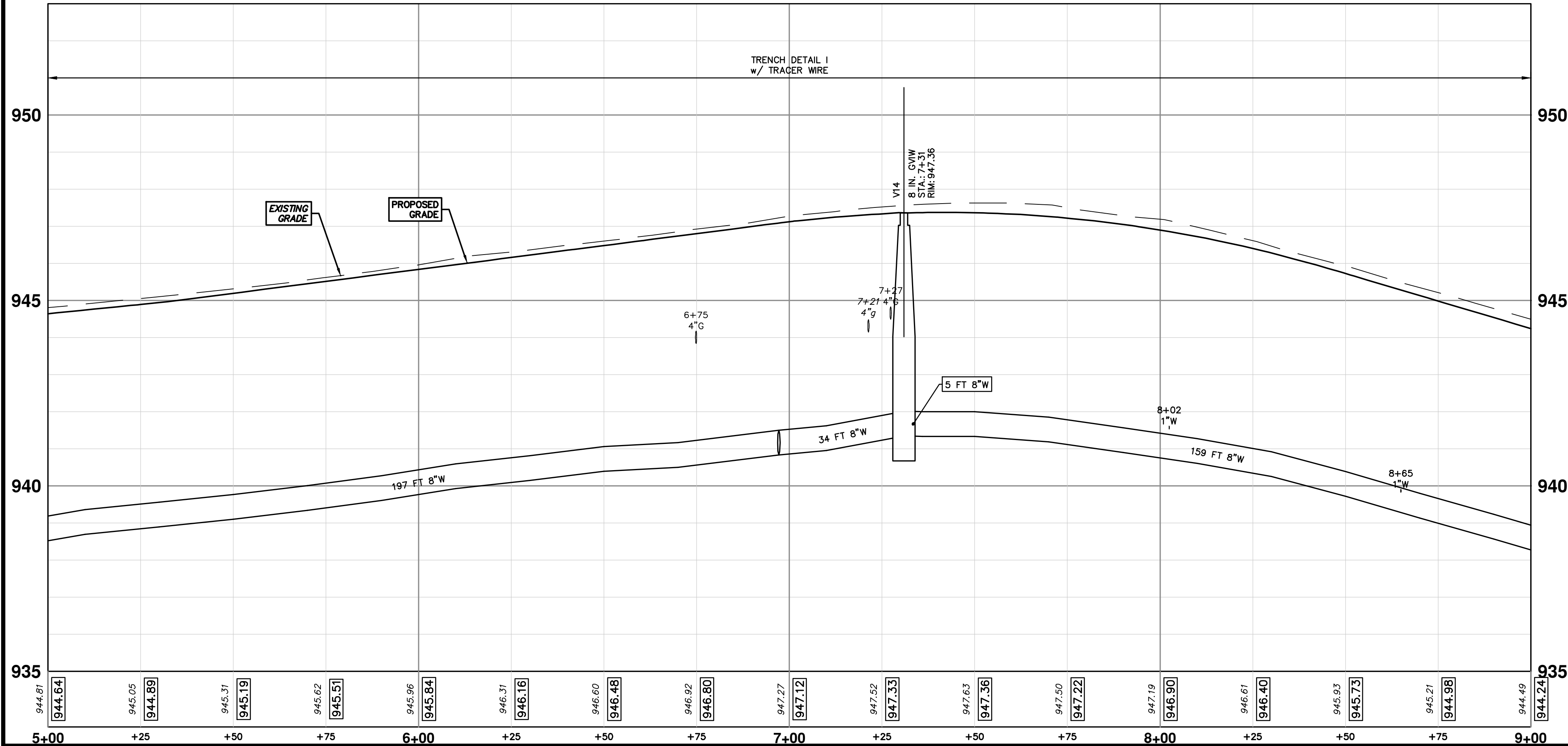


WATER MAIN STRUCTURES			
STRUCTURE	TYPE	STATION	FG
H8	HYDRANT	0+30	948.08

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

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.





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Call Before you dig.

REV.	DATE	DESCRIPTION
00	1-30-24	BID SET
01		DRAWN
02		CHECKED

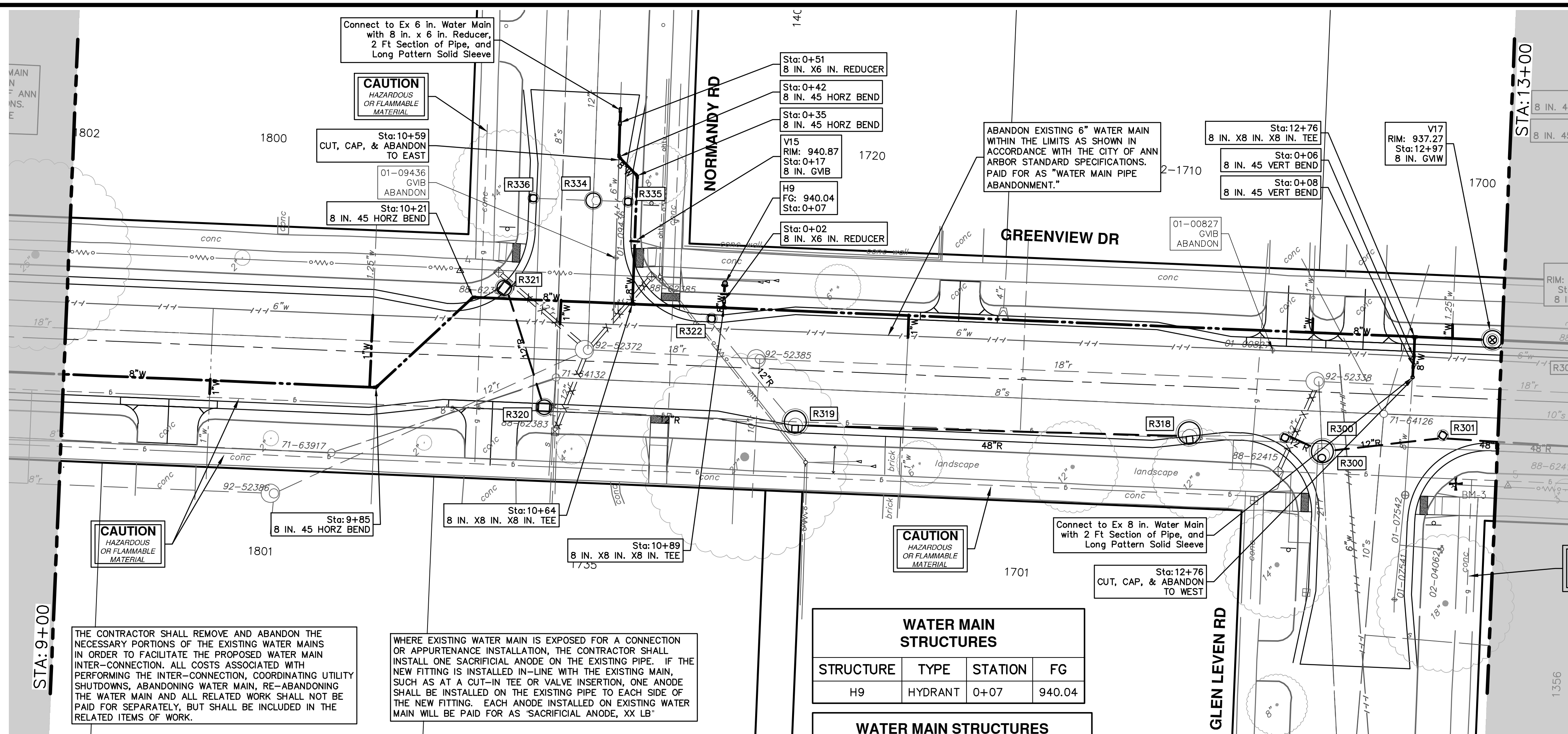


CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING  
 S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS  
 WATER MAIN - GREENVIEW DRIVE NORTH  
 STA. 5+00 - STA. 9+00

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



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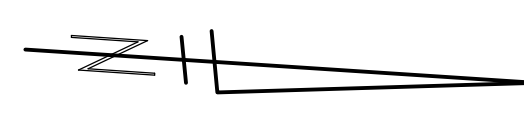
**WATER MAIN STRUCTURES**

STRUCTURE	TYPE	STATION	FG
H9	HYDRANT	0+07	940.04

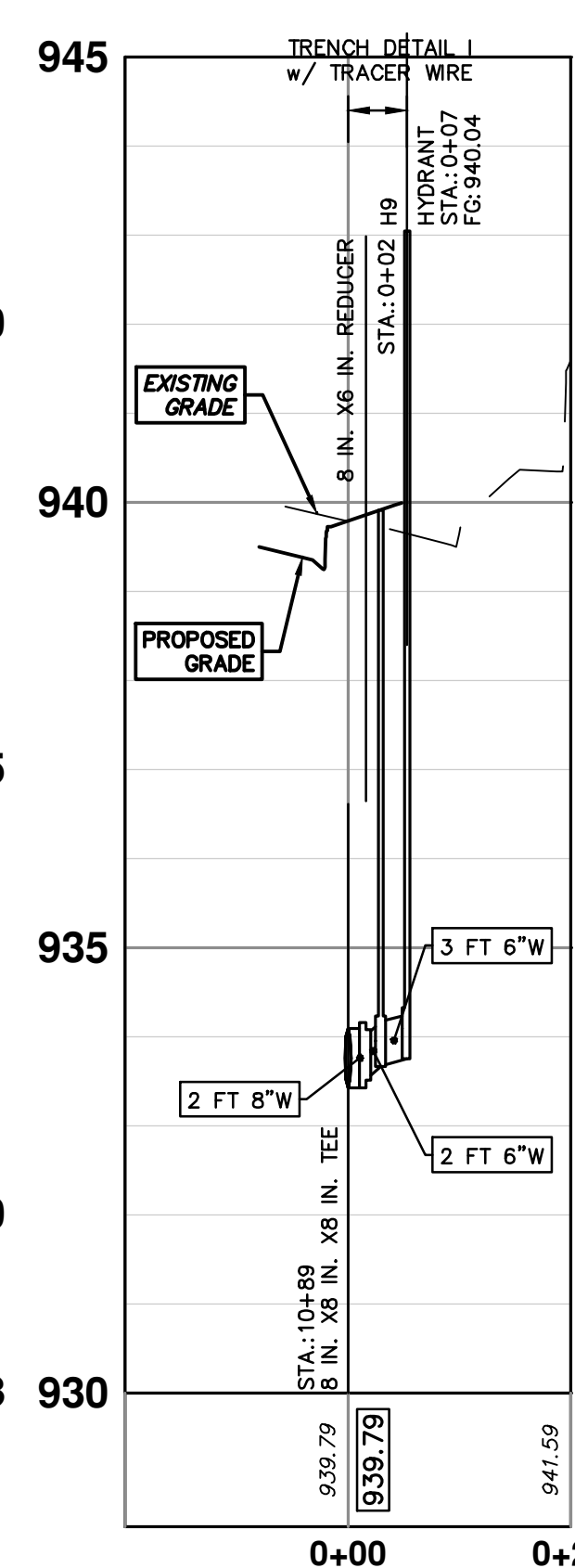
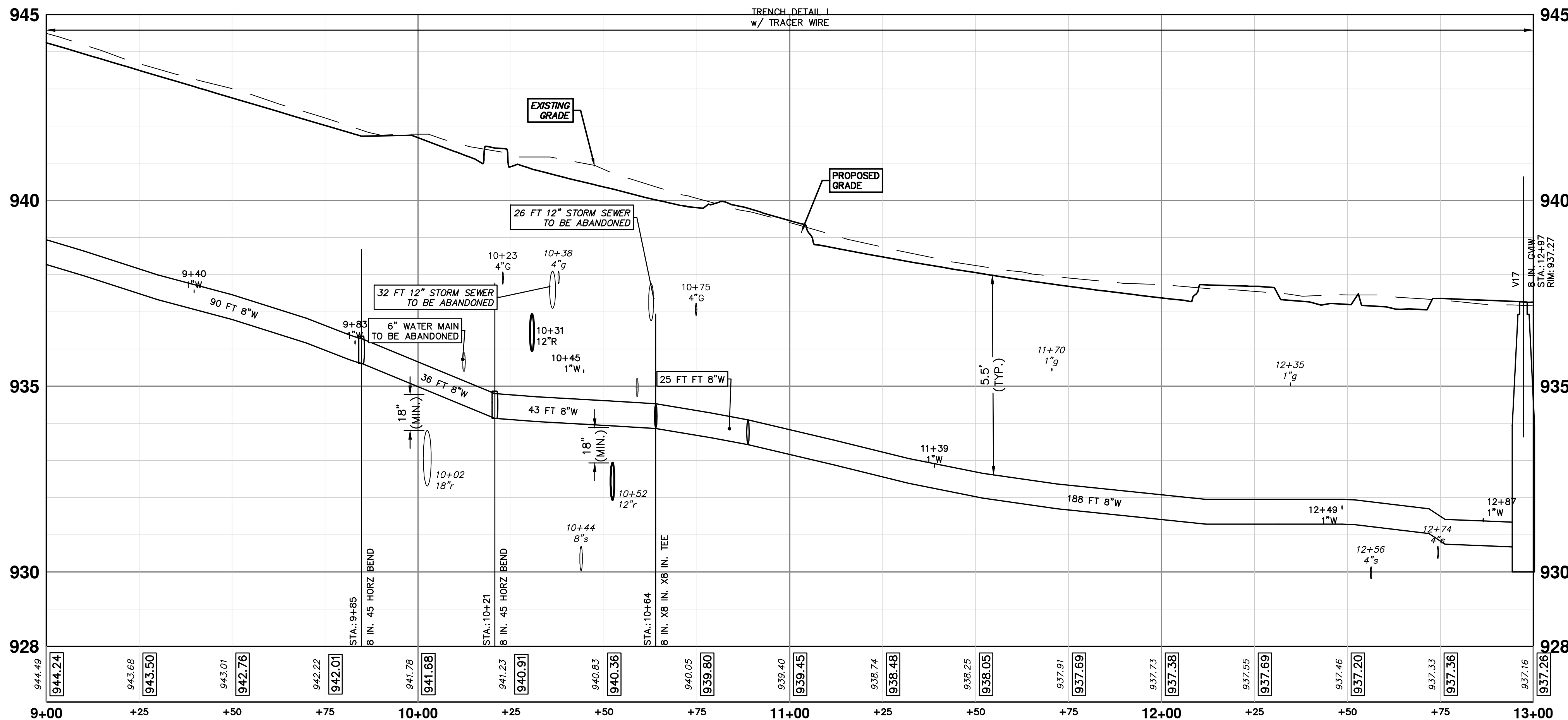
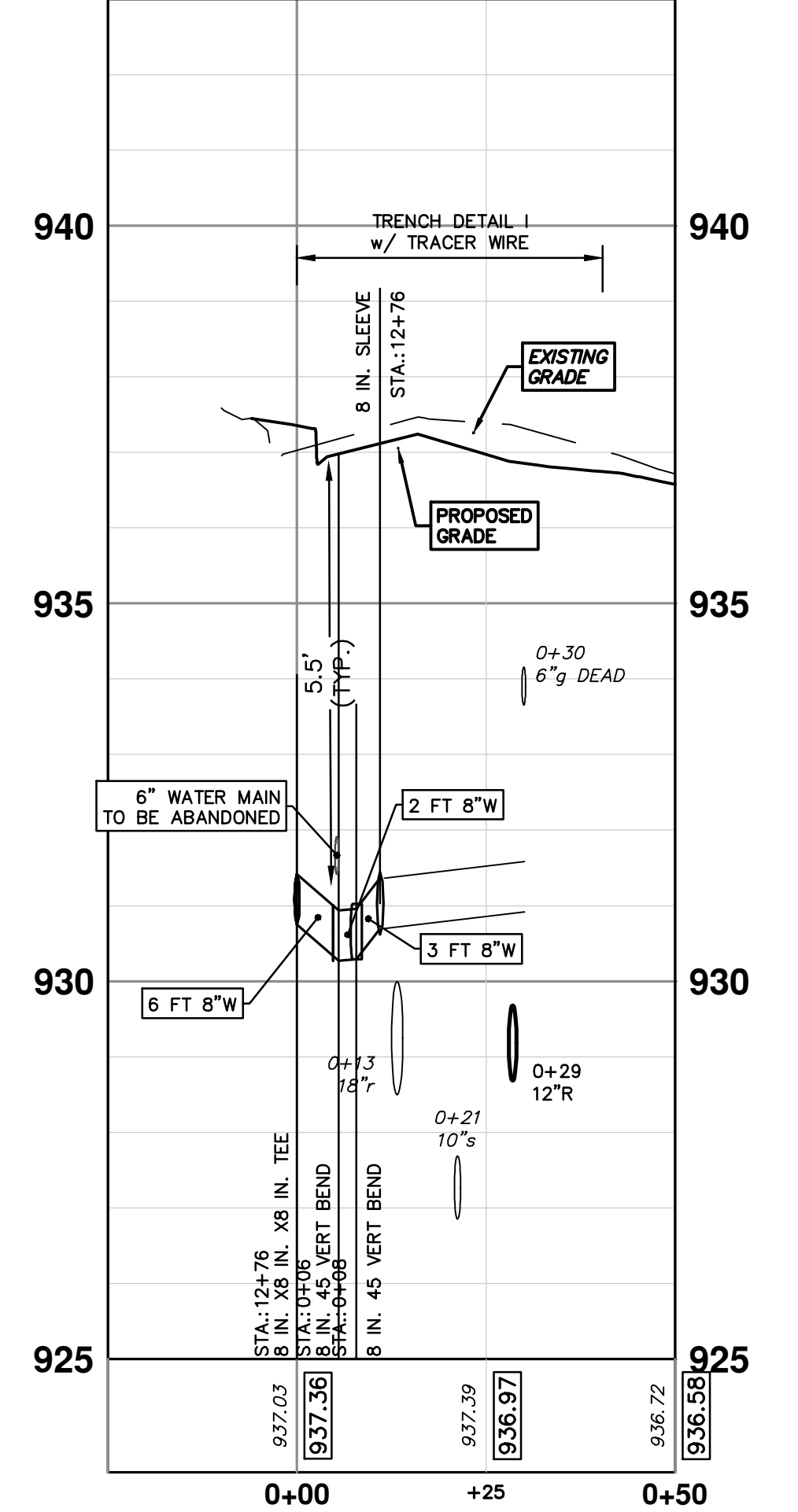
  

**WATER MAIN STRUCTURES**

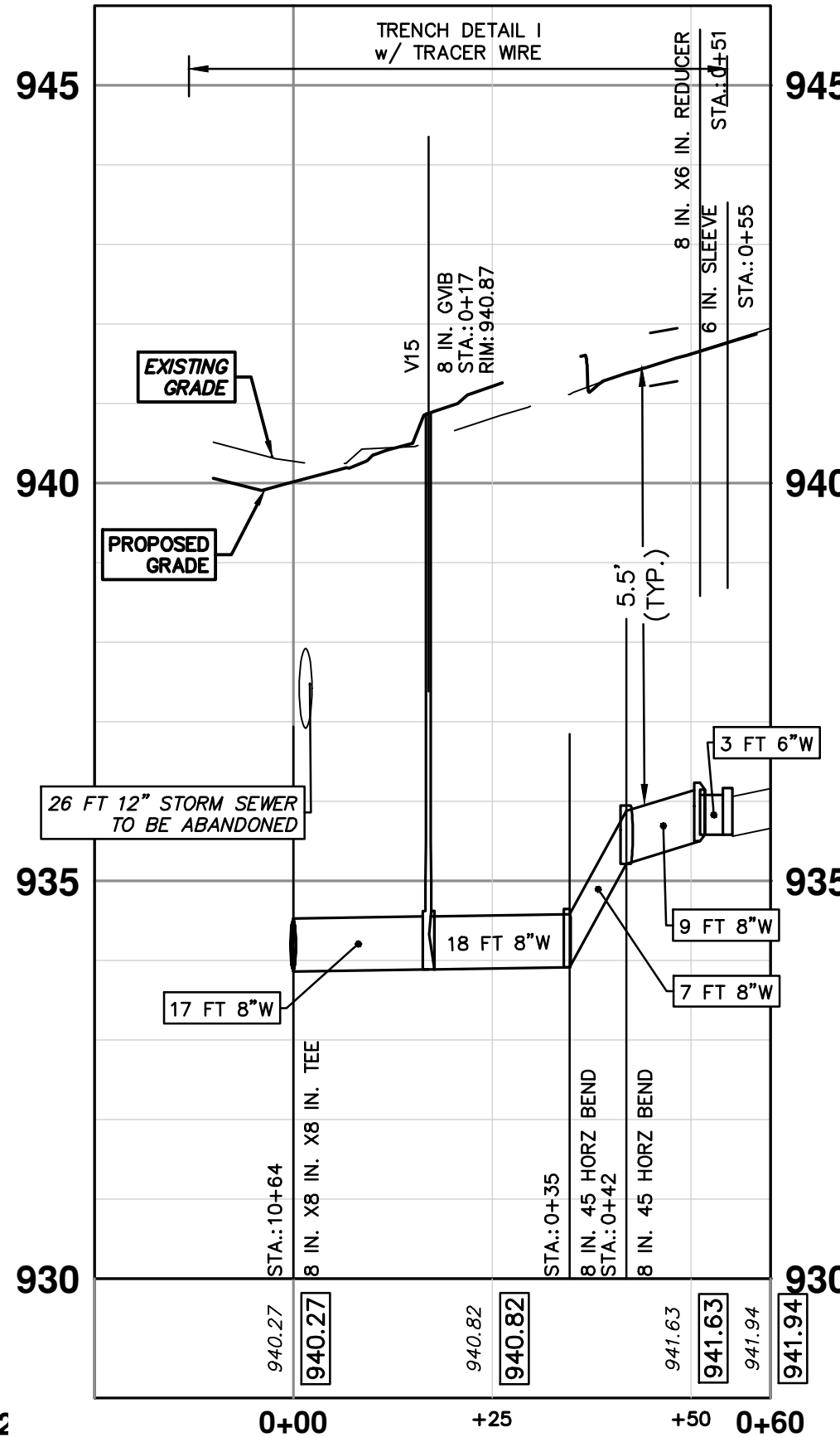
STRUCTURE	TYPE	STATION	RIM
V15	8 in. GVB	0+17	940.87
V17	8 in. GVW	12+97	937.27



**GLEN LEVEN WATER**



**NORMANDY WATER**



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

CITY OF ANN ARBOR  
PUBLIC SERVICES  
301 EAST HURON STREET  
ANN ARBOR, MI 48106-1667  
www.a2gov.org

REV.	DATE	DESCRIPTION	BY	CHKD
00	1-30-24	BID SET	AZD	CHECKED

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

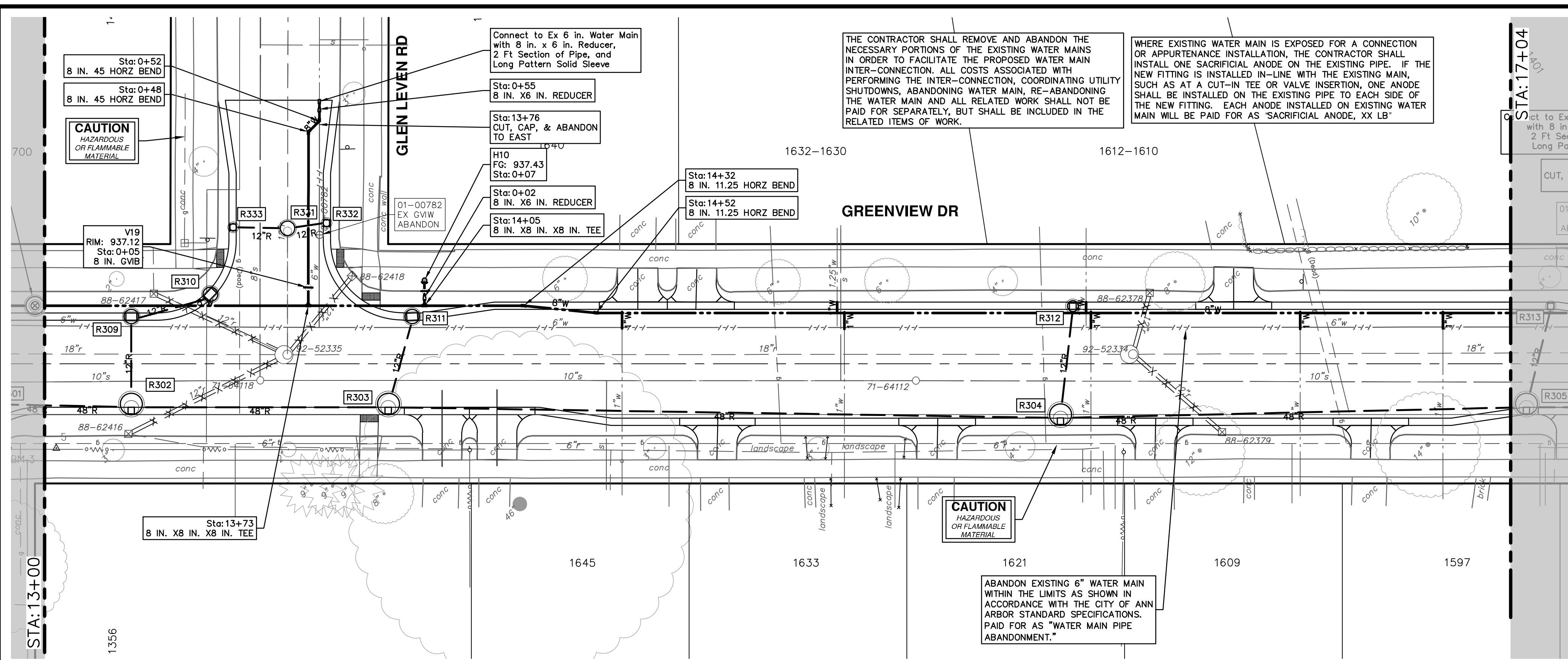
STA. 9+00 - STA. 13+00

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

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

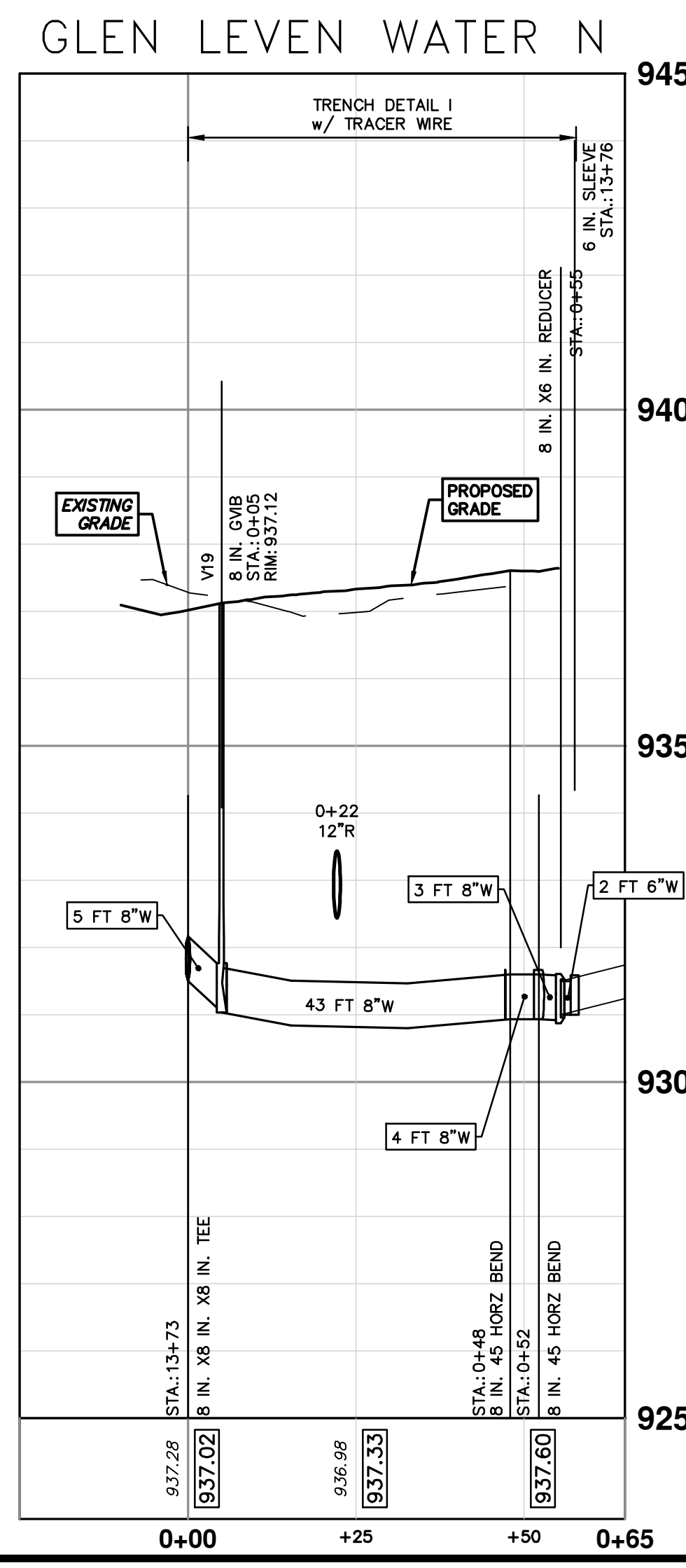
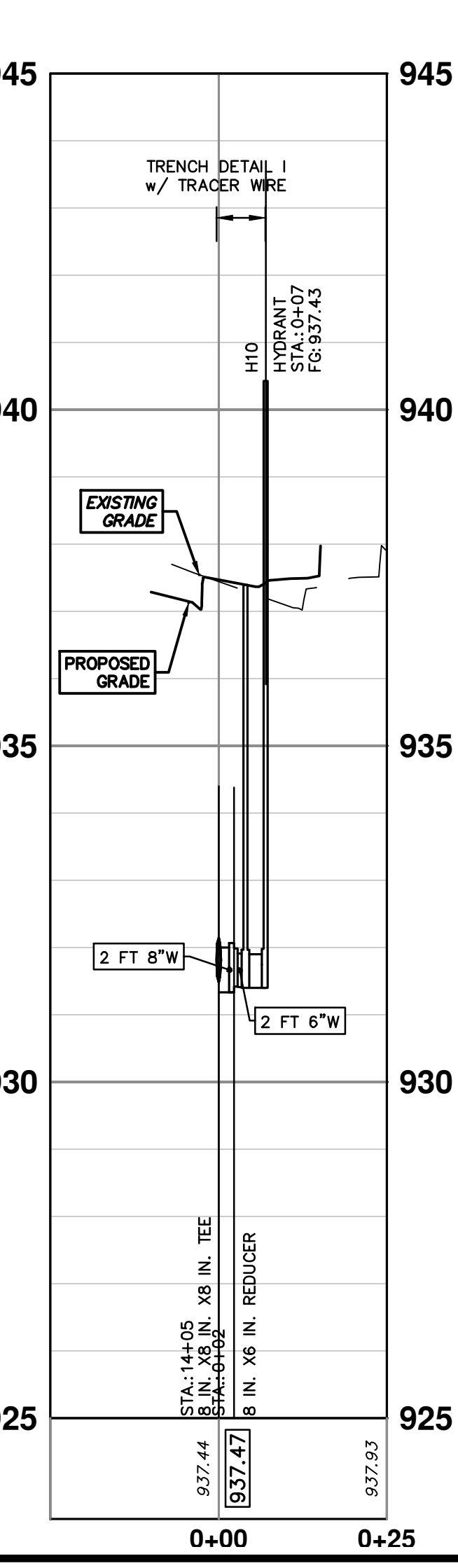
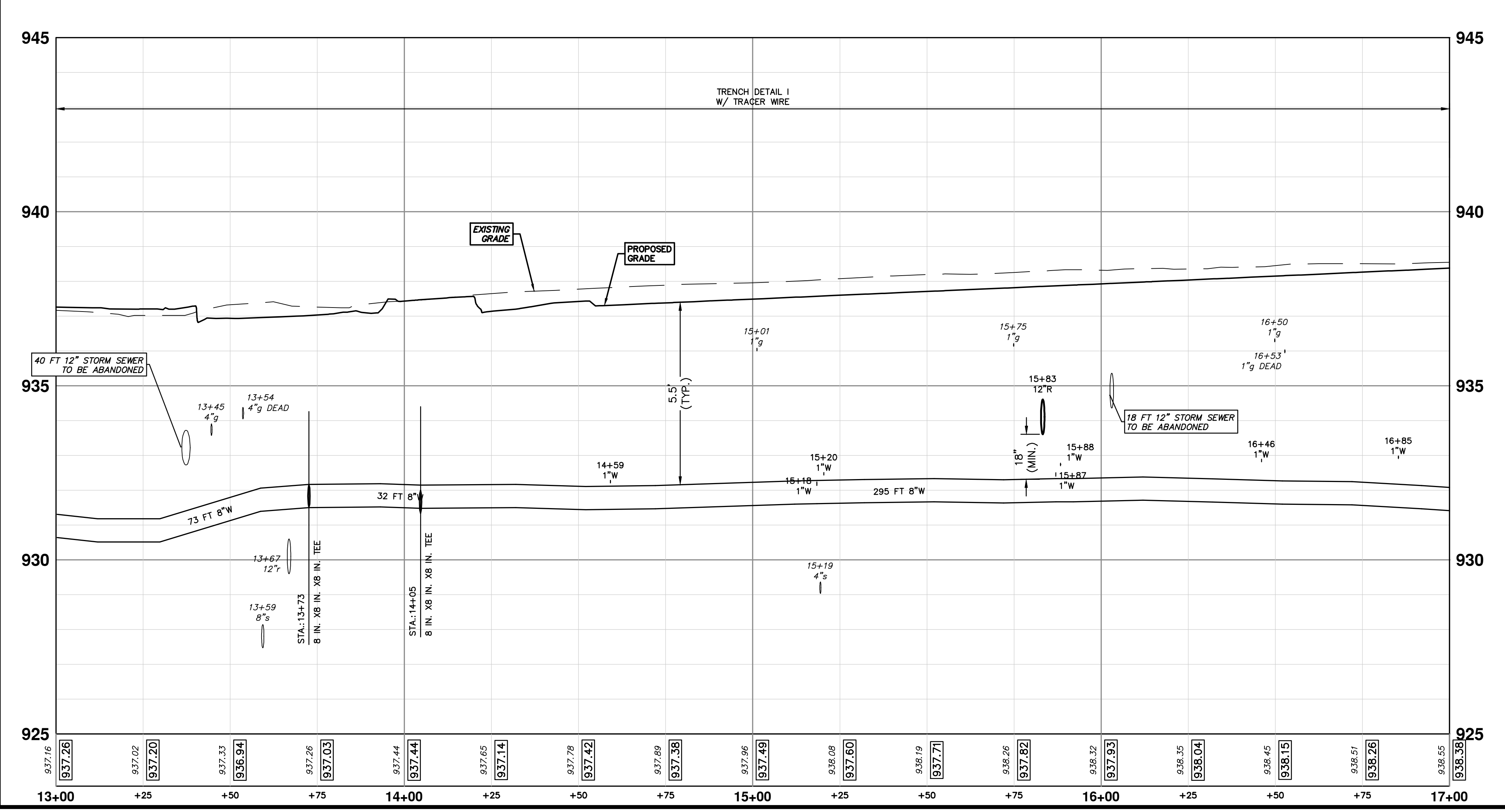


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WATER MAIN STRUCTURES			
STRUCTURE	TYPE	STATION	FG
H10	HYDRANT	0+07	937.43

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



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Know what's below.  
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REV.	DATE	DESCRIPTION
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01		TA
02		DRAWN
03		CHECKED

**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'

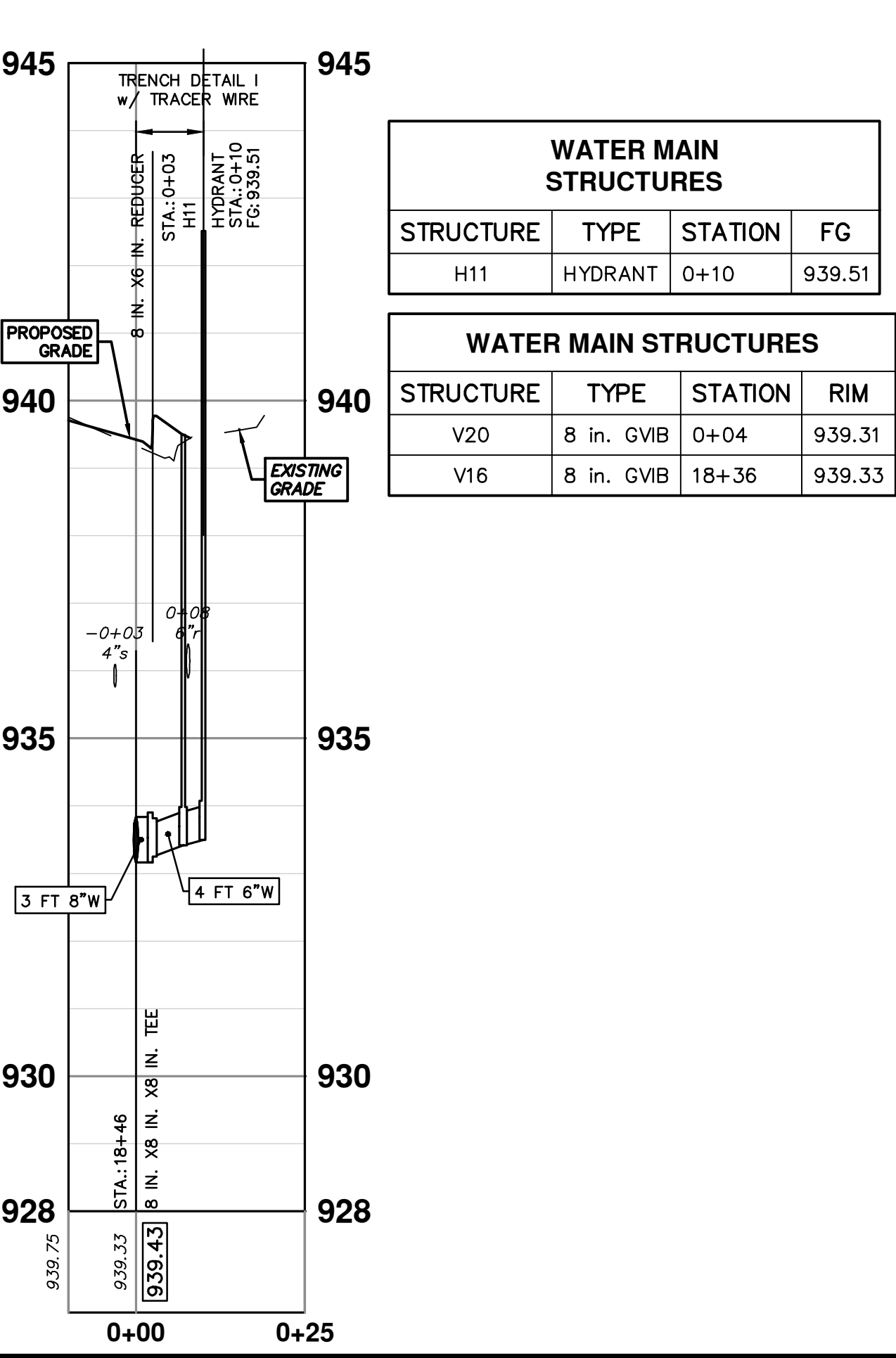
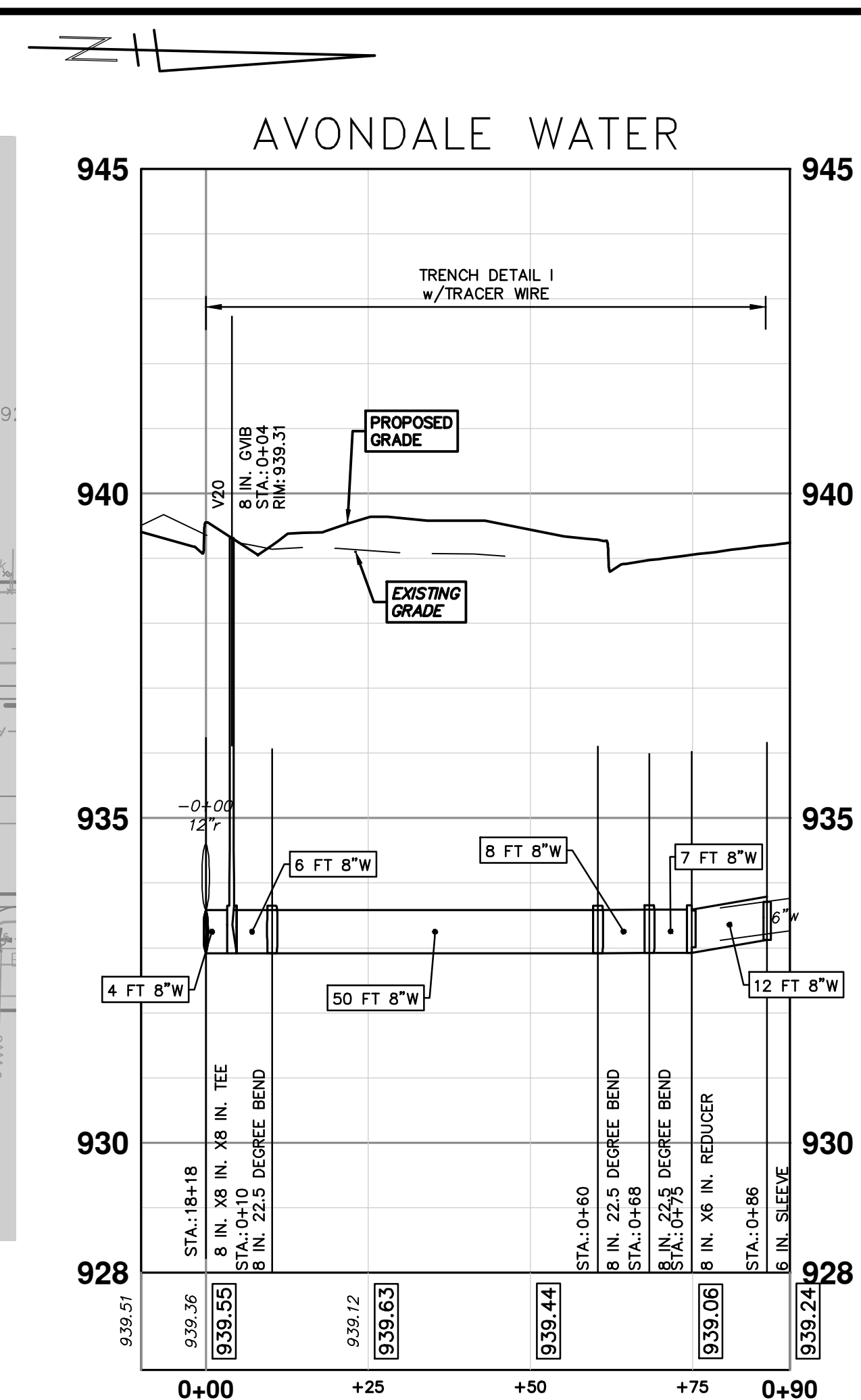
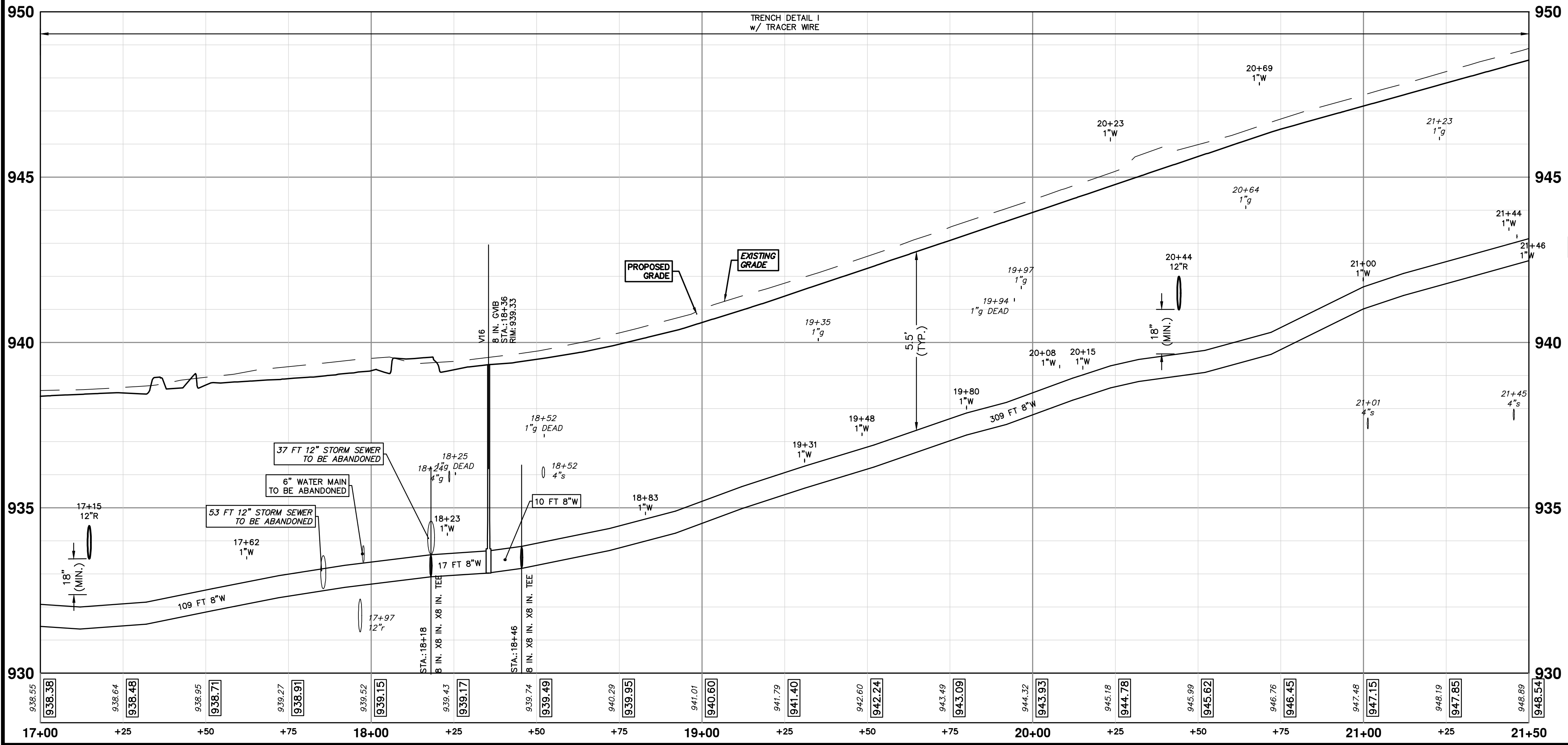
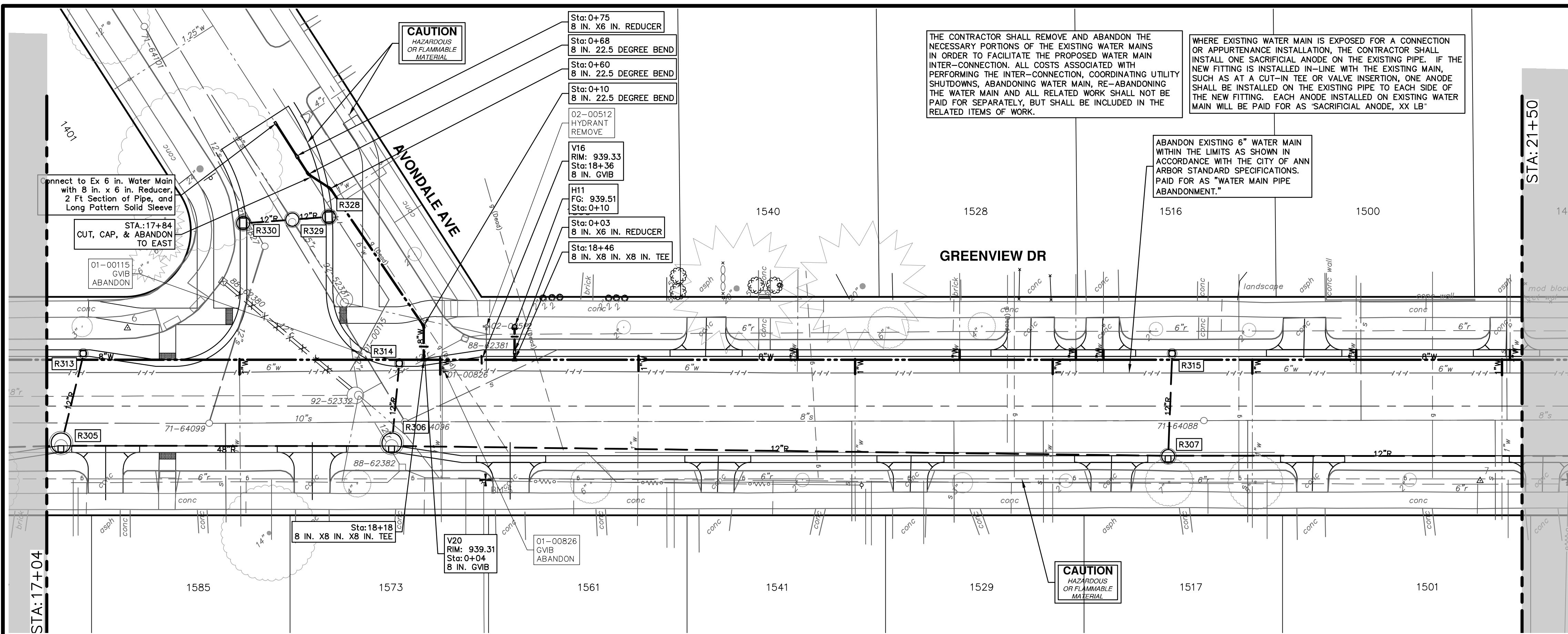
PROFILE: 1" = 2'

DRAWING NO. 2020031-36

SHEET NO. 36 OF 92



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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

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.


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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."



Know what's below.  
Call before you dig.

NO.	DATE	DESCRIPTION	REV.
00	1-30-24	BID SET	0
01			1
02			2
03			3
04			4
05			5
06			6
07			7
08			8
09			9
10			10

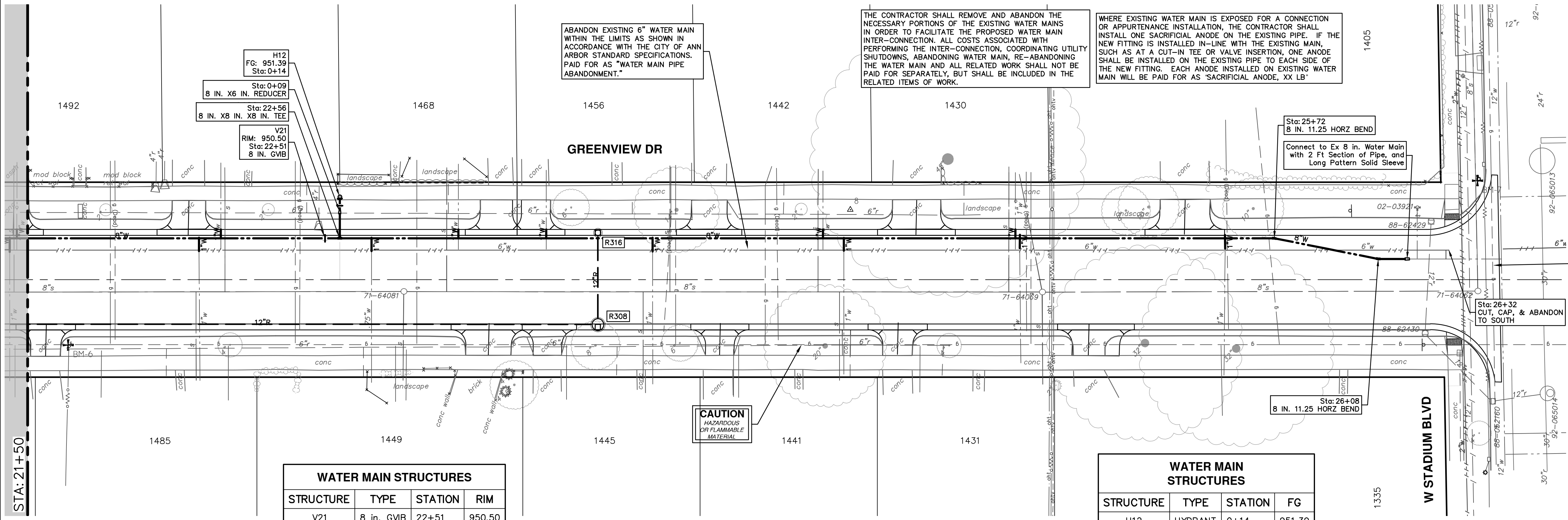


**CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING**  
**S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS**  
 WATER MAIN - GREENVIEW DRIVE NORTH  
 STA. 17+00 - STA. 21+50

SCALE PLAN: 1" = 20'  
 PROFILE: 1" = 2'  
 SHEET NO. 37 OF 92  
 DRAWING NO. 2020031-37

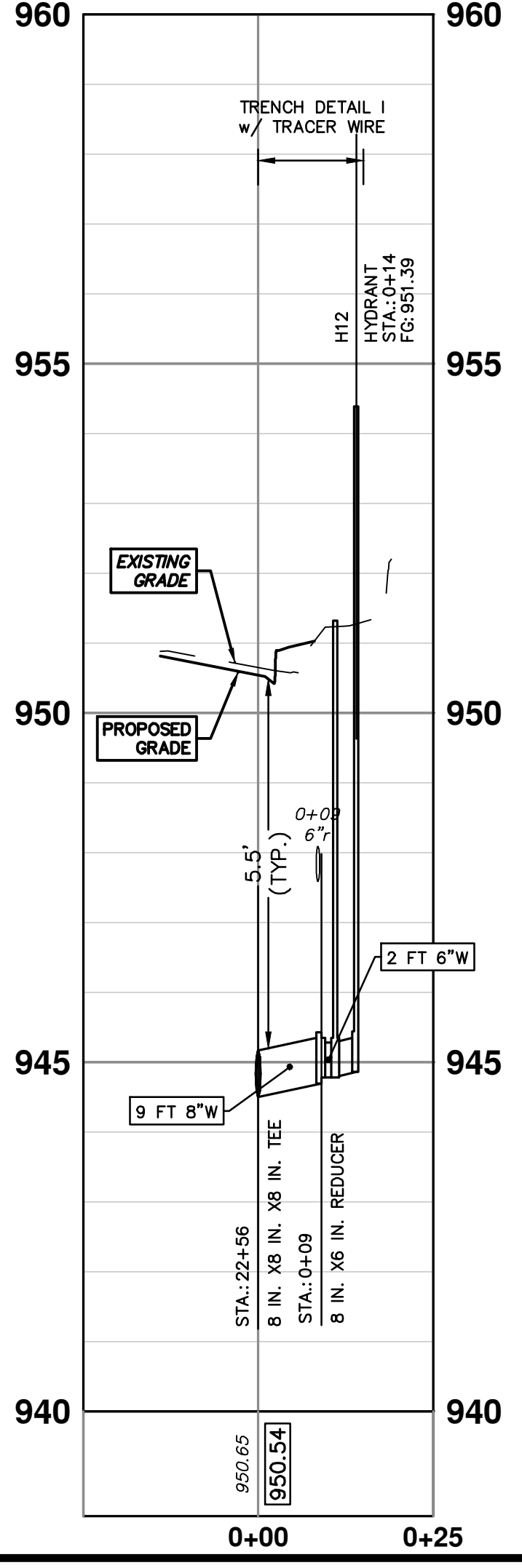
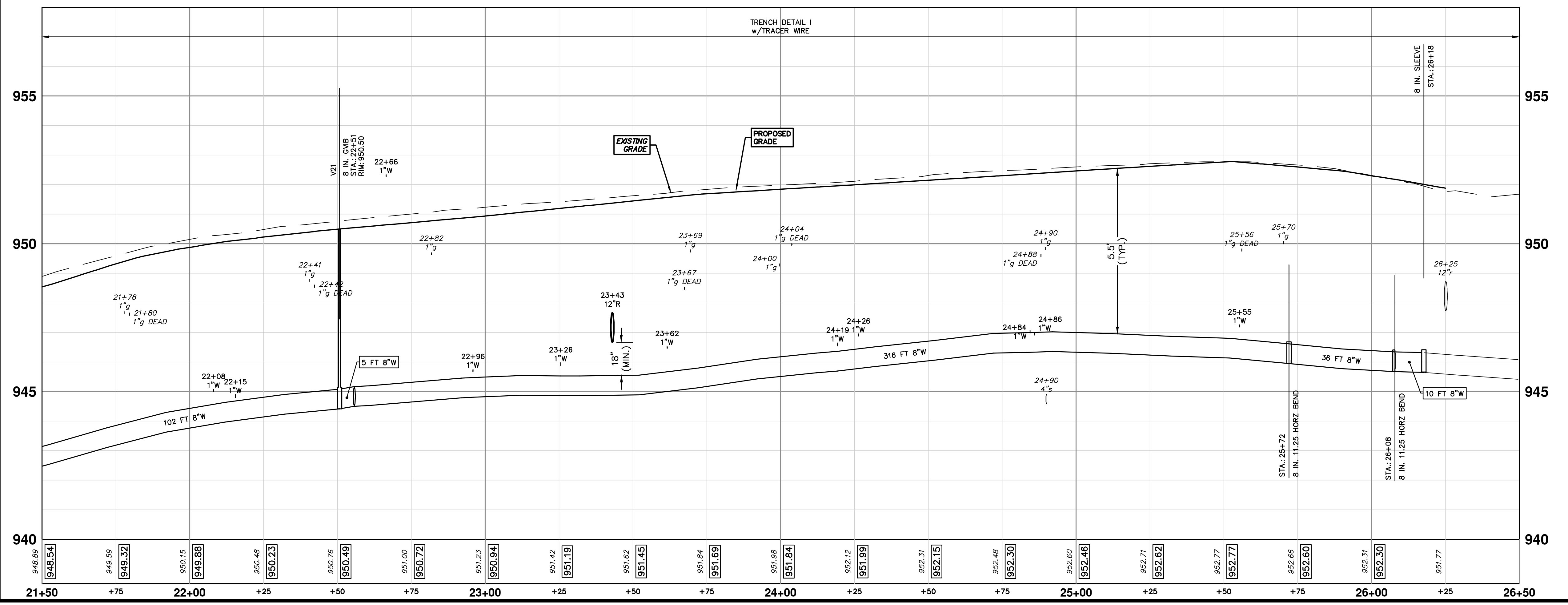


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WATER MAIN STRUCTURES			
STRUCTURE	TYPE	STATION	RIM
V21	8 in. GVB	22+51	950.50

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



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

City of Ann Arbor  
Public Services  
301 East Huron Street  
Ann Arbor, MI 48106-8647  
www.a2gov.org

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

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

WATER MAIN - GREENVIEW DRIVE NORTH

PROFILE: 1" = 2'

SCALE PLAN: 1" = 20'

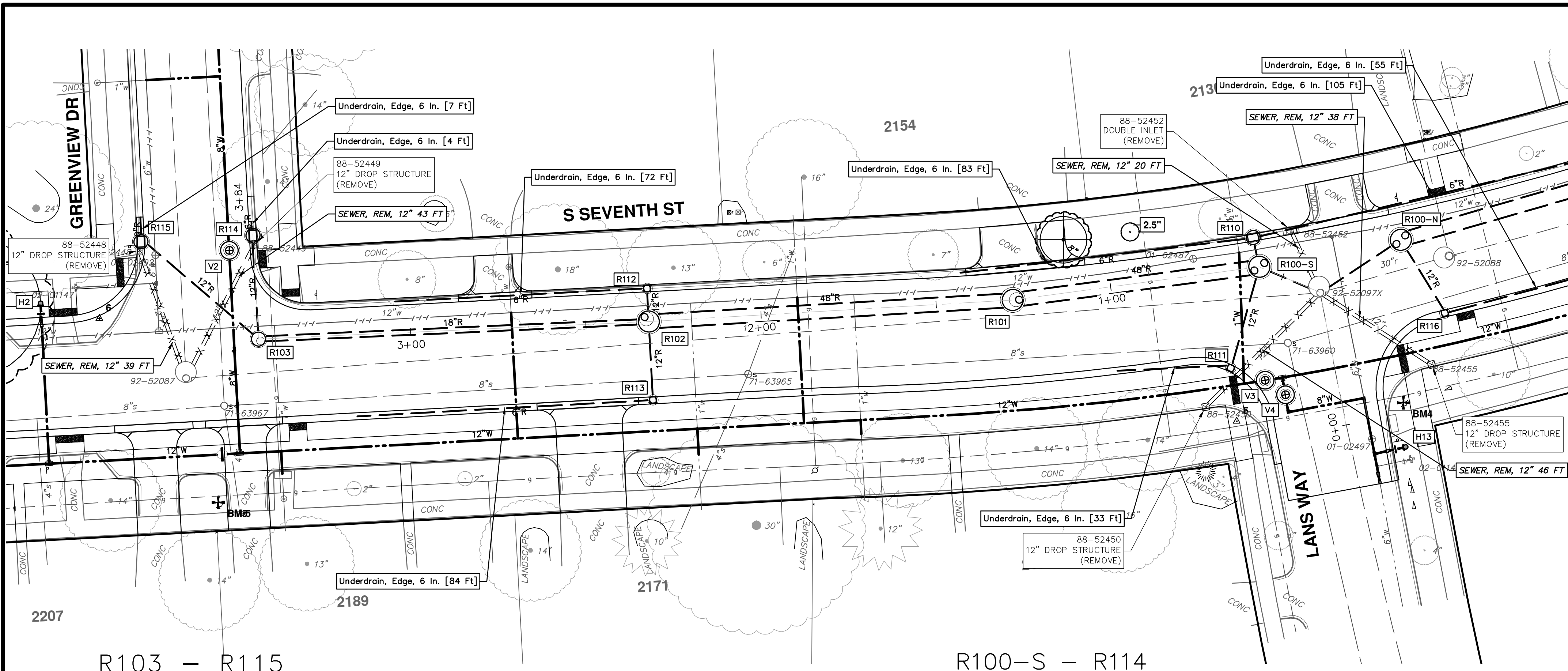
DRAWING NO. 2020031-38

STA. 21+50 - STA. 26+13

38 OF 92

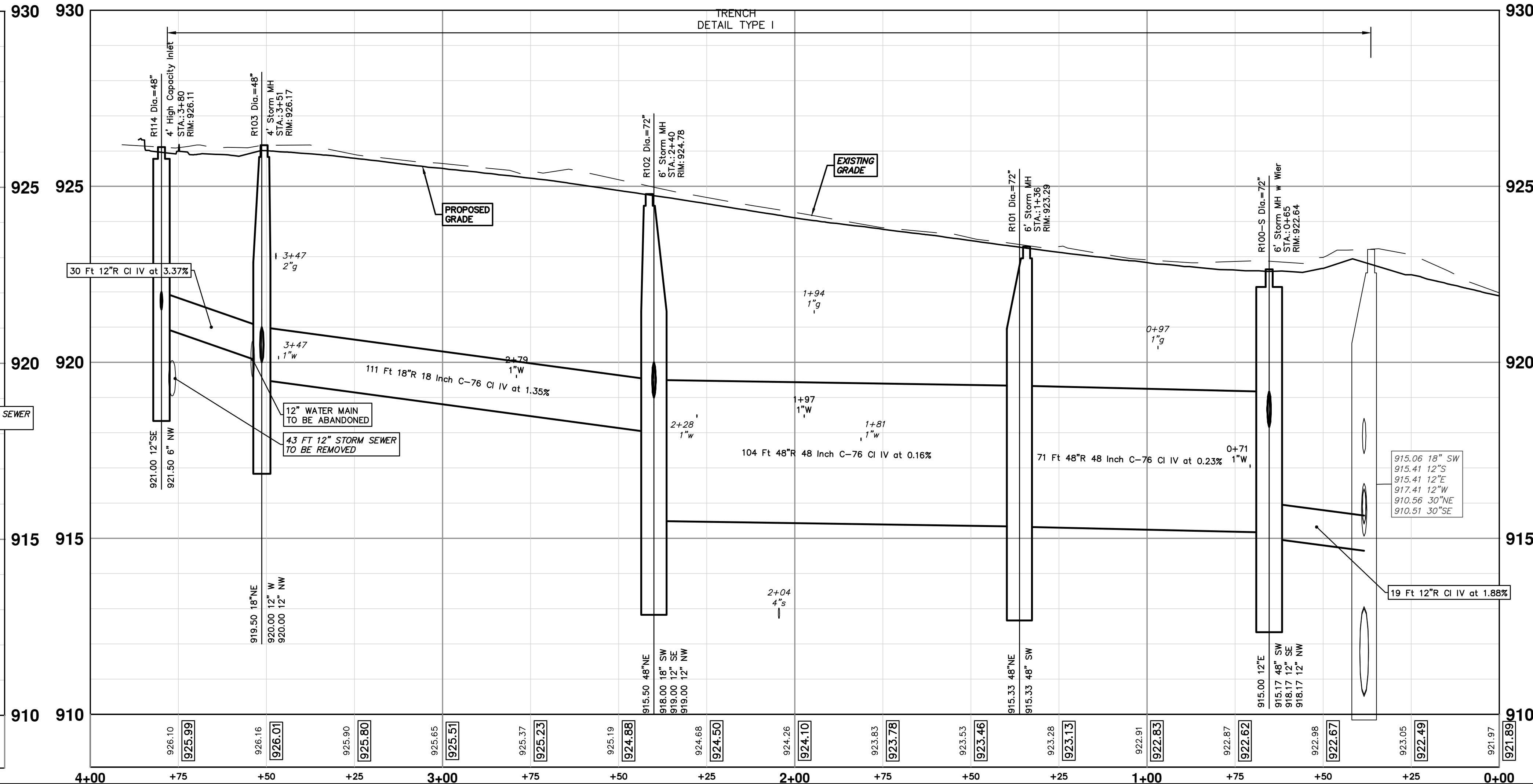
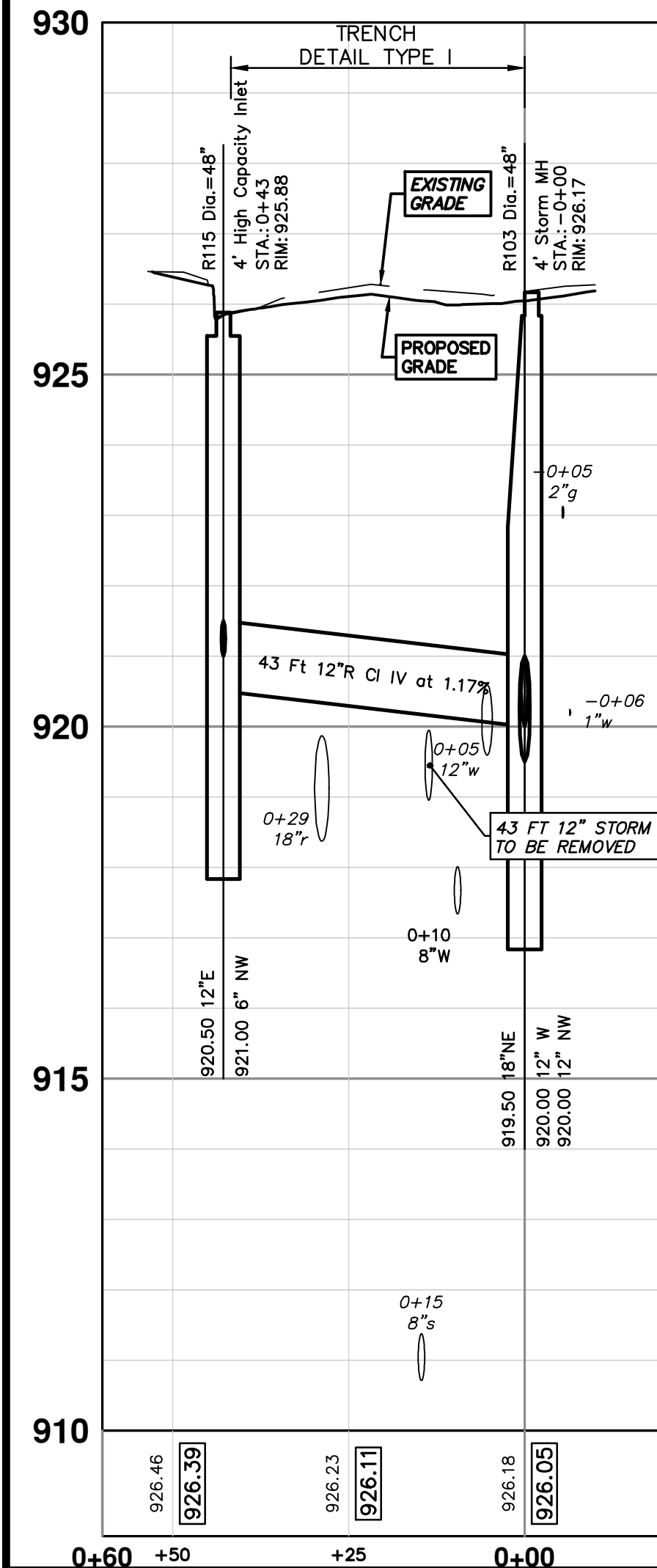


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STRUCTURE	UTILITY STATION	TYPE	RIM	INVERTS	DEPTH (Feet)	SUMP
R100-S	0+11	6' Storm MH w Wier	922.64	48" SW 915.17 12" SE 918.17 12" NW 918.17 12" E 915.00	9.64	2'
R101	1+28	6' Storm MH	923.29	48" SW 915.33 48" NE 915.33	9.95	2'
R102	2+32	6' Storm MH	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
88-52448	6.34	12" Drop Structure (REMOVE)
88-52449	7.04	12" Drop Structure (REMOVE)
88-52452	4.41	Double Inlet (REMOVE)
88-52455	6.93	12" Drop Structure (REMOVE)
88-52450	6.92	12" Drop Structure (REMOVE)





Know what's below.  
Call before you dig.

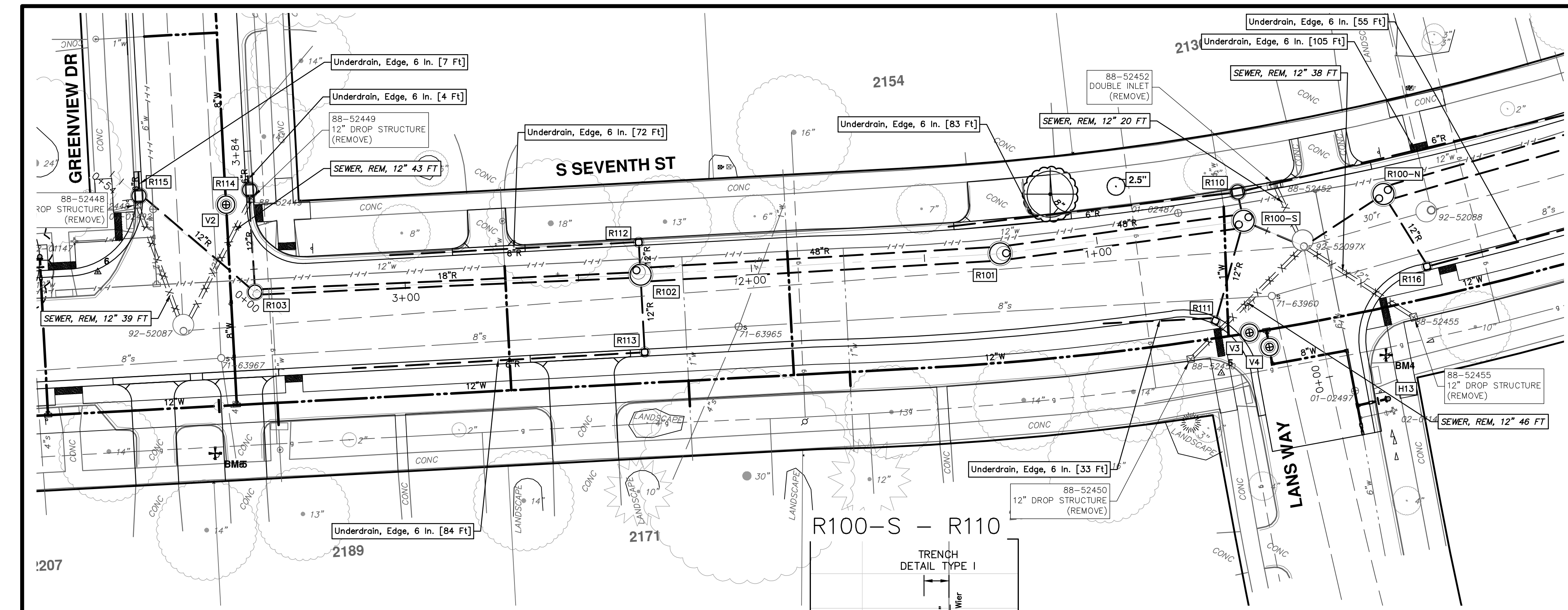
REV.	DATE	DESCRIPTION
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01		TA
02		AD
03		DR
04		CK



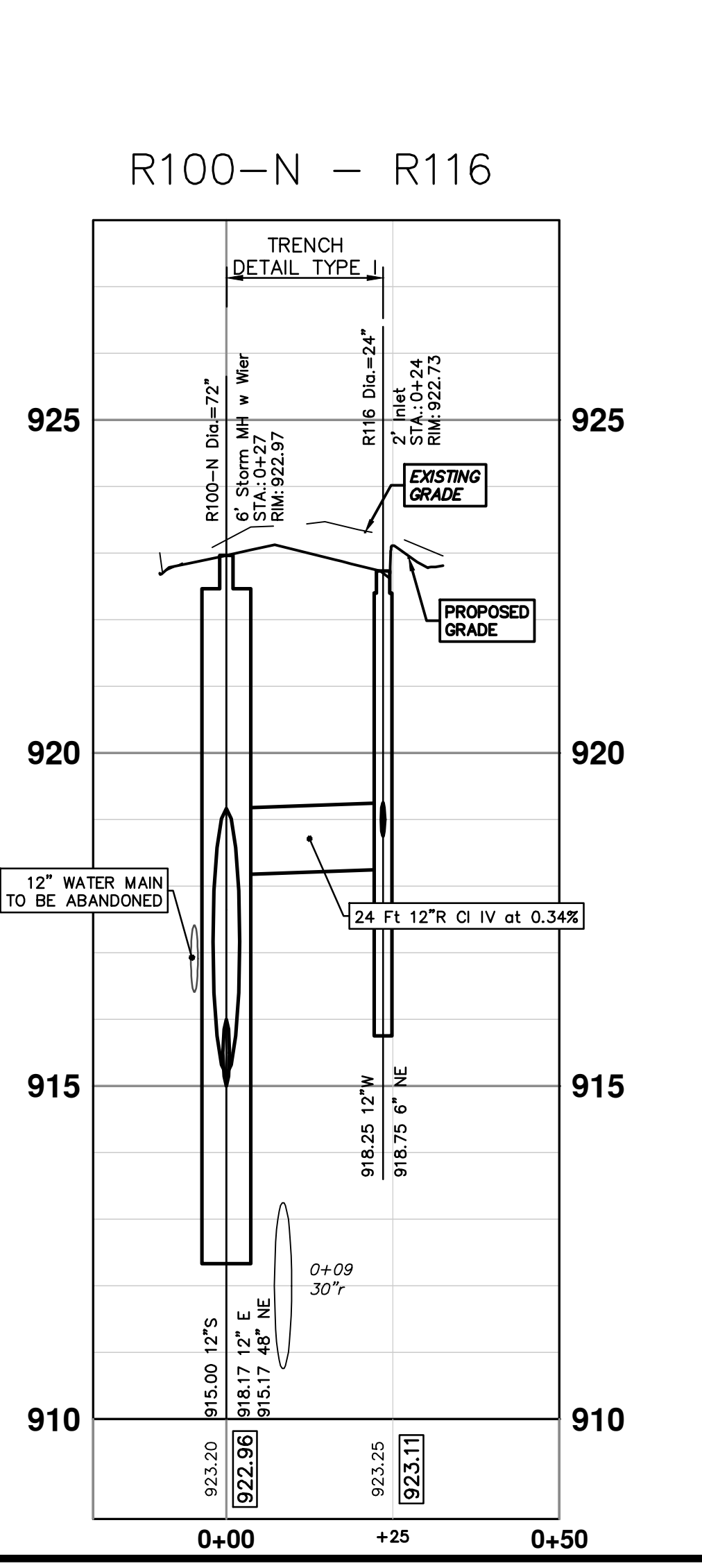
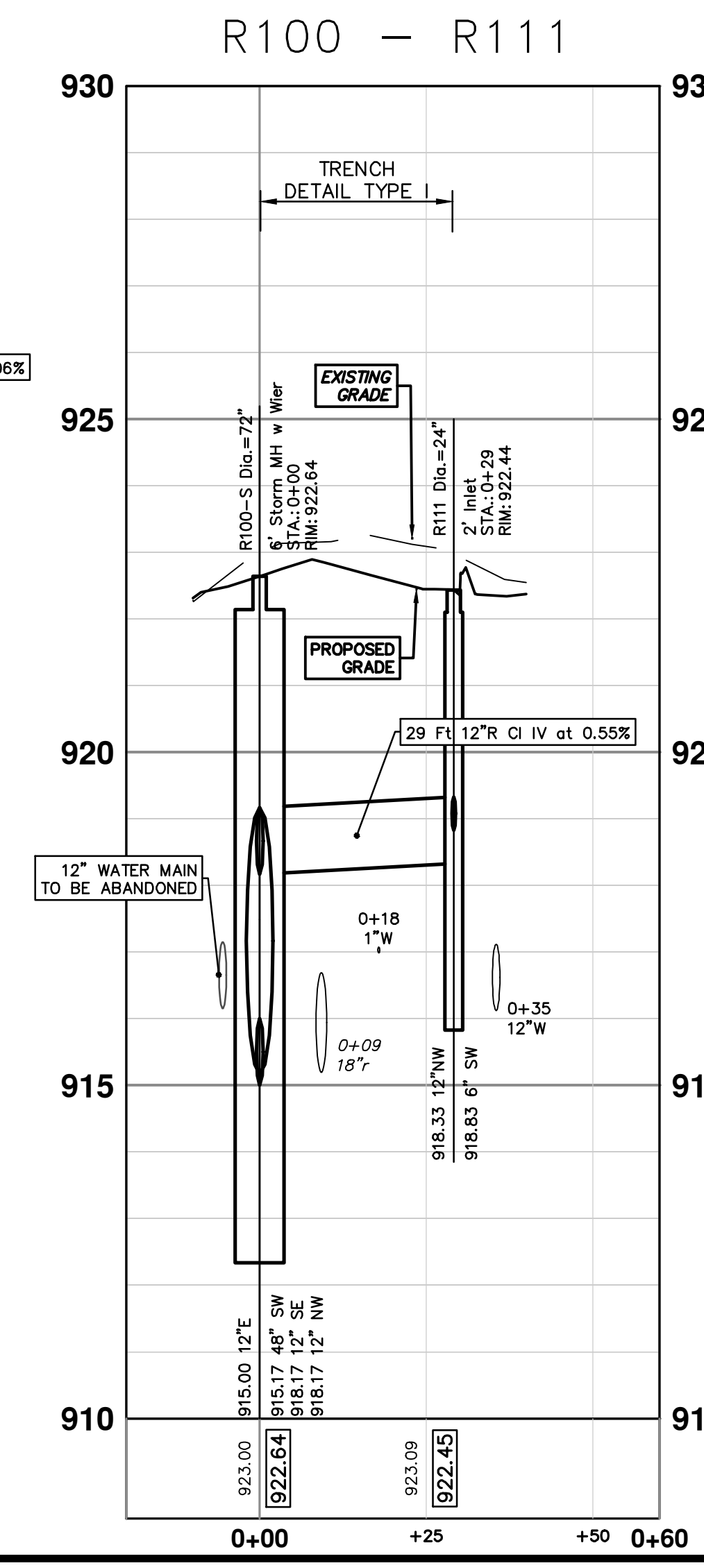
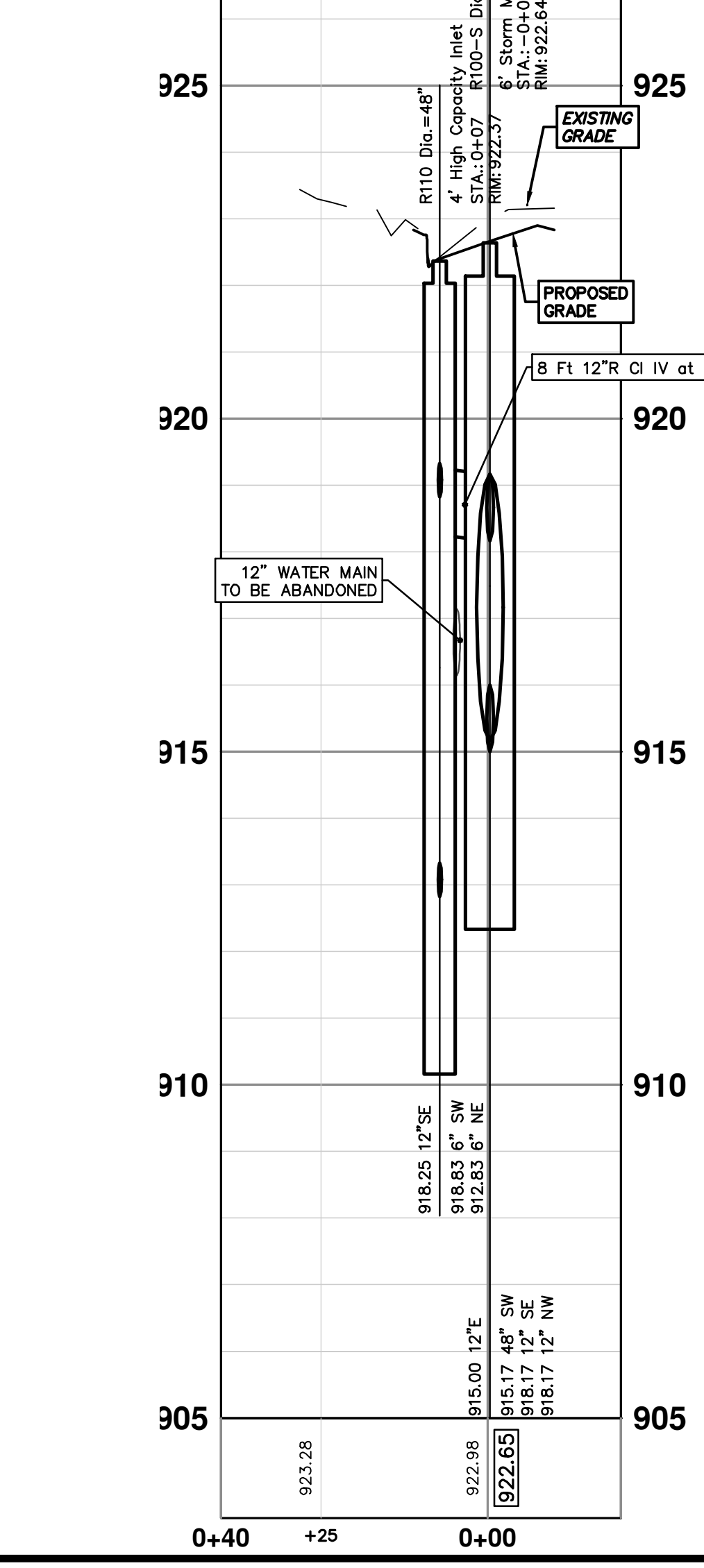
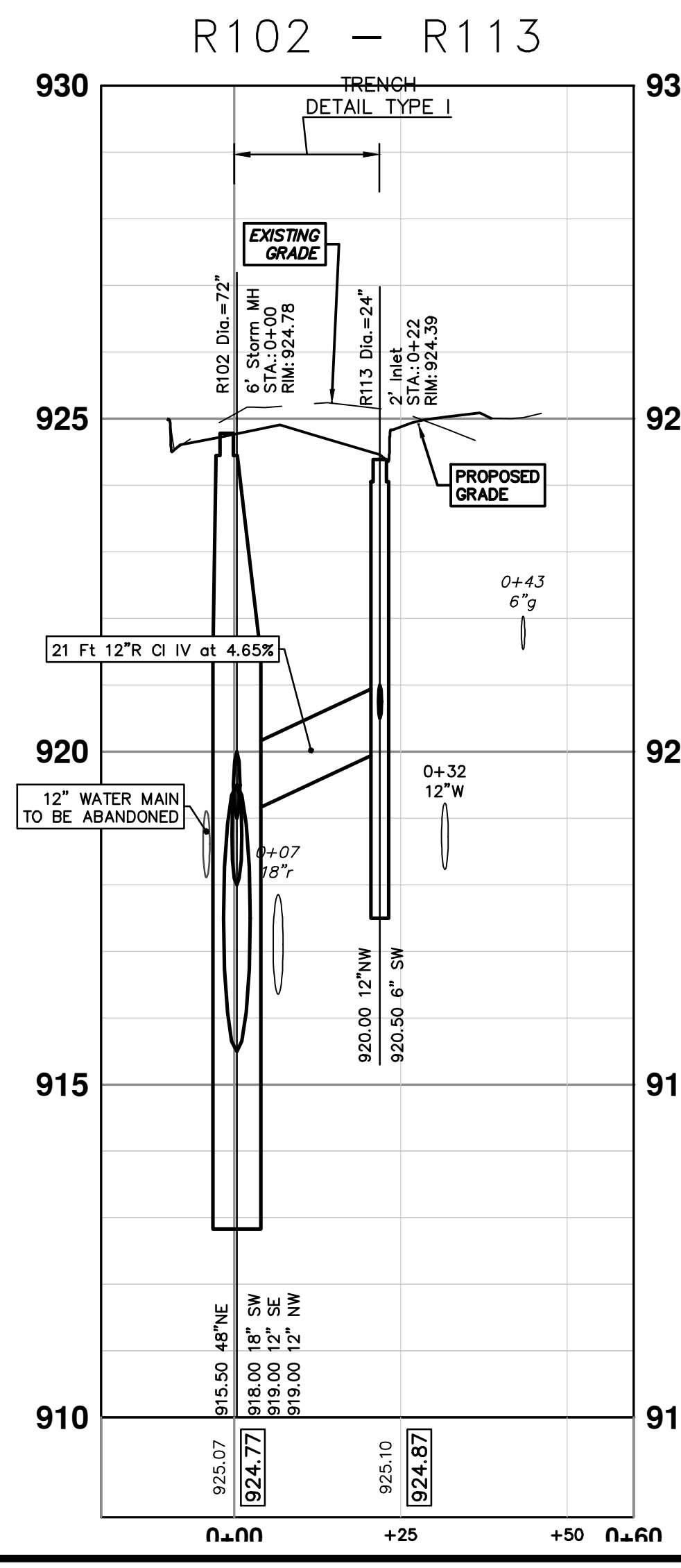
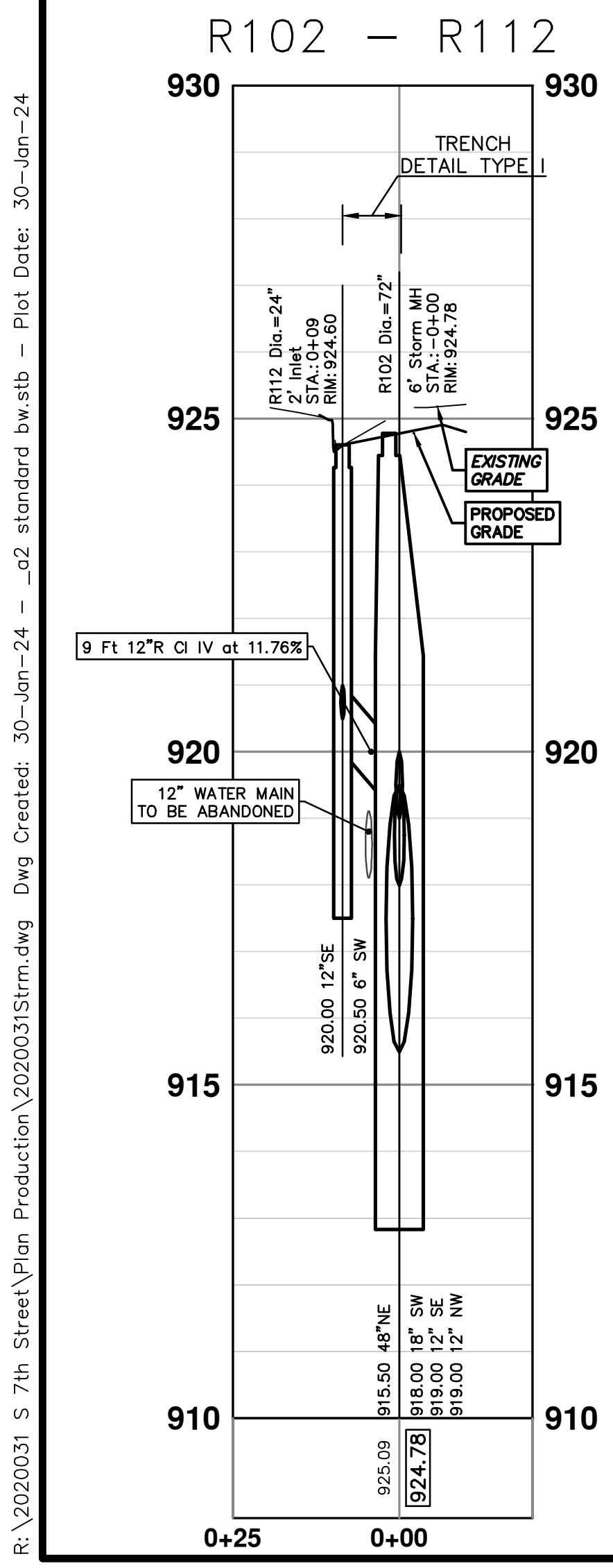
**CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING**  
**S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS**  
 STORM SEWER PLAN & PROFILE - S SEVENTH STREET

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





STORM SEWER STRUCTURE TABLE						
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'



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

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**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'

DRAWING NO. 2020031-40

SHEET NO. 40 OF 92

**811**

Know what's below. Call before you dig.

