



CITY OF ANN ARBOR ENGINEERING

2025 MISCELLANEOUS UTILITY PROJECTS

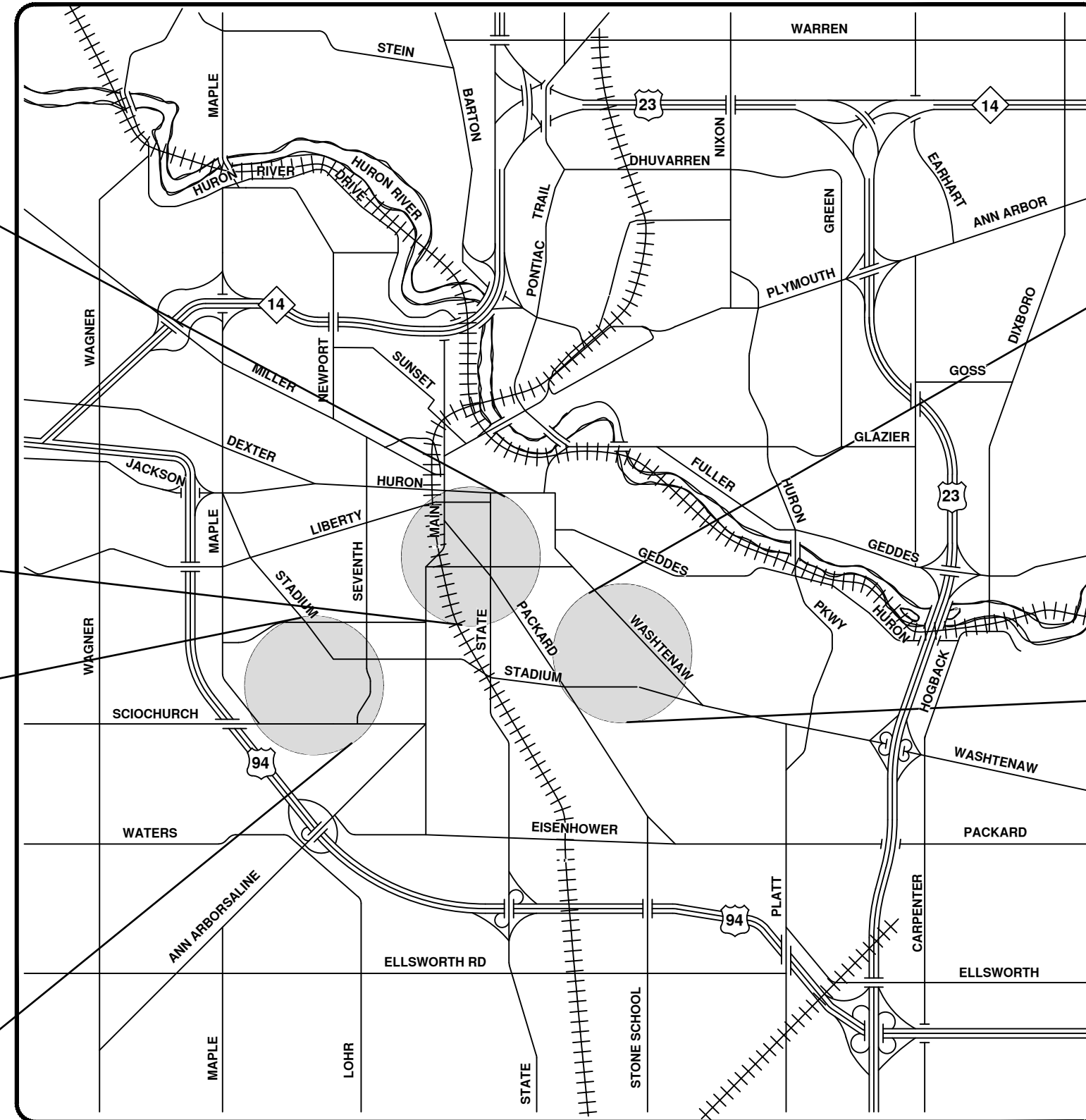
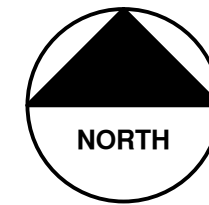
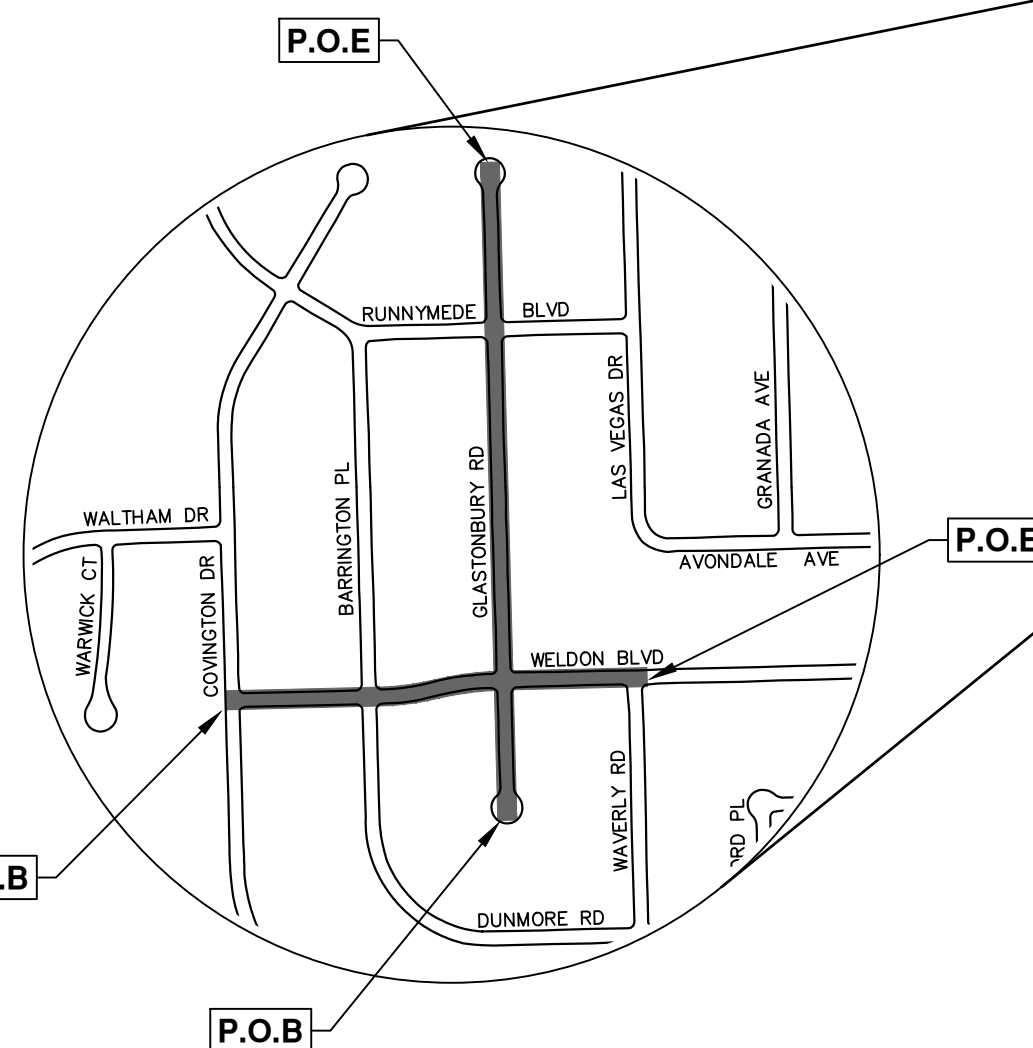
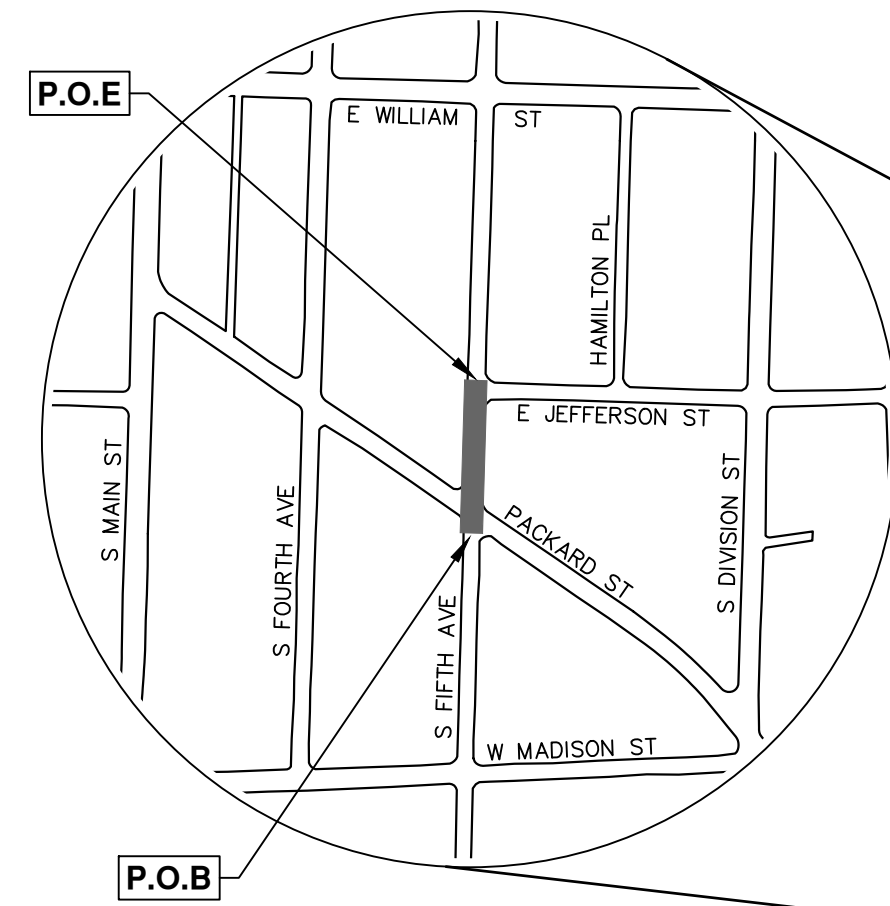
NOTES

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 NOT 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.

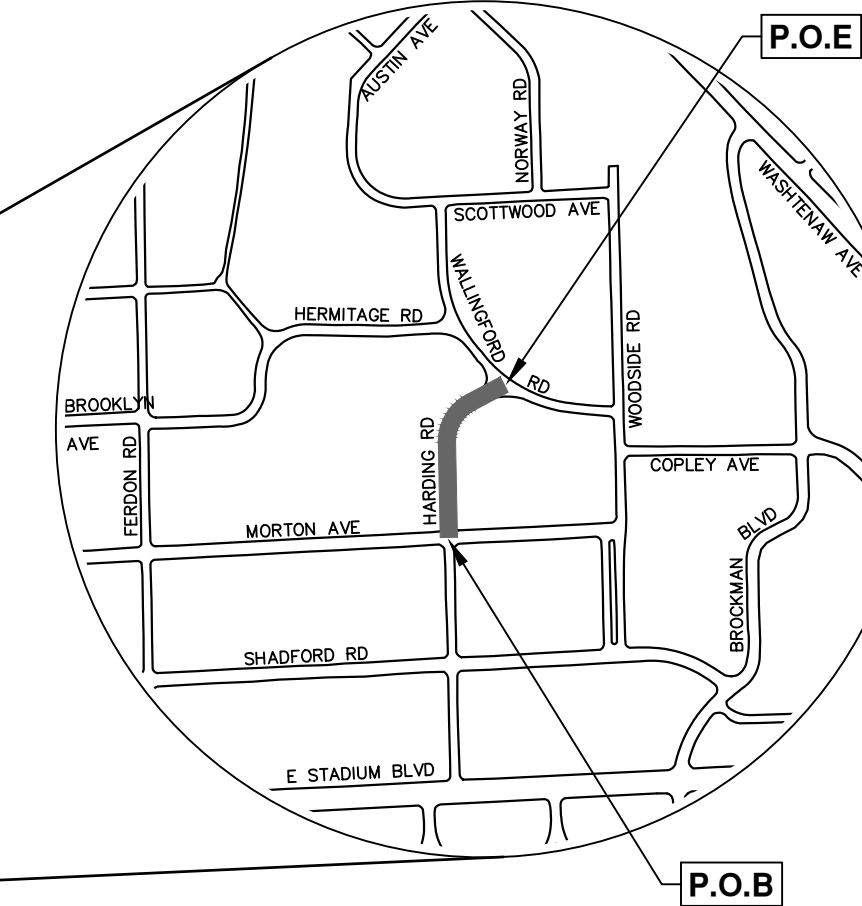
THE UNDERGROUND LOCATIONS SHOWN FOR NATURAL GAS, TELEPHONE, ELECTRICAL POWER, CABLE TV AND FIBER OPTIC LINES ARE APPROXIMATE. THE CITY OF ANN ARBOR ASSUMES NO RESPONSIBILITY FOR THEIR ACCURATE REPRESENTATION IN THIS DRAWING. MISS DIG MUST BE CONTACTED PRIOR TO CONSTRUCTION TO LOCATE THESE UTILITIES.

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.

RFP No. 25-01, FILE No. 2024006



VICINITY MAP



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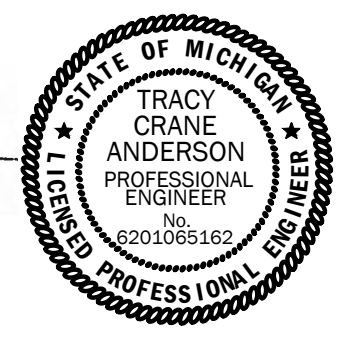
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THIS PROJECT INCLUDES WATER MAIN REPLACEMENT, STORM SEWER IMPROVEMENTS, SANITARY SEWER INSTALLATION AND REPLACEMENT, AND RESURFACING WITHIN THE RIGHT-OF-WAY OF HARDING RD (MORTON TO WALLINGFORD), GLASTONBURY RD (ENTIRETY), WELDON BLVD (CONVINGTON TO WAYERLY), AND FIFTH AVE (PACKARD TO JEFFERSON).

SCALE
DRAWING No. 2024006-1
SHEET No. 1 OF 52

PREPARED UNDER THE SUPERVISION OF
Tracy Anderson
TRACY ANDERSON, P.E. - MI LICENSE No. 6201065162
PROJECT MANAGER

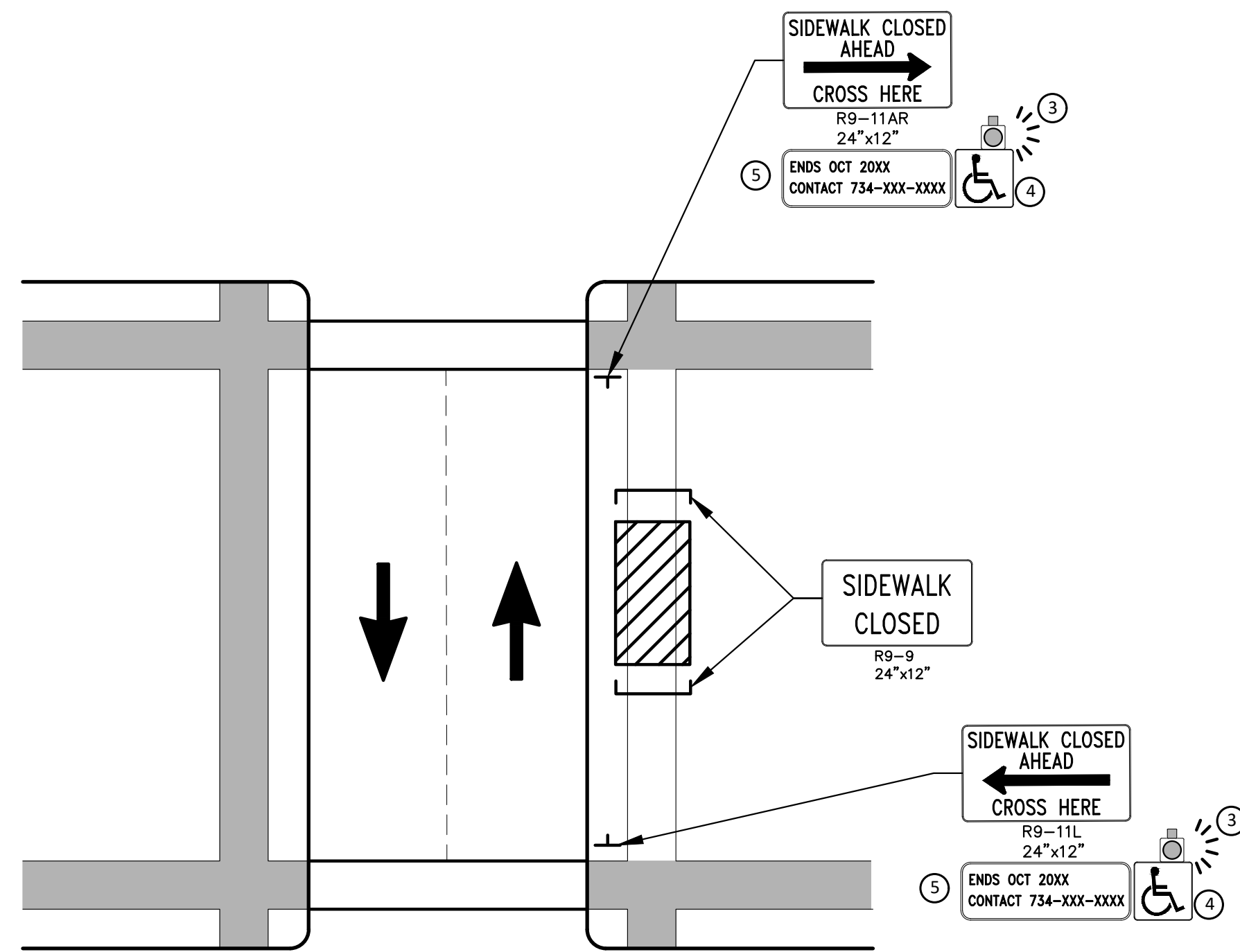


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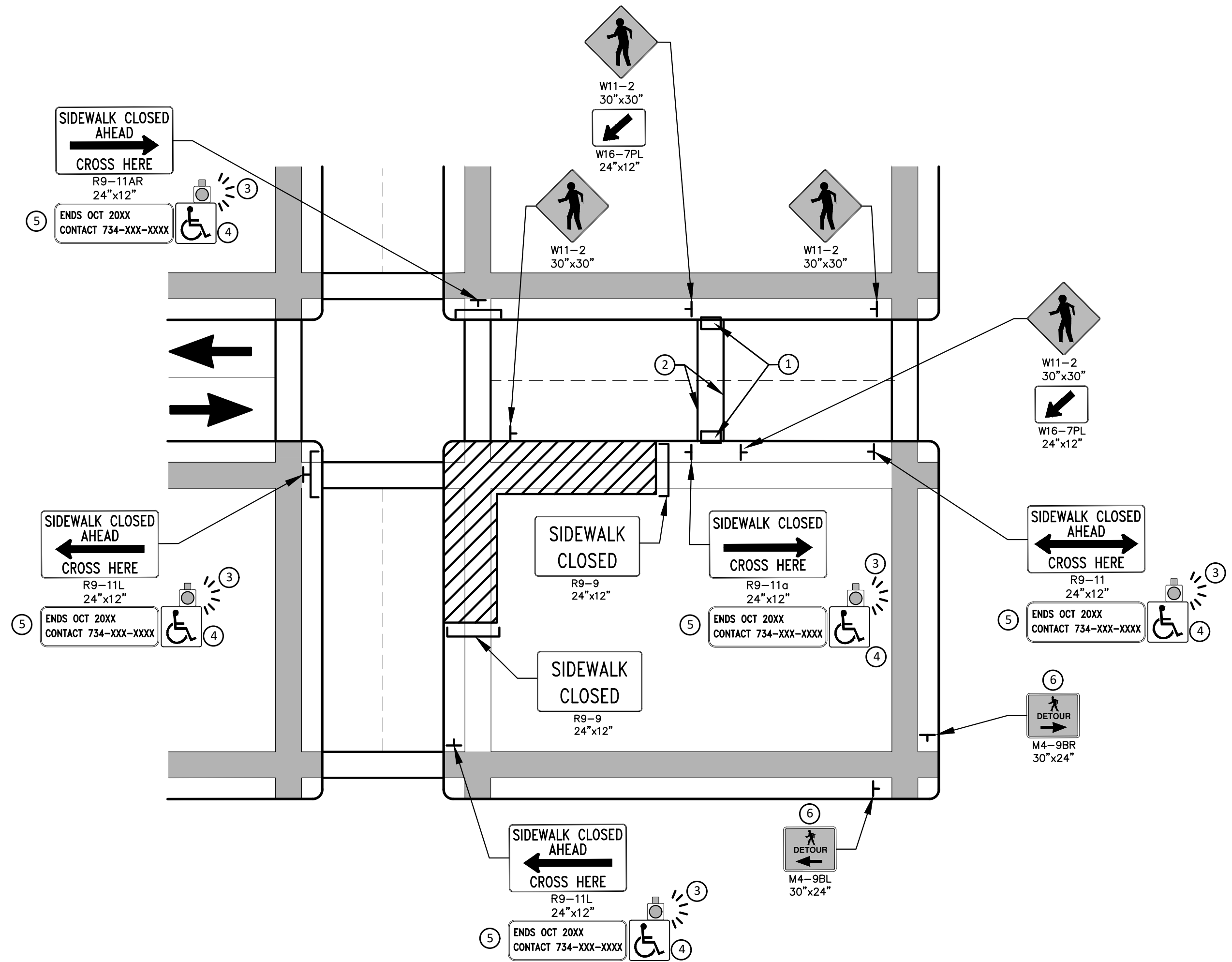
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PEDESTRIAN DETOUR USING OPPOSITE SIDE OF STREET



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.
8. PROVISION OF THE TPAR AND ALL OF ITS ELEMENTS, INCLUDING BUT NOT LIMITED TO, CREATION OF THE TEMPORARY PEDESTRIAN CONTROL PLAN, SIGNS, CHANNELIZING DEVICES, BARRICADES, TEMPORARY PAVEMENT MARKINGS AND OTHER TRAFFIC CONTROL DEVICES SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE ITEM OF WORK "MINOR TRAF DEVICES."

LEGEND

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



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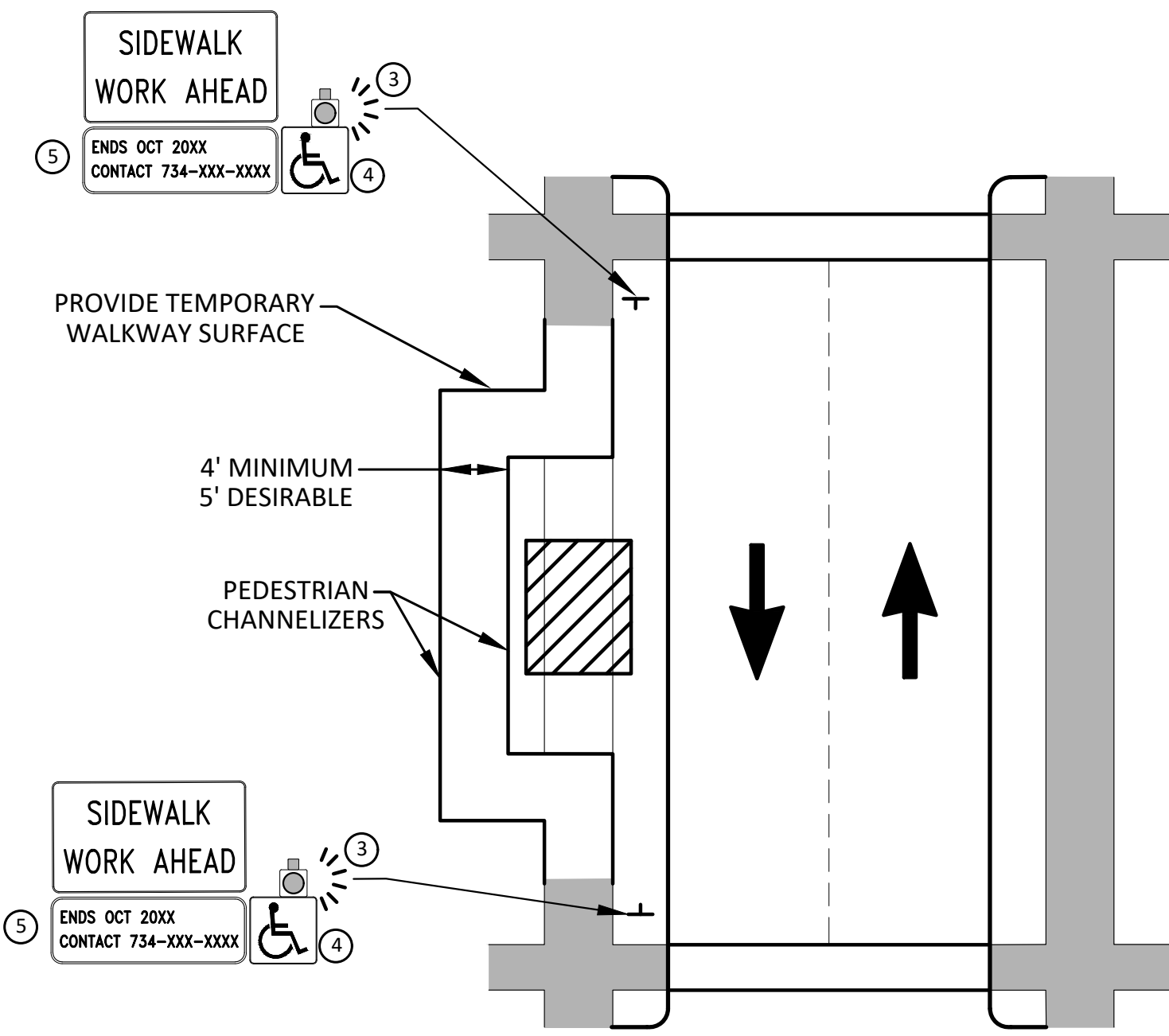
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2025 MISCELLANEOUS UTILITY PROJECTS
ALTERNATE PEDESTRIAN ROUTE (APR) DETOUR

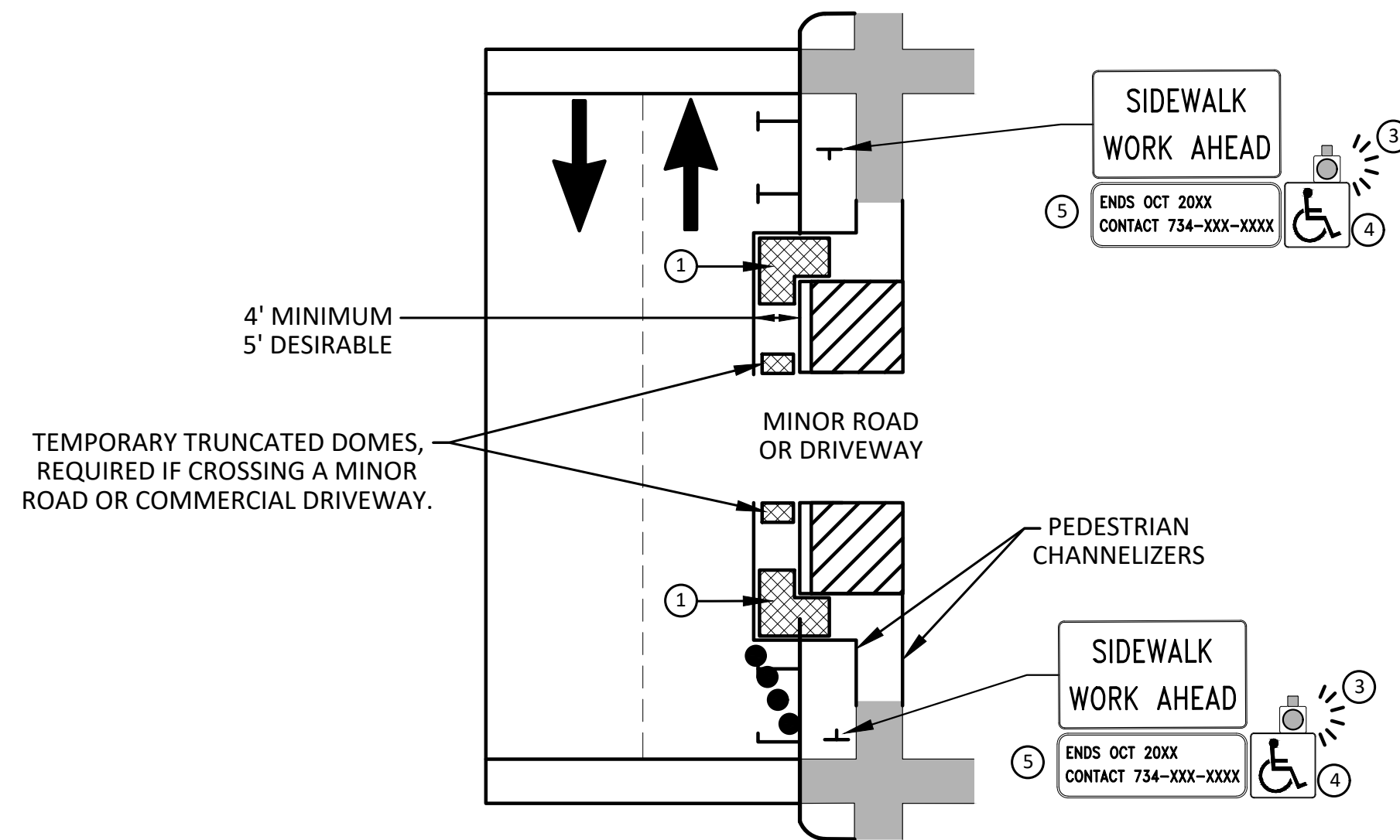
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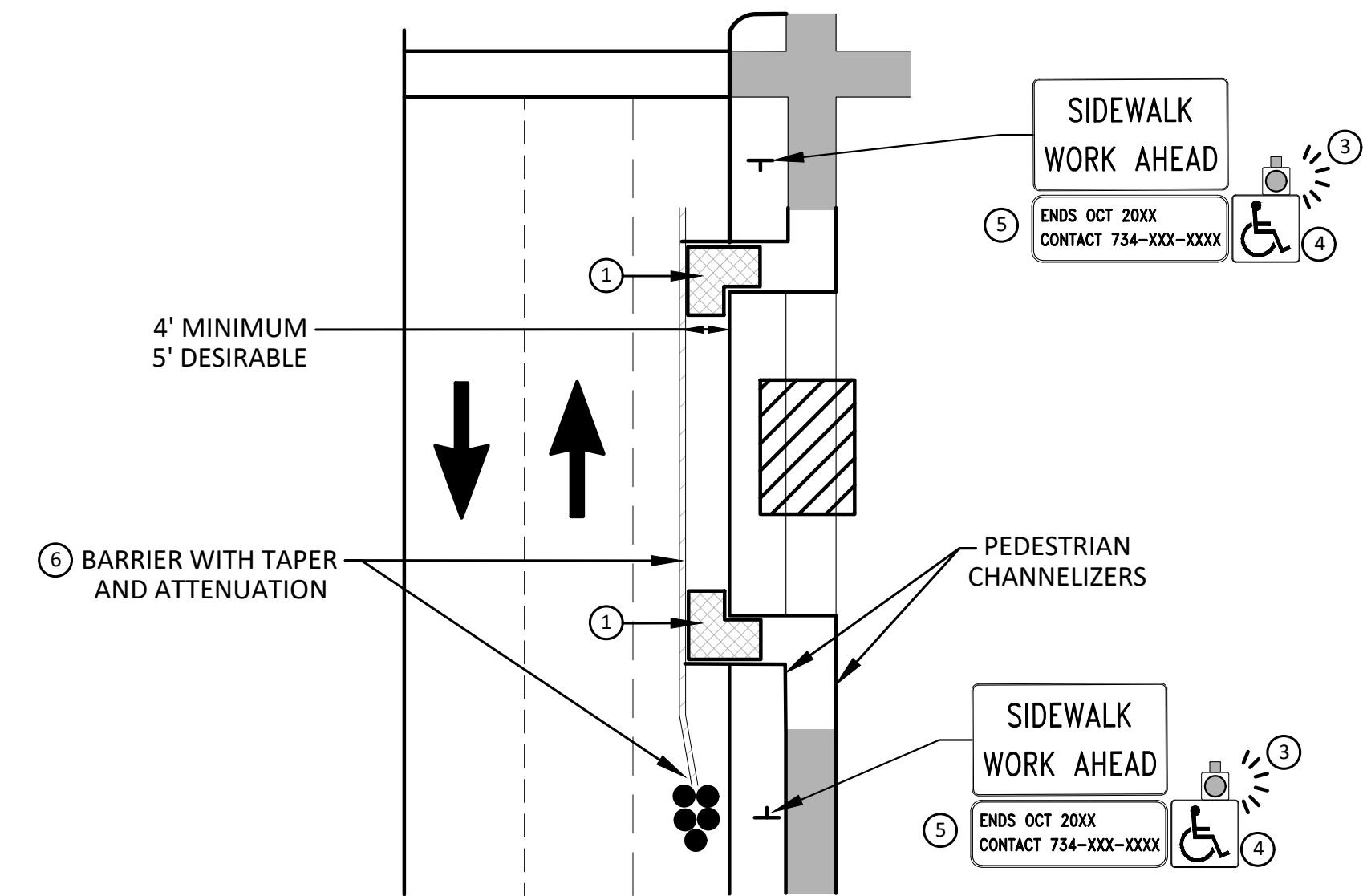