CITY OF ANN ARBOR  
PUBLIC SERVICES  
301 EAST HURON STREET  
ANN ARBOR, MI 48106-8647  
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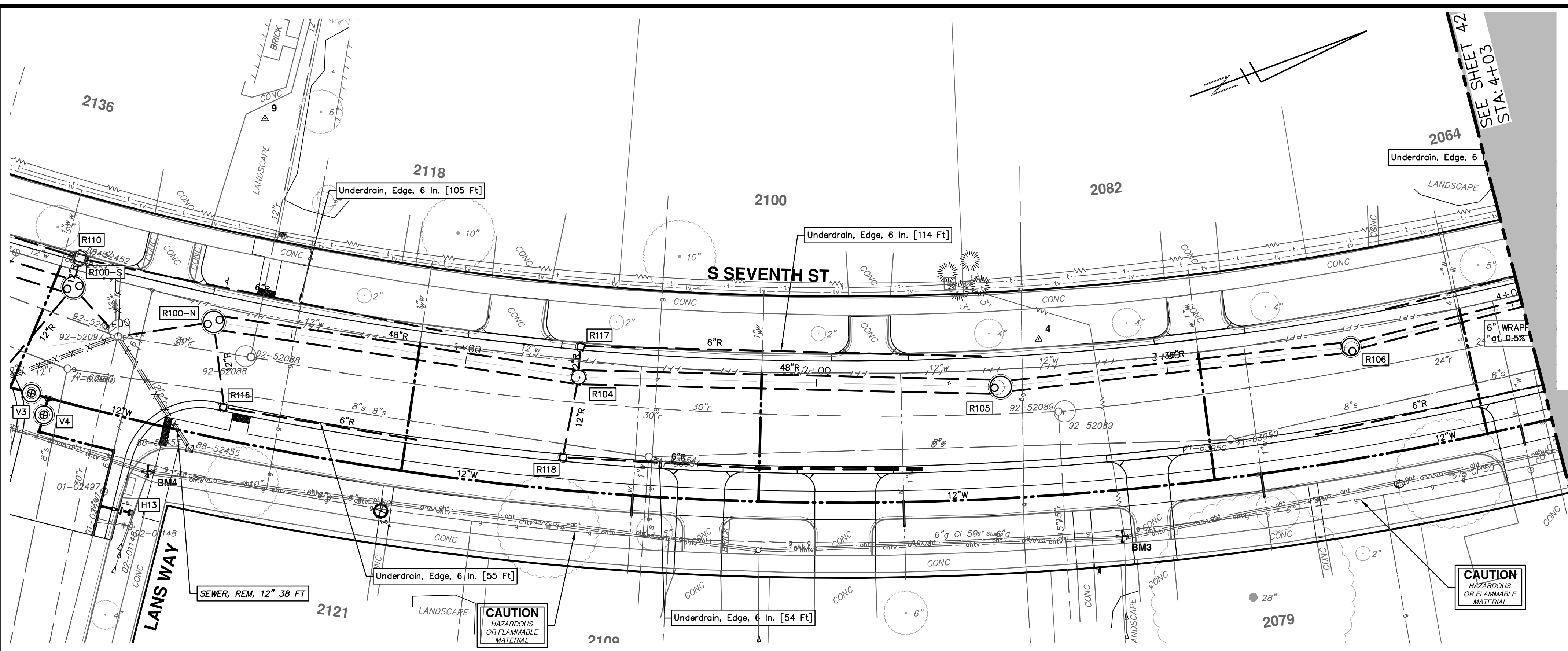
ANN ARBOR MICHIGAN

R110 R111 R112 R113 R116

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

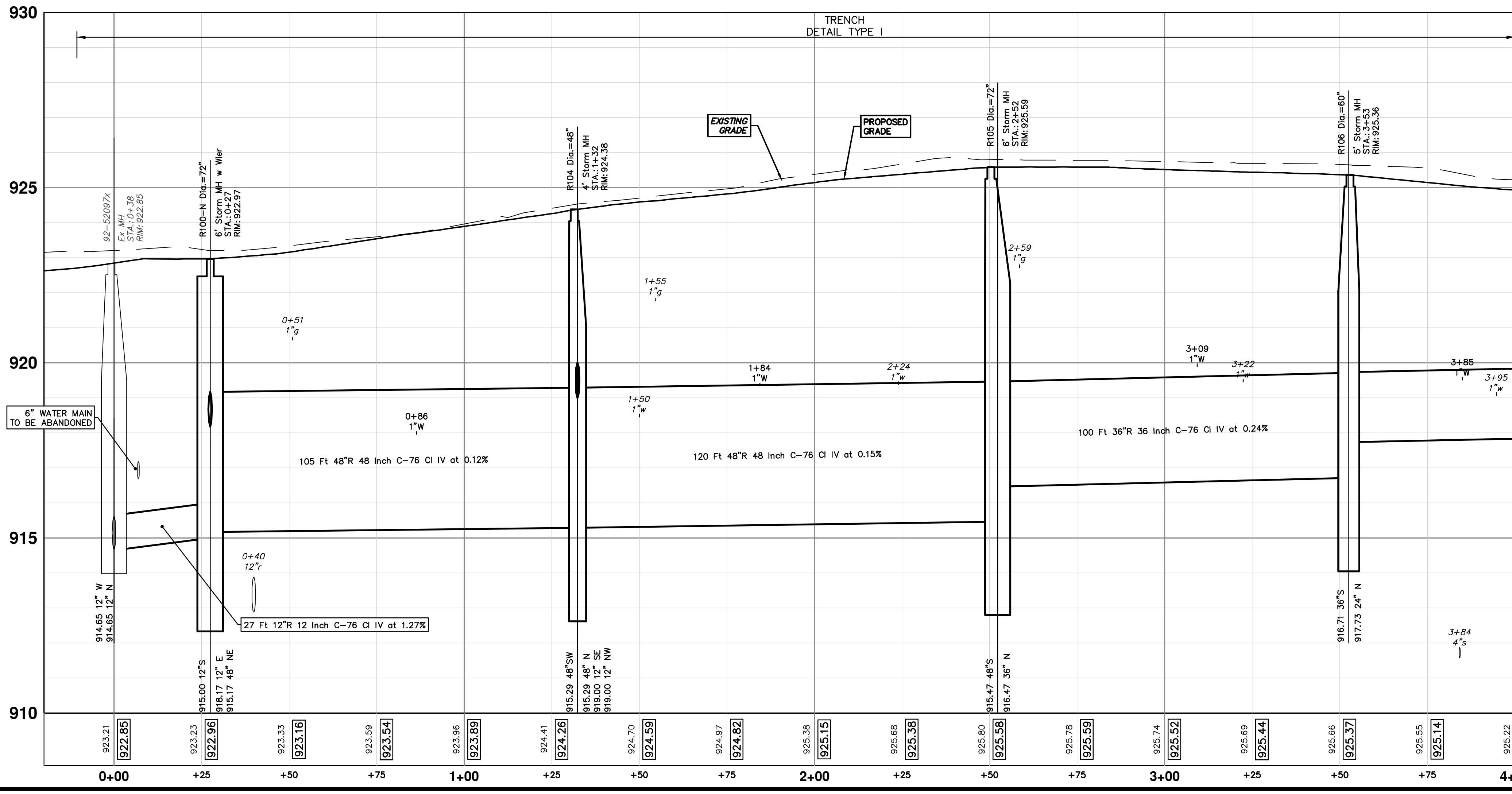


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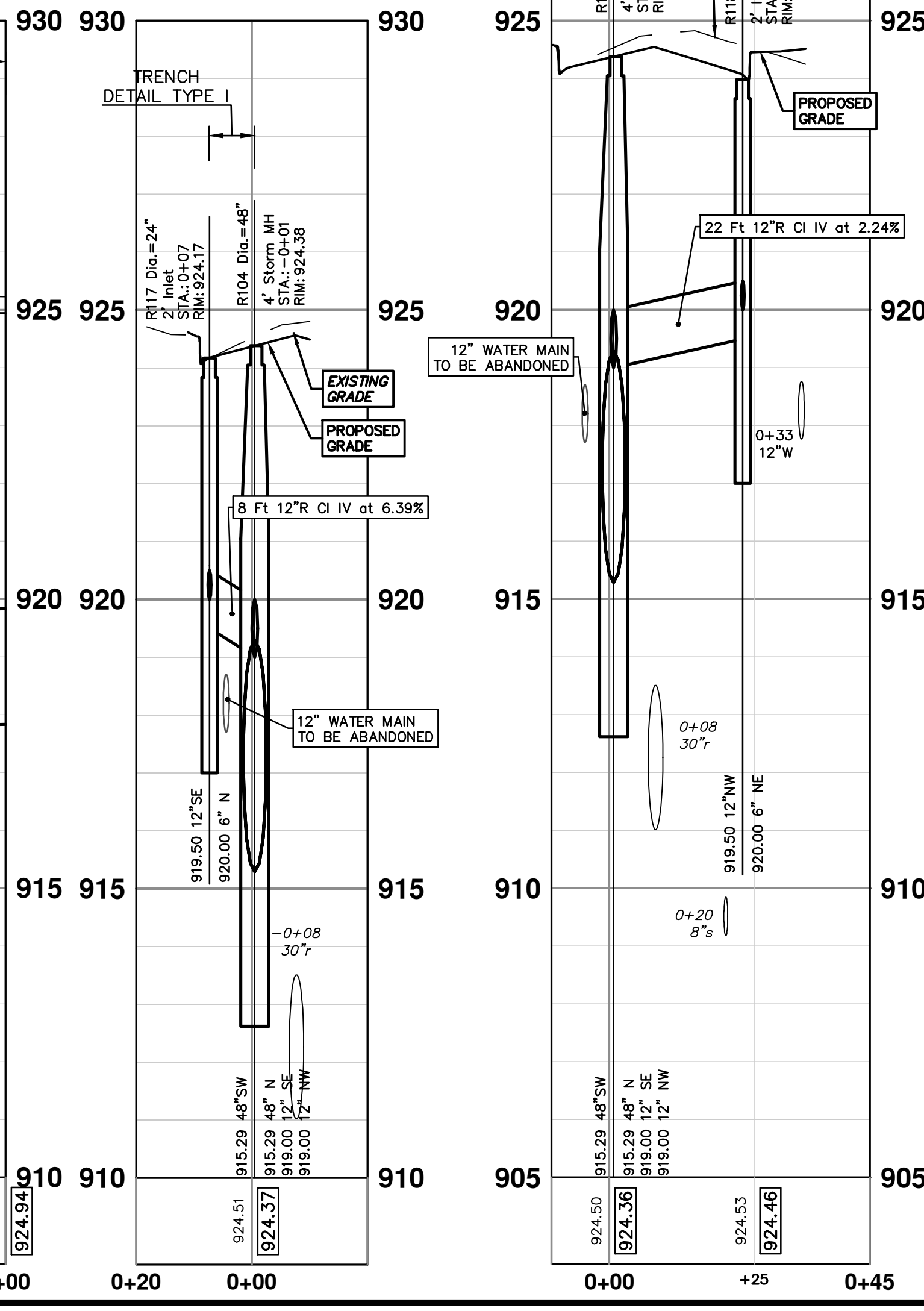


STORM SEWER STRUCTURE TABLE						
STRUCTURE	UTILITY STATION	TYPE	RIM	INVERTS	DEPTH (Feet)	SUMP
R100-N	0+27	6' Storm MH w Wier	922.97	12" E 918.17 48" NE 915.17 12" S 915.00	9.97	2'
R104	1+32	4' Storm MH	924.38	48" N 915.29 12" SE 919.00 48" SW 915.29	11.09	2'
R105	2+52	6' Storm MH	925.59	36" N 916.47 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

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

R100-N R104 R105 R106 R117 R118

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

DRAWING NO. 2020031-41

SHEET NO. 41 OF 92

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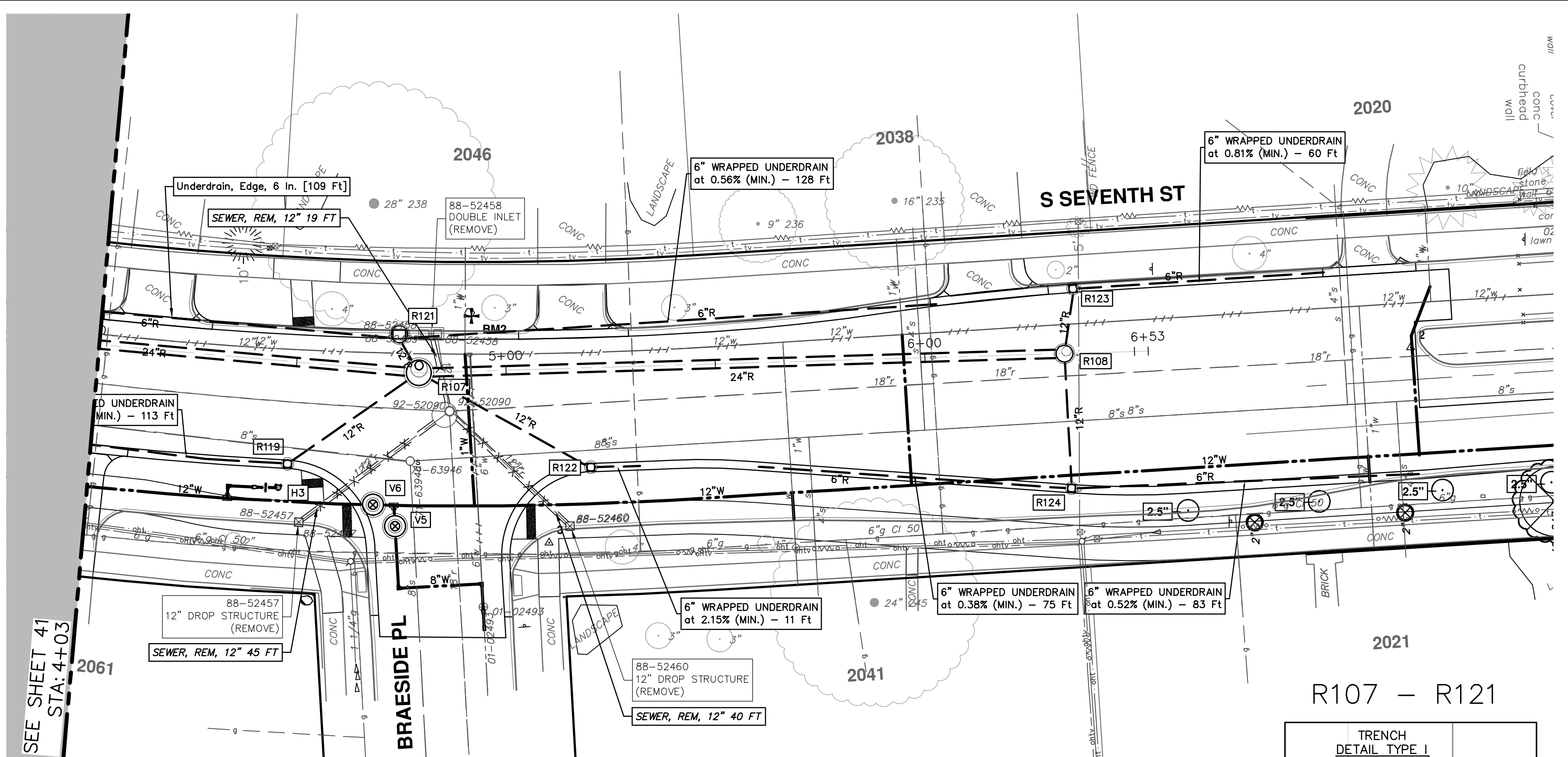
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		TA CHECKED

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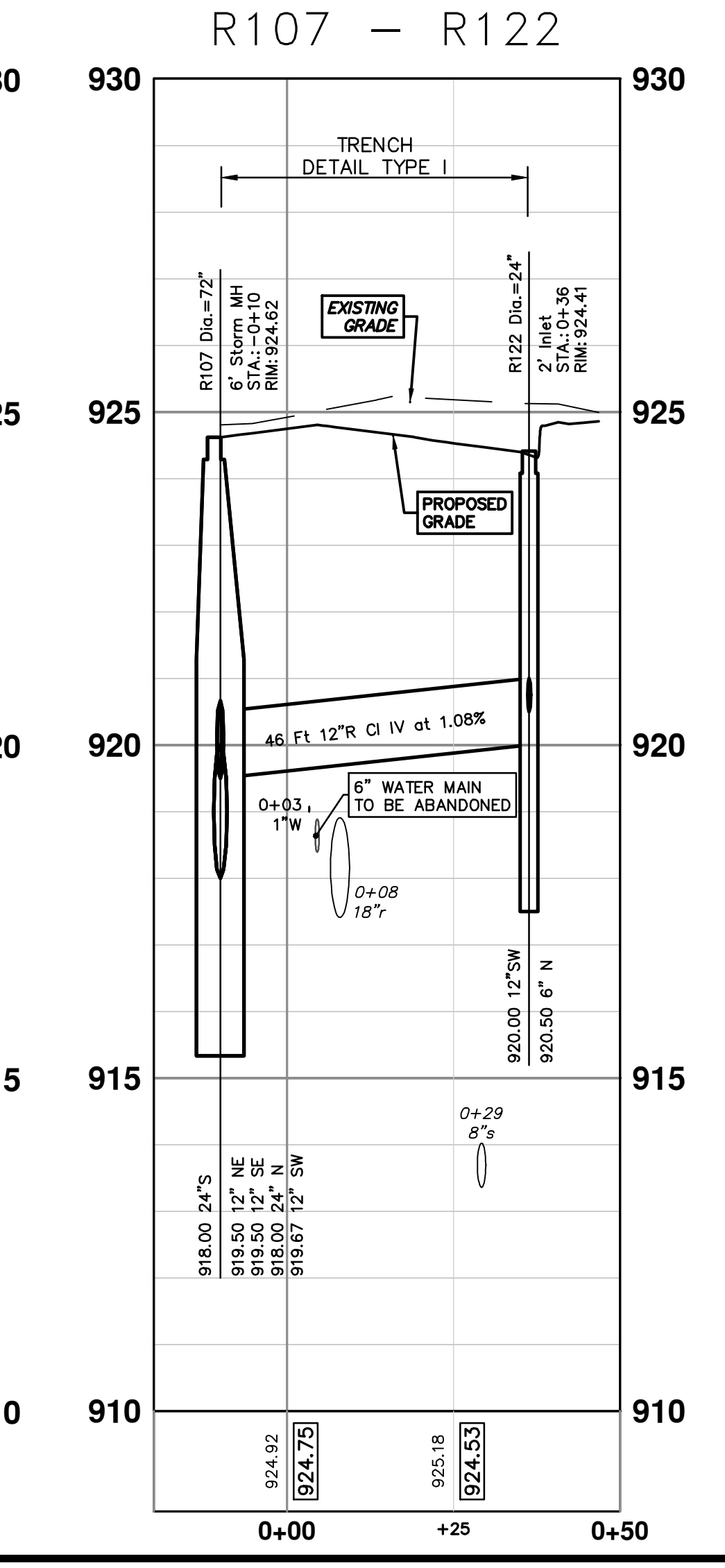
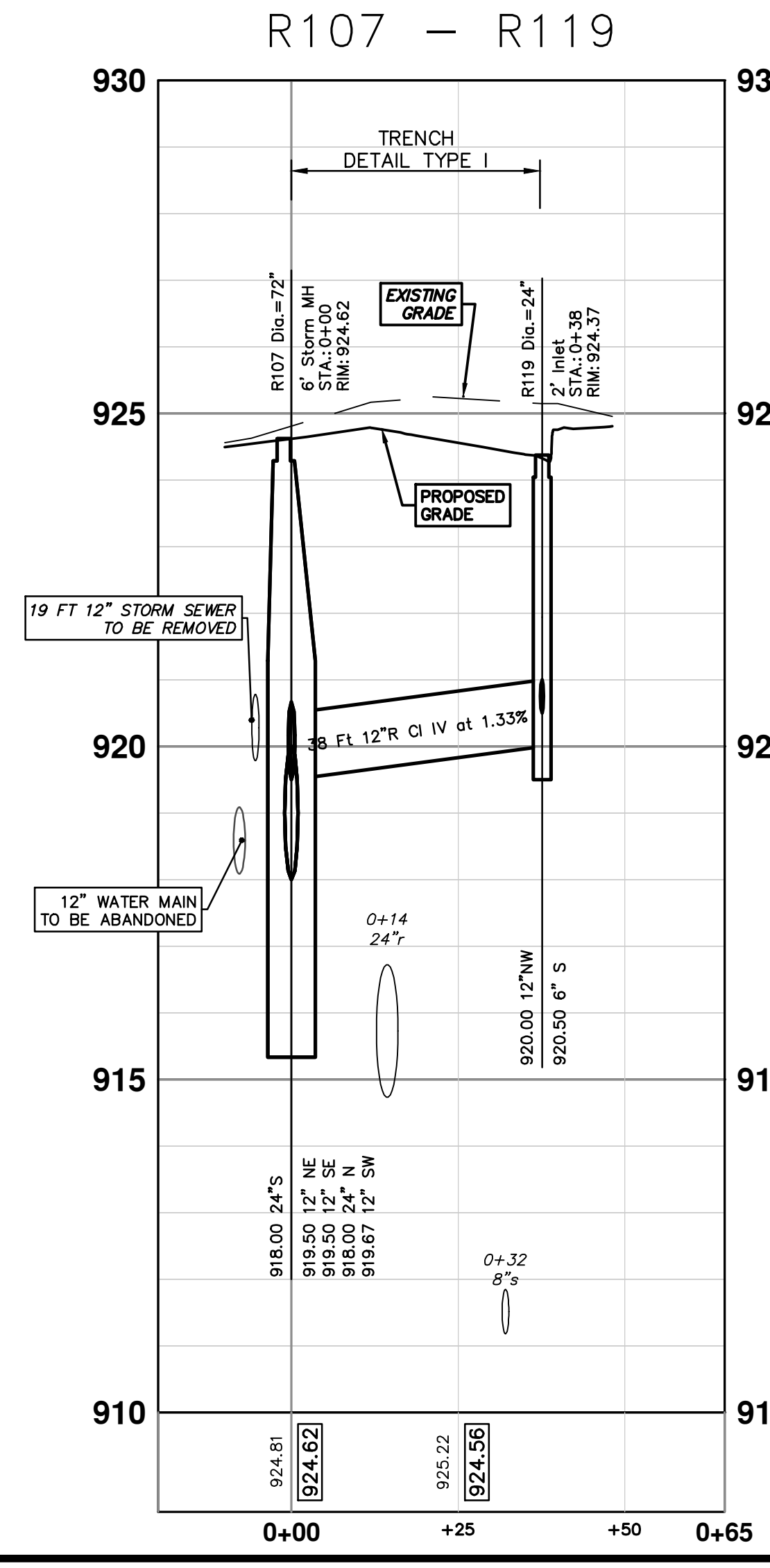
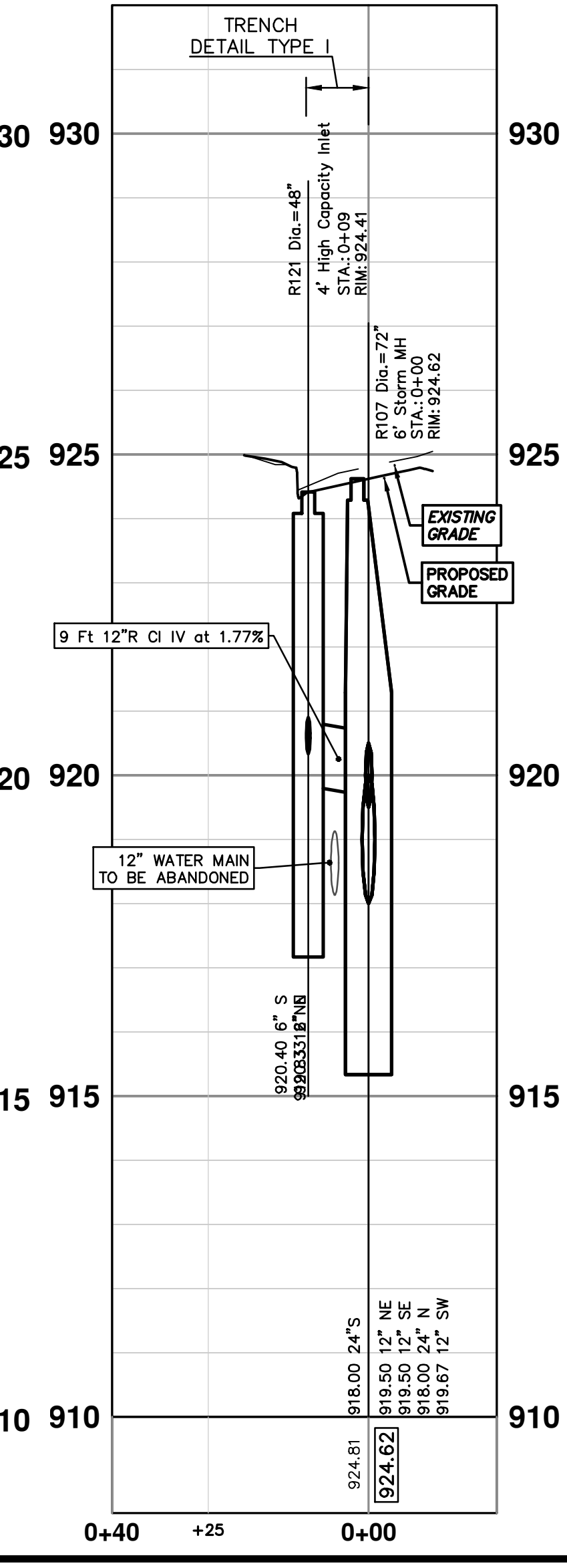
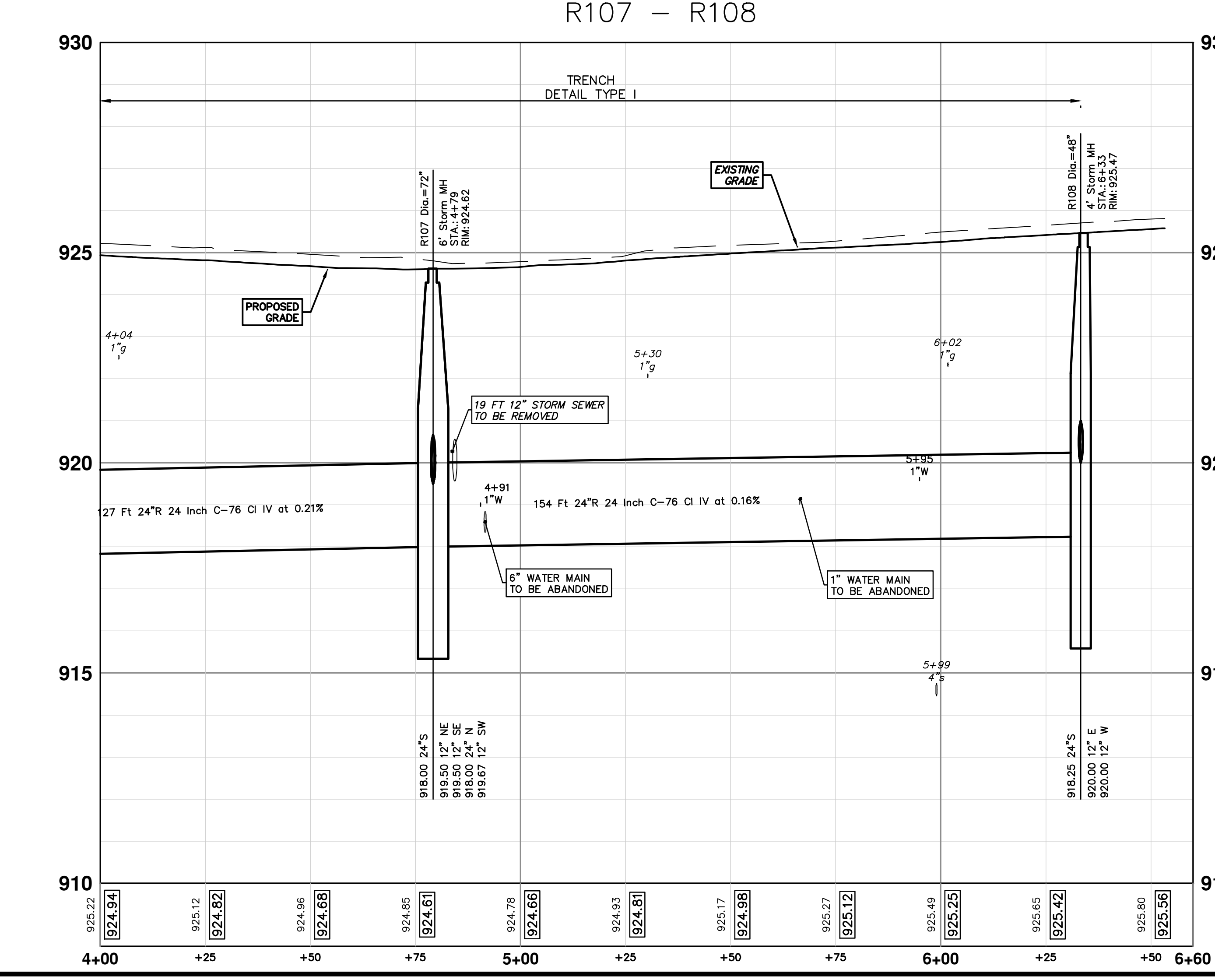


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STRUCTURE	DEPTH (Feet)	REMOVE
88-52460	3.43	12" Drop Structure (REMOVE)
88-52457	4.82	12" Drop Structure (REMOVE)
88-52458	4.19	Double Inlet (REMOVE)


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 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'





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REV.	DATE	DRAWN	CHECKED	TA	BY
00	1-30-24	AZD	AZD	TA	AZD
DESCRIPTION					



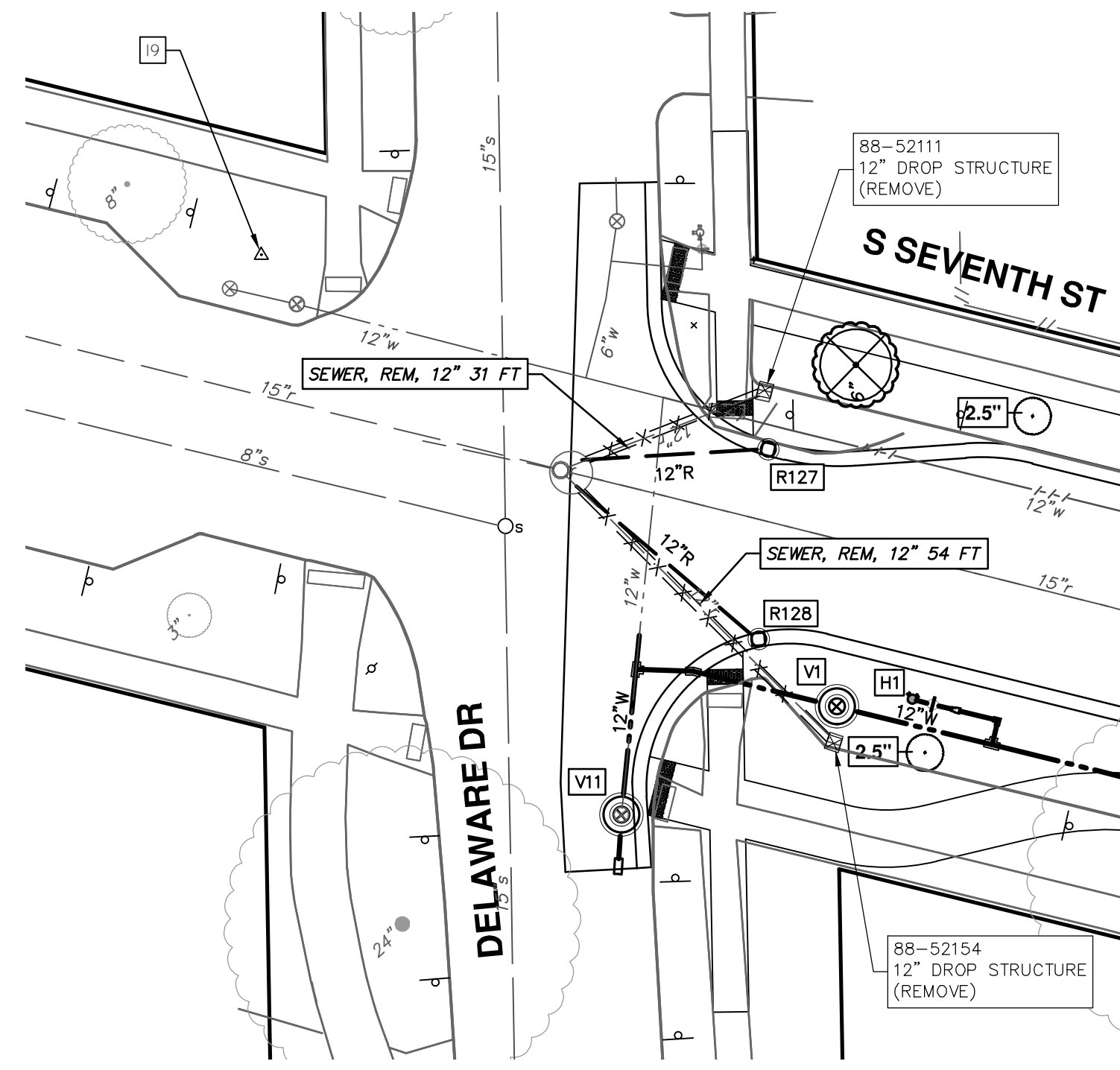
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 R107 R108 R119 R121 R122

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

DRAWING NO. **2020031-42**  
 SHEET NO. **42 OF 92**



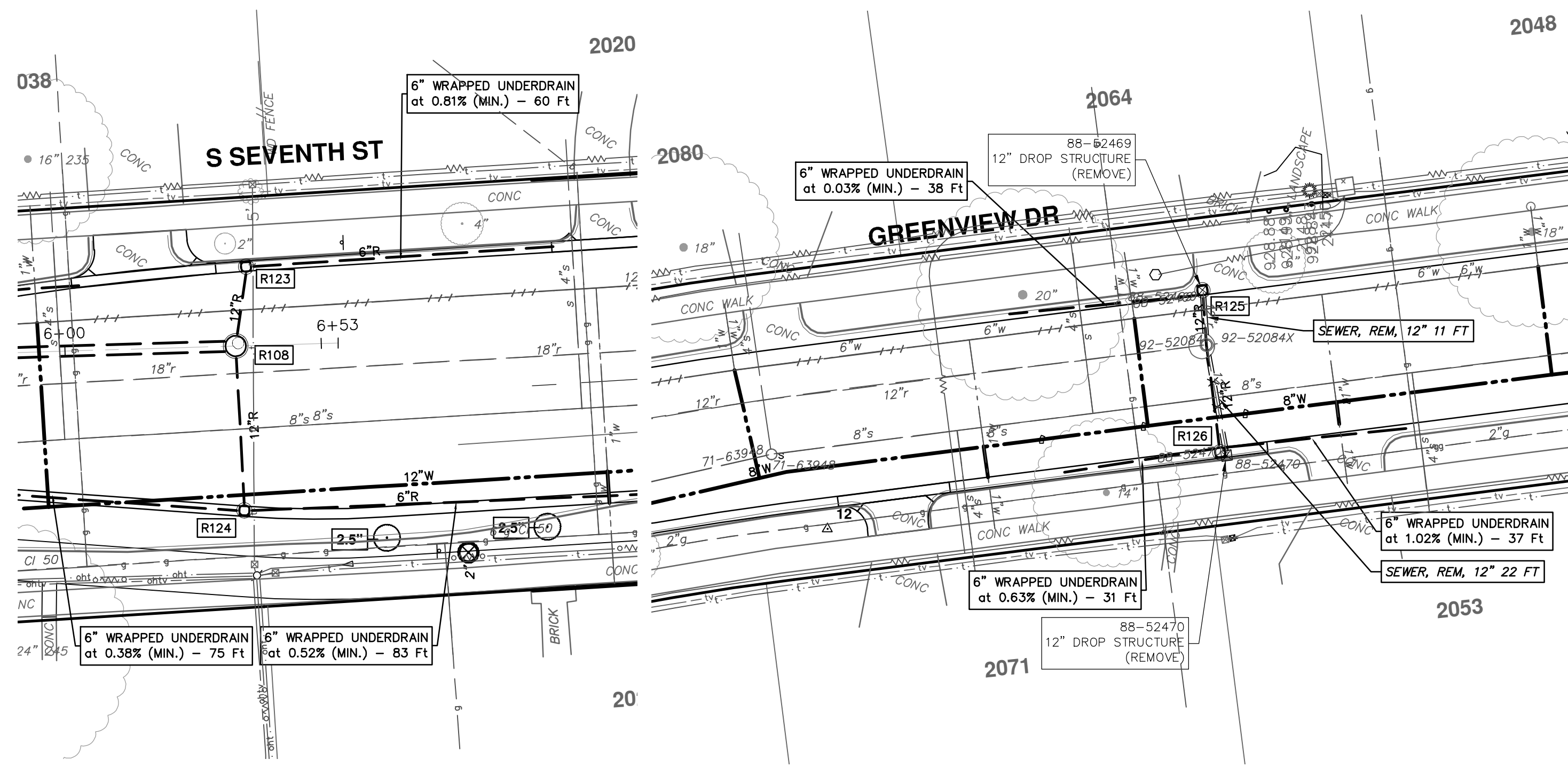
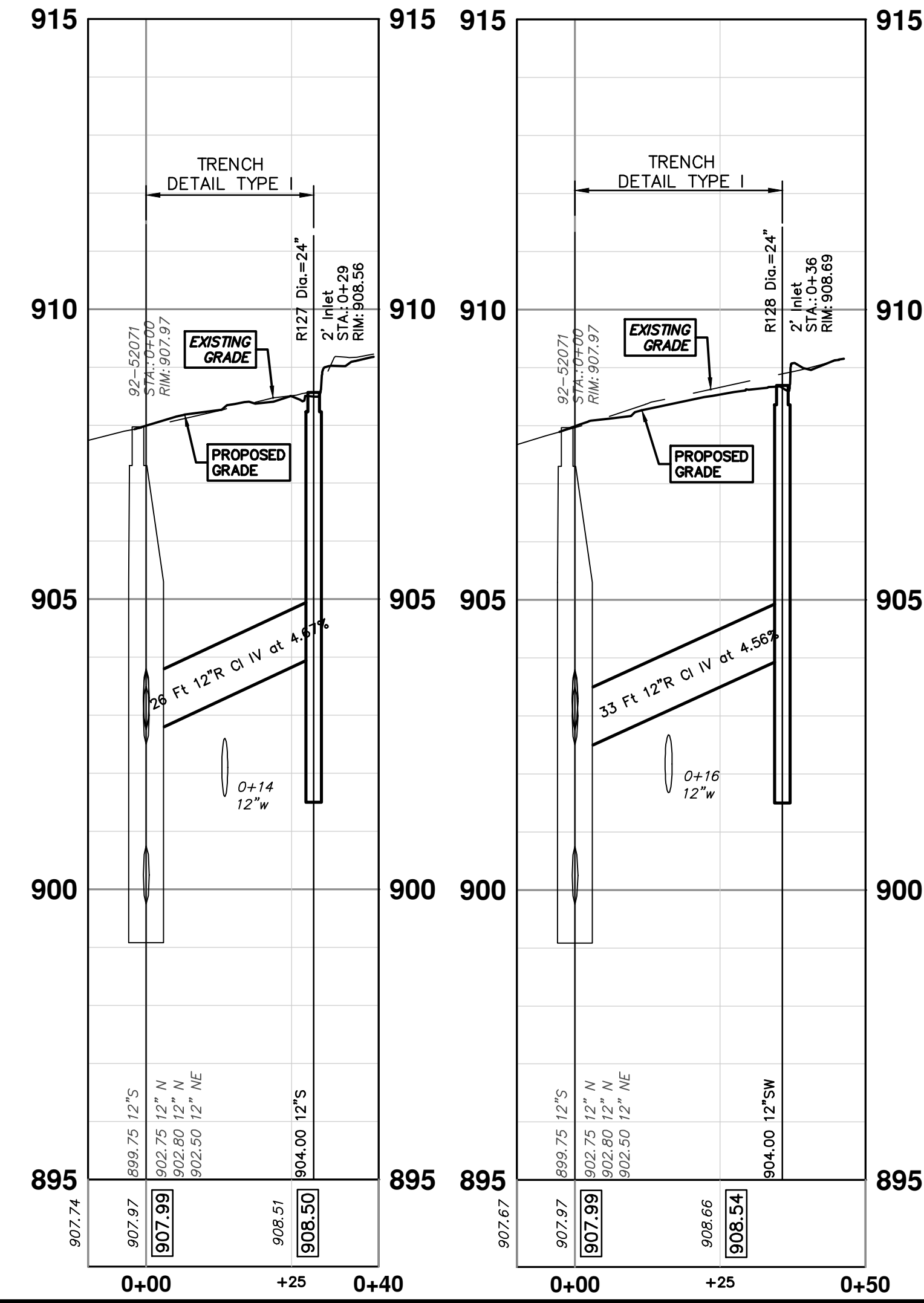
R:\2020031 3 7th Street\Plan Production\2020031Strm1.dwg Dwg Created: 30-Jan-24 - \_a2 standard bw.stb - Plot Date: 30-Jan-24



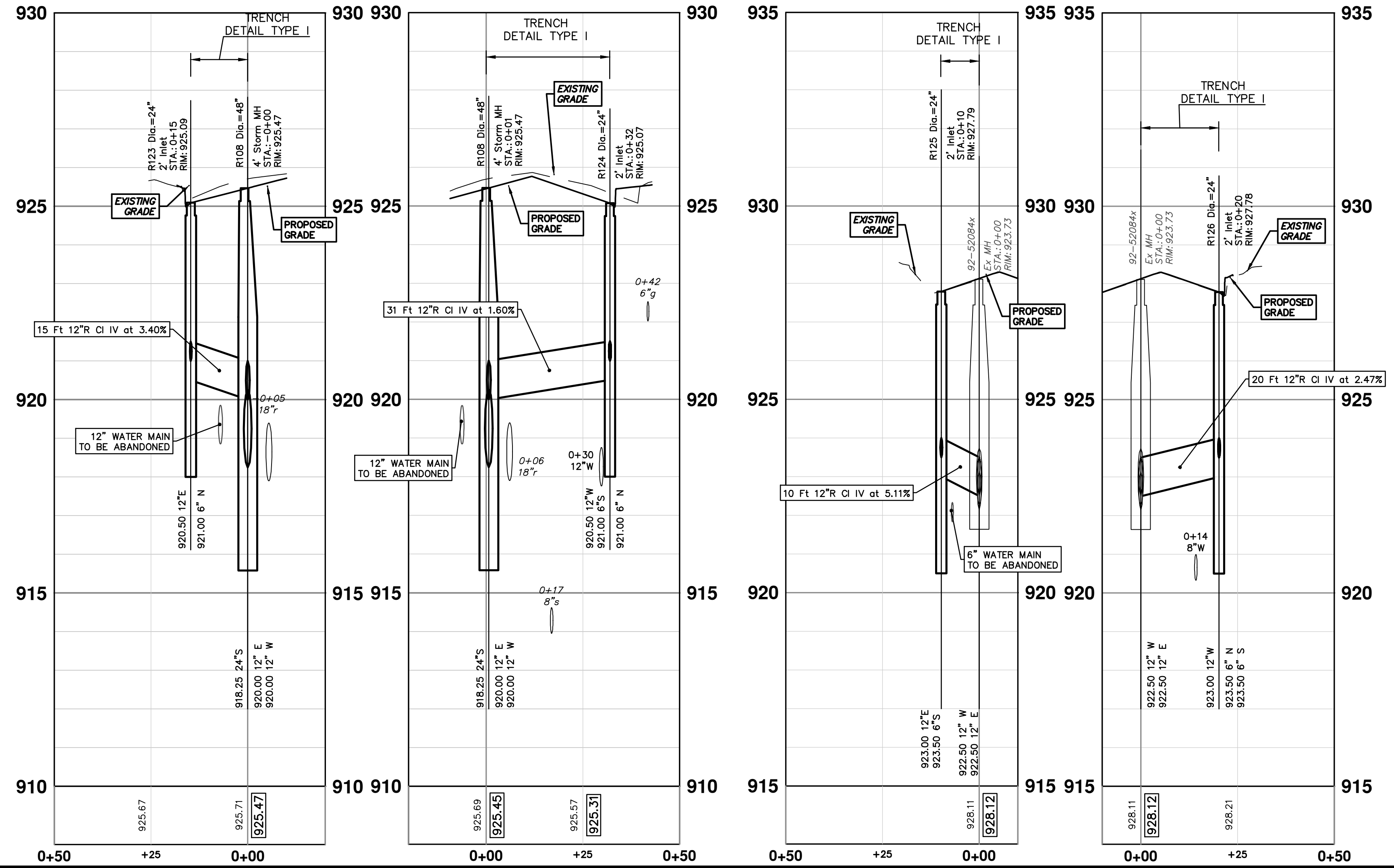
STORM SEWER STRUCTURE TABLE						
STRUCTURE	UTILITY STATION	TYPE	RIM	INVERTS	DEPTH (Feet)	SUMP
R123	0+15	2' Inlet	925.09	6" N 921.00 12" E 920.50	6.59	2'
R124	0+32	2' Inlet	925.07	6" N 921.00 12" W 920.50 6" S 921.00	6.57	2'
R125	0+10	2' Inlet	927.79	12" E 923.00 6" S 923.50	6.79	2'
R126	0+20	2' Inlet	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
88-52470	4.93	12" Drop Structure (REMOVE)
88-52469	5.01	12" Drop Structure (REMOVE)
88-52111	4.06	12" Drop Structure (REMOVE)
88-52154	5.47	12" Drop Structure (REMOVE)

92-52071 - R127 92-52071 - R128




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





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SCALE PLAN: 1" = 20'

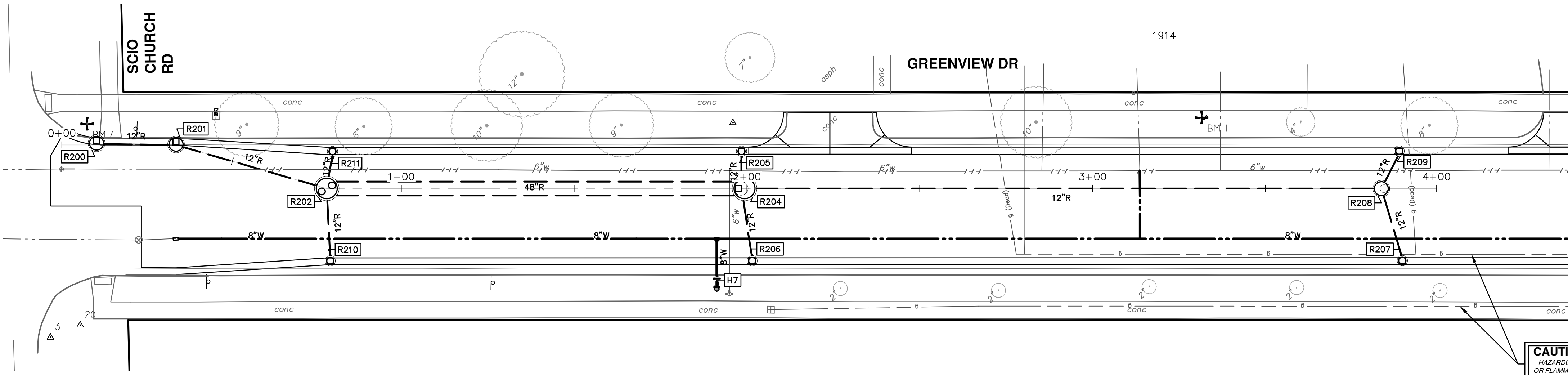
PROFILE: 1" = 2'

DRAWING NO. 2020031-43

SHEET NO. 43 OF 92

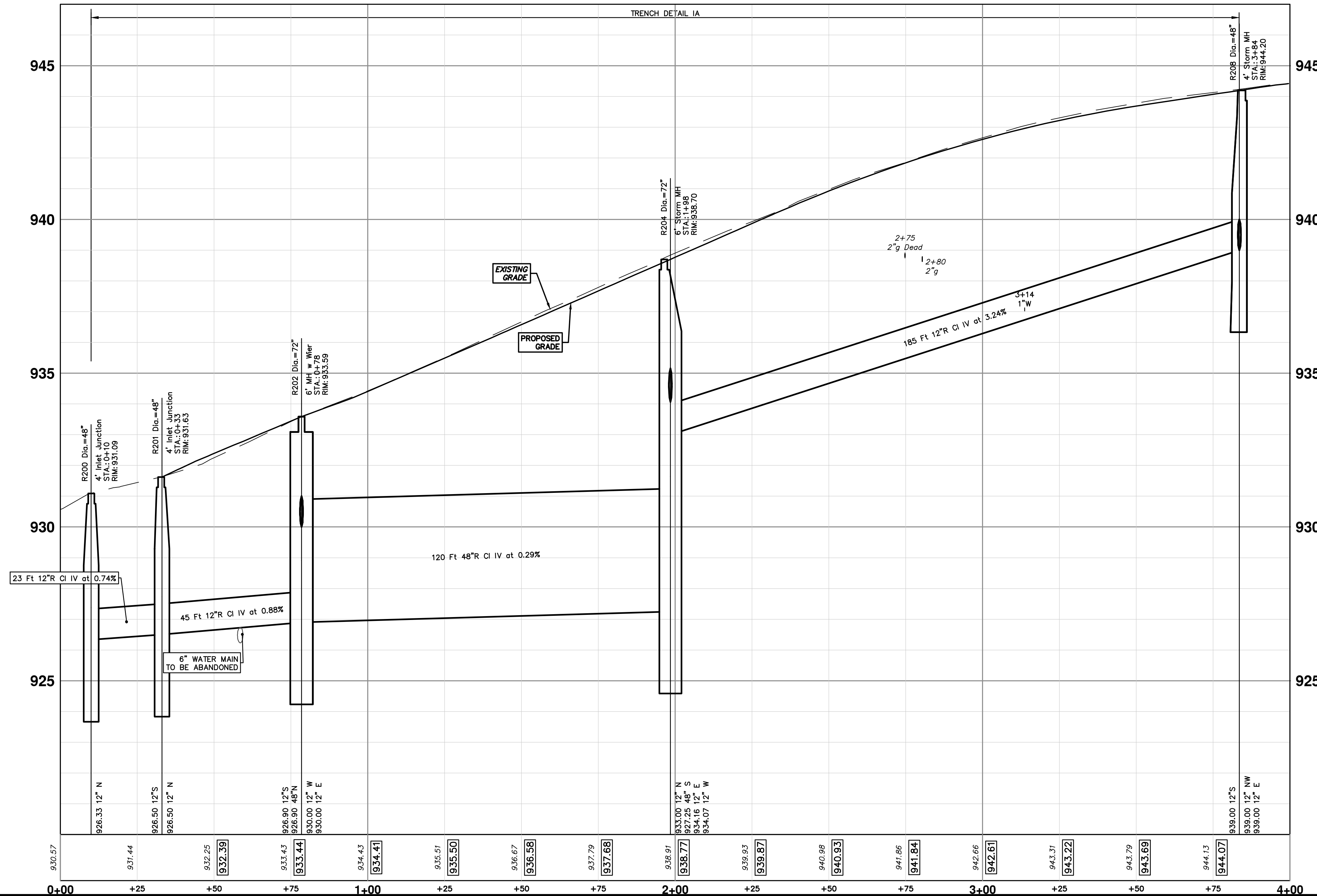


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R200 - R208

**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" W 930.00 12" E 930.00 48" S 926.90 48" N 926.90	7.13	2'
R202	0+78	6' MH w Wier	933.59	12" N 933.00 48" S 927.25 12" E 934.16 12" W 934.07	8.69	2'
R204	1+98	6' Storm MH	938.70	12" NW 939.00 12" E 939.00 12" S 939.00	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'



REV.	DATE	DESCRIPTION
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S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS  
STORM SEWER PLAN & PROFILE - GREENVIEW DR NORTH  
R200 R201 R202 R204 R208

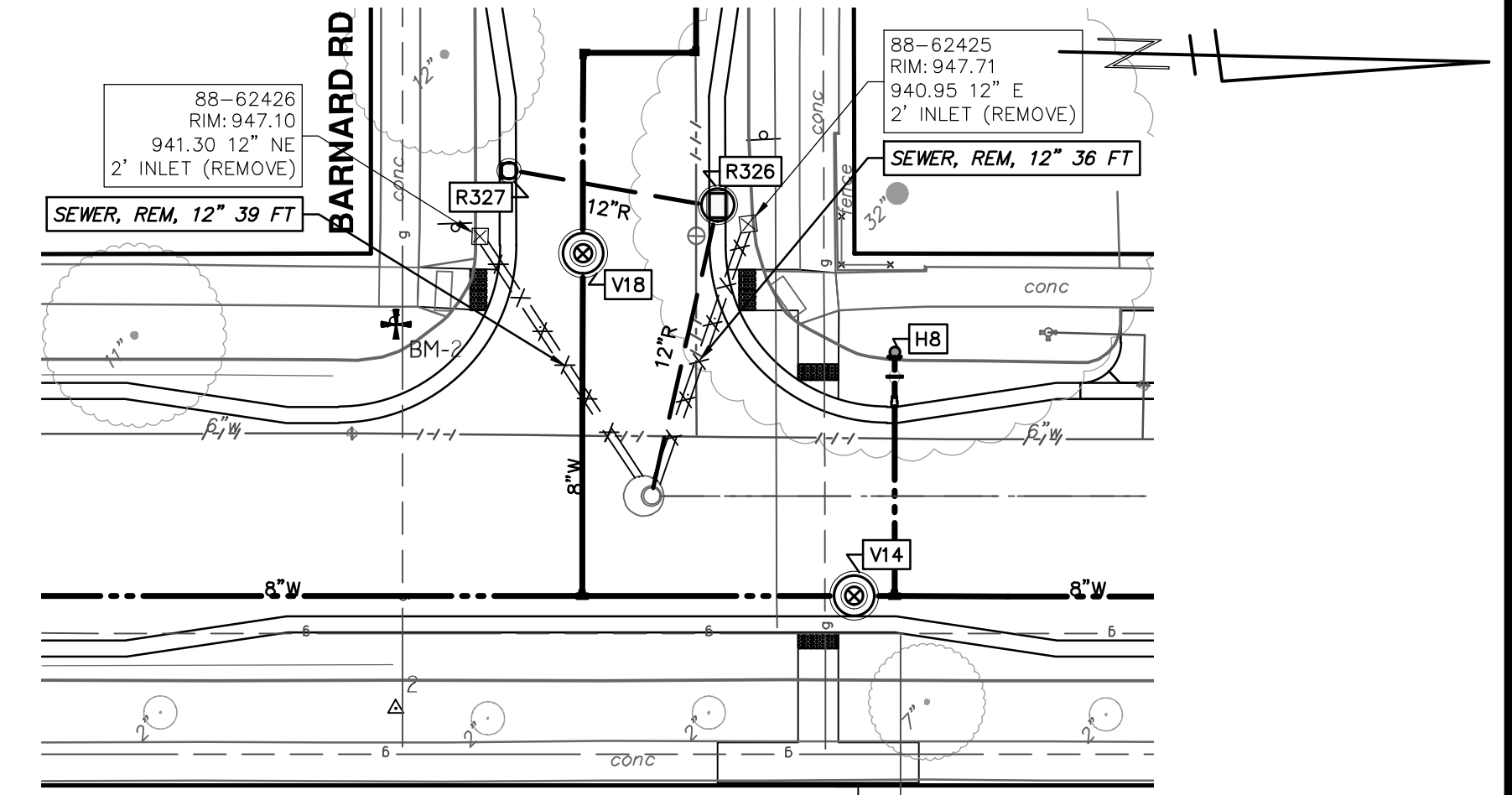
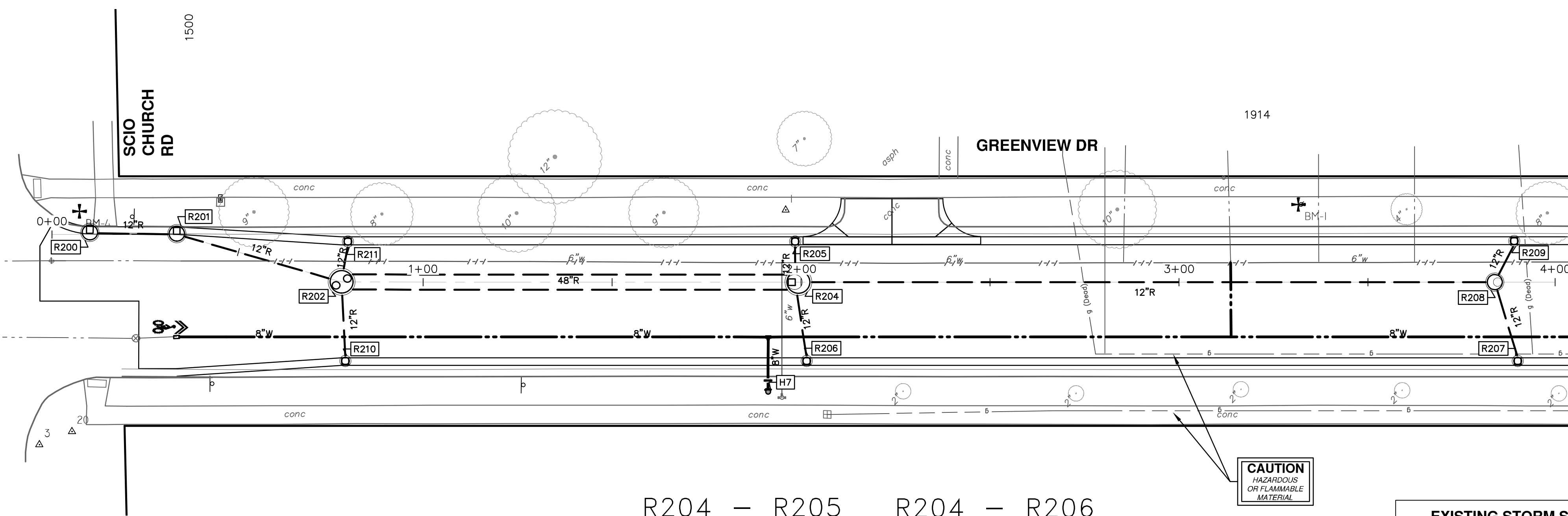
SCALE PLAN: 1" = 20'  
PROFILE: 1" = 2'

DRAWING No. 2020031-44

SHEET No. 44 OF 92



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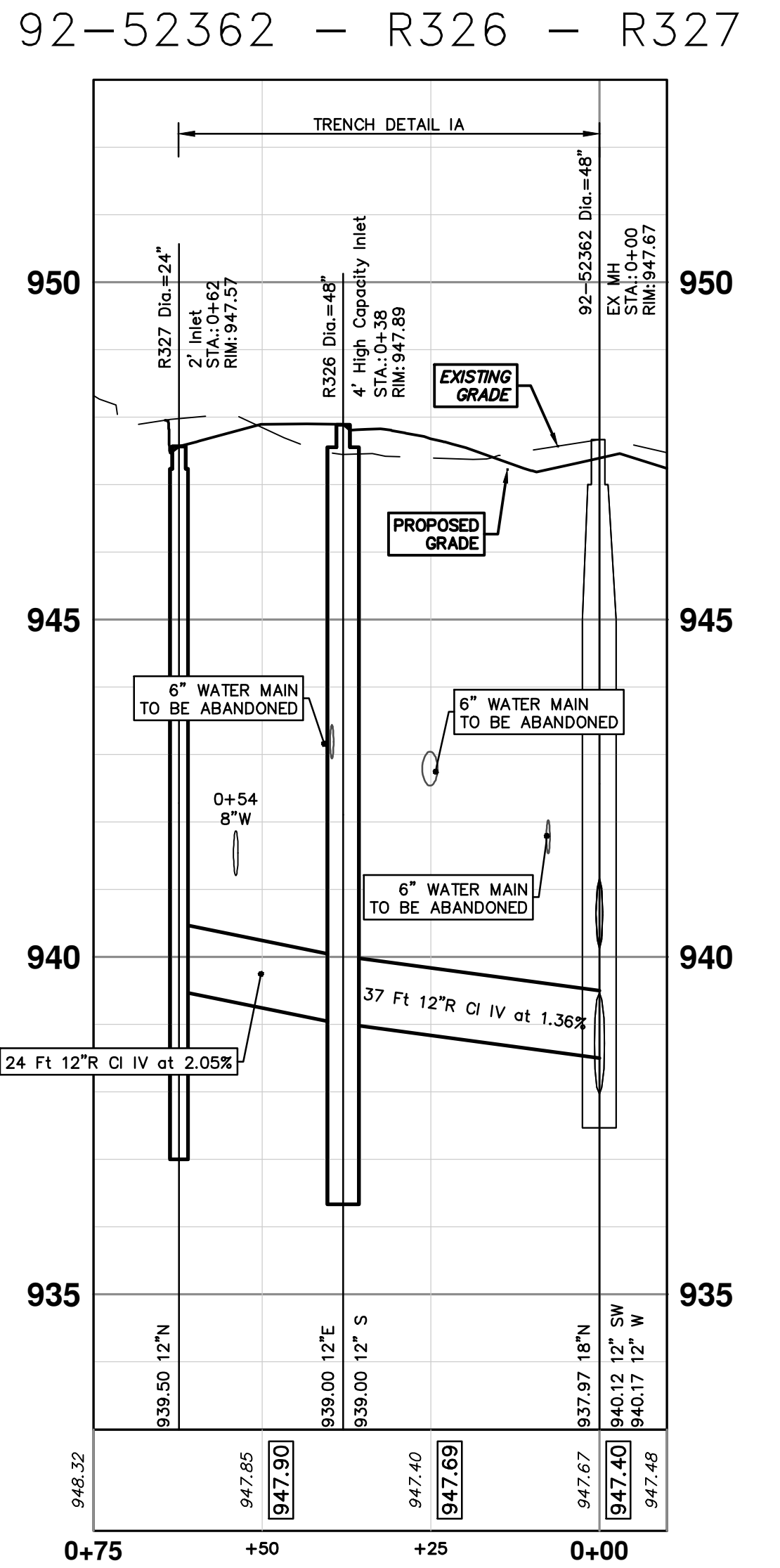
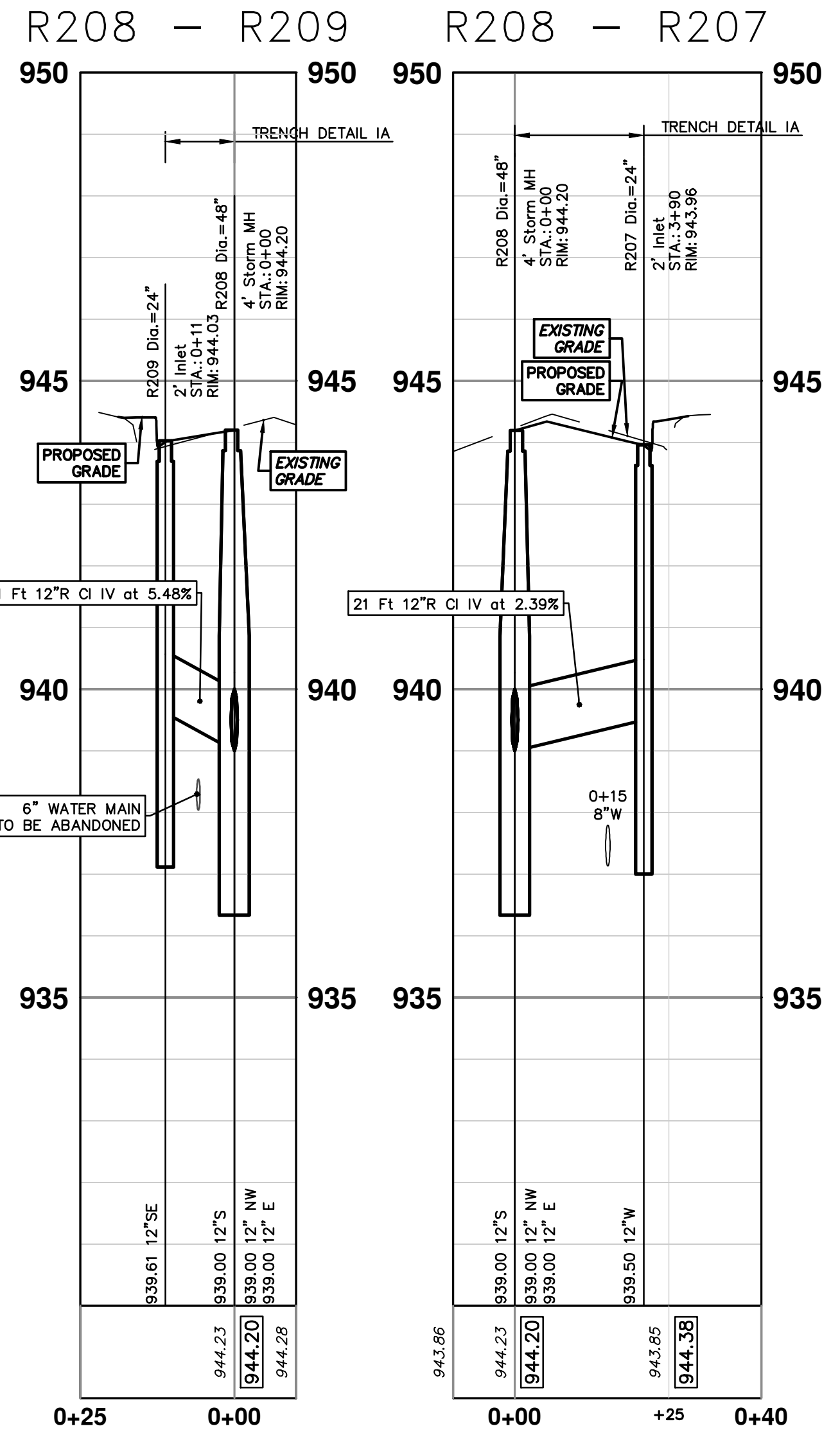
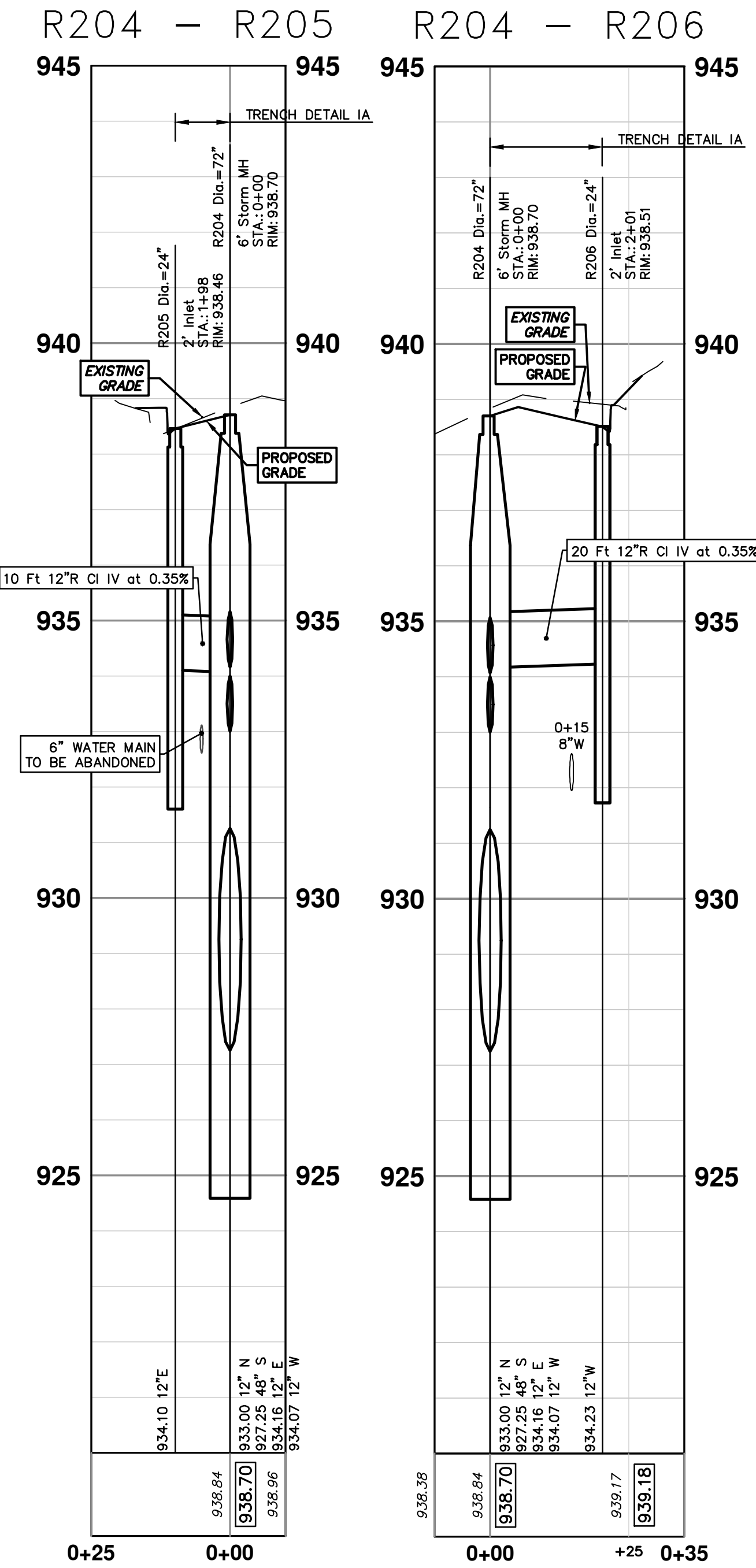
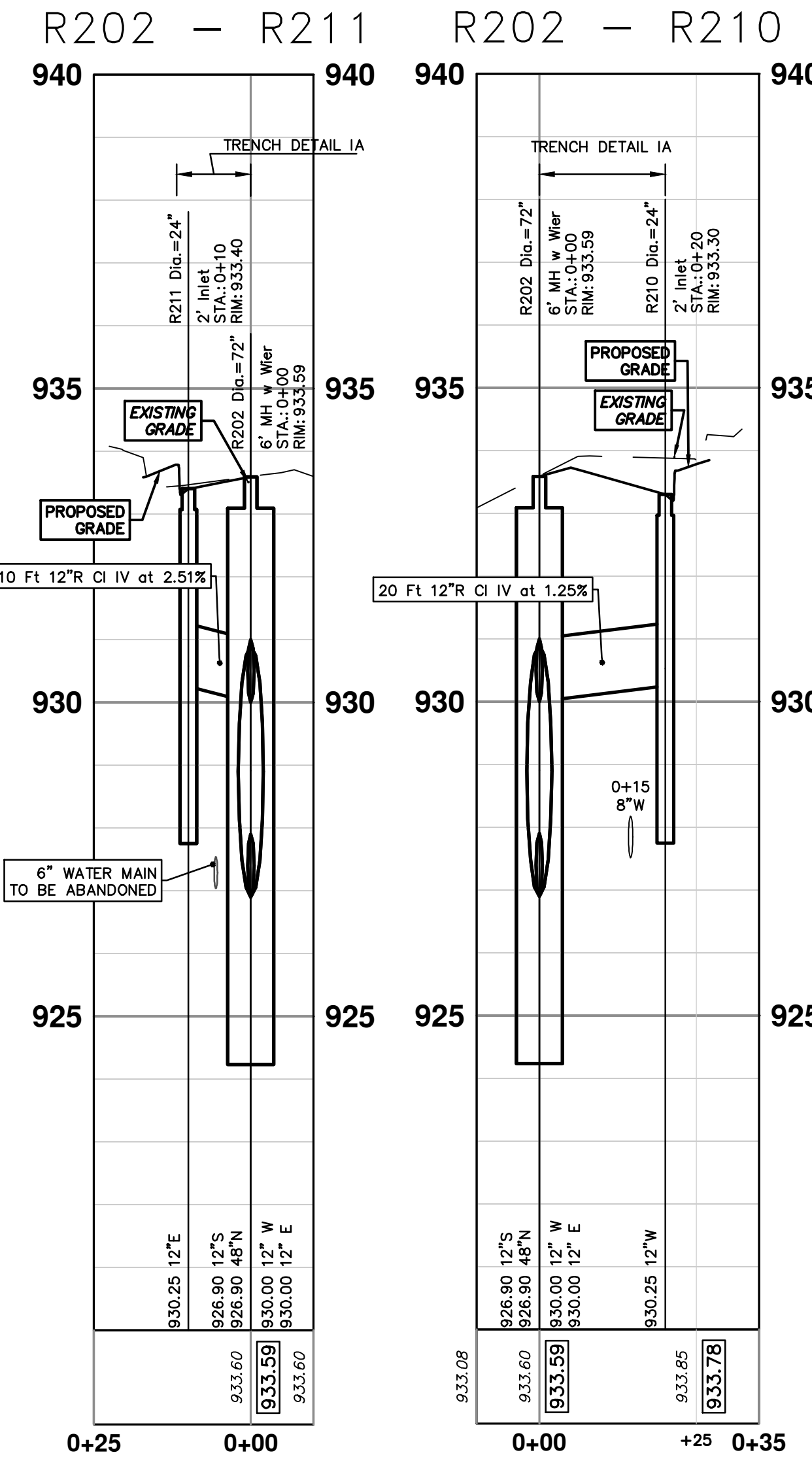
**CAUTION**  
HAZARDOUS  
OR FLAMMABLE  
MATERIAL

**EXISTING STORM SEWER STRUCTURE REMOVAL TABLE**

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

**STORM SEWER STRUCTURE TABLE**

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'



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STORM SEWER PLAN & PROFILE - GREENVIEW DR NORTH

2020031-45

45 OF 92

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

DRAWING NO. 2020031-45

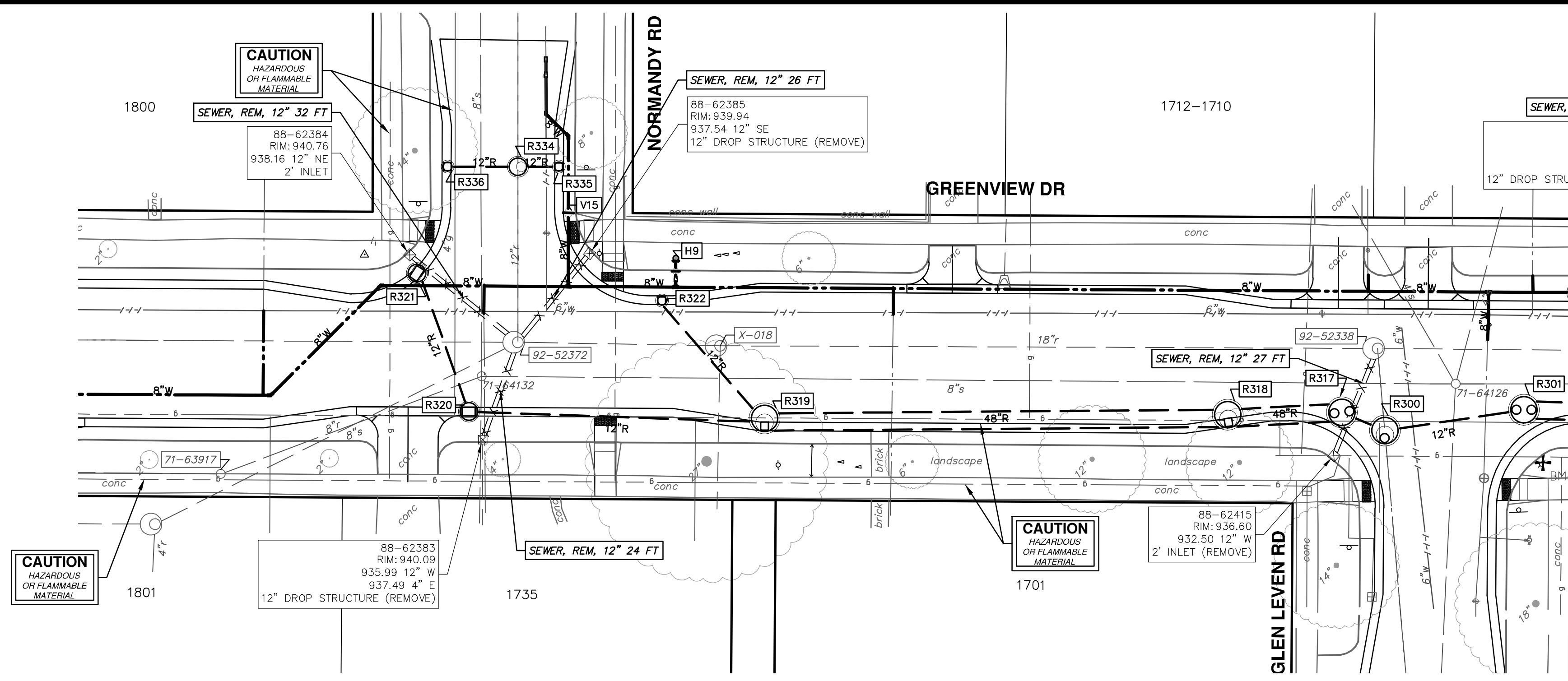
SHEET No. 45 OF 92

REV.	DATE	DESCRIPTION
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01		ADD
02		DRAWN
03		CHECKED
04		TA

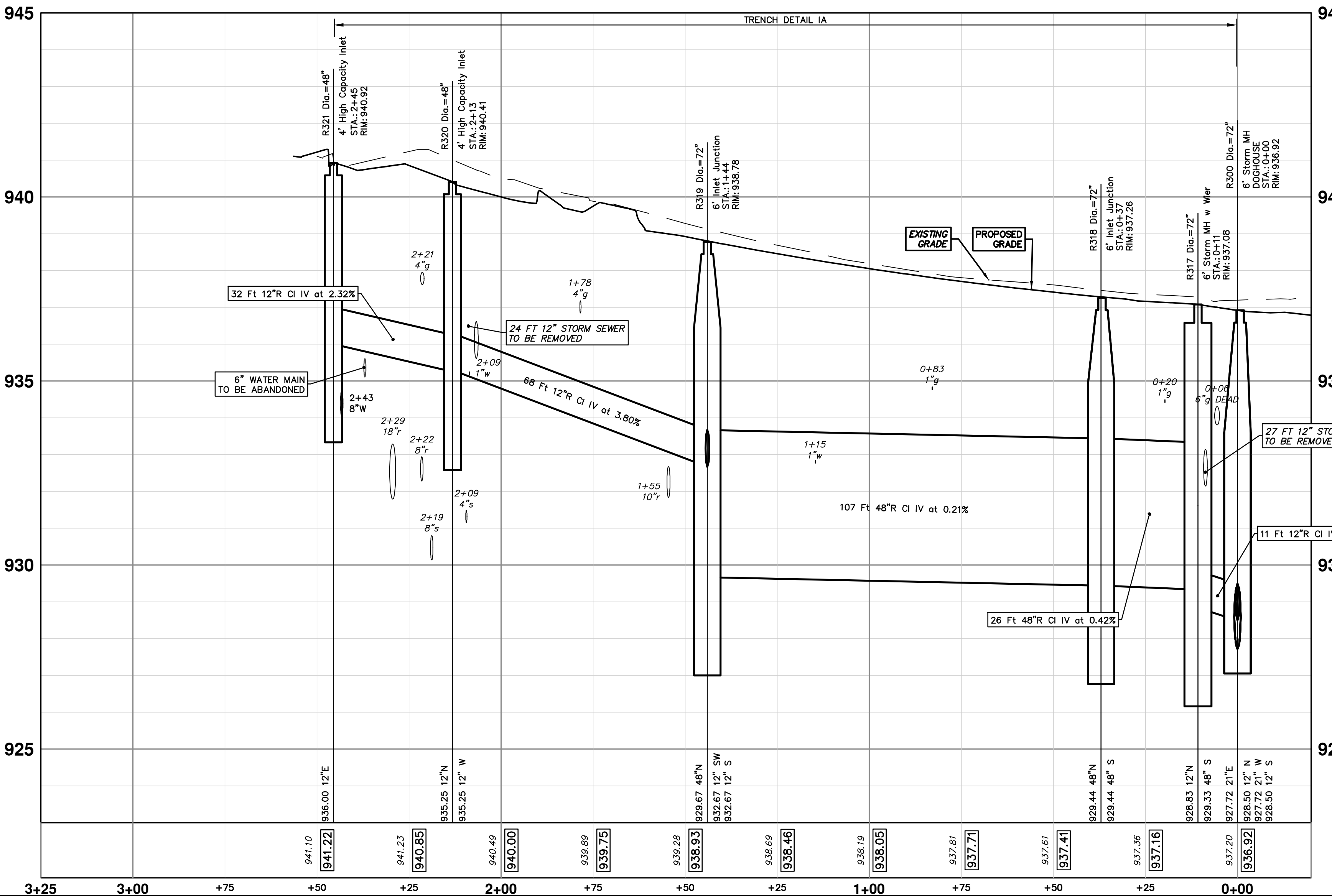
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R300 - R321



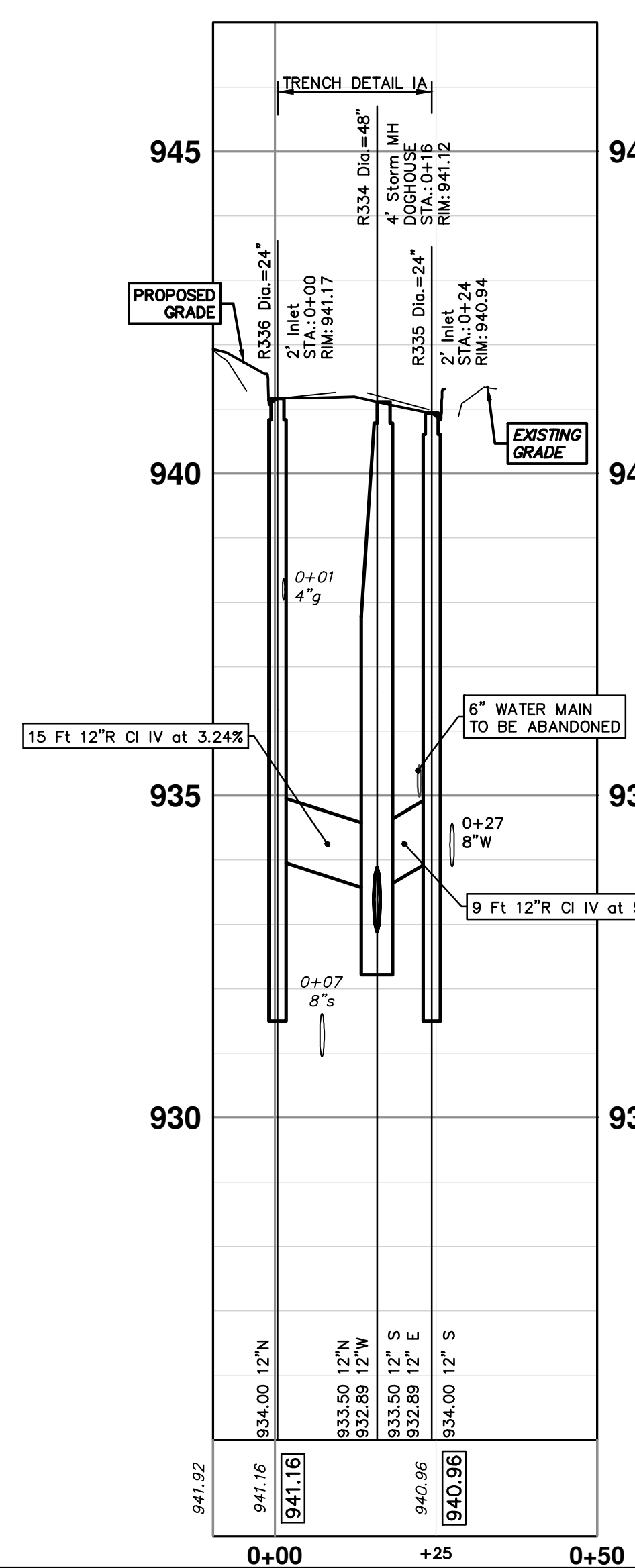
**EXISTING STORM SEWER STRUCTURE REMOVAL TABLE**

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

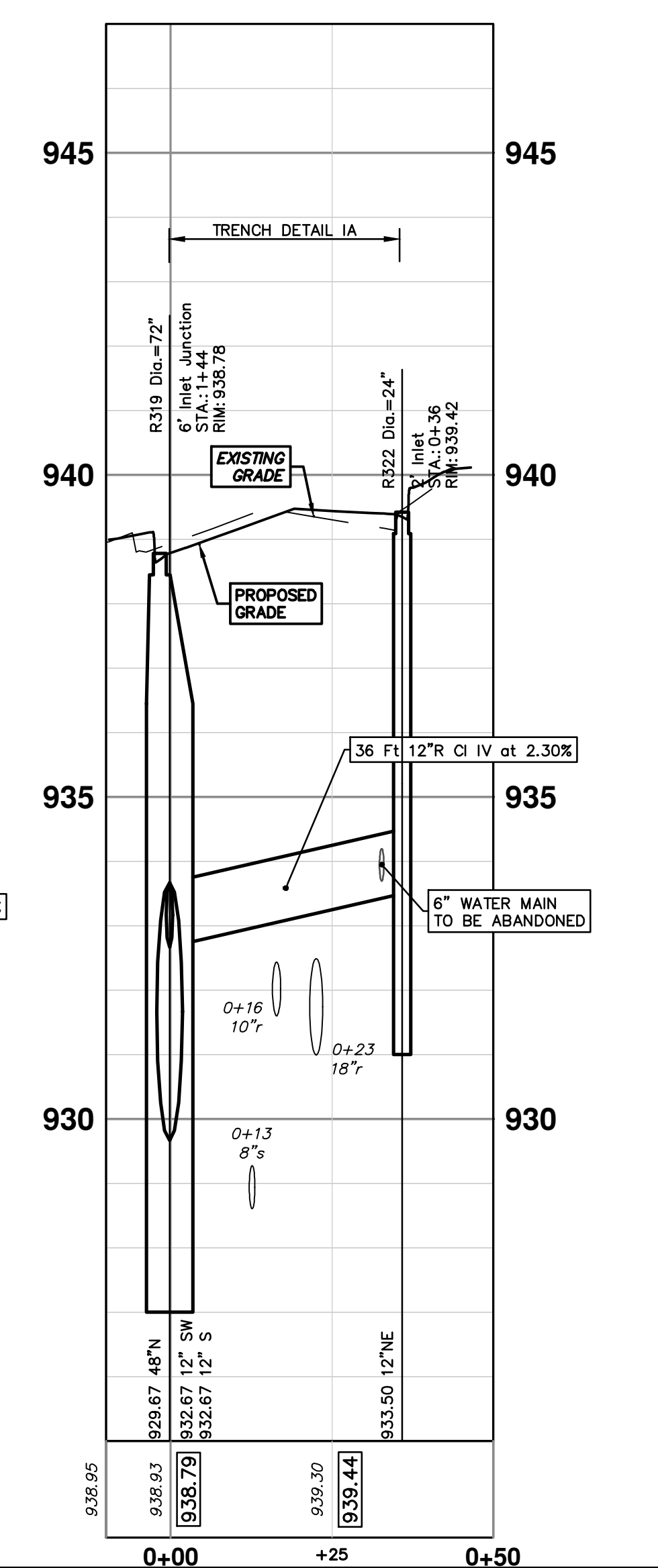
**STORM SEWER STRUCTURE TABLE**

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'

R336 - R335



R319 - R322



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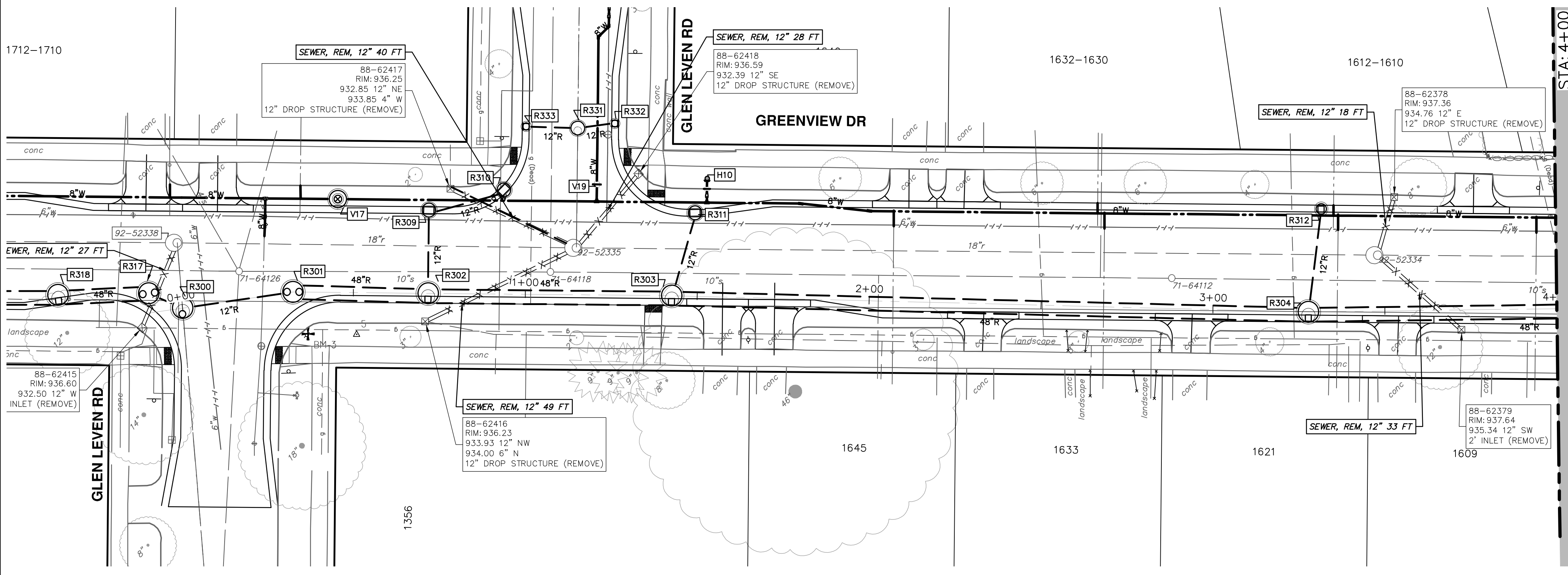
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 STORM SEWER PLAN & PROFILE - GREENVIEW DR NORTH  
 R300 R317 R318 R319 R320 R321 R322 R334 R335 R336

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

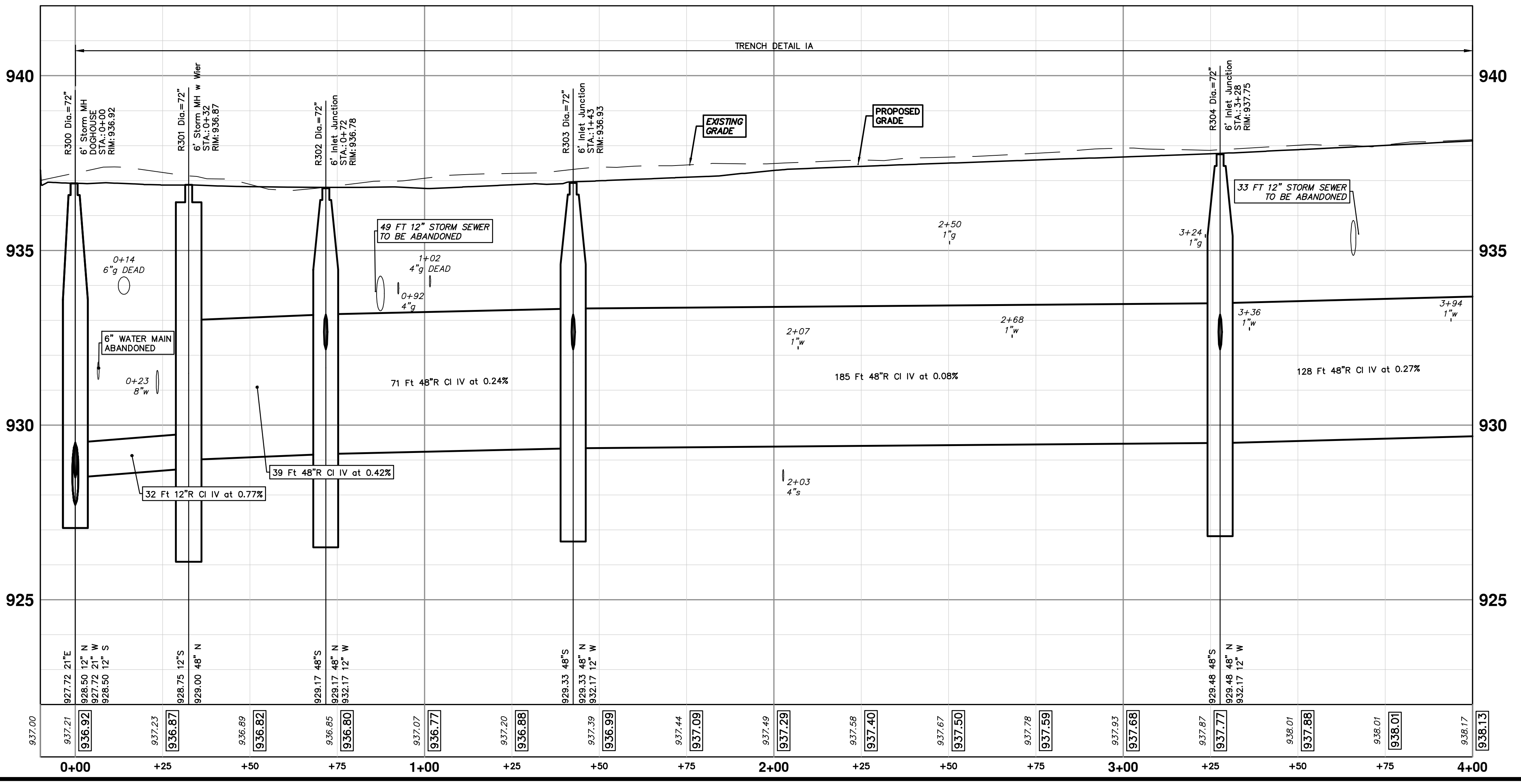
DRAWING NO. 2020031-46  
 SHEET NO. 46 OF 92




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R300 - R308




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'
R301	0+32	6' Storm MH w Wier	936.87	48" N 929.00 12" S 928.75	10.12	2'
R302	0+72	6' Inlet Junction	936.78	48" N 929.17 12" W 932.17 48" S 929.17	9.61	2'
R303	1+43	6' Inlet Junction	936.93	48" N 929.33 12" W 932.17 48" S 929.33	9.60	2'
R304	3+28	6' Inlet Junction	937.75	48" N 929.48 12" W 932.17 48" S 929.48	10.26	2'



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			1-30-24						



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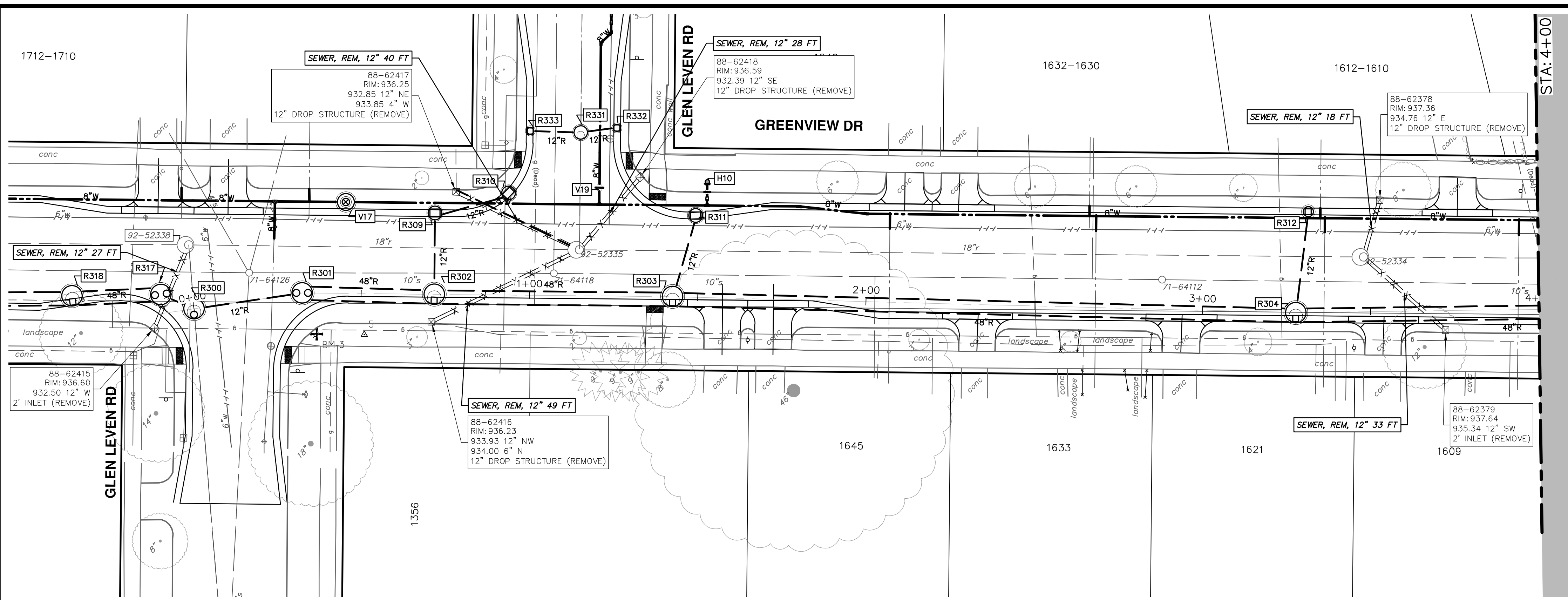
R300 R301 R302 R303 R304

DRAWING NO. **2020031-47**

SHEET NO. **47 OF 92**



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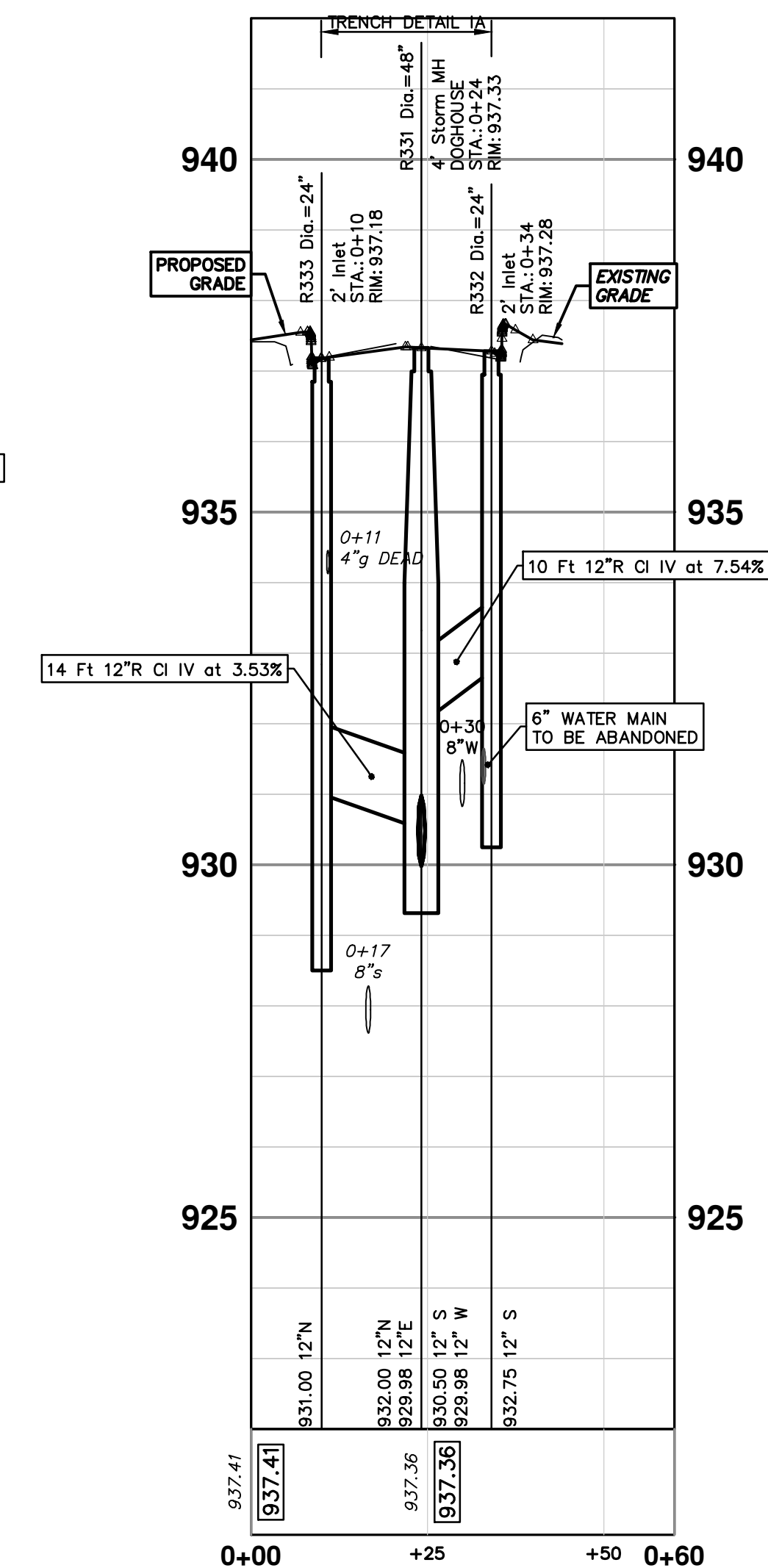
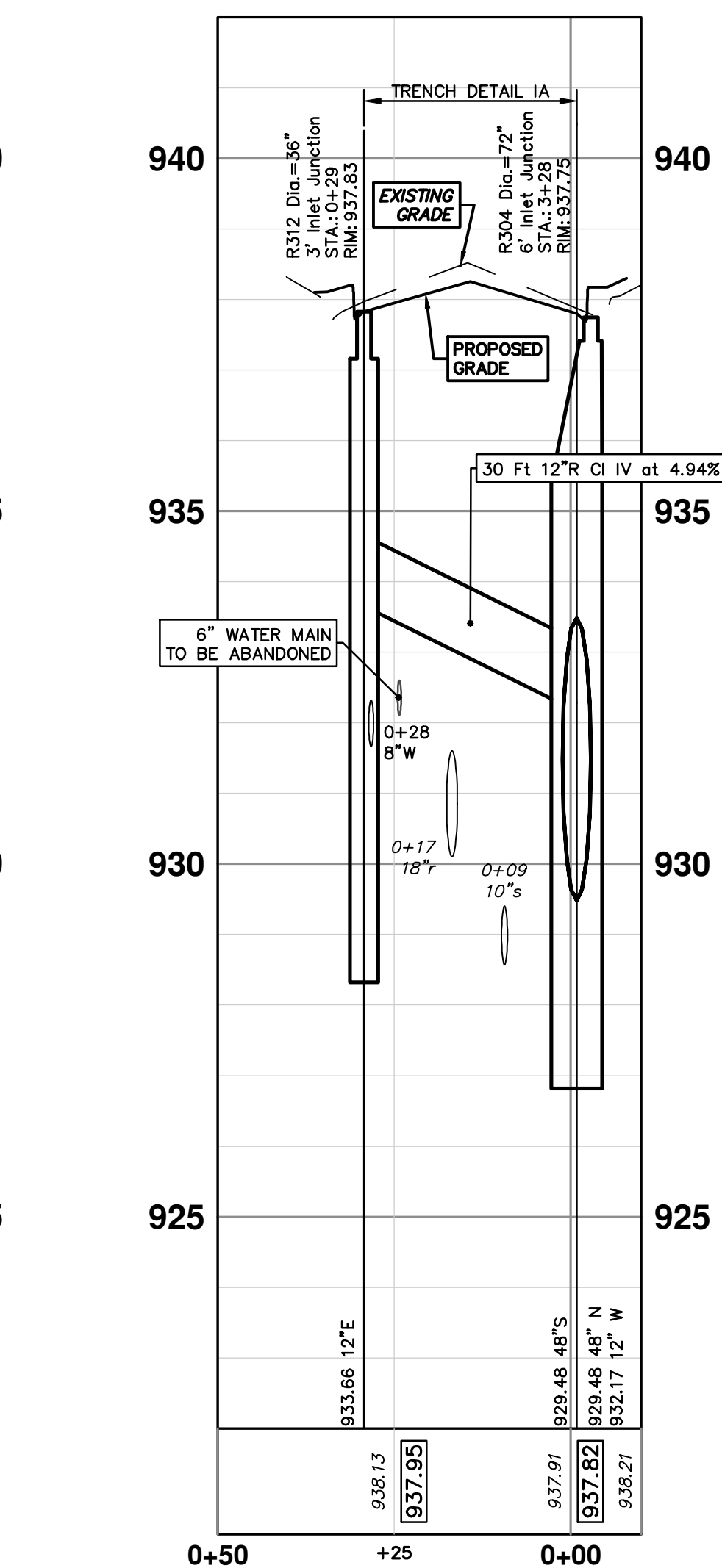
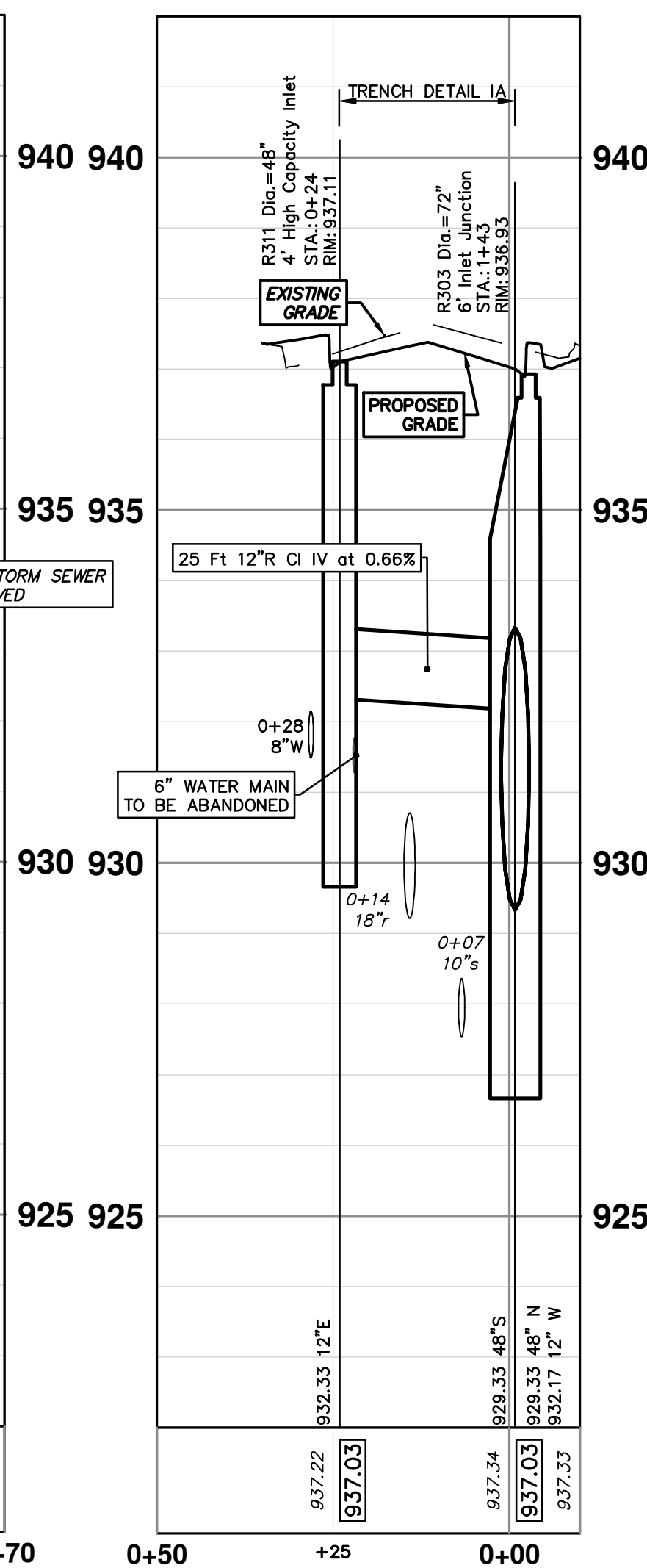
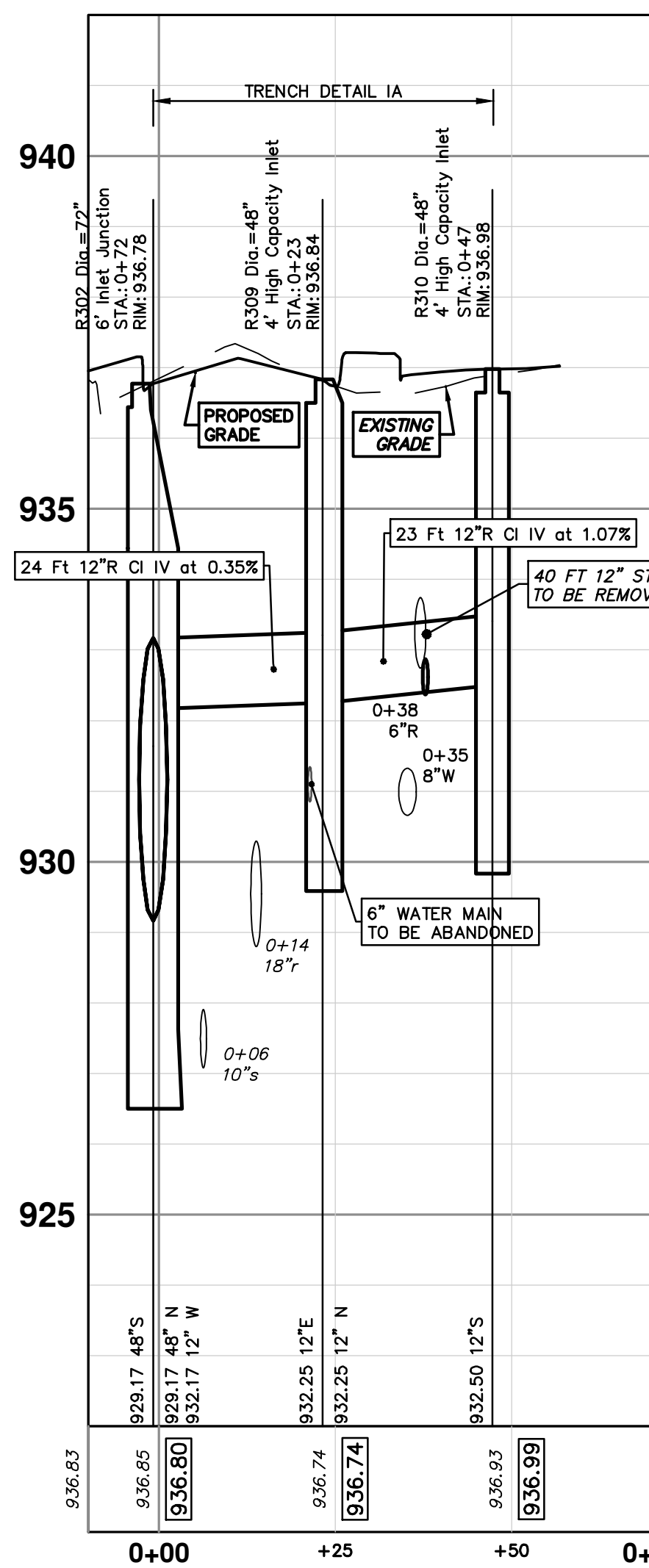
STRUCTURE	DEPTH (Feet)	REMOVE
88-62416	2.30	12" Drop Structure (Remove)
88-62417	3.40	12" Drop Structure (Remove)
88-62418	4.20	12" Drop Structure (Remove)
88-62415	4.10	2' Inlet
88-62378	2.60	12" Drop Structure (Remove)
88-62379	2.30	2' Inlet (Remove)