**BYPASS ON ADJACENT AVAILABLE
RIGHT OF WAY**
BYPASS TYPE A

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



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



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

GENERAL NOTES

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

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

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

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

SPECIFIC NOTES

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

LEGEND

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



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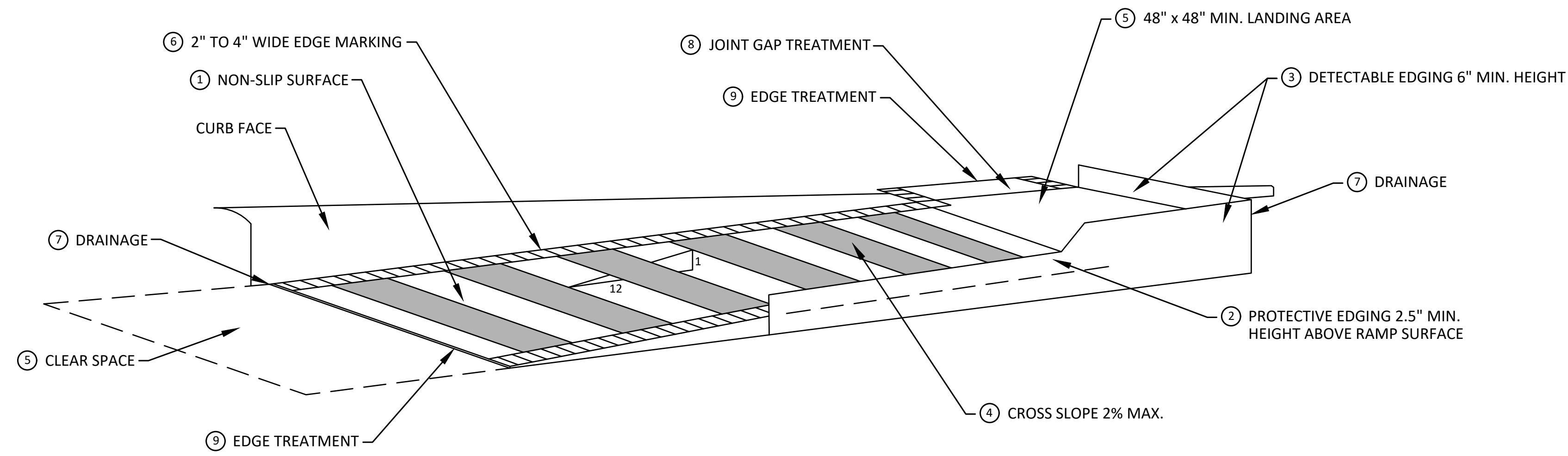
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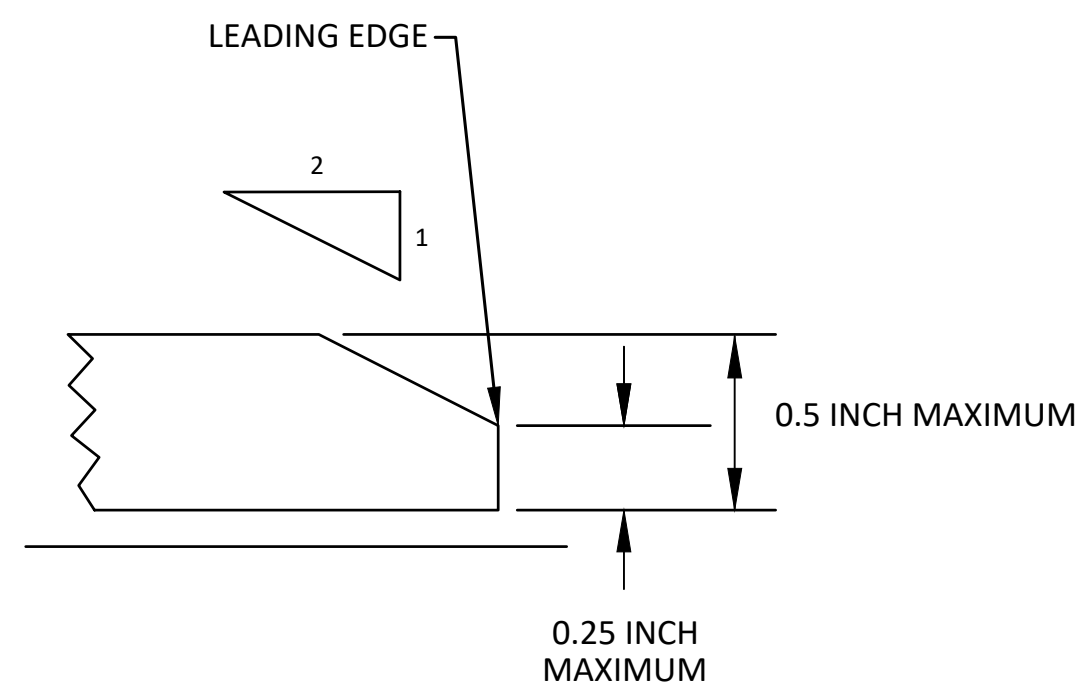
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2025 MISCELLANEOUS UTILITY PROJECTS
ALTERNATE PEDESTRIAN ROUTE (APR) BYPASS

SCALE: N.T.S.
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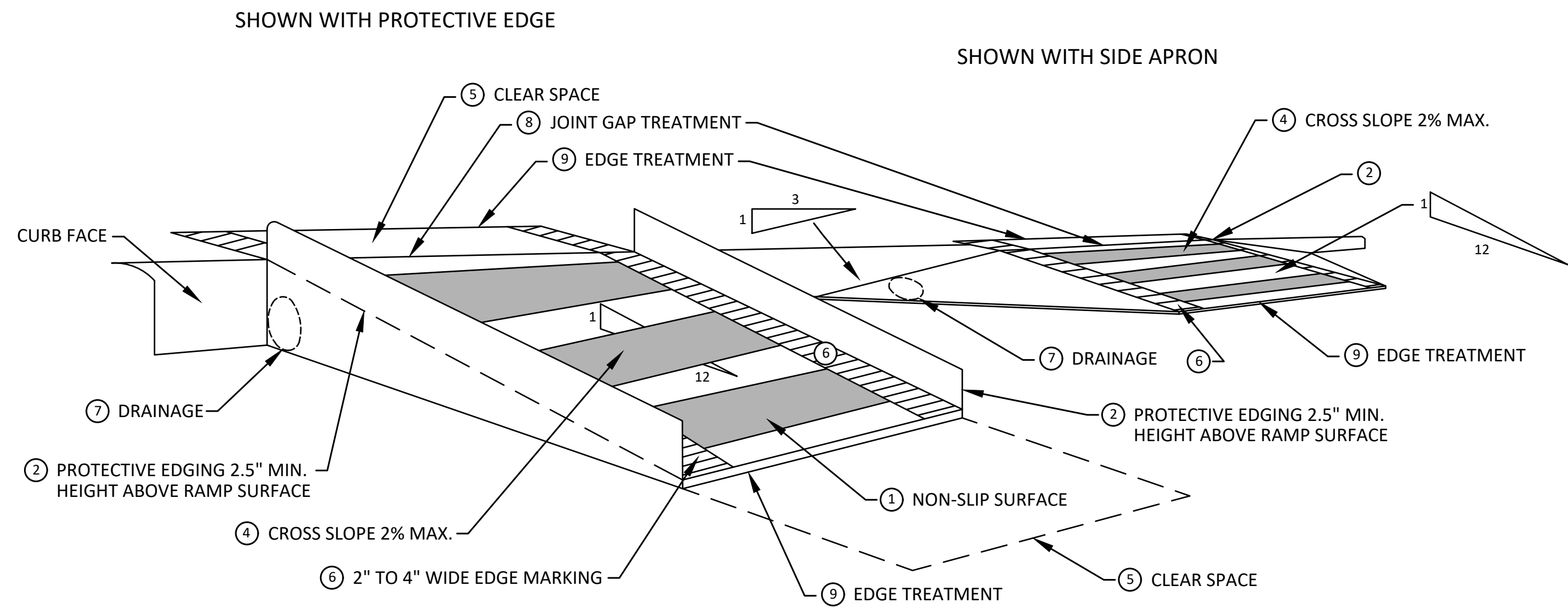
**TEMPORARY CURB RAMP
PARALLEL TO CURB**



EDGE TREATMENT

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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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
2025 MISCELLANEOUS UTILITY PROJECTS
TPAR RAMPS

SCALE: N.T.S.
DRAWING No. 2024006-6

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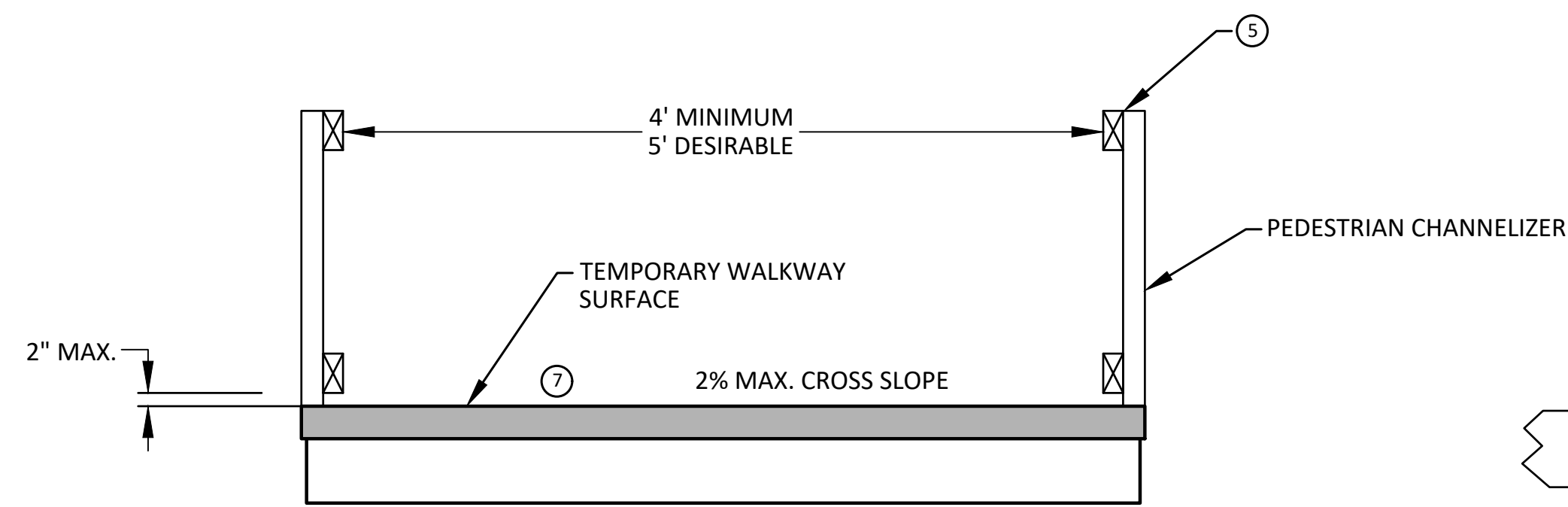


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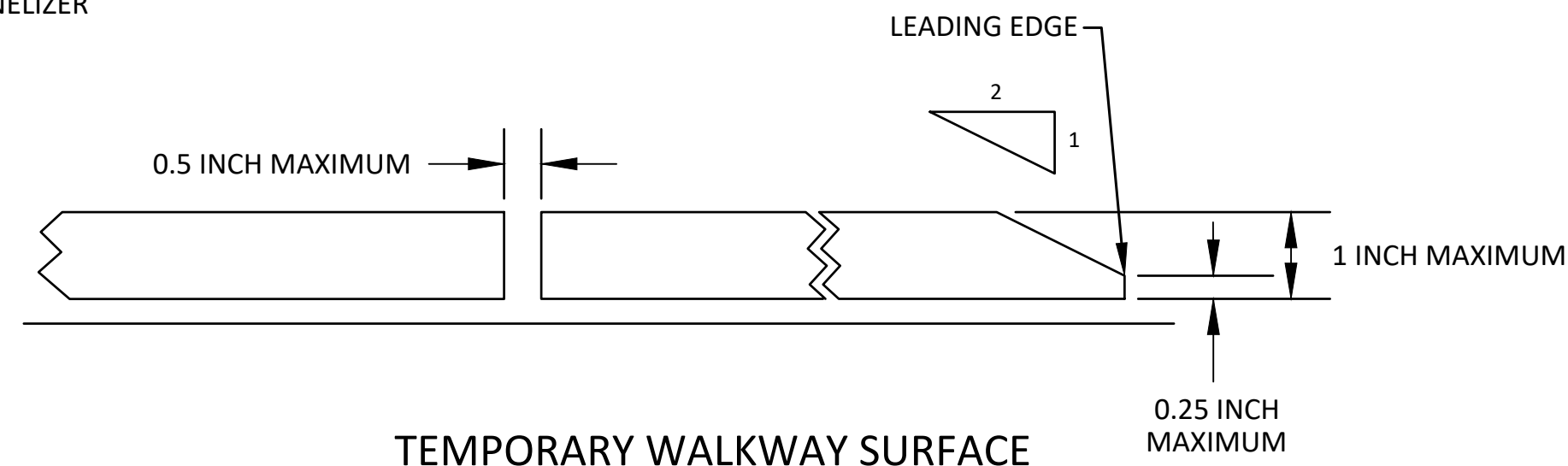
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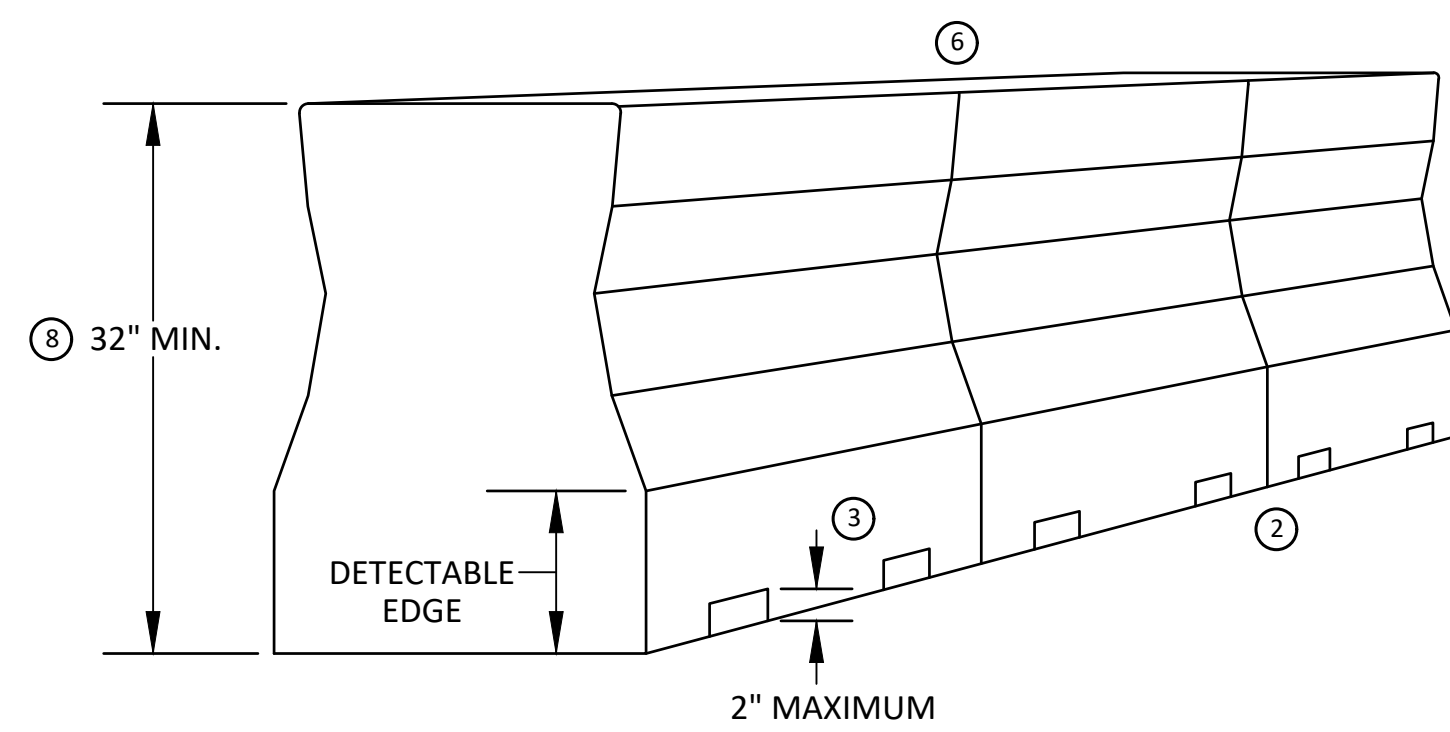
CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
 2025 MISCELLANEOUS UTILITY PROJECTS
 TPAR WALKWAY DEVICES
 SCALE: N.T.S.
 DRAWING No. 2024006-7



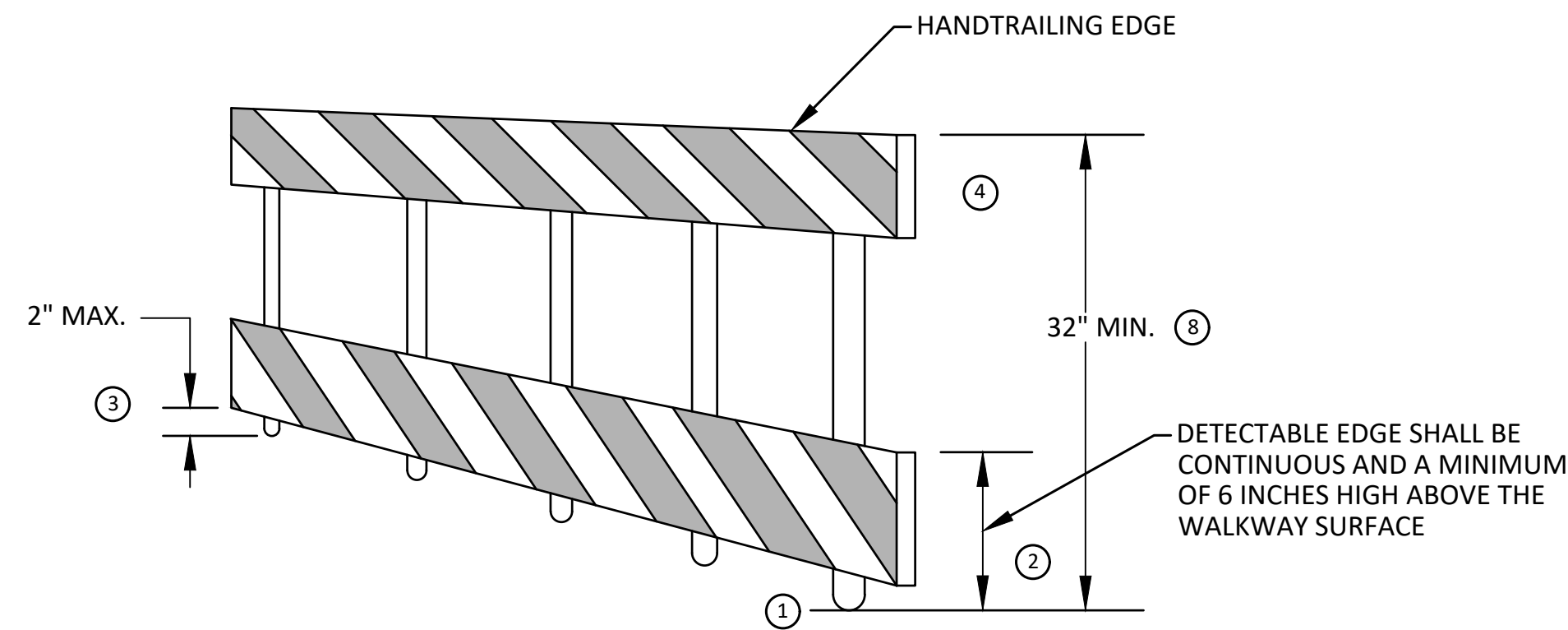
TEMPORARY PEDESTRIAN ACCESS



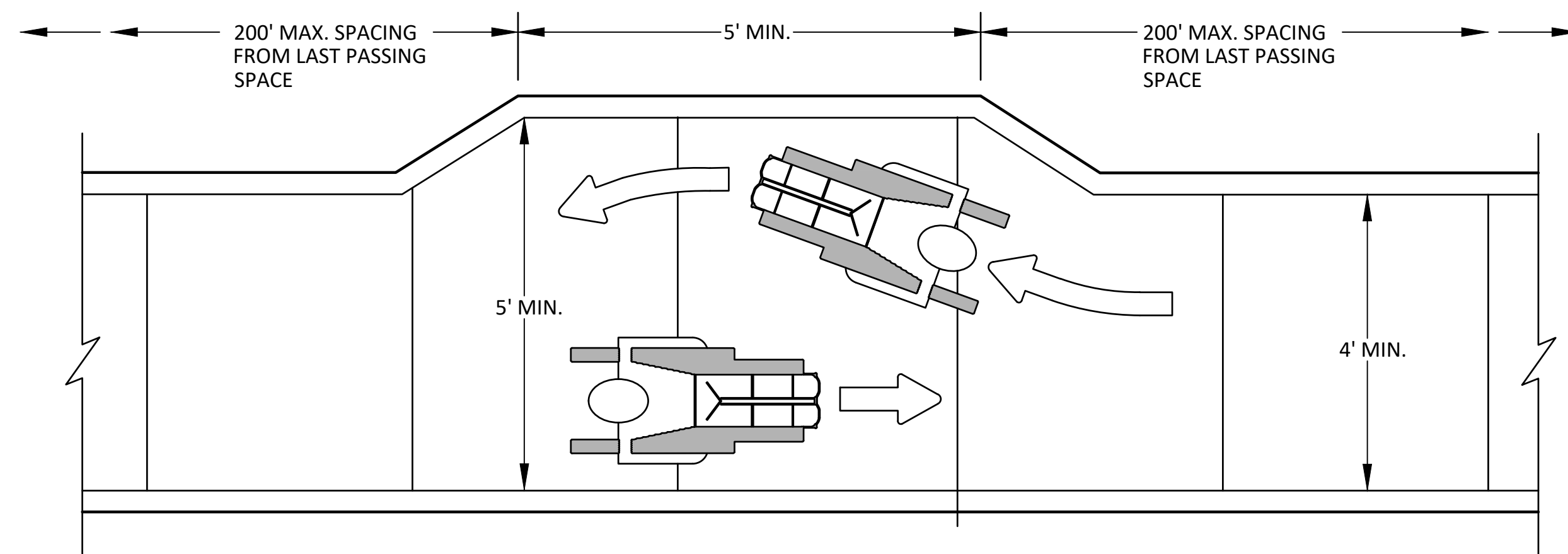
TEMPORARY WALKWAY SURFACE



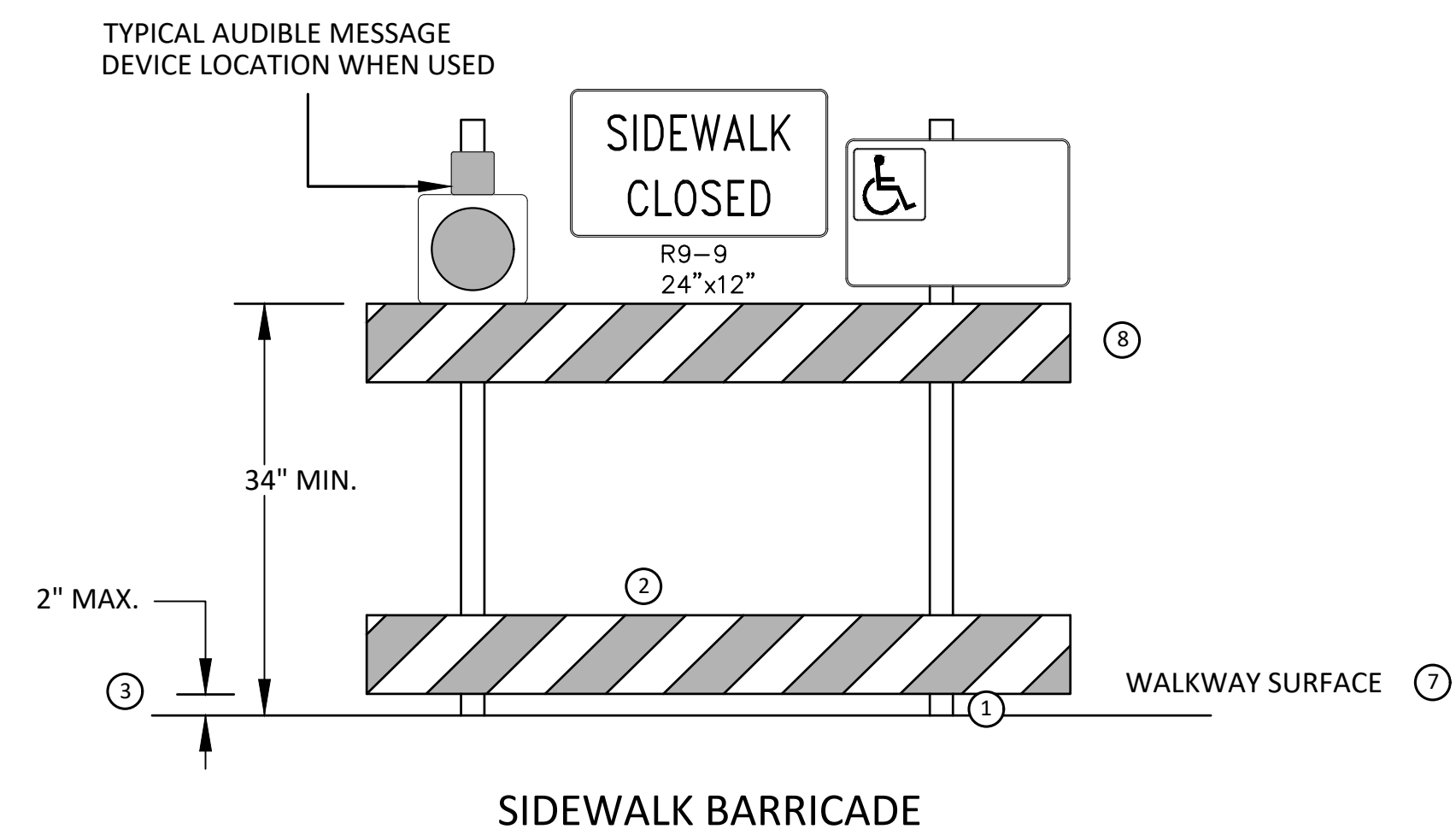
PEDESTRIAN CHANNELIZER USING A BARRIER
(MINIMUM REQUIREMENTS)



PEDESTRIAN CHANNELIZER
(MINIMUM REQUIREMENTS)



NARROW TEMPORARY PEDESTRIAN ACCESS ROUTE PASSING DETAIL



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.

SEE CONSTRUCTION SUBSECTION 2.A FOR ADDITIONAL DETAILS.

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.