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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STORM SEWER PLAN & PROFILE - GREENVIEW DR NORTH

R309 R310 R311 R312 R331 R332 R333

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

DRAWING NO. 2020031-48

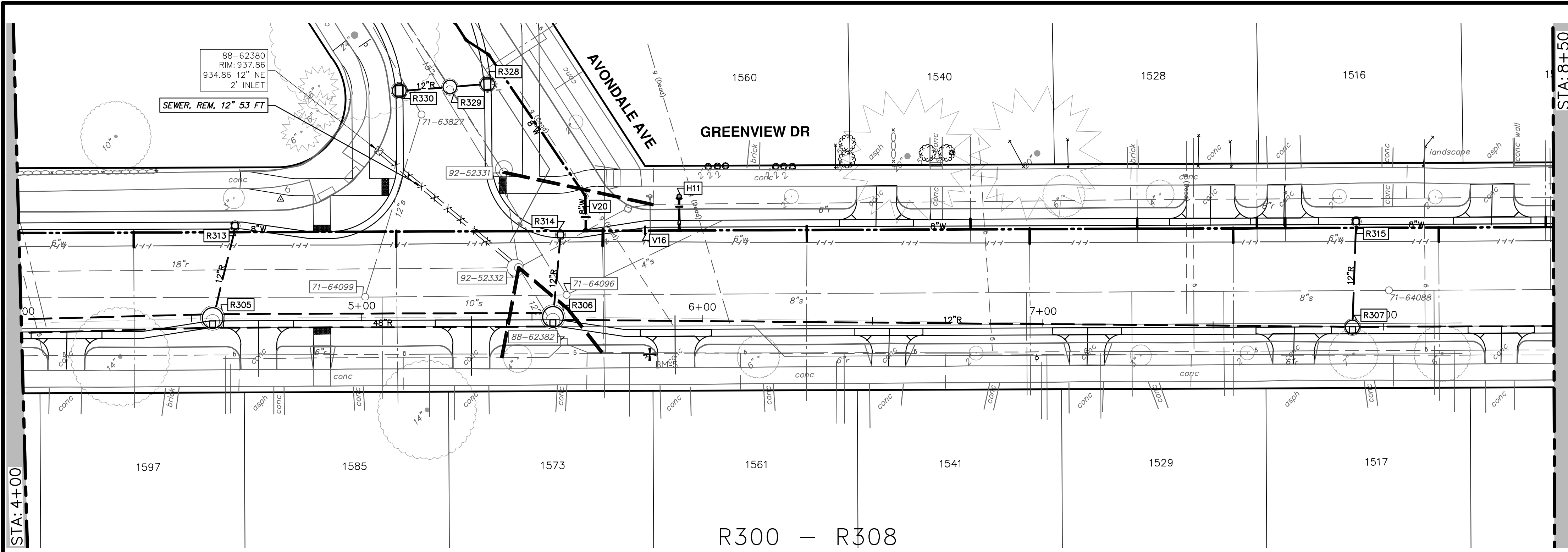
SHEET NO. 48 OF 92

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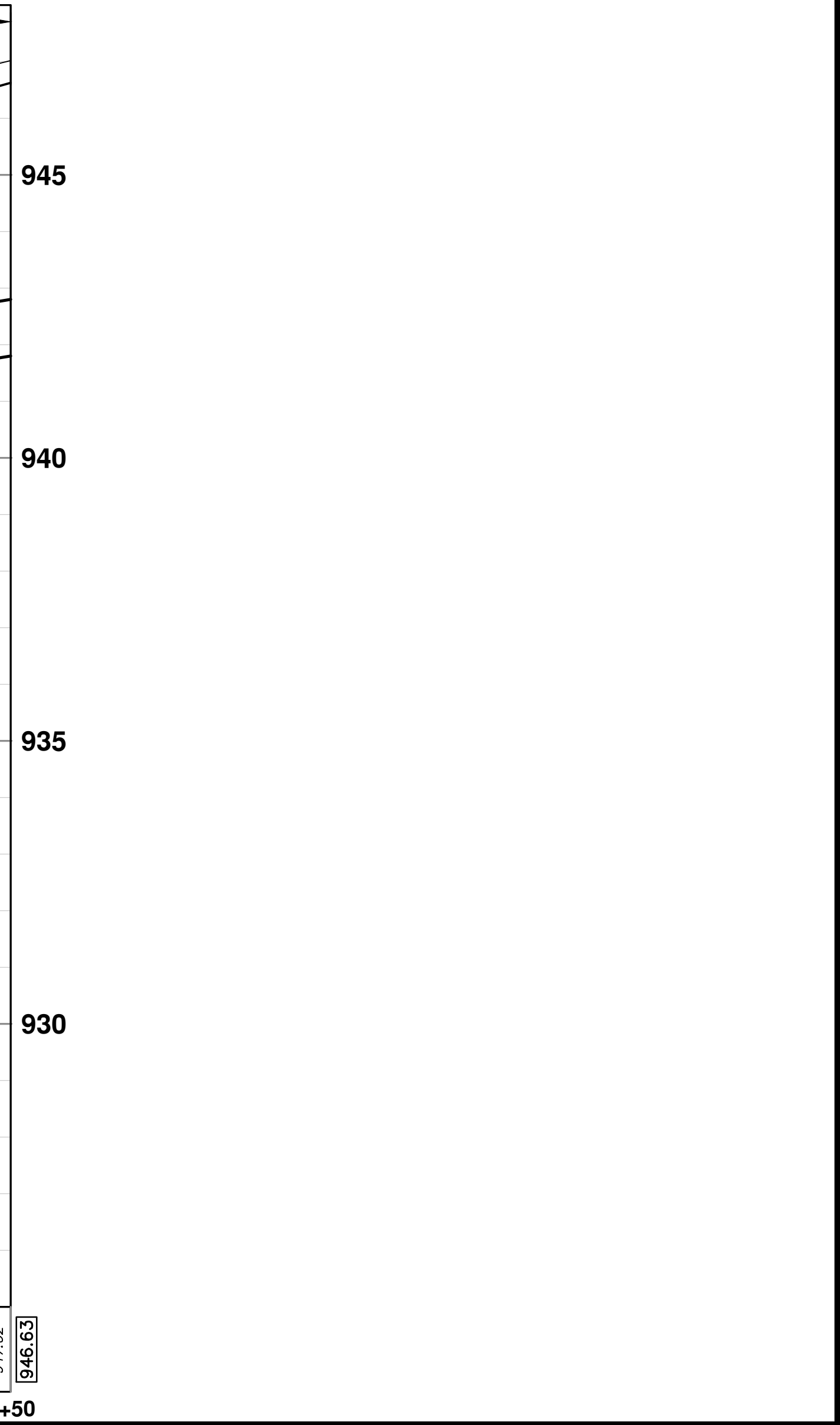
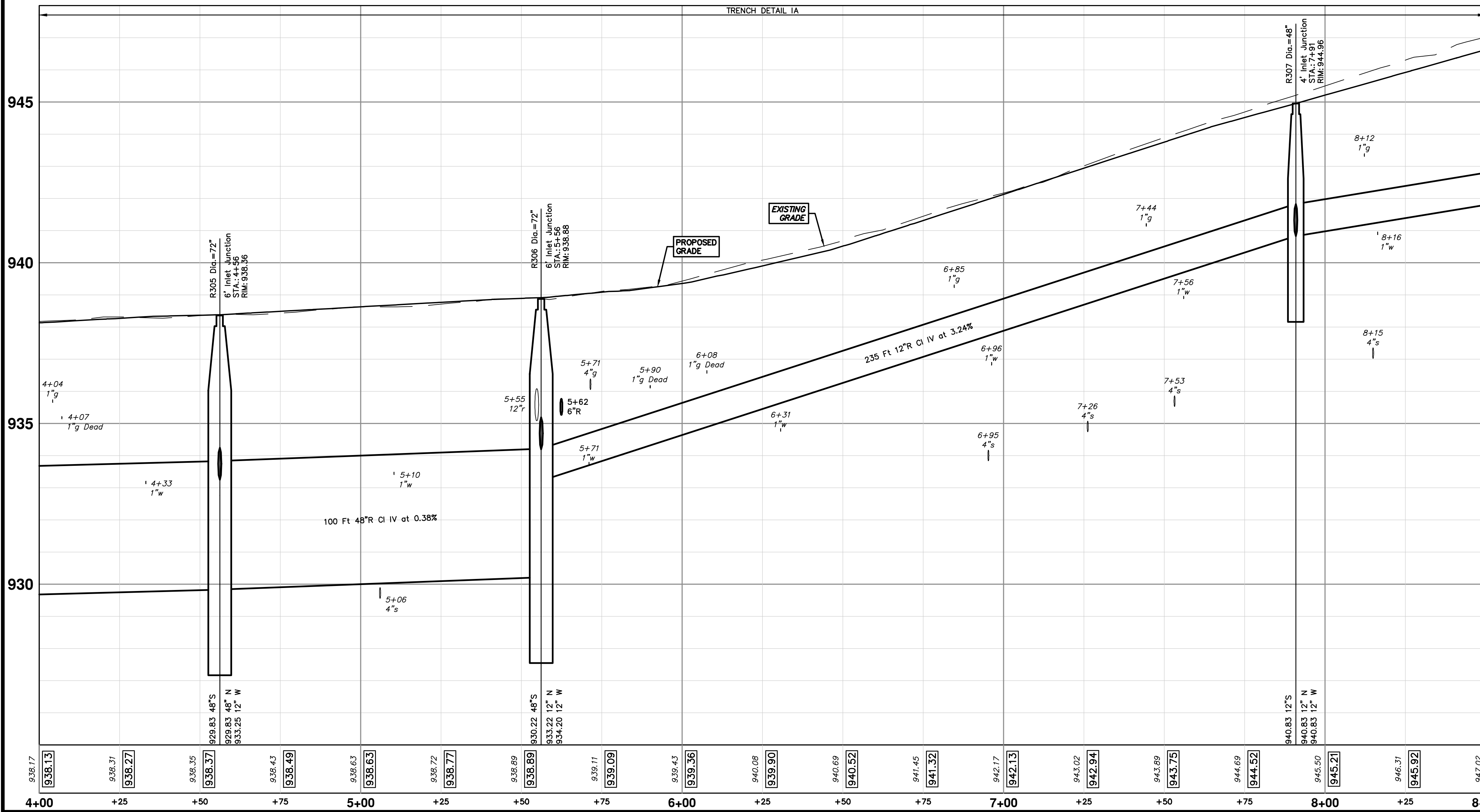
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STORM SEWER STRUCTURE TABLE						
STRUCTURE	UTILITY STATION	TYPE	RIM	INVERTS	DEPTH (Feet)	SUMP
R305	4+56	6" Inlet Junction	938.36	48" N 929.83 12" W 933.25 48" S 929.83	10.53	2'
R306	5+56	6" Inlet Junction	938.88	12" N 933.22 12" W 934.20 48" S 930.22	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'





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



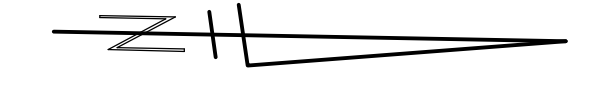
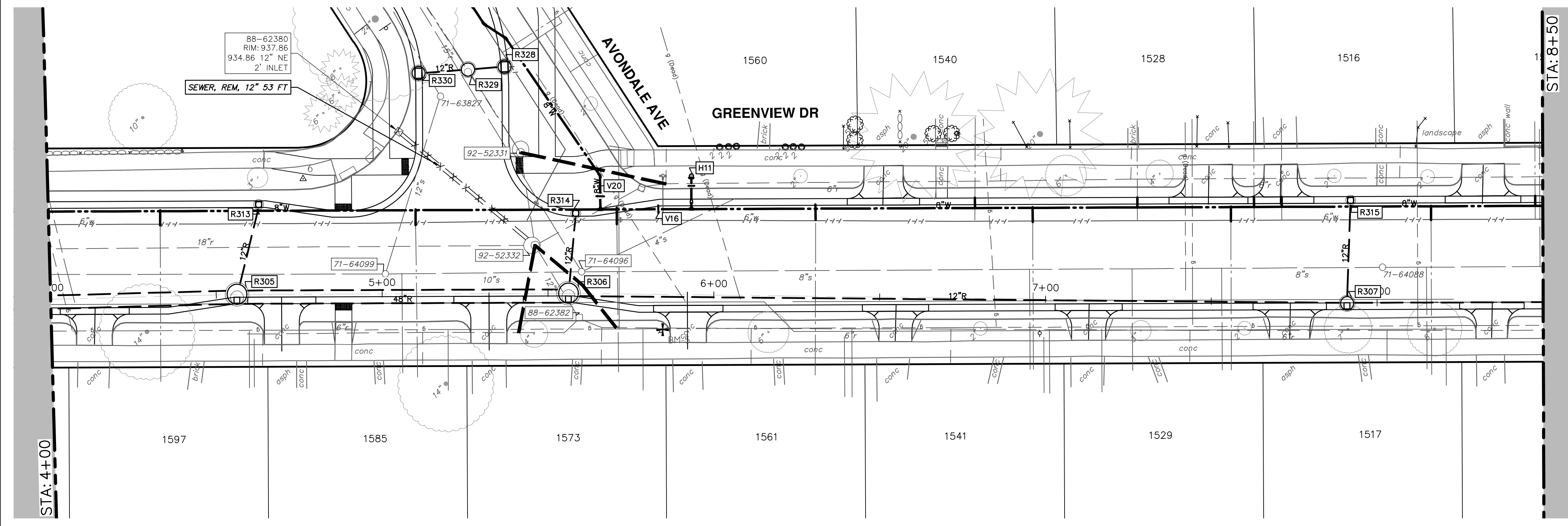
**CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING**  
**S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS**  
 STORM SEWER PLAN & PROFILE - GREENVIEW DR NORTH  
 R305 R306 R307

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

DRAWING NO. 2020031-49  
 SHEET No. 49 OF 92



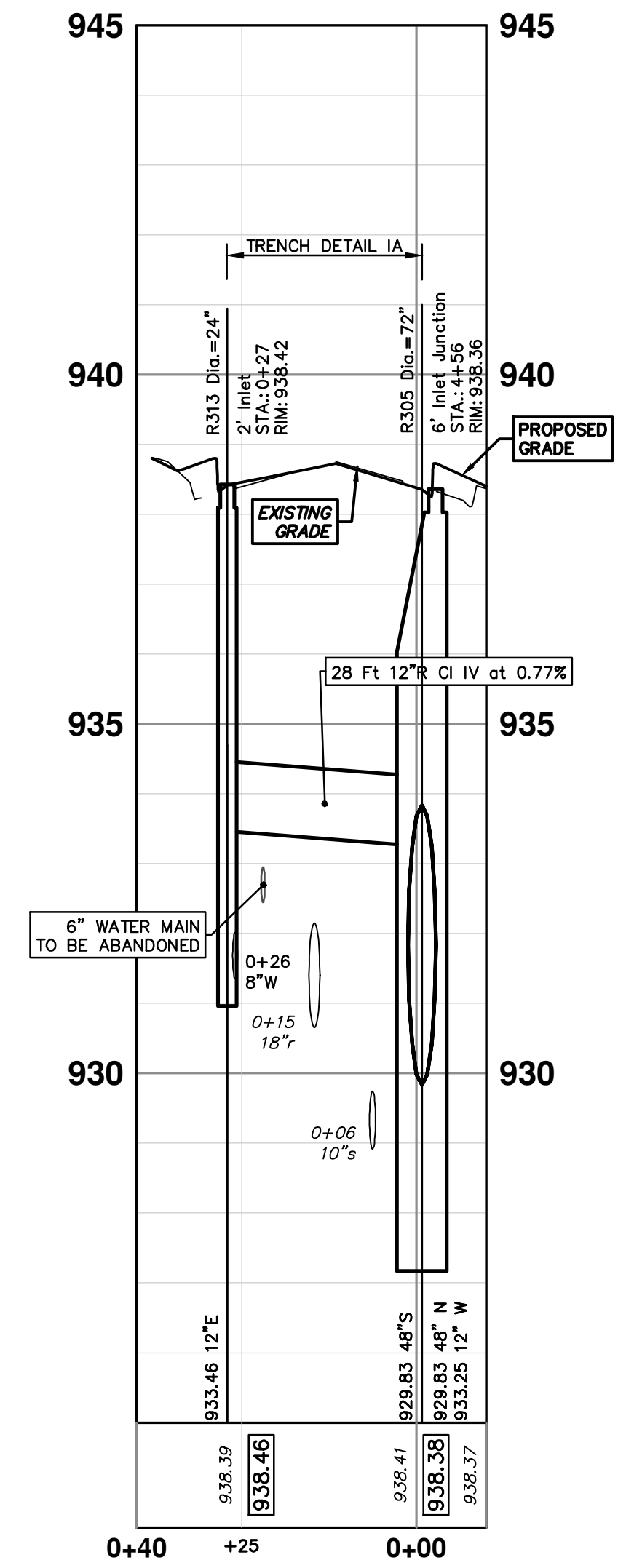
R:\2023002\_Greenview\Plan Production\2023002Strm.dwg Dwg Created: 30-Jan-24 - Plot Date: 30-Jan-24



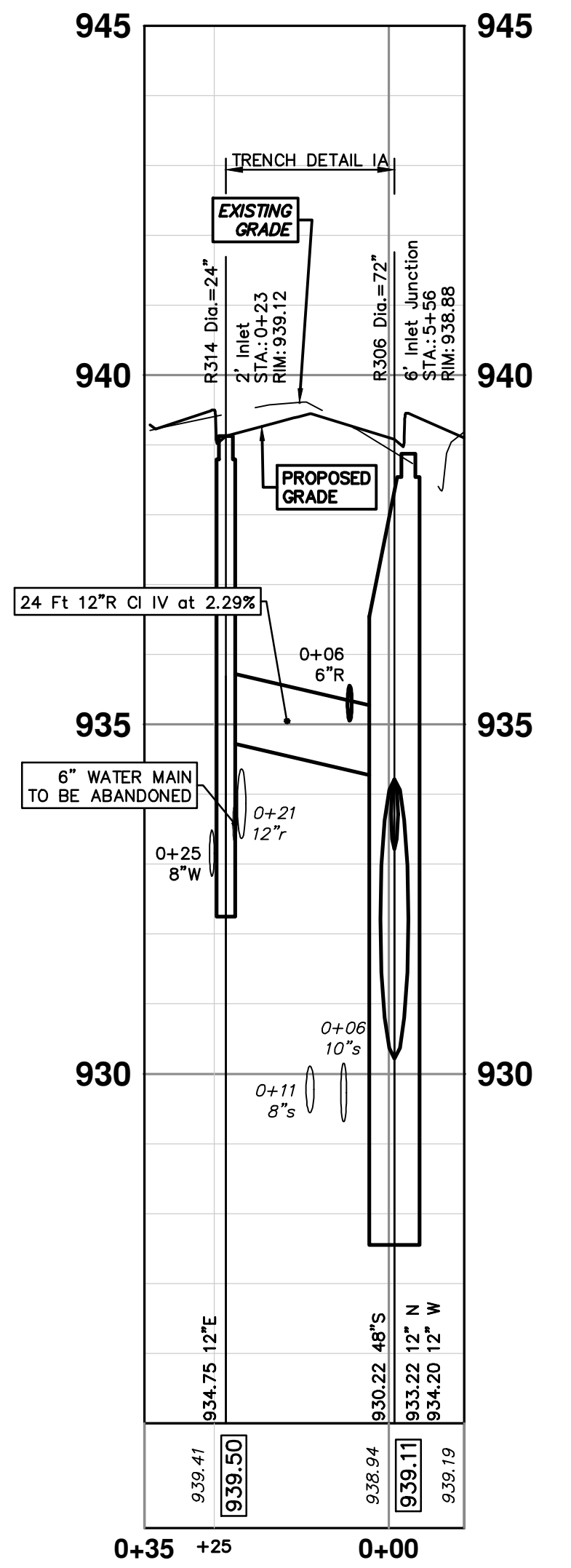
STA: 8+50

STA: 4+00

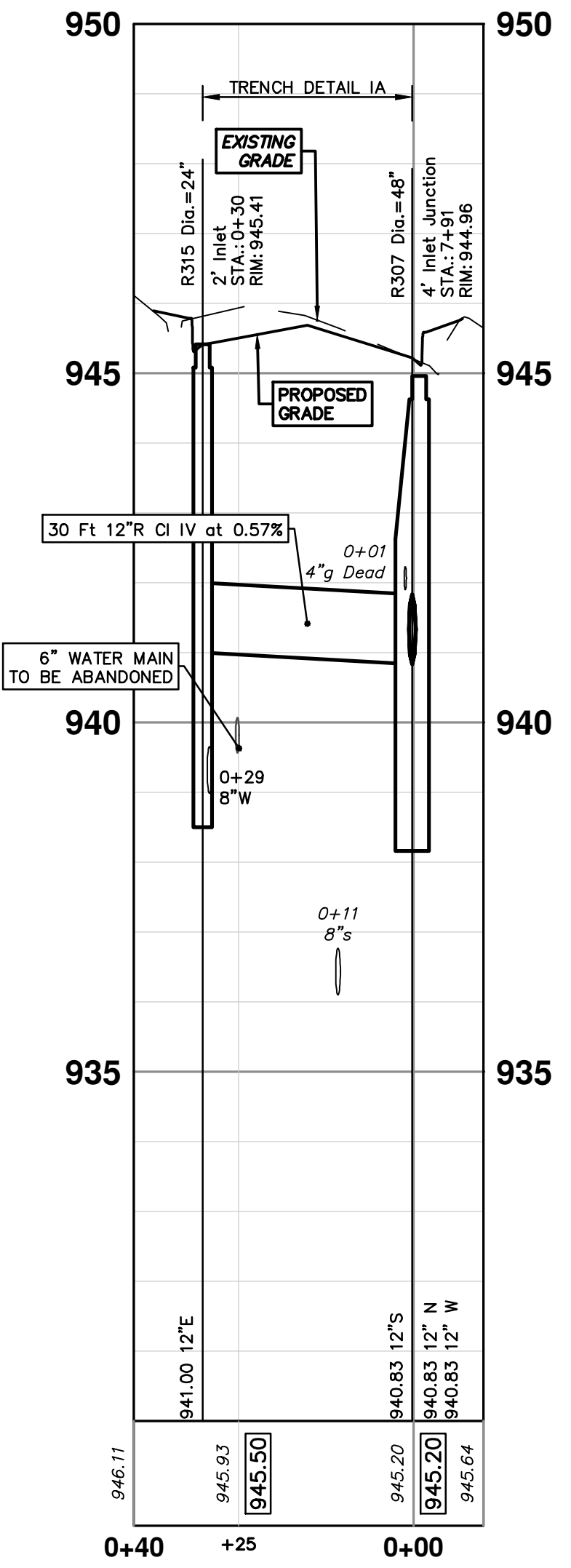
R305 - R313



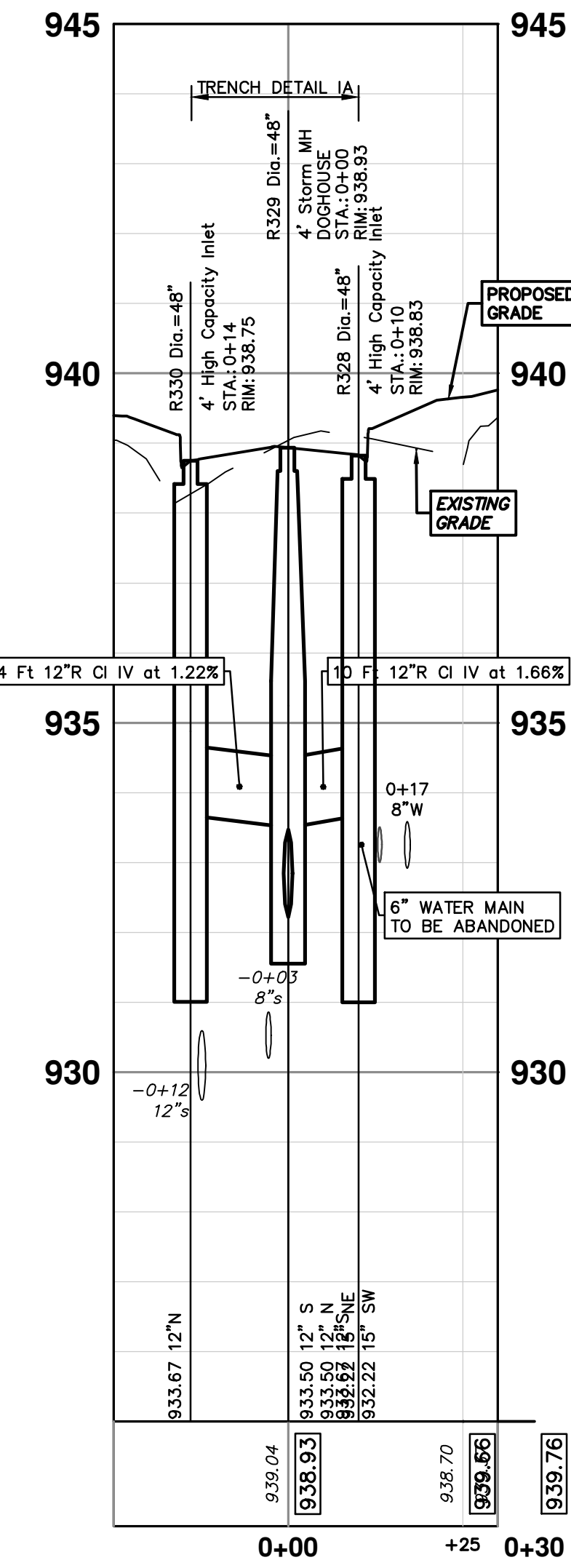
R306 - R314



R307 - R315



R328 - R330



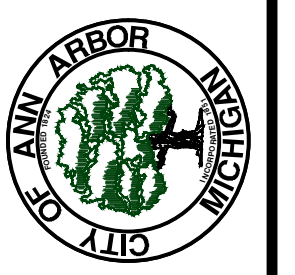
STORM SEWER STRUCTURE TABLE						
STRUCTURE	UTILITY STATION	TYPE	RIM	INVERTS	DEPTH (Feet)	SUMP
R313	0+27	2' Inlet	938.42	12" E 933.46	6.96	2'
R314	0+23	2' Inlet	939.12	12" E 934.75	6.37	2'
R315	0+30	2' Inlet	945.41	12" E 941.00	6.41	2'
R328	0+10	4' High Capacity Inlet	938.83	12" S 933.67	7.16	2'
R329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



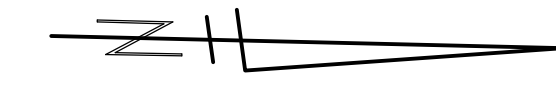
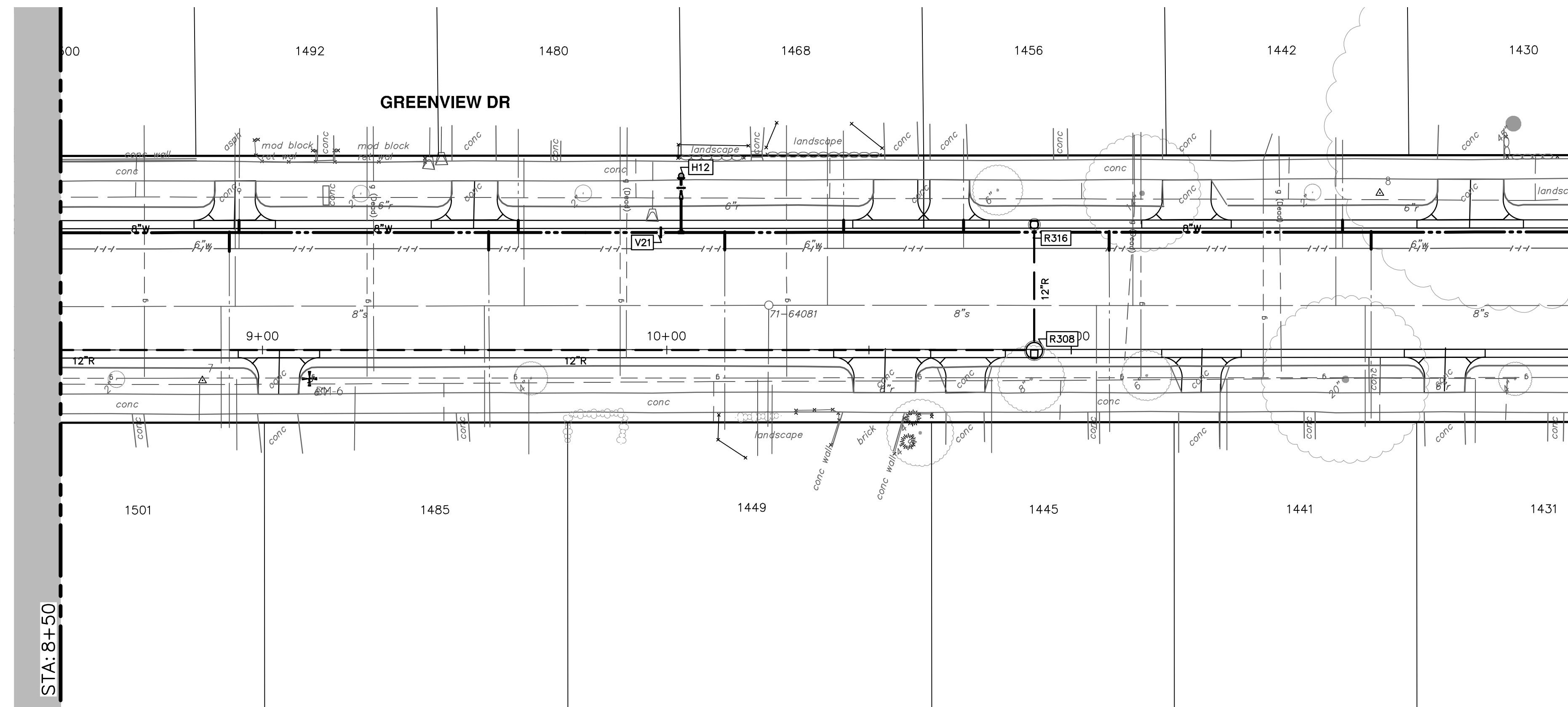
REV.	DATE	DESCRIPTION
00	1-30-24	BID SET
		A2D DRAWN
		TA CHECKED

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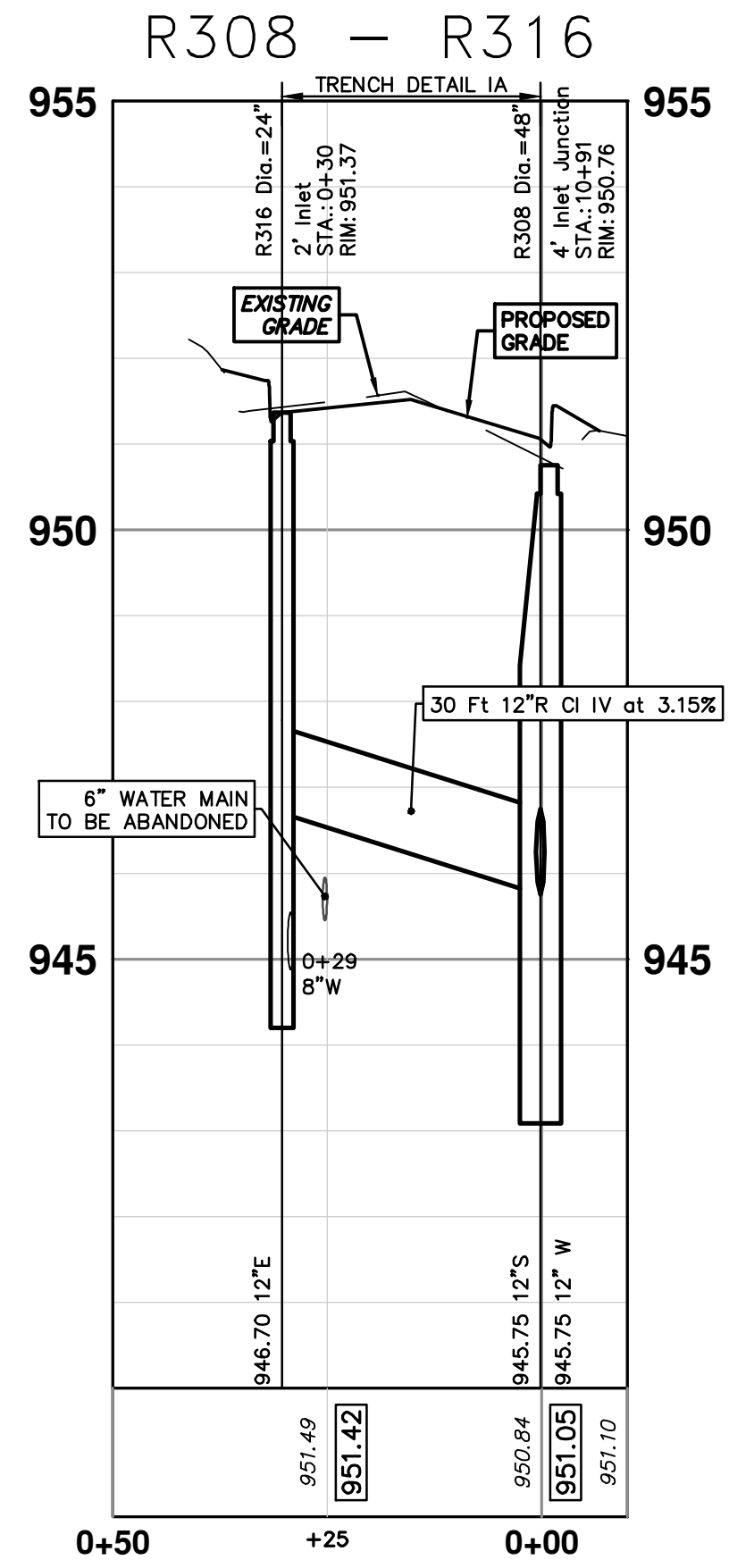
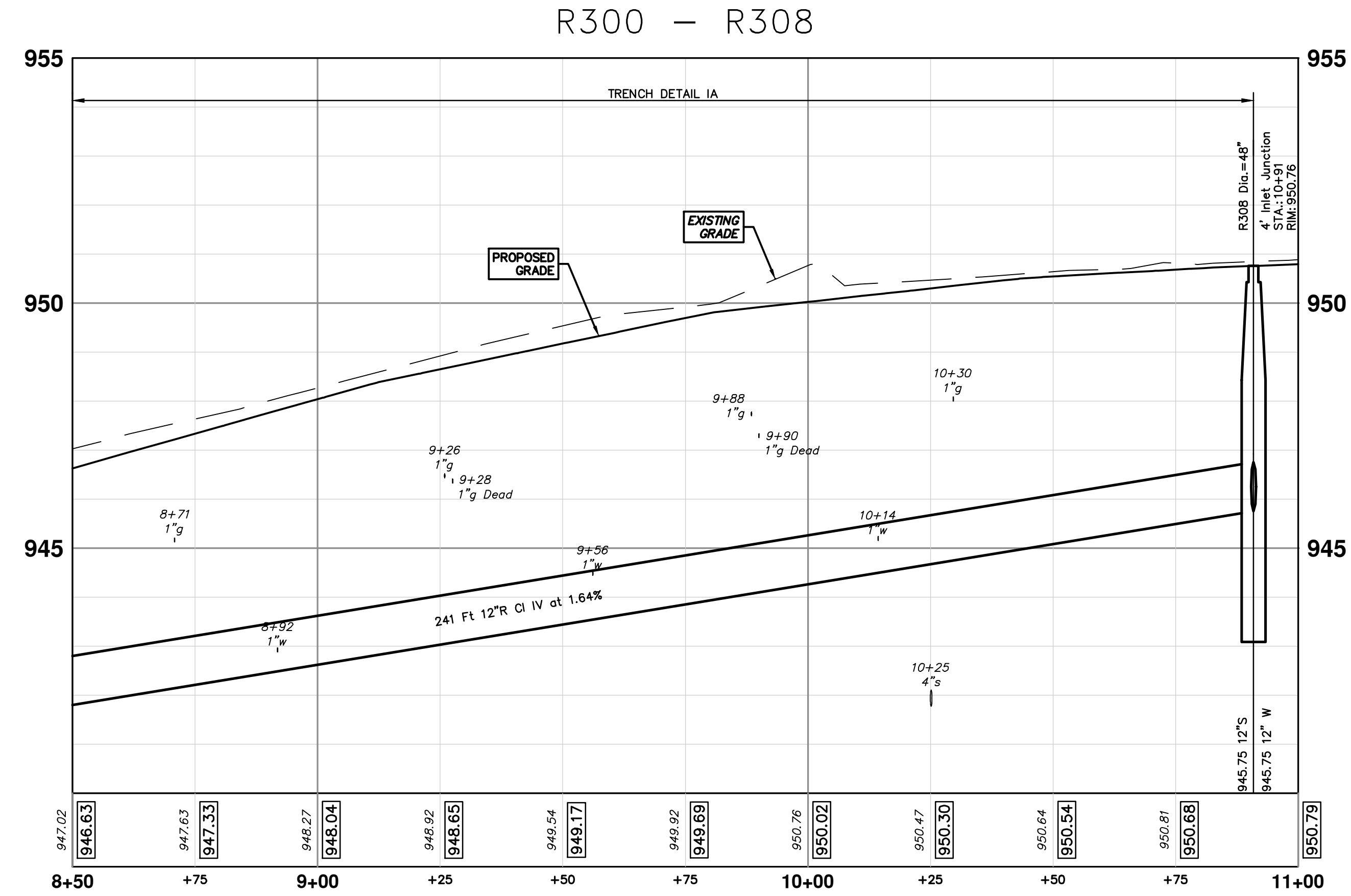
CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING  
S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS  
STORM SEWER PLAN & PROFILE - GREENVIEW DR NORTH  
R313 R314 R315 R328 R329 R330





STA: 8+50

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'



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

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

STORM SEWER PLAN & PROFILE - GREENVIEW DR NORTH

R308 R316

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

DRAWING NO. 2020031-51

SHEET NO. 51 OF 92

**811**  
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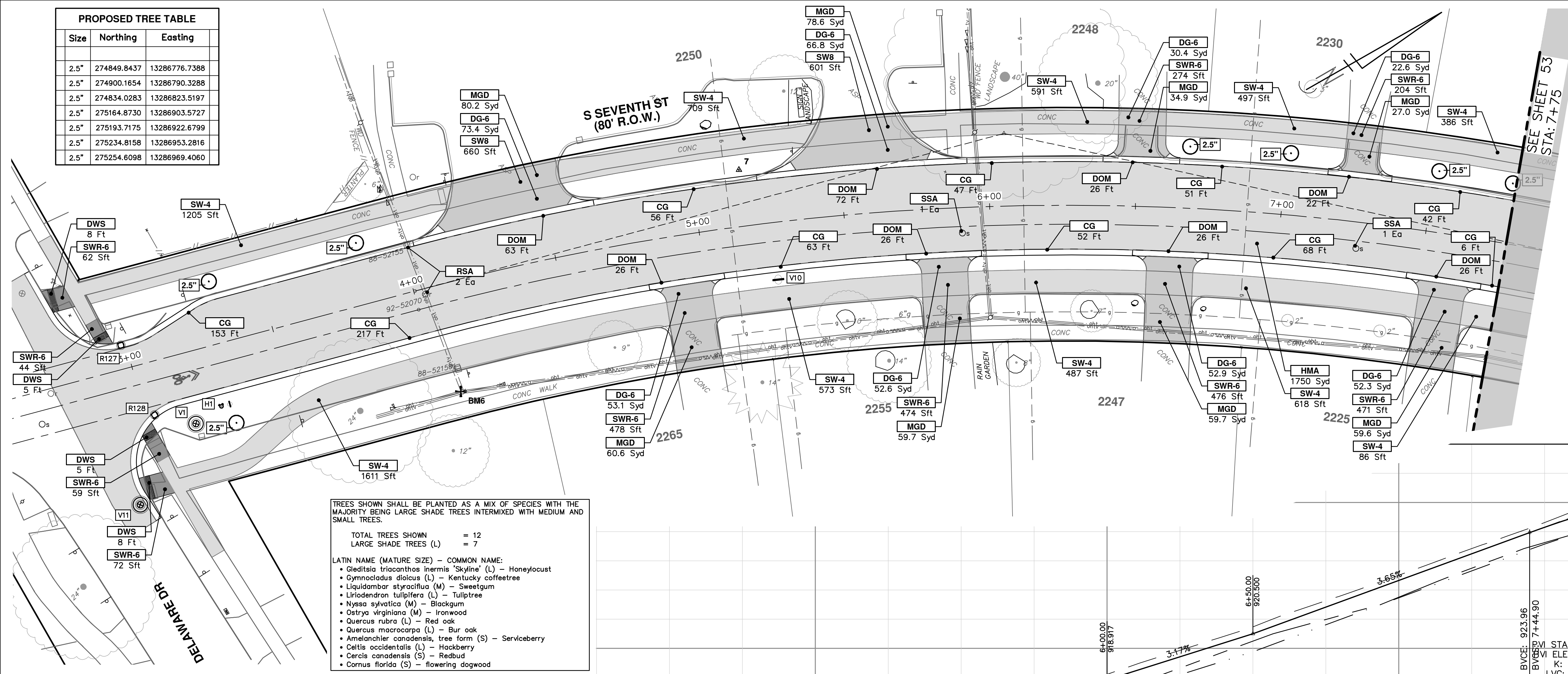
REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	1-30-24	AZD	TA

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ANN ARBOR 734-794-4410  
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R:\2020031 - S 7th Street\Plan Production\2020031Prd.dwg Dwg Created: 30-Jan-24 - \_a2 standard bw.stb - Plot Date: 30-Jan-24

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



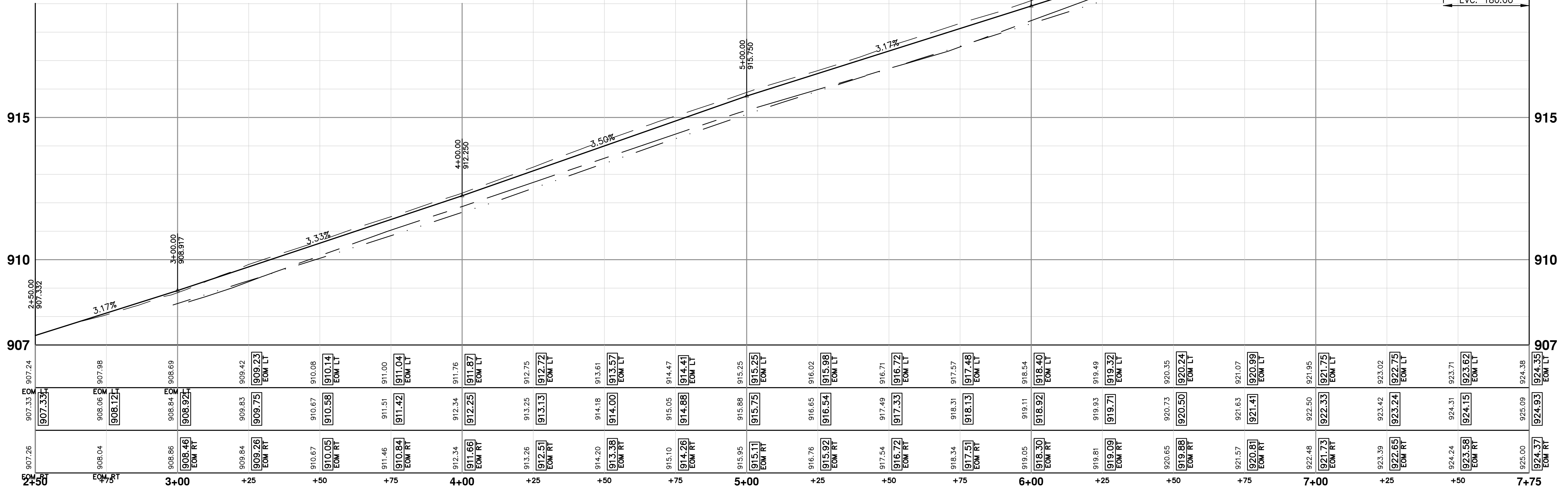
TREES SHOWN SHALL BE PLANTED AS A MIX OF SPECIES WITH THE MAJORITY BEING LARGE SHADE TREES INTERMIXED WITH MEDIUM AND SMALL TREES.


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	DRIVEWAY GRAVEL 6 INCH 21AA LIMESTONE, C.I.P.
MGD	MACHINE GRADING, DRIVEWAY
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
SW8	Conc. Sidewalk, Drive Approach, or Ramp, 8 in.
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 - S SEVENTH STREET

STA. 2+00 - STA. 7+75

SCALE PLAN: 1" = 20'

PROFILE: 1" = 2'

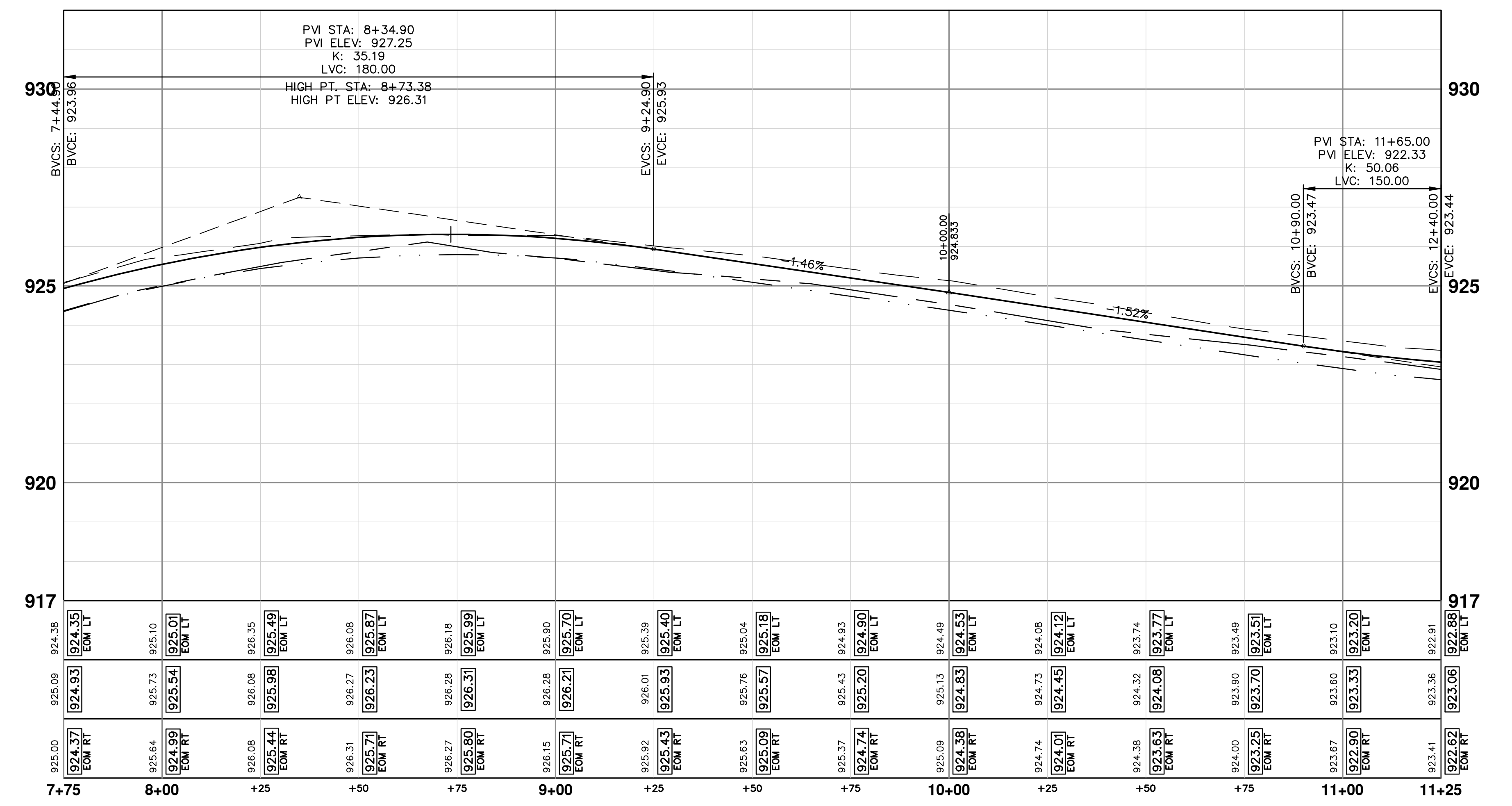
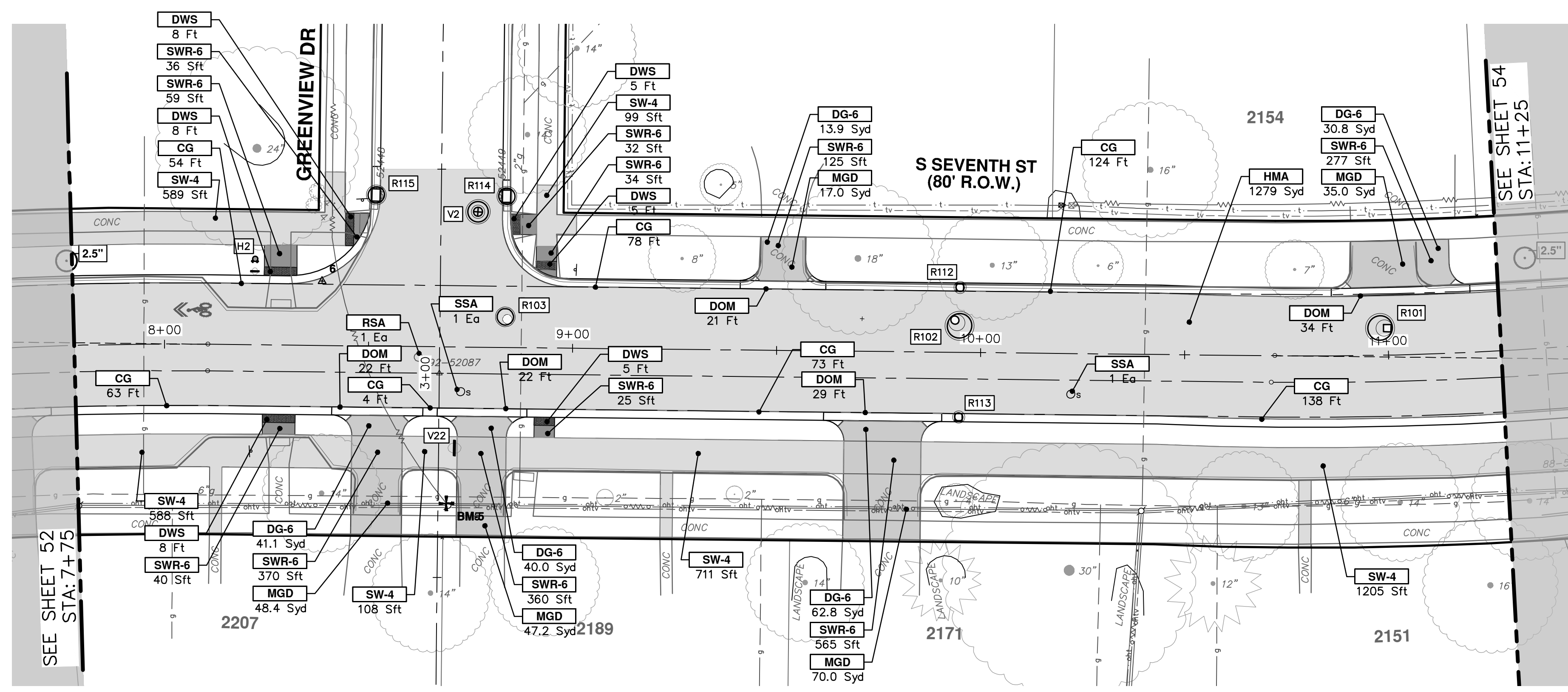
PROF. 1" = 2'

SHEET No. 52 OF 92

DRAWING No. 2020031-52

City of Ann Arbor Public Services 301 East Huron Street Ann Arbor, MI 48106-6647 www.a2gov.org





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	DRIVEWAY GRAVEL 6 INCH 21AA LIMESTONE, C.I.P.
MGD	MACHINE GRADING, DRIVEWAY
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
SW8	Conc, Sidewalk, Drive Approach, or Ramp, 8 In.
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. Call Before you dig.

DATE: 1-30-24  
DRAWN: TA  
CHECKED: [ ]

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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

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

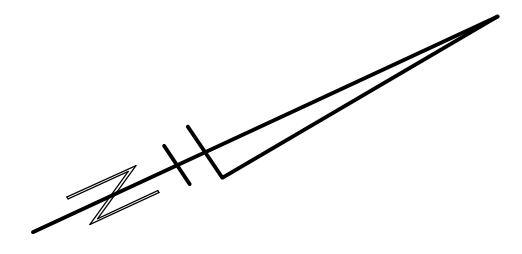
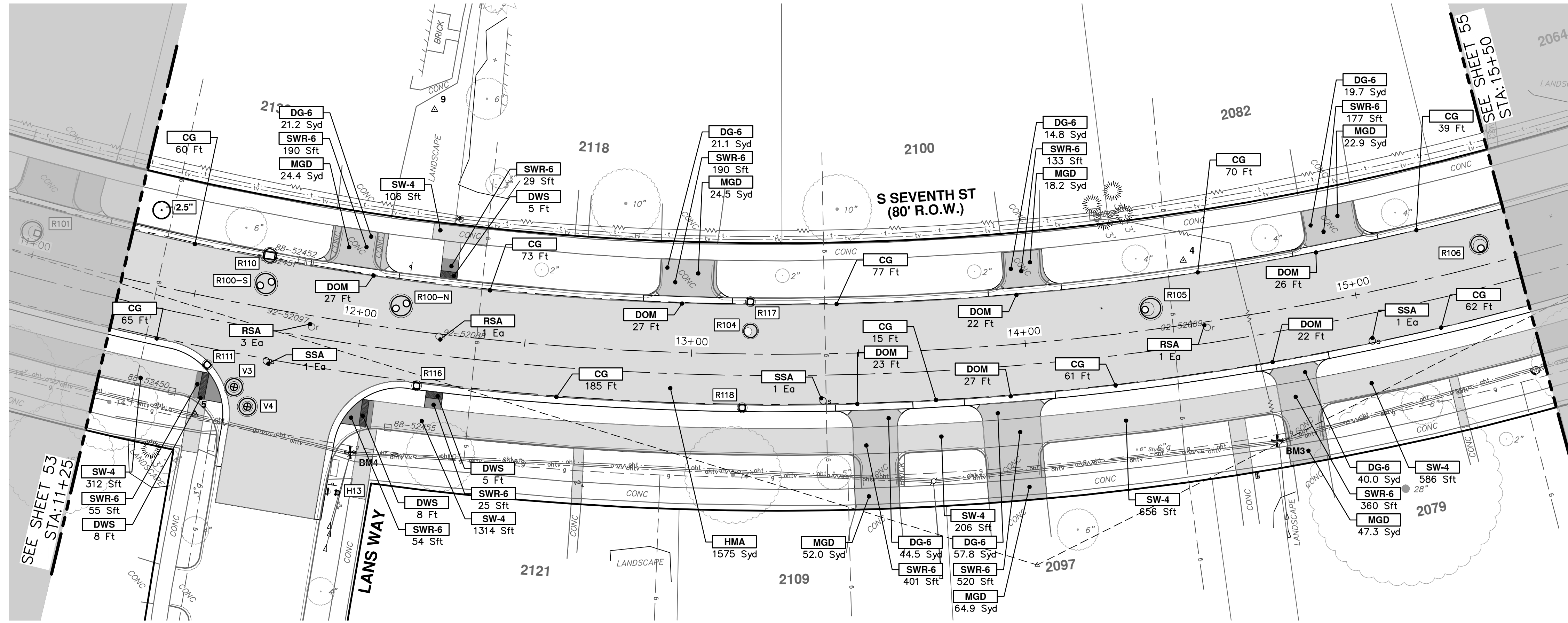
DRAWING No. 2020031-53

SHEET No. 53 OF 92

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



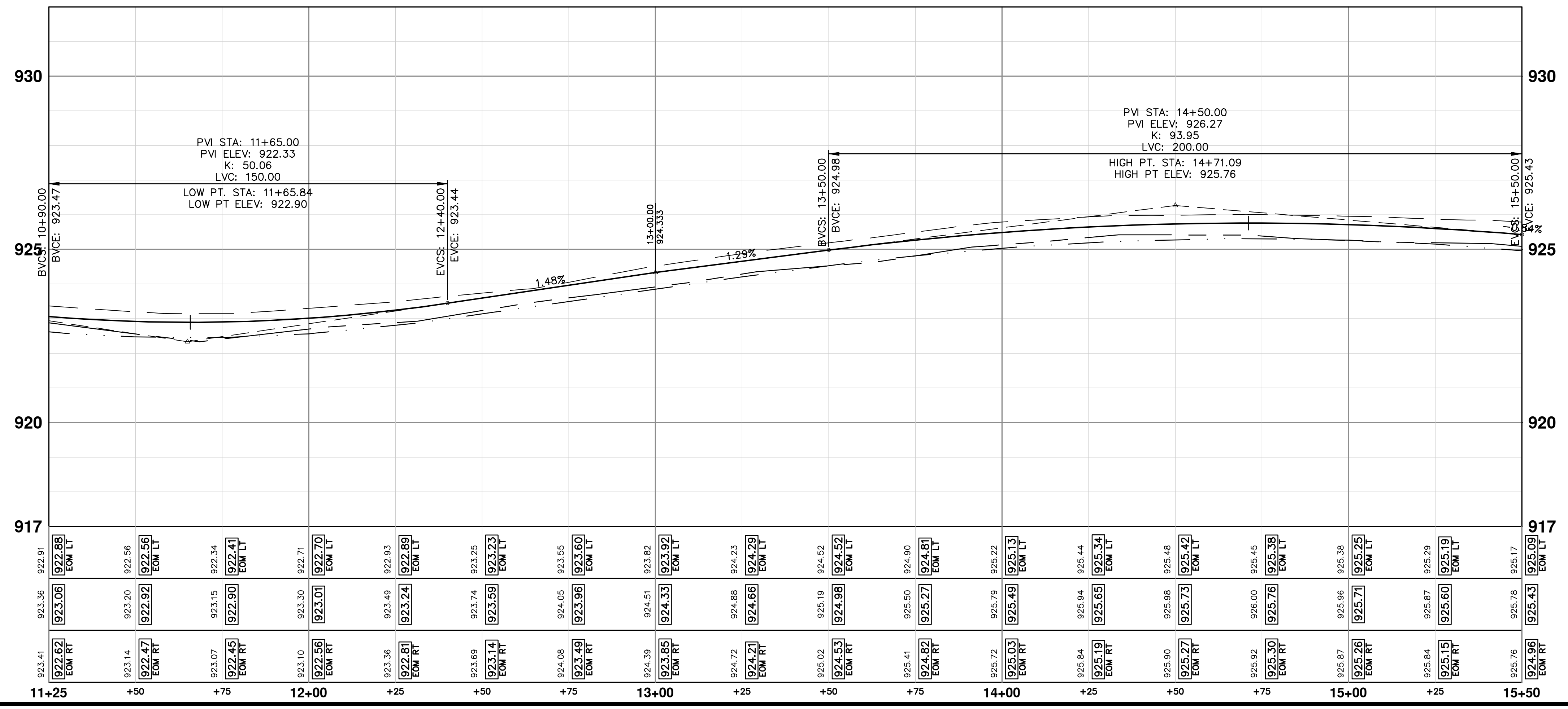


**PROPOSED TREE TABLE**

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	DRIVEWAY GRAVEL 6 INCH 21AA LIMESTONE, C.I.P.
MGD	MACHINE GRADING, DRIVEWAY
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
SW8	Conc, Sidewalk, Drive Approach, or Ramp, 8 In.
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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SCALE PLAN: 1" = 20'  
PROFILE: 1" = 2'

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

ROAD PLAN & PROFILE - S SEVENTH STREET

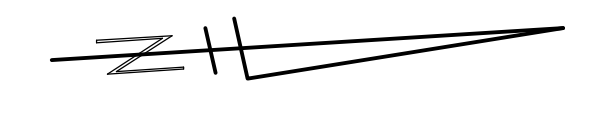
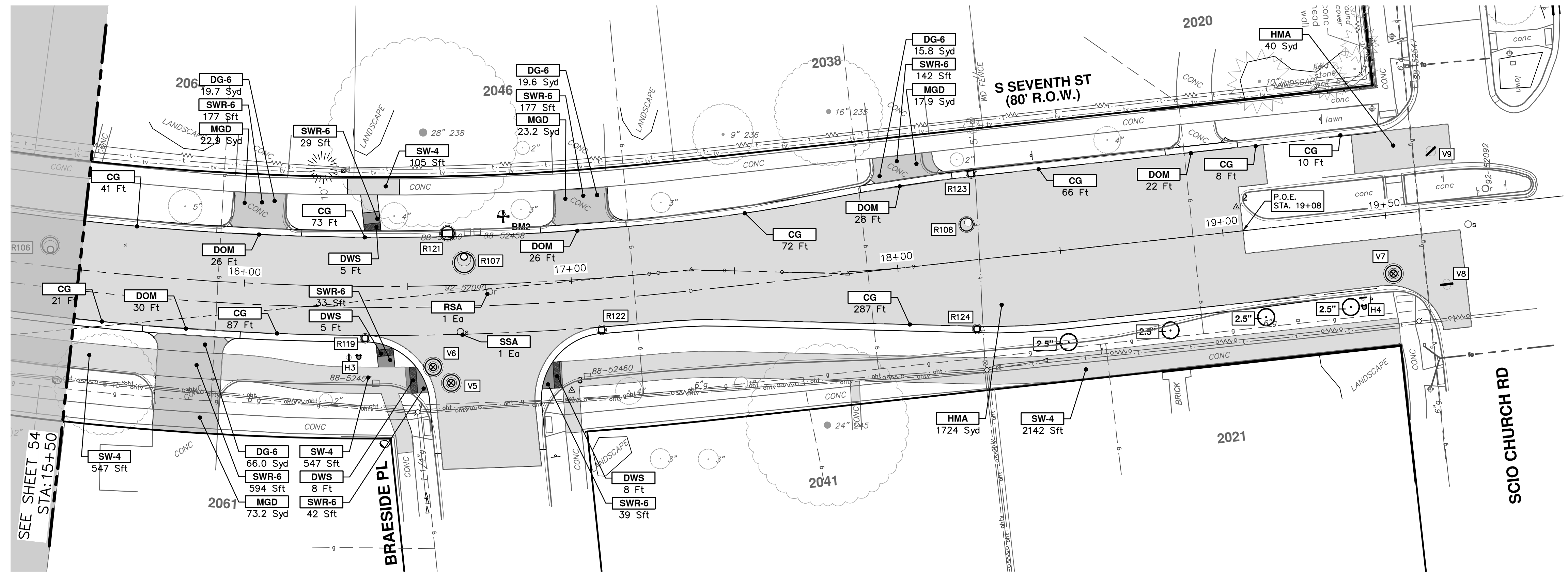
STA. 11+25 - STA. 15+50

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SHEET No. **54 OF 92**

DRAWING No. **2020031-54**



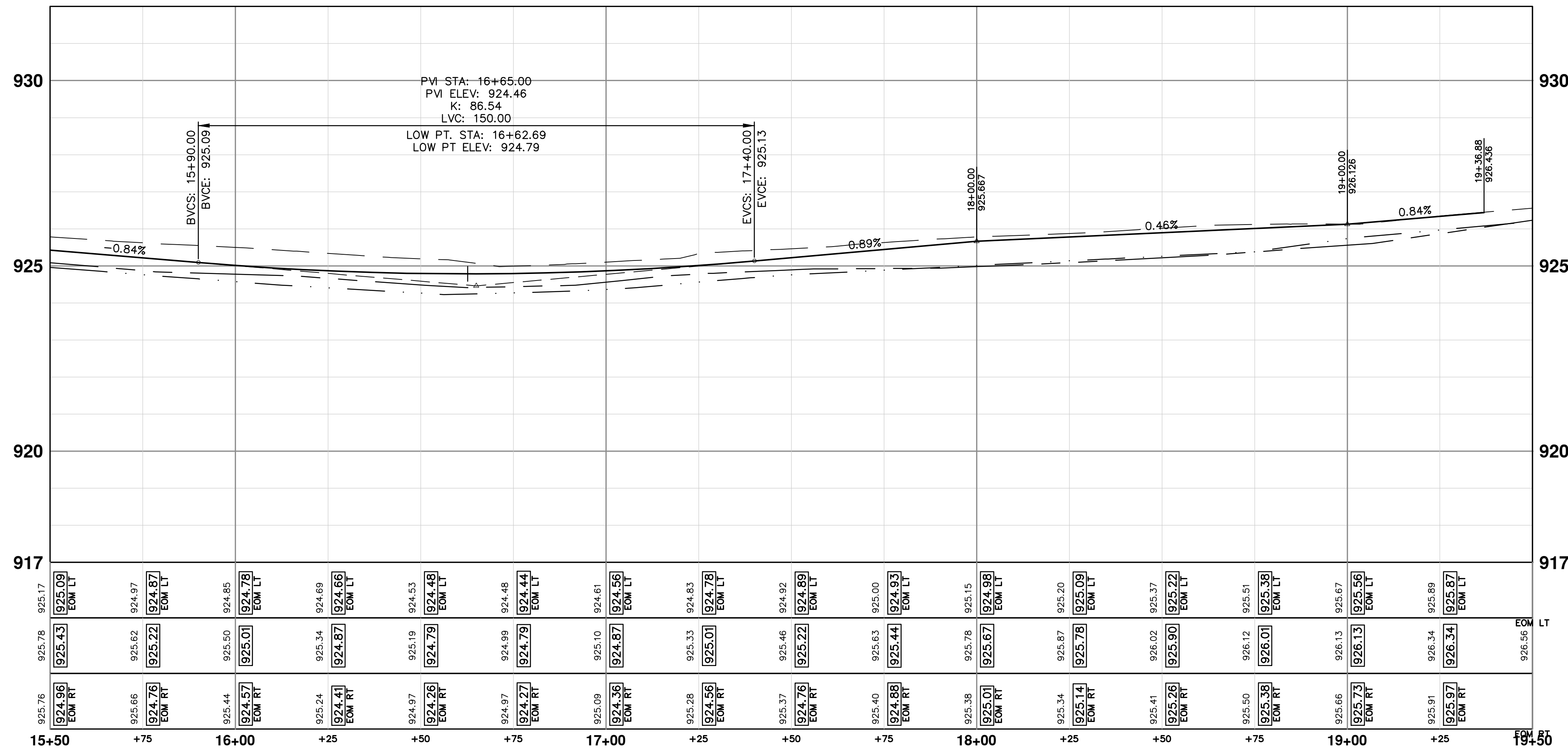


**PROPOSED TREE TABLE**

Size	Northing	Easting
2.5"	276272.8260	13287423.6886
2.5"	276246.8067	13287425.1334
2.5"	276217.3625	13287427.3474
2.5"	276186.0318	13287428.9873

**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	DRIVEWAY GRAVEL 6 INCH 21AA LIMESTONE, C.I.P.
MGD	MACHINE GRADING, DRIVEWAY
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
SW8	Conc, Sidewalk, Drive Approach, or Ramp, 8 In.
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. 15+50 - STA. 19+50

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

DRAWING No. 2020031-55

SHEET No. 55 OF 92

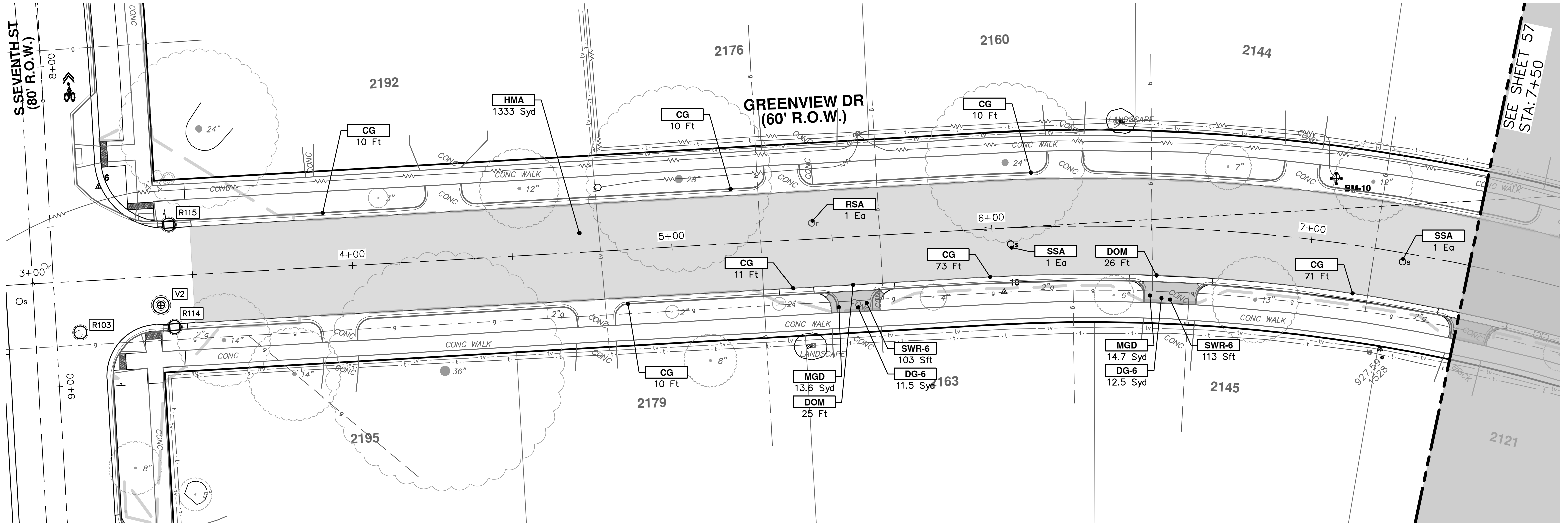
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00	1-30-24	BID SET
01		TA
02		ADZ
03		DRAWN
04		CHECKED

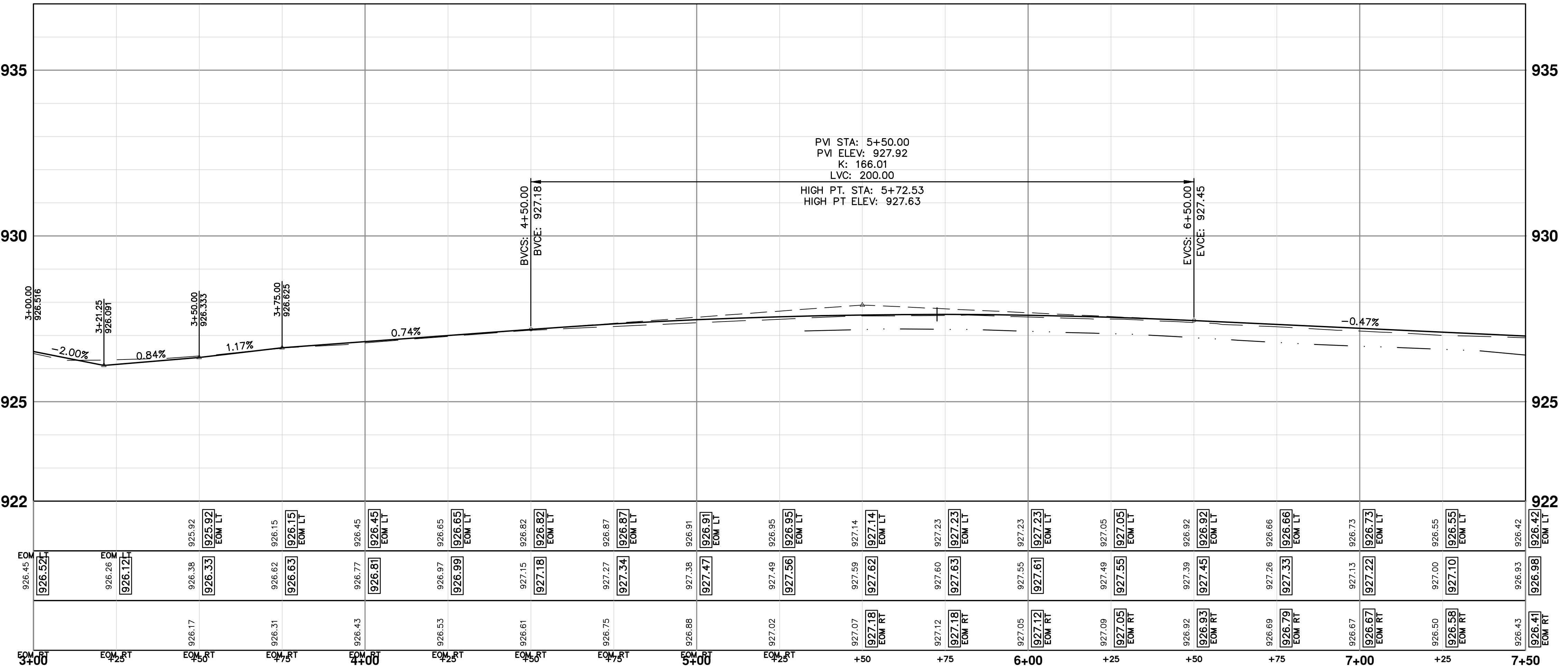
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PUBLIC SERVICES  
301 EAST HURON STREET  
ANN ARBOR, MI 48106-1667  
ANN ARBOR: 734-754-4410  
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R:\2020031 S 7th Street\Plan Production\2020031PPrd1.dwg Dwg Created: 30-Jan-24 - \_a2 standard bw.stb - Plot Date: 30-Jan-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	DRIVEWAY GRAVEL 6 INCH 21AA LIMESTONE, C.I.P.
MGD	MACHINE GRADING, DRIVEWAY
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
SW8	Conc, Sidewalk, Drive Approach, or Ramp, 8 In.
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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SCALE PLAN: 1" = 20'    PROFILE: 1" = 2'

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

ROAD PLAN & PROFILE - GREENVIEW DRIVE SOUTH

DRAWING NO. 2020031-56

SHEET NO. 56 OF 92

STA. 3+00 - STA. 7+50

DATE: 1-30-24

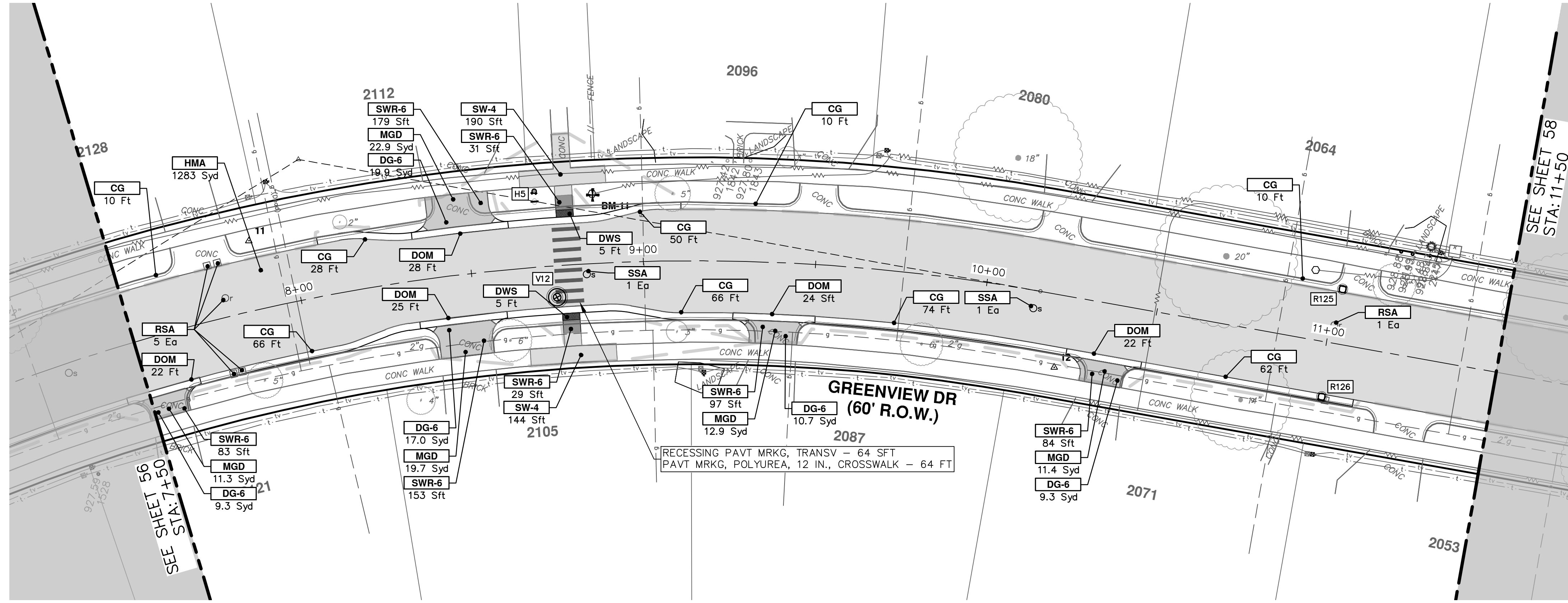
DRAWN: TA

CHECKED: TA

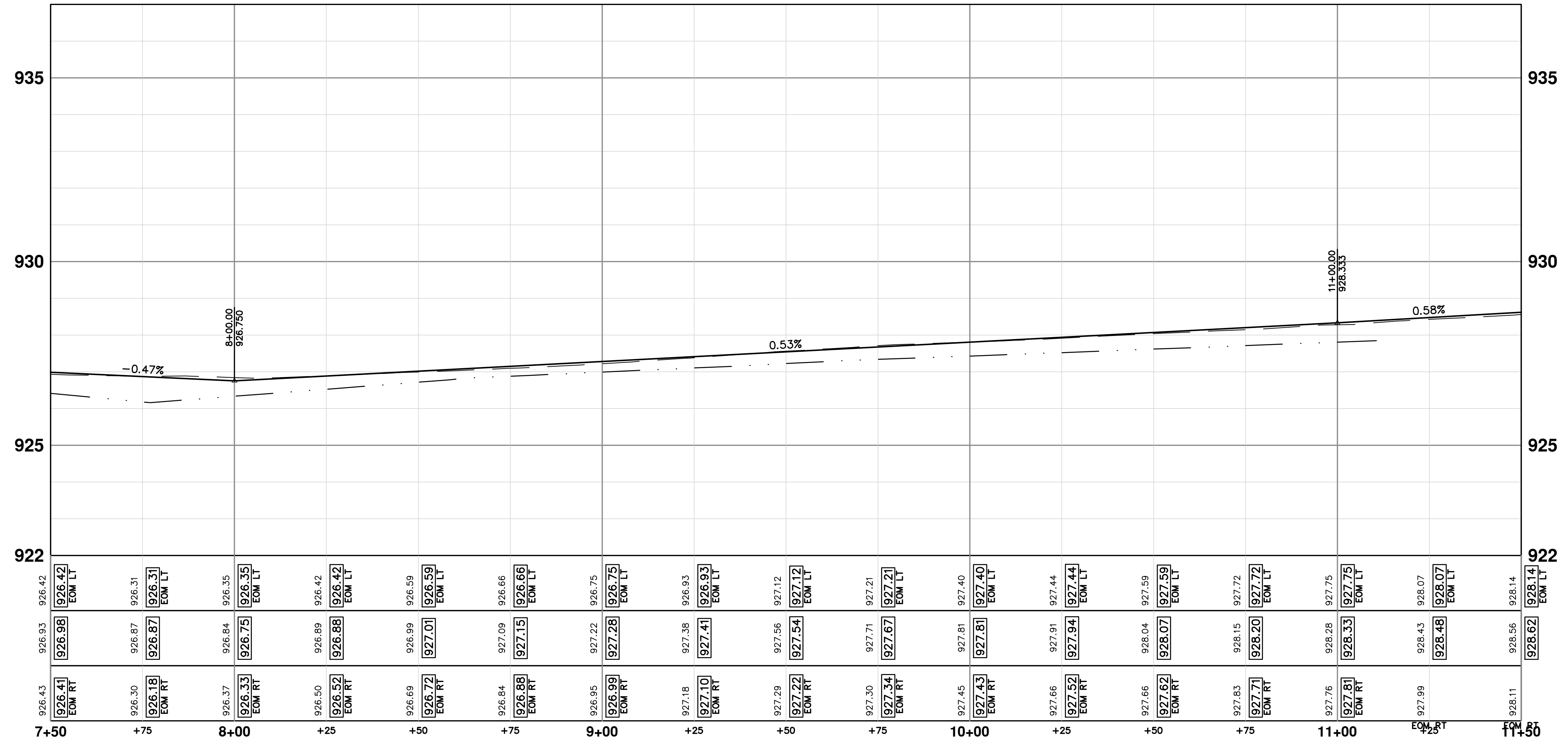
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SEE SHEET 58  
STA: 11+50



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
DG-6	DRIVEWAY GRAVEL 6 INCH 21AA LIMESTONE, C.I.P.
MGD	MACHINE GRADING, DRIVEWAY
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
SW8	Conc, Sidewalk, Drive Approach, or Ramp, 8 In.
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: 1-30-24  
DRAWN: TA  
CHECKED: TA

REV. DESCRIPTION

DO: BID SET  
REV.:

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MICHIGAN

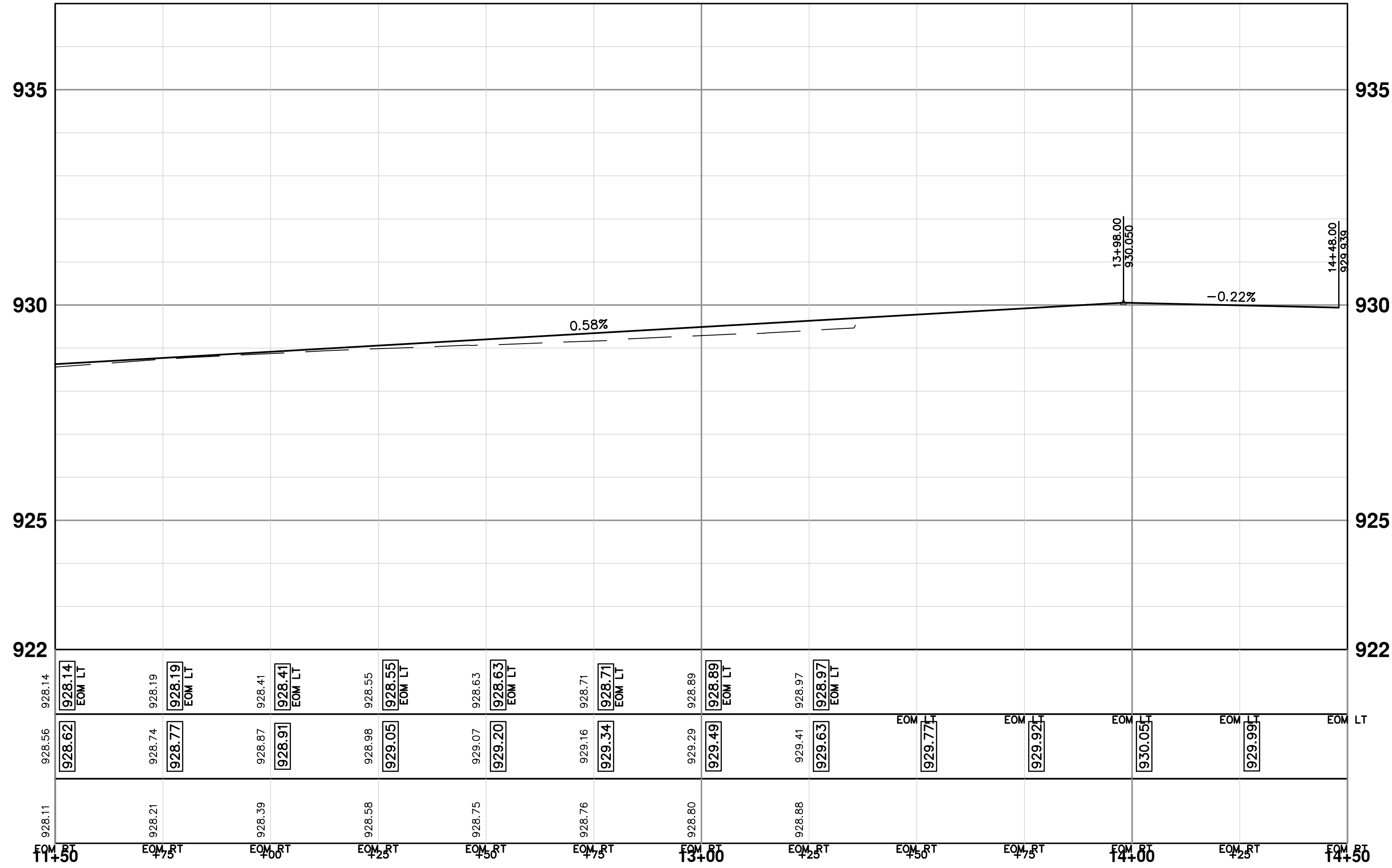
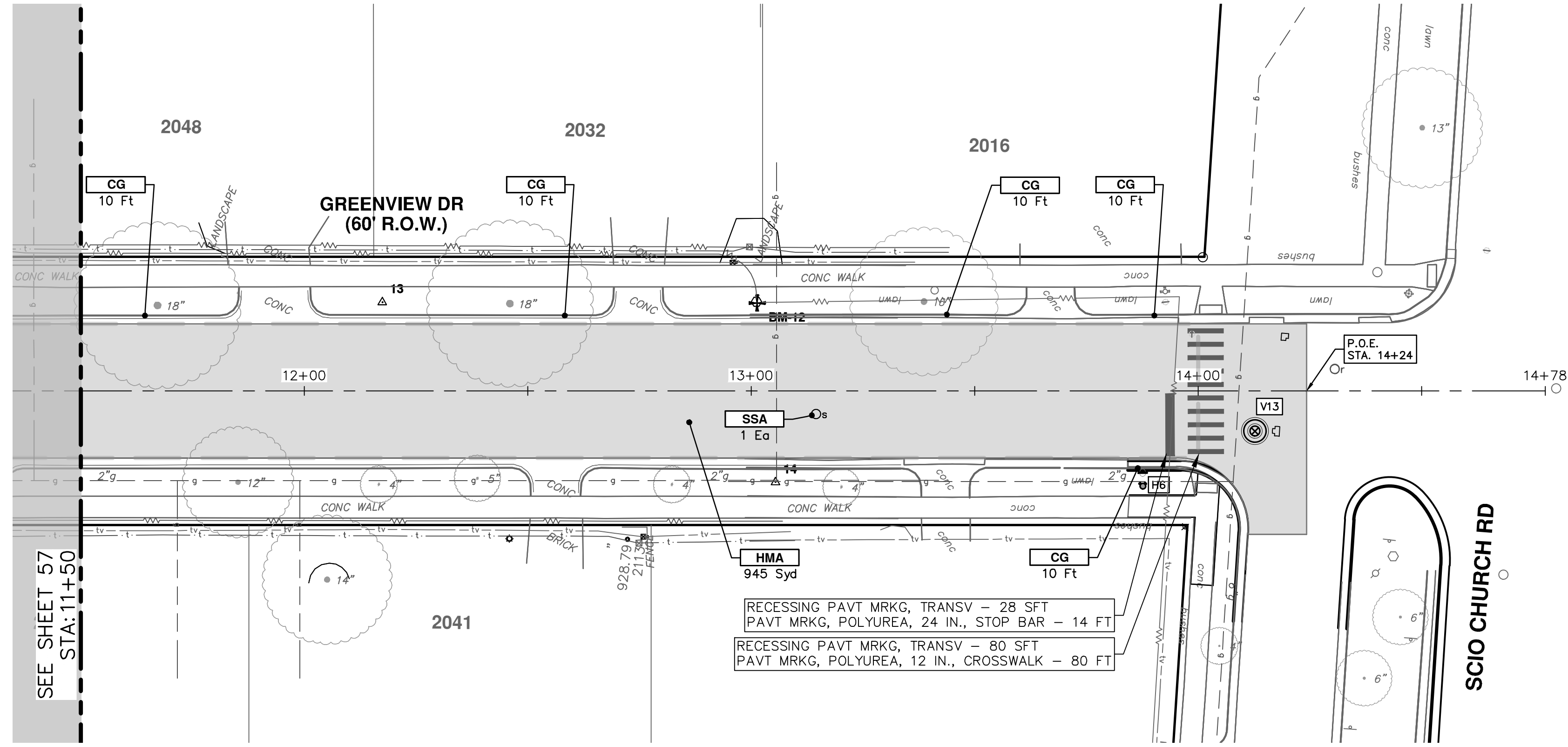
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S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS  
ROAD PLAN & PROFILE - GREENVIEW DRIVE SOUTH

STA. 7+50 - STA. 11+50

SHEET No. 57 OF 92

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	DRIVEWAY GRAVEL 6 INCH 21AA LIMESTONE, C.I.P.
MGD	MACHINE GRADING, DRIVEWAY
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
SW8	Conc. Sidewalk, Drive Approach, or Ramp, 8 In.
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



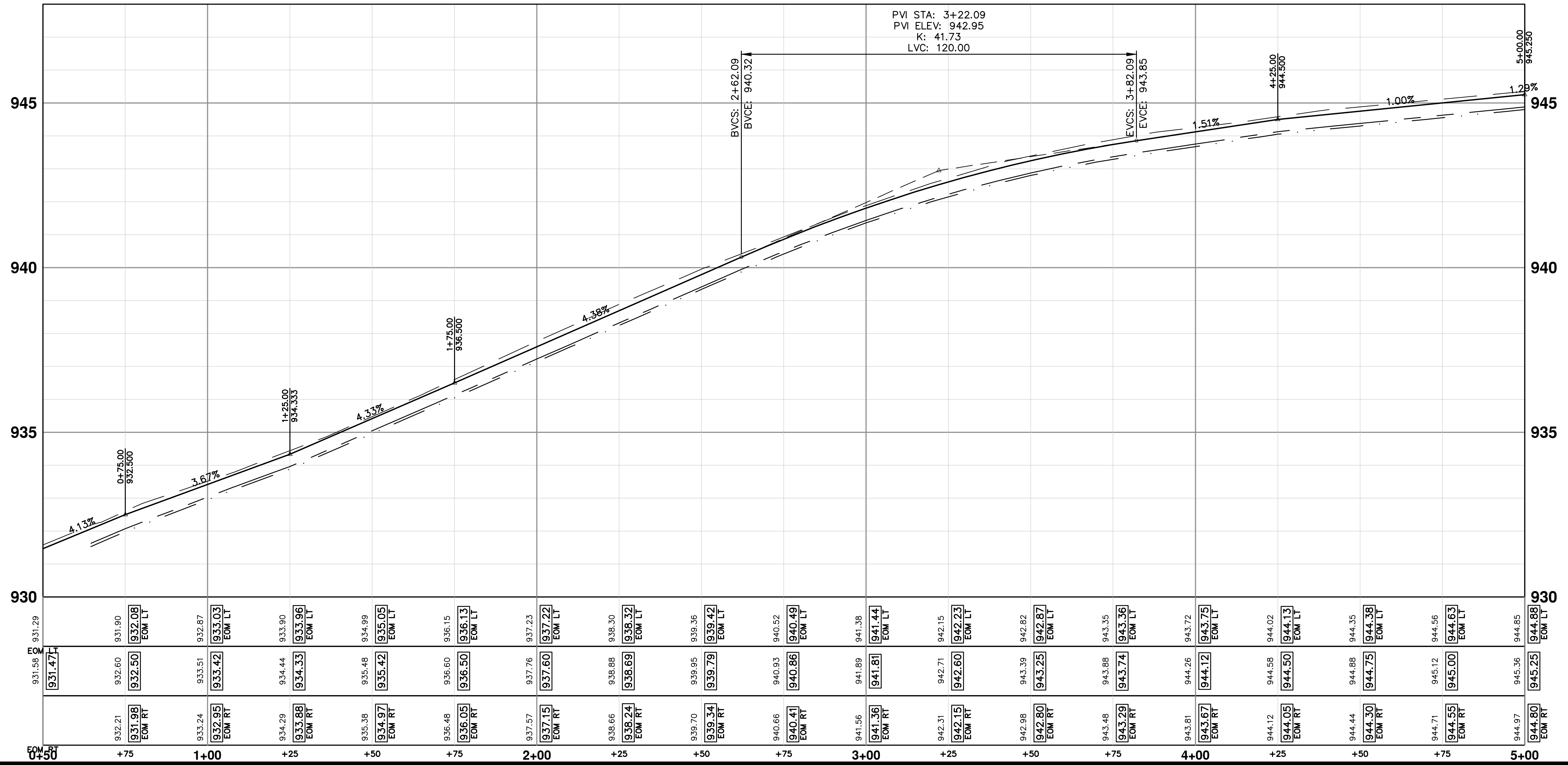
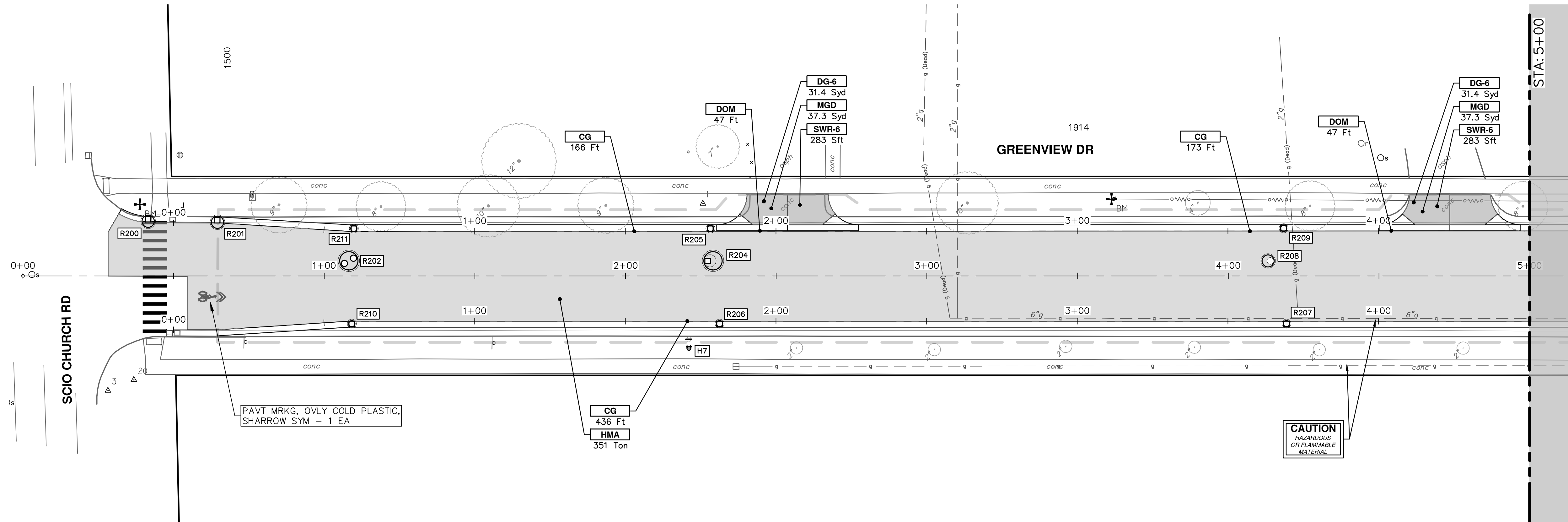
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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING  
S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS  
ROAD PLAN & PROFILE - GREENVIEW DRIVE SOUTH  
STA. 11+50 - STA. 14+24

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





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	DRIVEWAY GRAVEL 6 INCH 21AA LIMESTONE, C.I.P.
MGD	MACHINE GRADING, DRIVEWAY
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
SW8	Conc, Sidewalk, Drive Approach, or Ramp, 8 In.
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. 0+00 - STA. 5+00

SHEET No. 58 OF 92

DRAWING No. 2020031-59

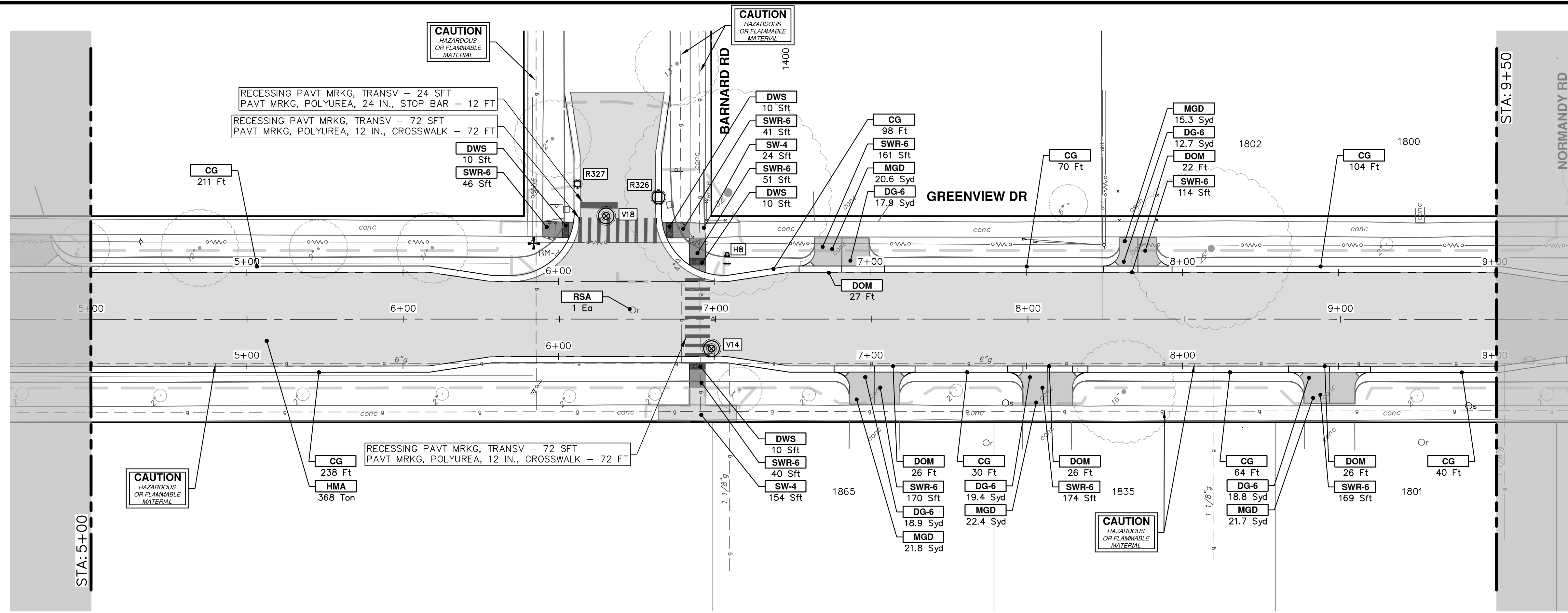
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01		ADZ
02		DRAWN
03		TA
04		CHECKED