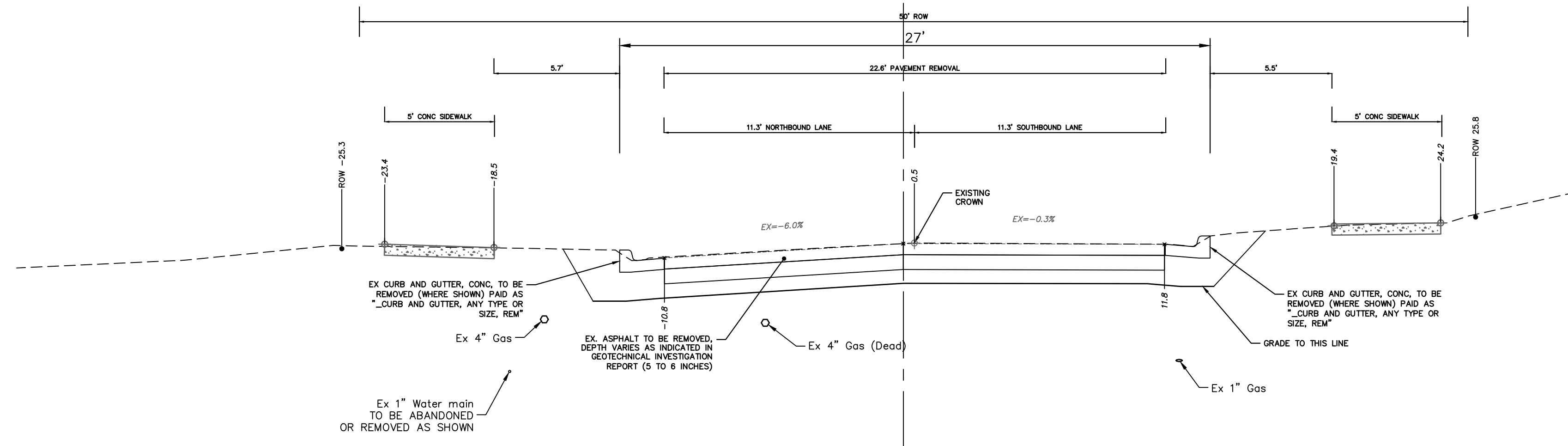
5 ALL DEVICES SHALL BE FREE OF SHARP OR ROUGH EDGES, AND FASTENERS (BOLTS) SHALL BE ROUNDED TO PREVENT HARM TO HANDS, ARMS OR CLOTHING OF PEDESTRIANS.

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.

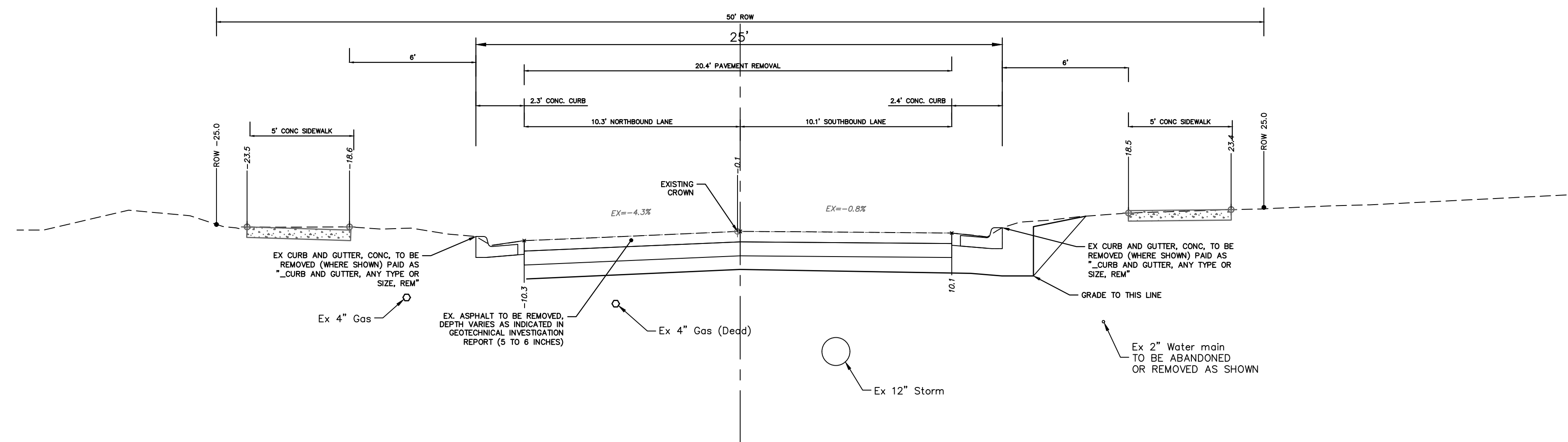
8 LONGITUDINAL CHANNELIZING DEVICES FOR PEDESTRIANS SHALL BE 32 INCHES IN HEIGHT OR GREATER.

R:\2024006 Misc Util 2025\Plan Production\2024006Txsctn.dwg Dwg Created: 12-Dec-24 --_o2_standard bw.sib -- Plot Date: 12-Dec-24



**HARDING ROAD
TYPICAL SECTION - EXISTING**

STA. 10+70 TO P.O.E.
N.T.S.



**HARDING ROAD
TYPICAL SECTION - EXISTING**

STA. 7+30 TO STA. 10+70
N.T.S.



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	REV.	DATE	DRAWN		
					DESCRIPTION

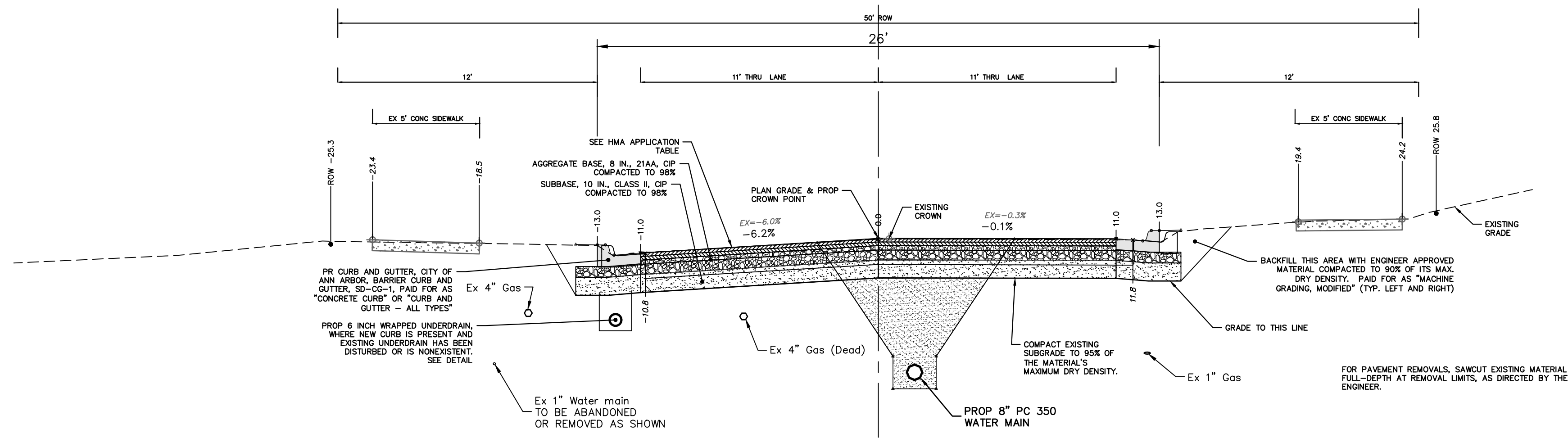
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2025 MISCELLANEOUS UTILITY PROJECTS
TYPICAL CROSS-SECTIONS
HARDING EXISTING TYPICAL SECTIONS

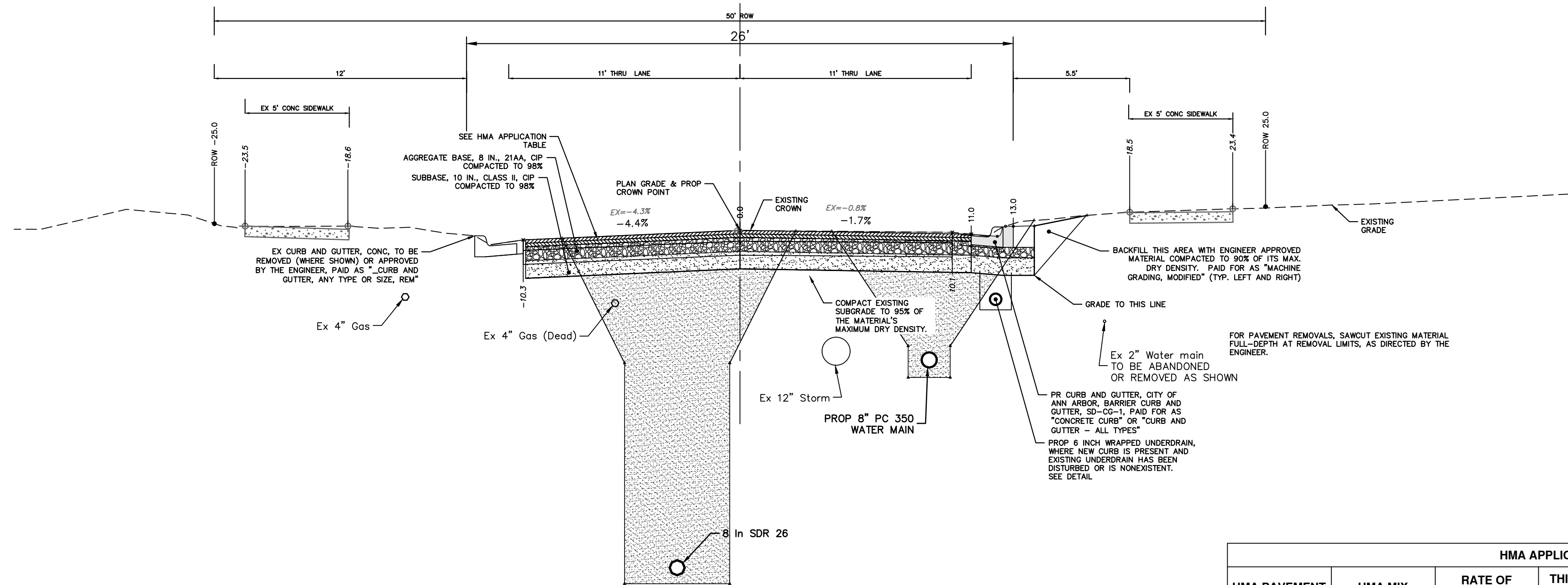
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PROFILE: 1" = 4'
DRAWING No. 2024006-8

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**HARDING ROAD
TYPICAL SECTION - PROPOSED**

STA. 10+50 TO P.O.E.
N.T.S.



**HARDING ROAD
TYPICAL SECTION - PROPOSED**

STA. 7+30 TO STA. 10+50
N.T.S.

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



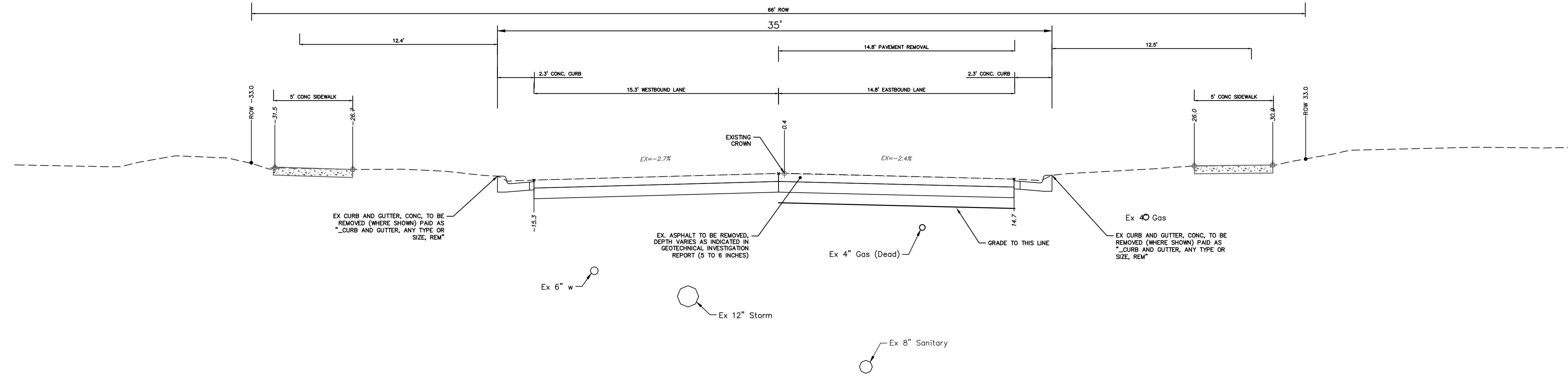
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		DRAWN
		CHECKED

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TYPICAL CROSS-SECTIONS
HARDING PROPOSED TYPICAL SECTIONS

SCALE PLAN: 1" = 4'
PROFILE: 1" = 4'
DRAWING No. 2024006-9



**MORTON AVENUE
TYPICAL SECTION - EXISTING**



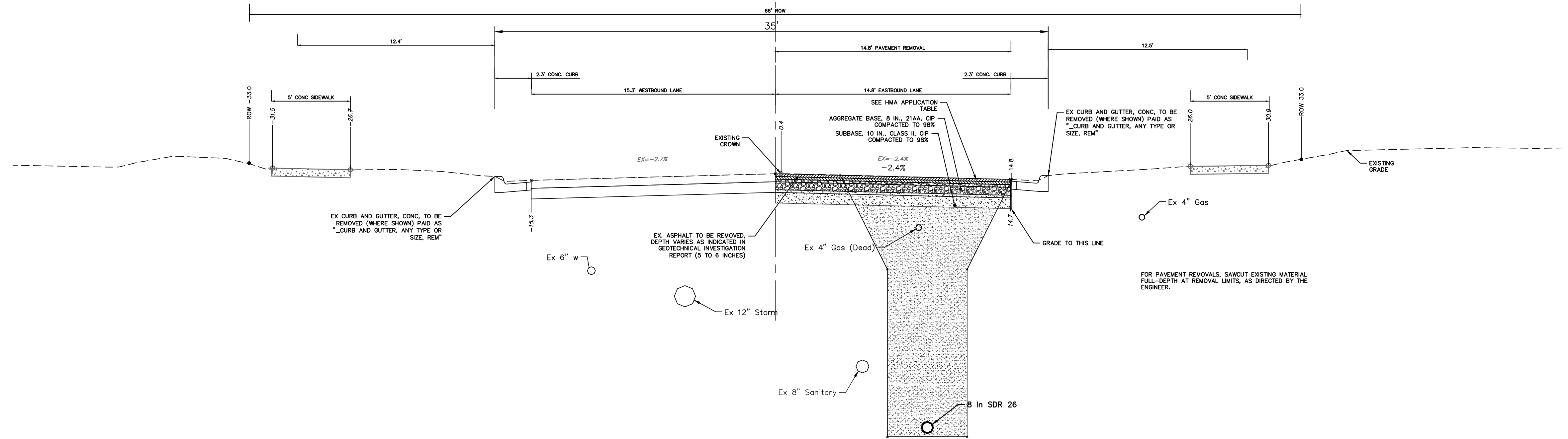
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01	BID SET	12/12/24	AZD	TA