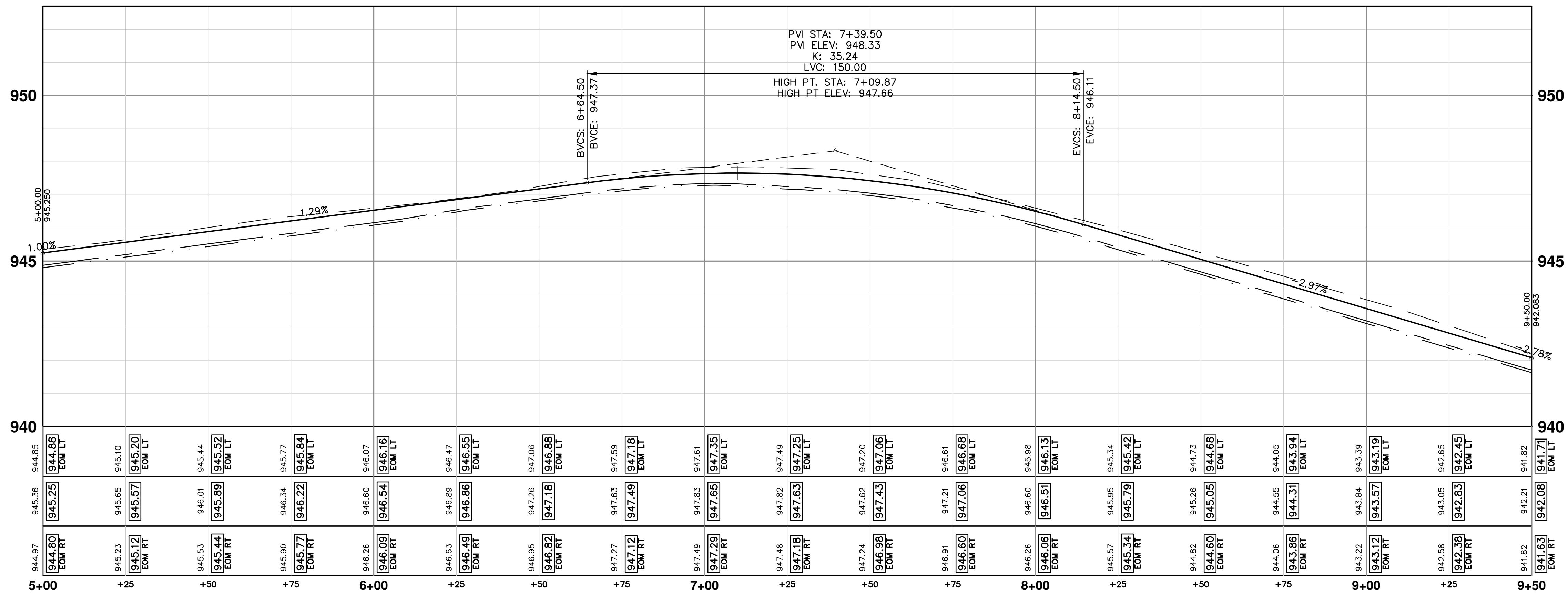
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CONSTRUCTION KEY	
KEY	DESCRIPTION
HMA	PLACE HMA, PLACE MATERIAL IN LIFTS ACCORDING TO THE TYPICAL SECTION AND AS DIRECTED BY THE ENGINEER.
HMA APP	HMA Approach
HP	Hand Patching
CG	Conc, Curb or Curb & Gutter, All Types
DOM	Conc, Driveway Opening, Type M
DOM-HE	Conc, Driveway Opening, Type M, High Early
DG-6	DRIVEWAY GRAVEL 6 INCH 21AA LIMESTONE, C.I.P.
MGD	MACHINE GRADING, DRIVEWAY
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
SW8	Conc, Sidewalk, Drive Approach, or Ramp, 8 In.
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 NORTH

STA. 5+00 - STA. 9+50

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

DRAWING NO. 2020031-60

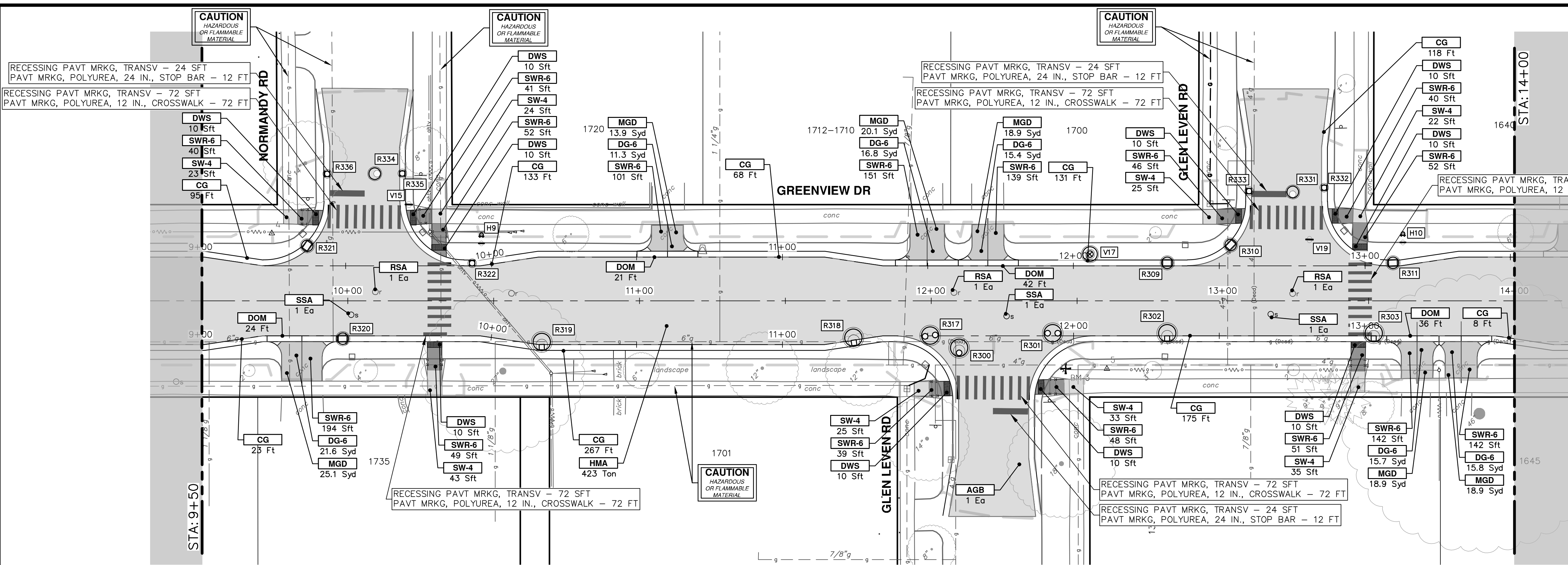
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SHEET NO. 60 OF 92

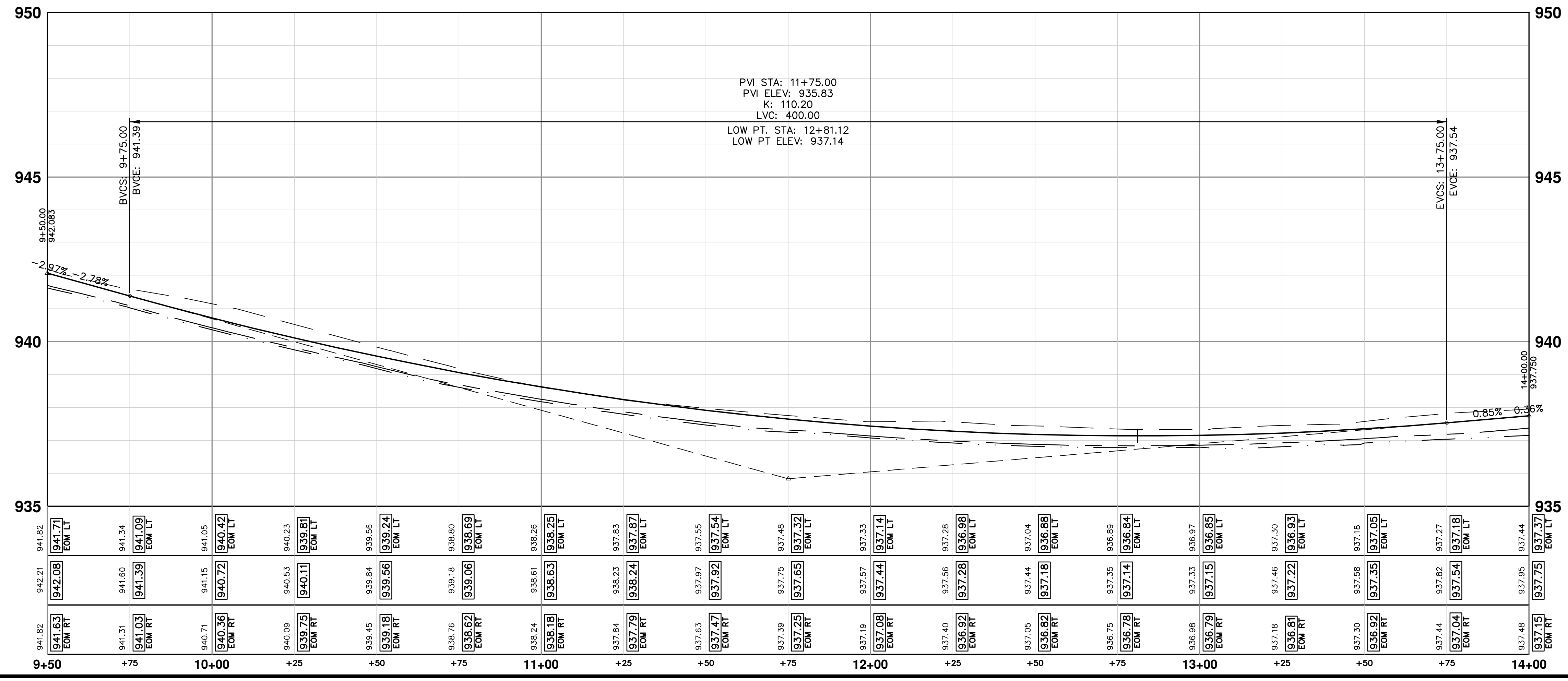
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CONSTRUCTION KEY	
KEY	DESCRIPTION
HMA	PLACE HMA, PLACE MATERIAL IN LIFTS ACCORDING TO THE TYPICAL SECTION AND AS DIRECTED BY THE ENGINEER.
HMA APP	HMA Approach
HP	Hand Patching
CG	Conc. Curb or Curb & Gutter, All Types
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ABO	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

PROFILE: 1" = 2'

SCALE PLAN: 1" = 20'

DRAWING NO. 2020031-61

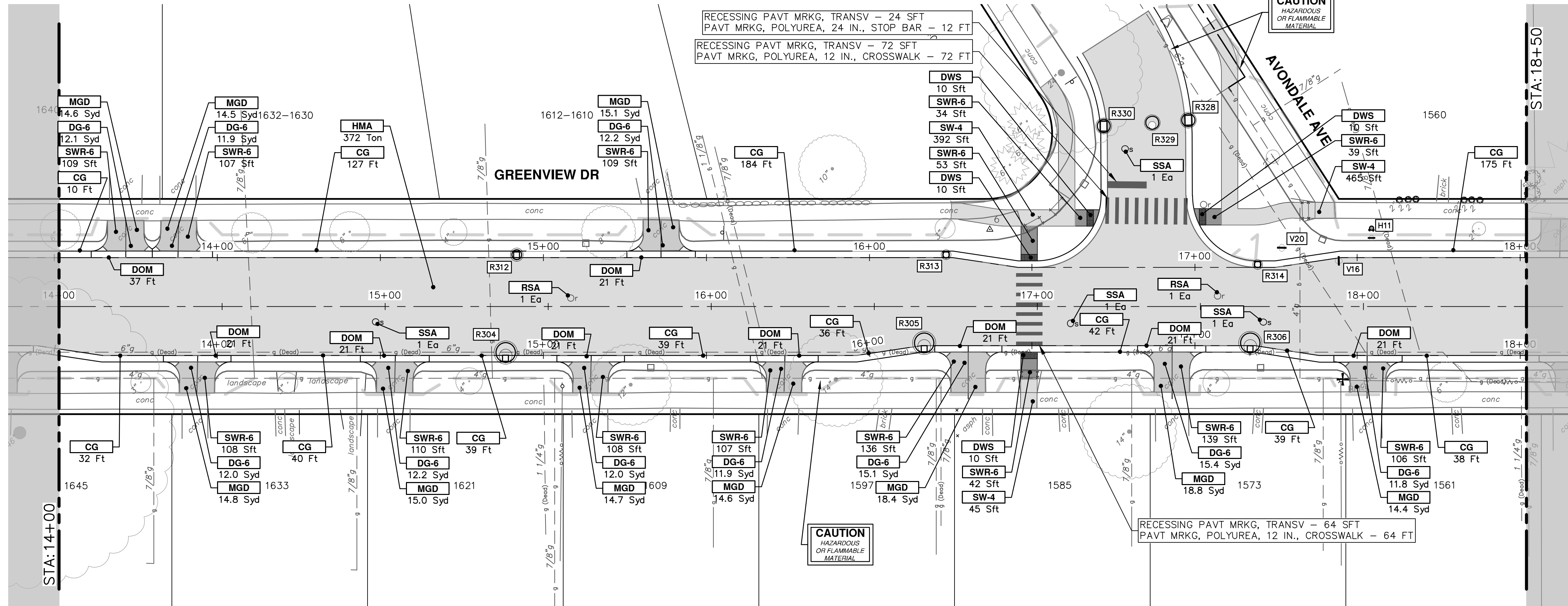
STA. 9+50 - STA. 14+00

61 OF 92

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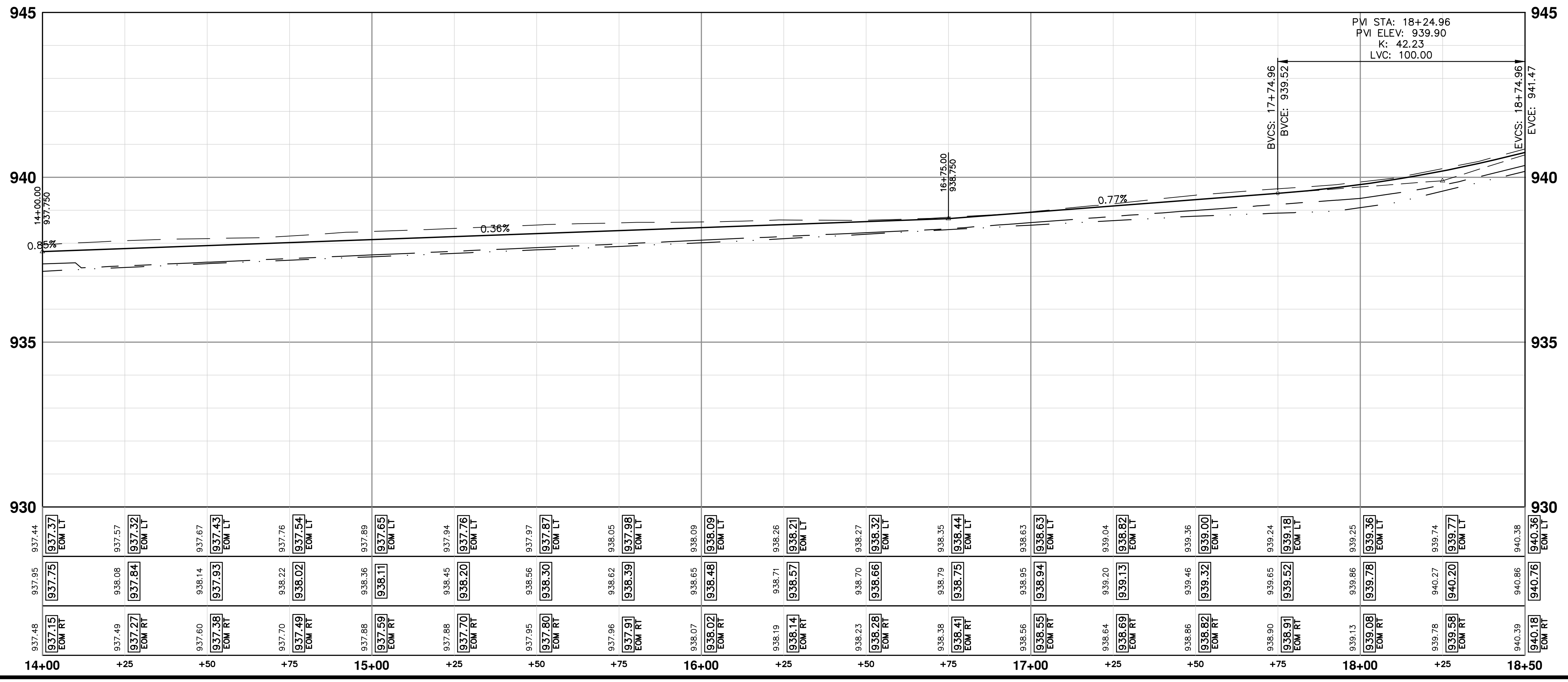
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1	1-30-24	DATE	CHECKED
2	1-30-24	DATE	DRAWN
3	1-30-24	DATE	TA





### 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
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SW8	Conc, Sidewalk, Drive Approach, or Ramp, 8 In.
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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 ROAD PLAN & PROFILE - GREENVIEW DRIVE NORTH  
 STA. 14+00 - STA. 18+50

DESCRIPTION  
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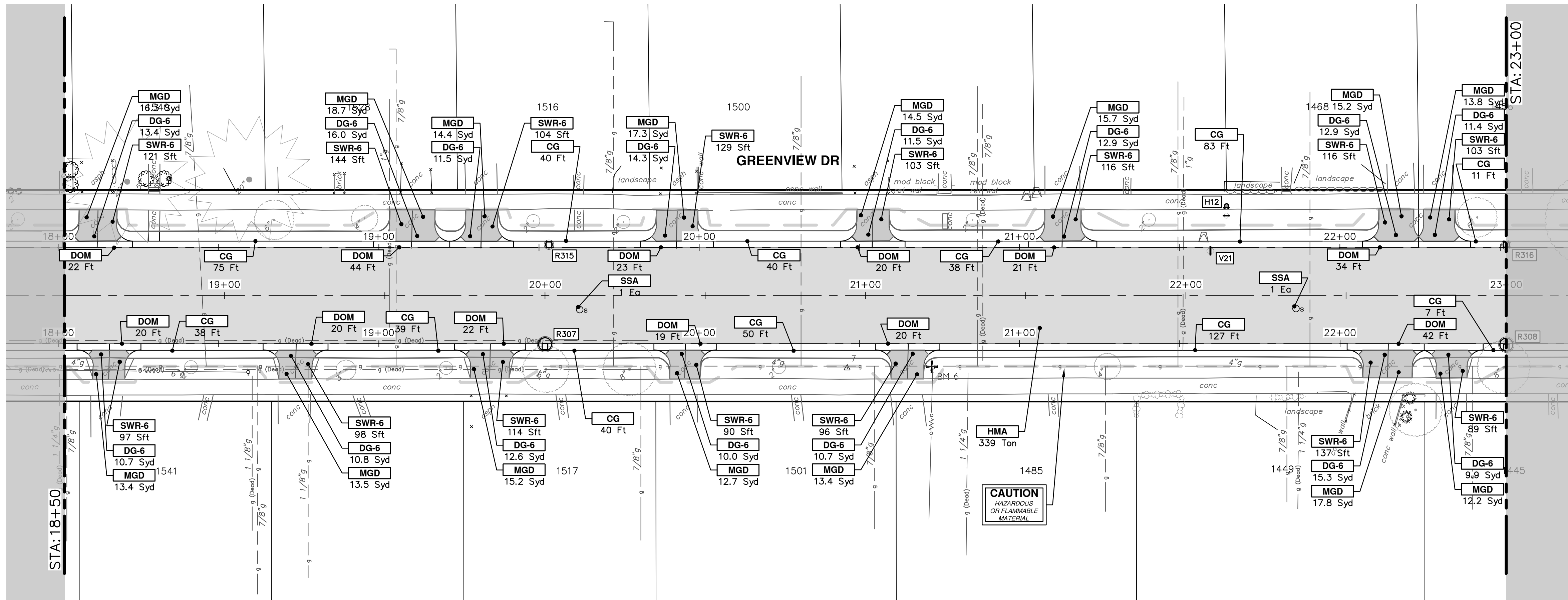
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 ANN ARBOR: 734-754-4410  
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SCALE PLAN: 1" = 20'  
 PROFILE: 1" = 2'  
 DRAWING NO.  
 2020031-62

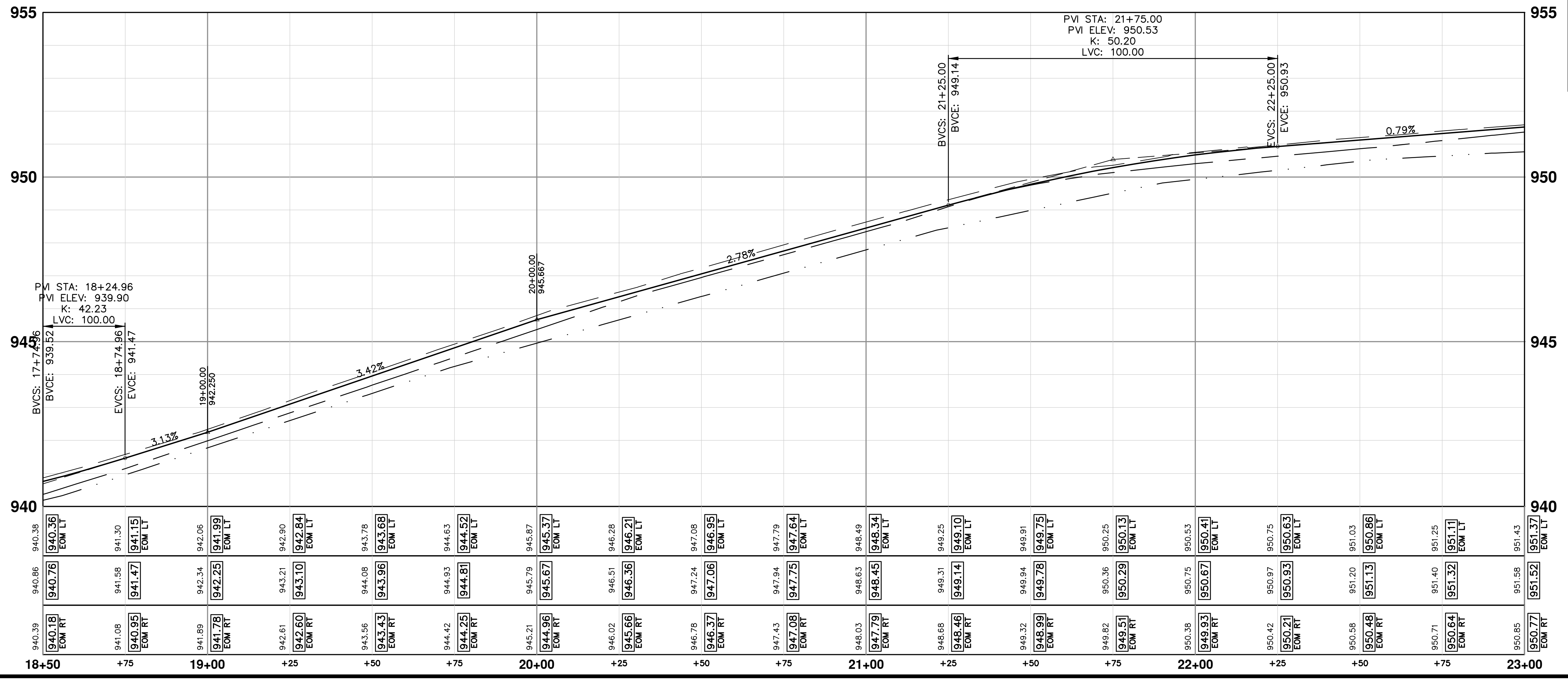
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62 OF 92





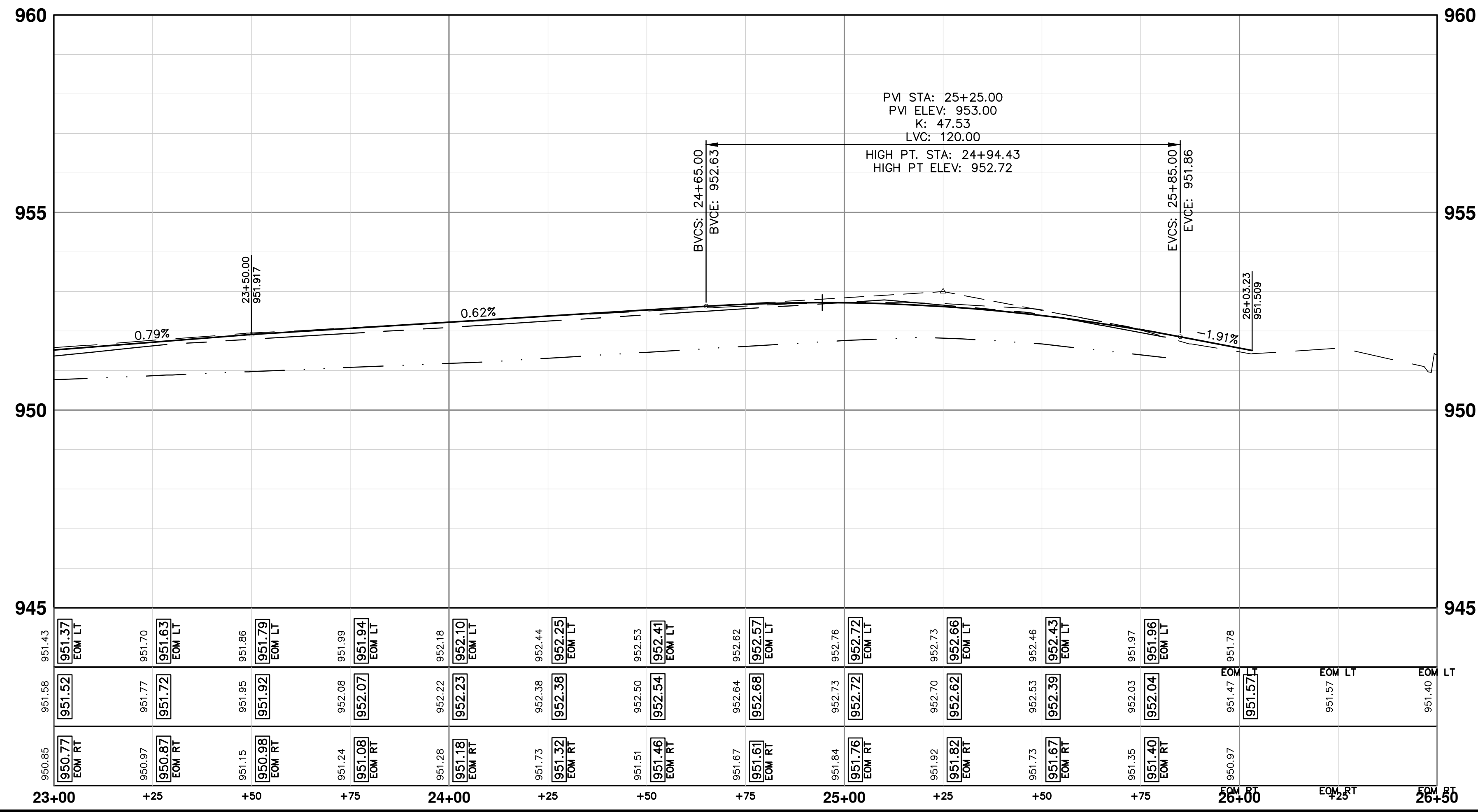
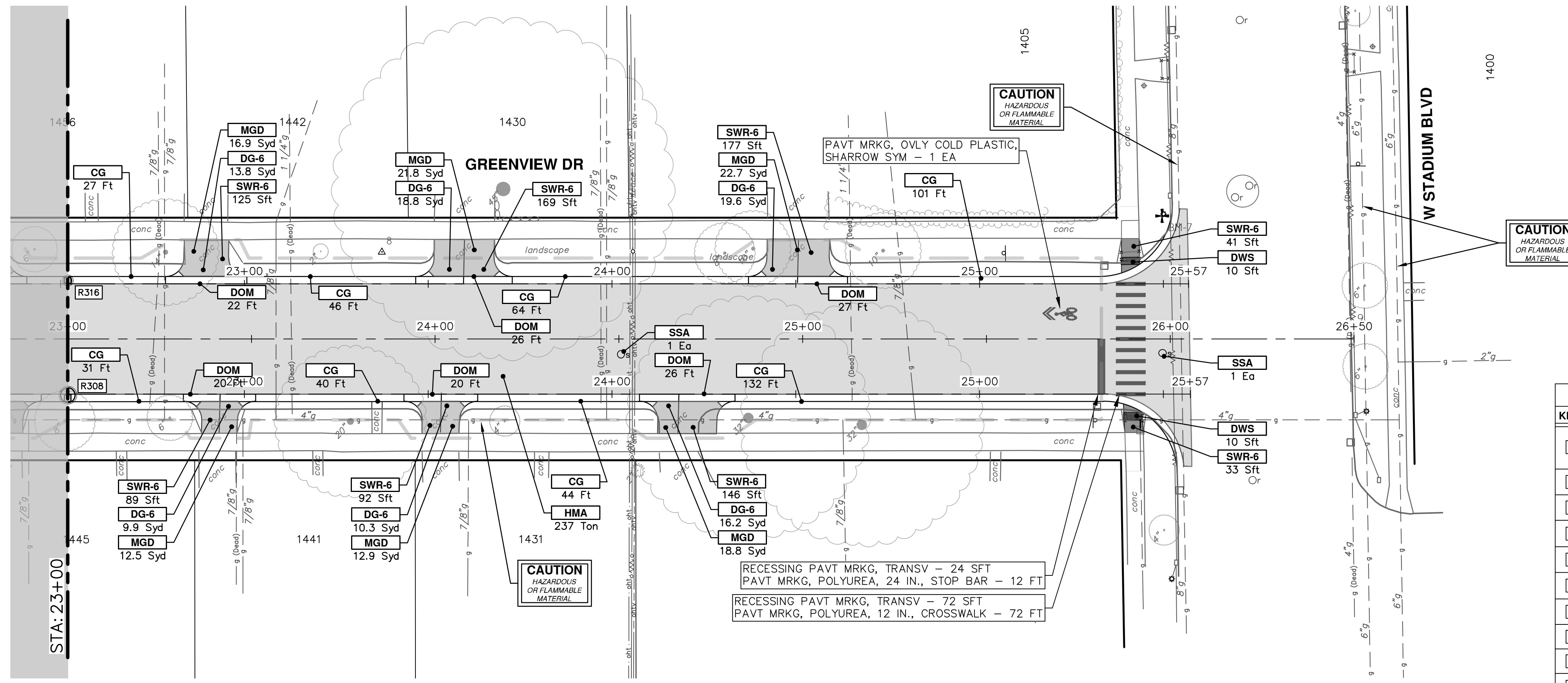
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KEY	DESCRIPTION
HMA	PLACE HMA, PLACE MATERIAL IN LIFTS ACCORDING TO THE TYPICAL SECTION AND AS DIRECTED BY THE ENGINEER.
HMA APP	HMA Approach
HP	Hand Patching
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ABO	ADJUST BY OTHERS
AMB	Monument Box, Adjust
AGB	Gate Box, Adjust
RSA	Storm Structure Cover, Adjust
SSA	Sanitary Structure Cover, Adjust
WSA	Water Structure Cover, Adjust



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1-30-24	DATE	AZD	DRAWN	
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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.
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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. 23+00 - STA. 26+50

DESCRIPTION

REV. DO BID SET

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

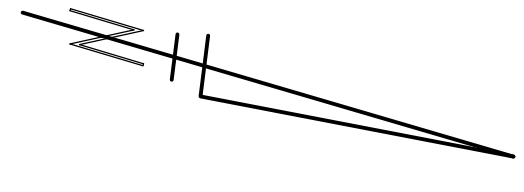
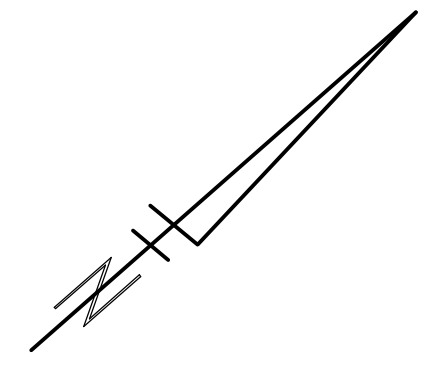
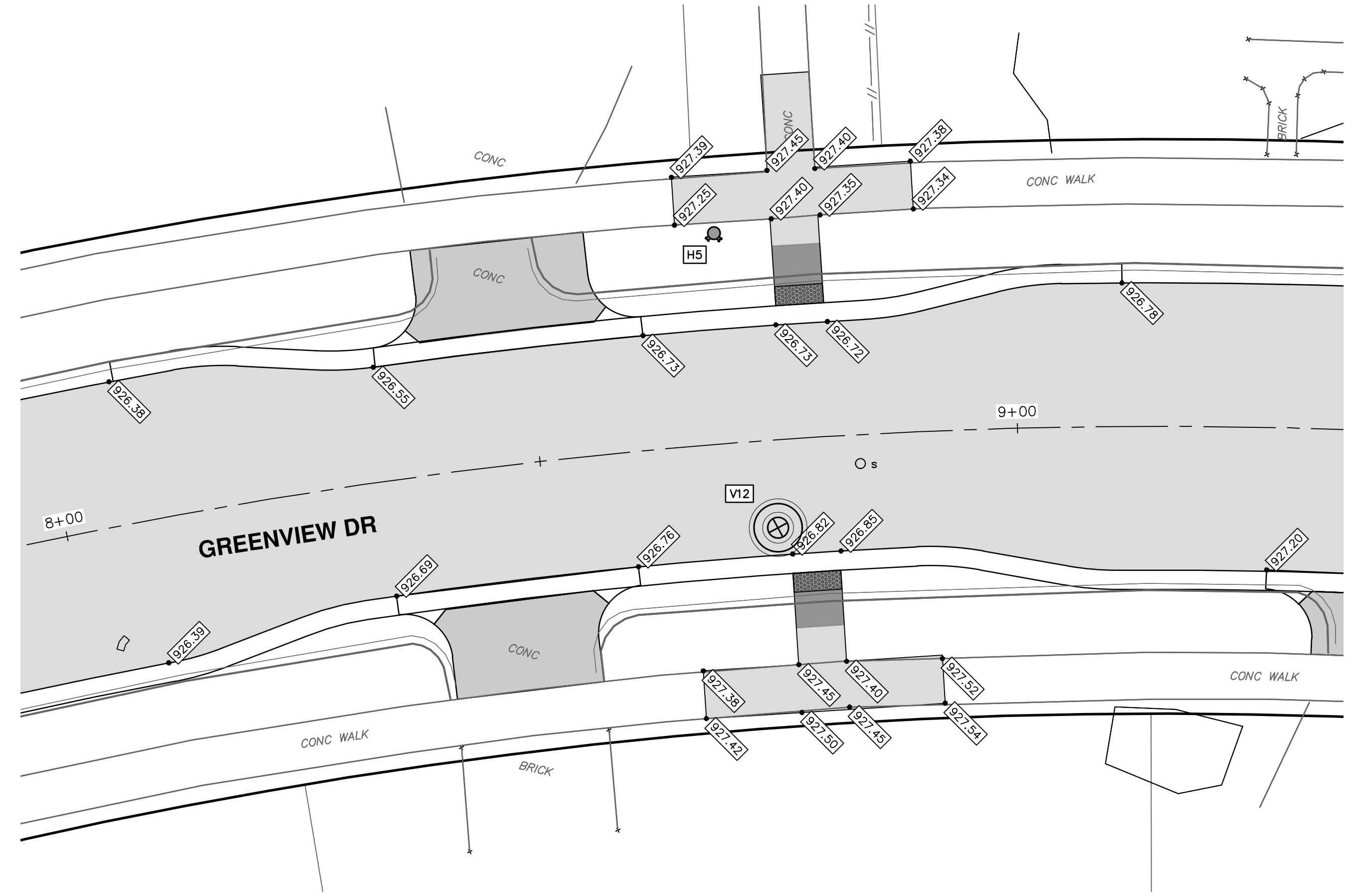
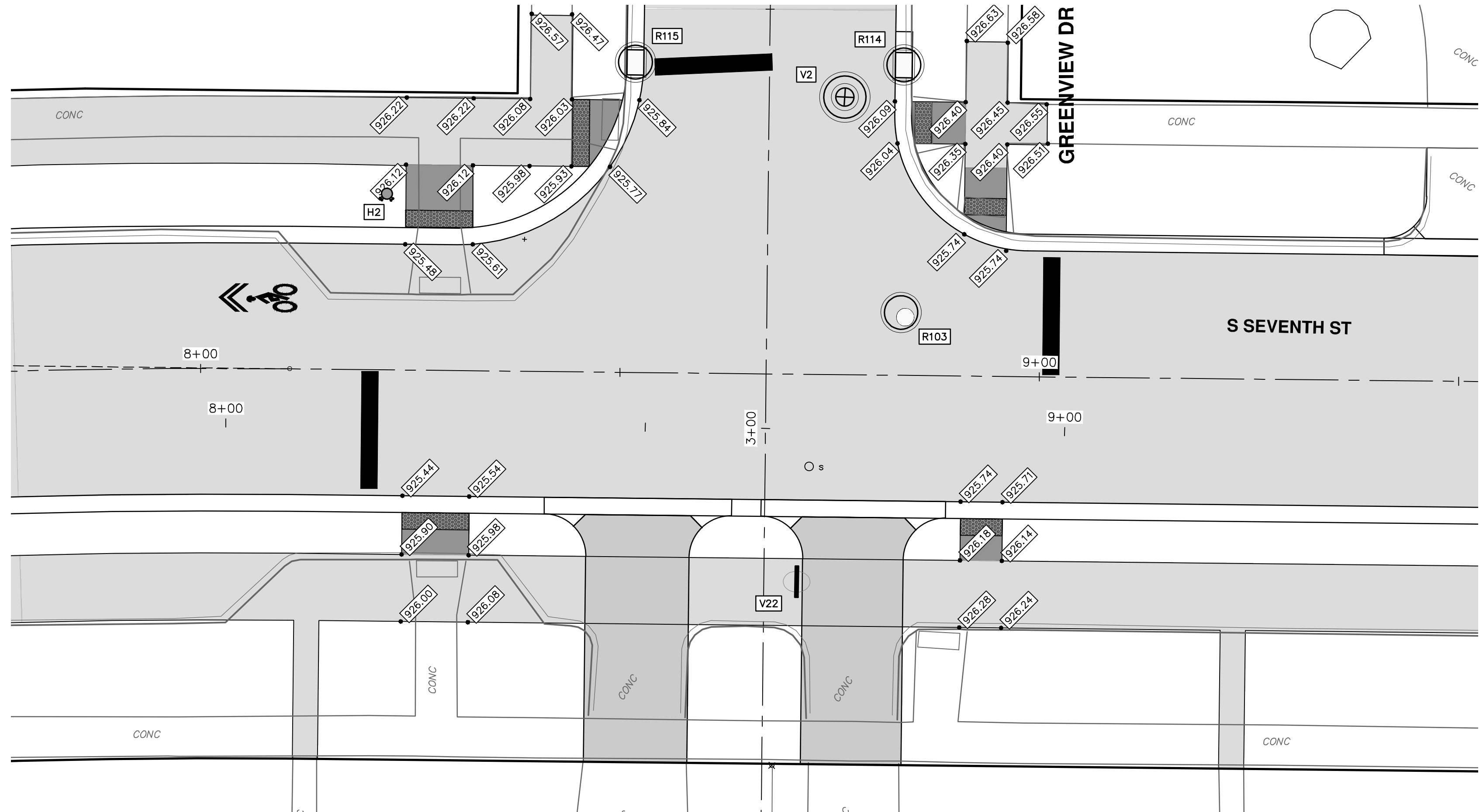
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SHEET NO. 64 OF 92

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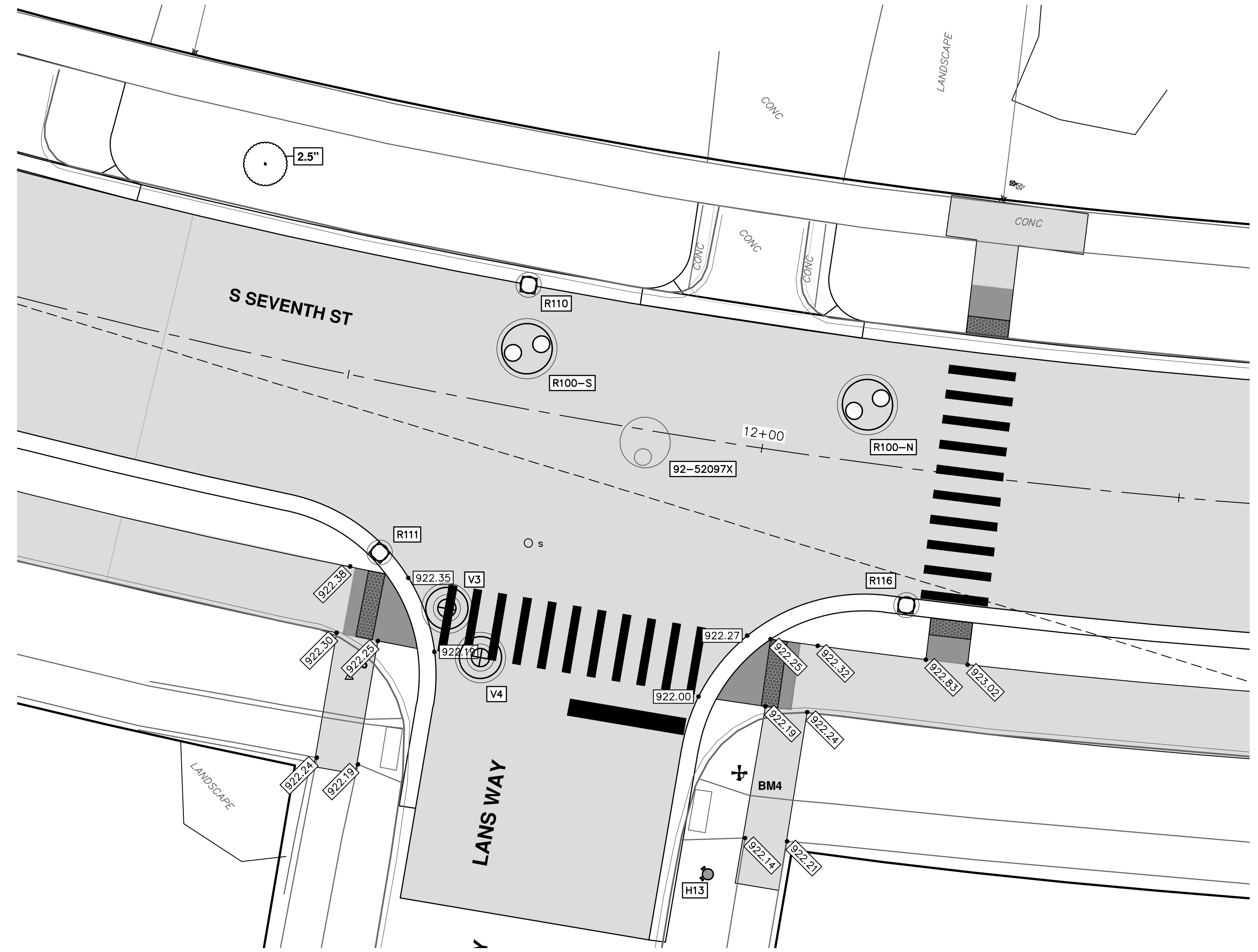
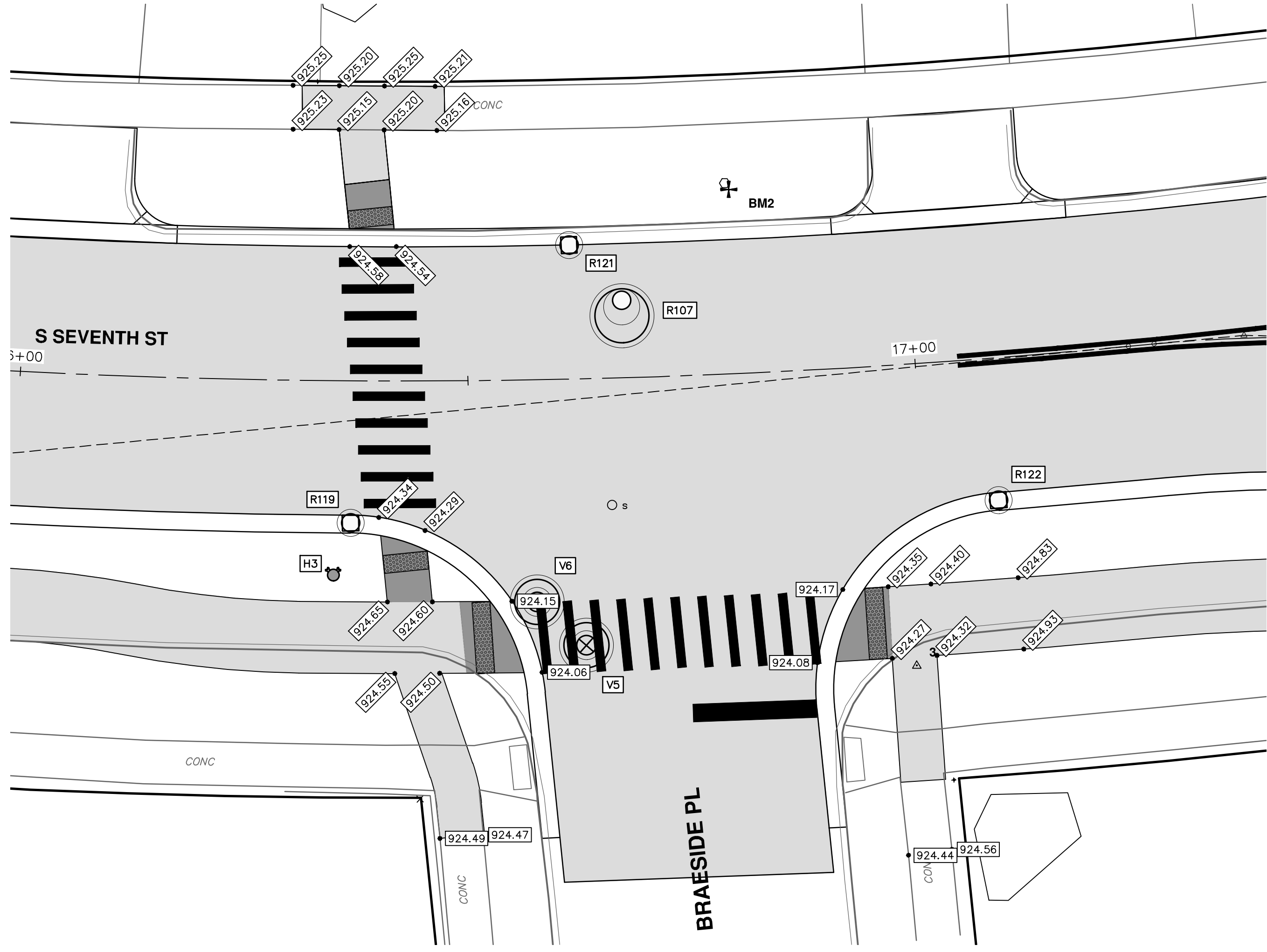




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SCALE PLAN: 1" = 10' DRAWING No. 2020031-65	REV. 00 BID SET DATE 1-30-24 DESCRIPTION TA CHECKED DRAWN A2D



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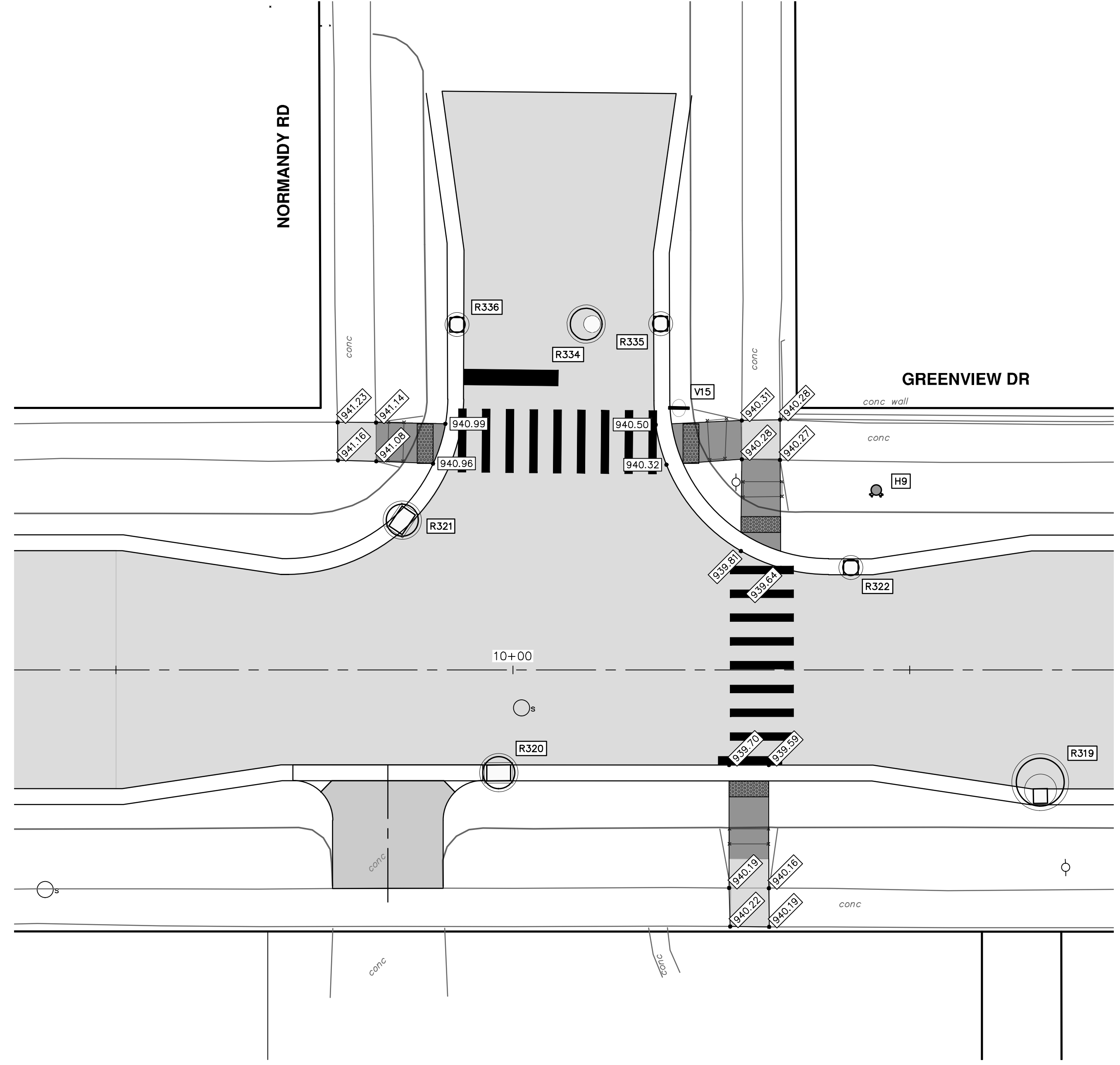
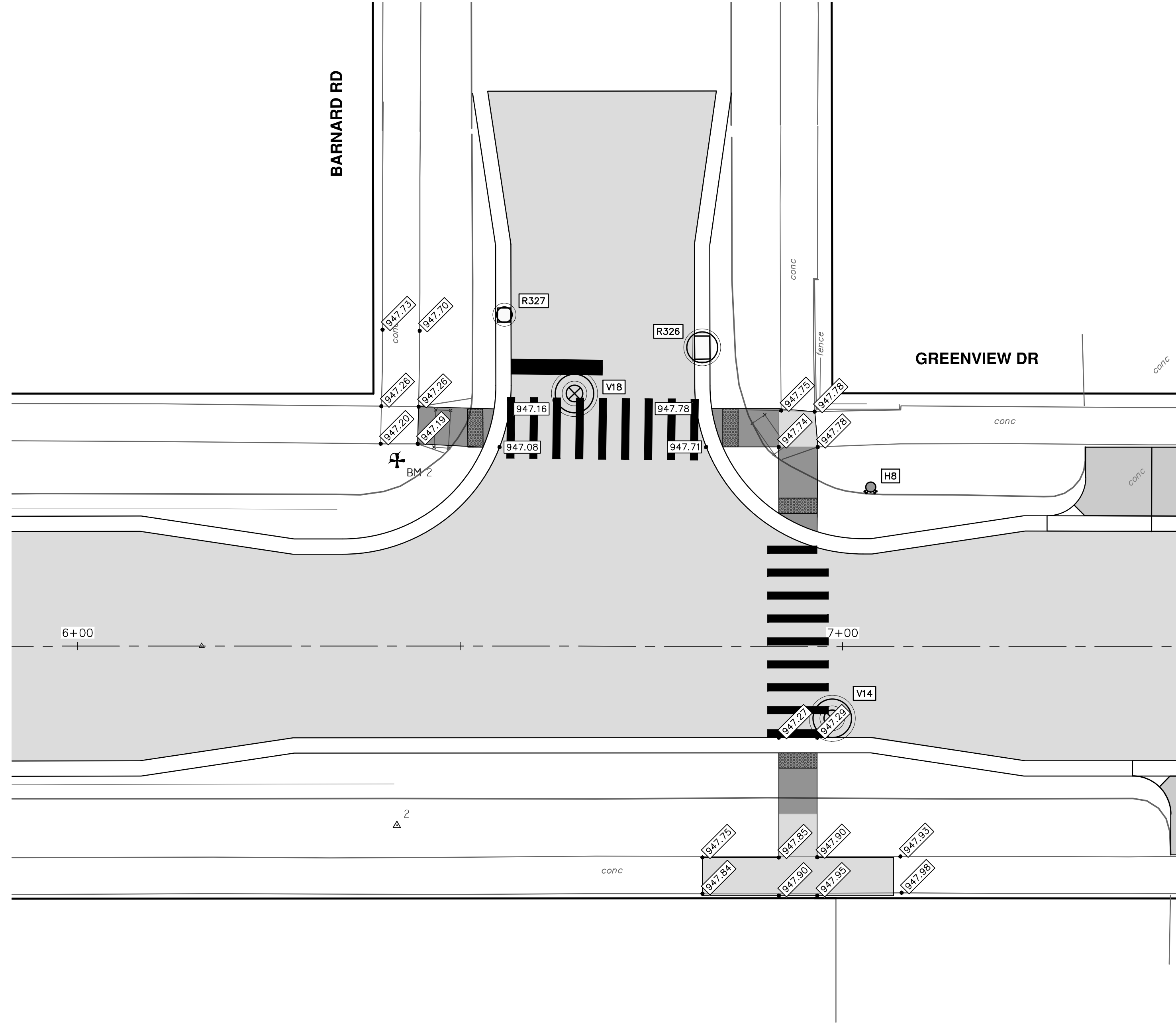
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**S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS**  
INTERSECTION GRADES - S SEVENTH ST & GREENVIEW DR SOUTH  
S SEVENTH & BRAESIDE PL, GREENVIEW MID BLOCK

SCALE PLAN: 1" = 10'  
DRAWING No. 2020031-66  
SHEET No. 66 OF 92



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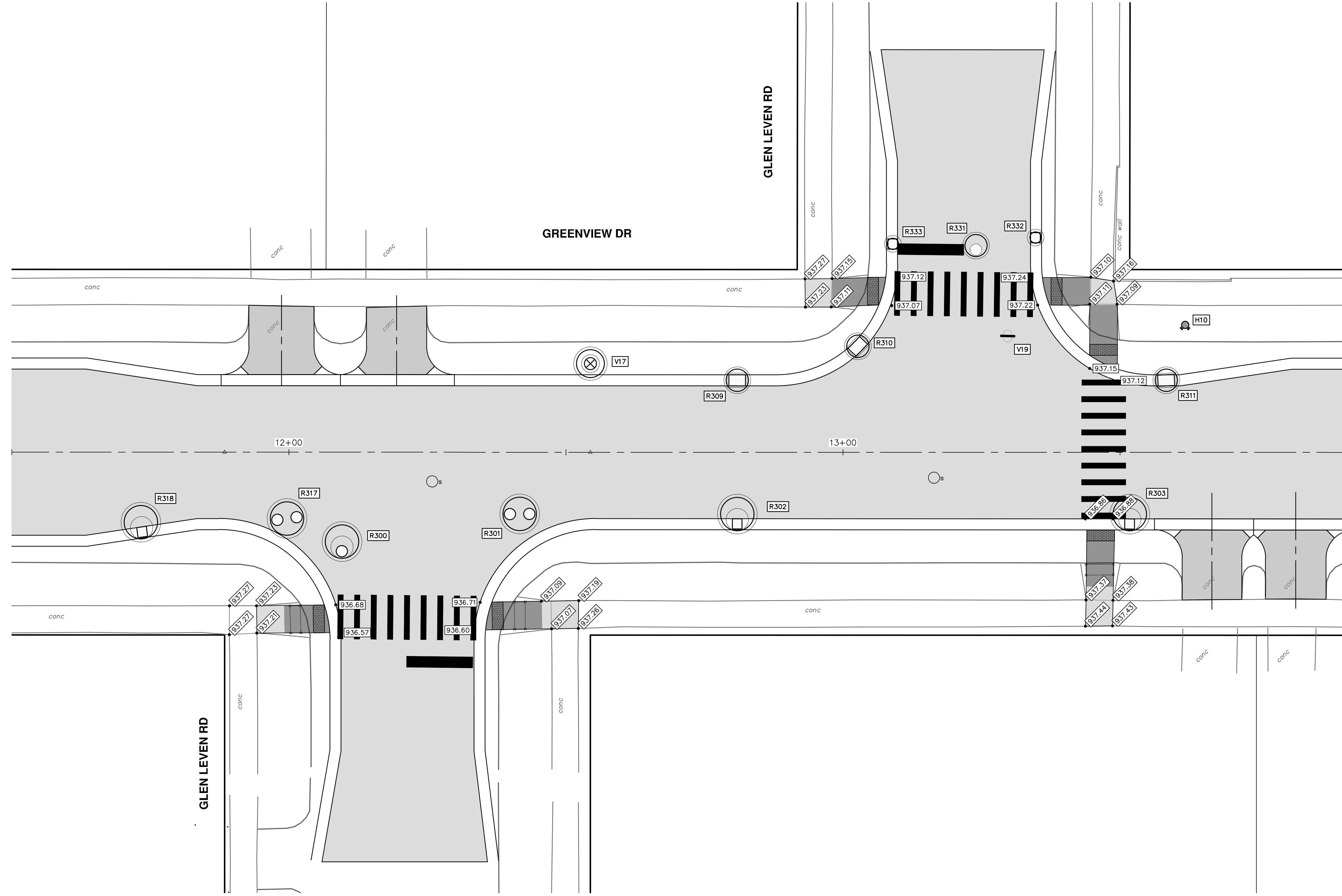
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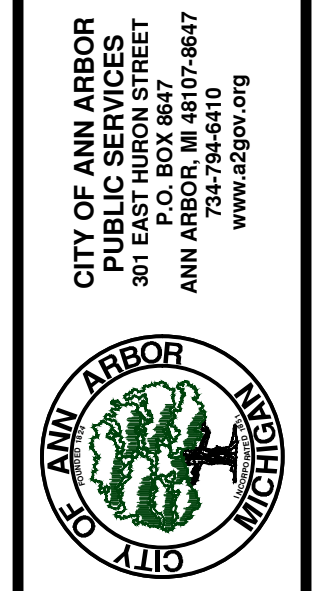


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**S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS**  
 INTERSECTION GRADES - GREENVIEW DRIVE NORTH  
 GLEN LEVEN RD

SCALE PLAN: 1" = 10'  
 DRAWING No. 2020031-68

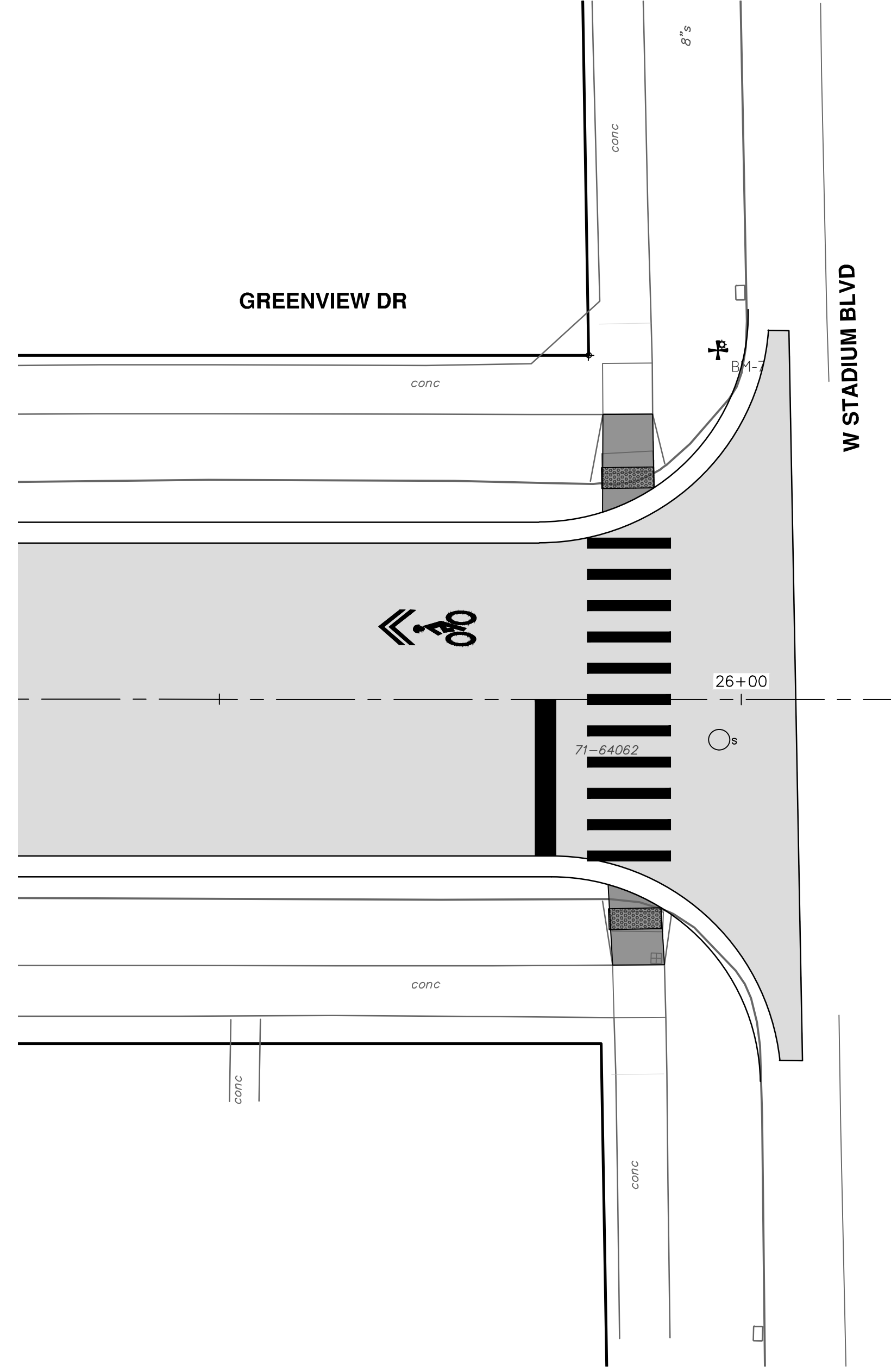
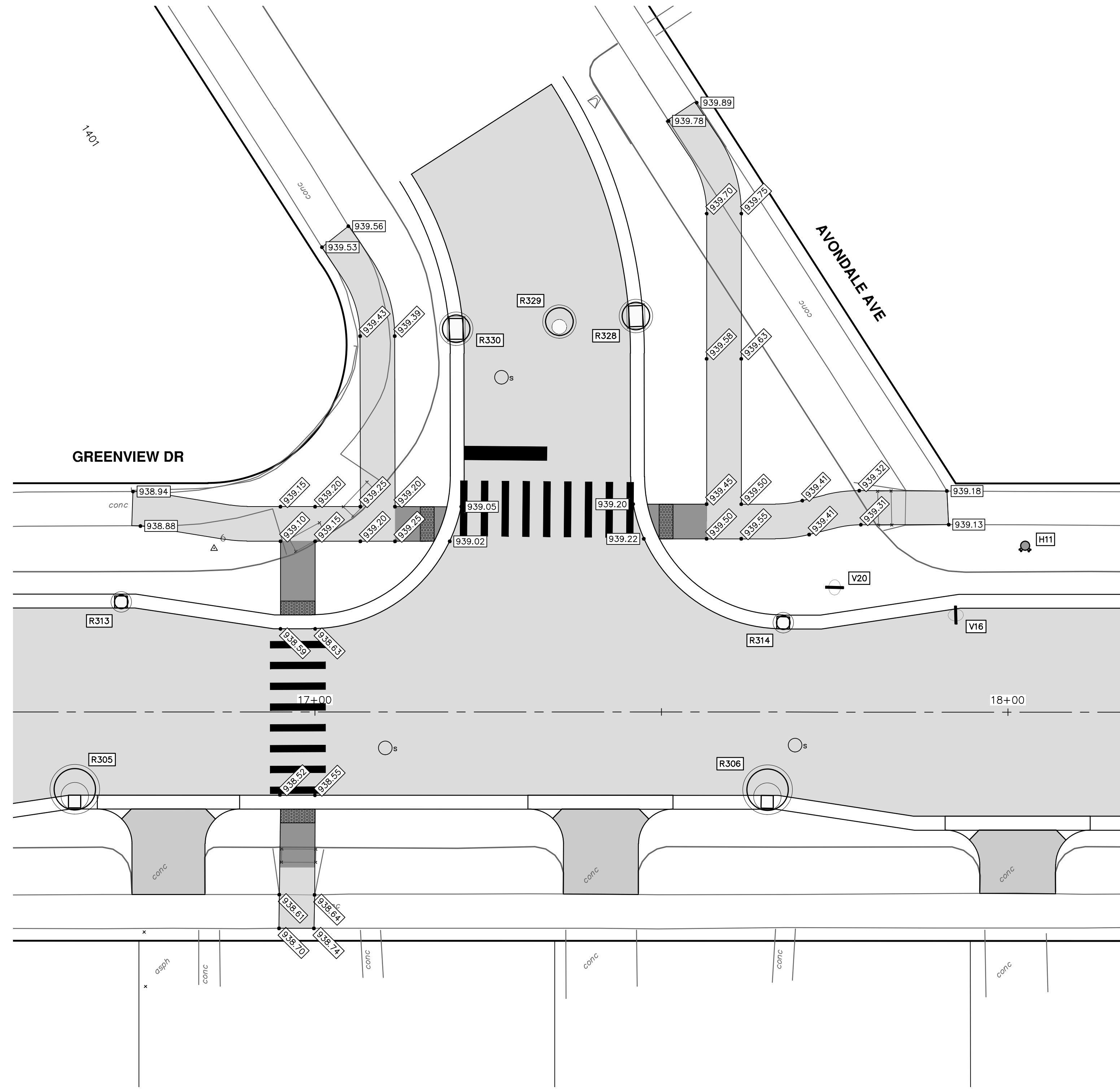


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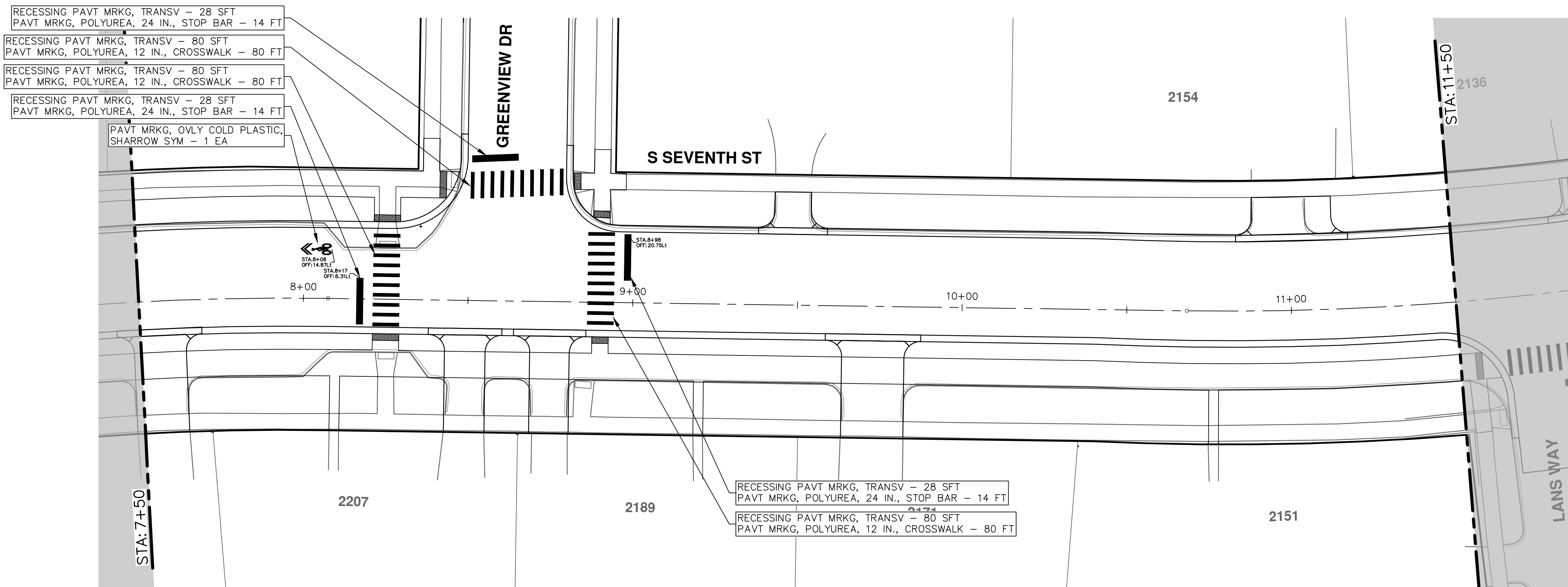
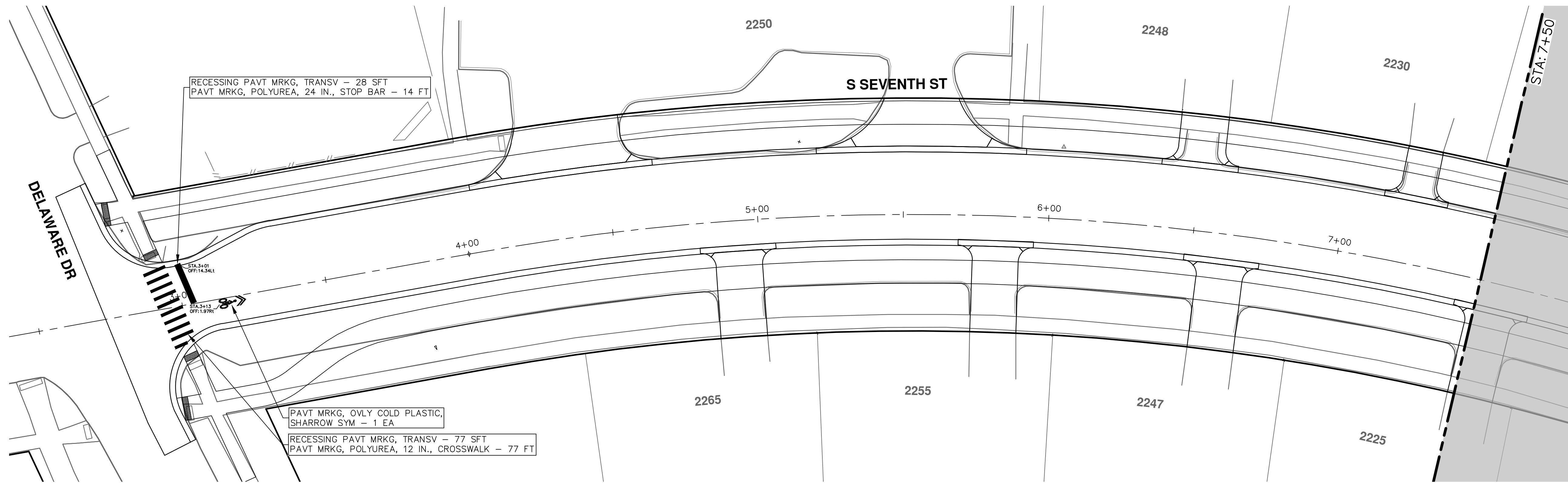
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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	1-30-24	AZD	TA





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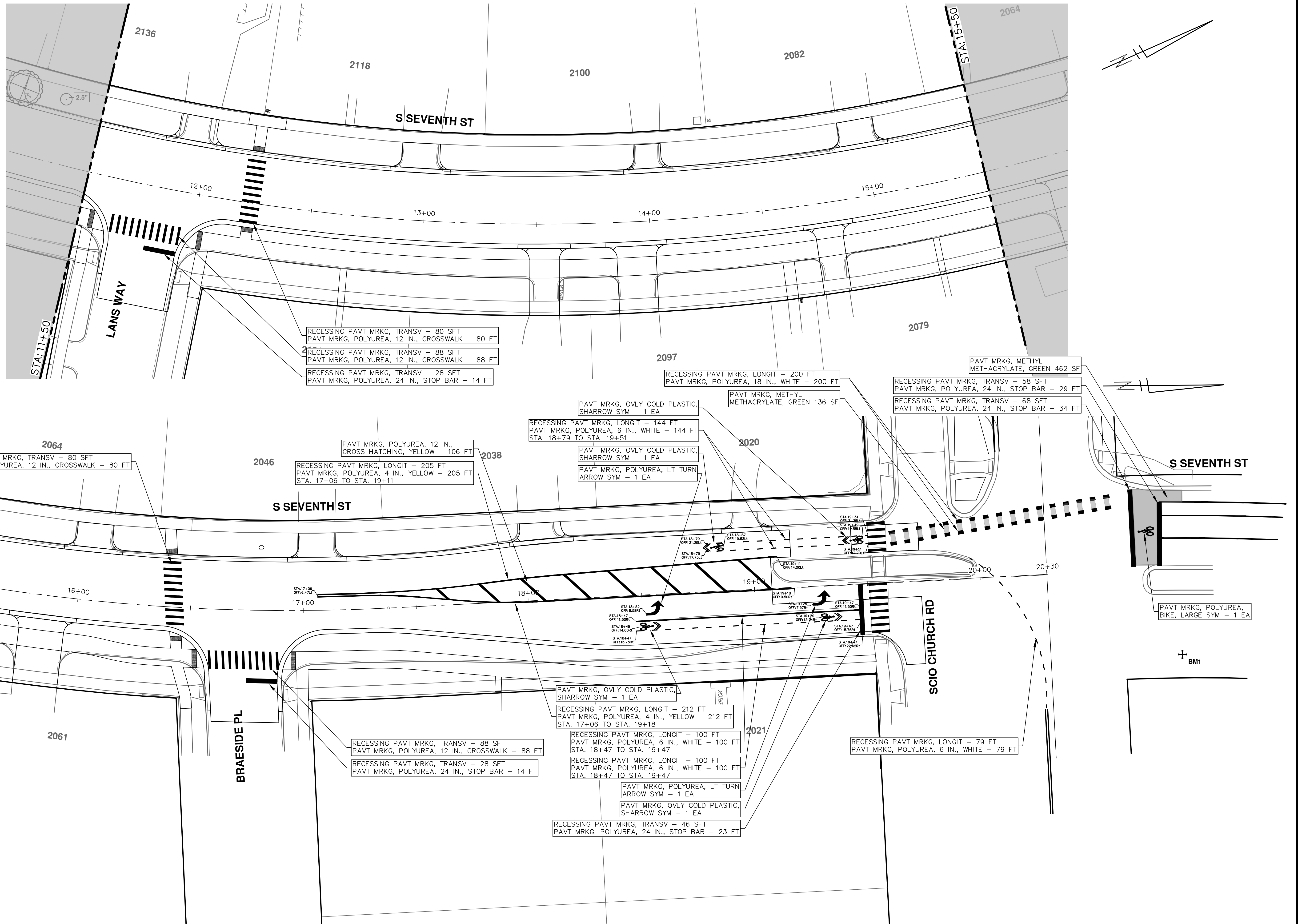


**CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING**  
**S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS**  
PAVEMENT MARKINGS - S. SEVENTH STREET  
STA. 3+00 - STA. 11+50

SCALE: 1" = 20'  
DRAWING No. 2020031-70



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RECESSING PAVT MRKG, TRANSV - 80 SFT  
PAVT MRKG, POLYUREA, 12 IN., CROSSWALK - 80 FT

RECESSING PAVT MRKG, TRANSV - 88 SFT  
PAVT MRKG, POLYUREA, 12 IN., CROSSWALK - 88 FT

RECESSING PAVT MRKG, TRANSV - 28 SFT  
PAVT MRKG, POLYUREA, 24 IN., STOP BAR - 14 FT

RECESSING PAVT MRKG, LONGIT - 200 FT  
PAVT MRKG, POLYUREA, 18 IN., WHITE - 200 FT

PAVT MRKG, METHYL METHACRYLATE, GREEN 136 SF

PAVT MRKG, METHYL METHACRYLATE, GREEN 462 SF

RECESSING PAVT MRKG, TRANSV - 58 SFT  
PAVT MRKG, POLYUREA, 24 IN., STOP BAR - 29 FT

RECESSING PAVT MRKG, TRANSV - 68 SFT  
PAVT MRKG, POLYUREA, 24 IN., STOP BAR - 34 FT

RECESSING PAVT MRKG, TRANSV - 80 SFT  
PAVT MRKG, POLYUREA, 12 IN., CROSSWALK - 80 FT

RECESSING PAVT MRKG, LONGIT - 205 FT  
PAVT MRKG, POLYUREA, 4 IN., YELLOW - 205 FT  
STA. 17+06 TO STA. 19+11

PAVT MRKG, OVLY COLD PLASTIC, SHARROW SYM - 1 EA

RECESSING PAVT MRKG, LONGIT - 144 FT  
PAVT MRKG, POLYUREA, 6 IN., WHITE - 144 FT  
STA. 18+79 TO STA. 19+51

PAVT MRKG, OVLY COLD PLASTIC, SHARROW SYM - 1 EA

PAVT MRKG, POLYUREA, LT TURN ARROW SYM - 1 EA

PAVT MRKG, POLYUREA, BIKE, LARGE SYM - 1 EA

PAVT MRKG, OVLY COLD PLASTIC, SHARROW SYM - 1 EA

RECESSING PAVT MRKG, LONGIT - 212 FT  
PAVT MRKG, POLYUREA, 4 IN., YELLOW - 212 FT  
STA. 17+06 TO STA. 19+18

RECESSING PAVT MRKG, LONGIT - 100 FT  
PAVT MRKG, POLYUREA, 6 IN., WHITE - 100 FT  
STA. 18+47 TO STA. 19+47

RECESSING PAVT MRKG, LONGIT - 100 FT  
PAVT MRKG, POLYUREA, 6 IN., WHITE - 100 FT  
STA. 18+47 TO STA. 19+47

PAVT MRKG, POLYUREA, LT TURN ARROW SYM - 1 EA

PAVT MRKG, OVLY COLD PLASTIC, SHARROW SYM - 1 EA

RECESSING PAVT MRKG, TRANSV - 46 SFT  
PAVT MRKG, POLYUREA, 24 IN., STOP BAR - 23 FT

RECESSING PAVT MRKG, LONGIT - 79 FT  
PAVT MRKG, POLYUREA, 6 IN., WHITE - 79 FT

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

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S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS  
PAVEMENT MARKINGS - S. SEVENTH STREET

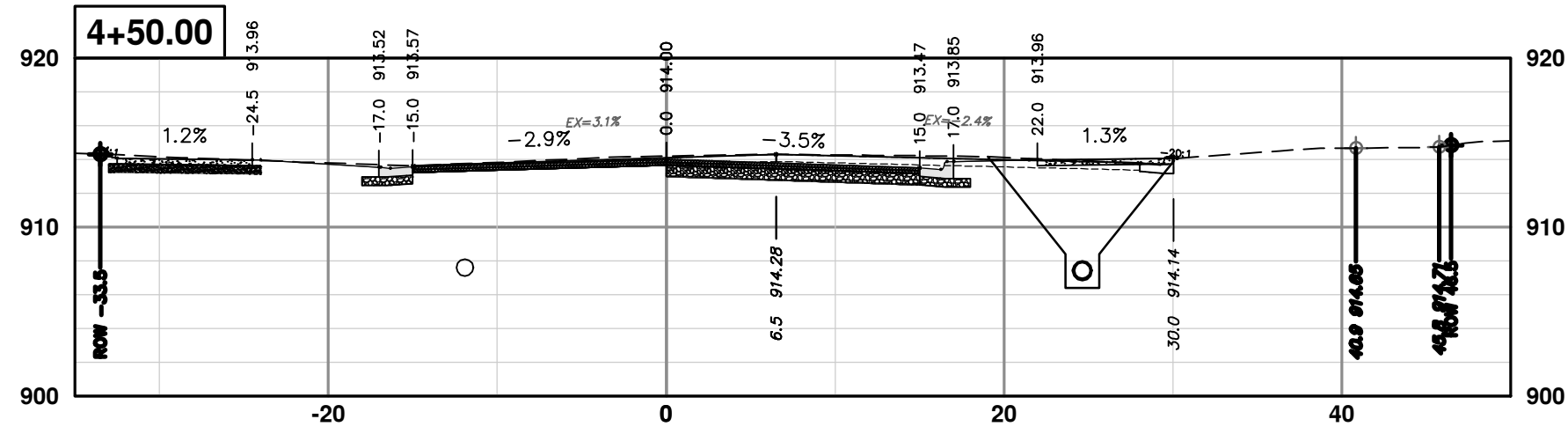
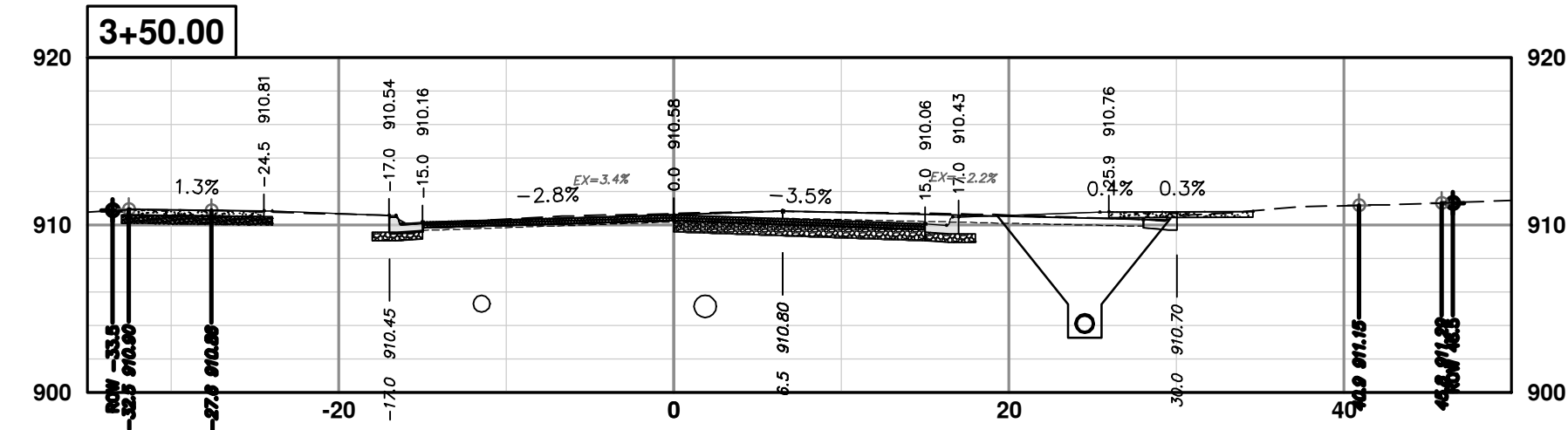
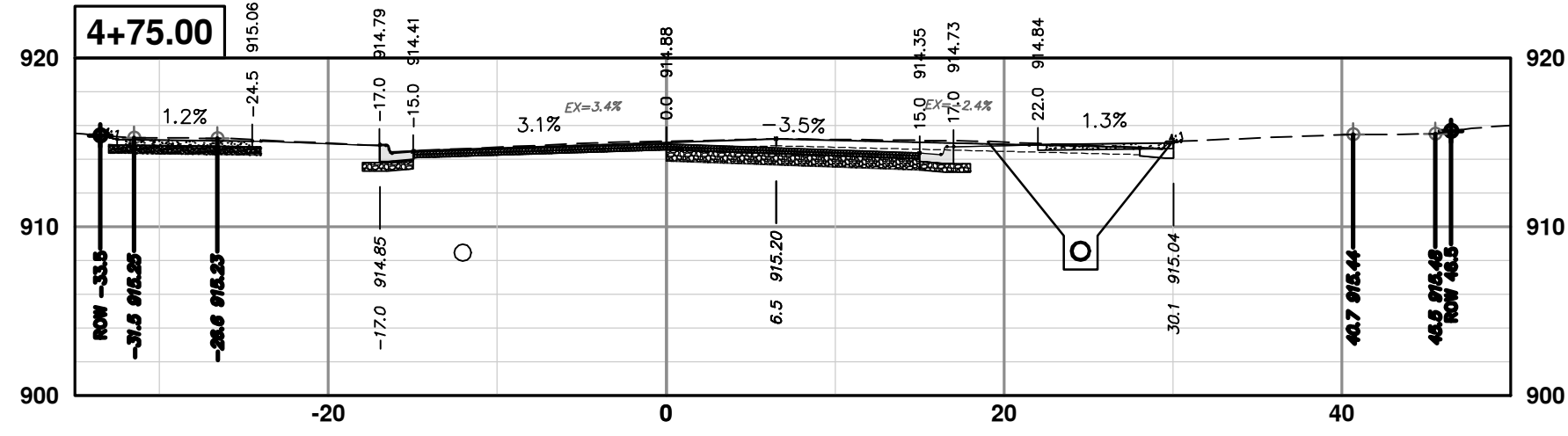
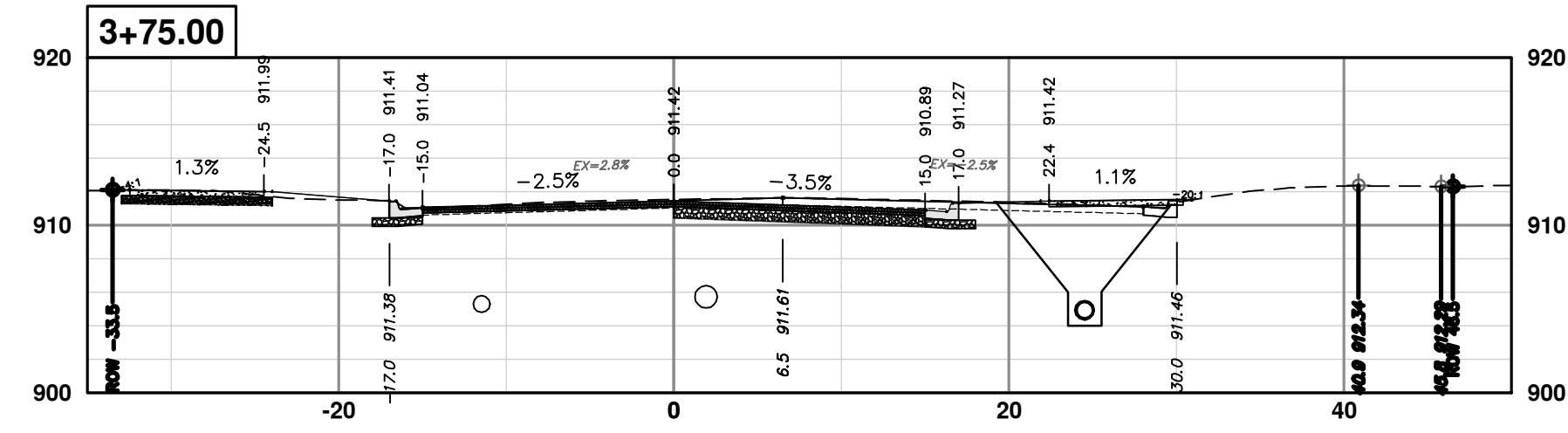
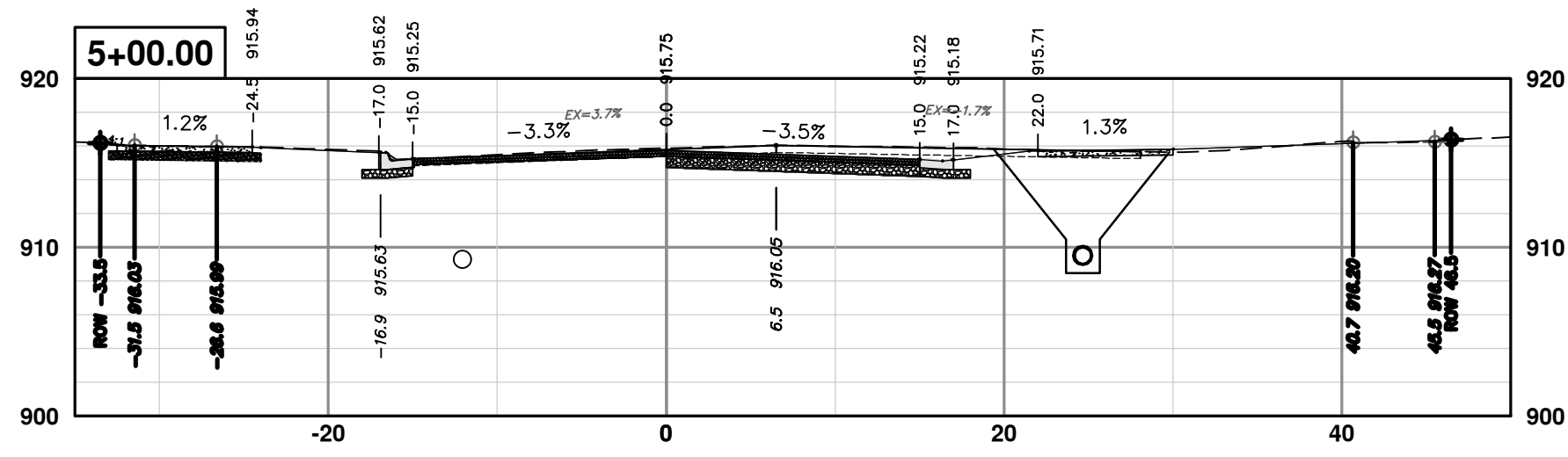
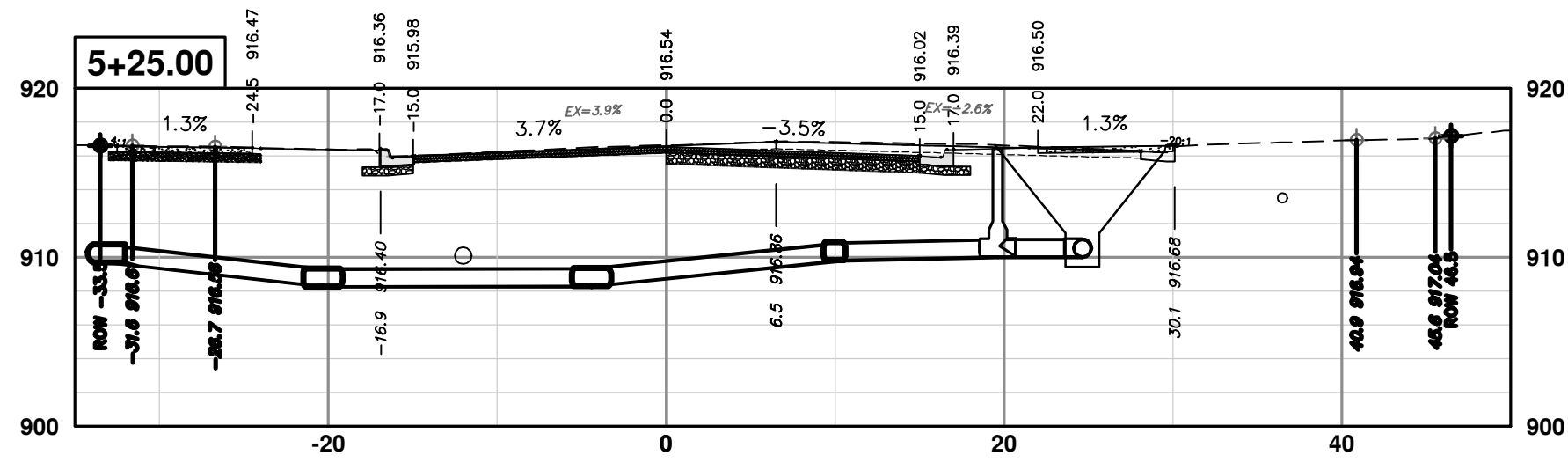
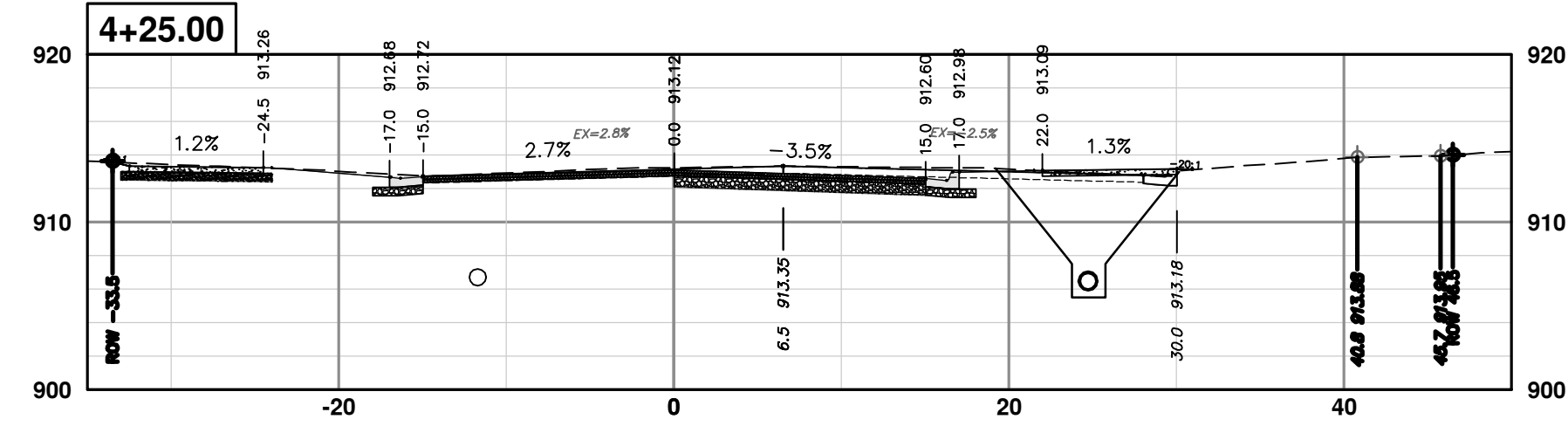
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DRAWING No. 2020031-71

SHEET No. 71 OF 92

STA. 11+50 - STA. 21+00

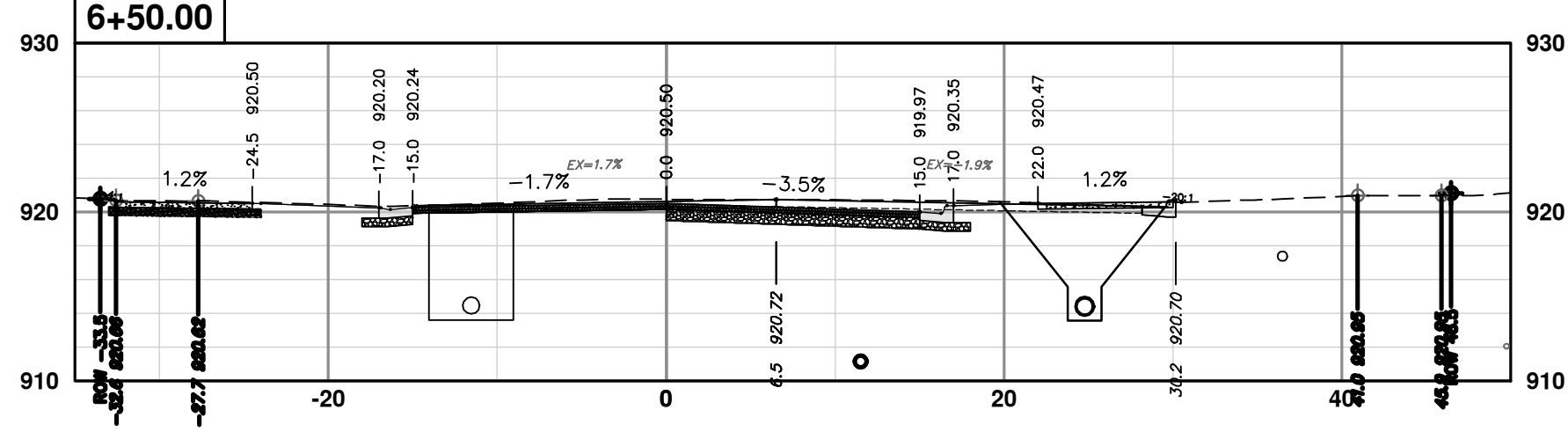
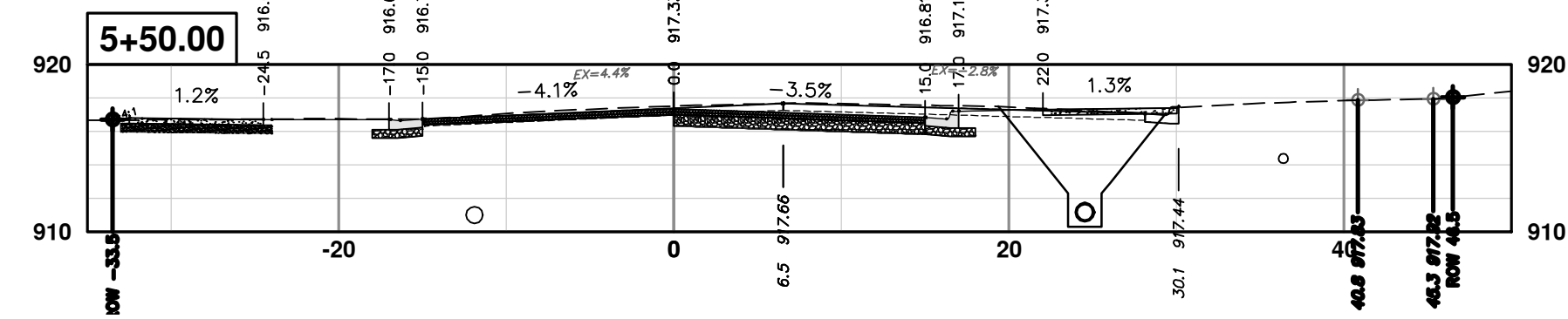
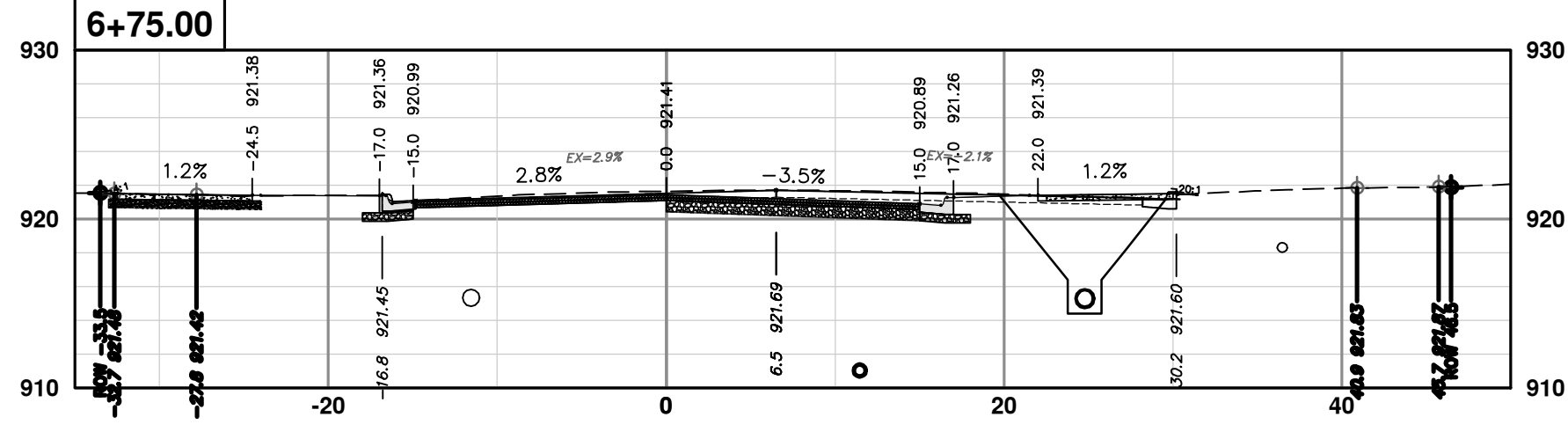
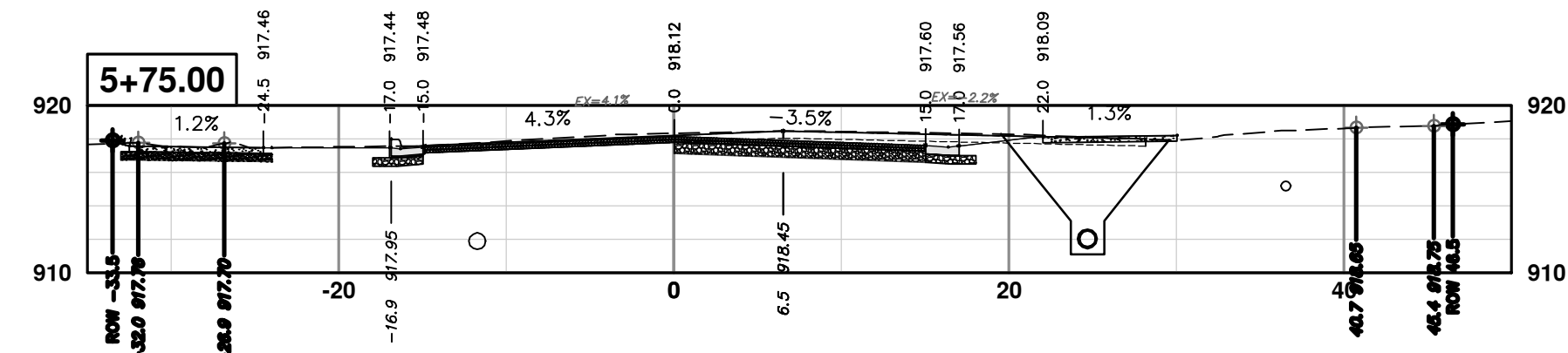
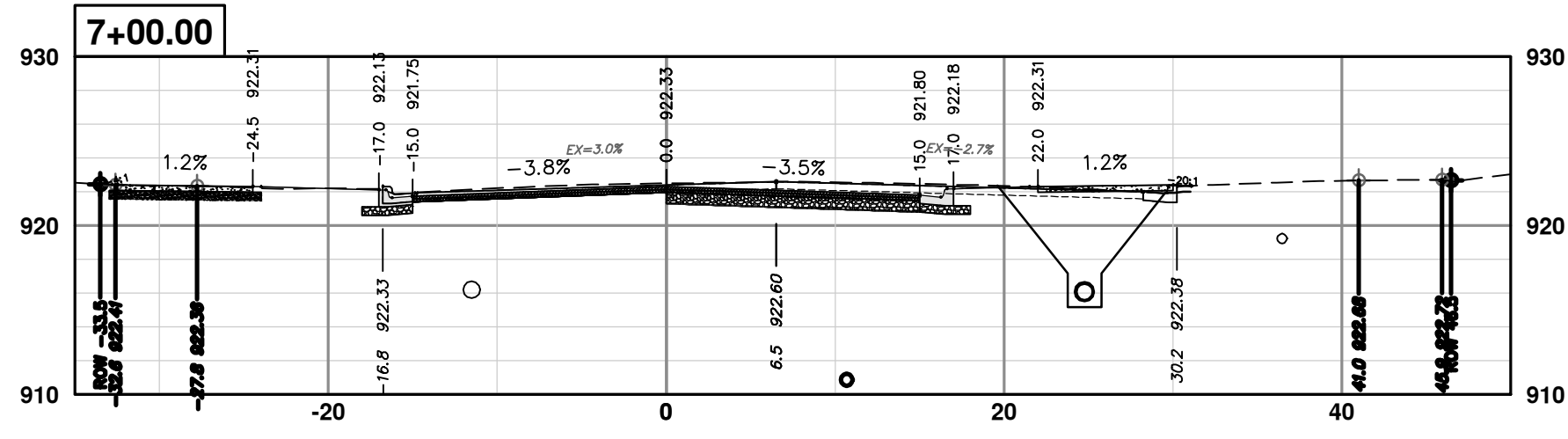
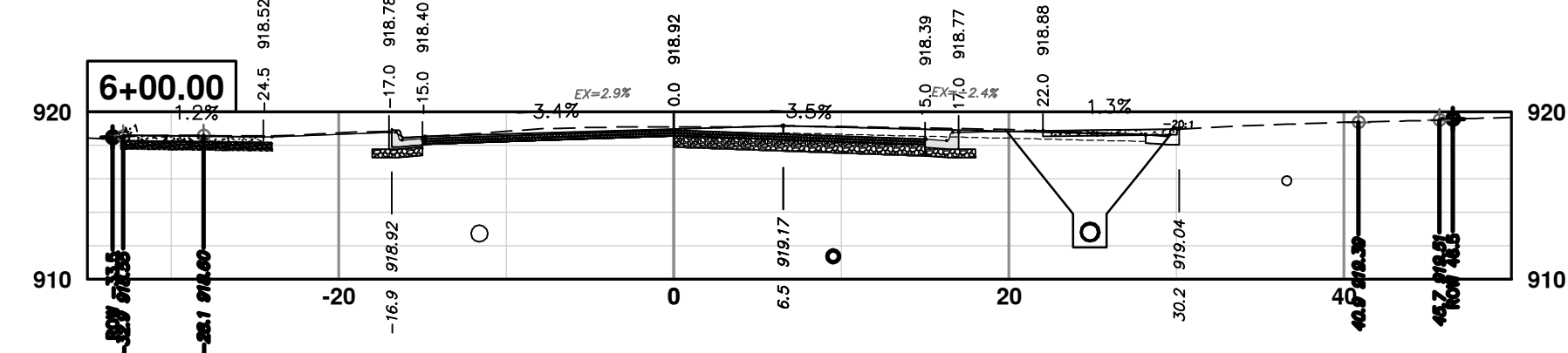
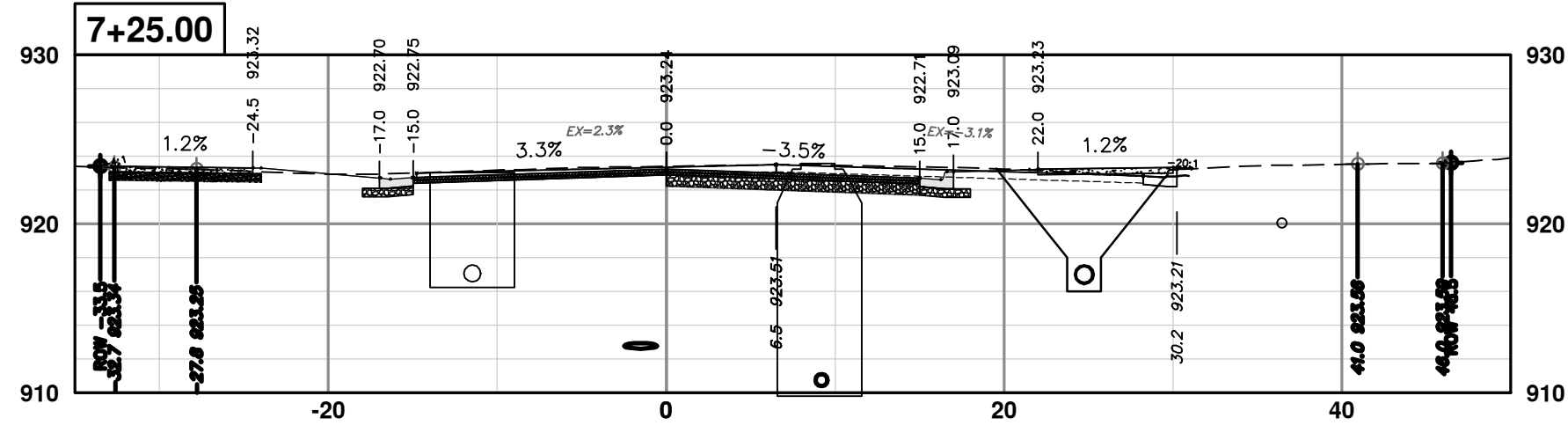
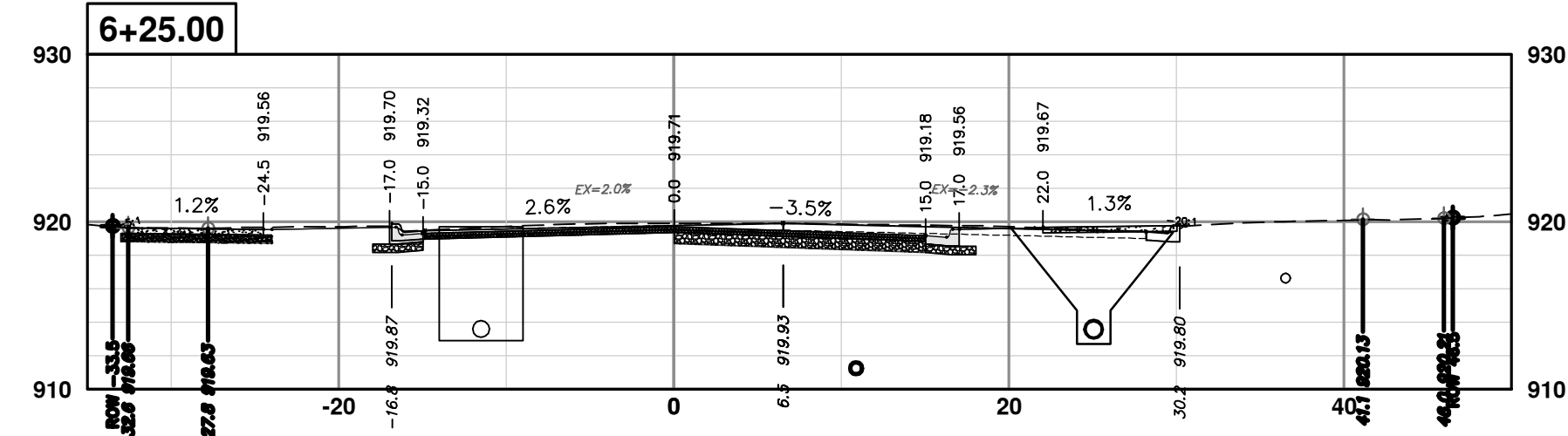




REV.	DESCRIPTION	DATE	BY	CHECKED
00	BID SET	1-30-24	AZD	TA

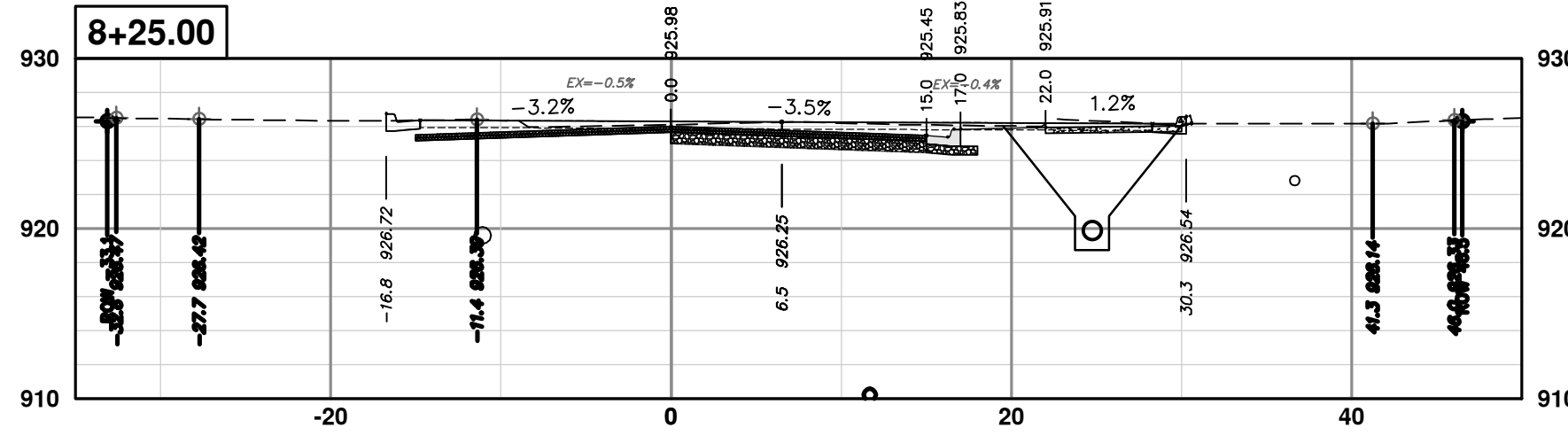
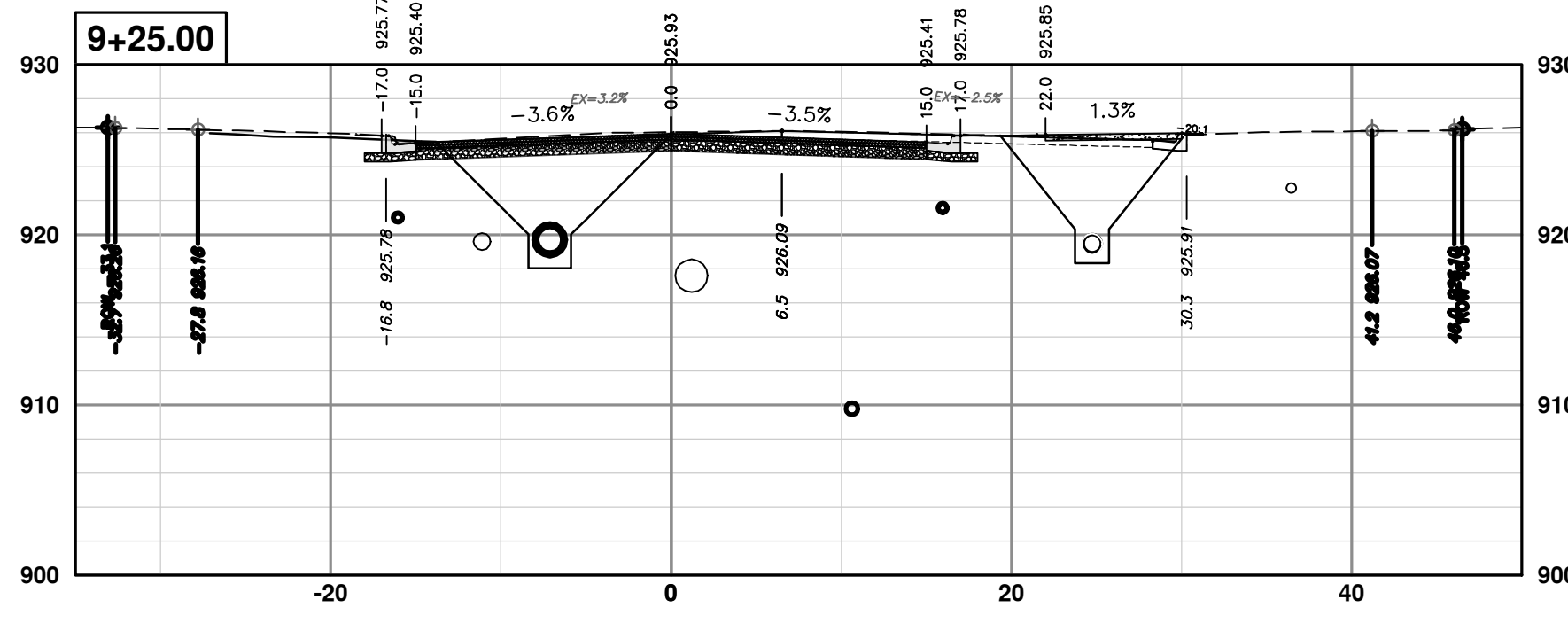
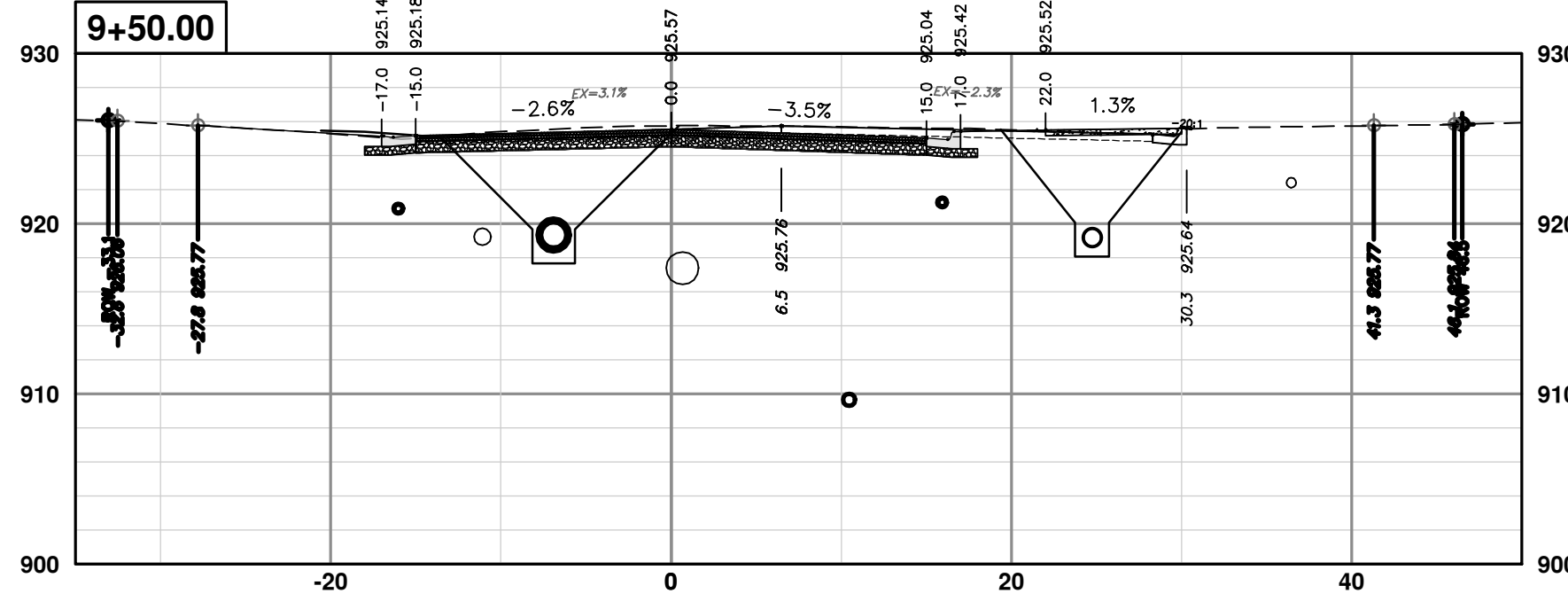
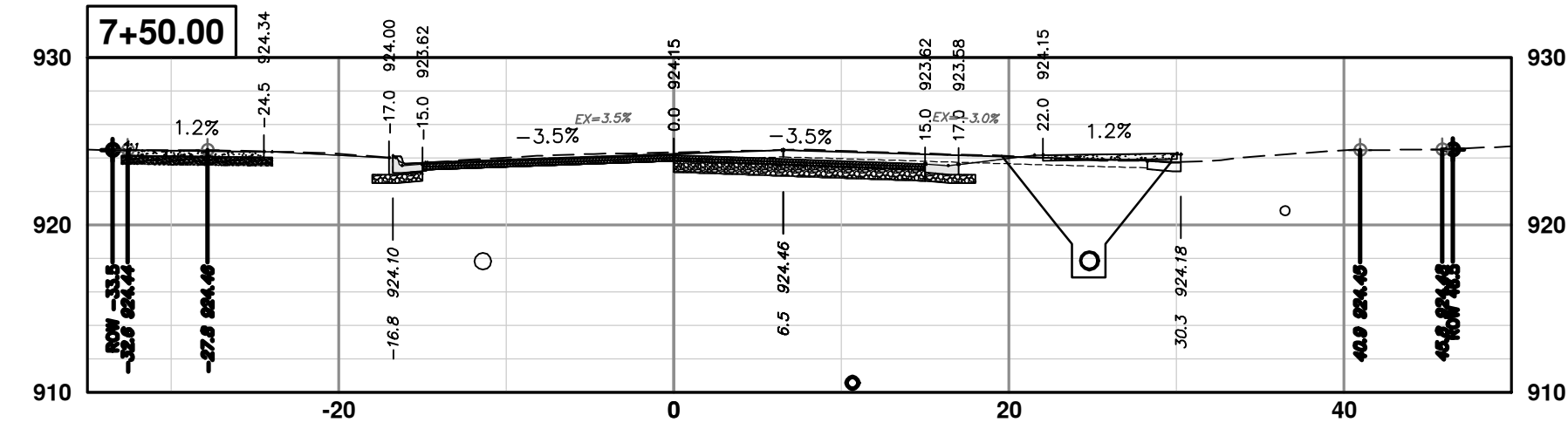
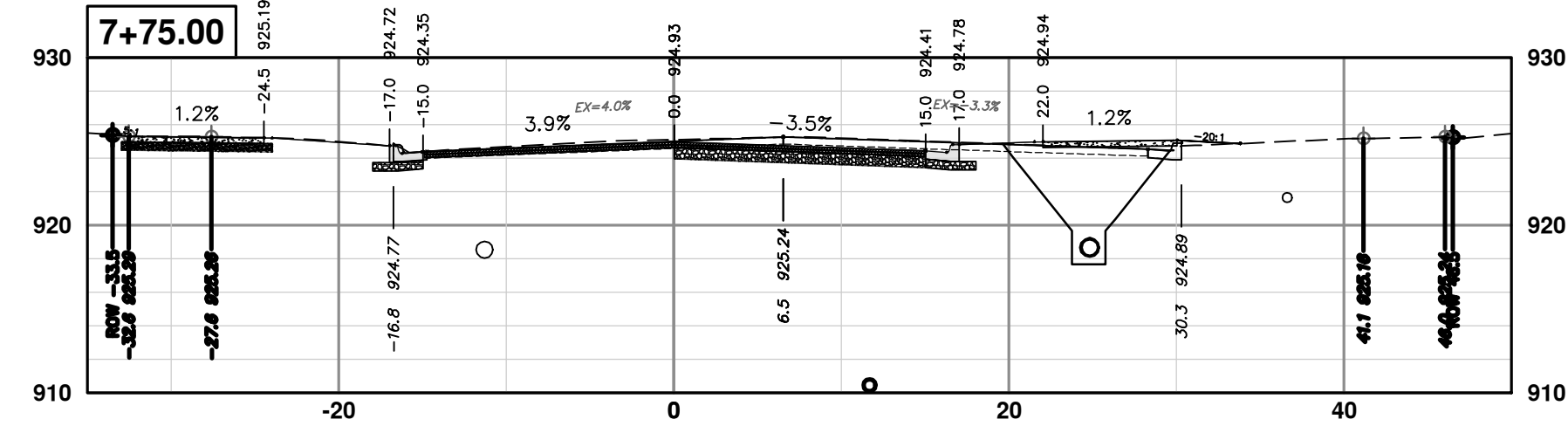
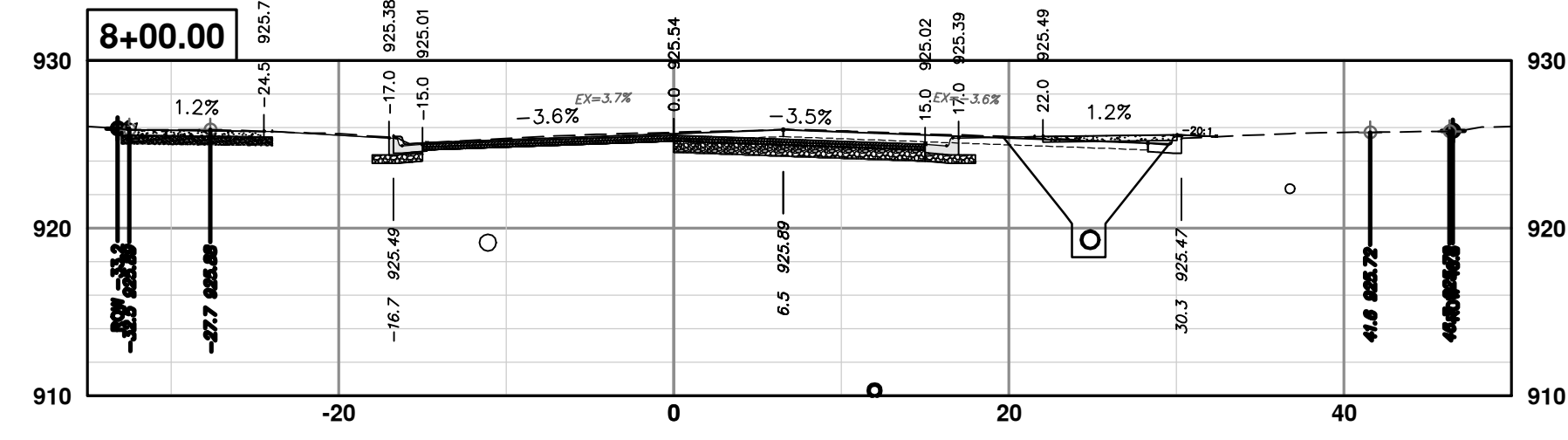






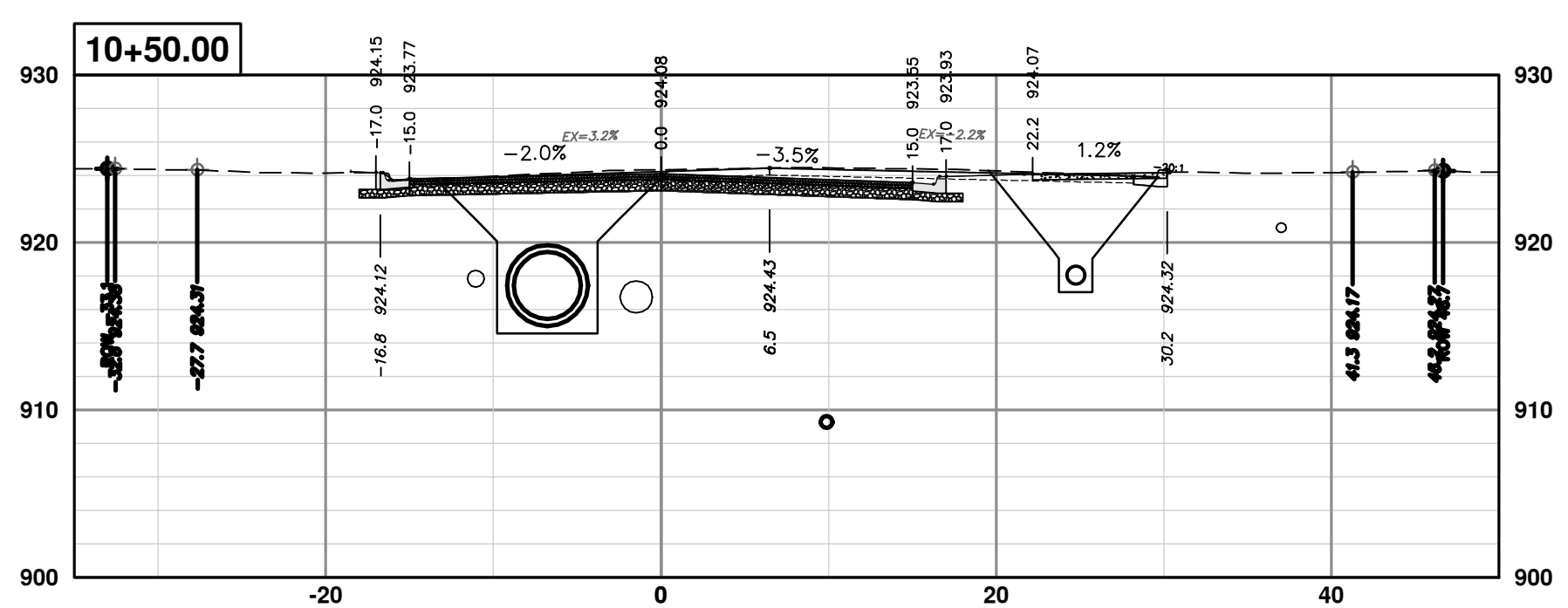
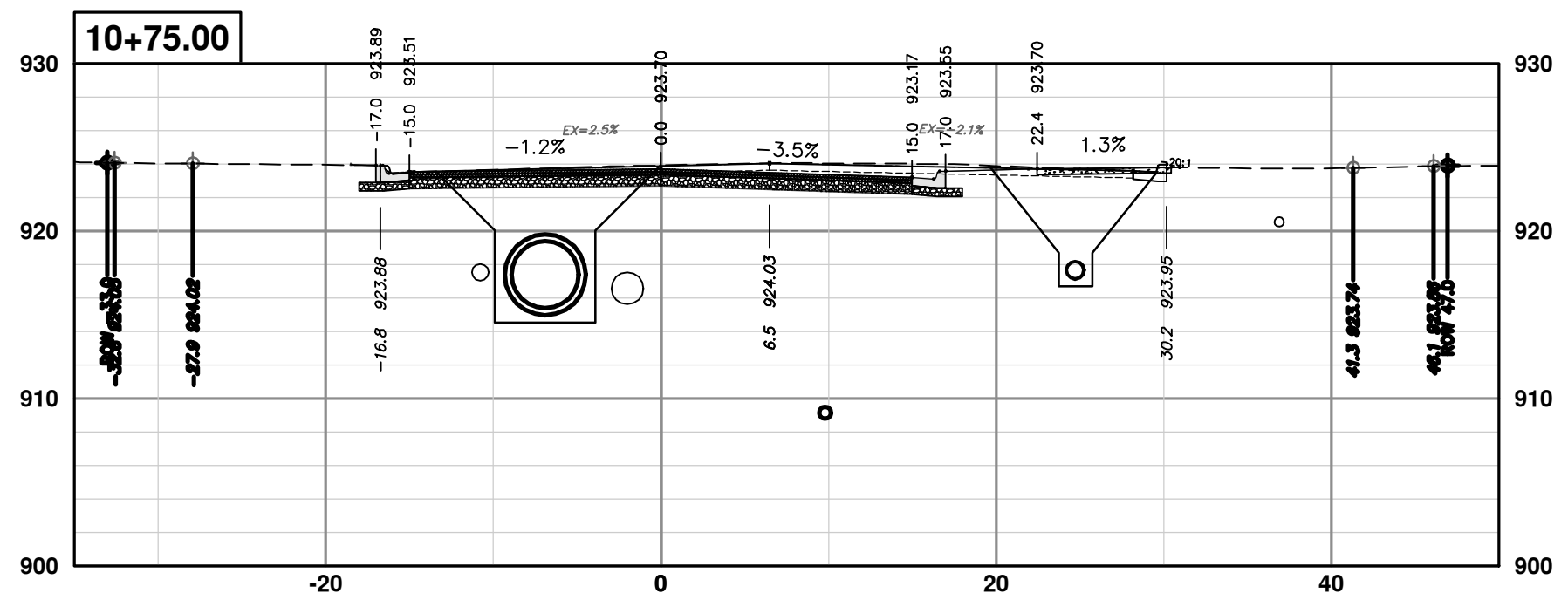
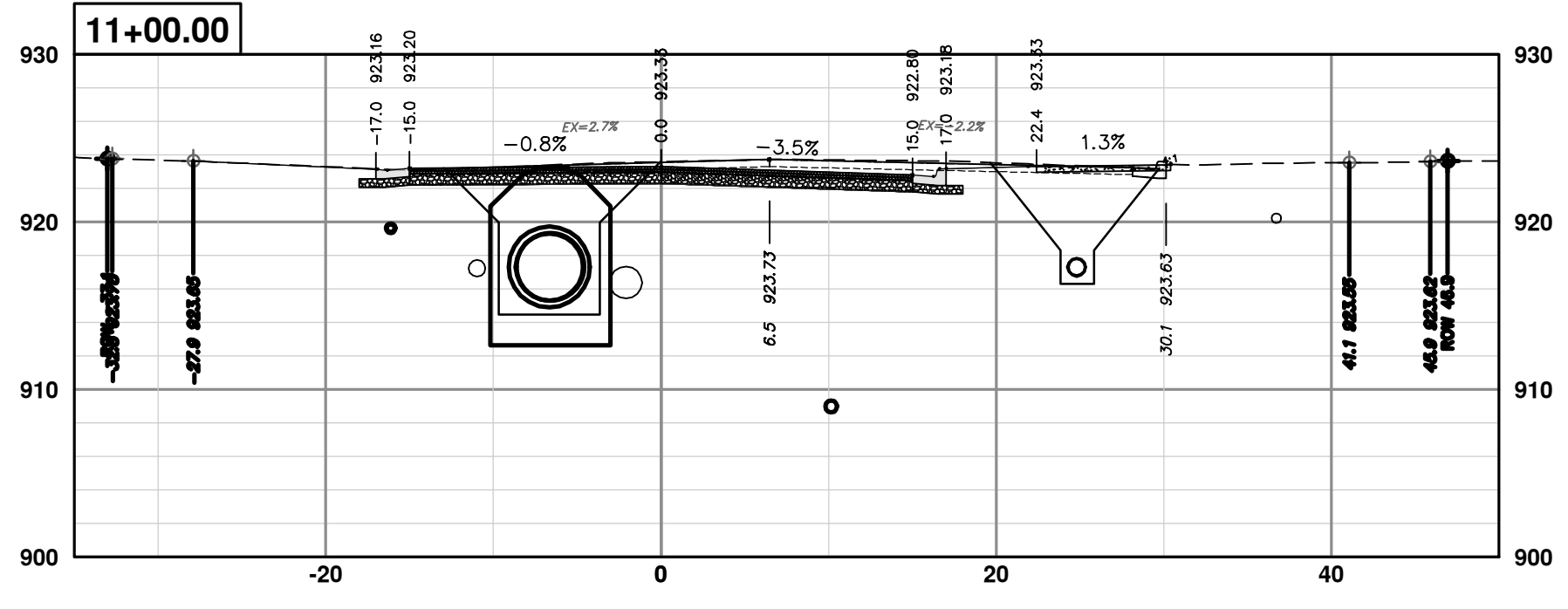
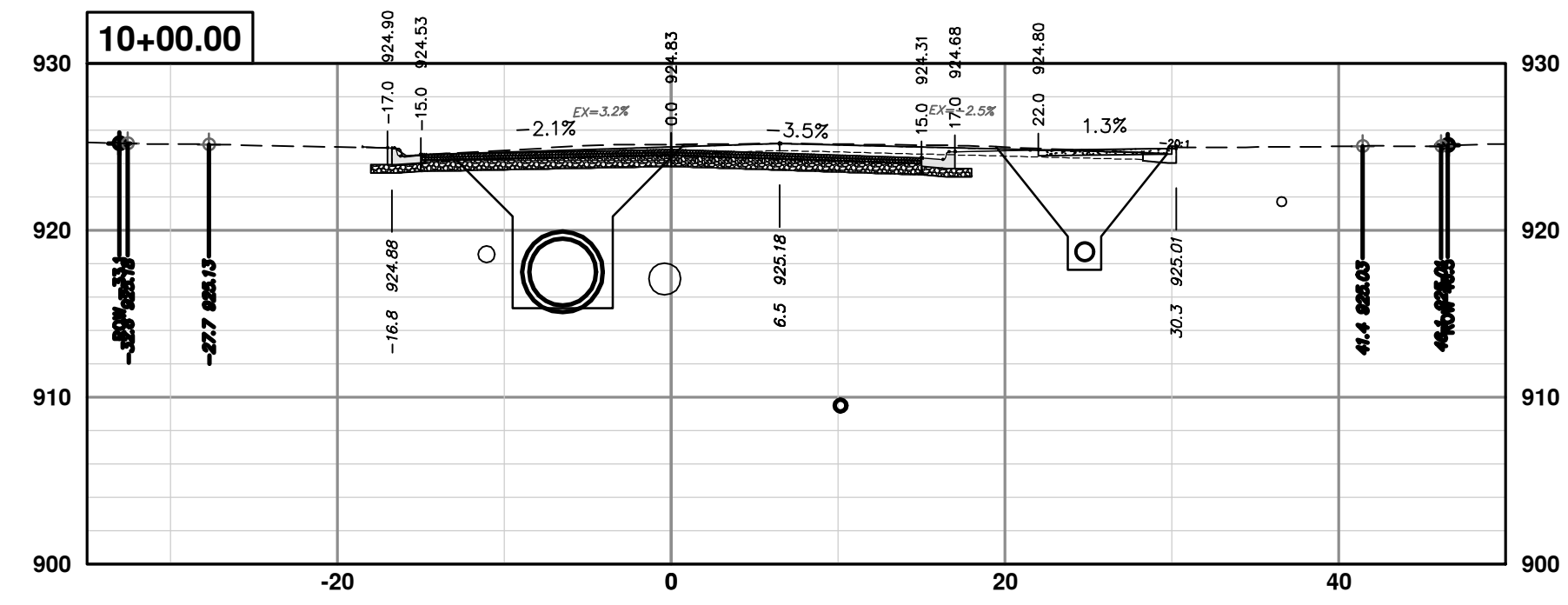
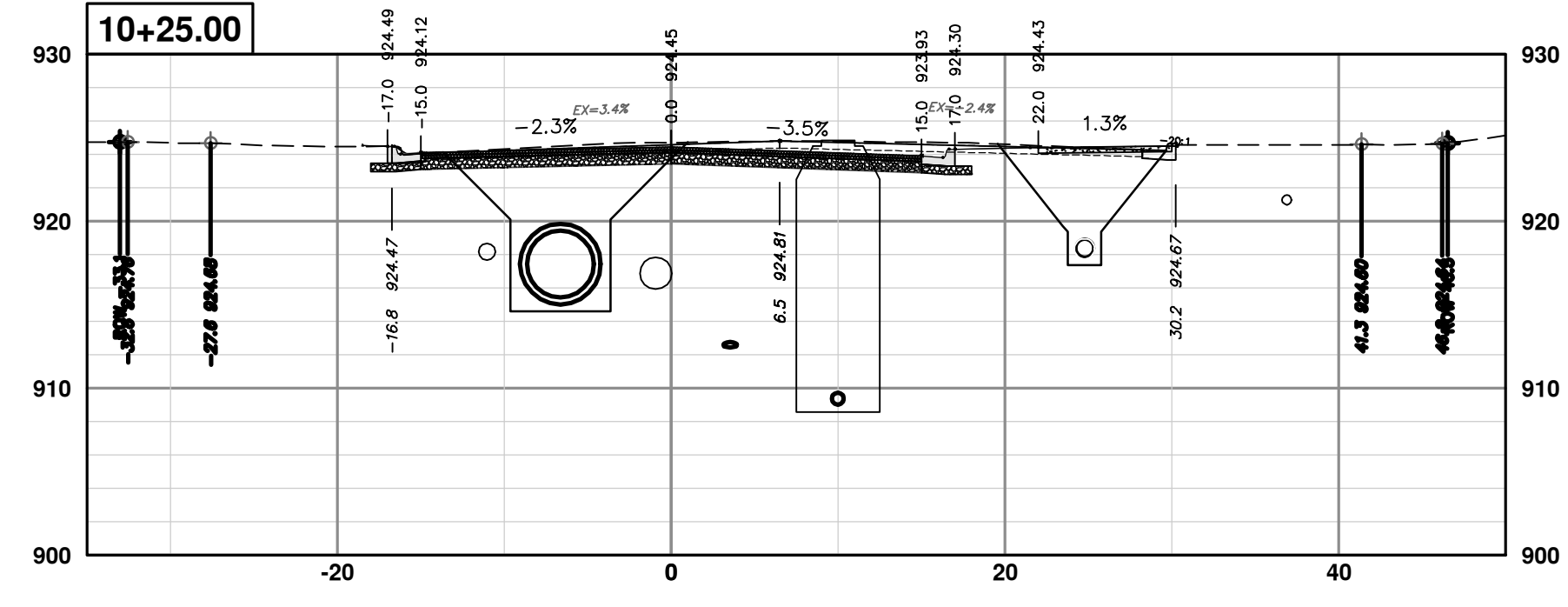
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REV.	DATE	DESCRIPTION
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		DRAWN
		TA
		CHECKED





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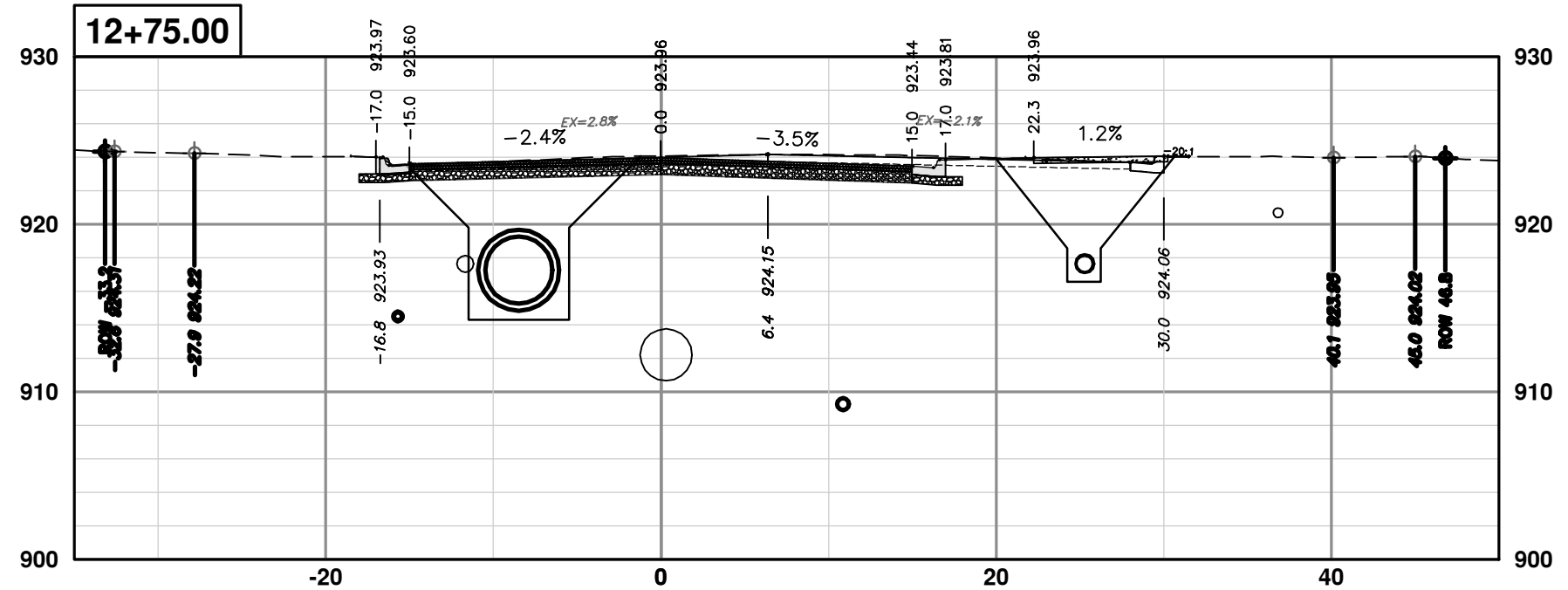
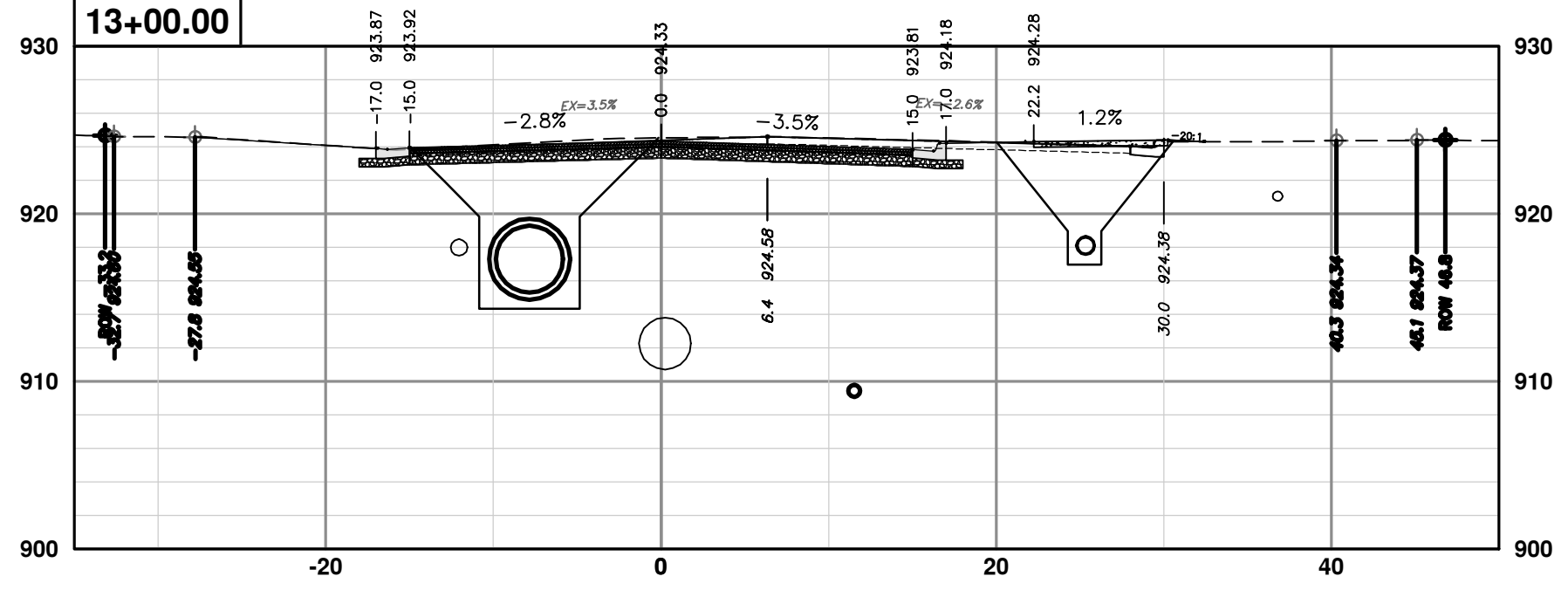
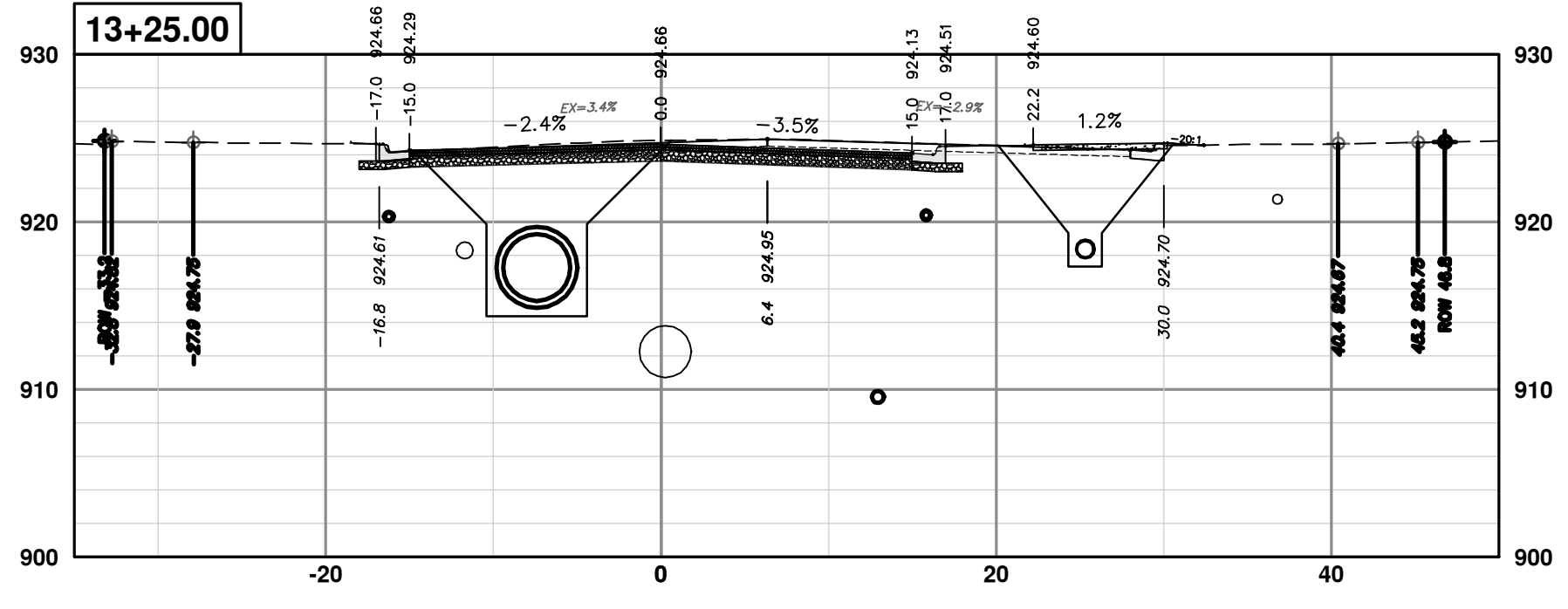
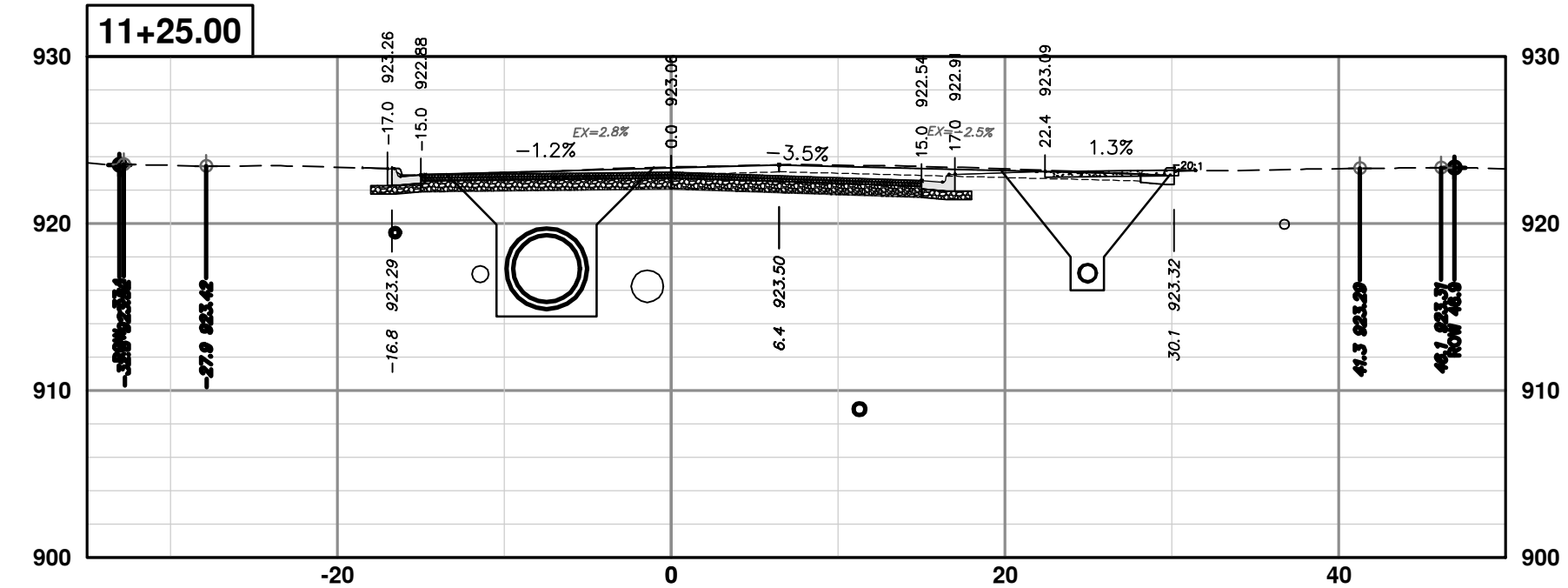
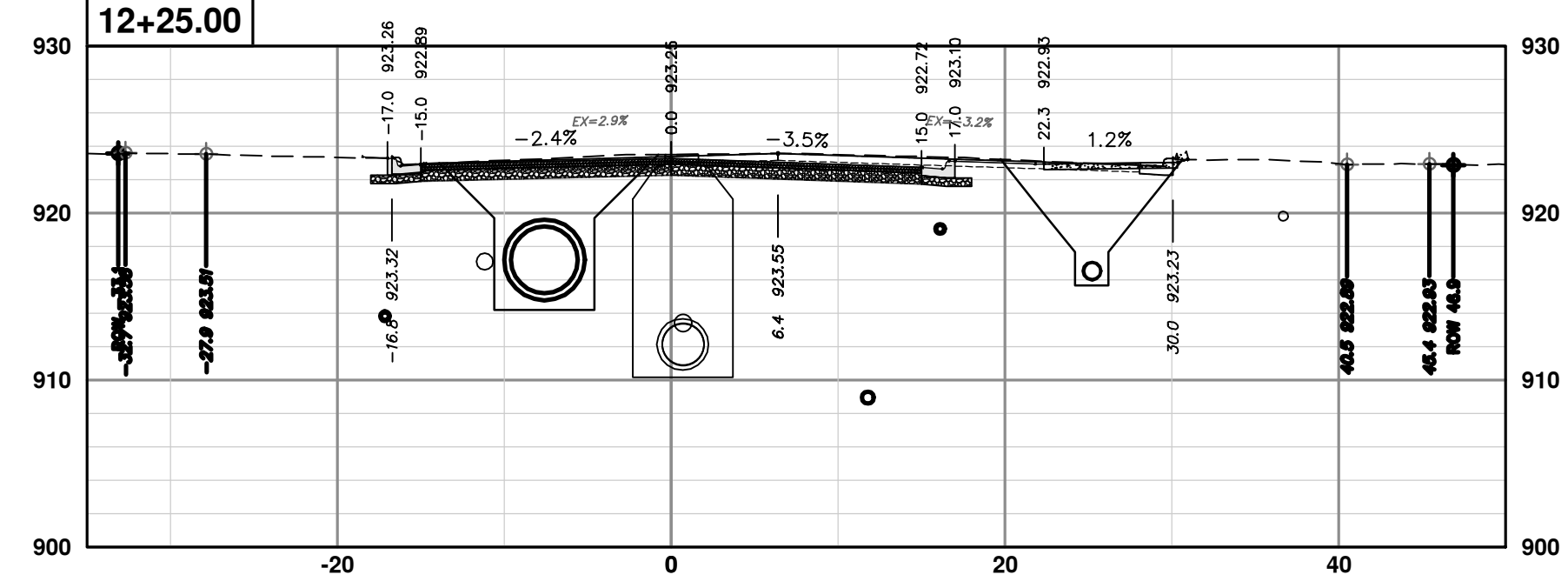
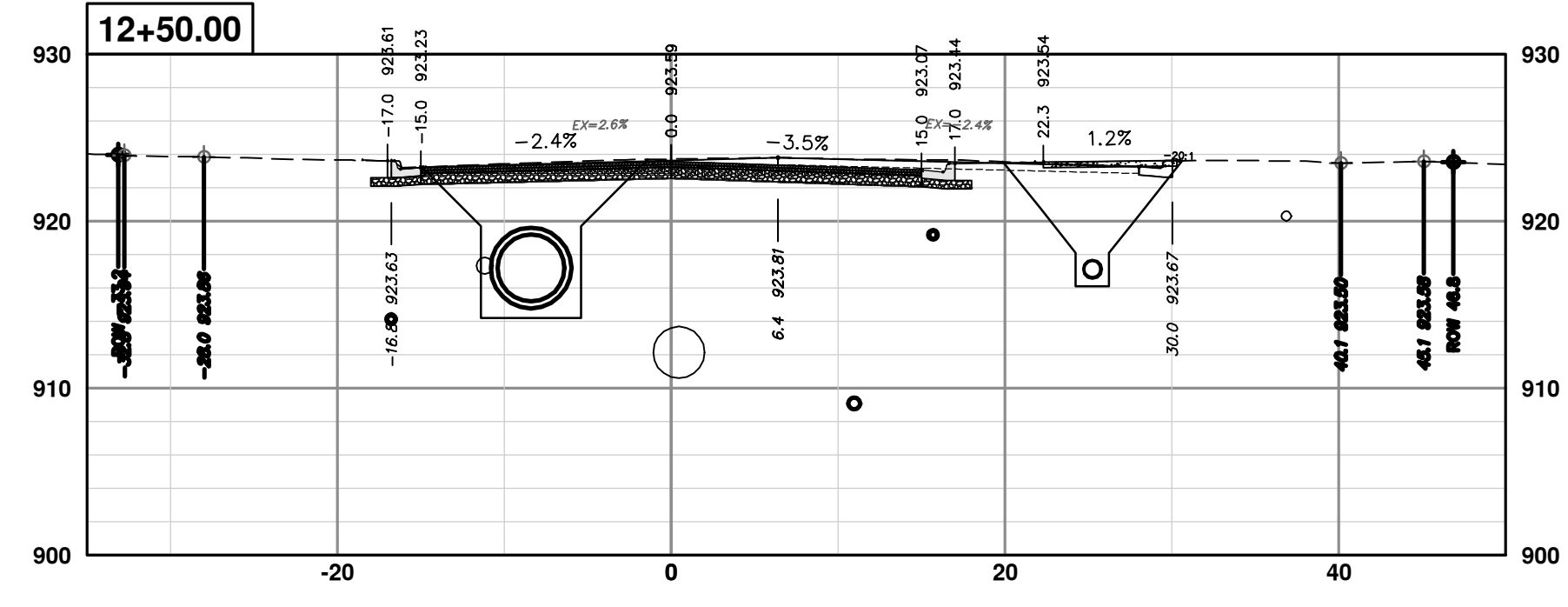


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**S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS**  
CROSS-SECTIONS - S. SEVENTH STREET  
STA. 9+75 - STA. 11+00

SHEET No. **75 OF 92**  
SCALE PLAN: 1" = 10'  
PROFILE: 1" = 10'  
DRAWING No. **2020031-75**

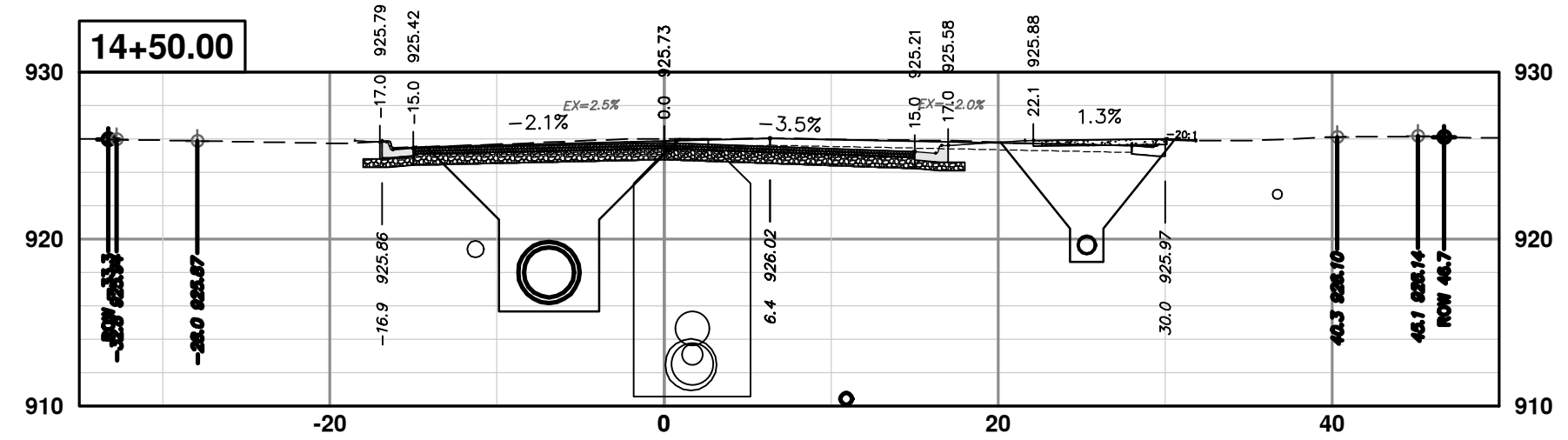
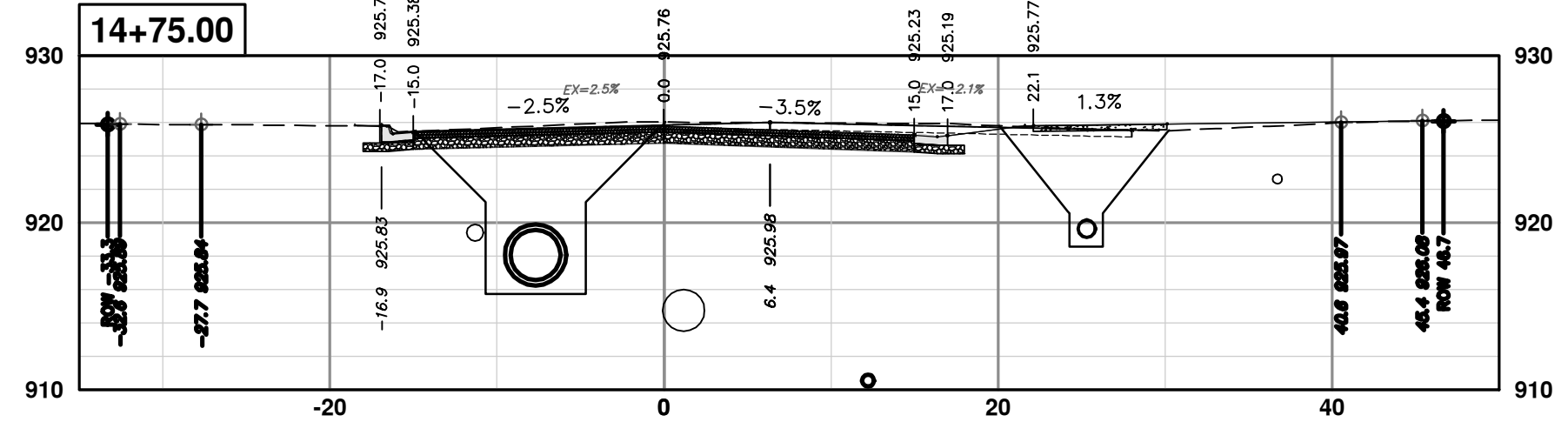
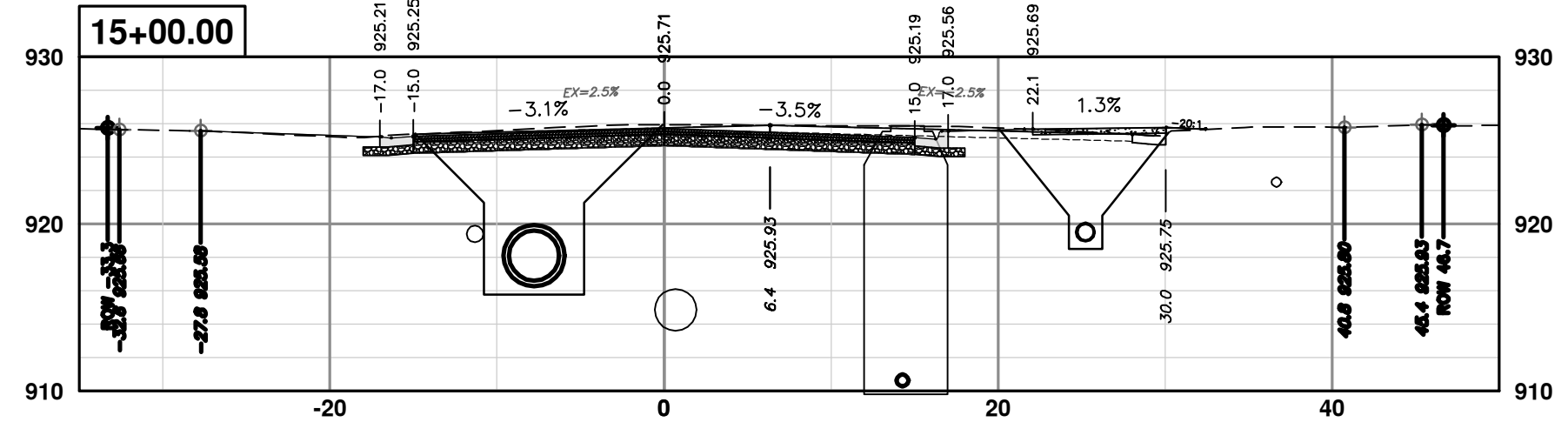
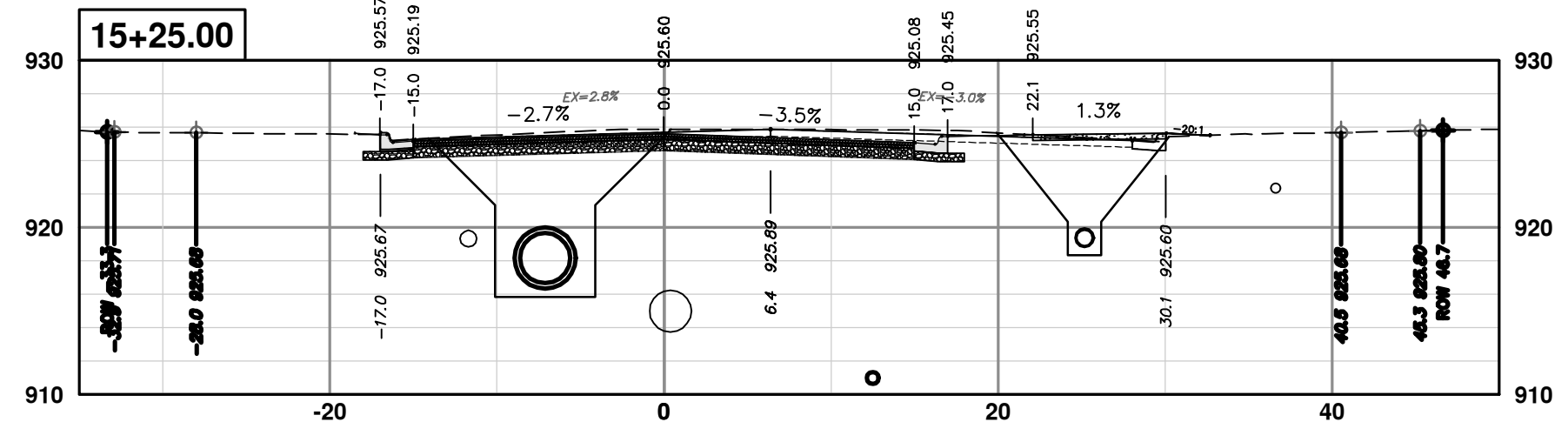
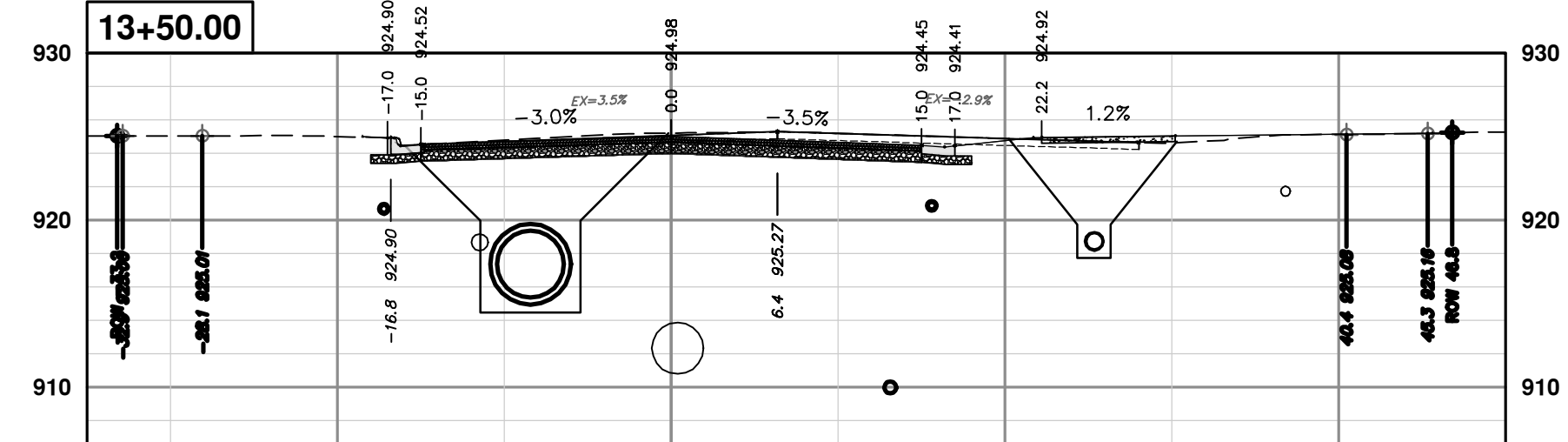
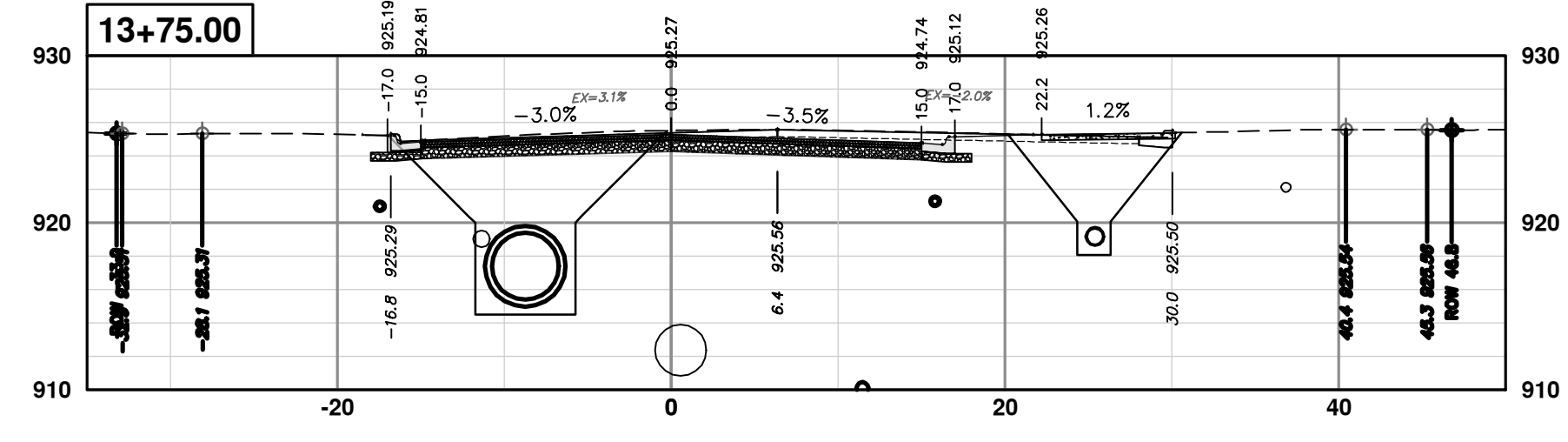
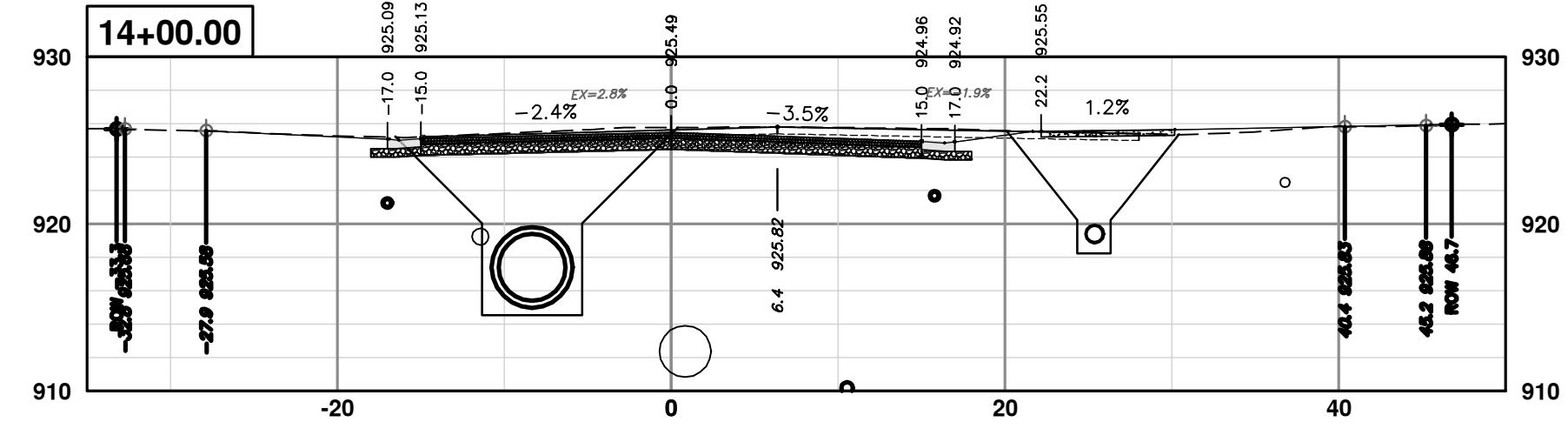
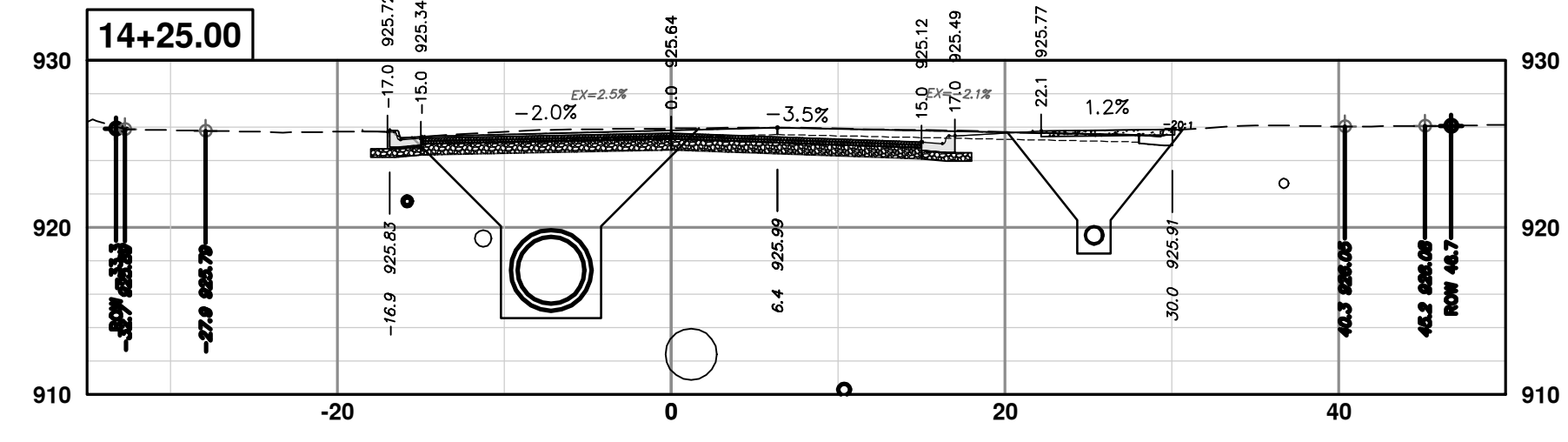
REV.	DESCRIPTION	DATE	DRAWN	CHECKED
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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
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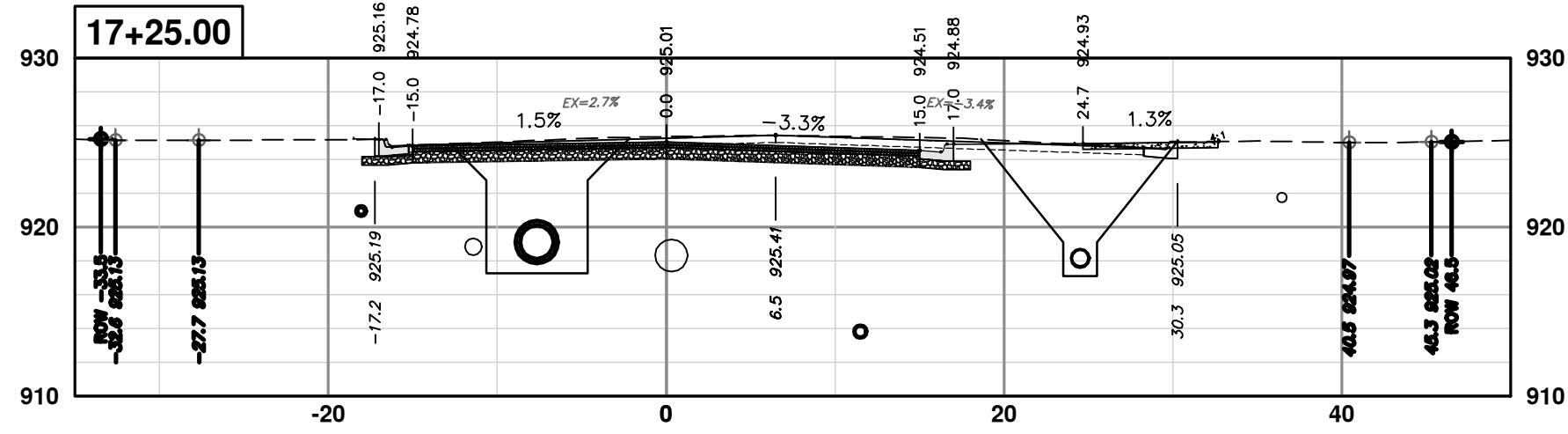
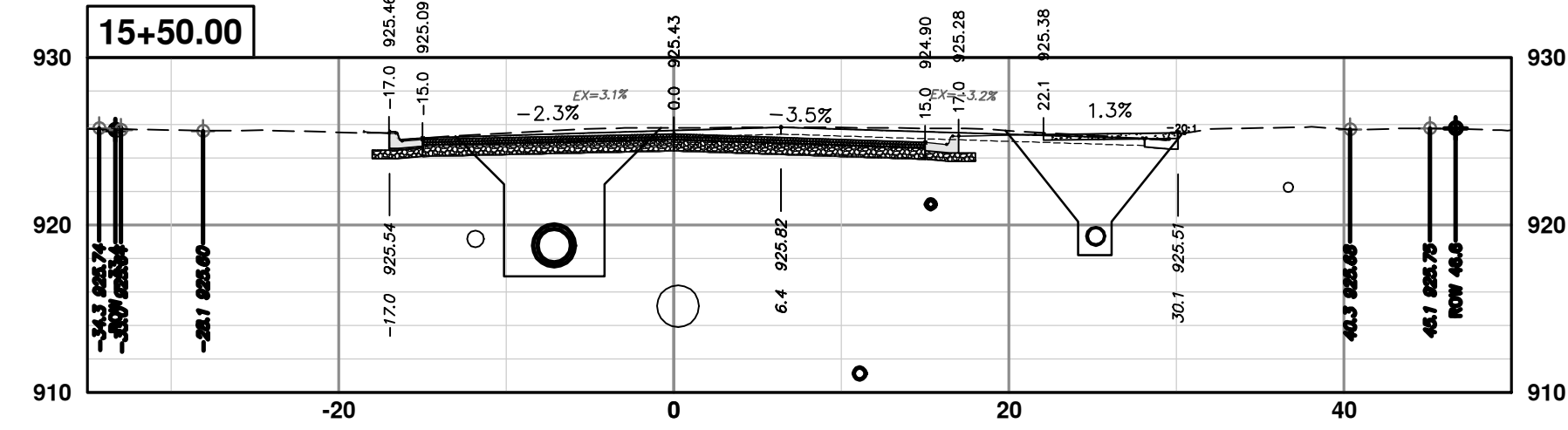
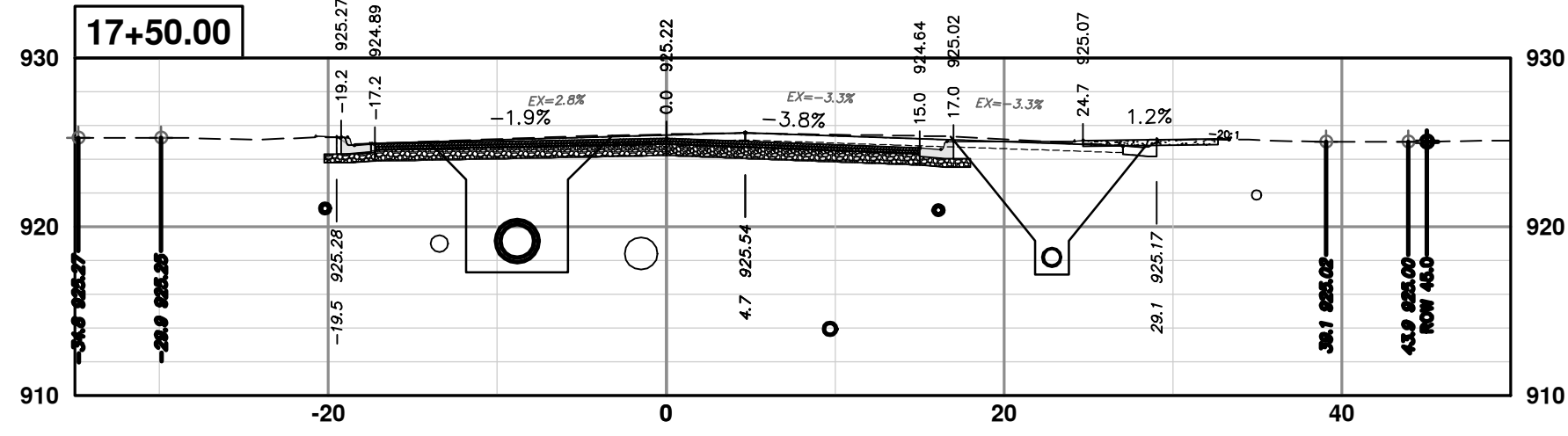
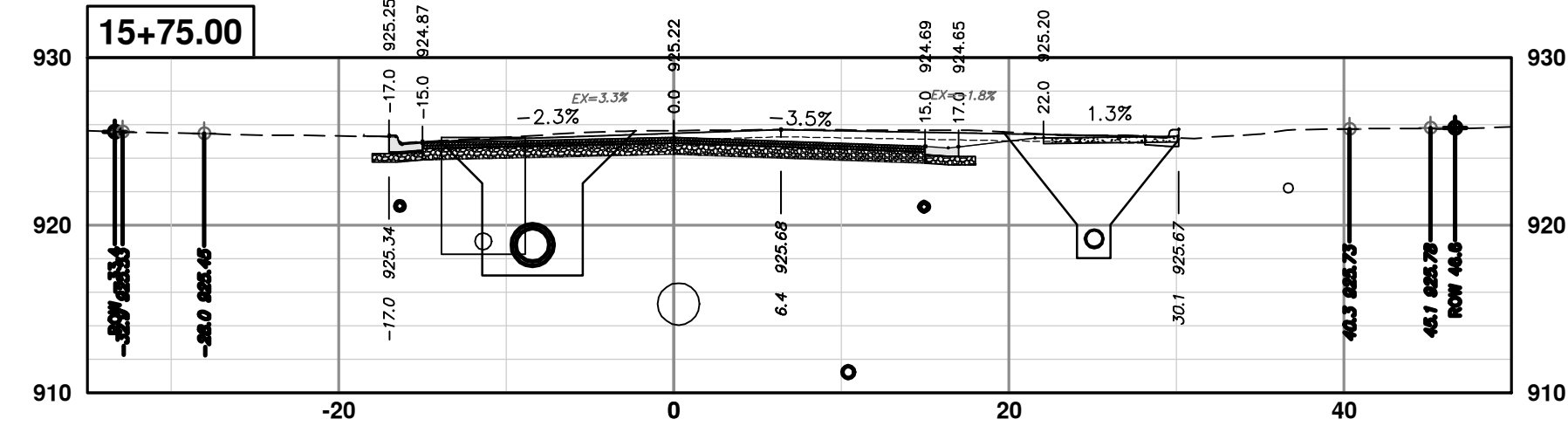
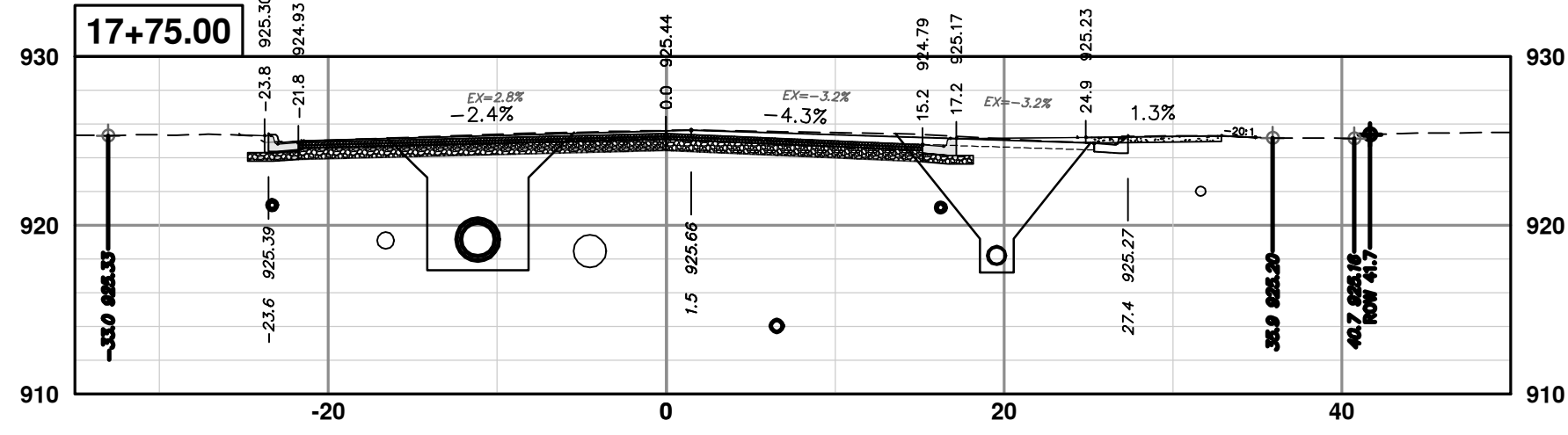
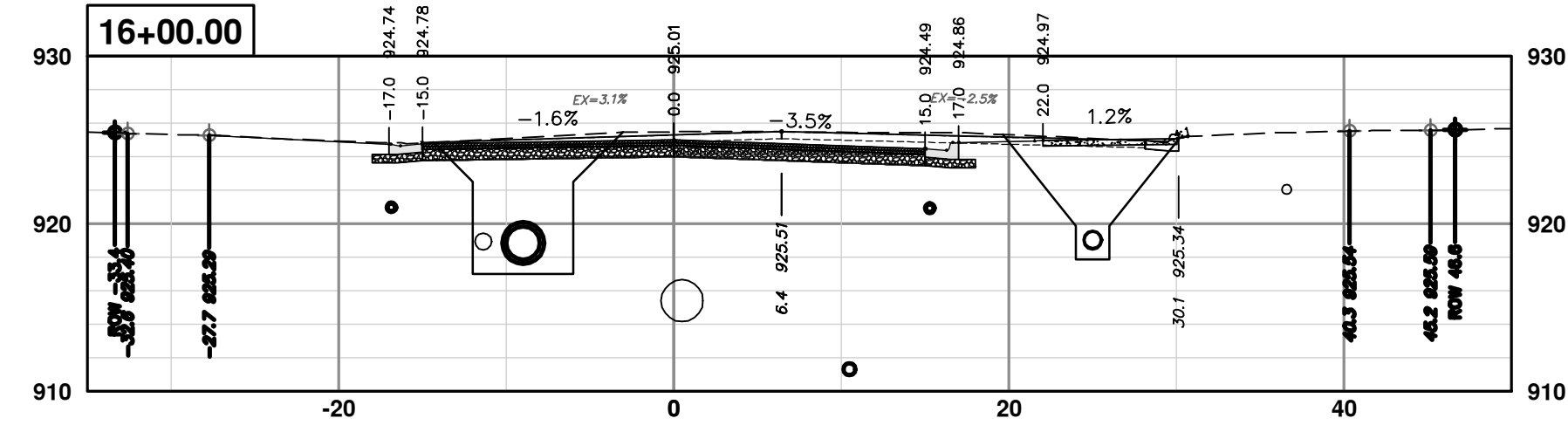
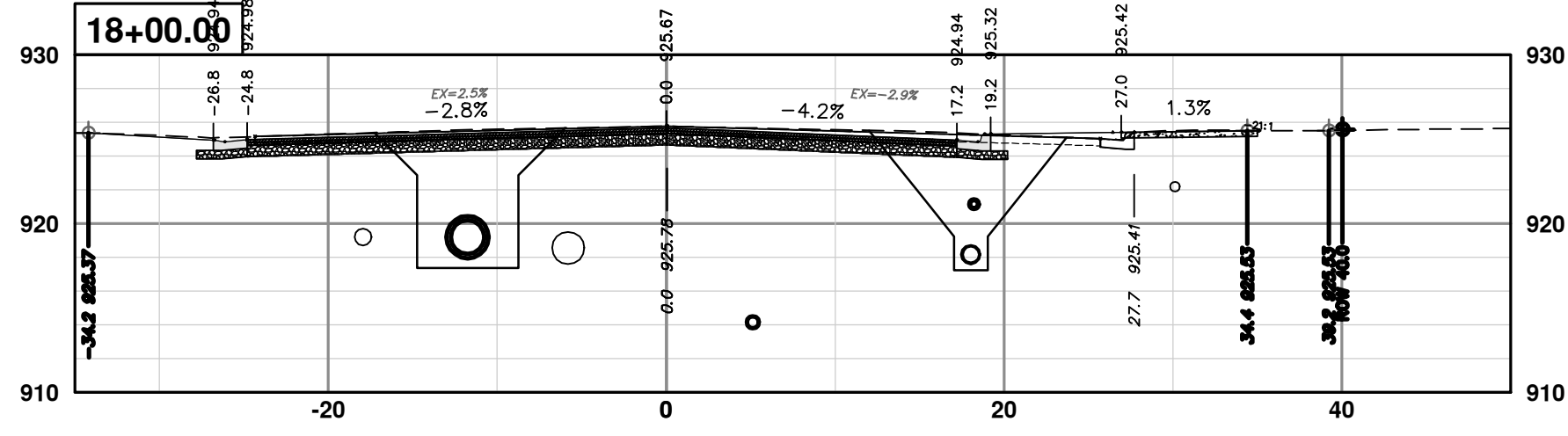
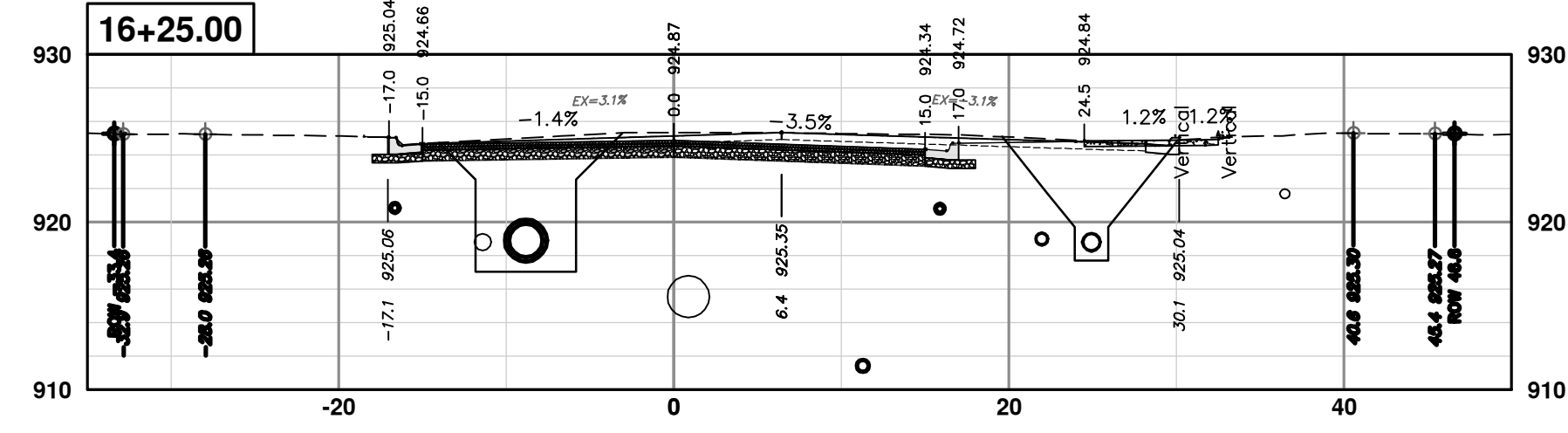


CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING  
S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS  
CROSS-SECTIONS - S. SEVENTH STREET  
STA. 13+50 - STA. 15+25

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

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





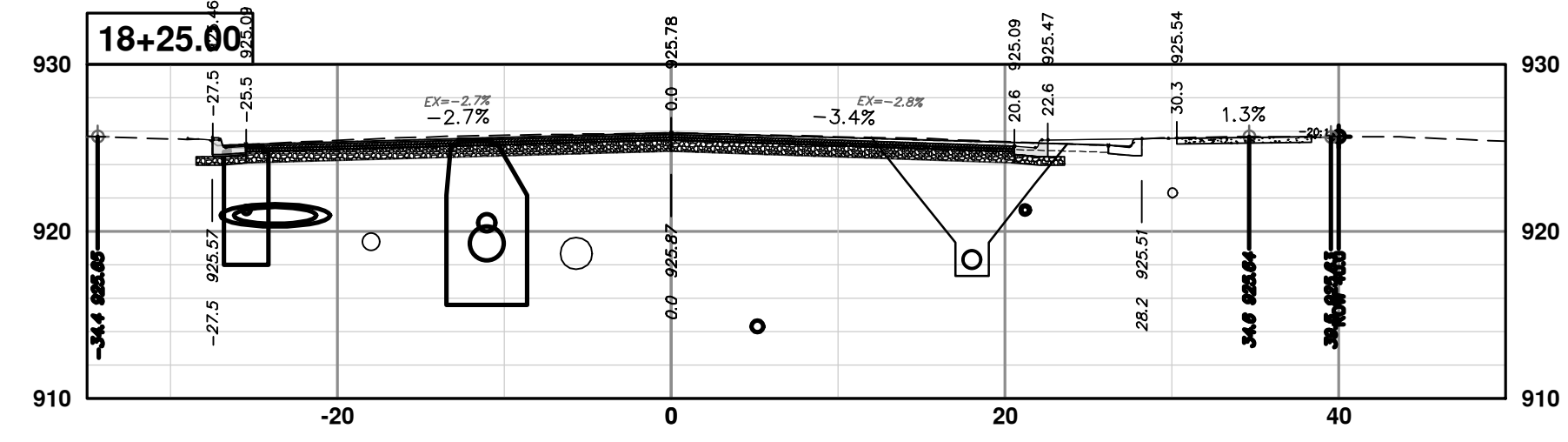
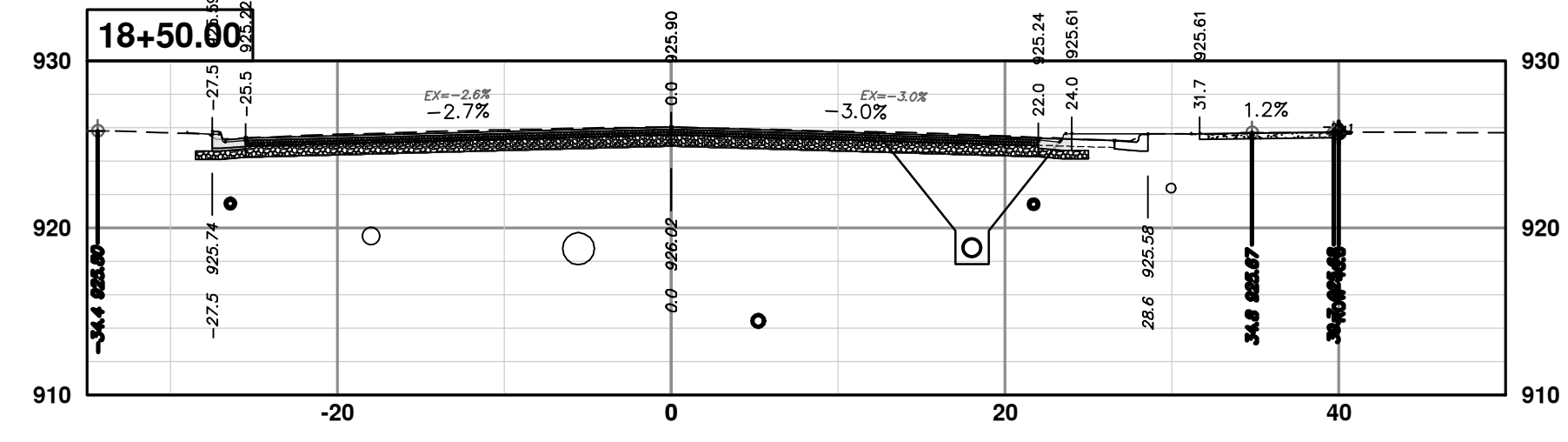
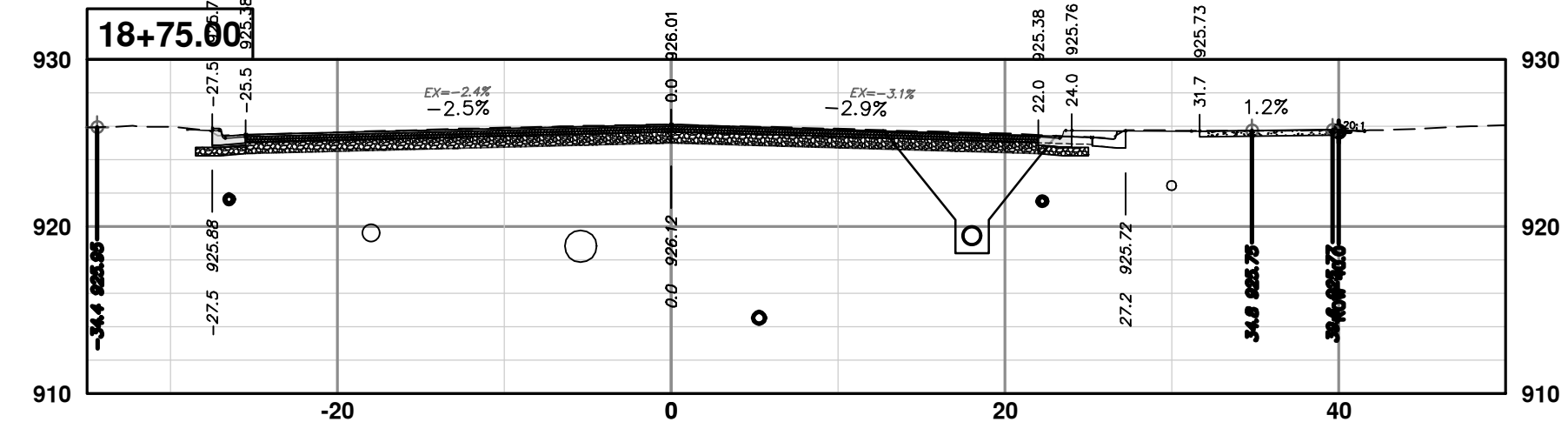
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CROSS-SECTIONS - S. SEVENTH STREET  
STA. 15+50 - STA. 18+00