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TYPICAL CROSS-SECTIONS
MORTON EXISTING TYPICAL SECTIONS

SCALE PLAN: CUSTOM
PROFILE: 1" = 4'
DRAWING No. 2024006-10



**MORTON AVENUE
TYPICAL SECTION - PROPOSED**

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



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www.a2gov.org

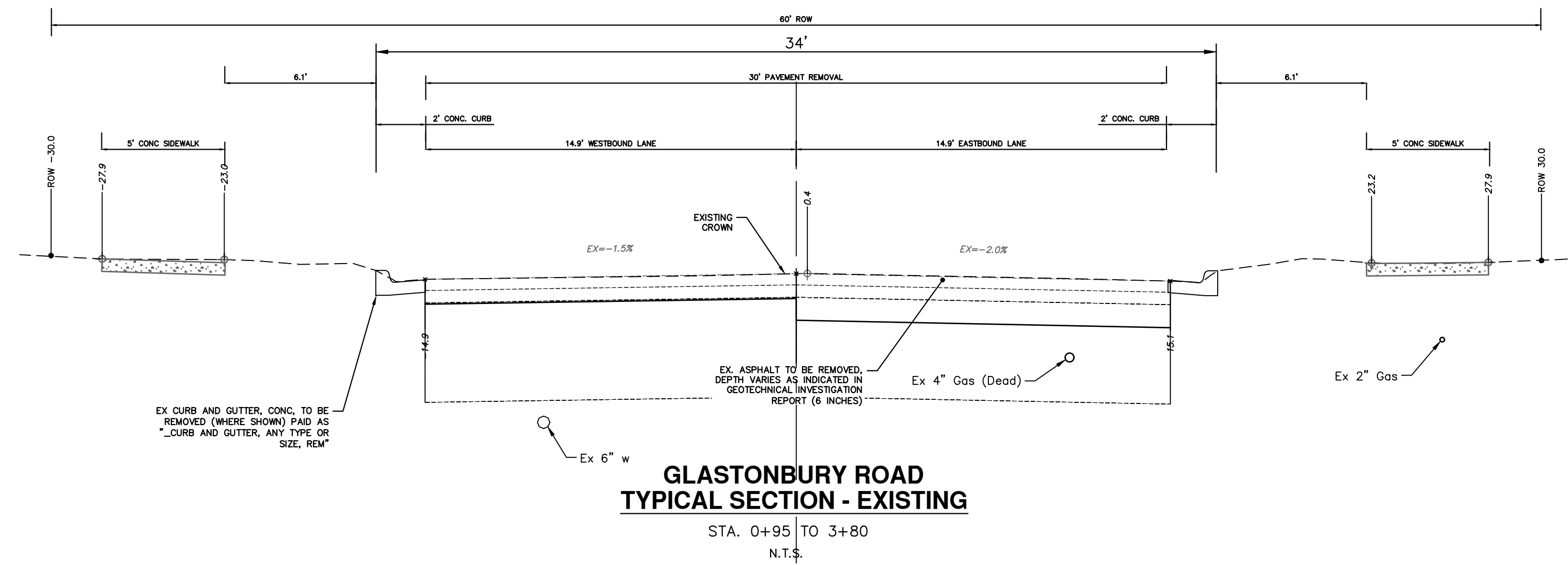
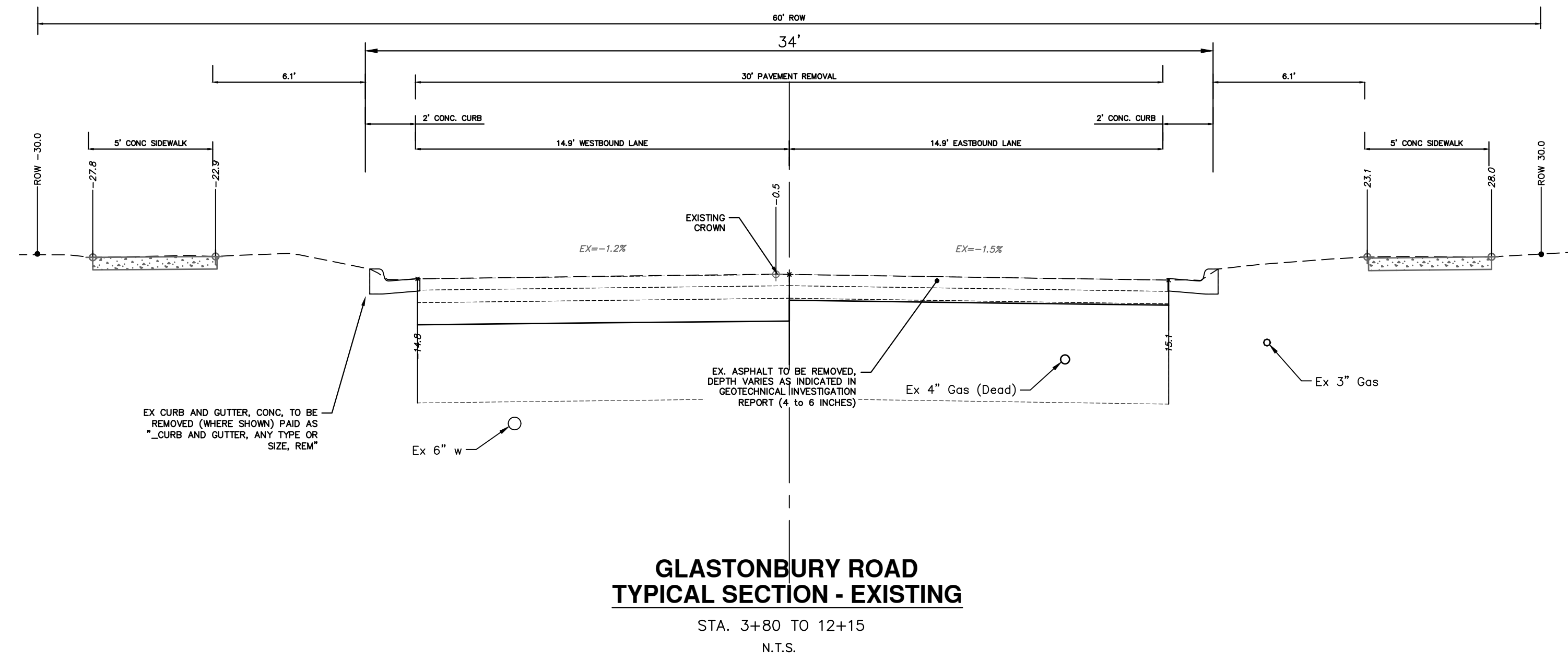
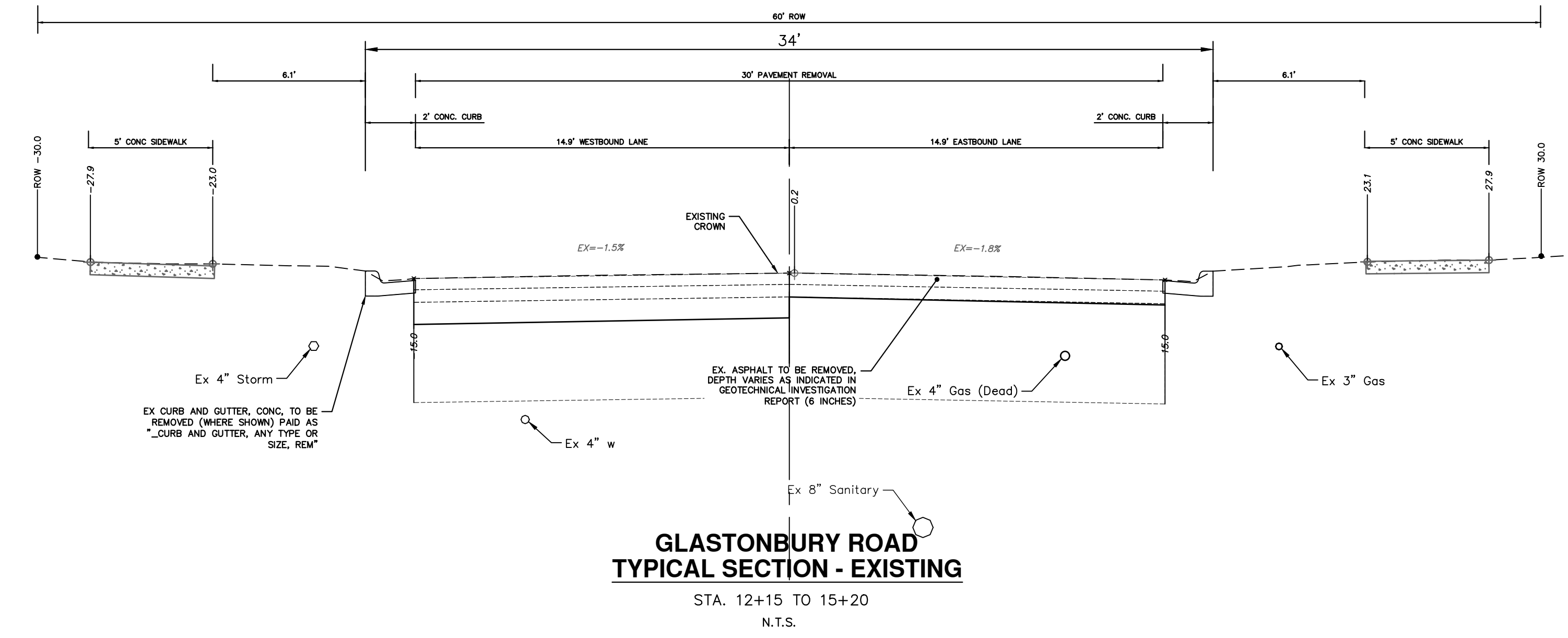


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TYPICAL CROSS-SECTIONS
MORTON PROPOSED TYPICAL SECTION

SCALE PLAN: 1" = 4'
PROFILE: 1" = 4'
DRAWING No. 2024006-11

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	BID SET	12/12/24	AZD	TA

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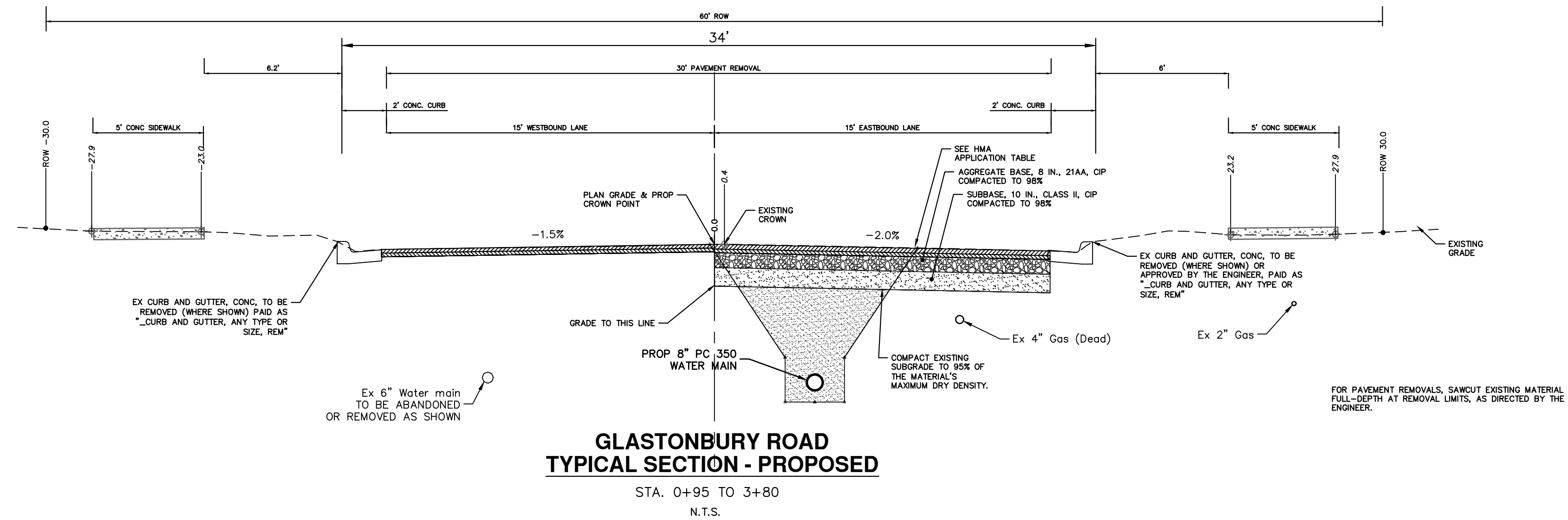
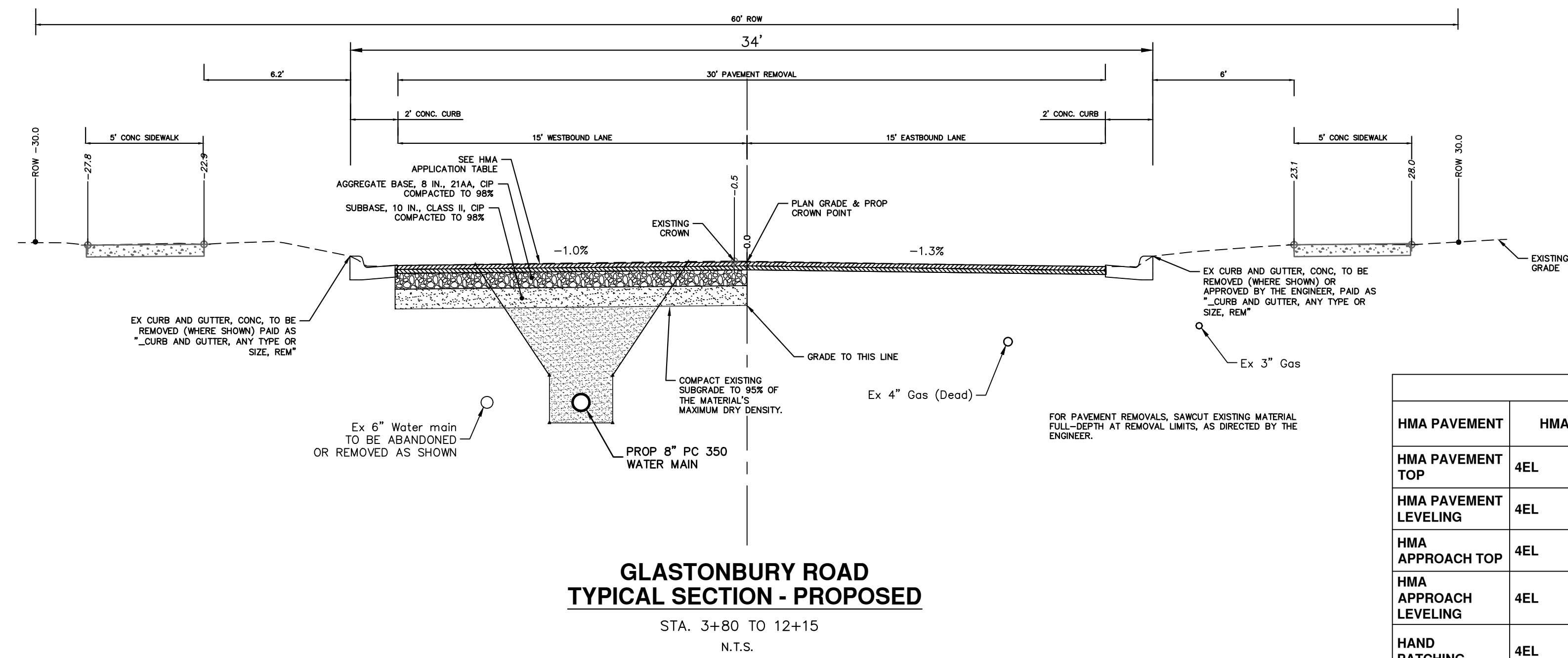
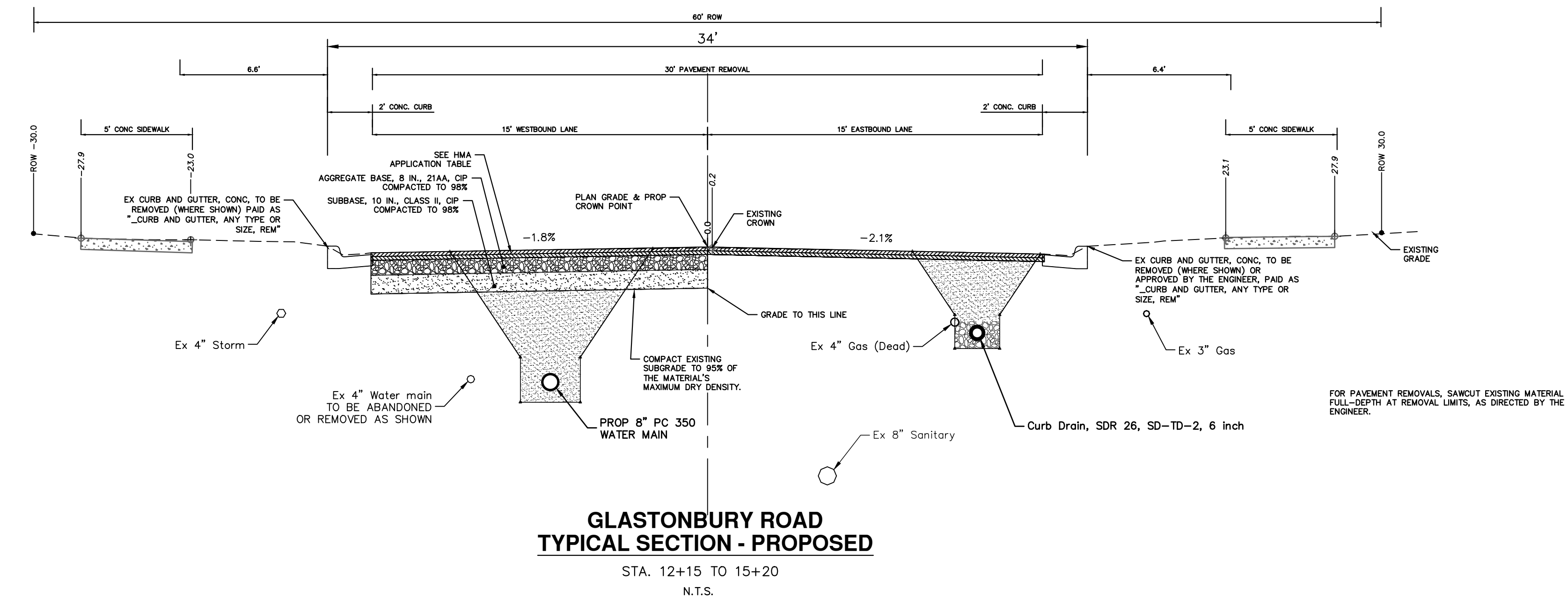
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TYPICAL CROSS-SECTIONS
GLASTONBURY EXISTING TYPICAL SECTIONS

SCALE PLAN: 1" = 4'
PROFILE: 1" = 4'
DRAWING No. 2024006-12

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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



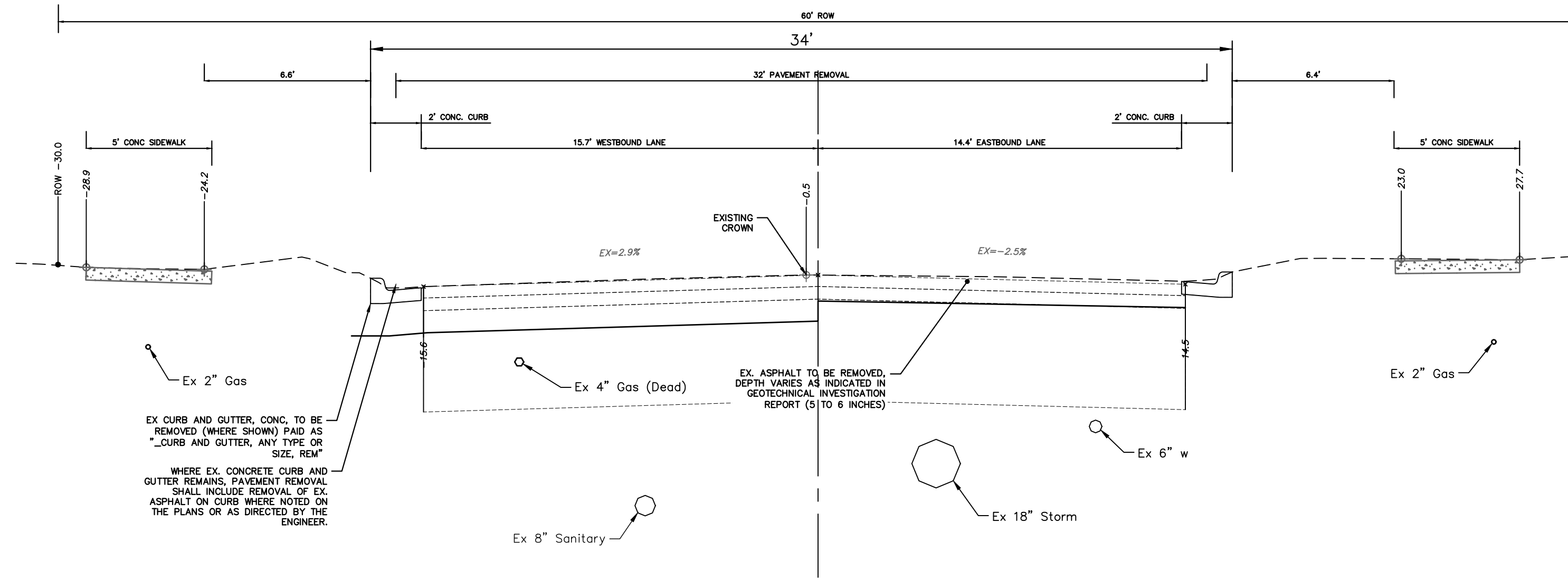
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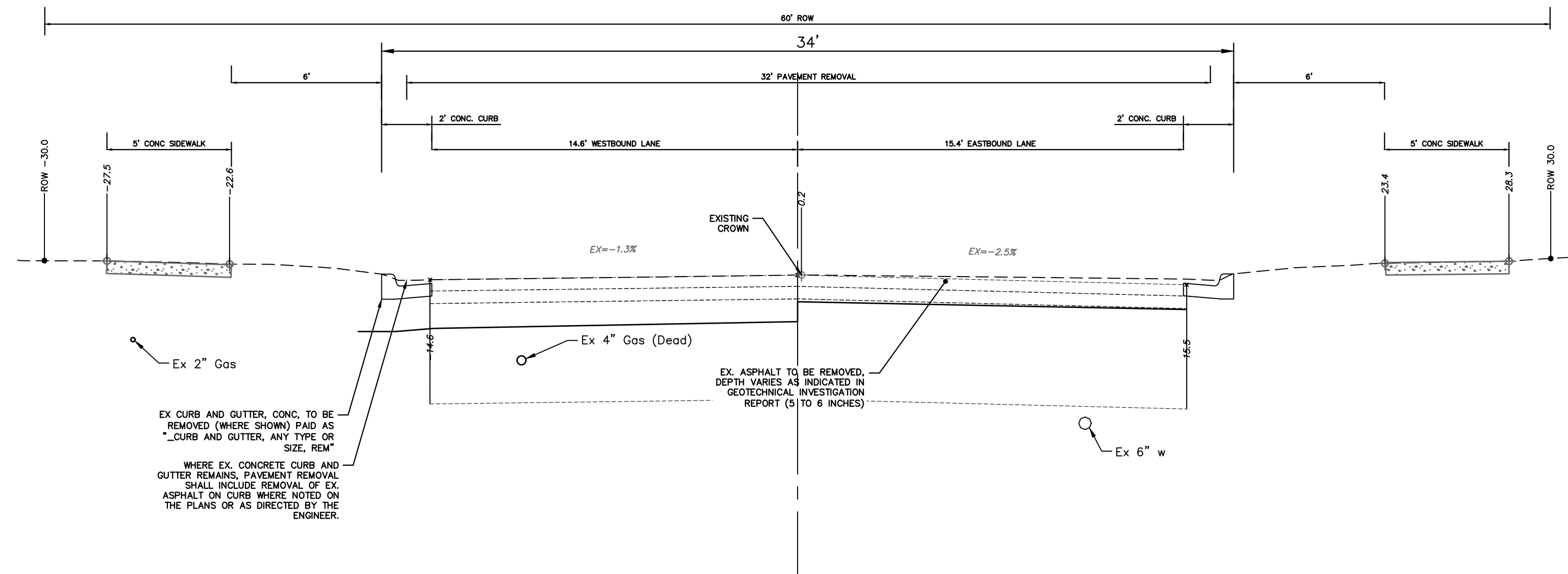
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TYPICAL CROSS-SECTIONS
GLASTONBURY PROPOSED TYPICAL SECTIONS

SCALE PLAN: 1" = 4'
PROFILE: 1" = 4'
DRAWING No. 2024006-13



**WELDON BOULEVARD
TYPICAL SECTION - EXISTING**

STA. 5+00 TO P.O.E.
N.T.S.



**WELDON BOULEVARD
TYPICAL SECTION - EXISTING**

STA. 0+55 TO STA. 5+00
N.T.S.



REV.	DESCRIPTION	DATE	DRAWN	CHECKED
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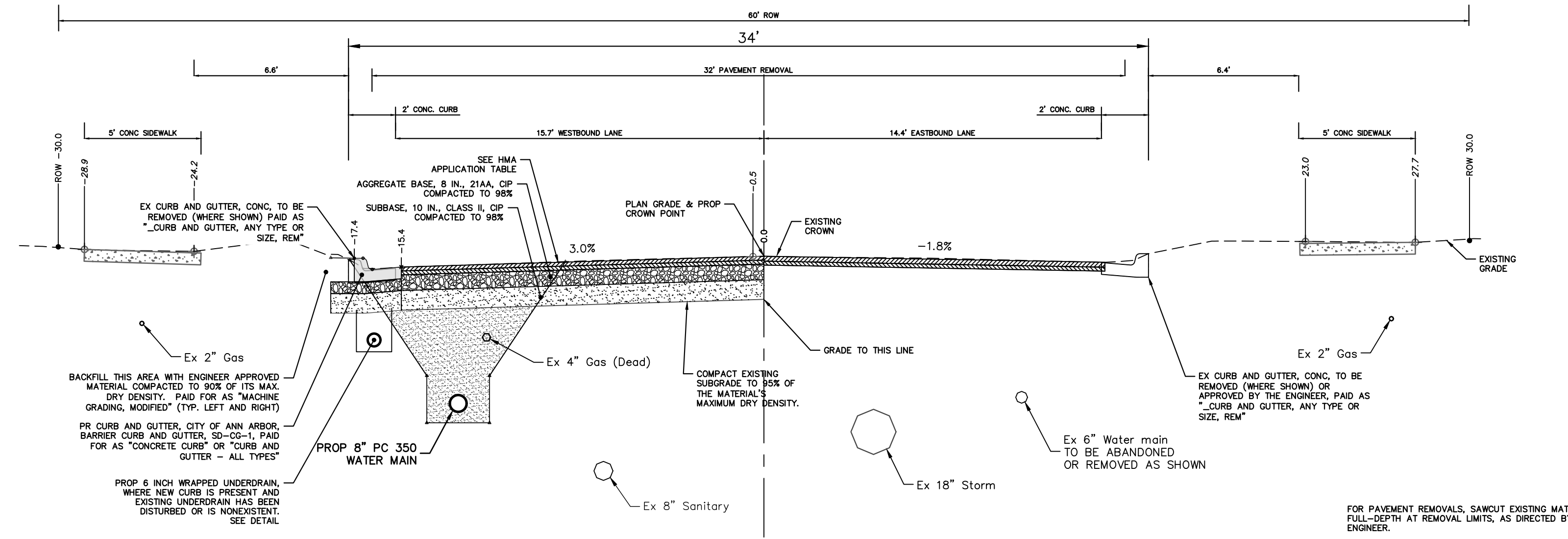
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TYPICAL CROSS-SECTIONS
WELDON EXISTING TYPICAL SECTIONS

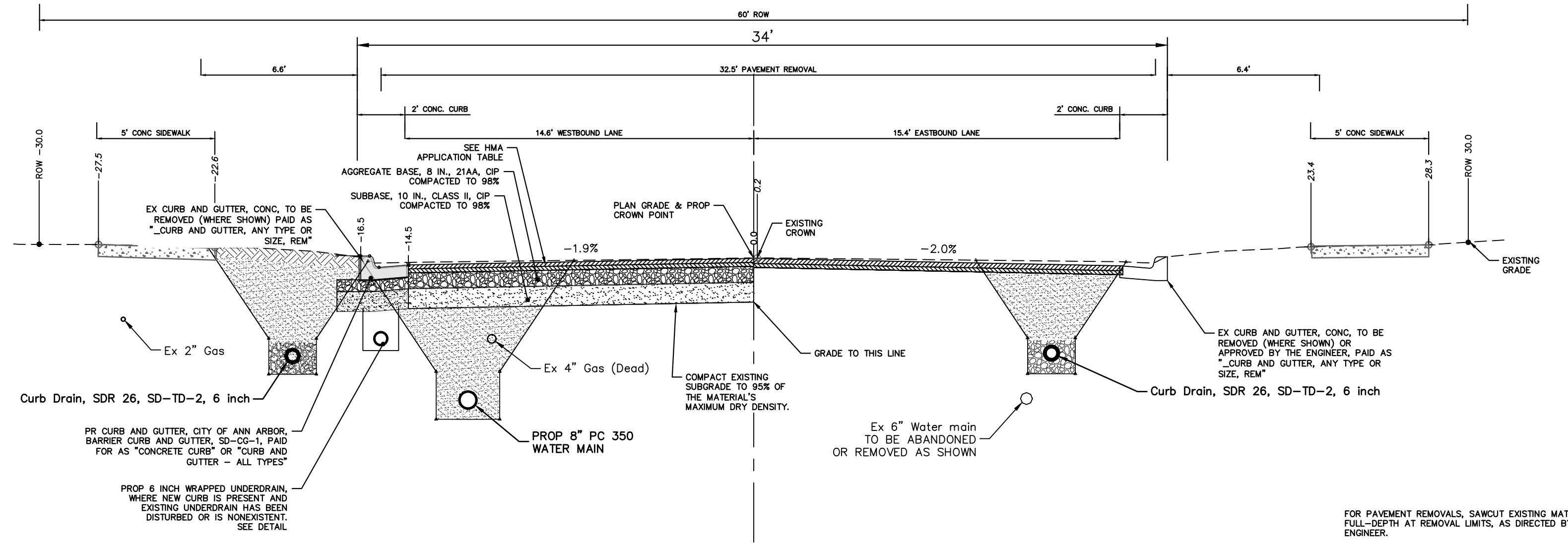
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**WELDON BOULEVARD
TYPICAL SECTION - PROPOSED**

STA. 5+00 TO P.O.E.
N.T.S.