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





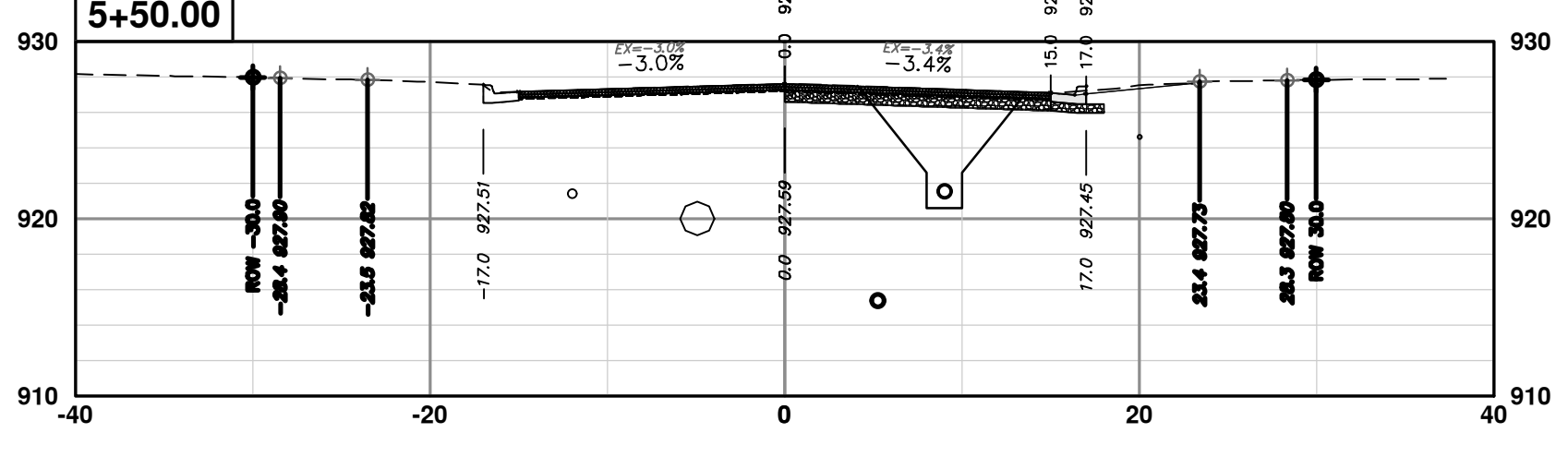
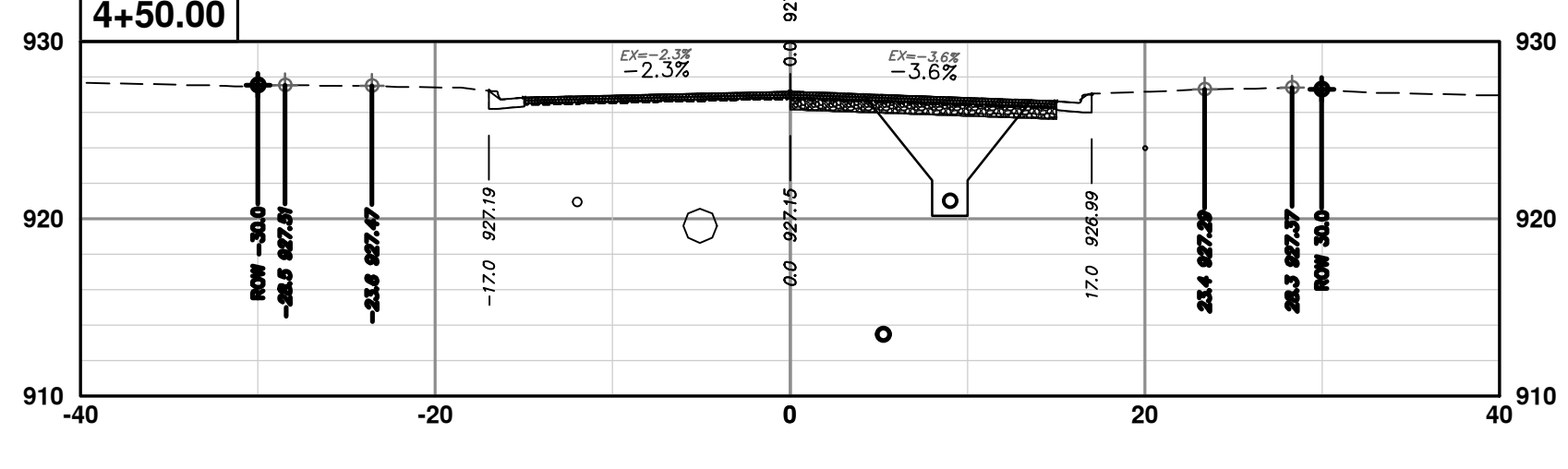
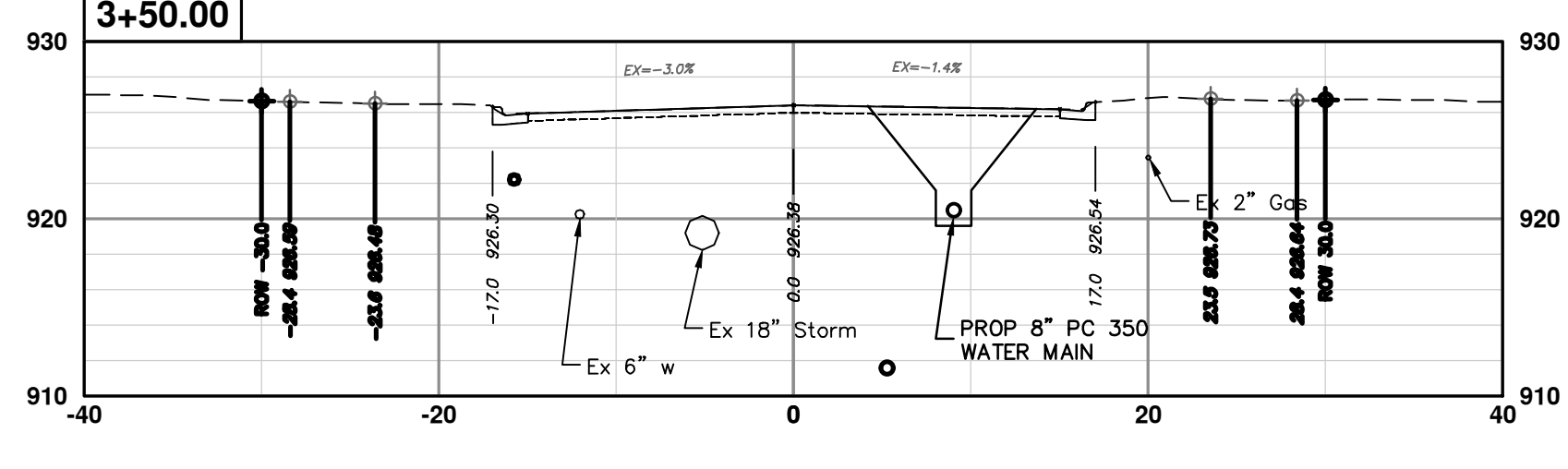
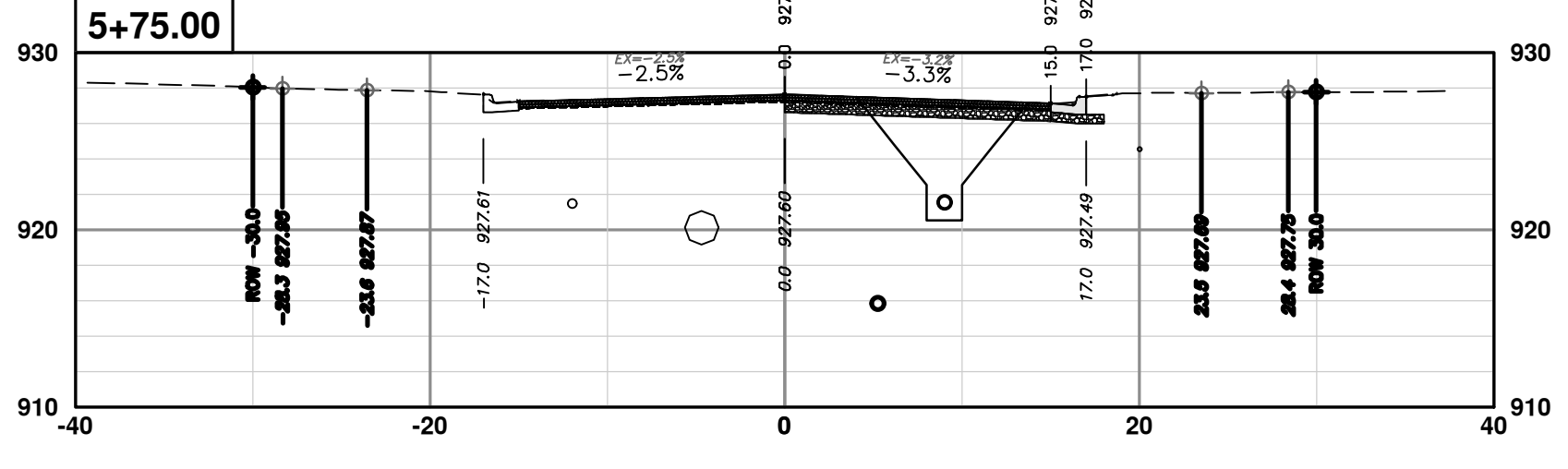
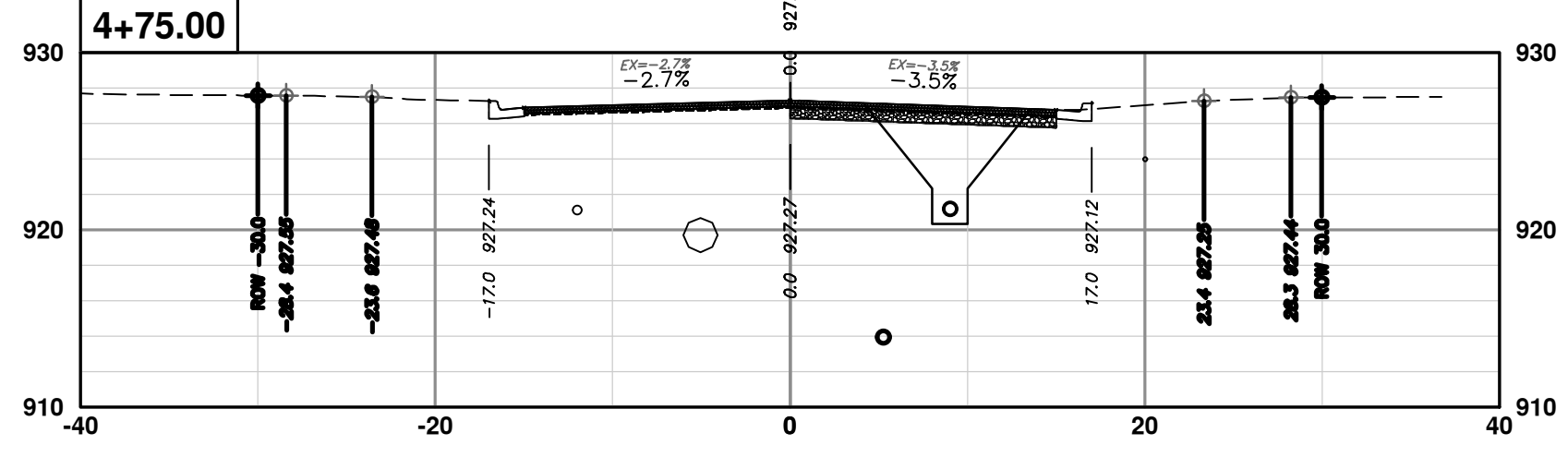
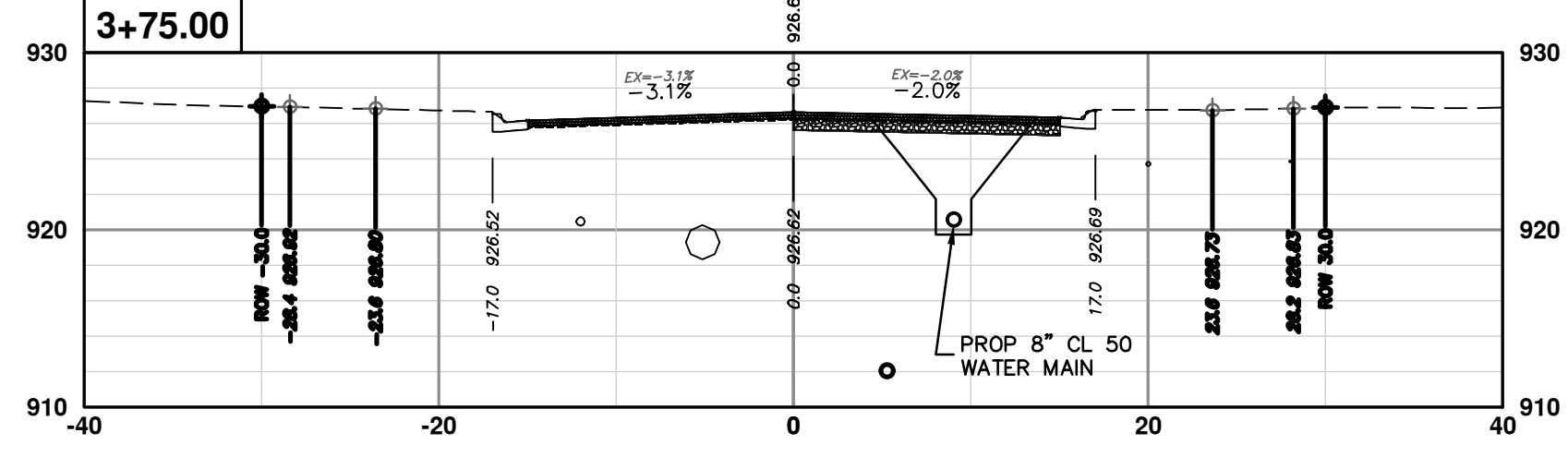
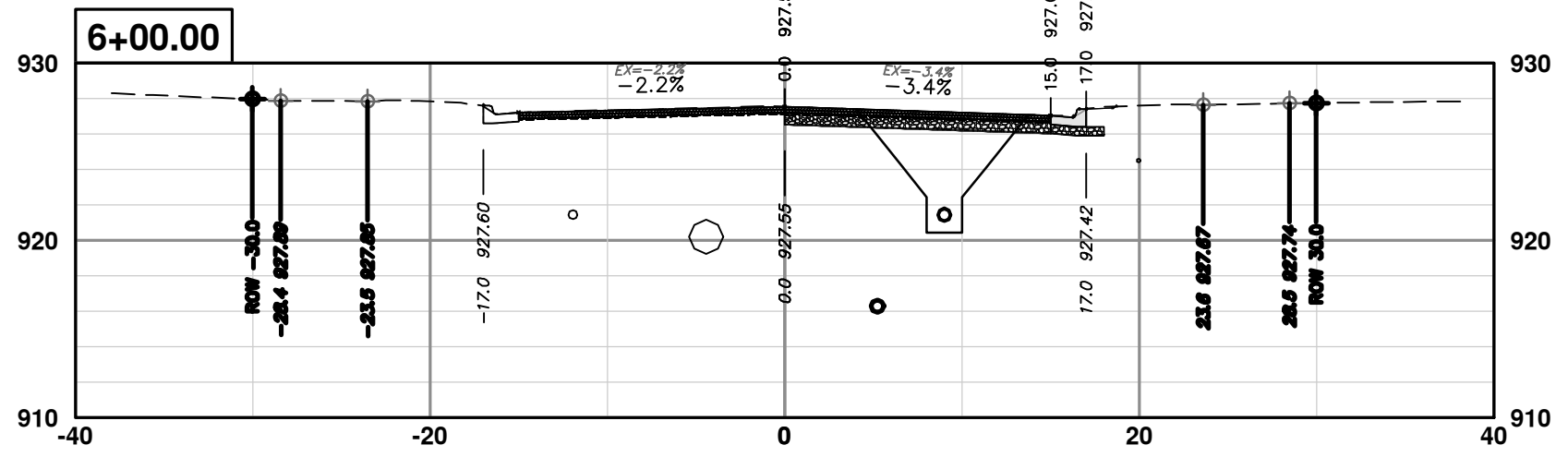
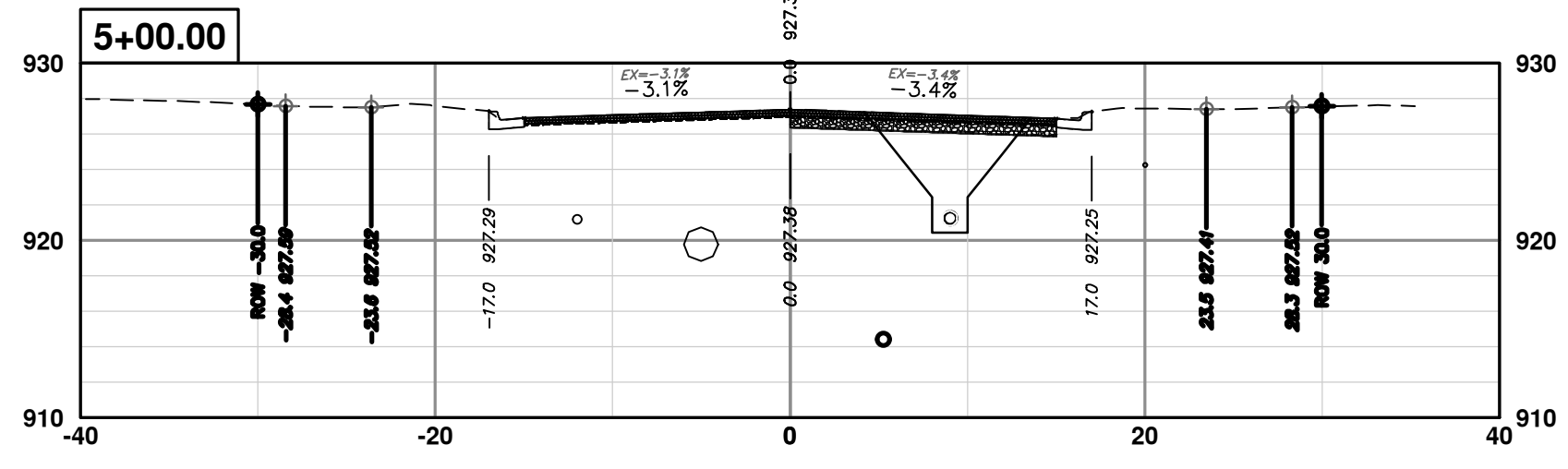
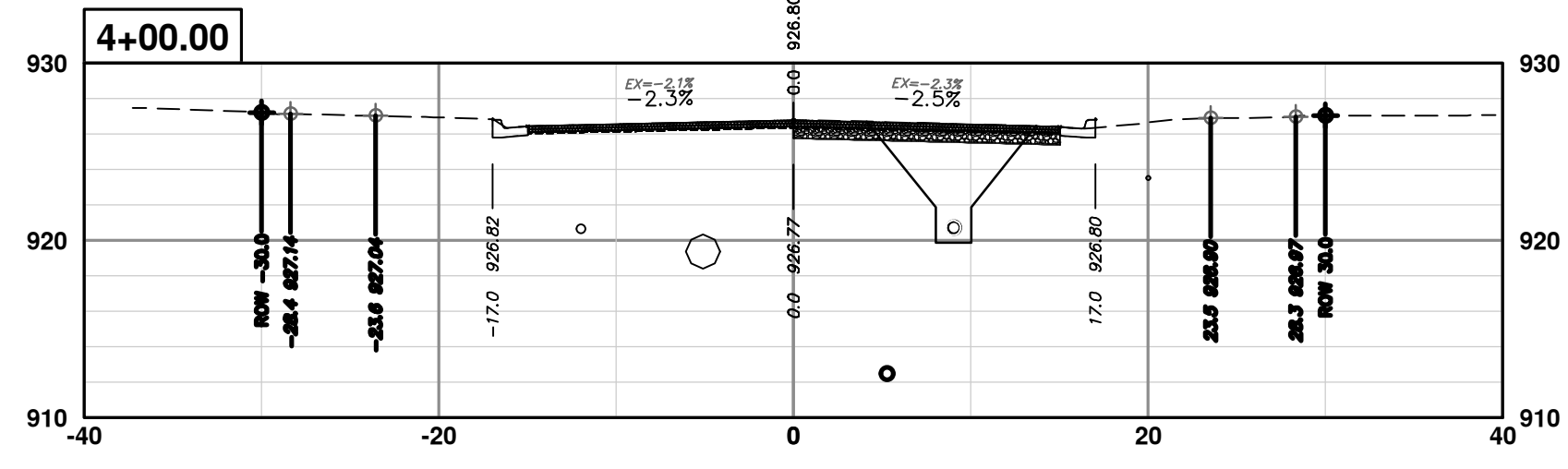
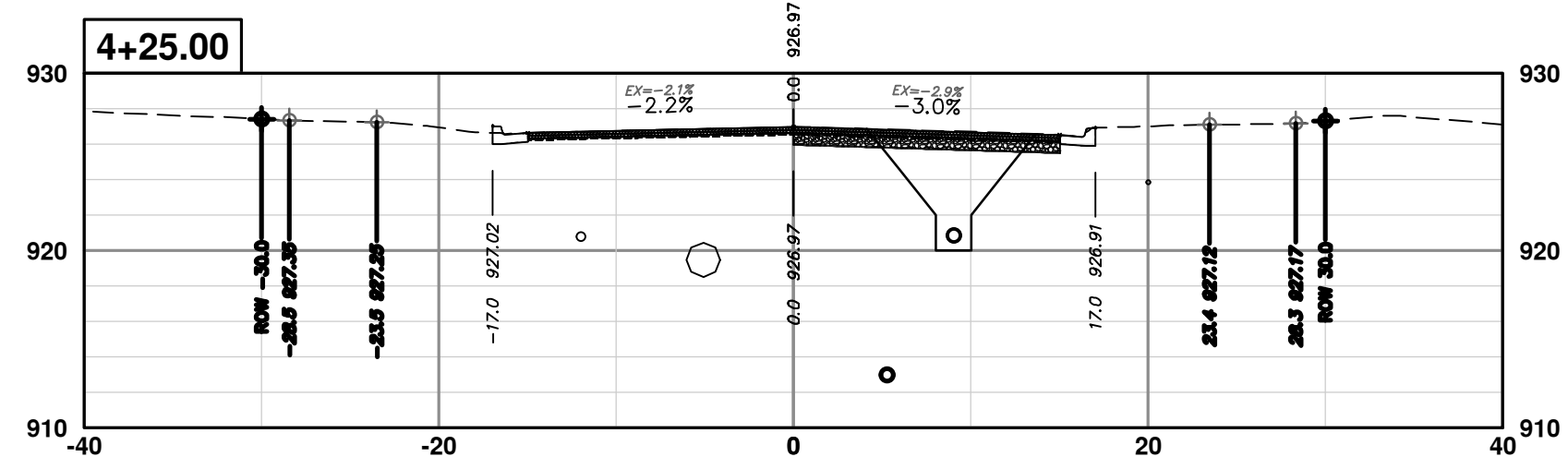
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**S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS**  
 CROSS-SECTIONS - GREENVIEW DRIVE SOUTH  
 STA. 3+50 - STA. 6+25

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

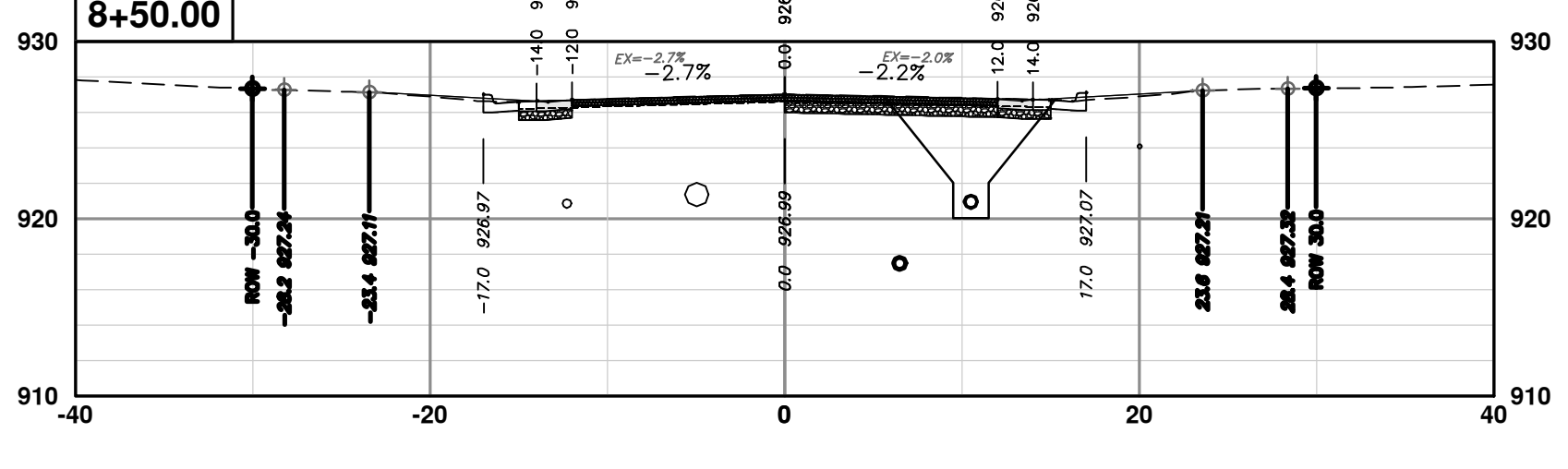
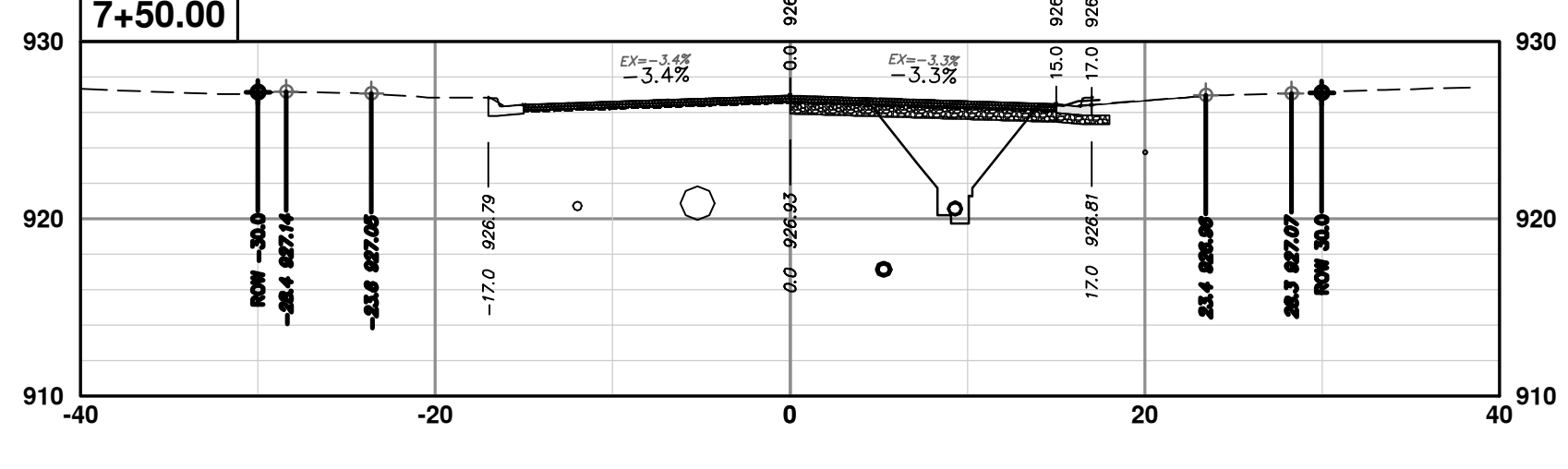
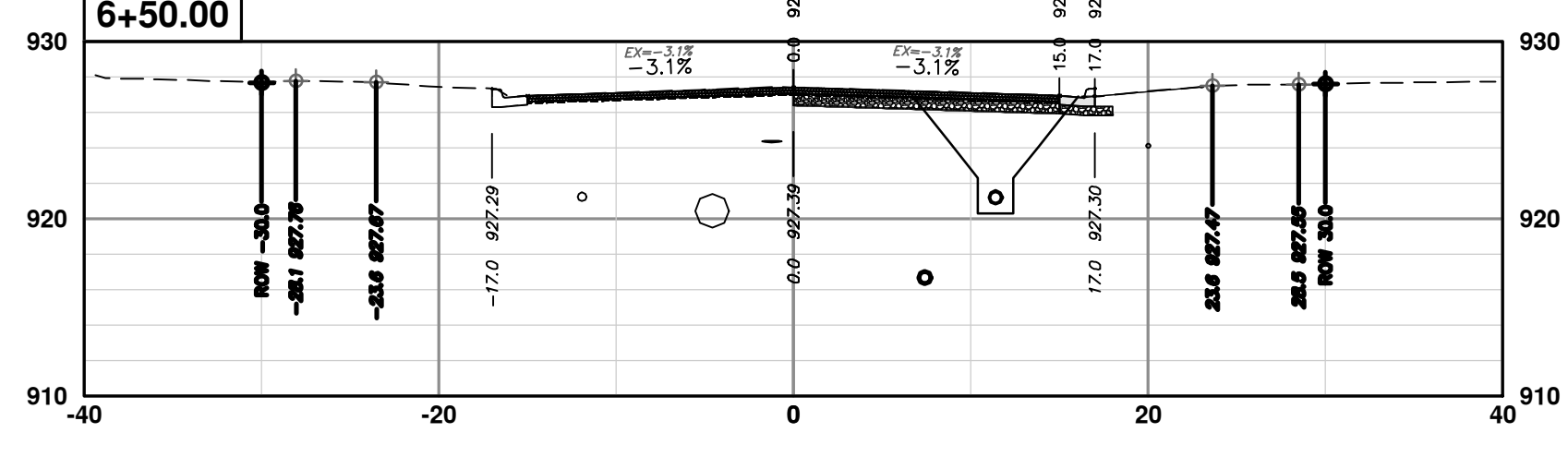
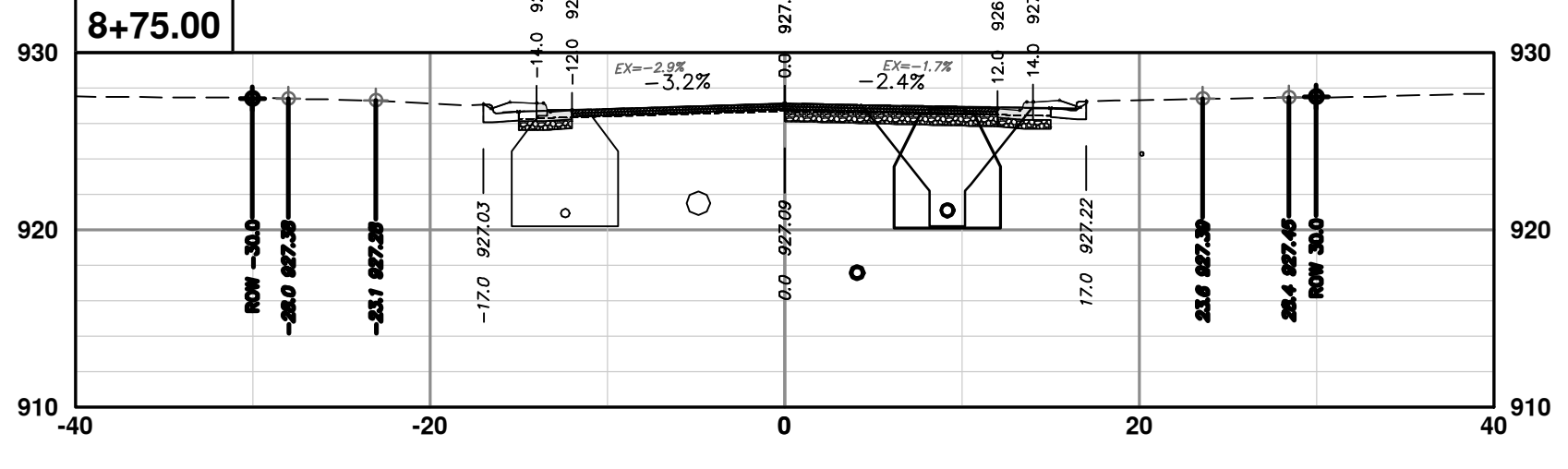
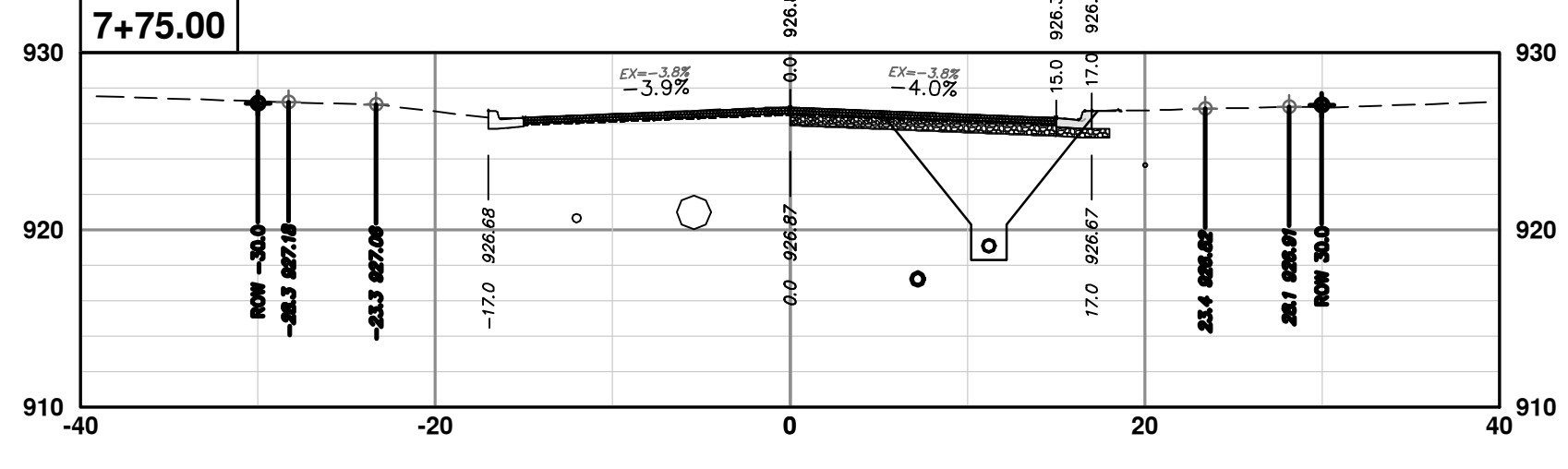
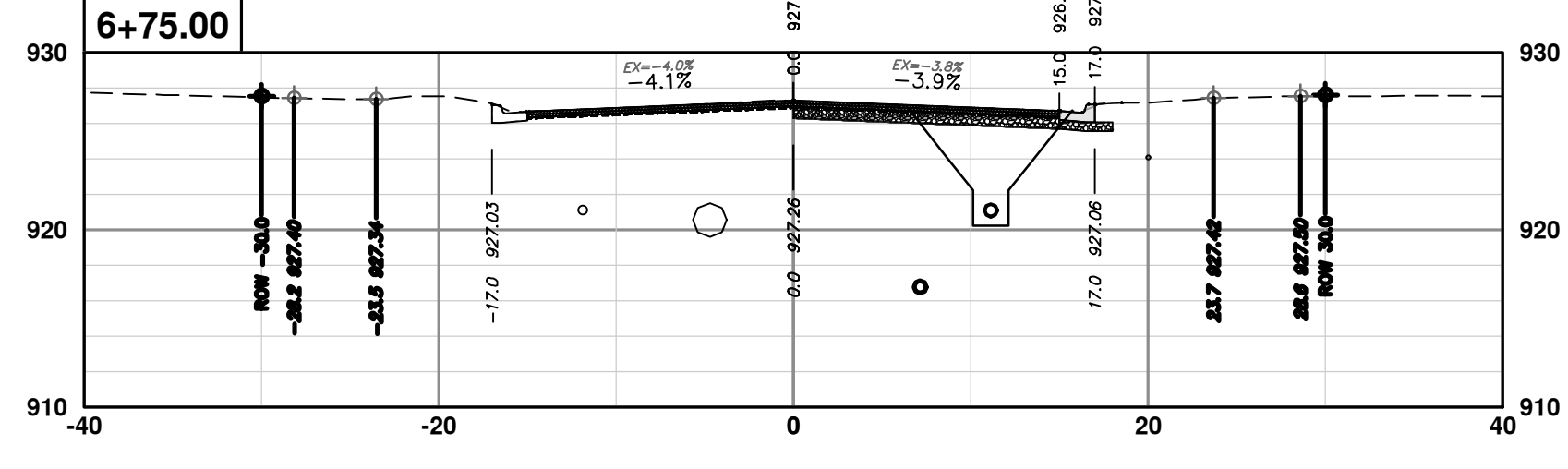
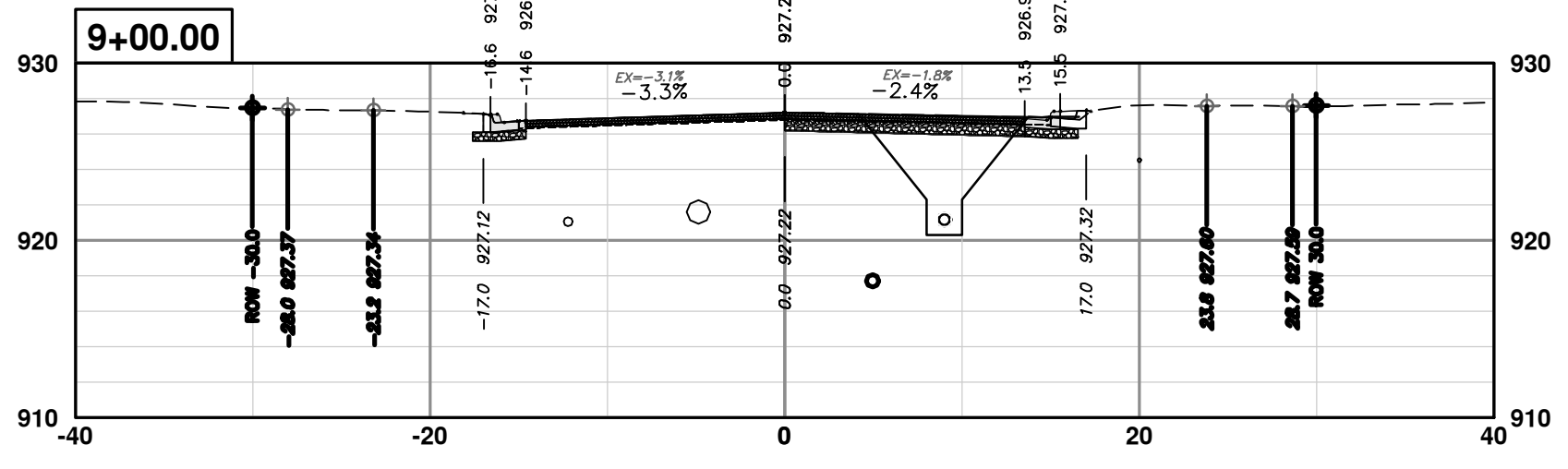
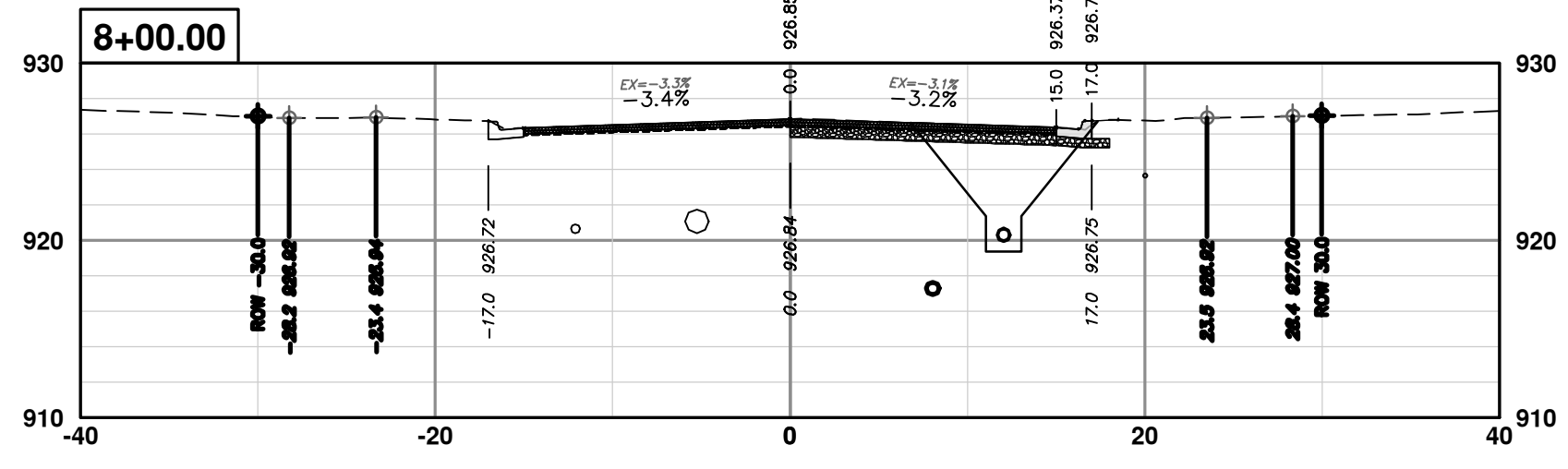
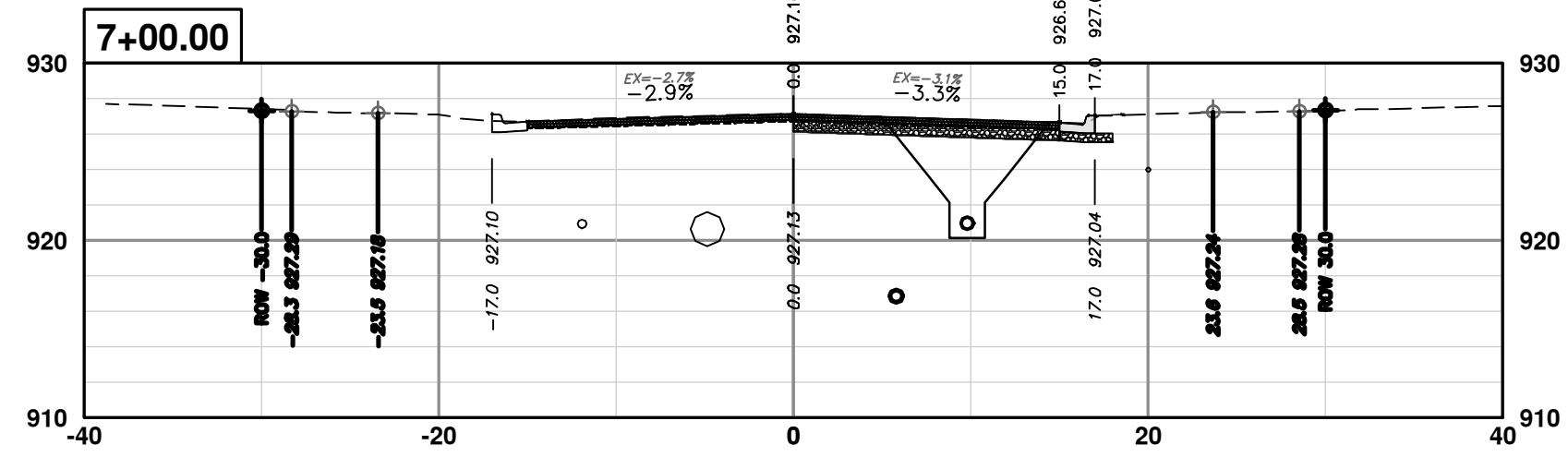
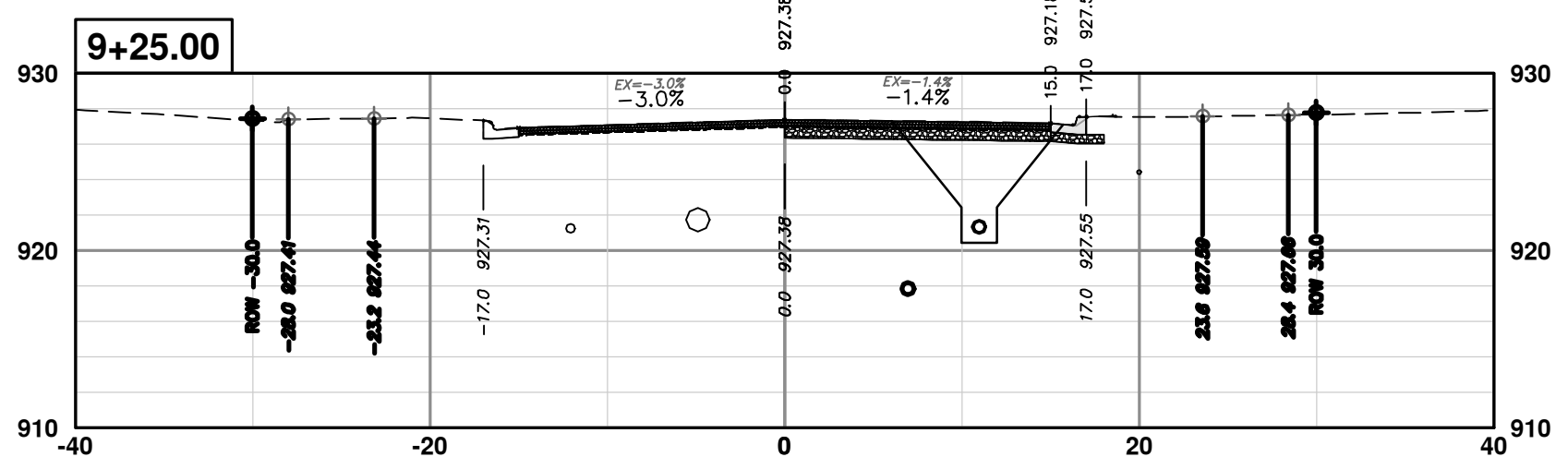
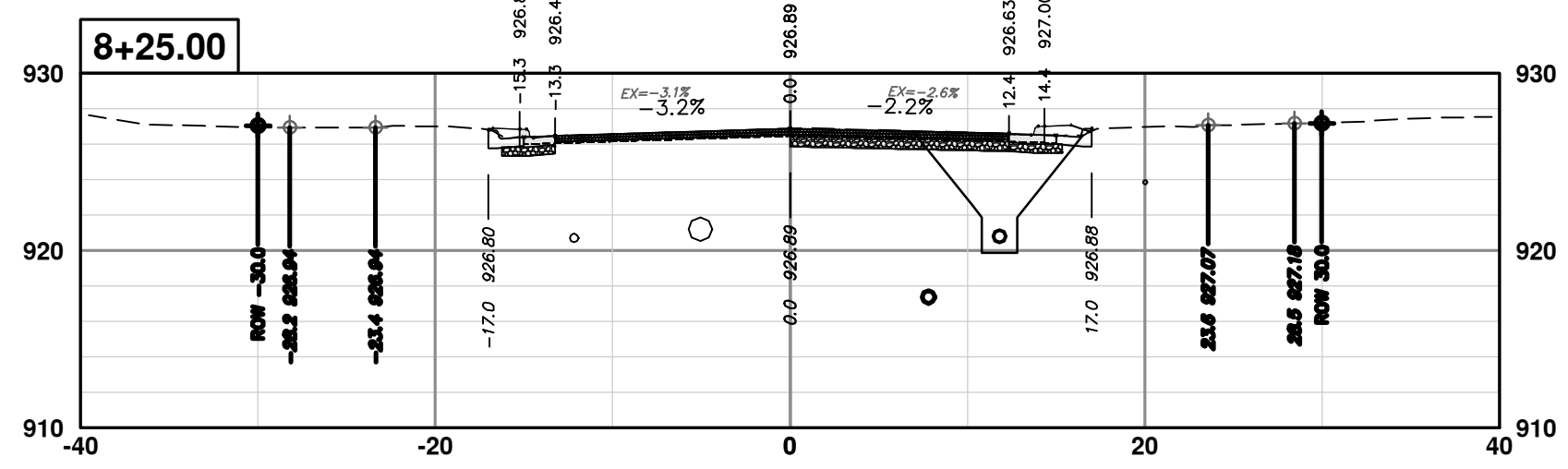
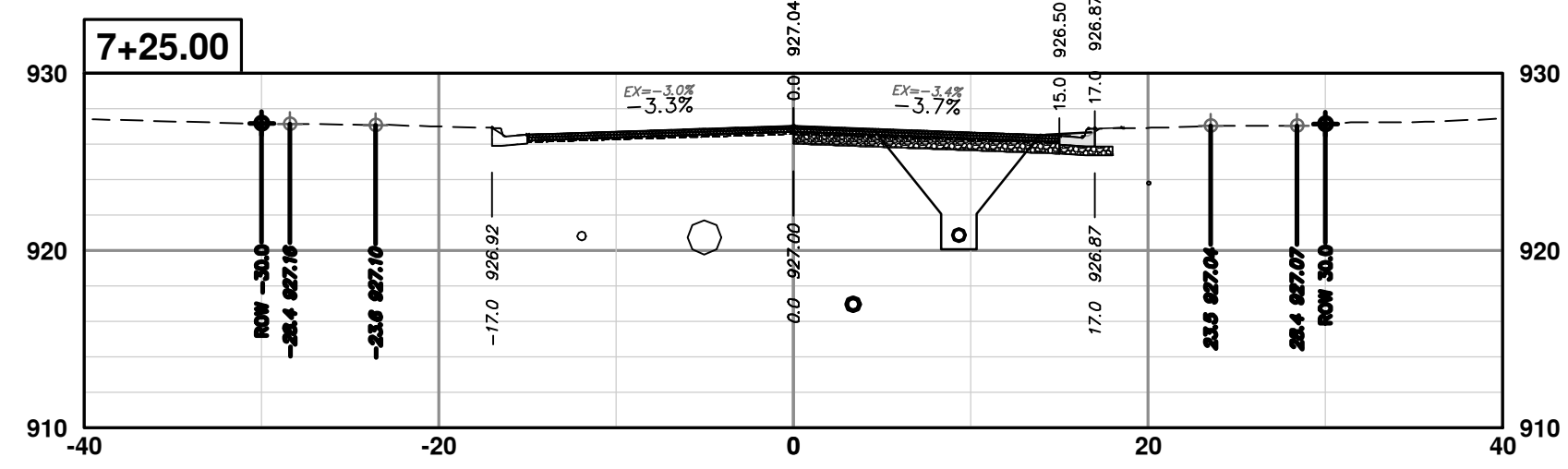
DRAWING No. 2020031-80  
 SHEET No. 80 OF 92

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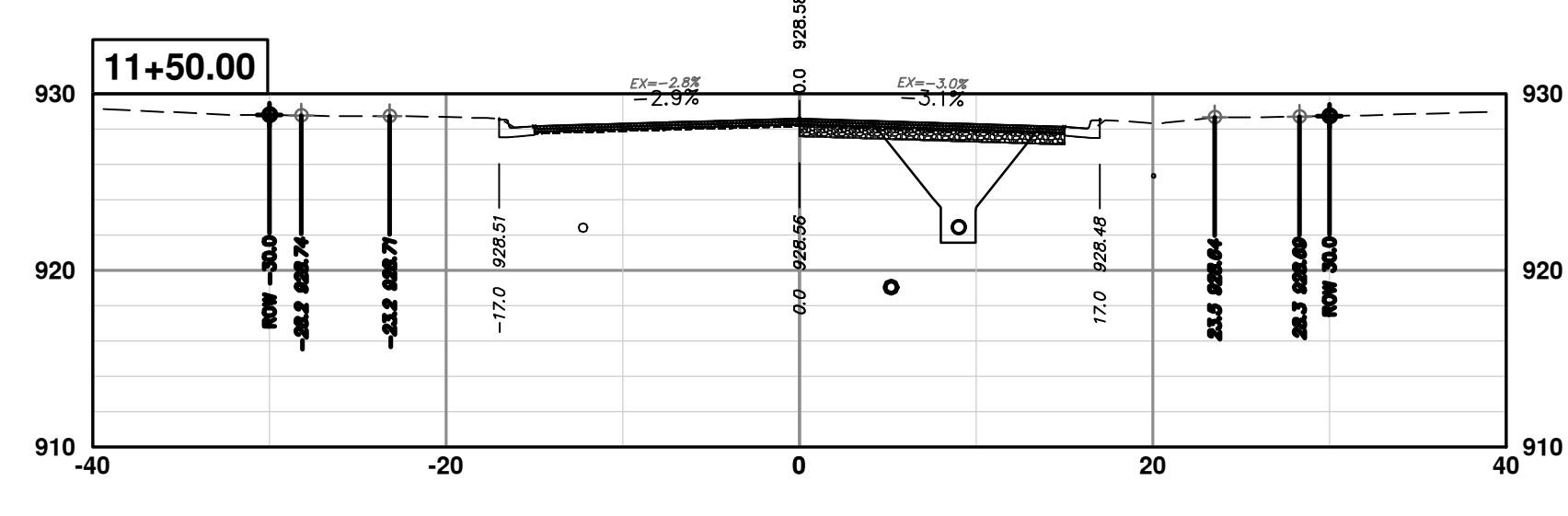
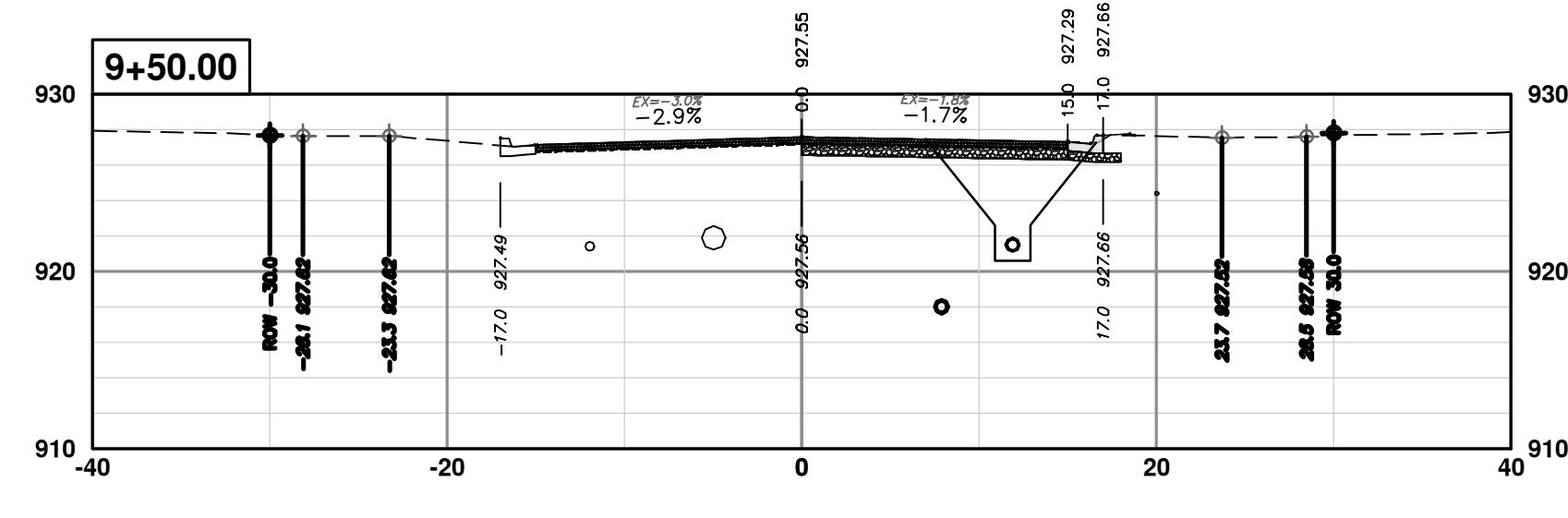
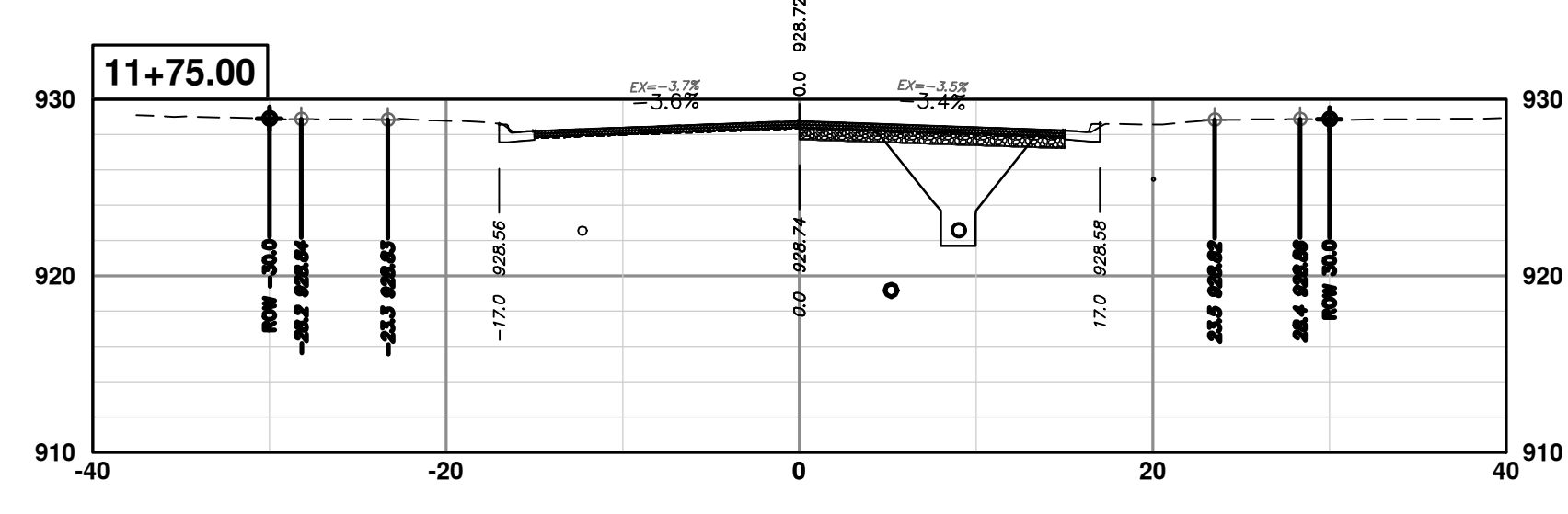
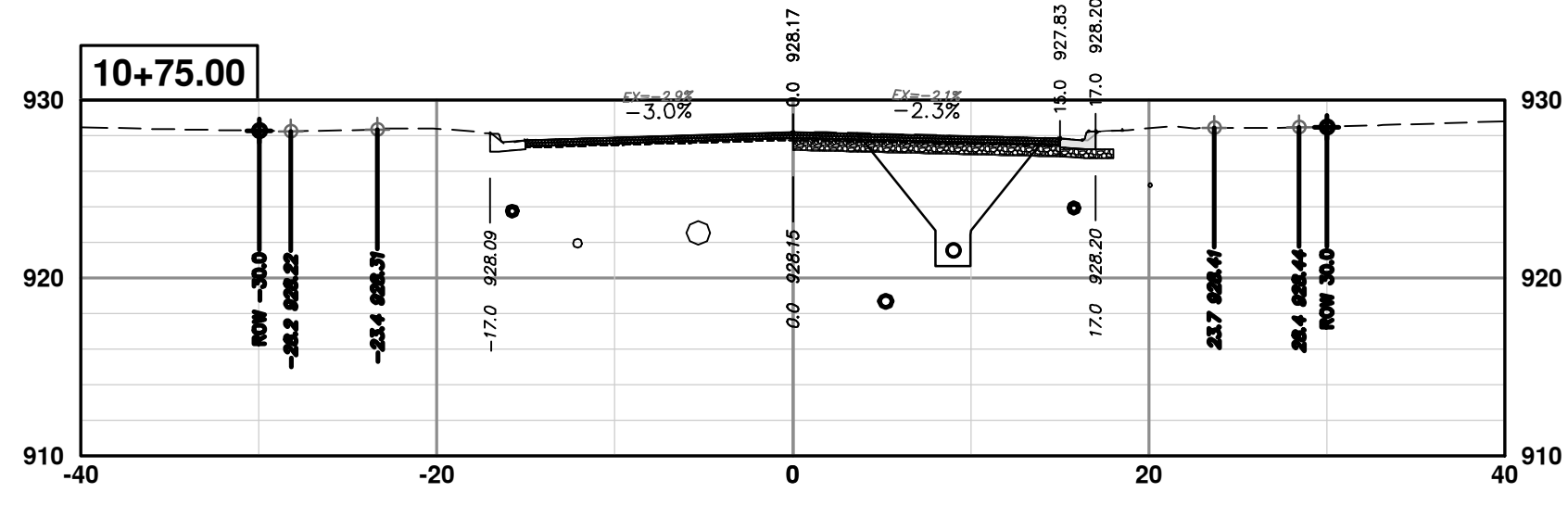
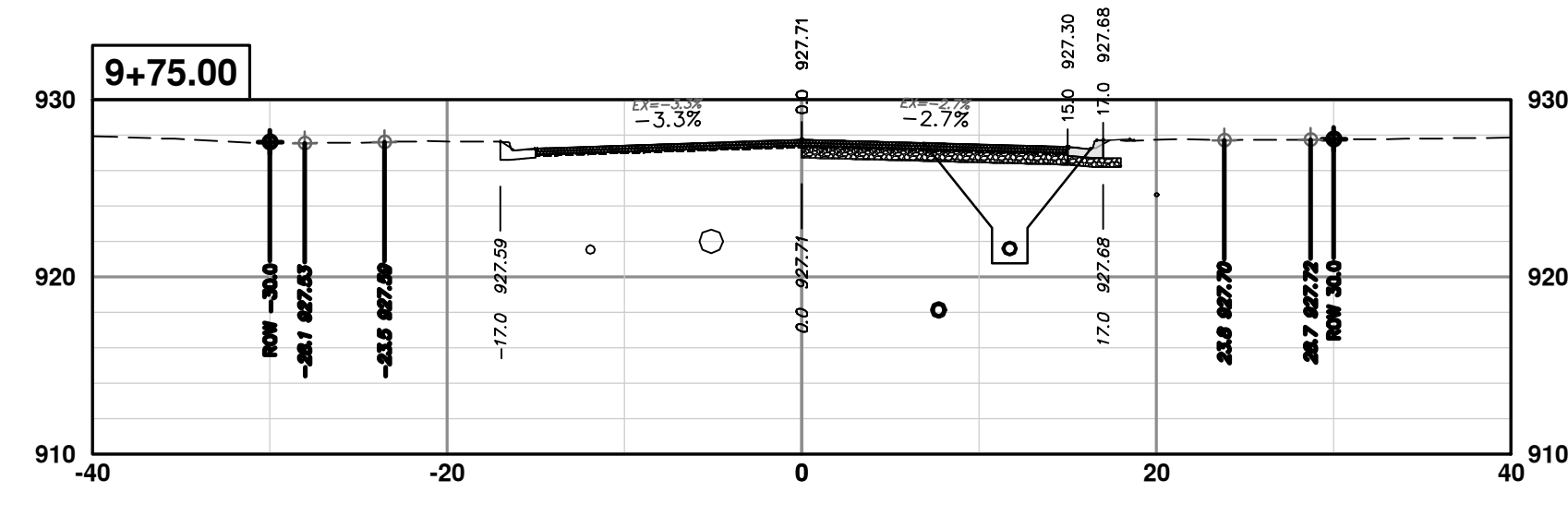
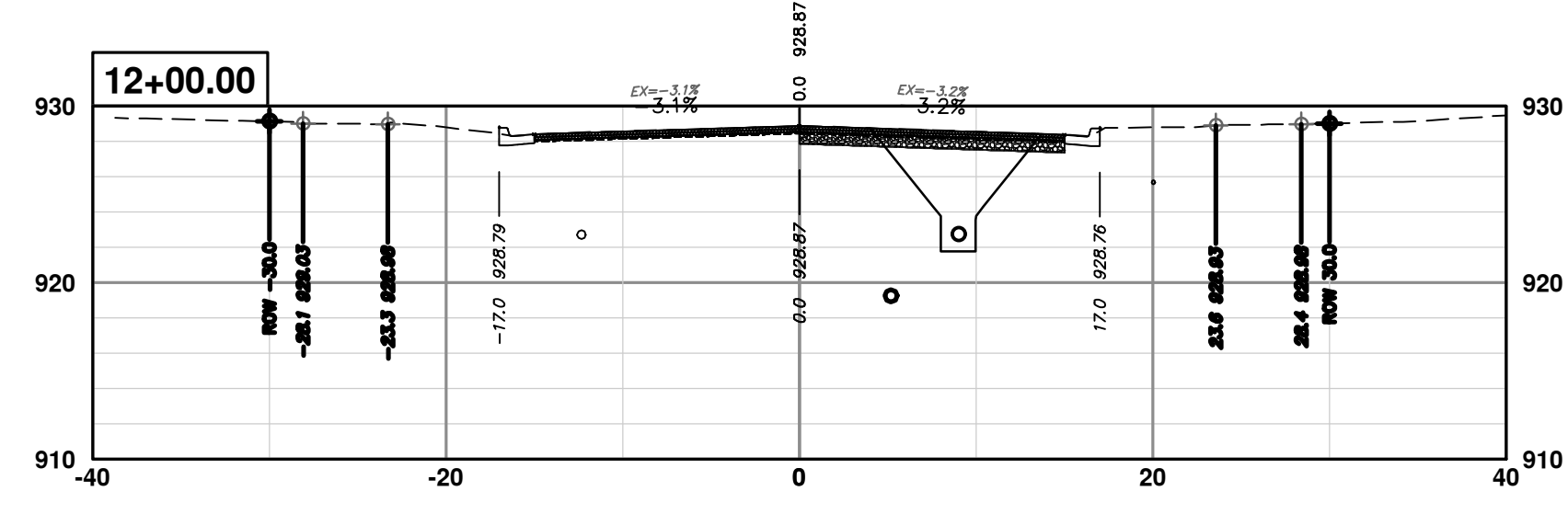
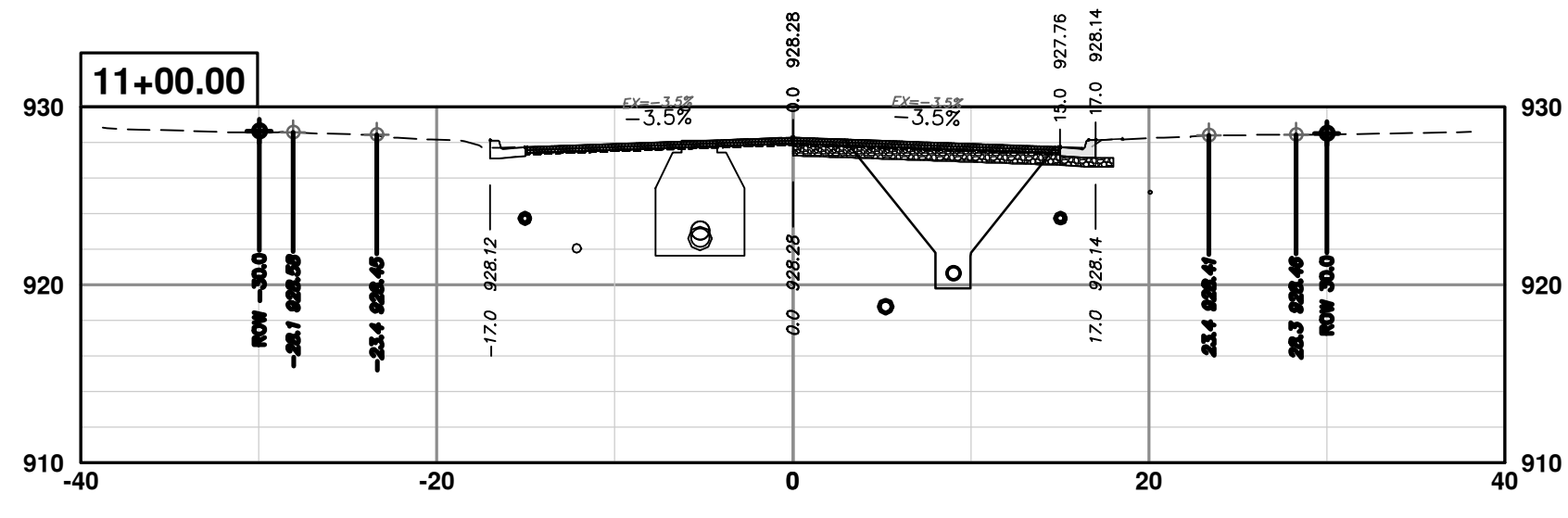
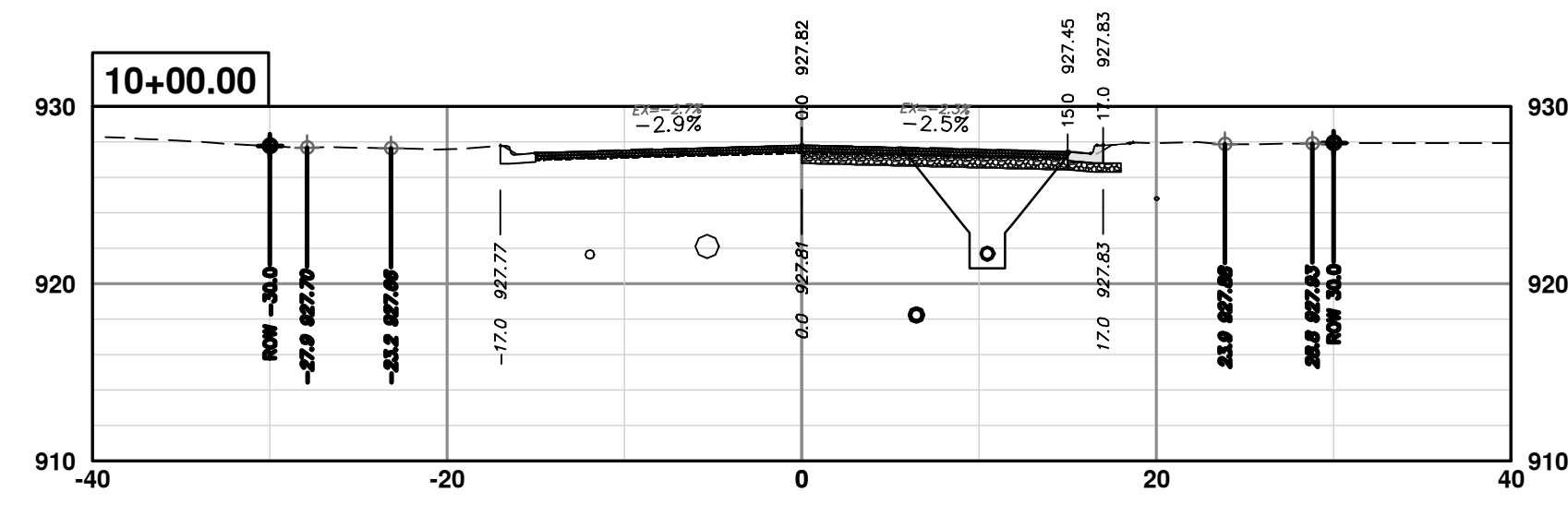
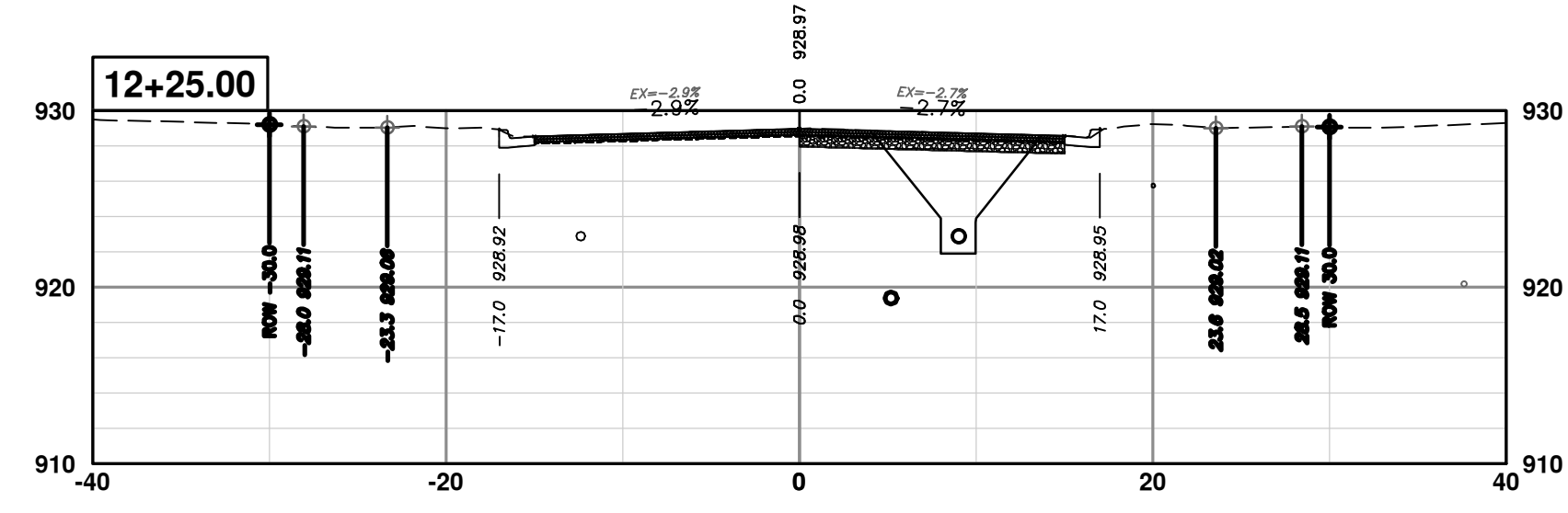
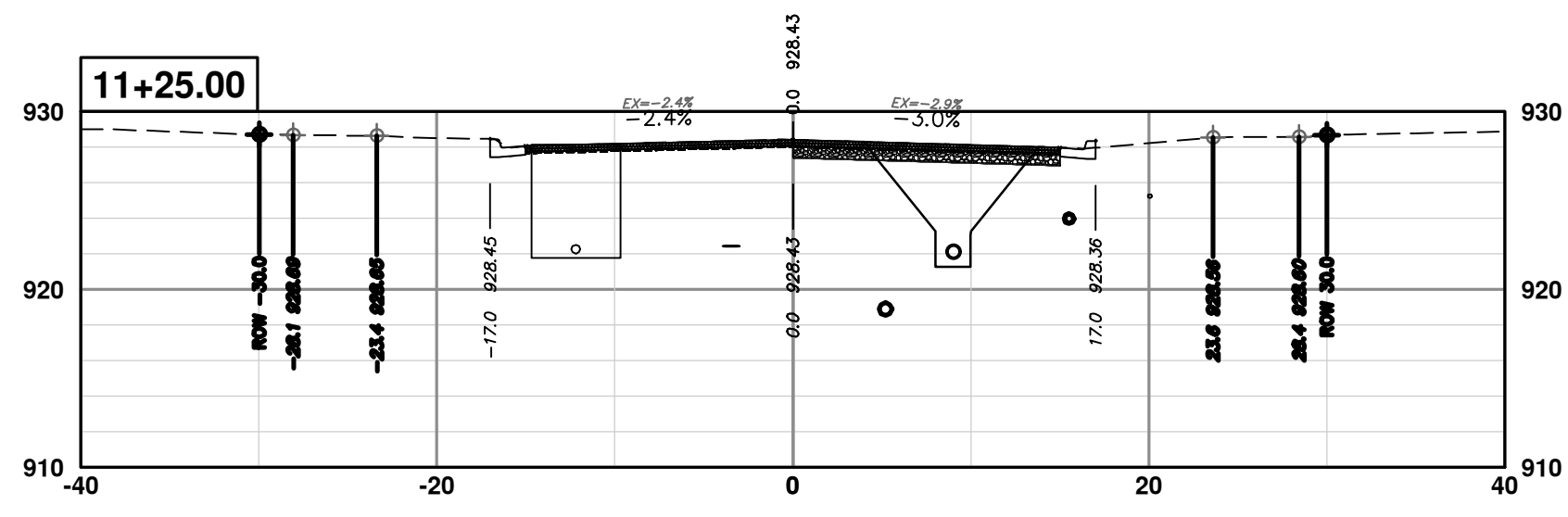
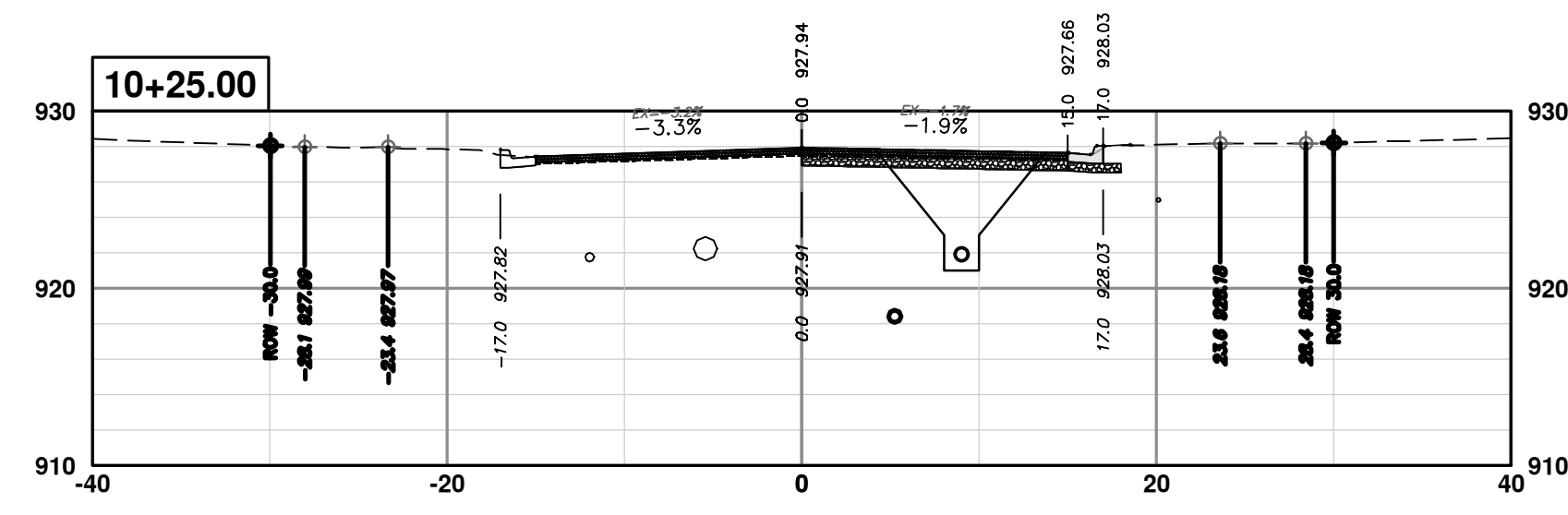
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00	BID SET	1-30-24	AZD	TA

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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING  
S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS  
CROSS-SECTIONS - GREENVIEW DRIVE SOUTH  
STA. 6+50 - STA. 9+25



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



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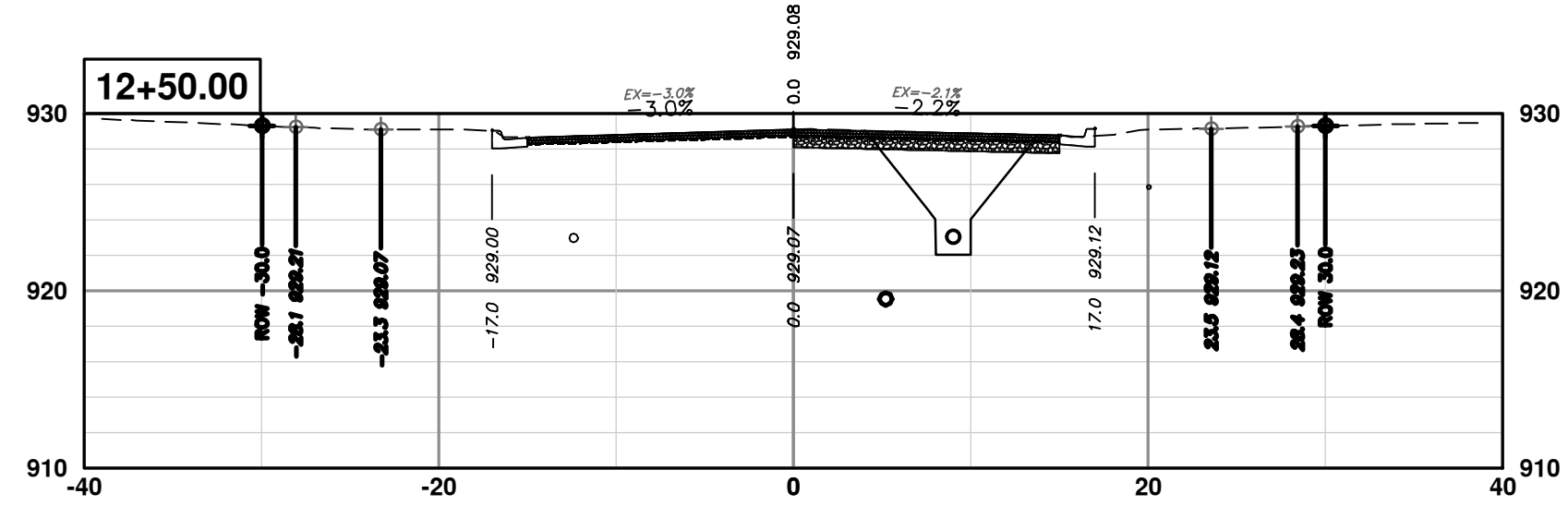
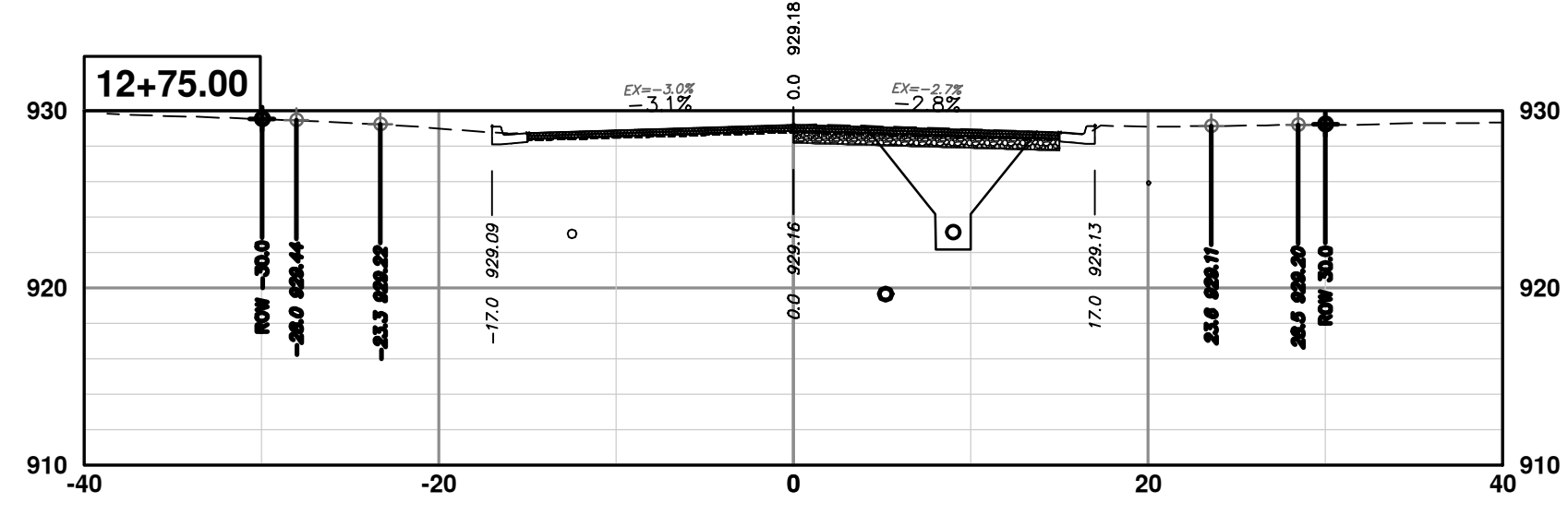
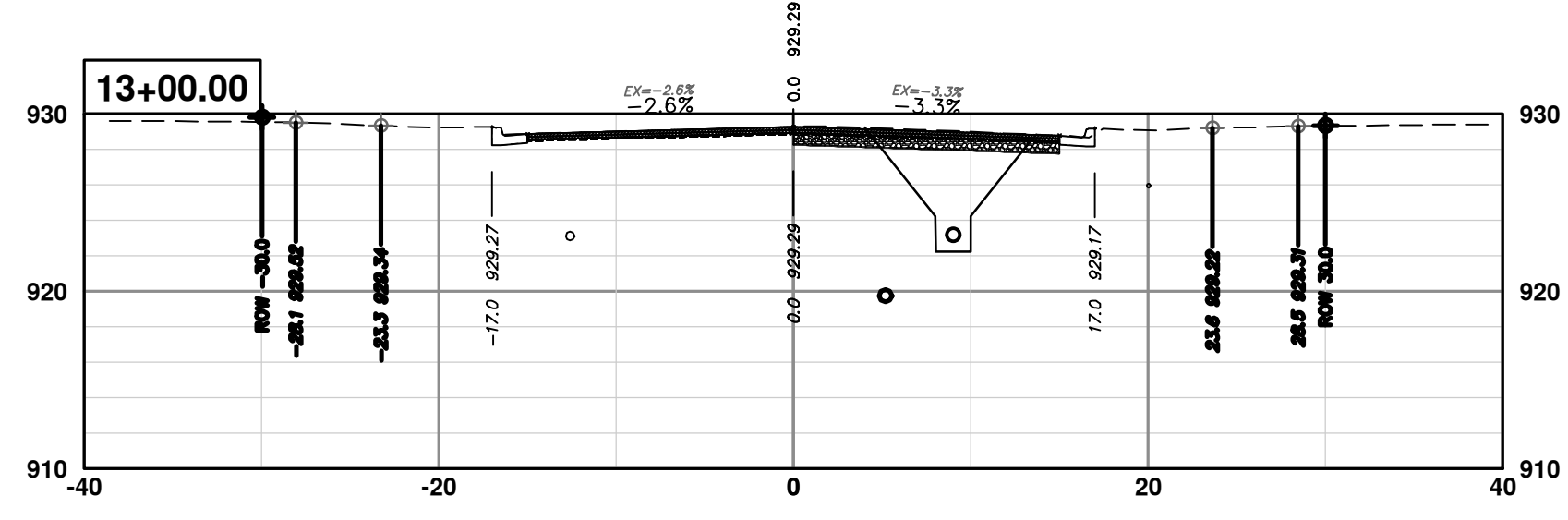


**CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING**  
**S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS**  
CROSS-SECTIONS - GREENVIEW DRIVE SOUTH  
STA. 9+50 - STA. 12+25

SCALE PLAN: 1" = 10'  
PROFILE: 1" = 10'  
DRAWING No. 2020031-82

REV.	DESCRIPTION	DATE	BY	CHKD
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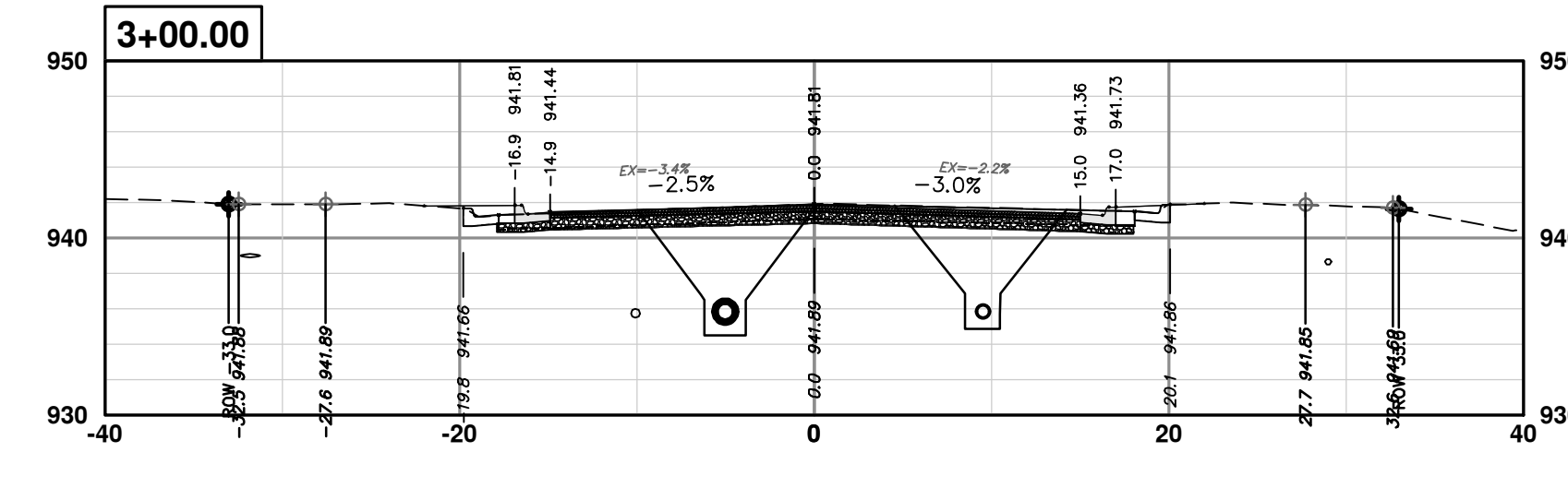
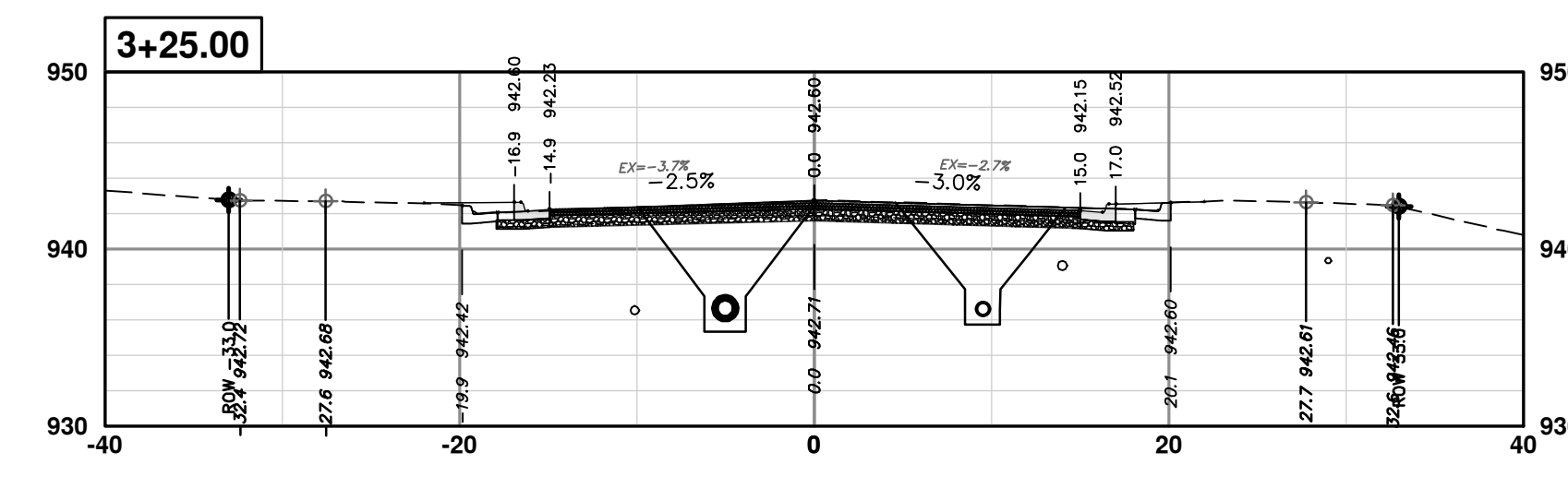
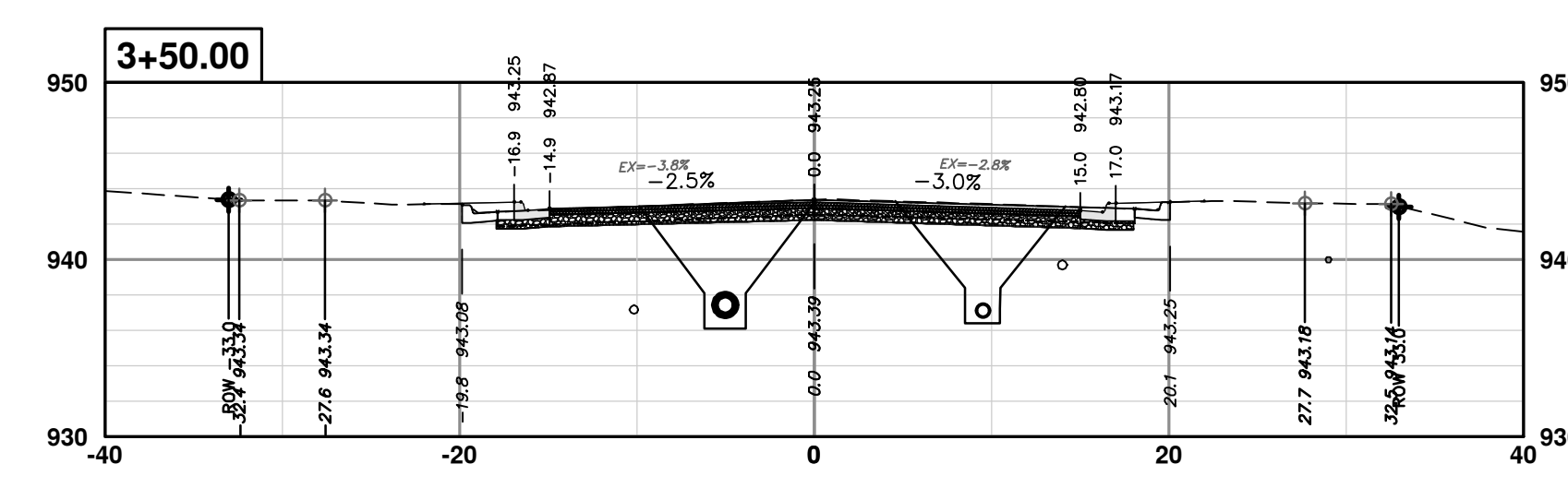
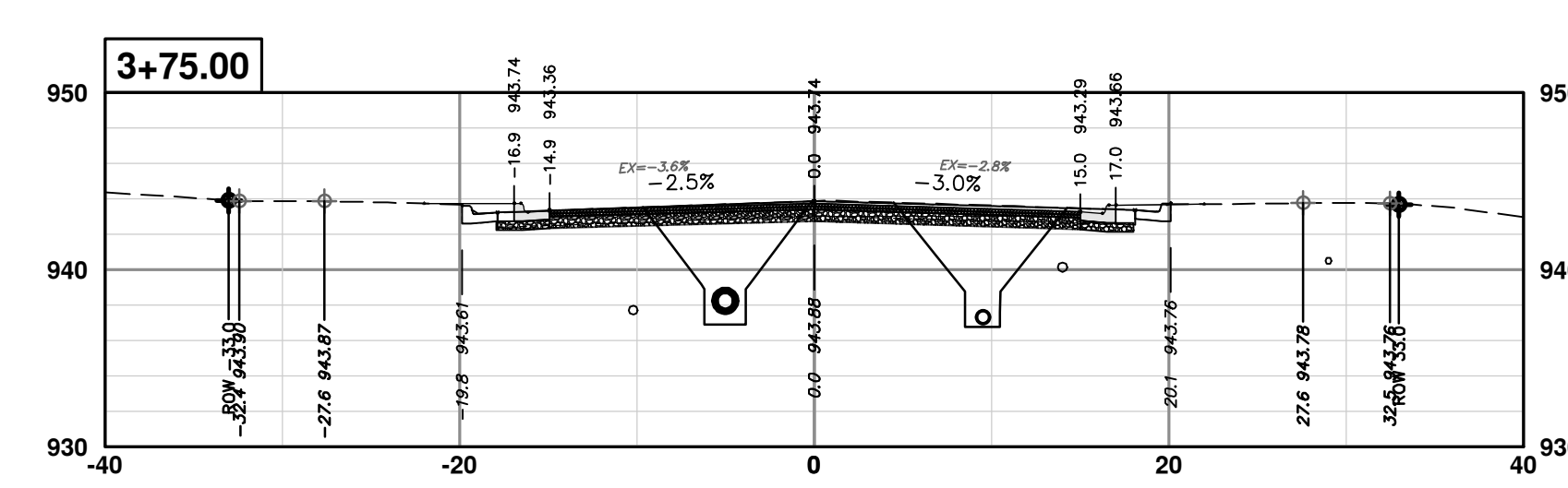
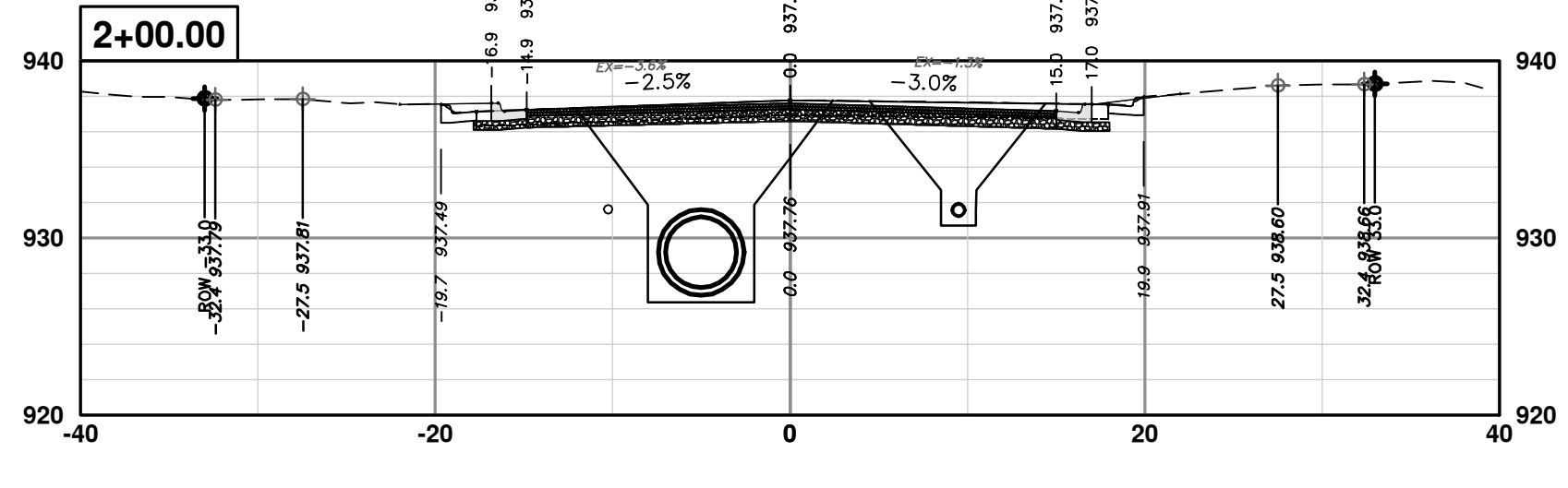
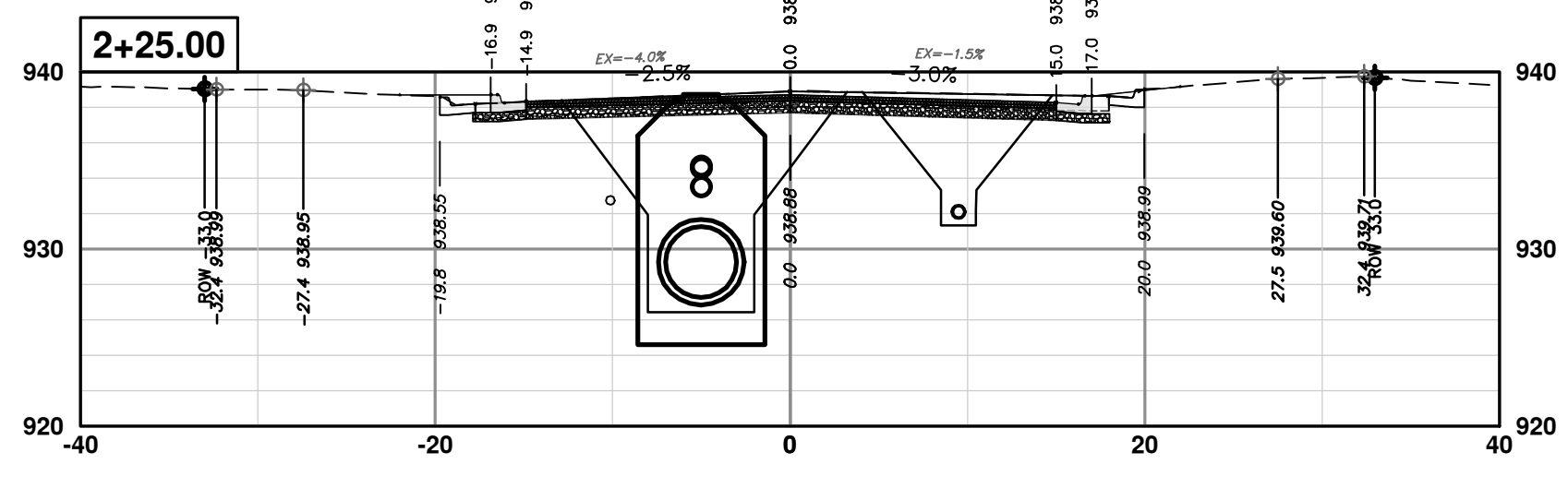
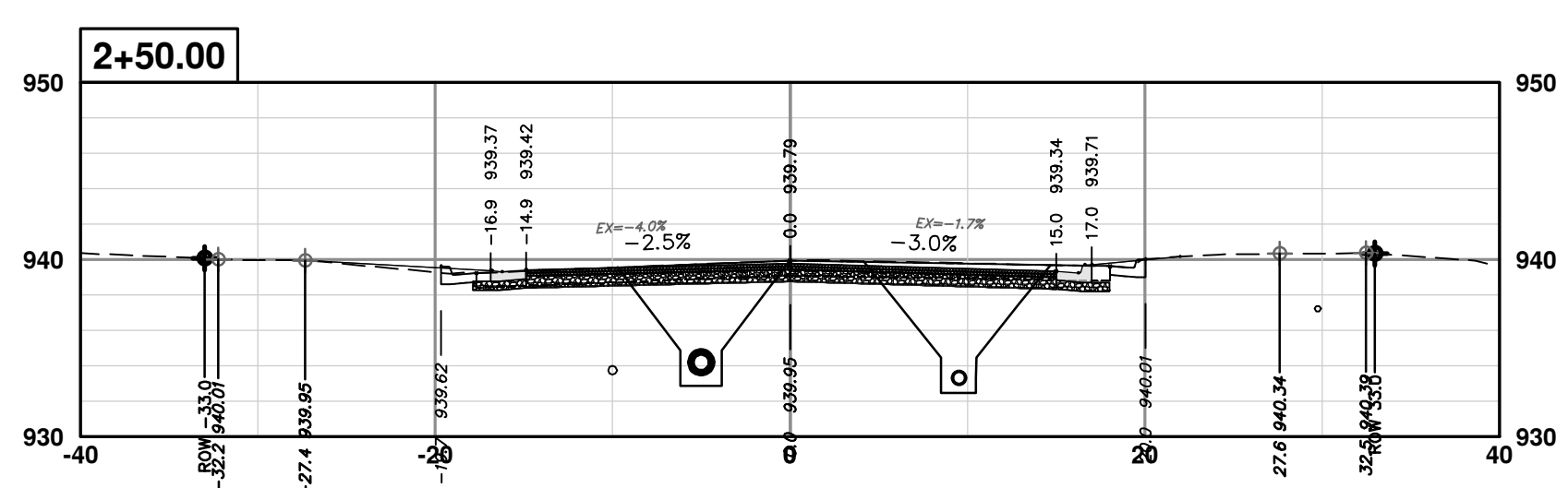
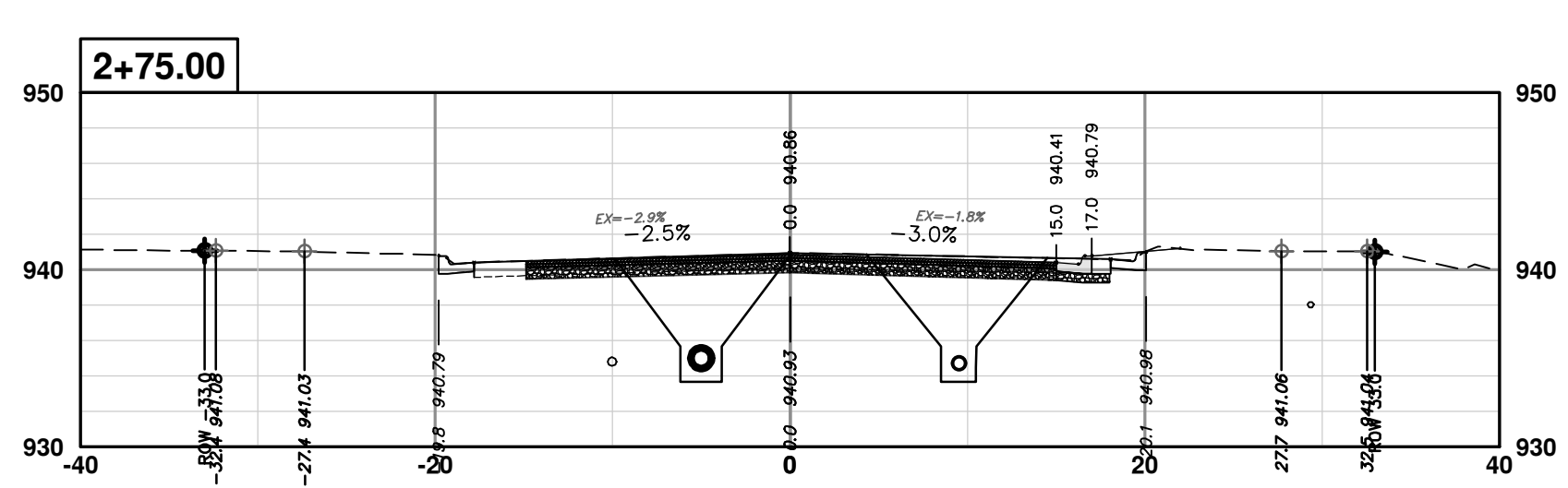
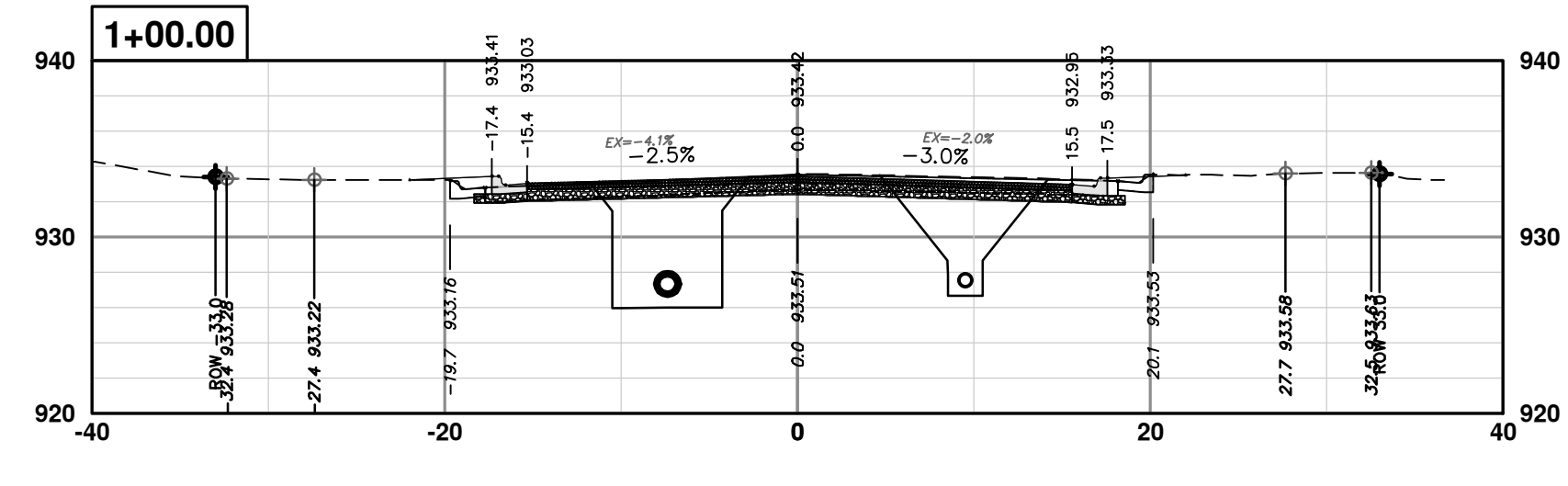
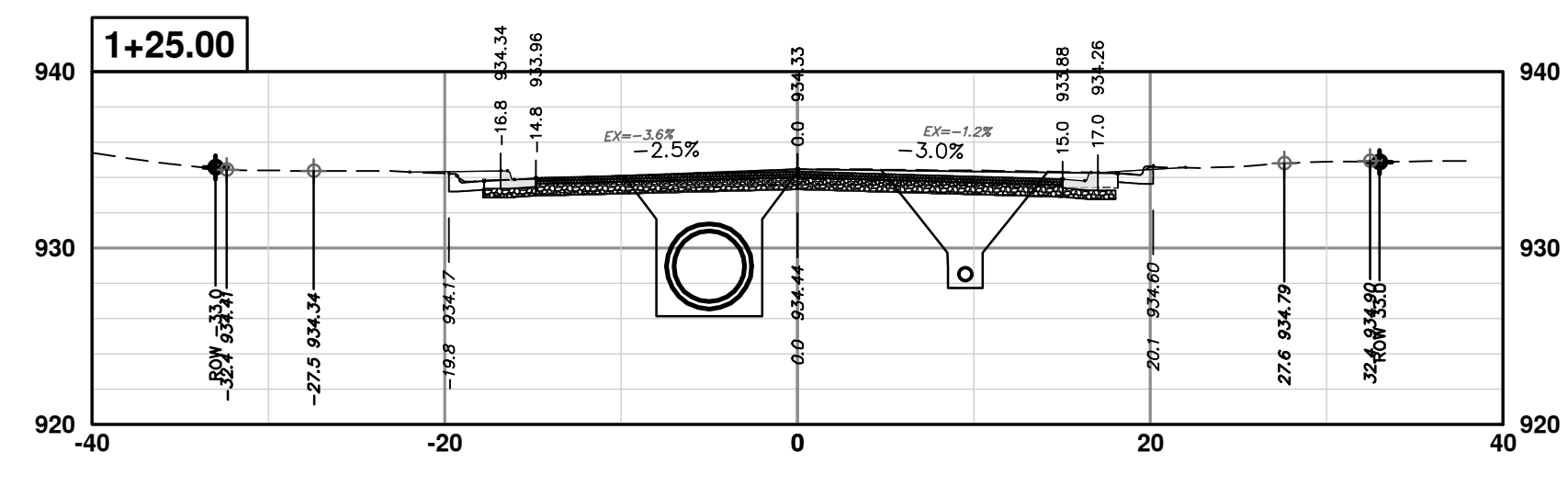
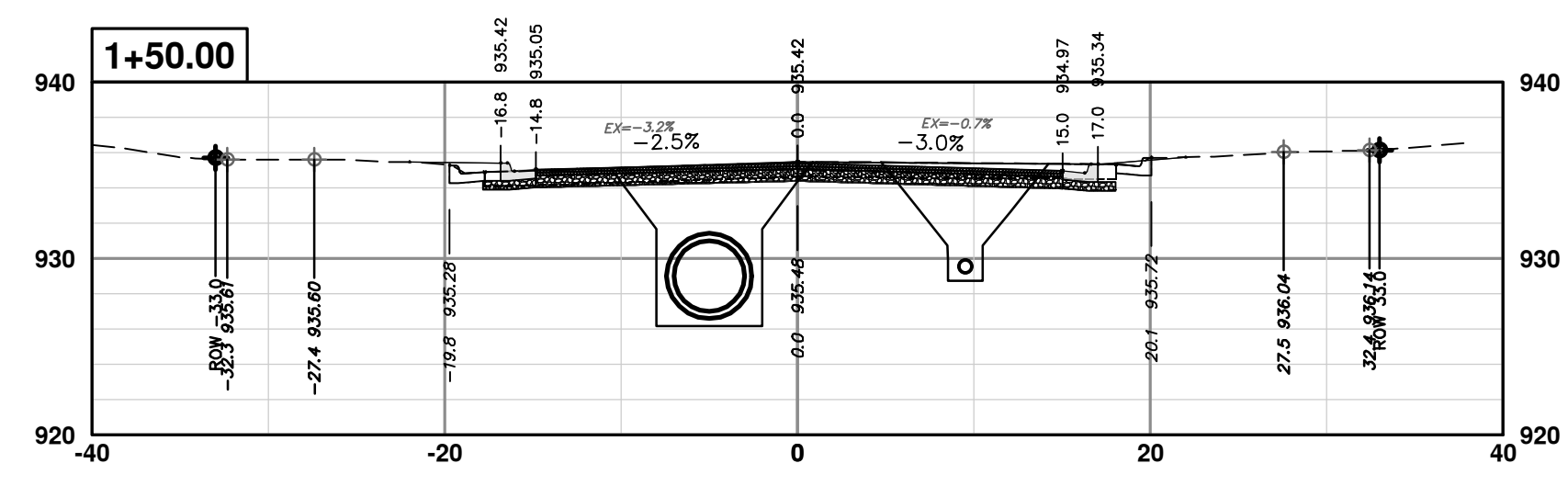
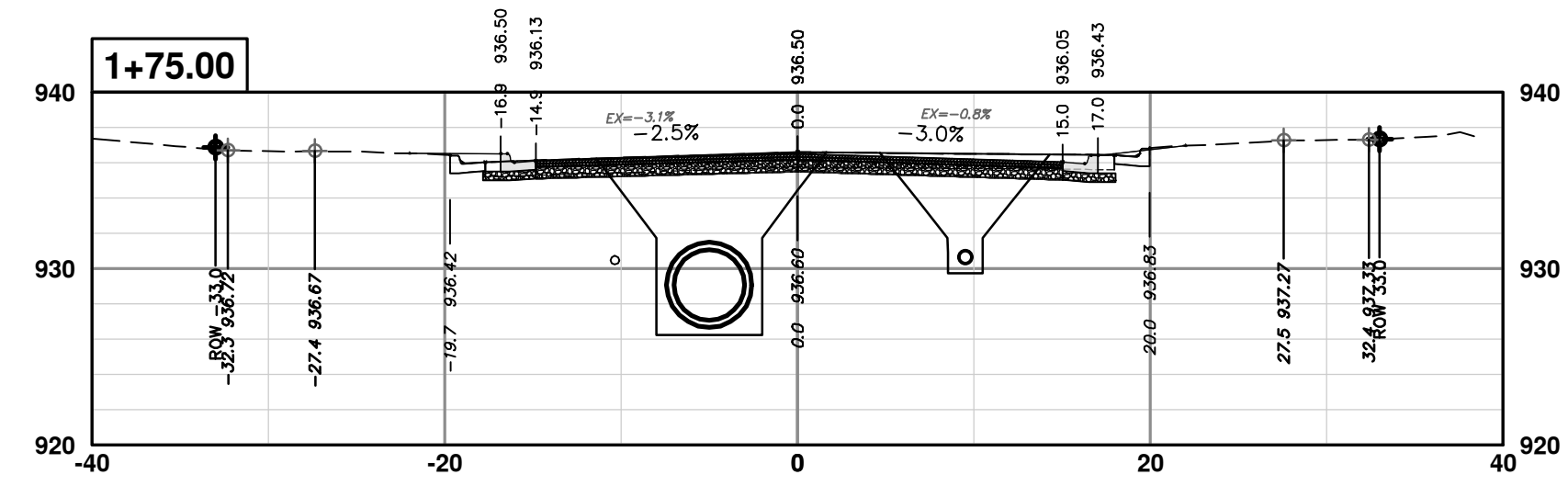
**CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING**  
**S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS**  
CROSS-SECTIONS - GREENVIEW DRIVE SOUTH  
STA. 12+50 - STA. 13+00

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

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



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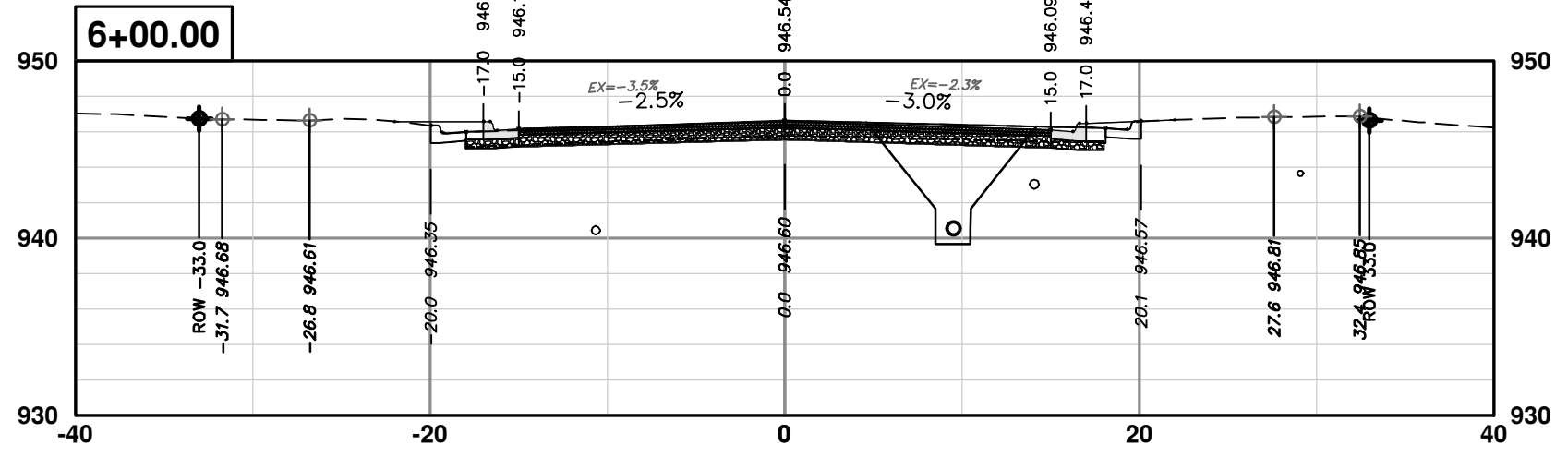
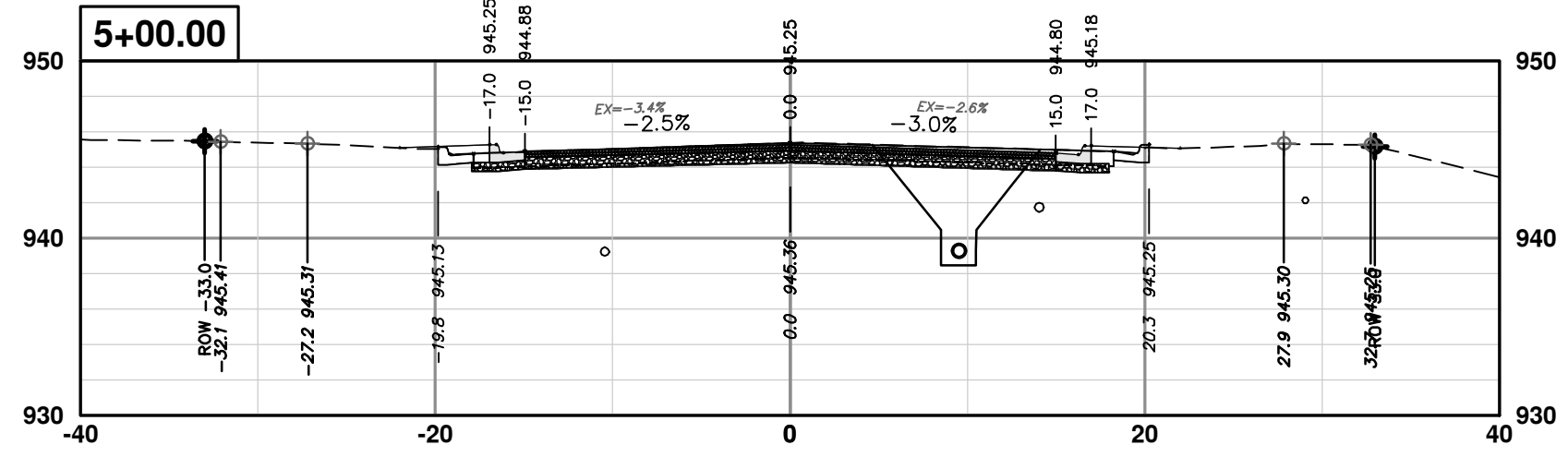
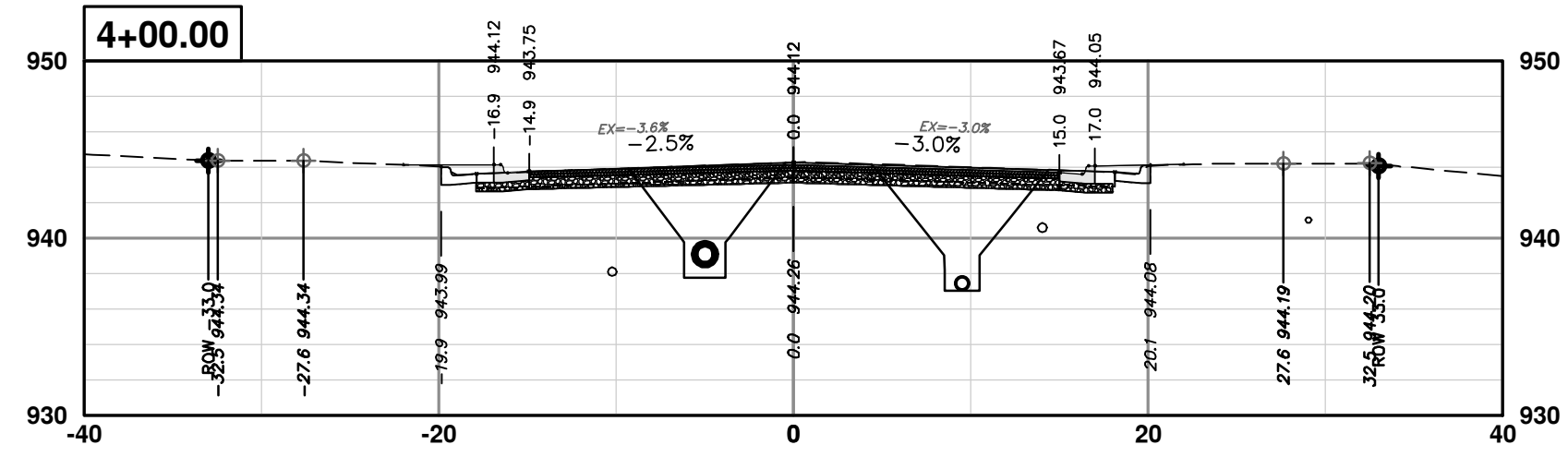
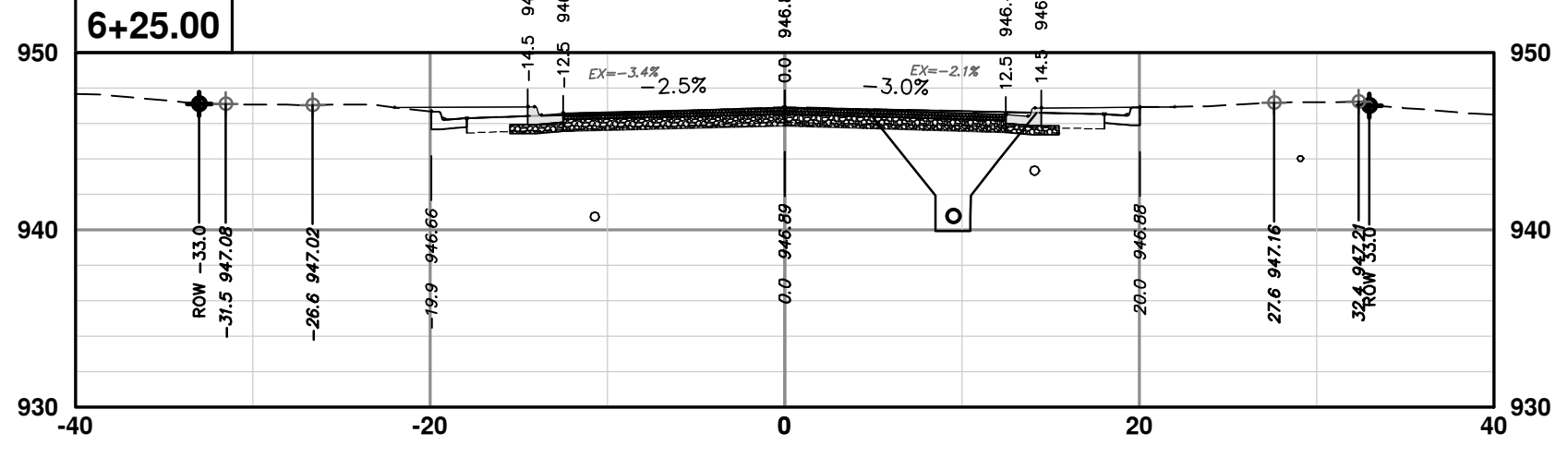
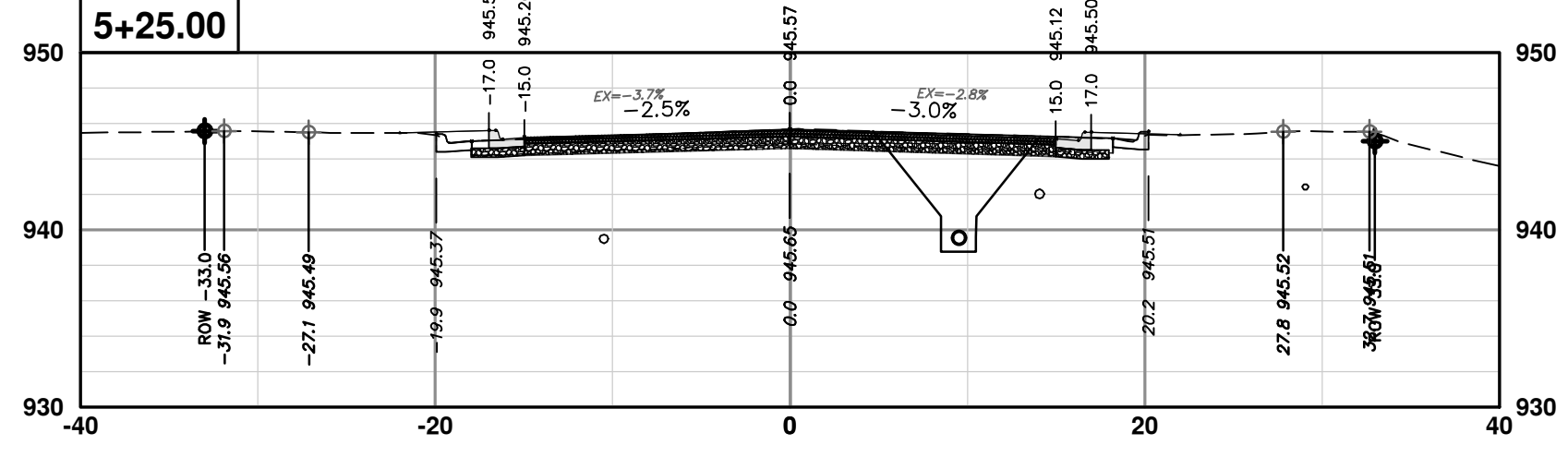
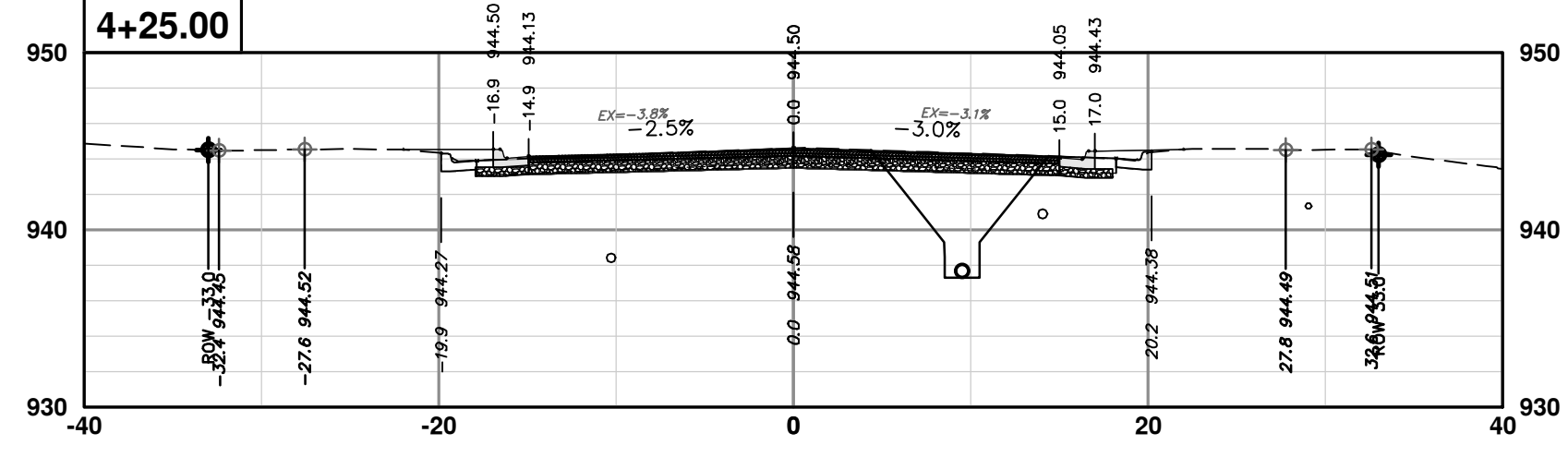
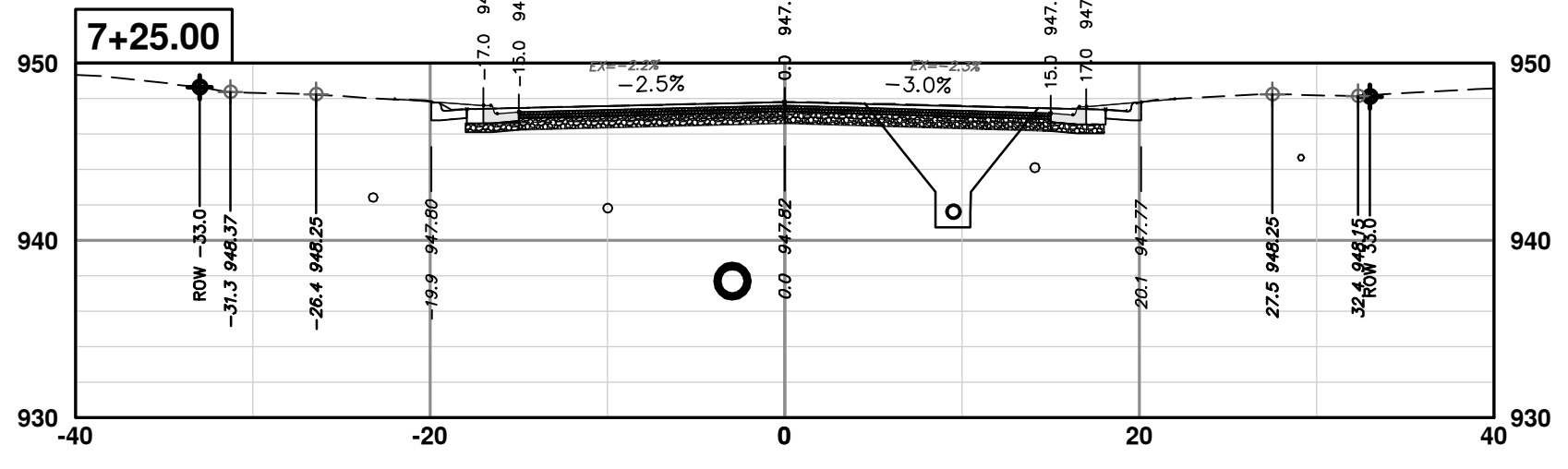
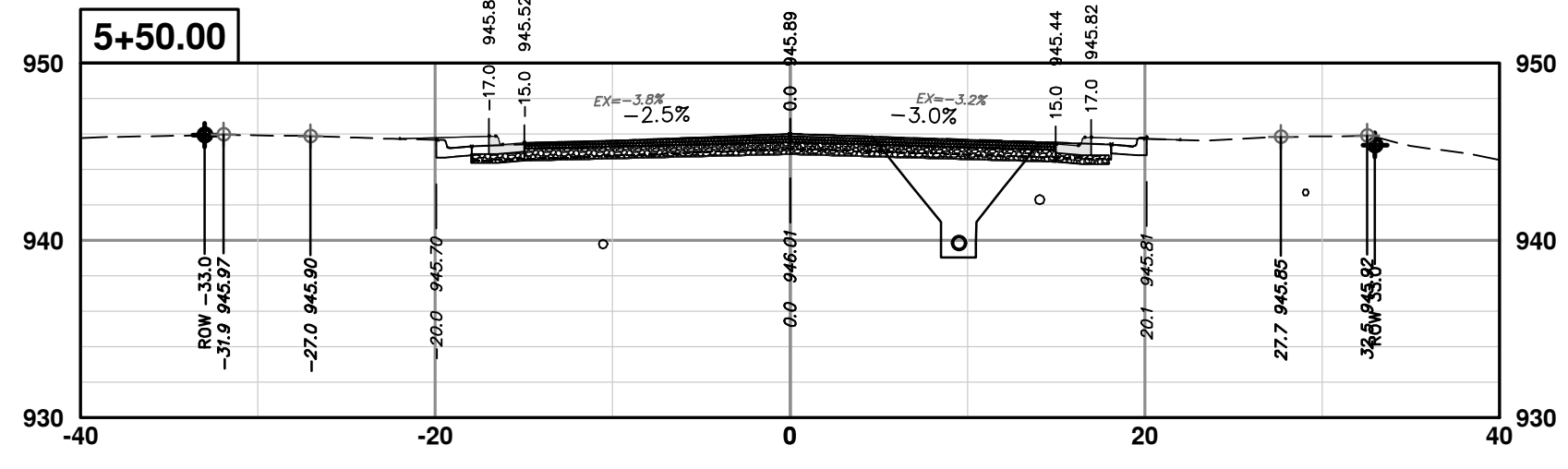
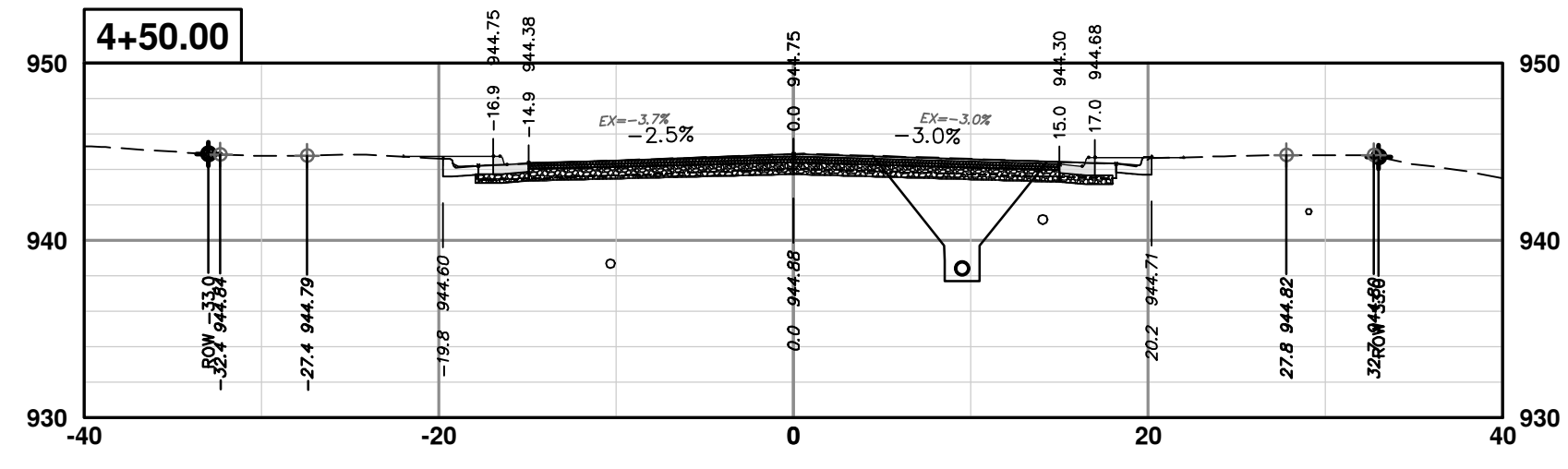
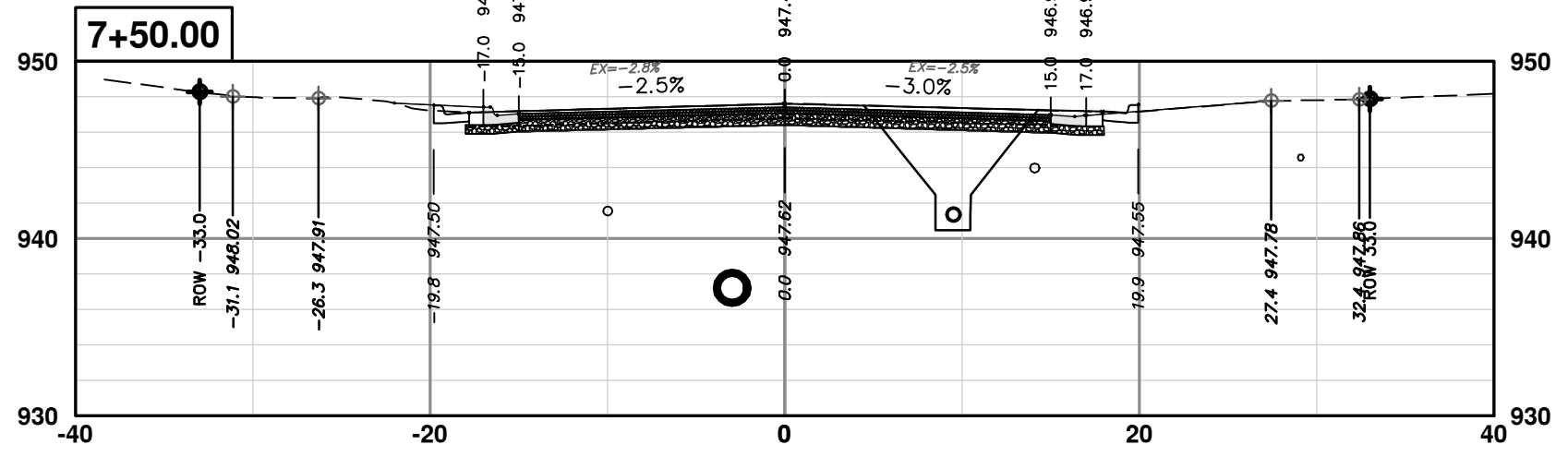
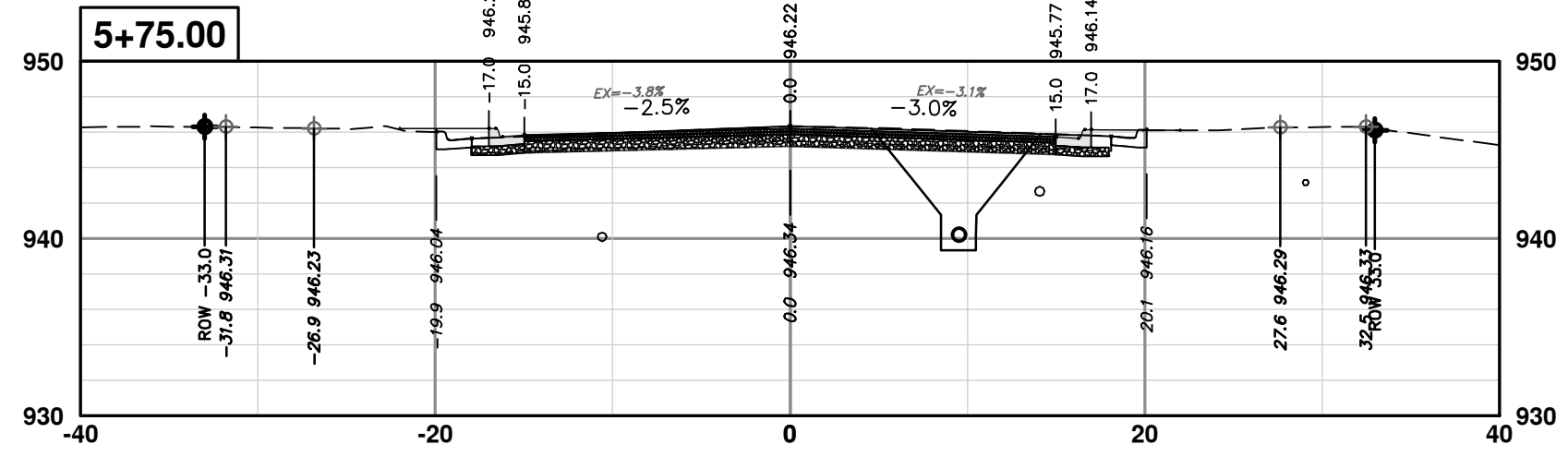
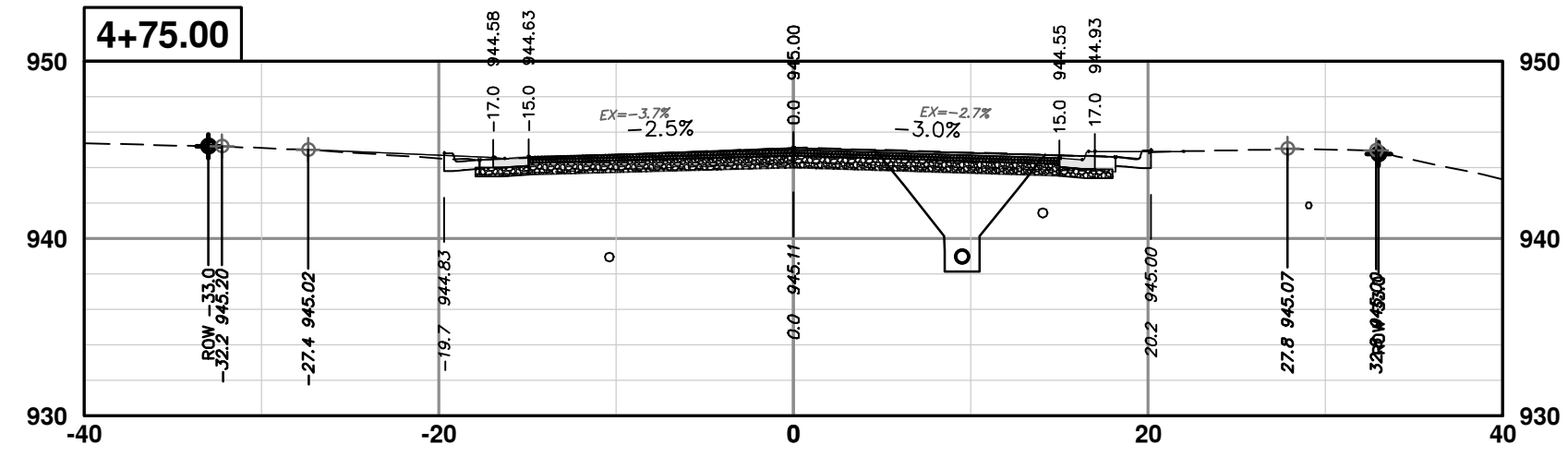
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**S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS**  
CROSS-SECTIONS - GREENVIEW DRIVE NORTH  
STA. 1+00 - STA. 3+75

SCALE PLAN: 1" = 10'  
PROFILE: 1" = 10'  
DRAWING No. 2020031-84  
SHEET No.

REV.	DESCRIPTION	DATE	BY	CHKD
00	BID SET	1-30-24	AZD	TA



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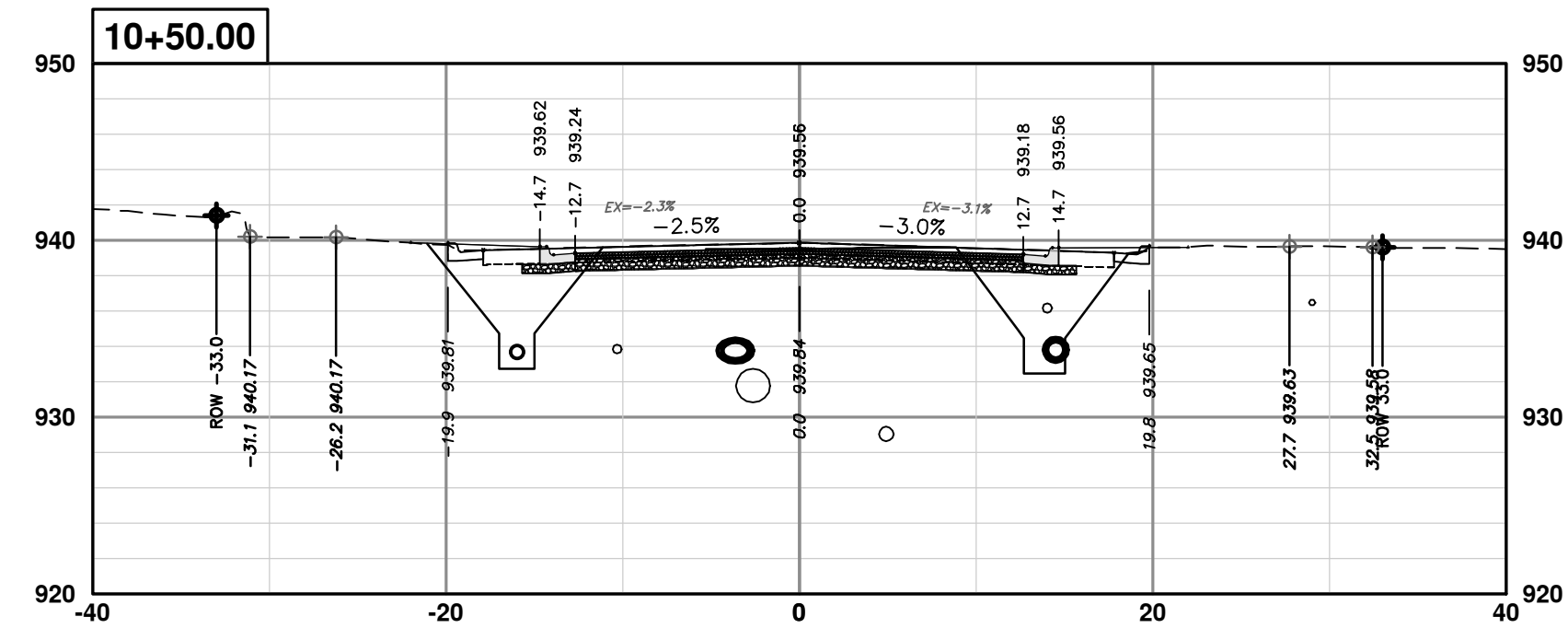
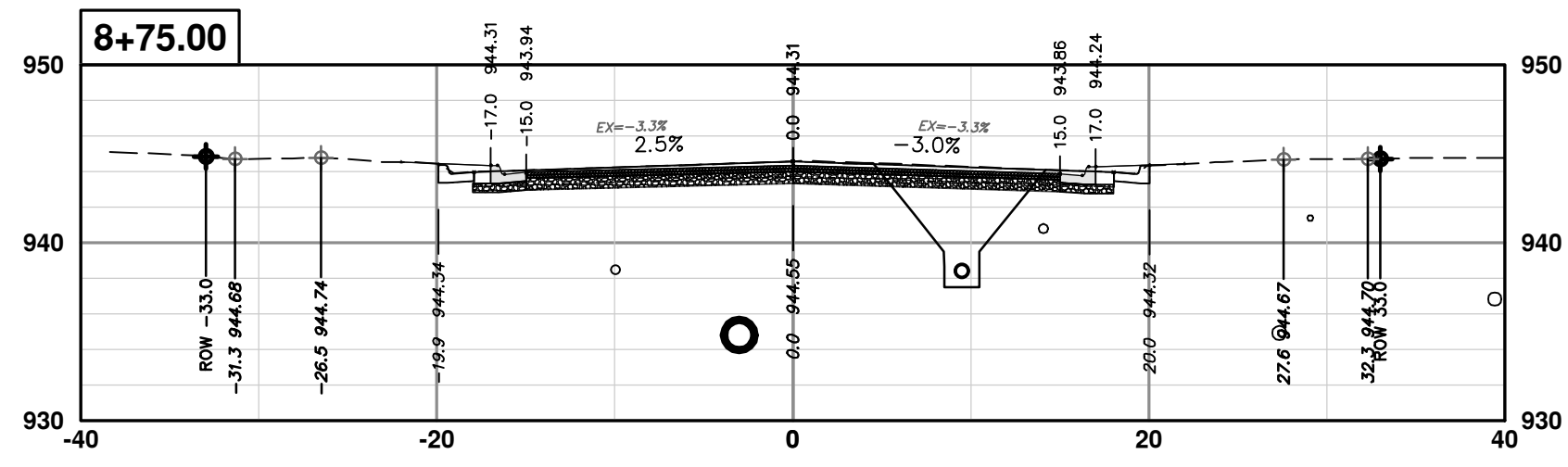
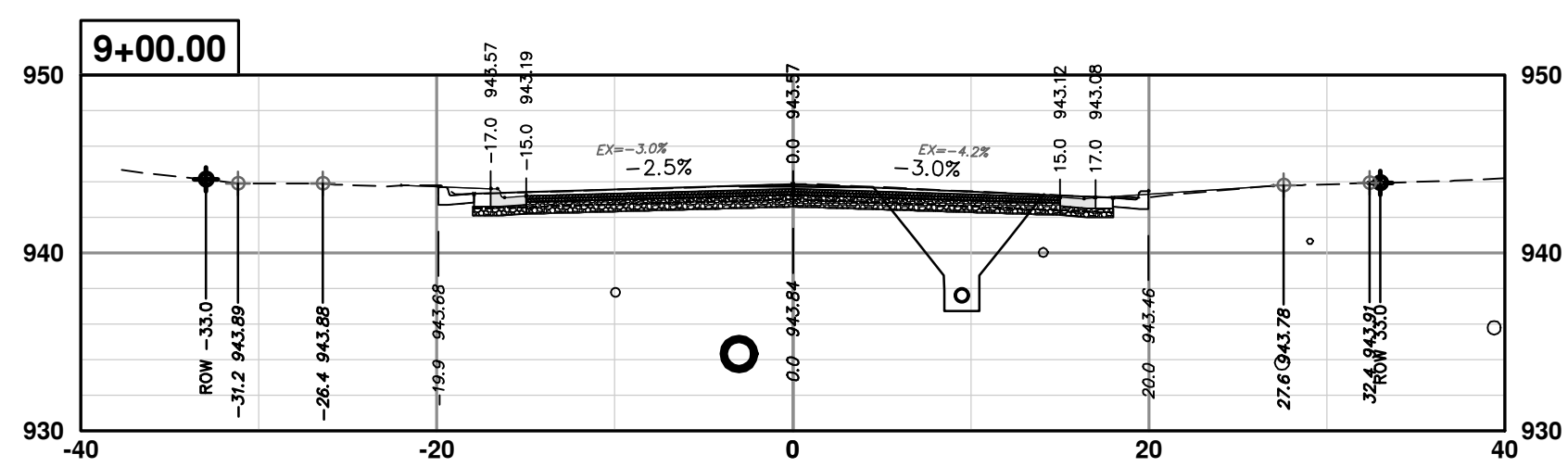
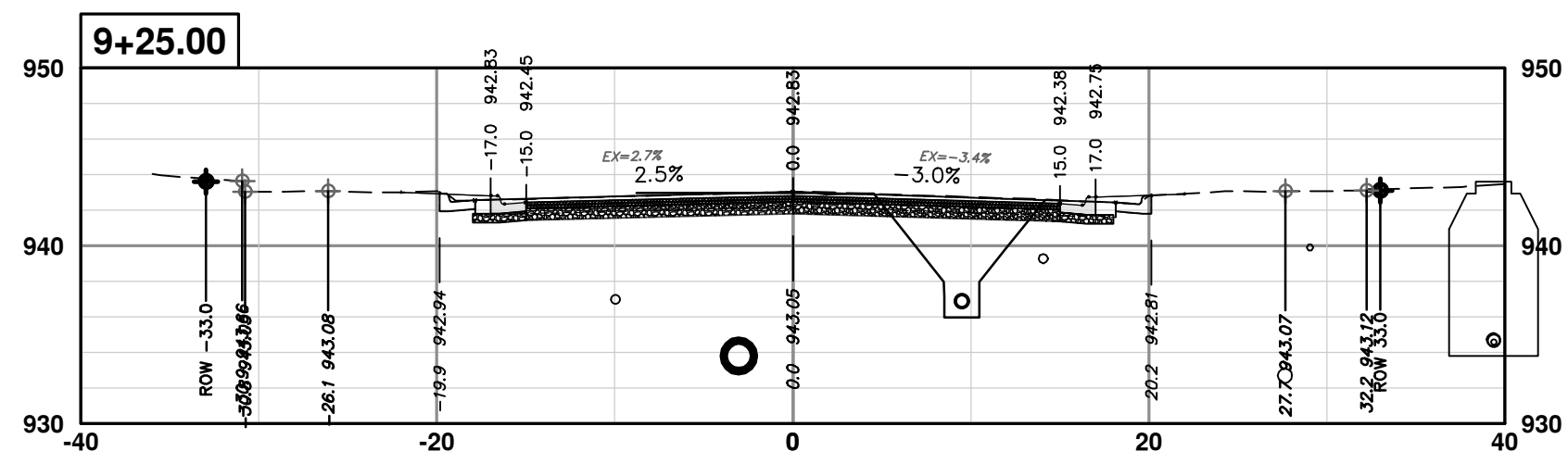
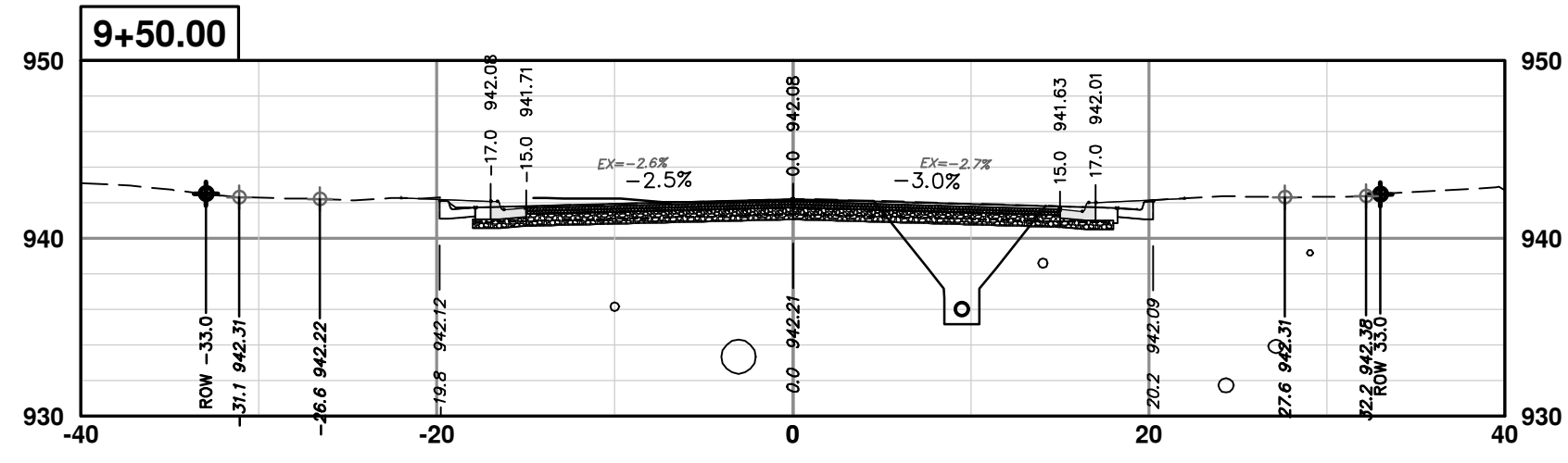
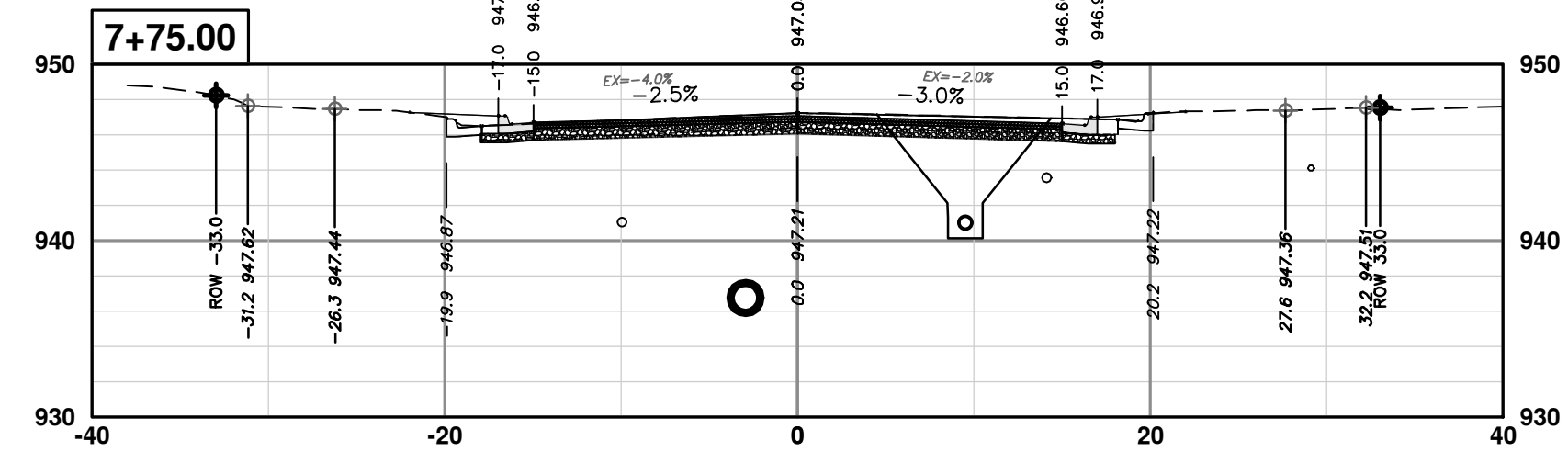
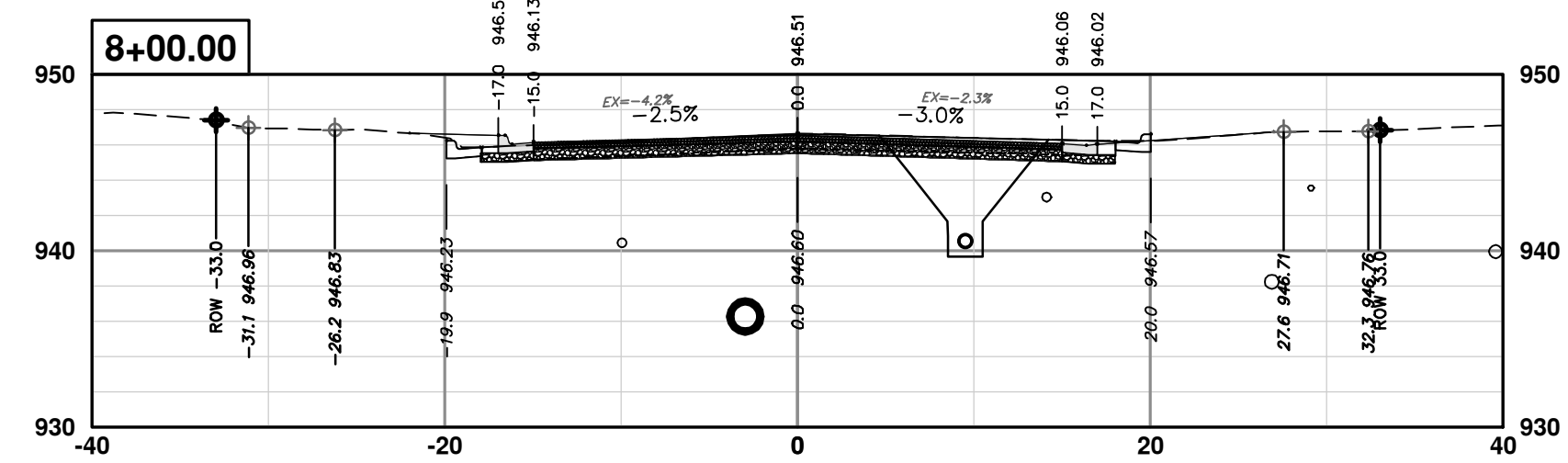
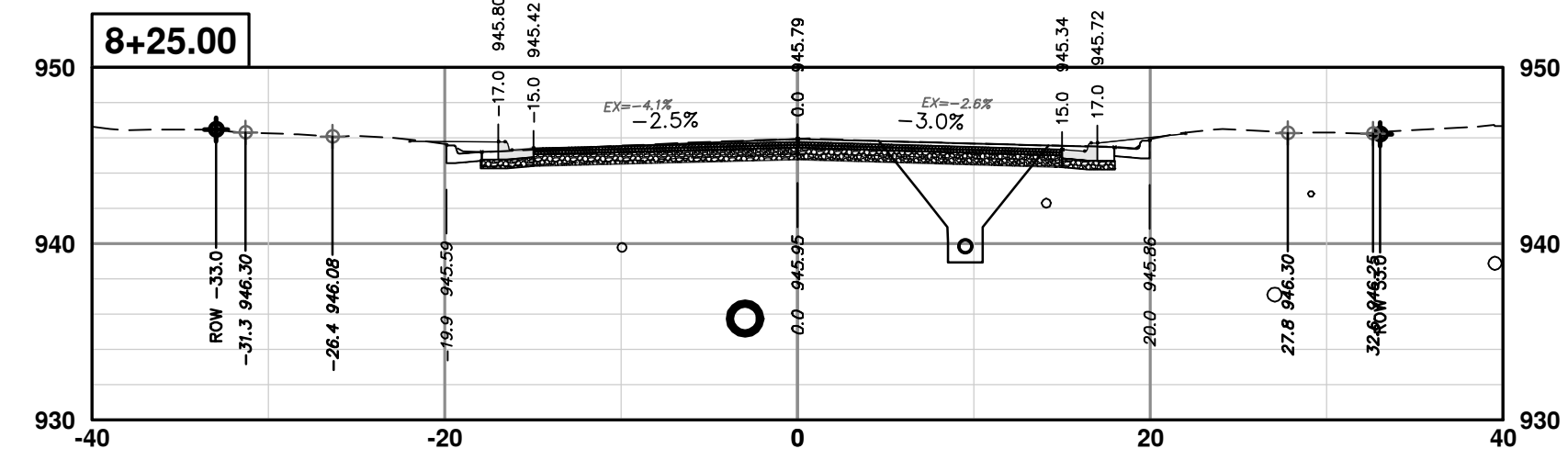
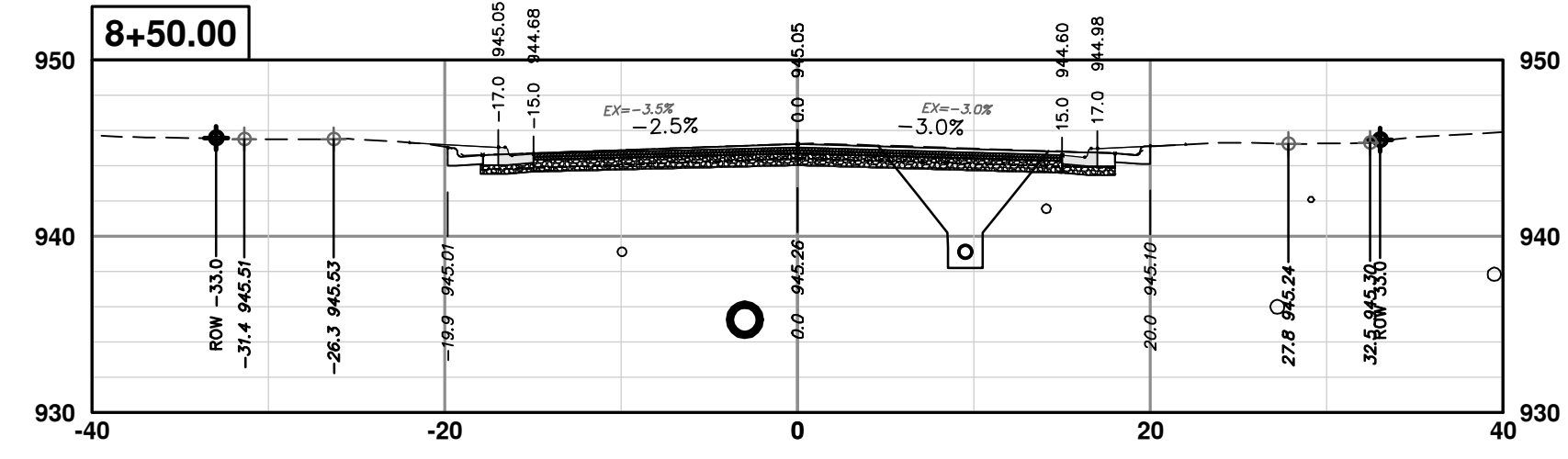
REV.	DESCRIPTION	DATE	AZD	TA	CHECKED
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CROSS-SECTIONS - GREENVIEW DRIVE NORTH  
STA. 4+00 - STA. 7+50

DRAWING NO. 2020031-85  
SHEET NO. 85 OF 92

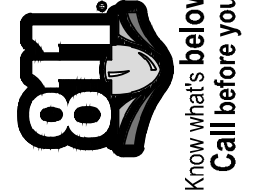
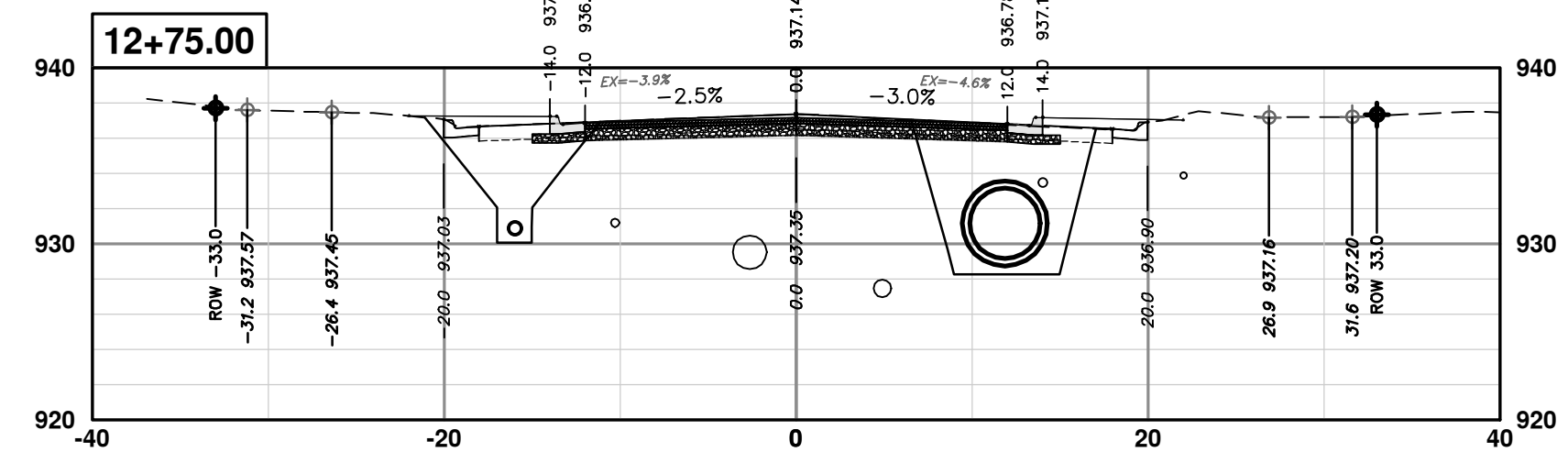
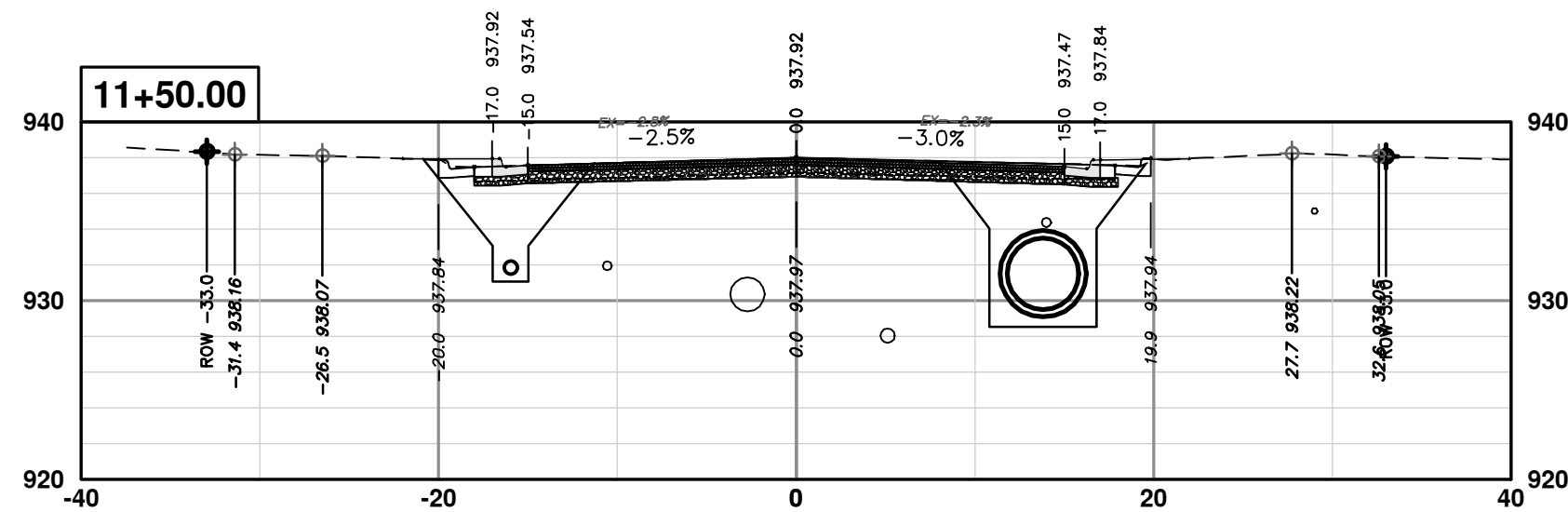
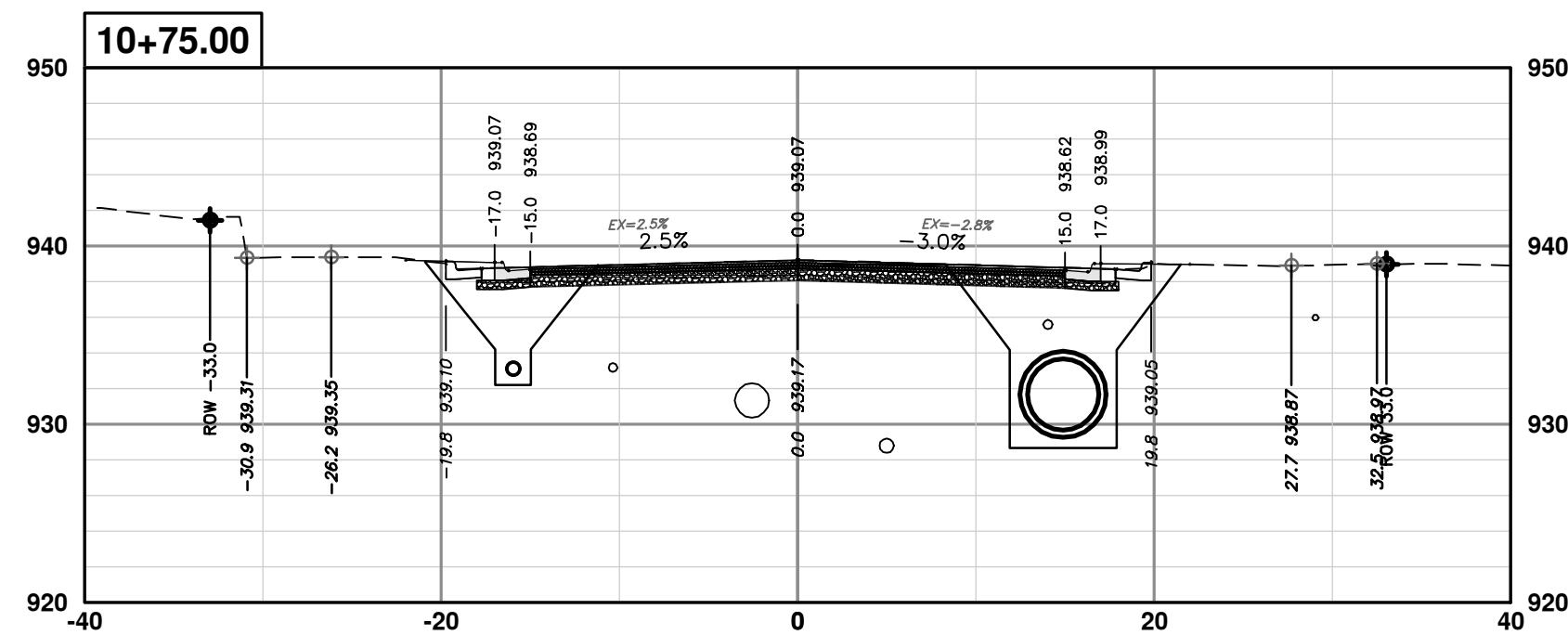
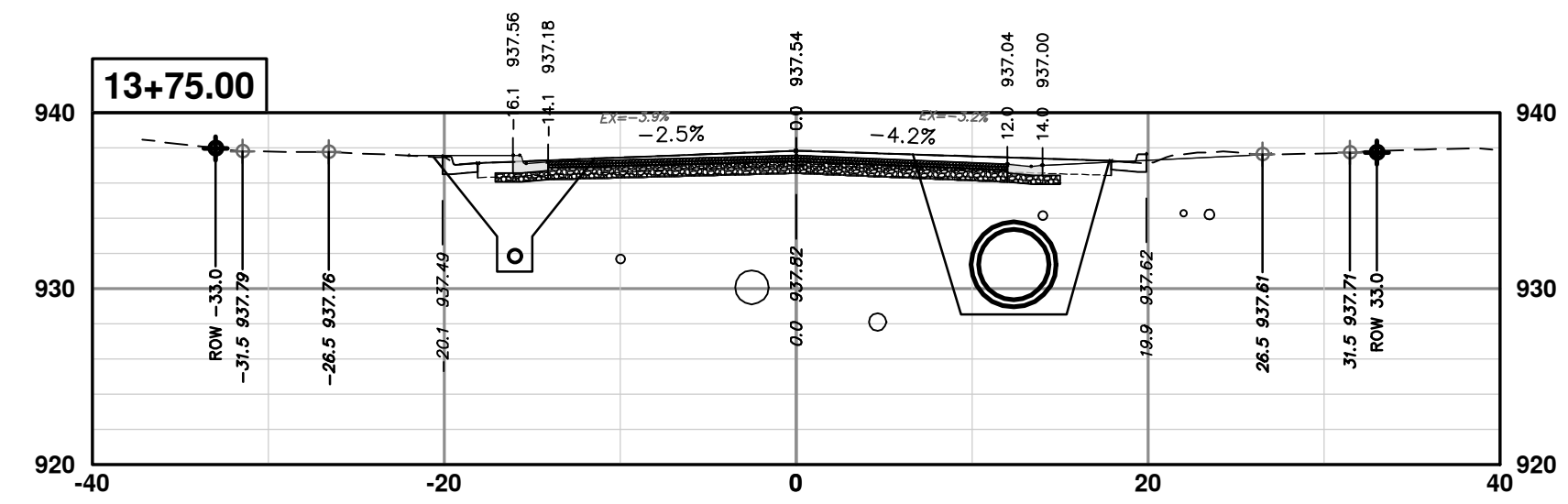
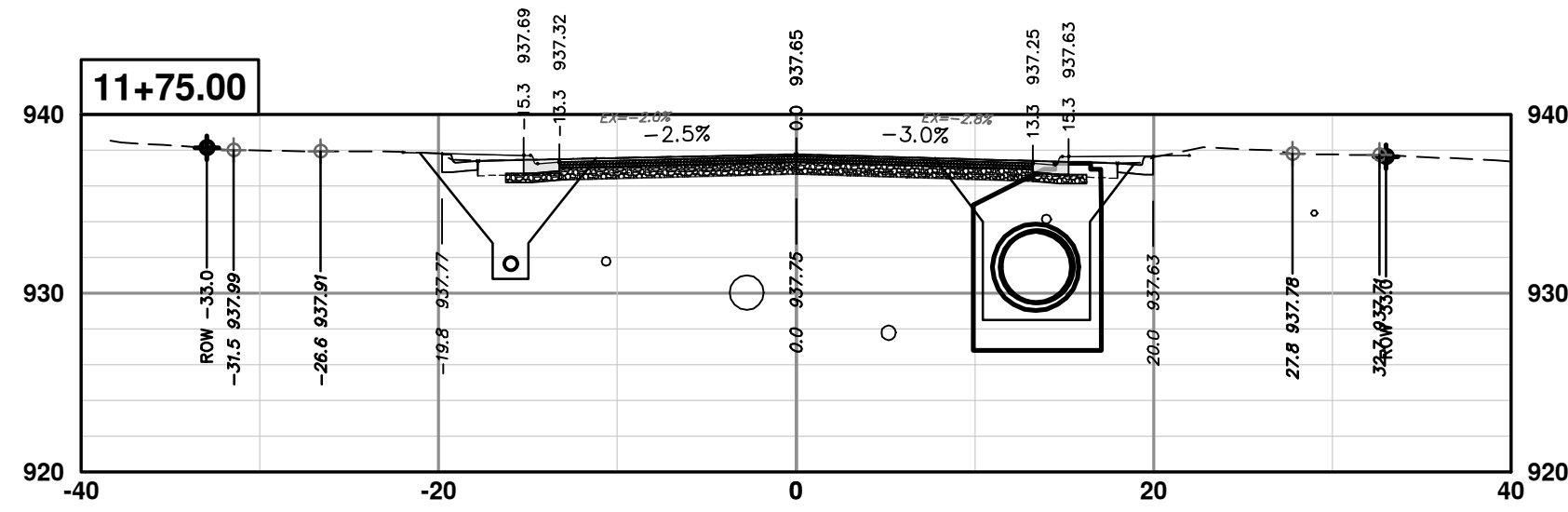
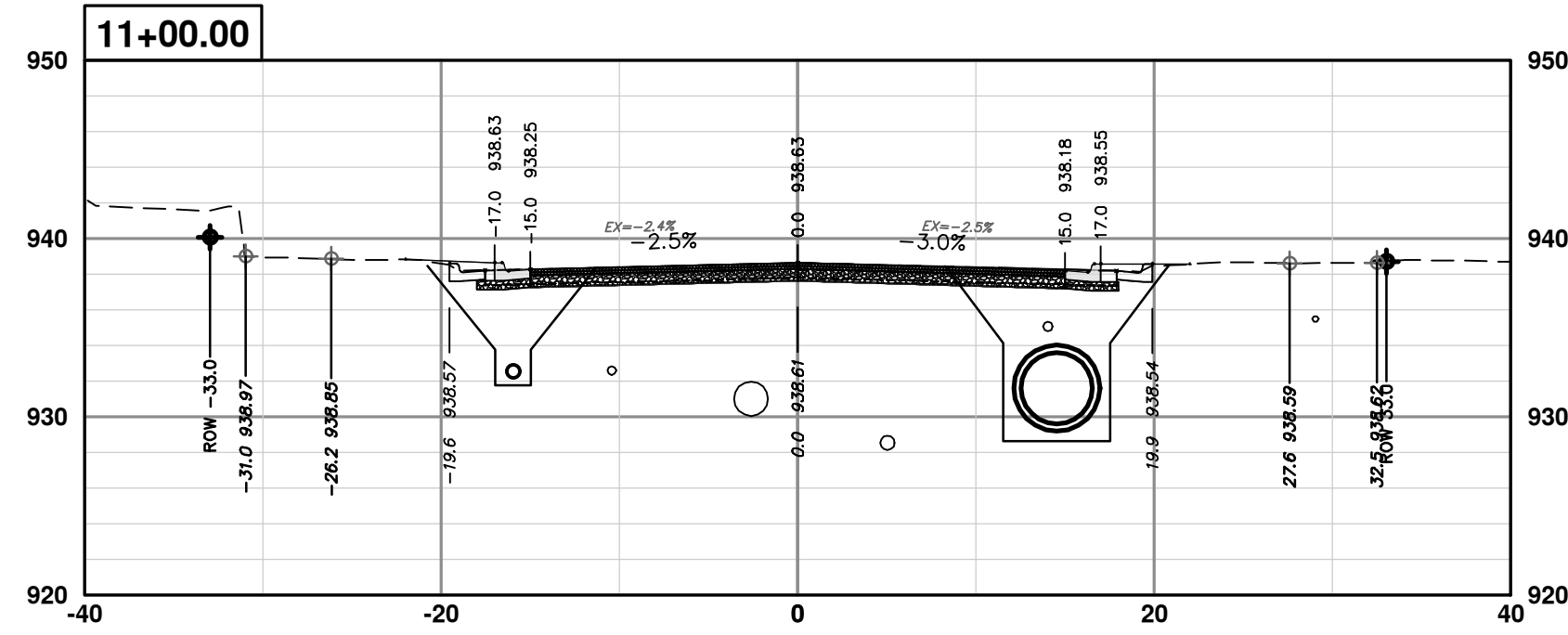
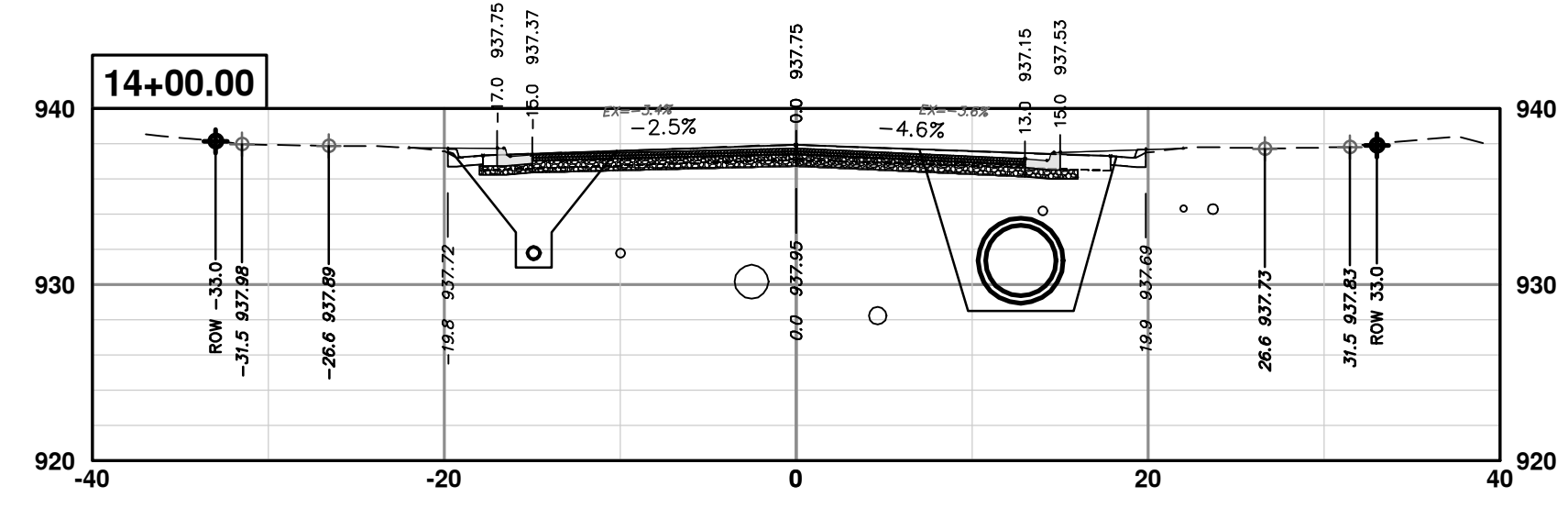
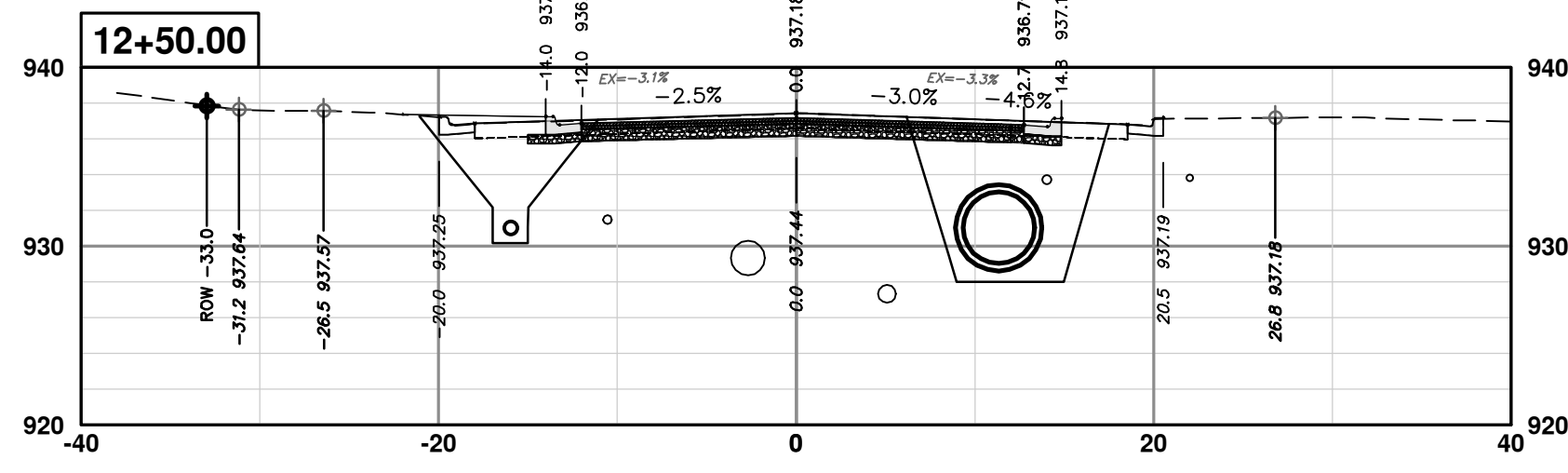
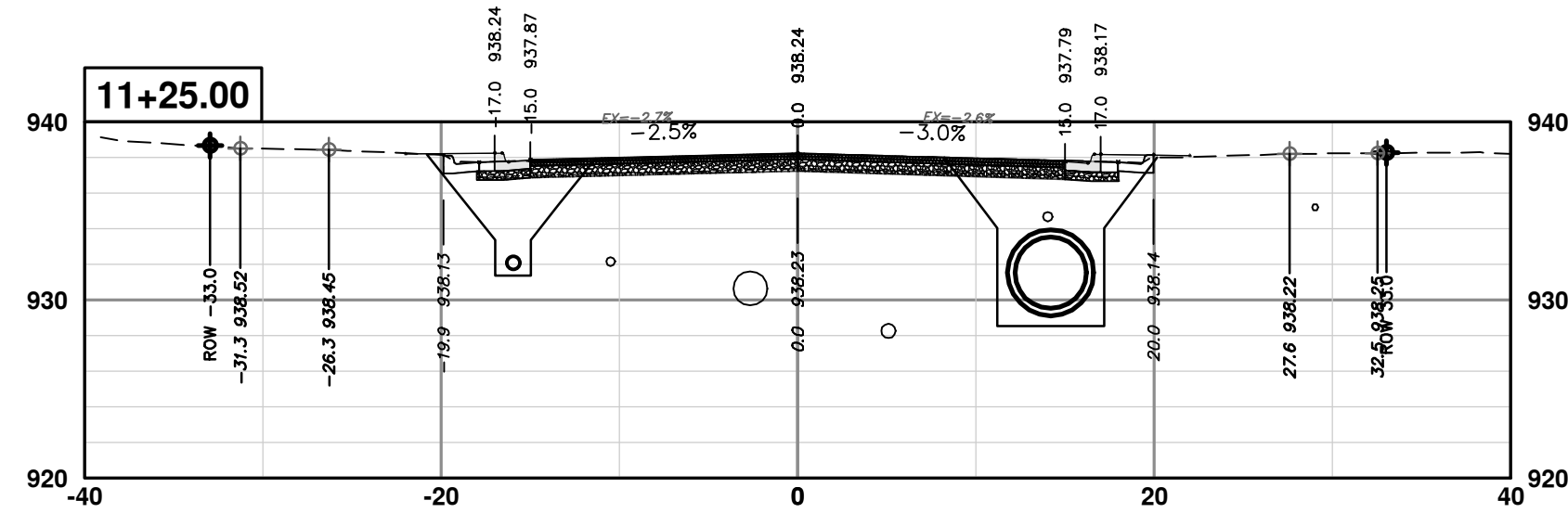




REV.	DATE	DESCRIPTION
00	BID SET	
01	1-30-24	A2D DRAWN
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CROSS-SECTIONS - GREENVIEW DRIVE NORTH  
STA. 10+75 - STA. 14+00

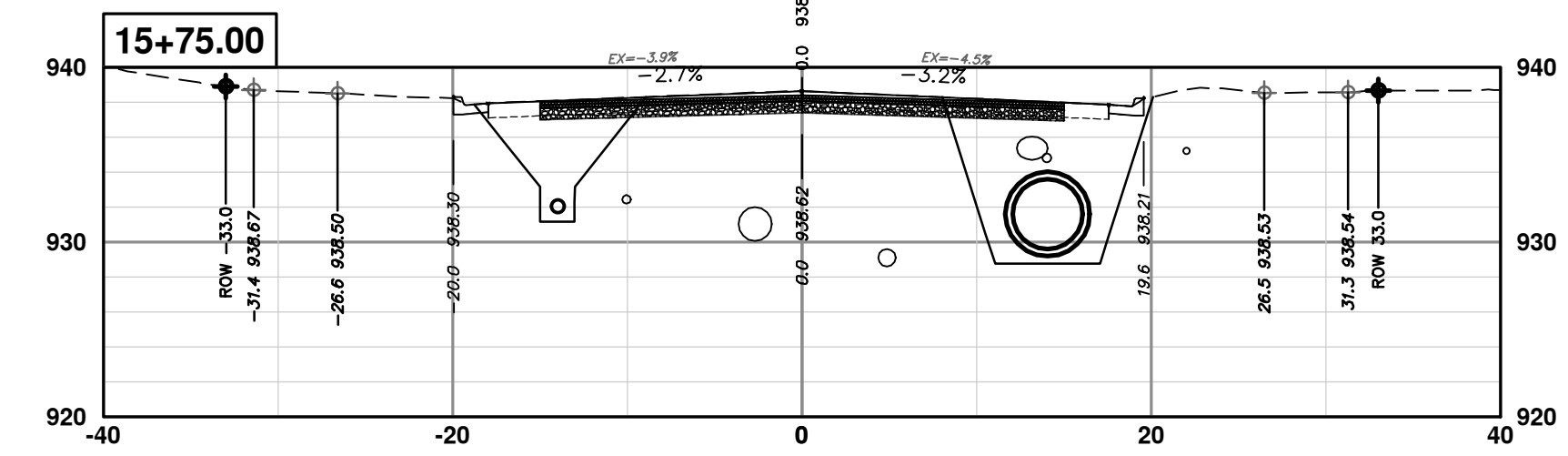
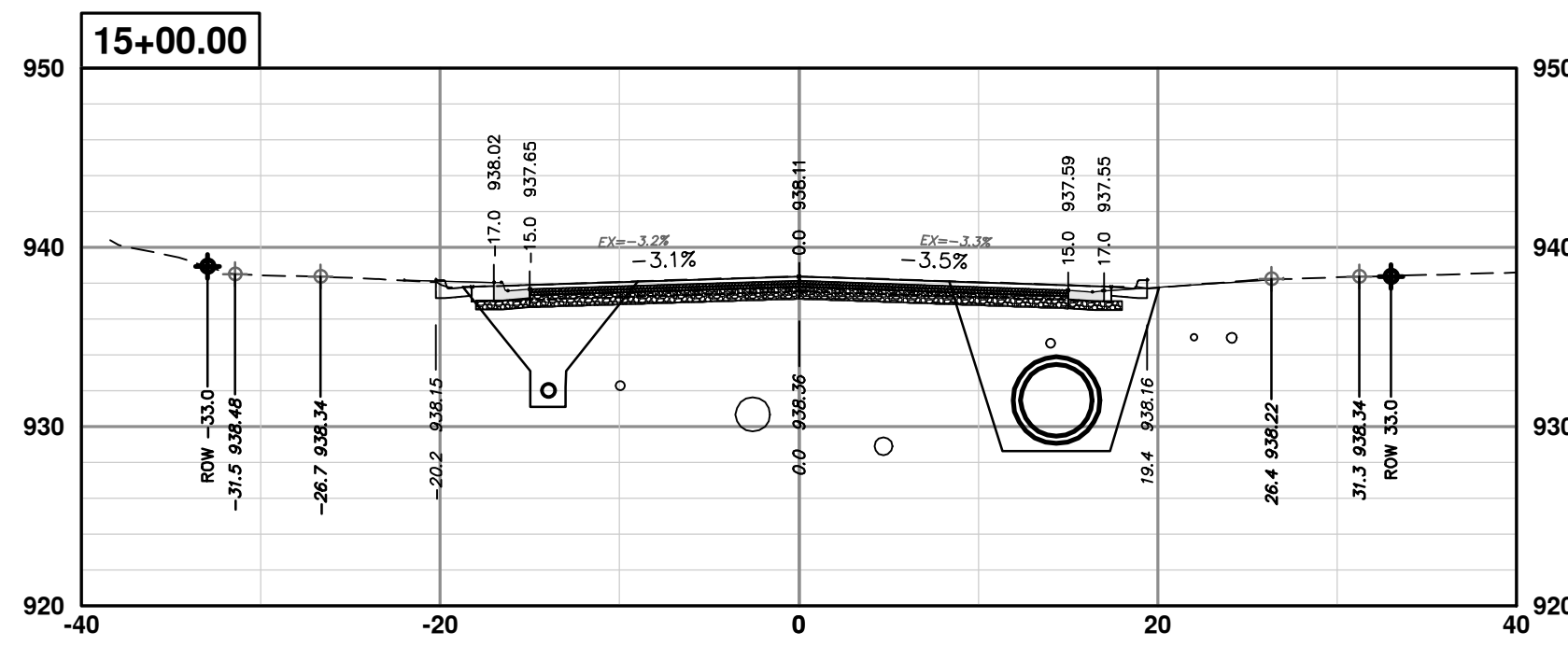
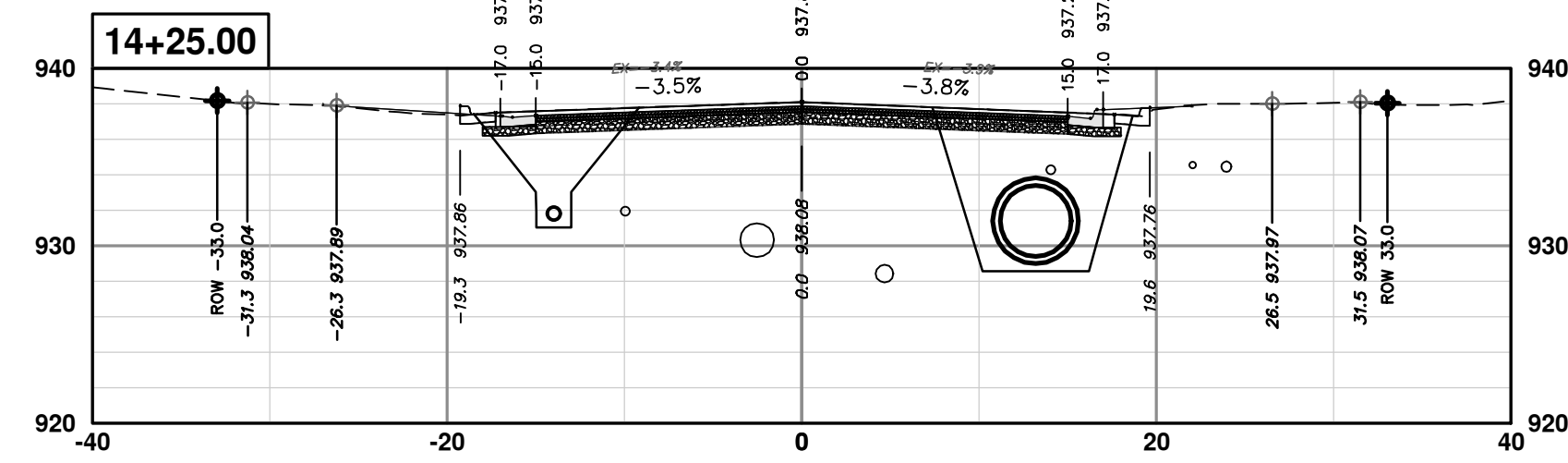
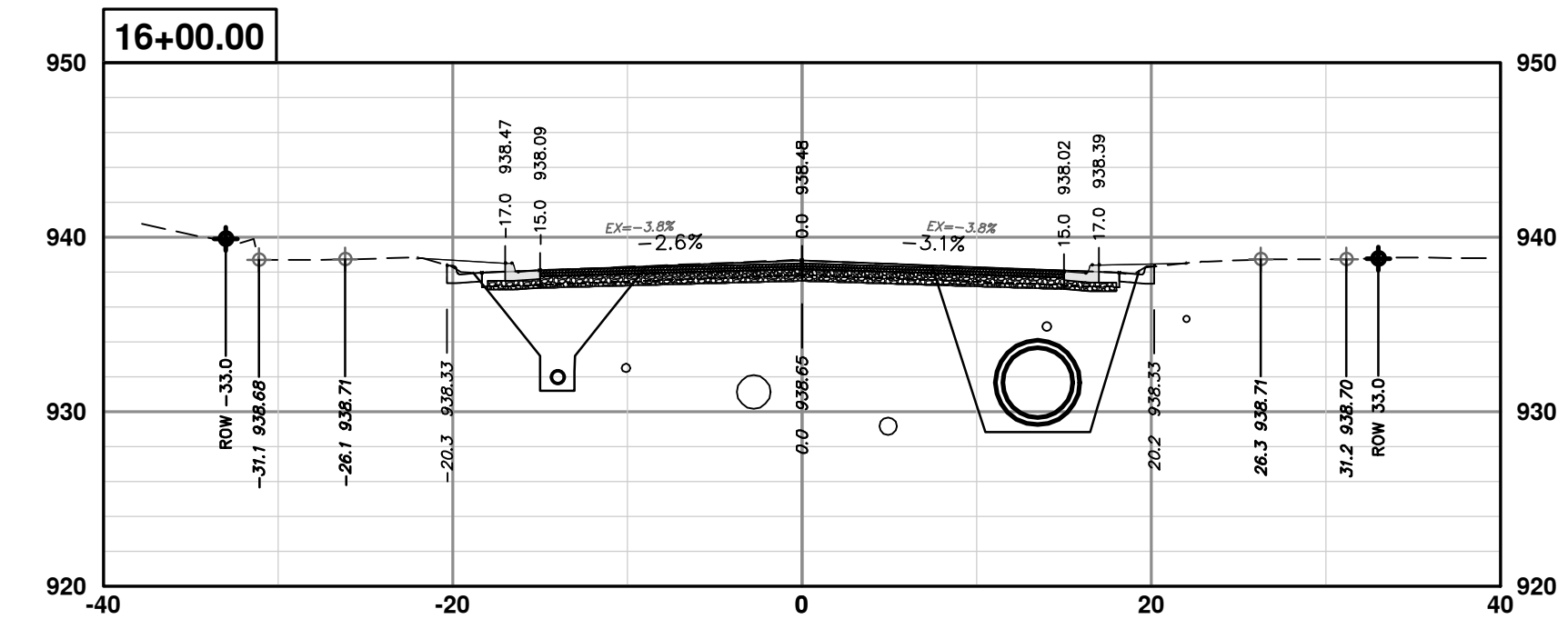
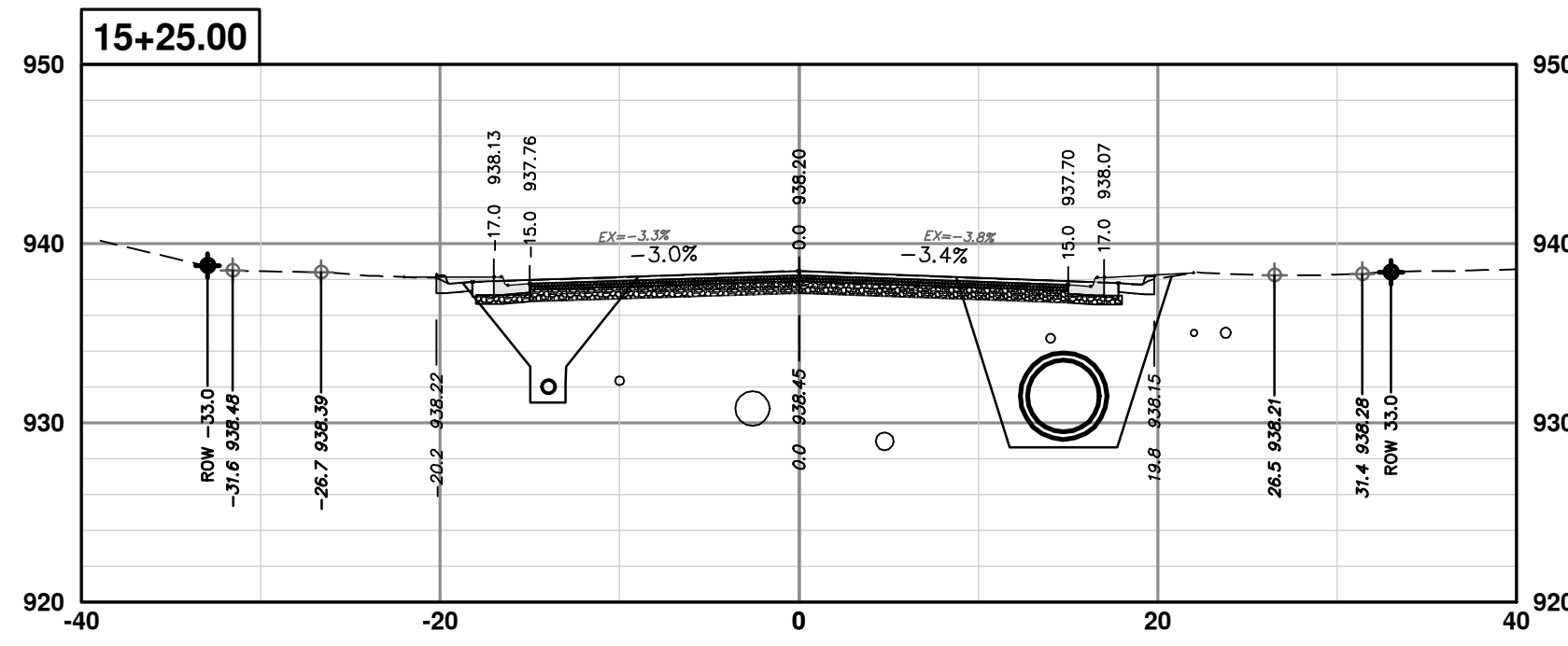
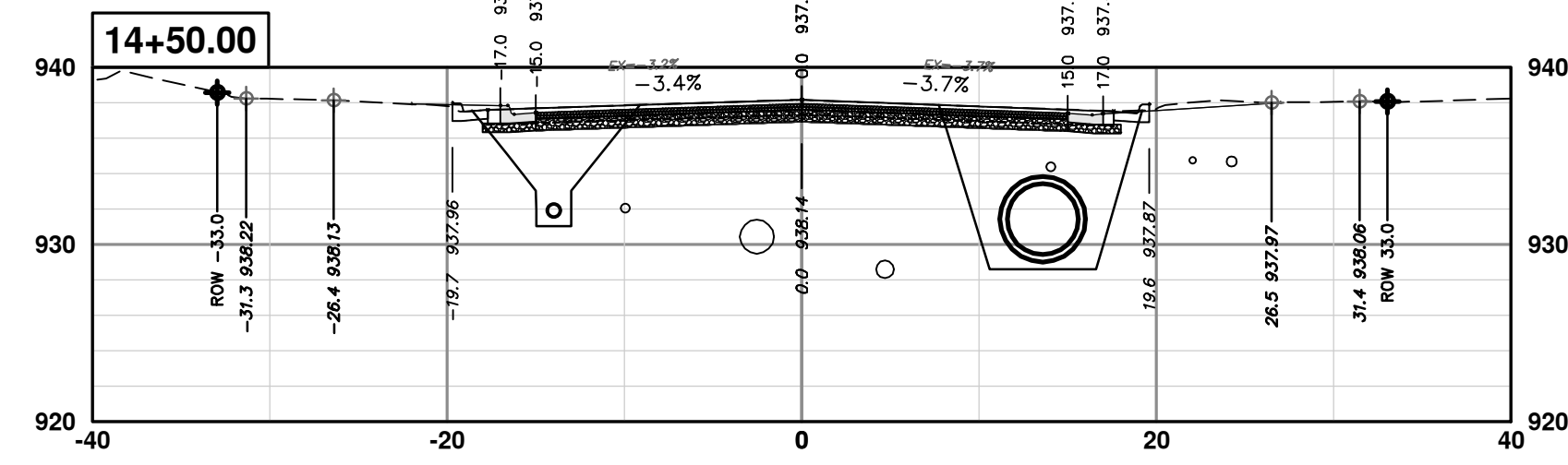
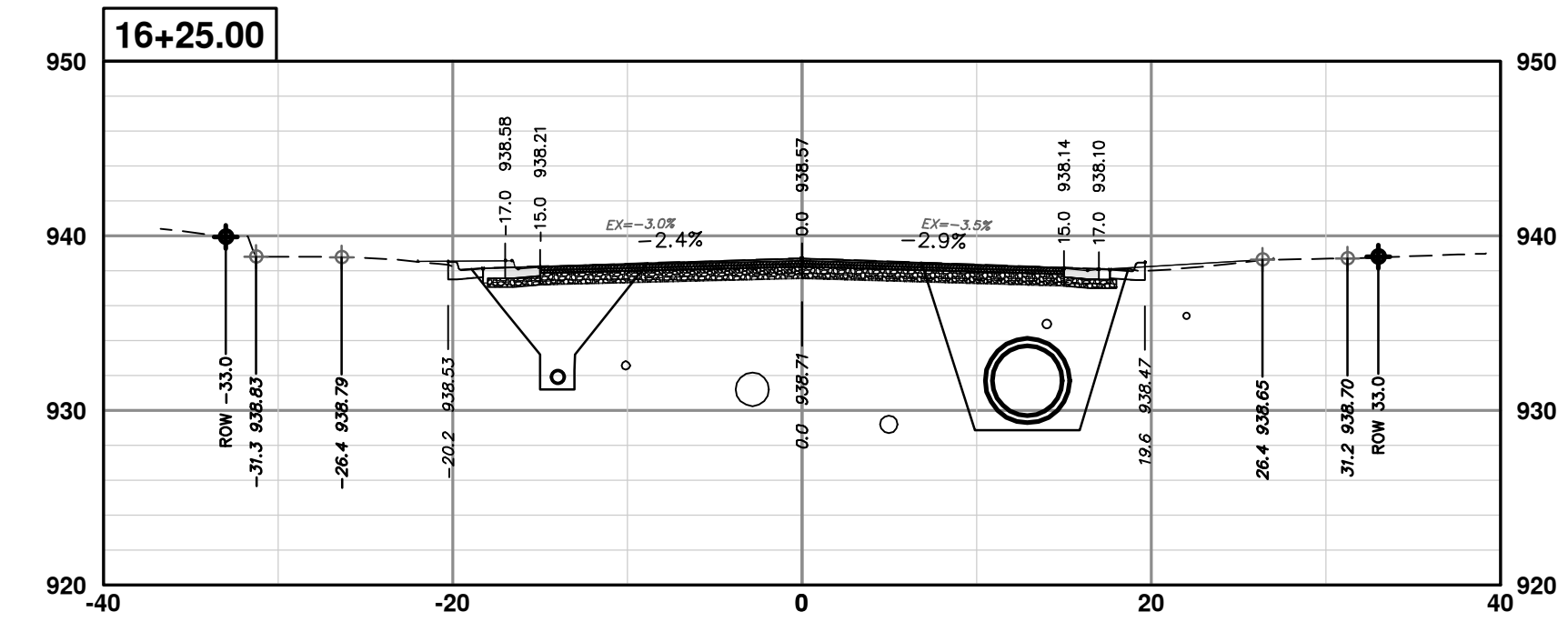
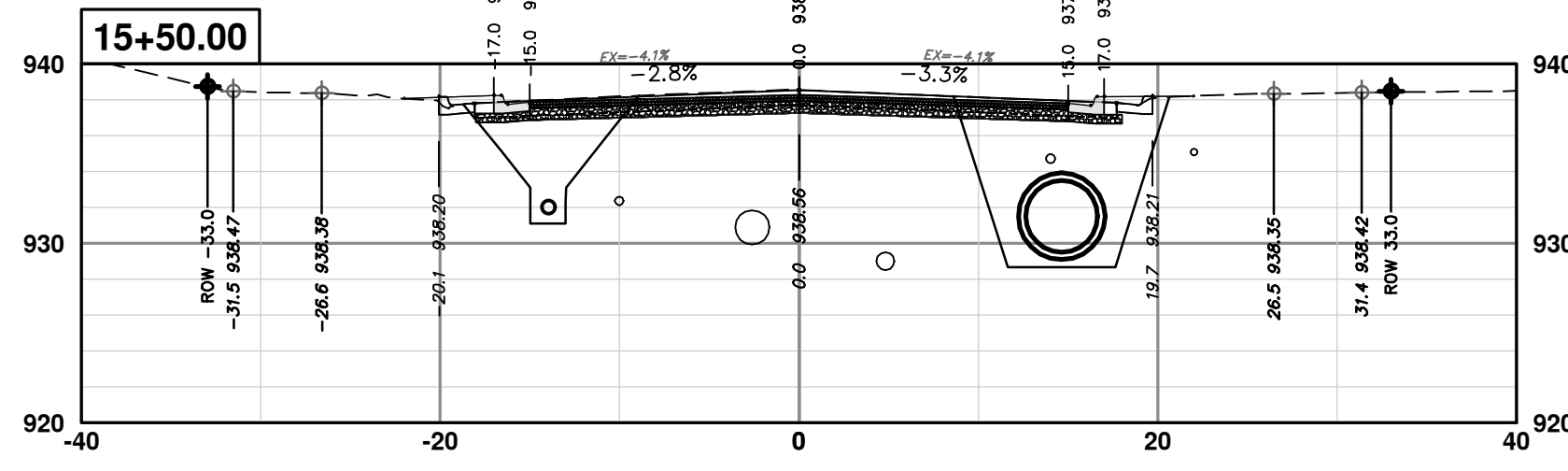
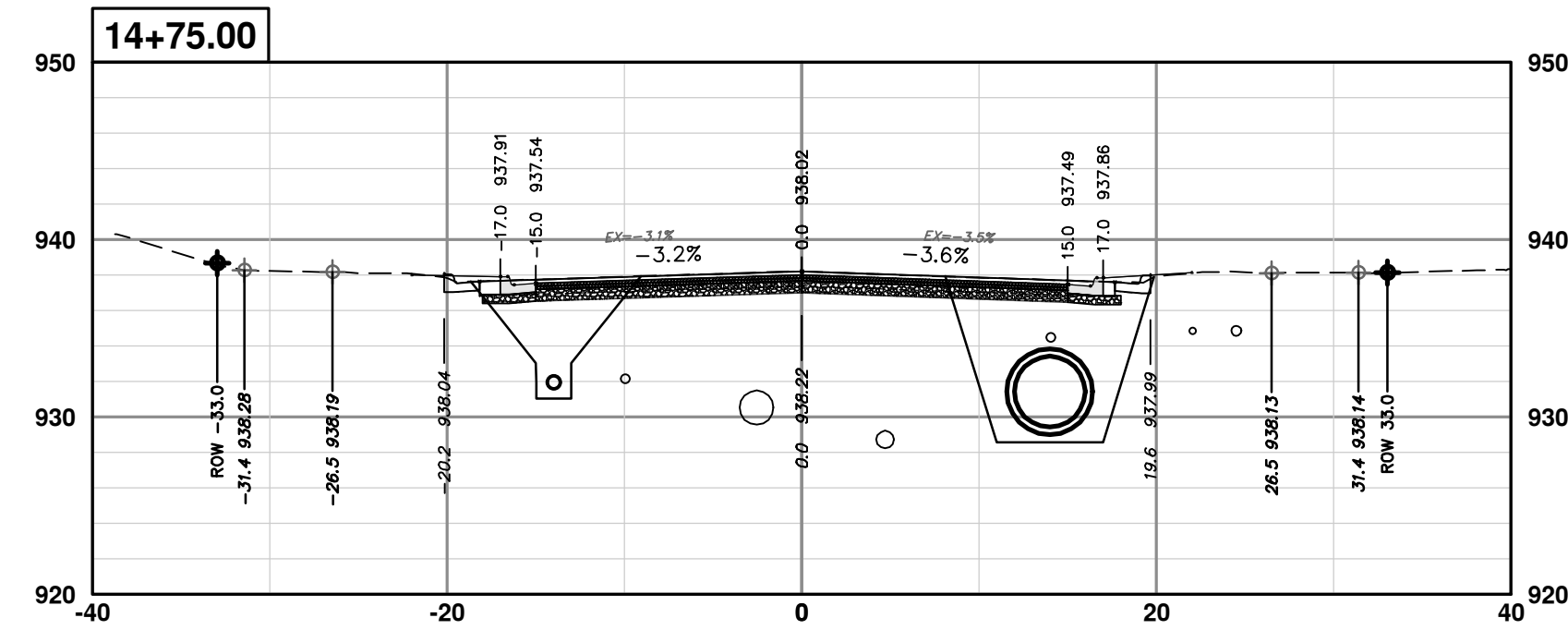
SCALE PLAN: 1" = 10'  
PROFILE: 1" = 10'  
DRAWING No. 2020031-87

SHEET No.

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
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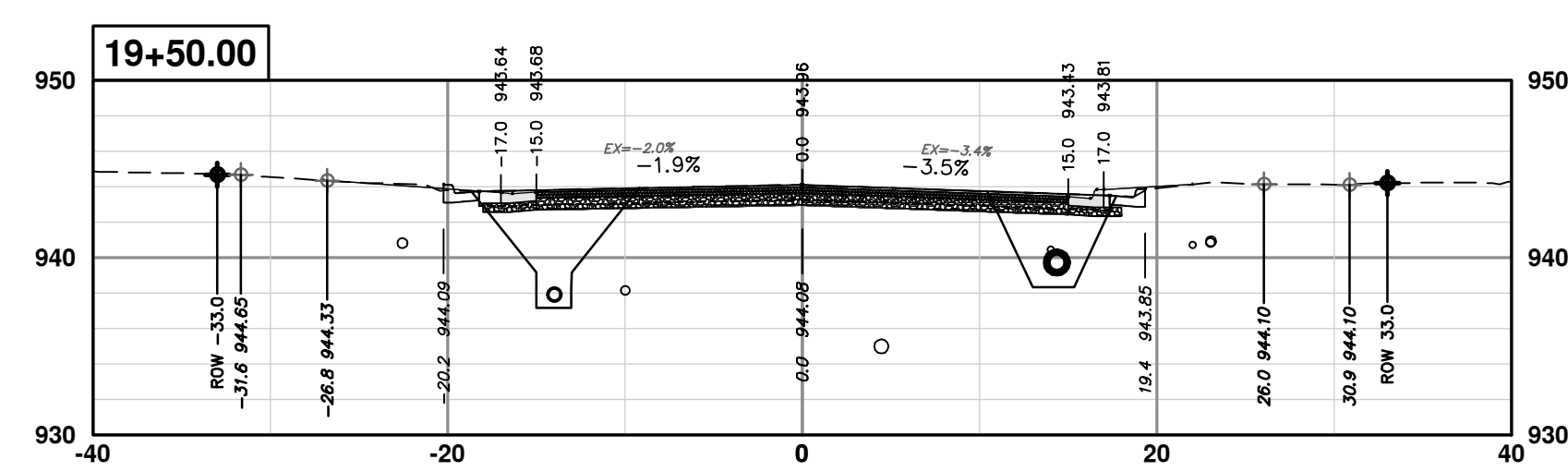
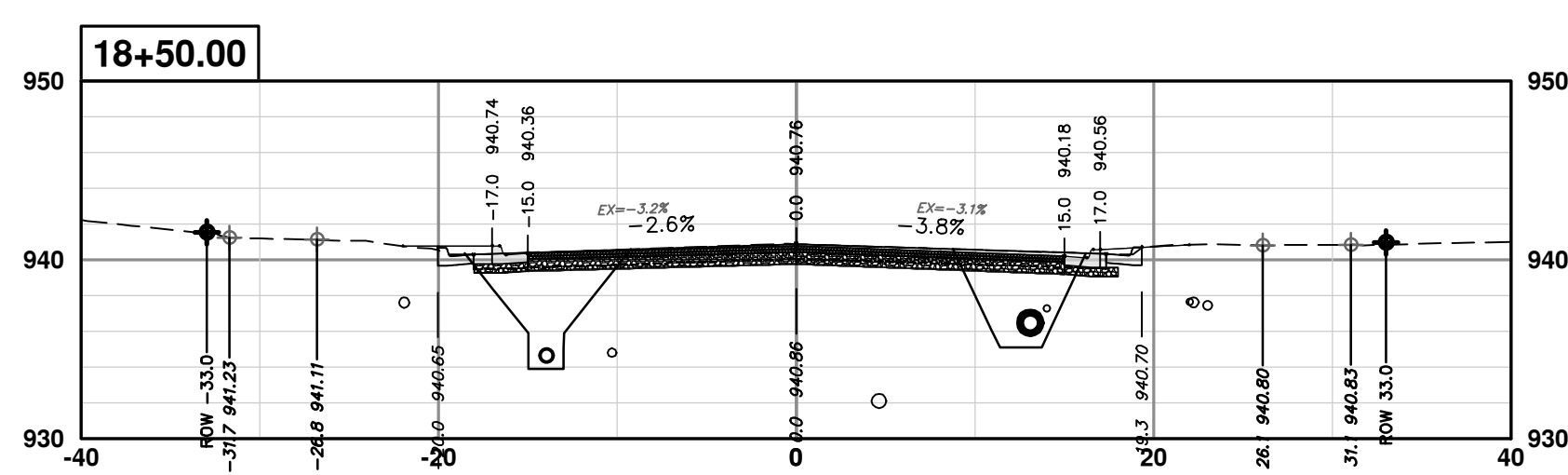
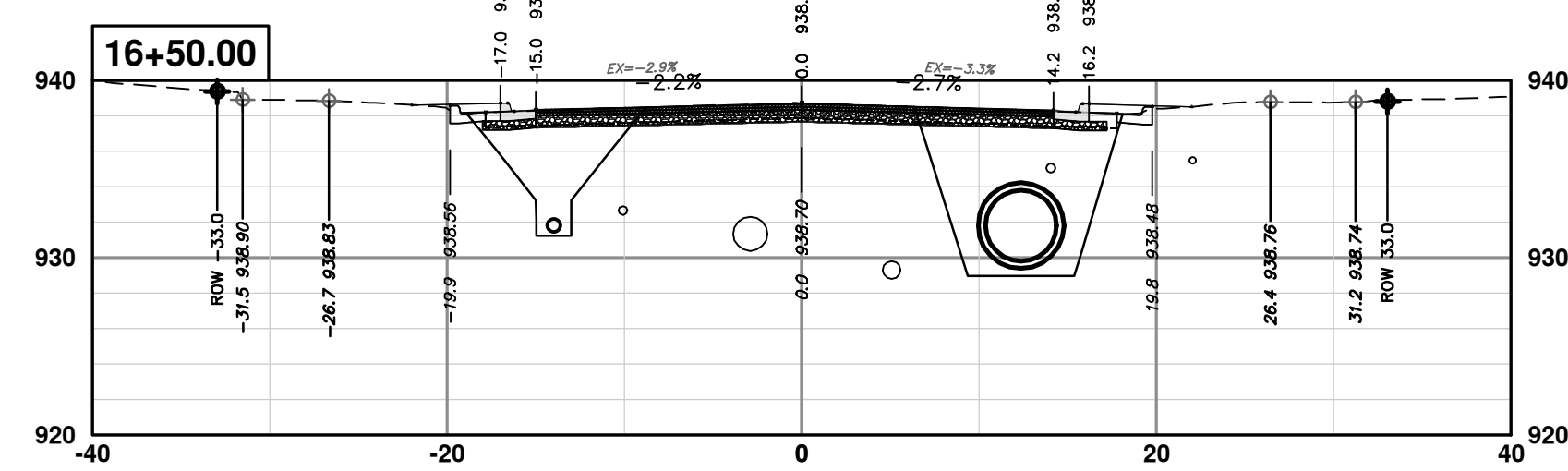
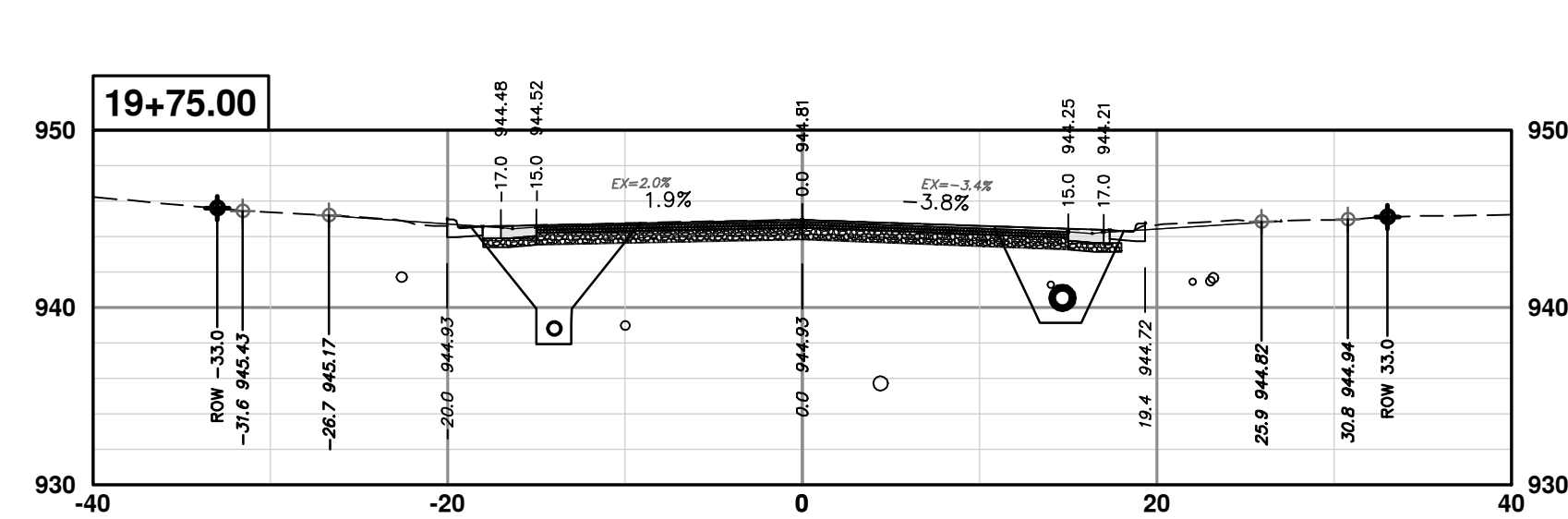
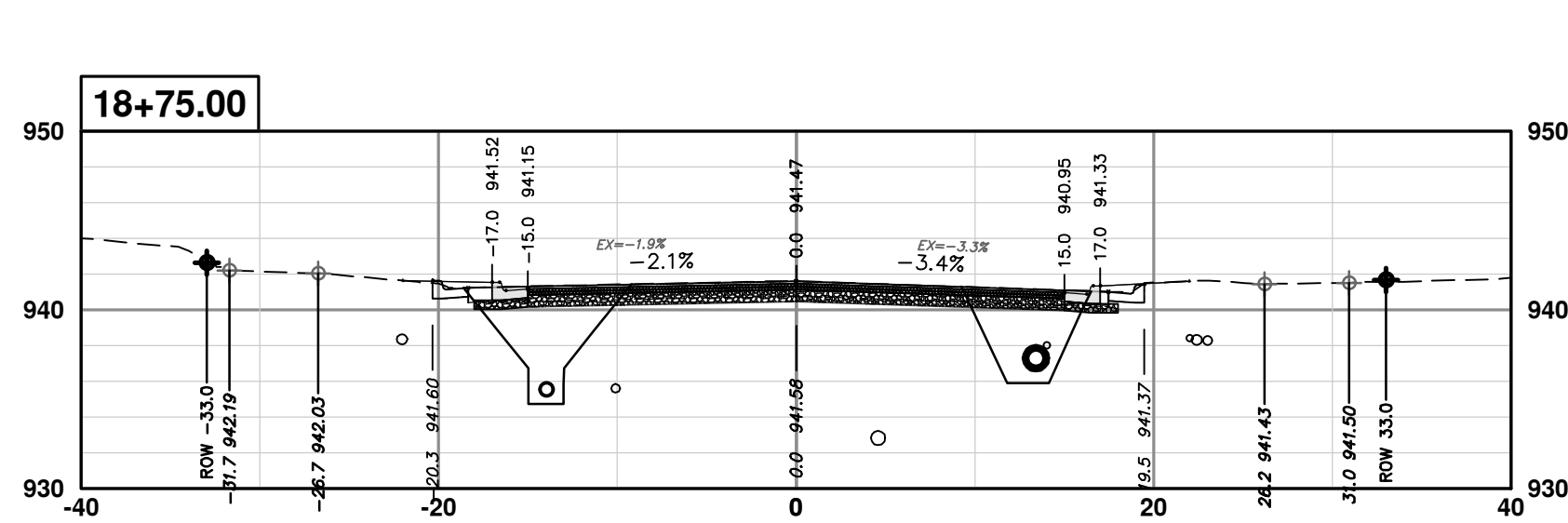
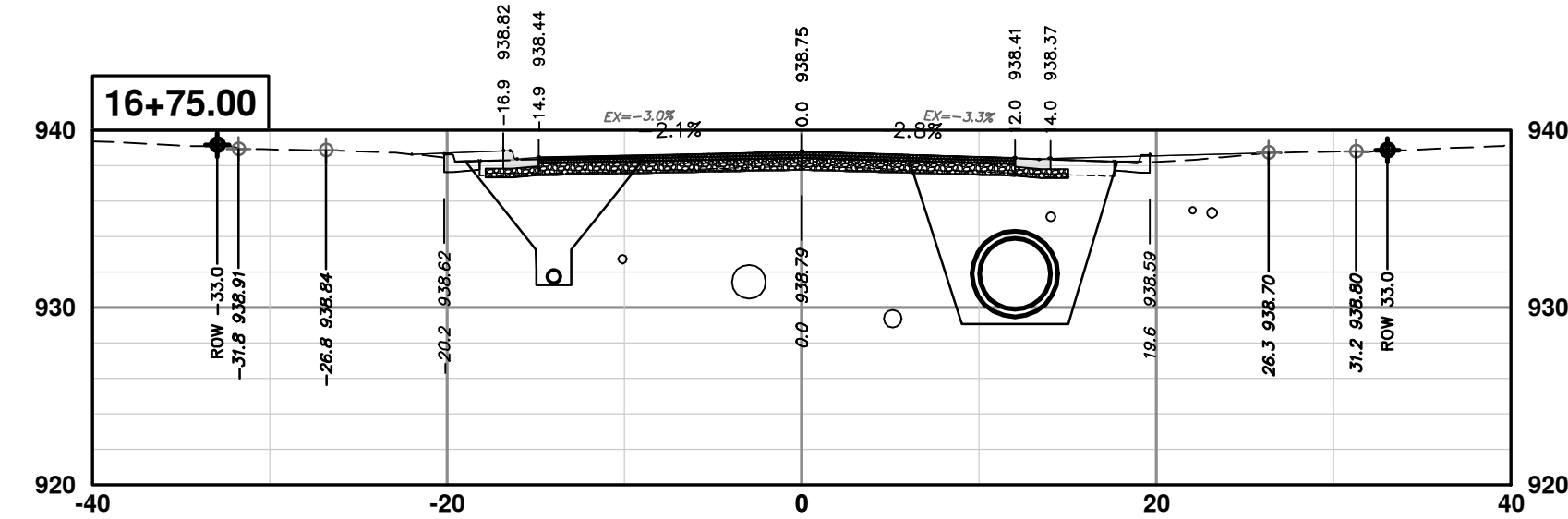
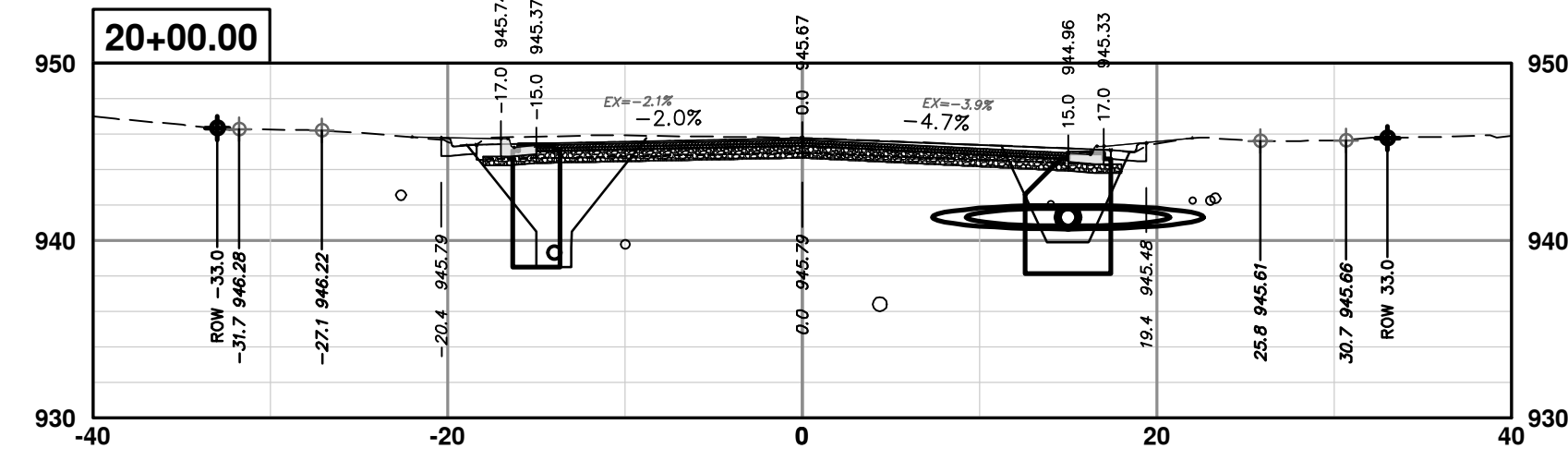
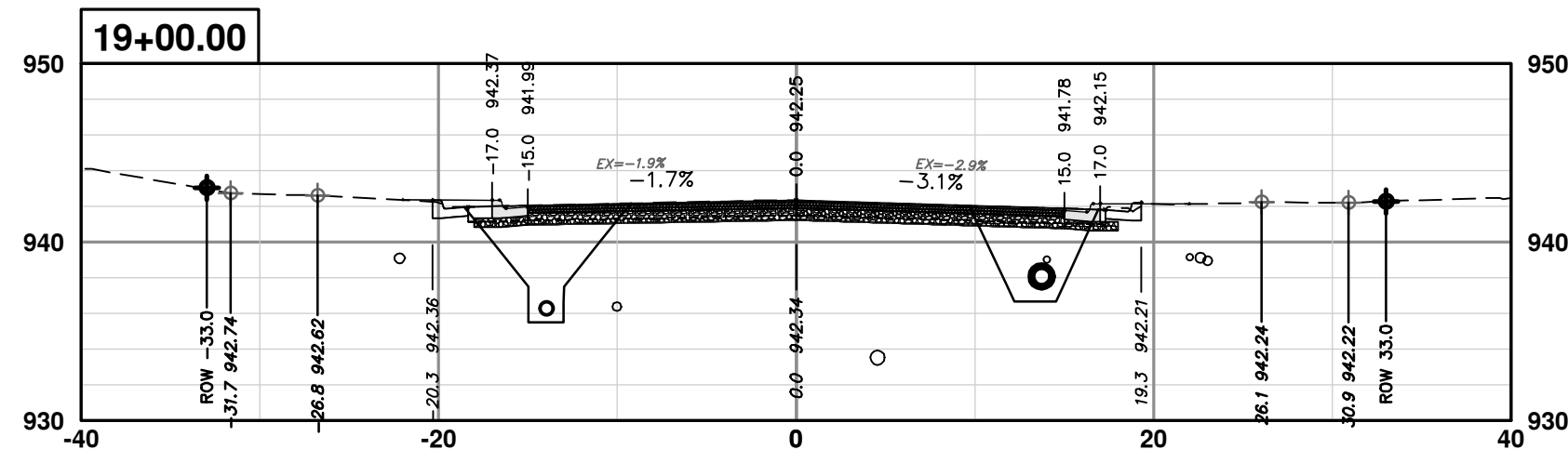
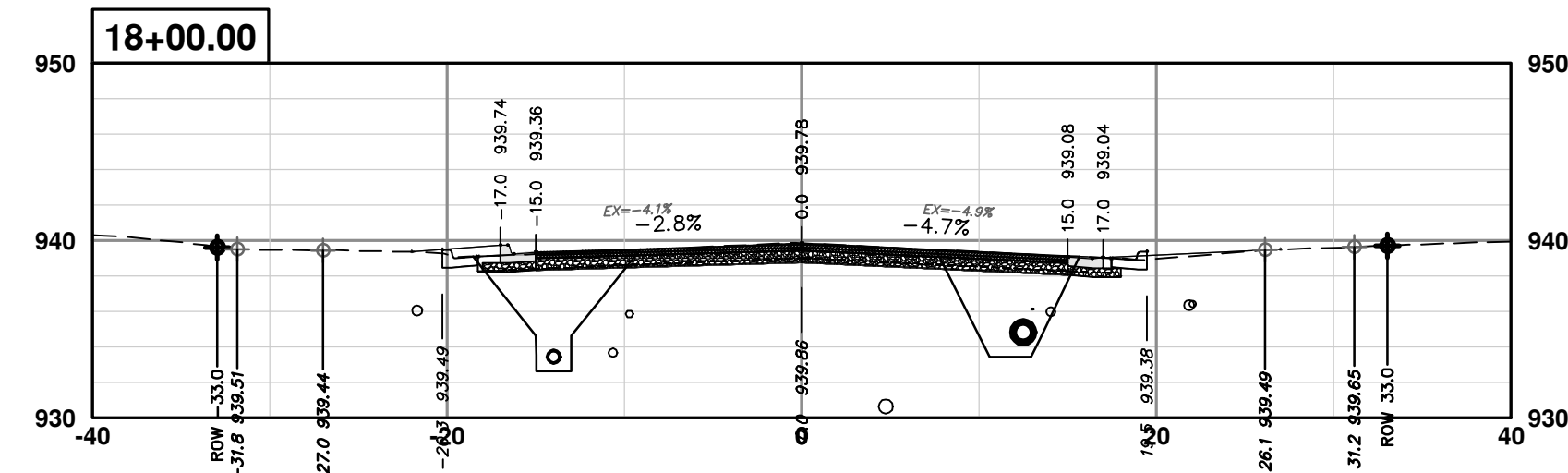
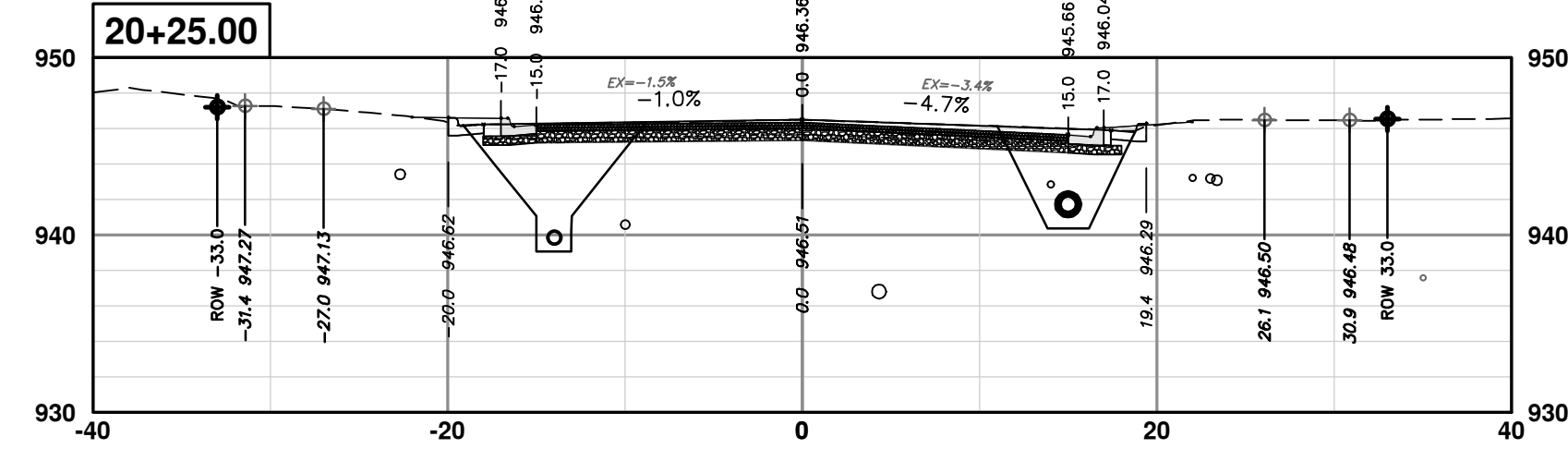
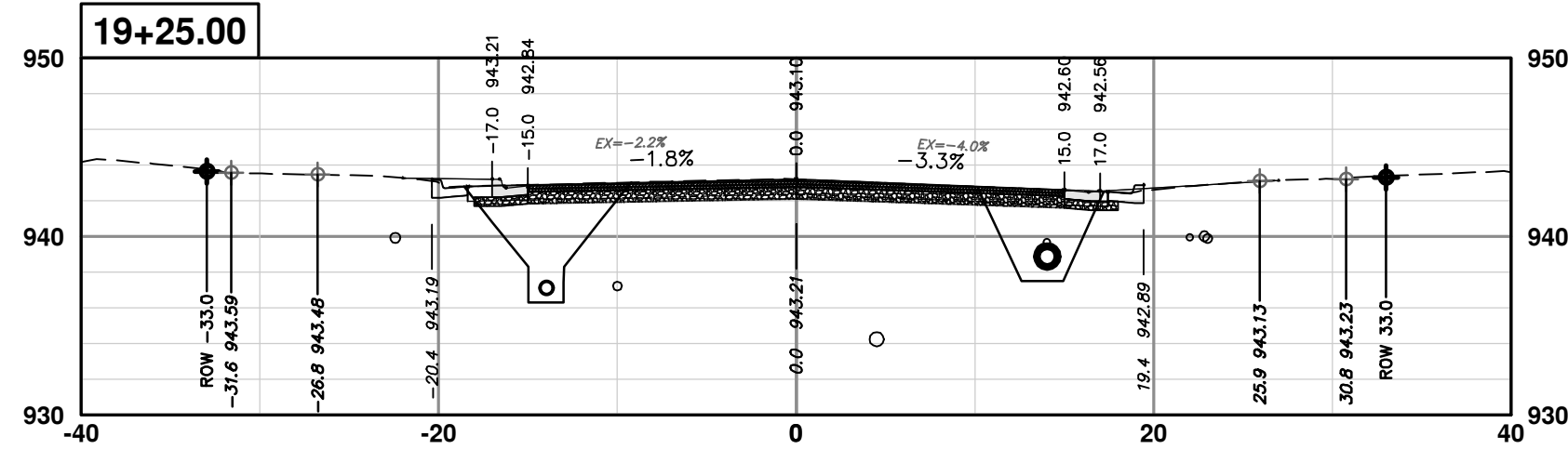
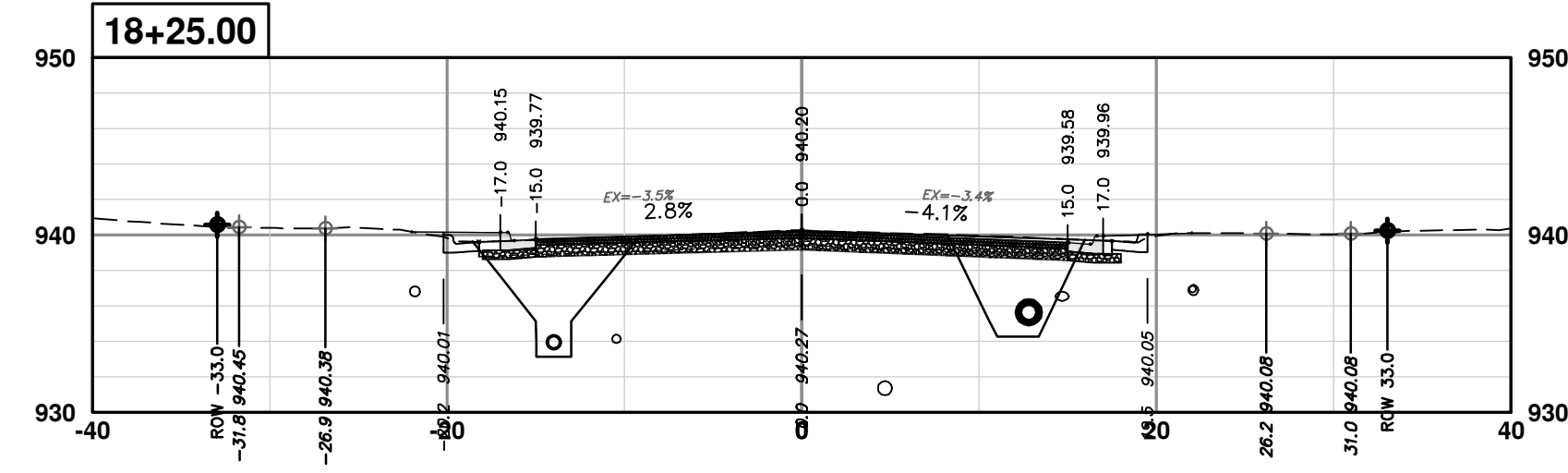
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CROSS-SECTIONS - GREENVIEW DRIVE NORTH  
STA. 14+25 - STA. 16+25

SCALE PLAN: 1" = 10'  
PROFILE: 1" = 10'  
DRAWING No. 2020031-88

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
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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

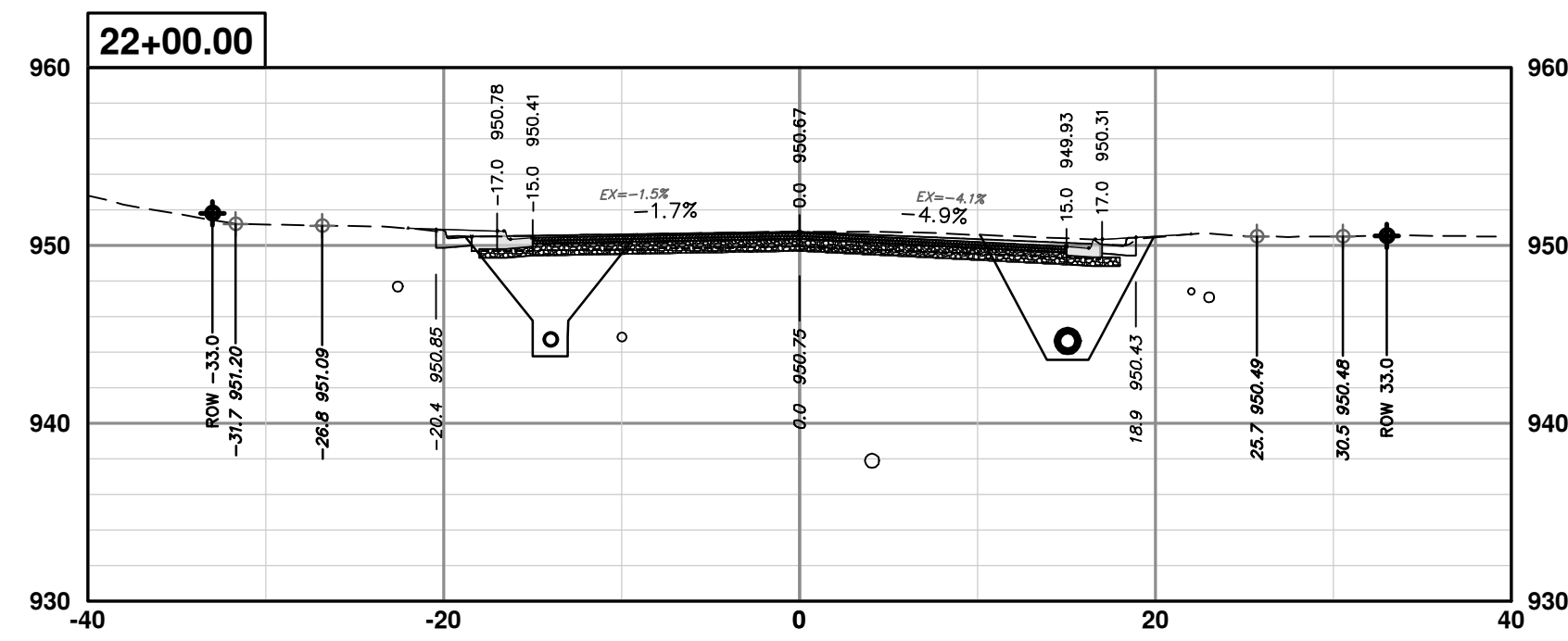
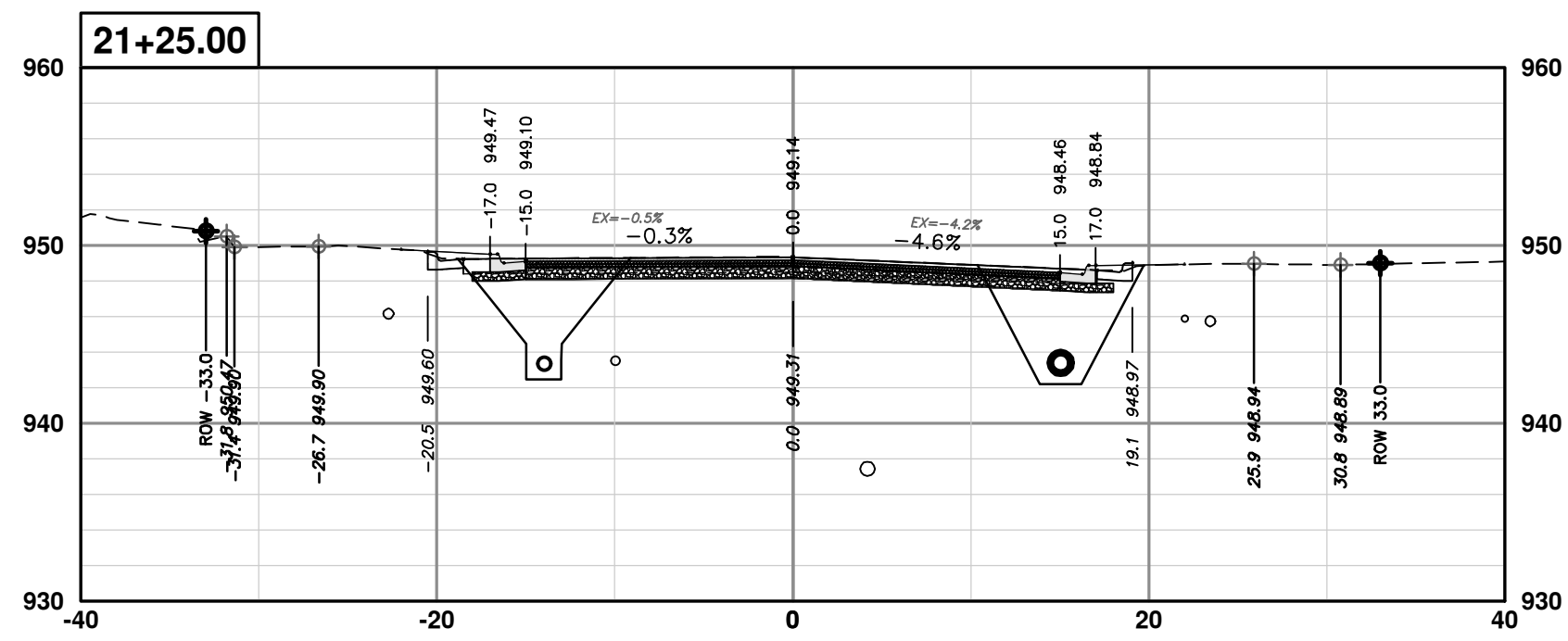
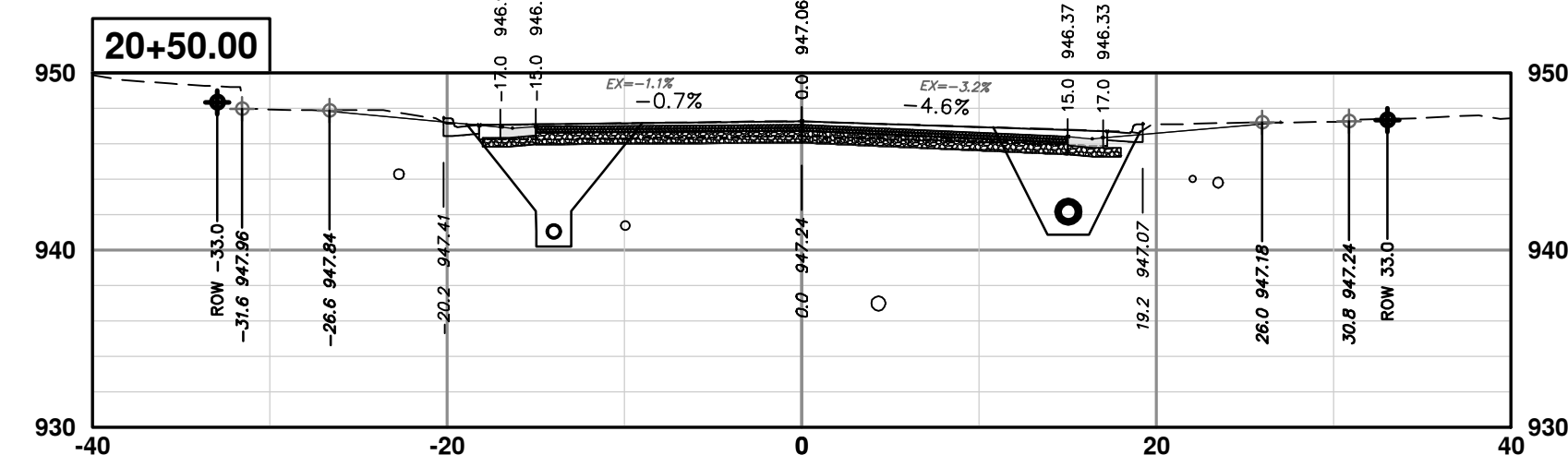
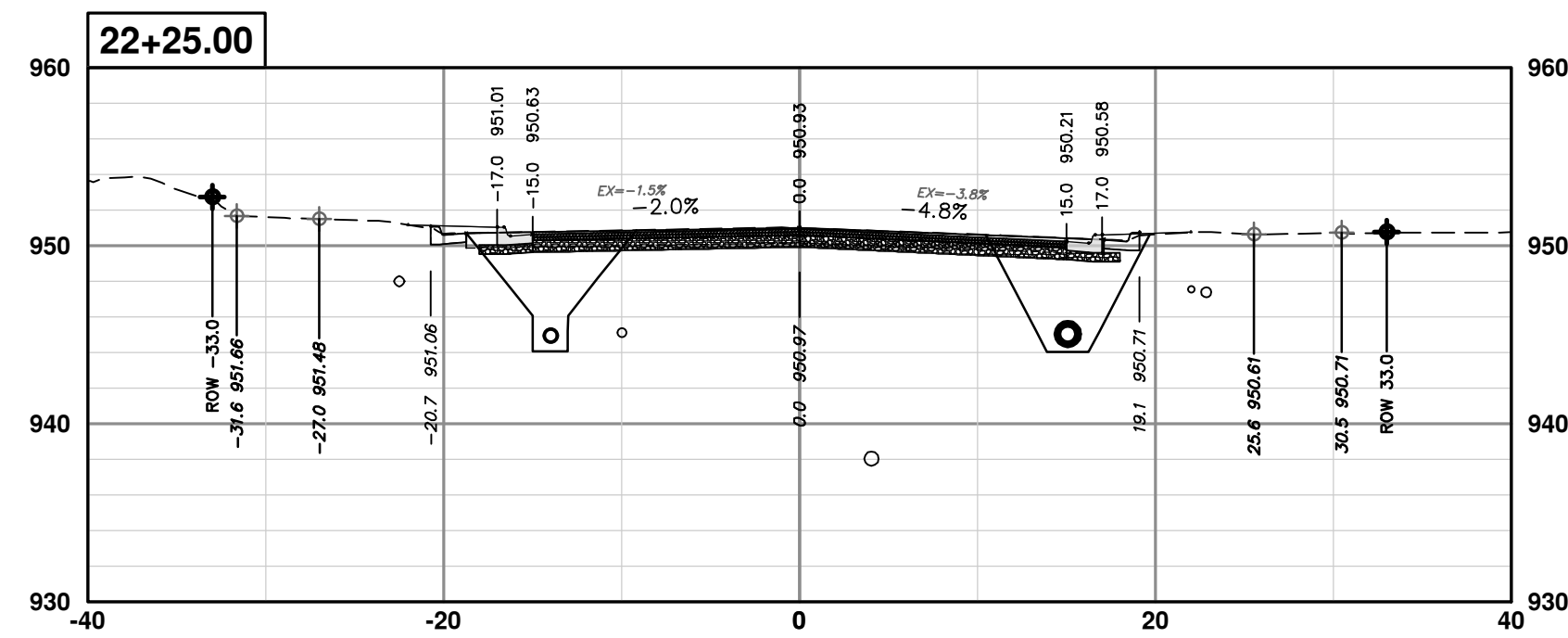
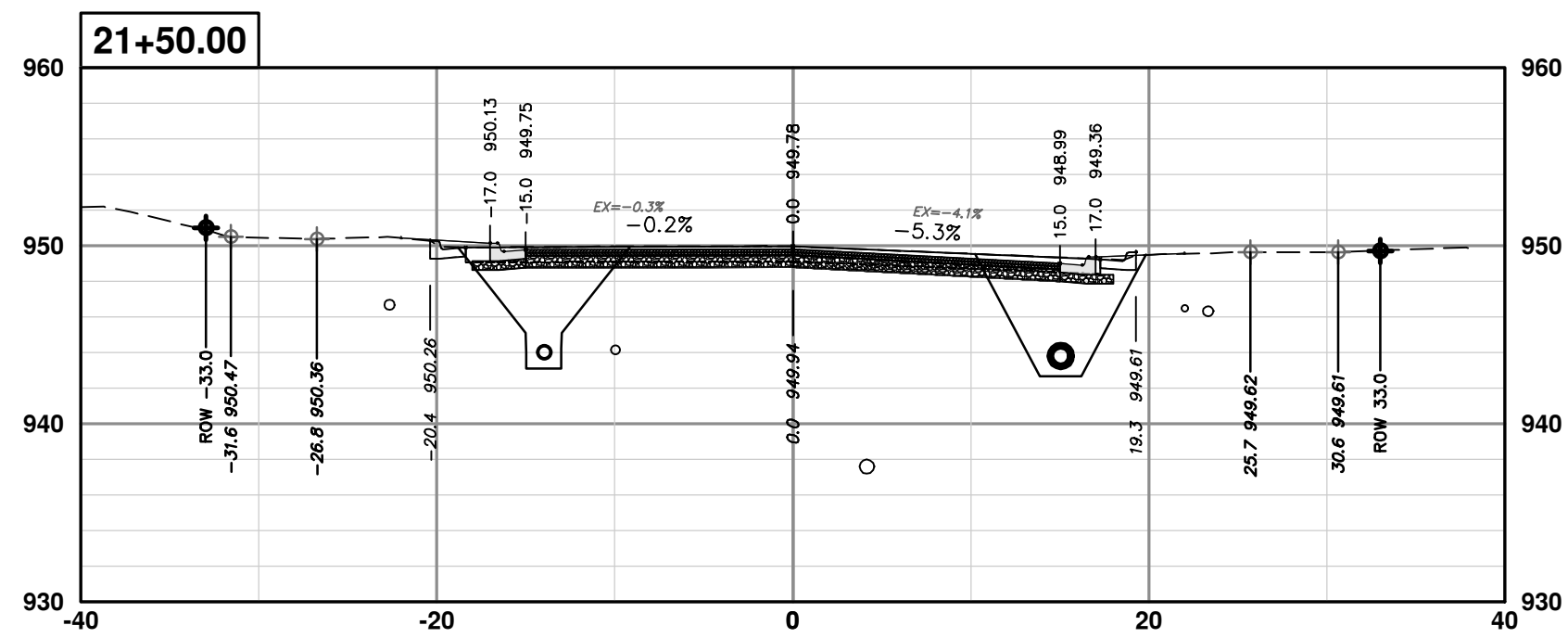
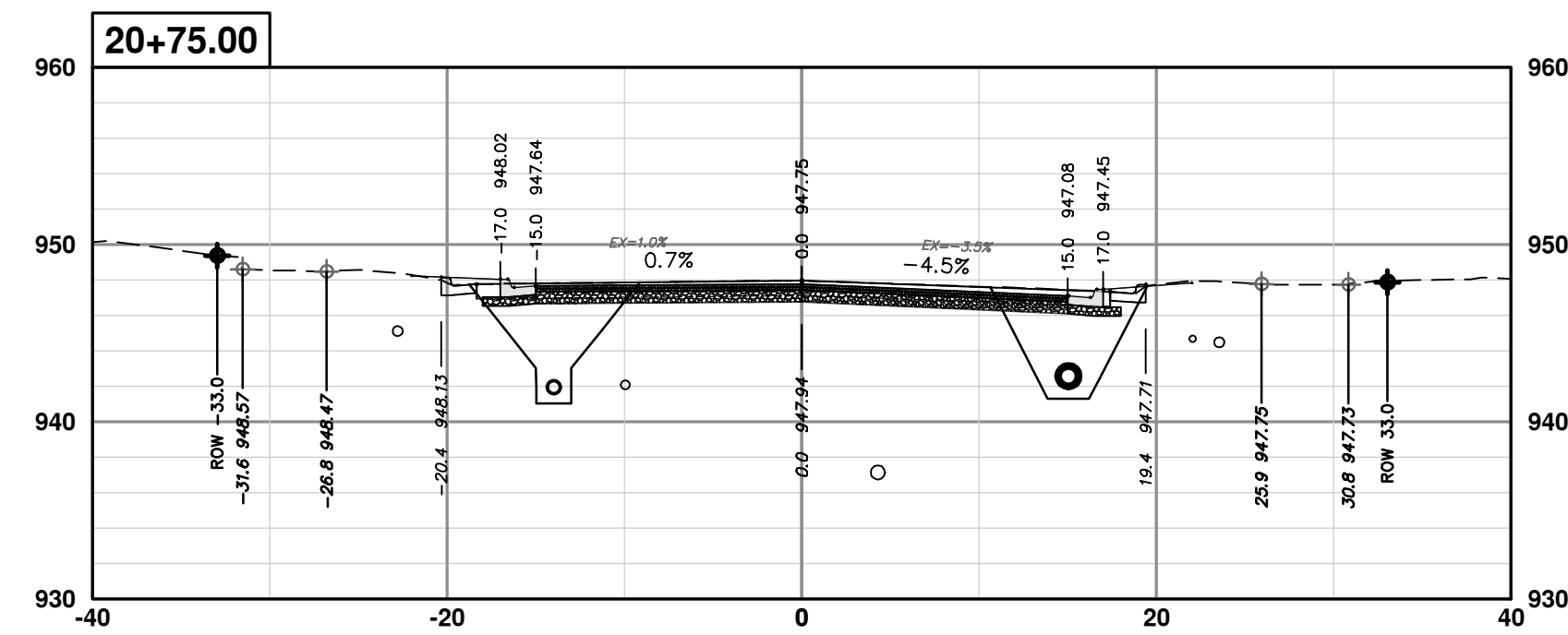
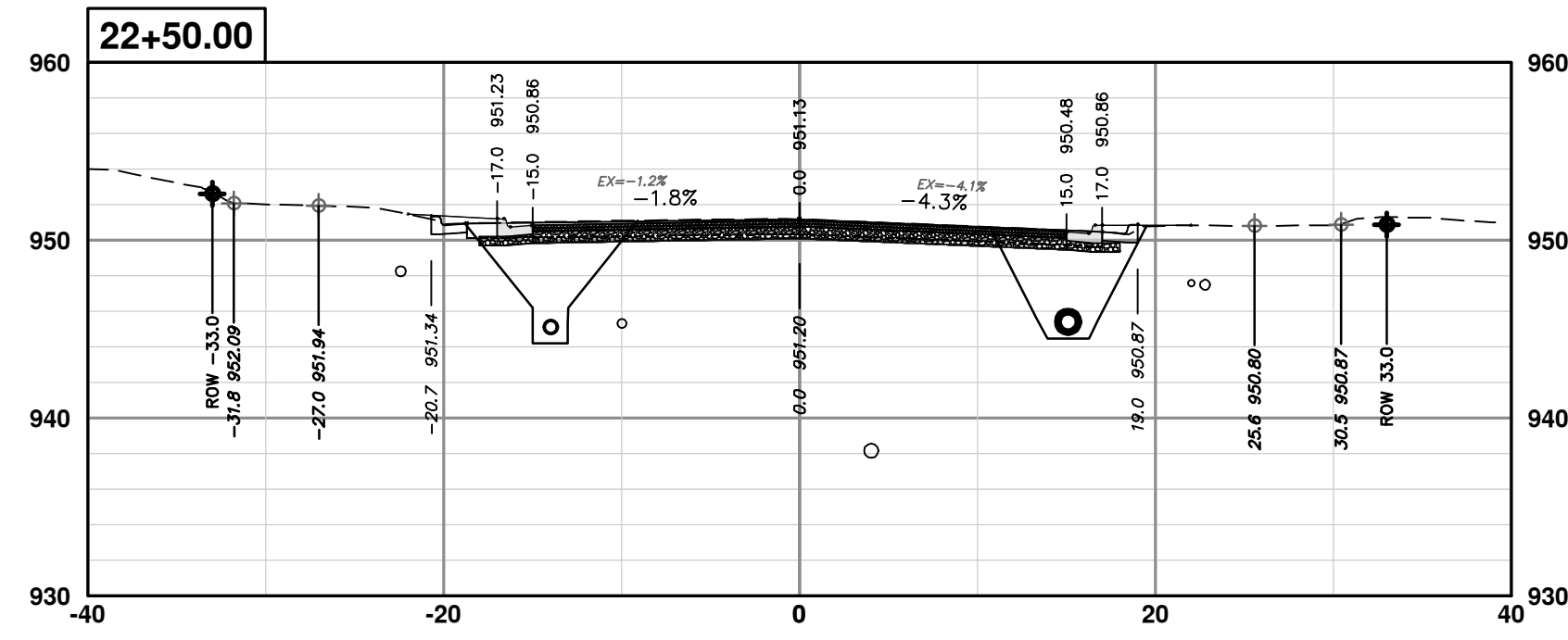
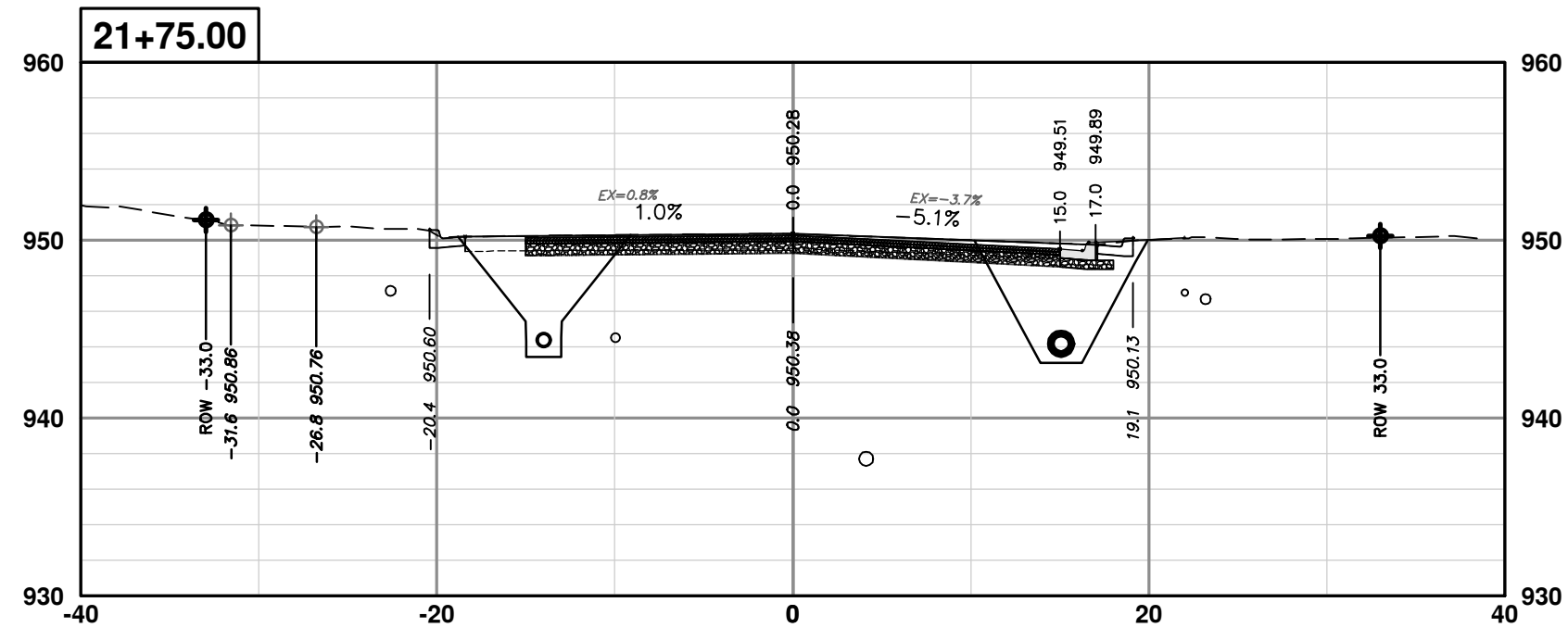
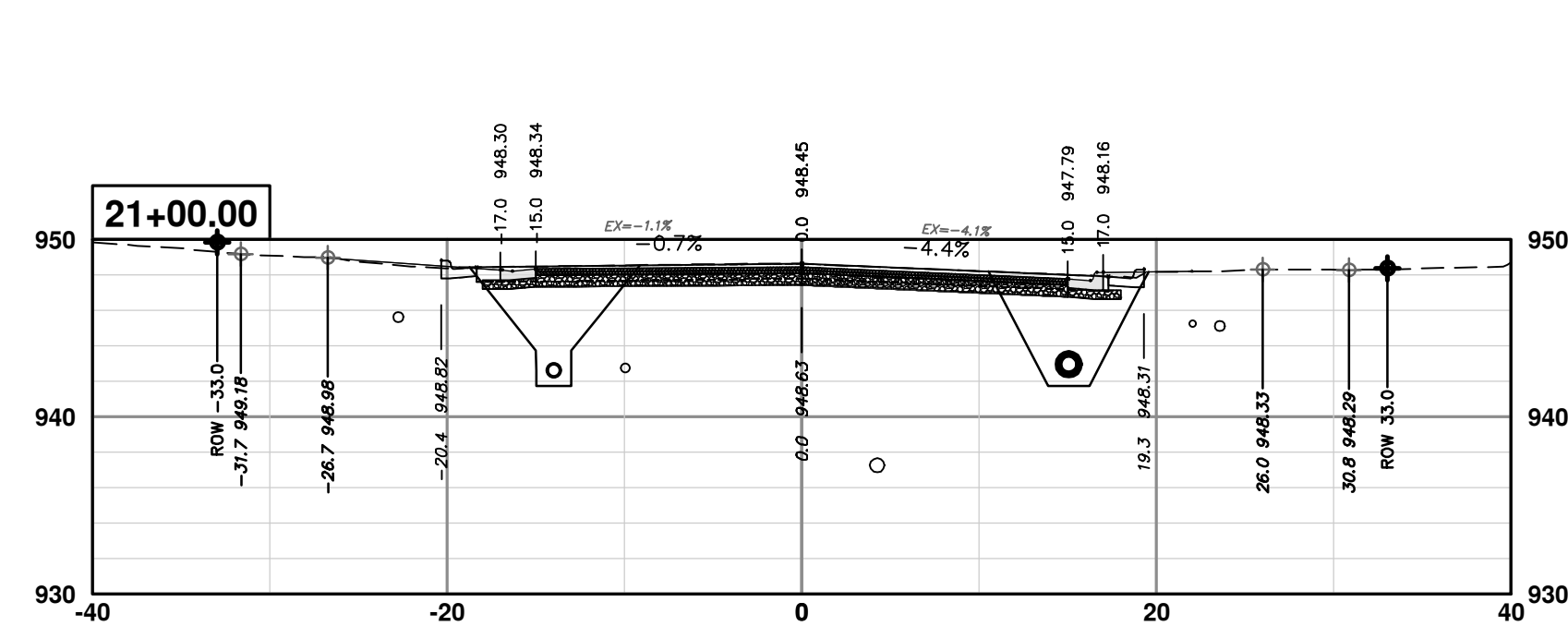
SHEET NO. 89 OF 92

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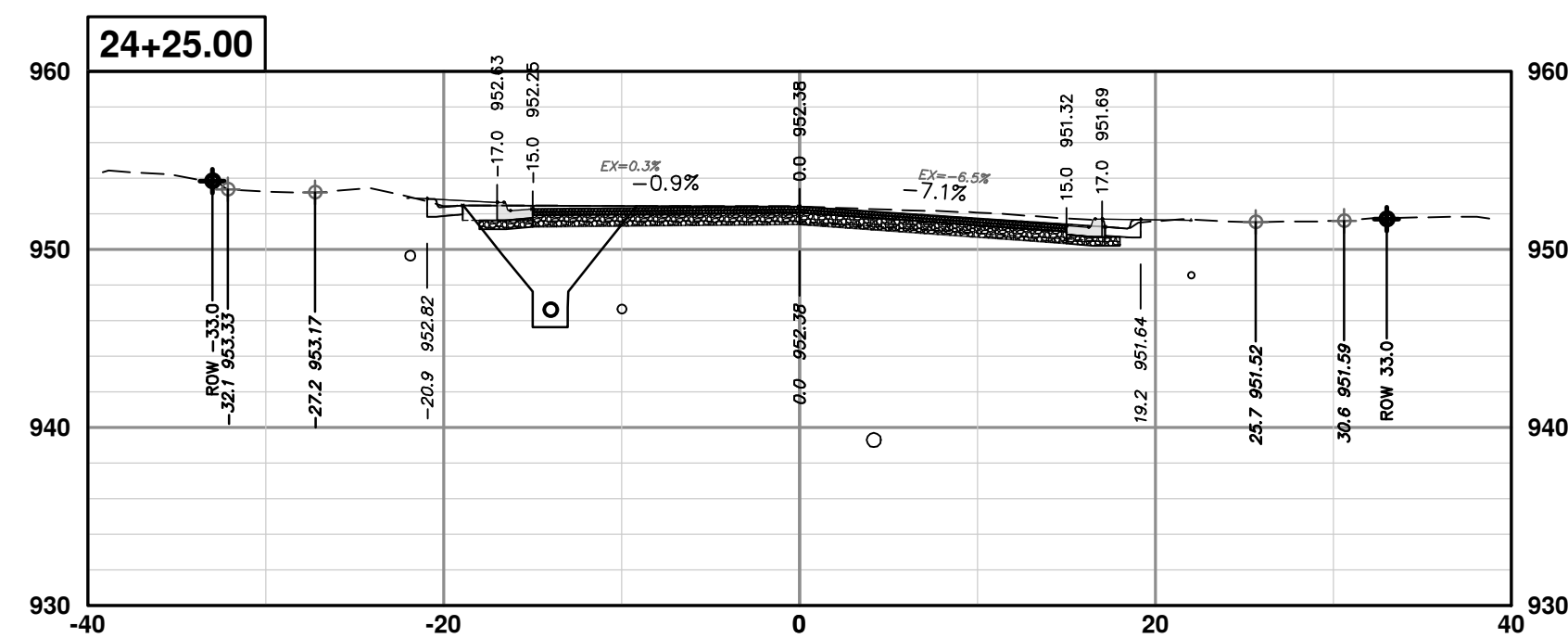
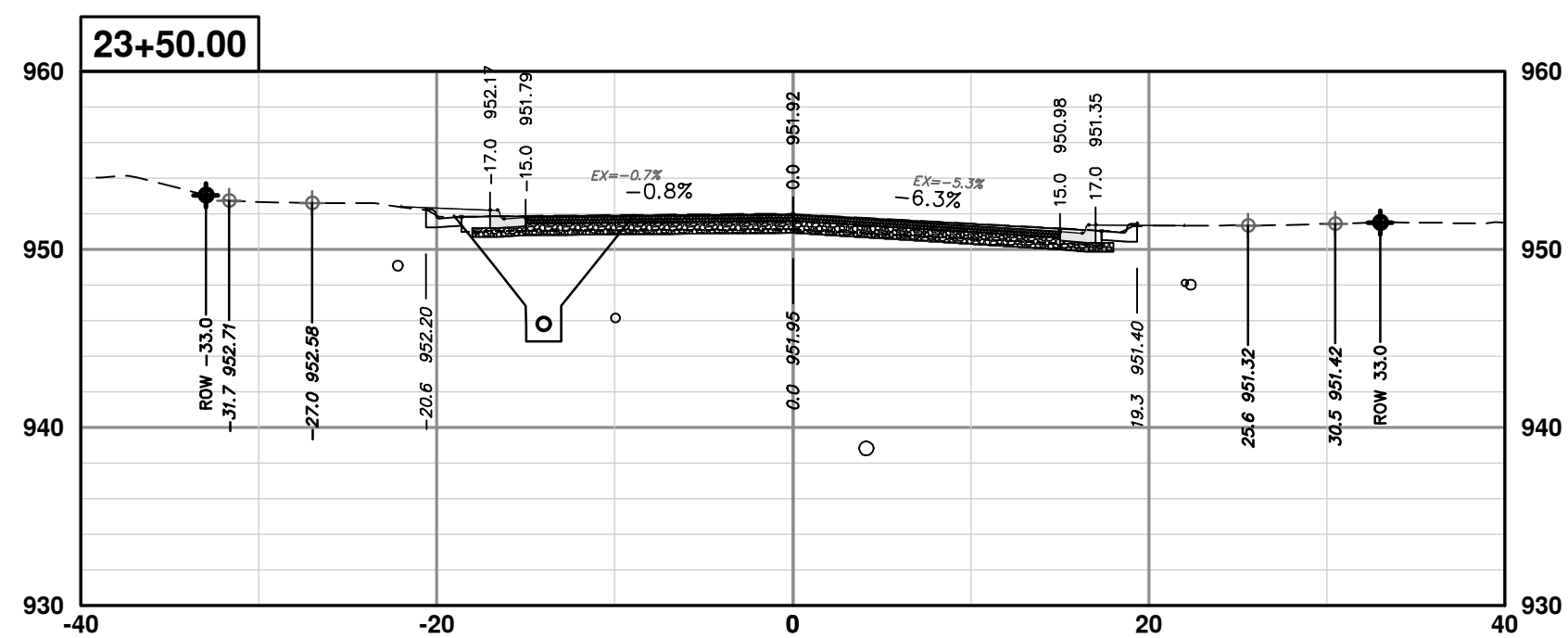
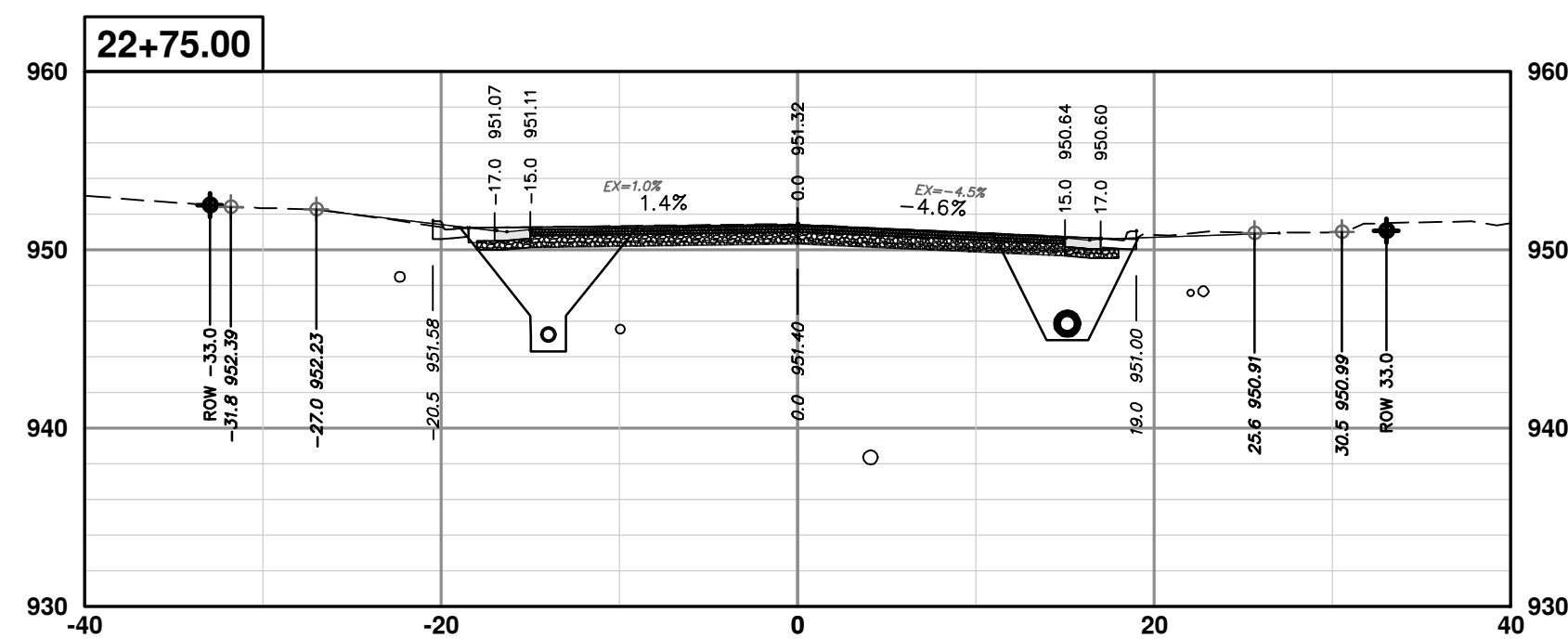
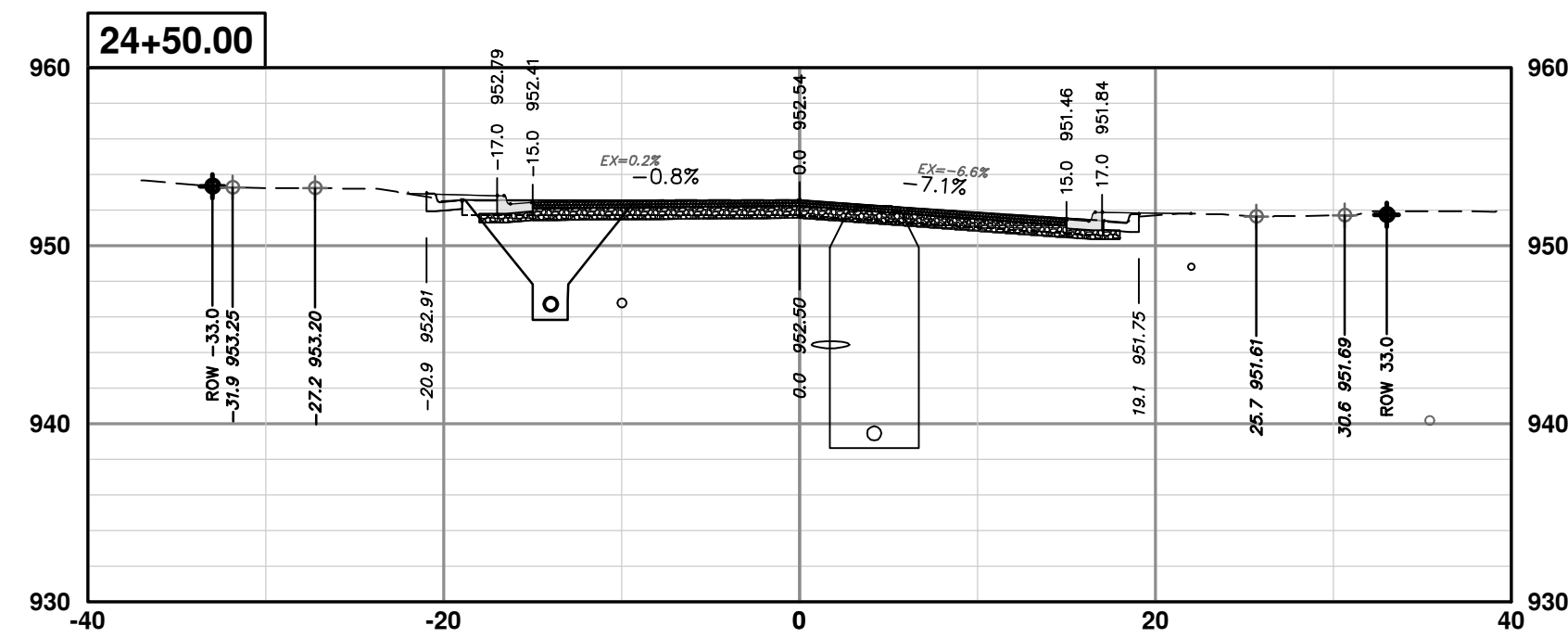
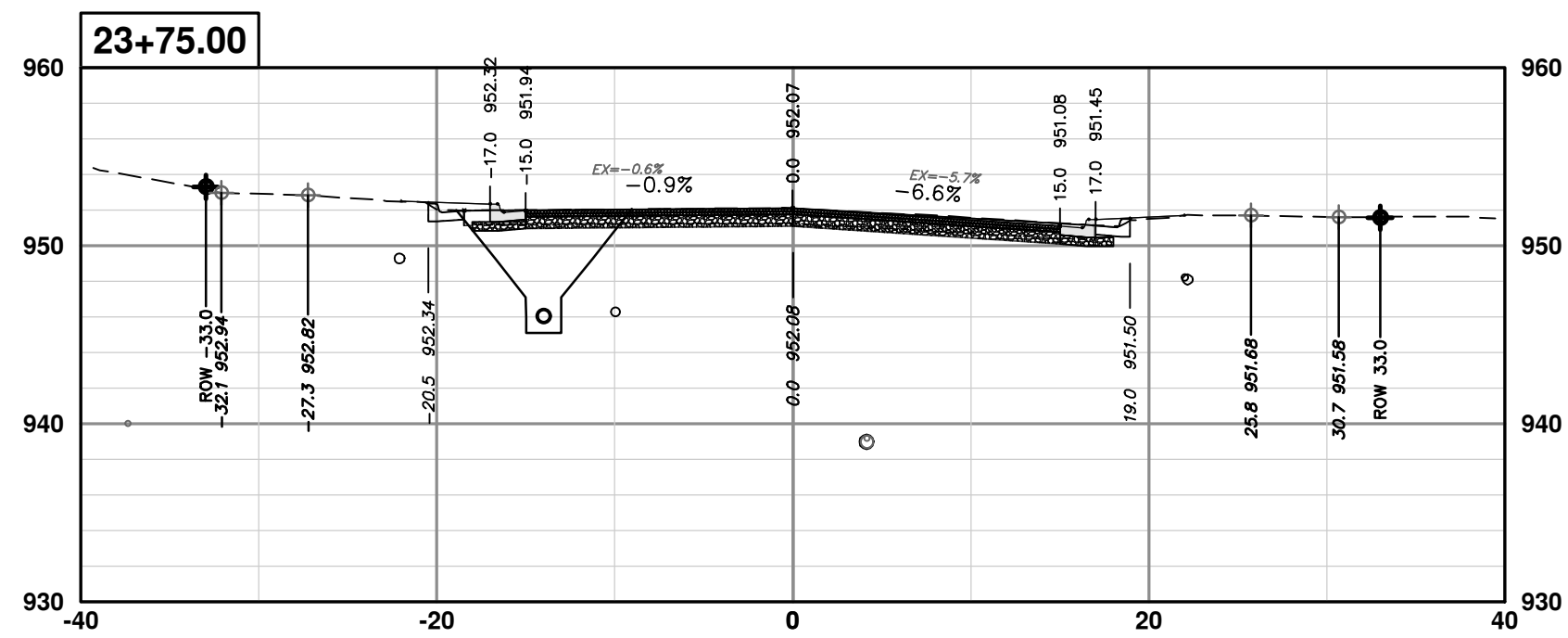
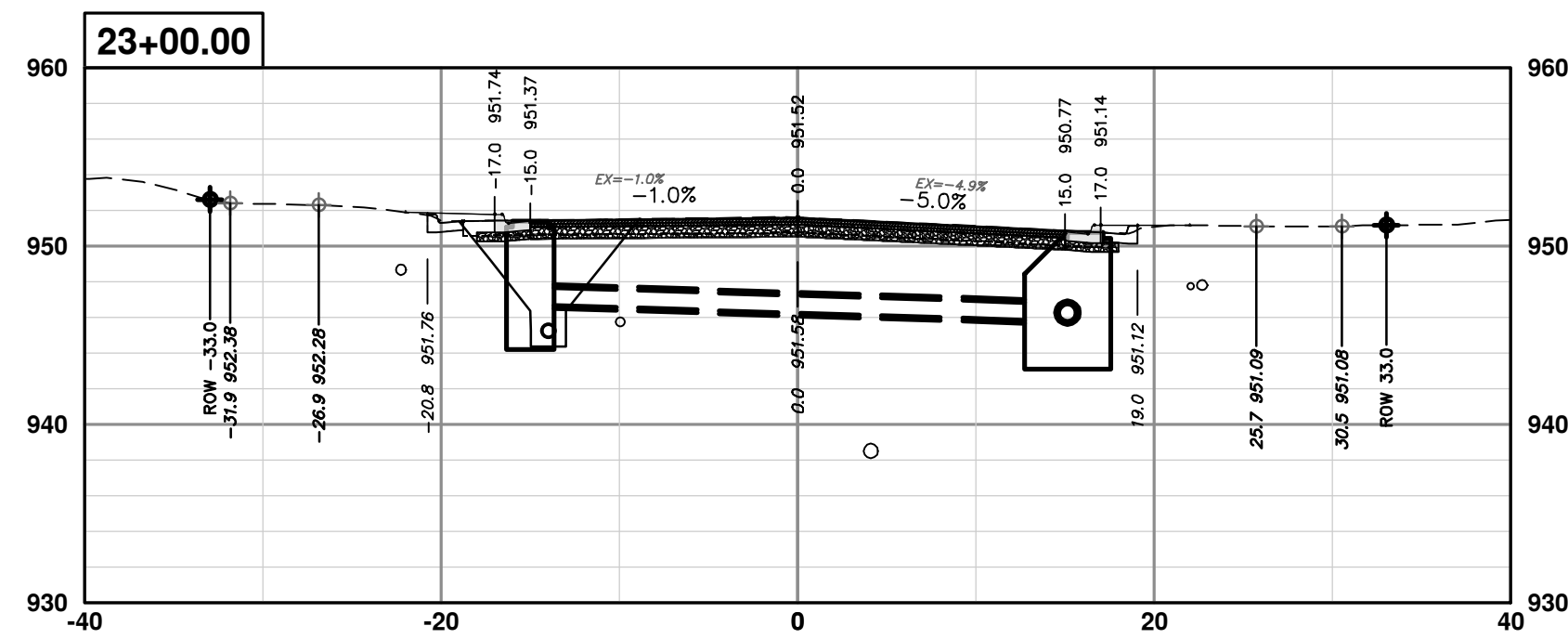
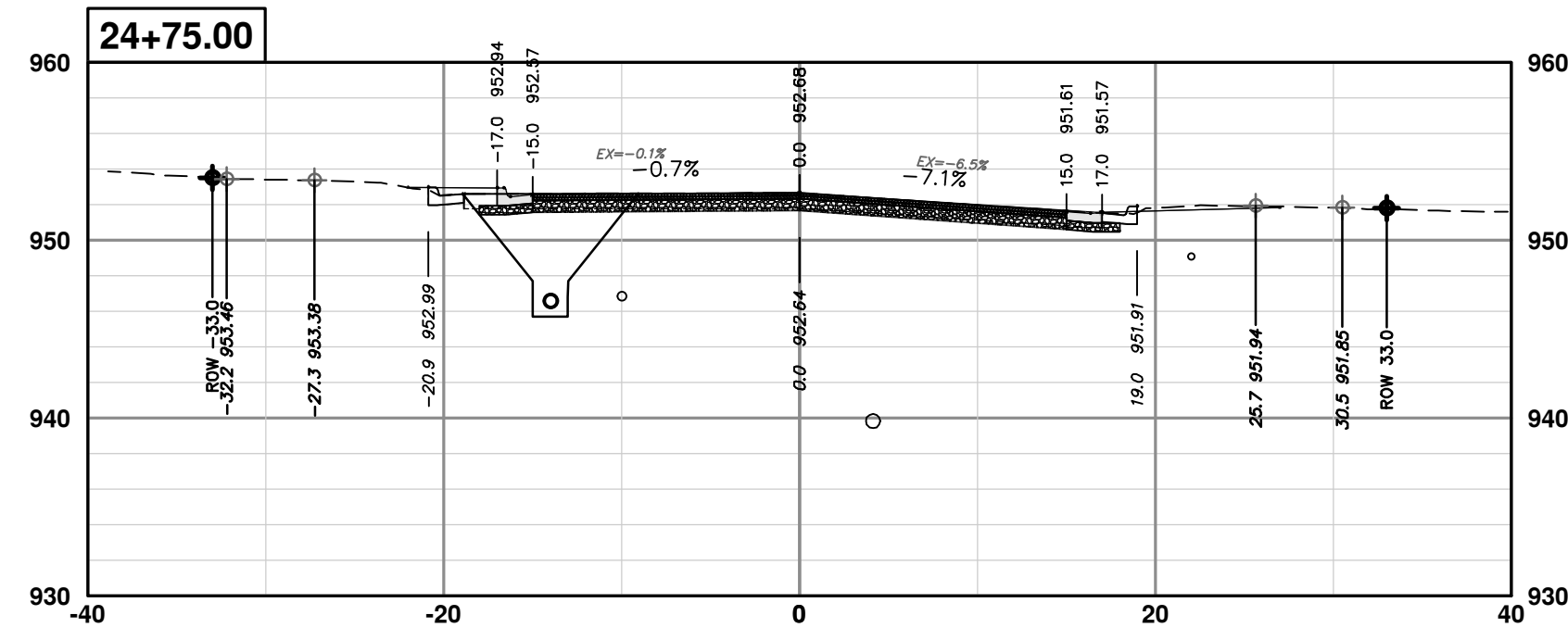
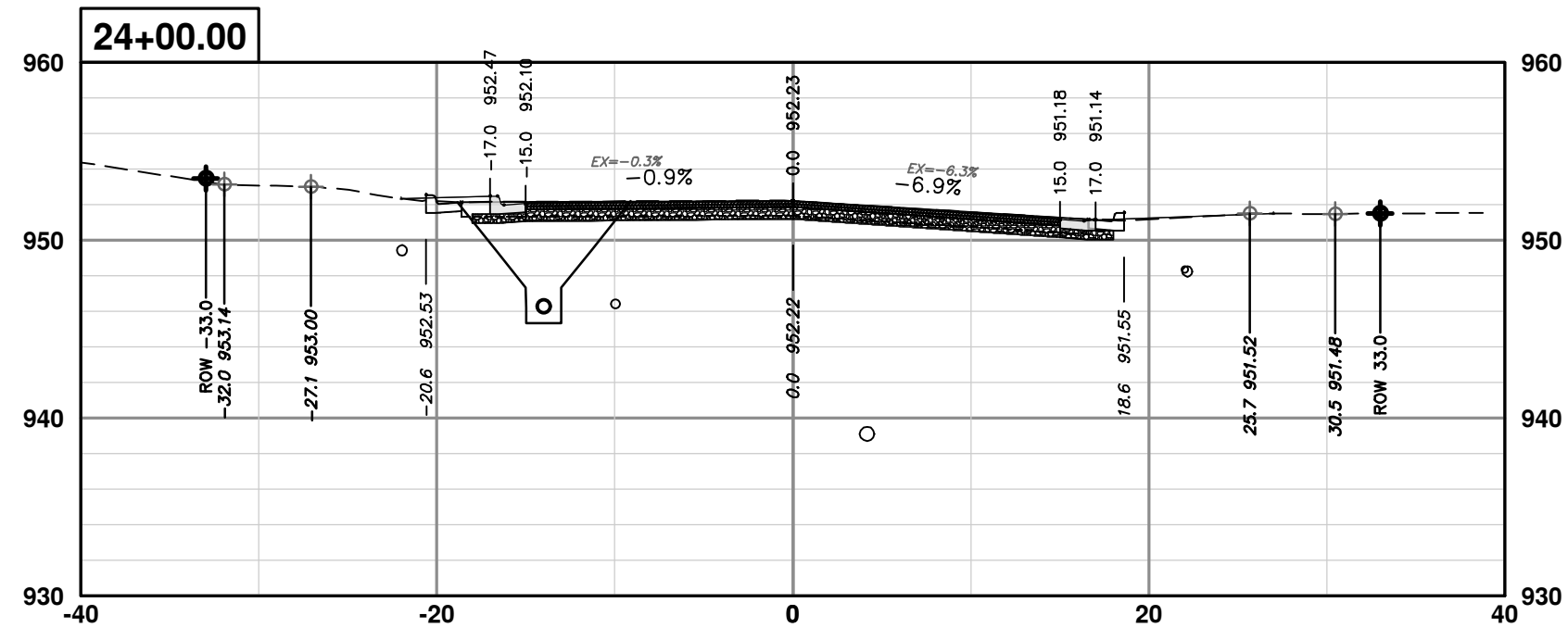
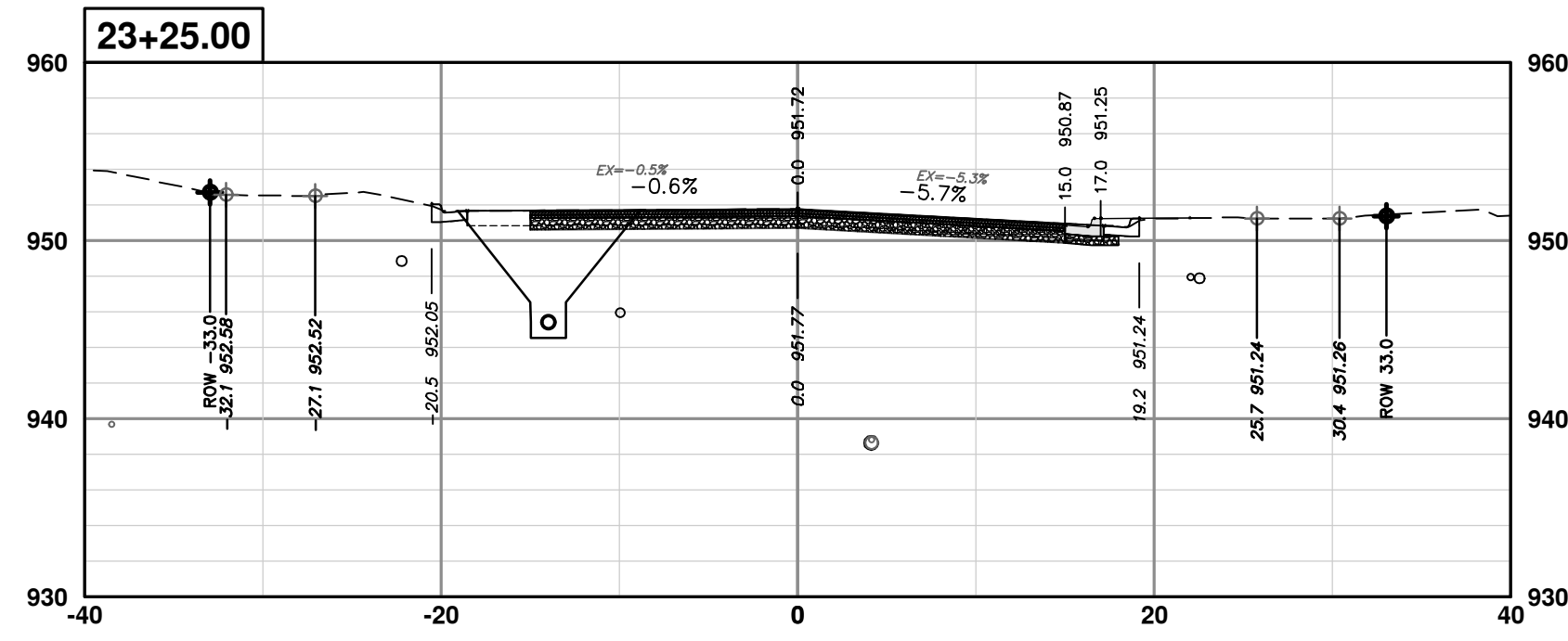
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00	BID SET	1-30-24	AZD	TA

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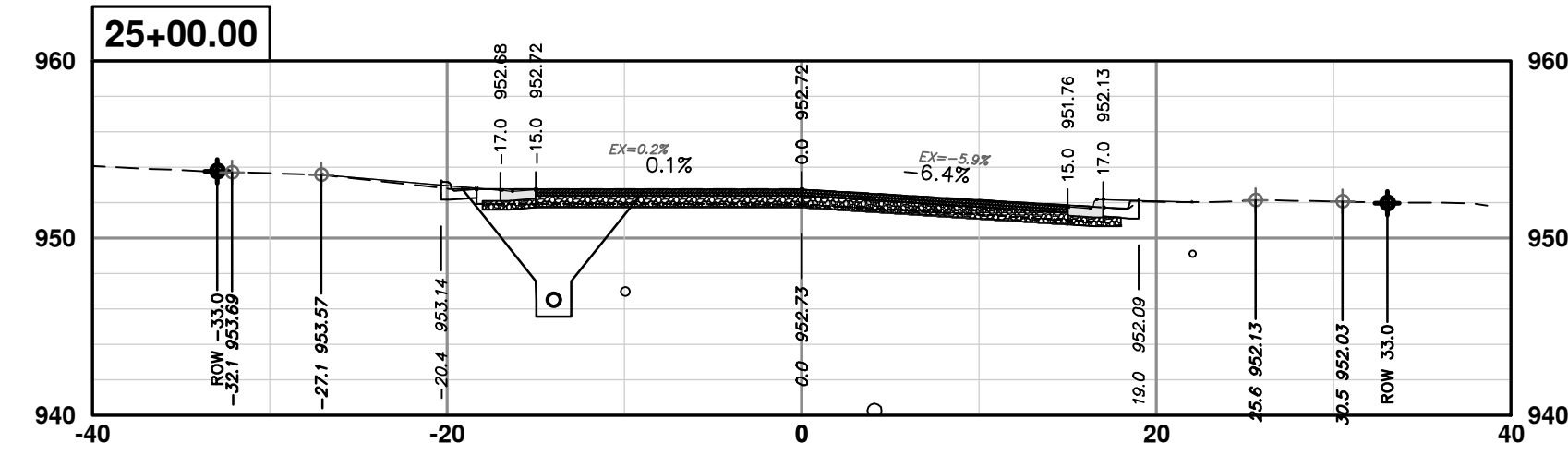
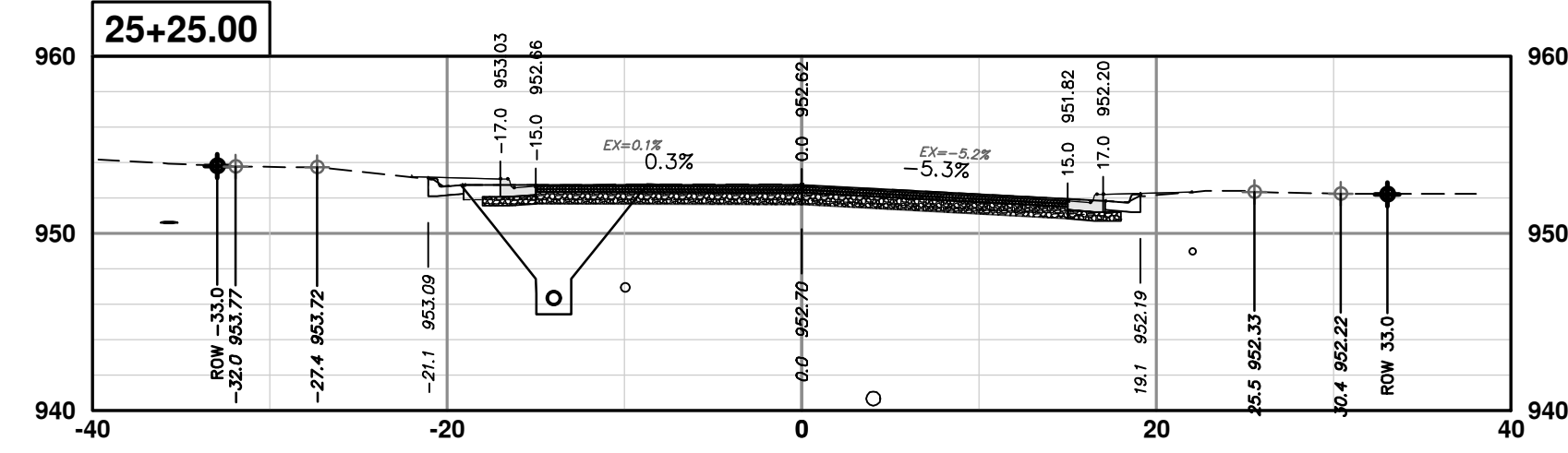
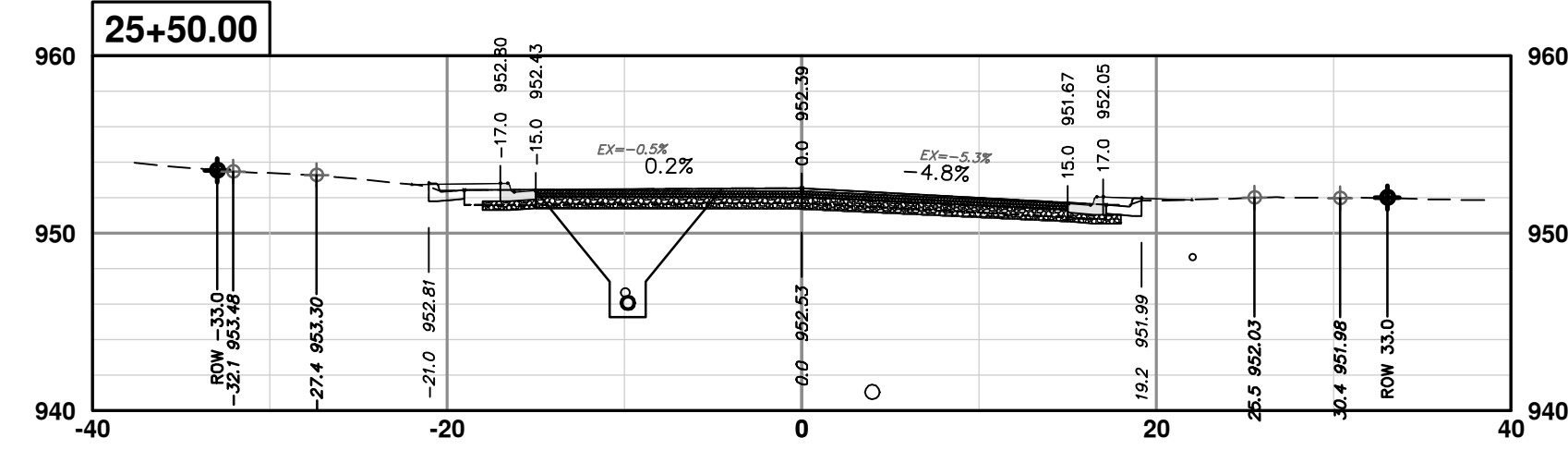
REV.	DESCRIPTION
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1-30-24	DATE
A2D	DRAWN
TA	CHECKED

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**S. SEVENTH ST. AND GREENVIEW DR. IMPROVEMENTS**  
CROSS-SECTIONS - GREENVIEW DRIVE NORTH  
STA. 22+75 - STA. 24+75

SCALE PLAN: 1" = 10'  
PROFILE: 1" = 10'  
DRAWING No. 2020031-91



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