**WELDON BOULEVARD
TYPICAL SECTION - PROPOSED**

STA. 0+55 TO STA. 5+00
N.T.S.

HMA APPLICATION ESTIMATE						
HMA PAVEMENT	HMA MIX	RATE OF APPLICATION	THICKNESS (INCHES)	AWI (MIN.)	BINDER	LOCATION/NOTES
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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



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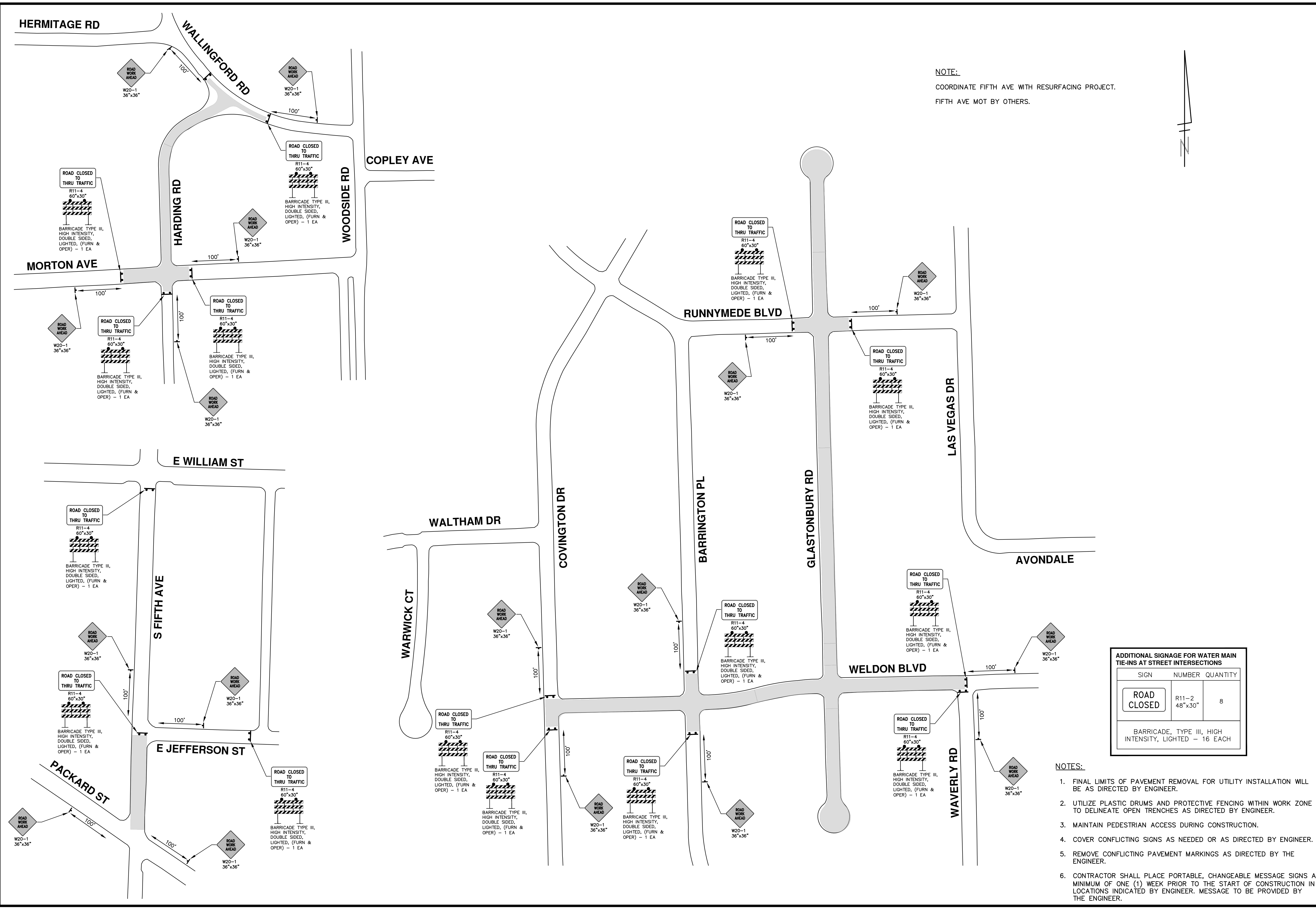
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2025 MISCELLANEOUS UTILITY PROJECTS
TYPICAL CROSS-SECTIONS
WELDON PROPOSED TYPICAL SECTIONS

SCALE PLAN: 1" = 4'
PROFILE: 1" = 4'
DRAWING No. 2024006-15

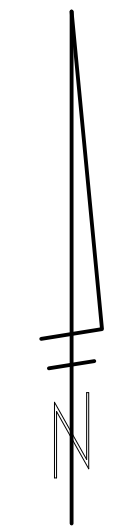
SHEET No.

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NOTE:
 COORDINATE FIFTH AVE WITH RESURFACING PROJECT.
 FIFTH AVE MOT BY OTHERS.



ADDITIONAL SIGNAGE FOR WATER MAIN TIE-INS AT STREET INTERSECTIONS

SIGN	NUMBER	QUANTITY
ROAD CLOSED	R11-2 48"x30"	8
BARRICADE, TYPE III, HIGH INTENSITY, LIGHTED - 16 EACH		

- NOTES:
- FINAL LIMITS OF PAVEMENT REMOVAL FOR UTILITY INSTALLATION WILL BE AS DIRECTED BY ENGINEER.
 - UTILIZE PLASTIC DRUMS AND PROTECTIVE FENCING WITHIN WORK ZONE TO DELINEATE OPEN TRENCHES AS DIRECTED BY ENGINEER.
 - MAINTAIN PEDESTRIAN ACCESS DURING CONSTRUCTION.
 - COVER CONFLICTING SIGNS AS NEEDED OR AS DIRECTED BY ENGINEER.
 - REMOVE CONFLICTING PAVEMENT MARKINGS AS DIRECTED BY THE ENGINEER.
 - CONTRACTOR SHALL PLACE PORTABLE, CHANGEABLE MESSAGE SIGNS A MINIMUM OF ONE (1) WEEK PRIOR TO THE START OF CONSTRUCTION IN LOCATIONS INDICATED BY ENGINEER. MESSAGE TO BE PROVIDED BY THE ENGINEER.

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2025 MISCELLANEOUS UTILITY PROJECTS


TRAFFIC CONTROL

HARDING RD, GLASTONBURY RD - WELDON BLVD, S FIFTH AVE

SCALE PLAN: 1" = 100'

DRAWING NO: 2024006-16

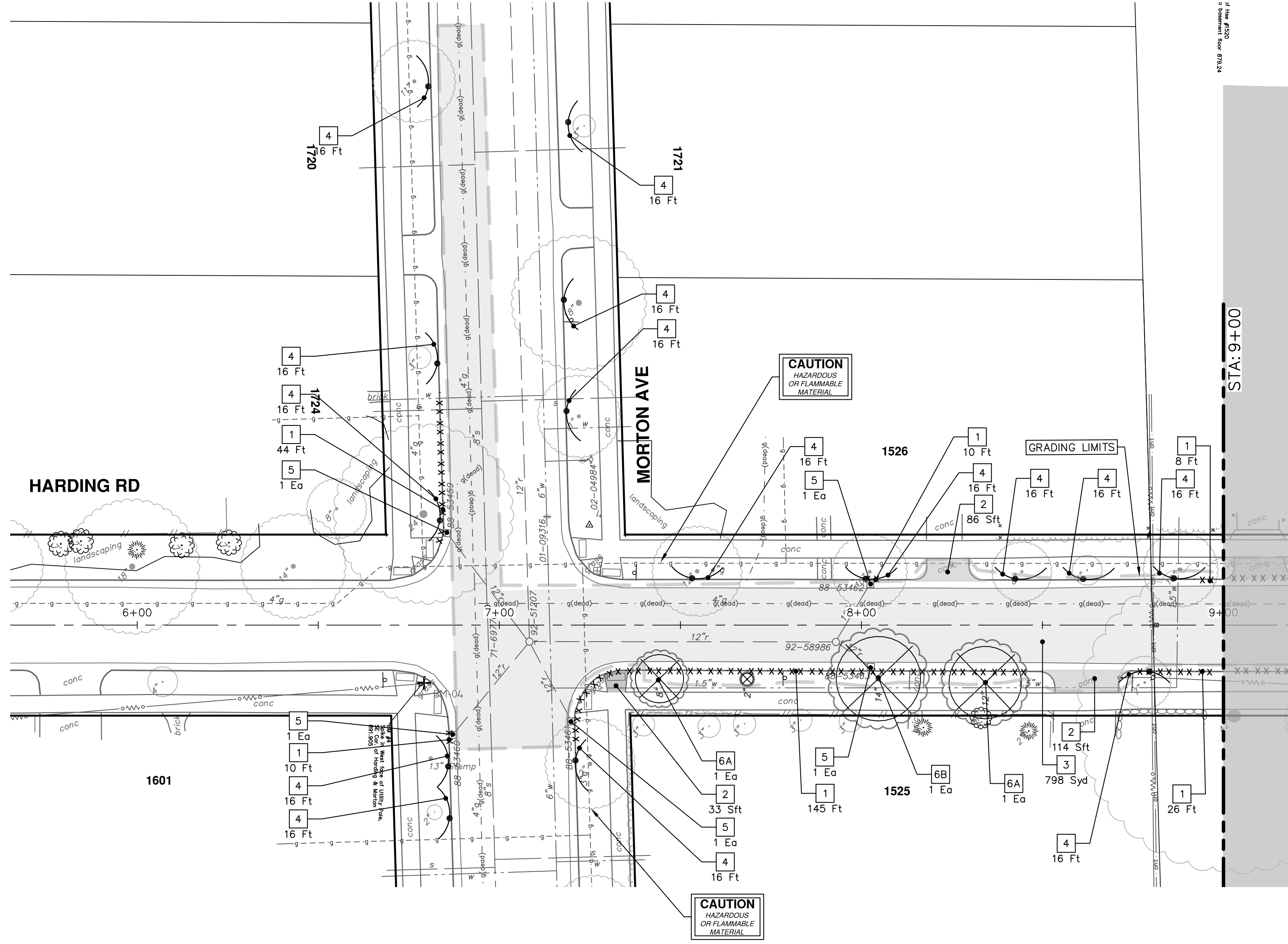
SHEET NO. 16 OF 52



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 ANN ARBOR: 734.794.4410
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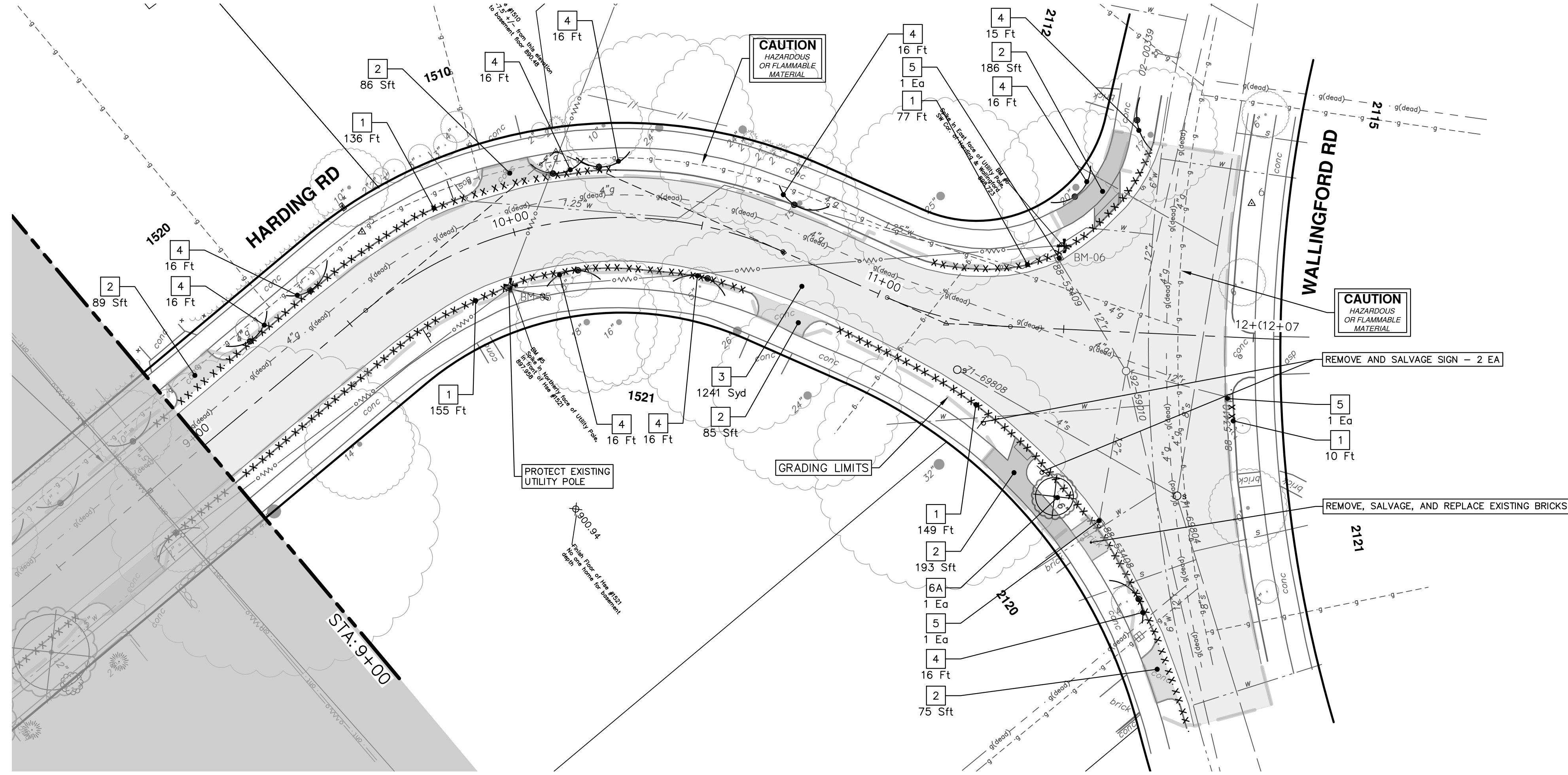


REMOVAL KEY	
KEY	DESCRIPTION
1	Curb, Gutter, and Curb and Gutter, Any Type, Rem *
2	Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem
3	HMA, Any Thickness, Rem *
4	Tree Protective Fence
5	Erosion Control, Inlet Protection, Fabric Drop
6A	Tree, Rem, 6 In. - 12 In.
6B	Tree, Rem, 13 In.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

* SAWCUT FULL DEPTH AT REMOVAL LIMITS AS DIRECTED BY ENGINEER



REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	BID SET	12/12/24	AZD	TA



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.

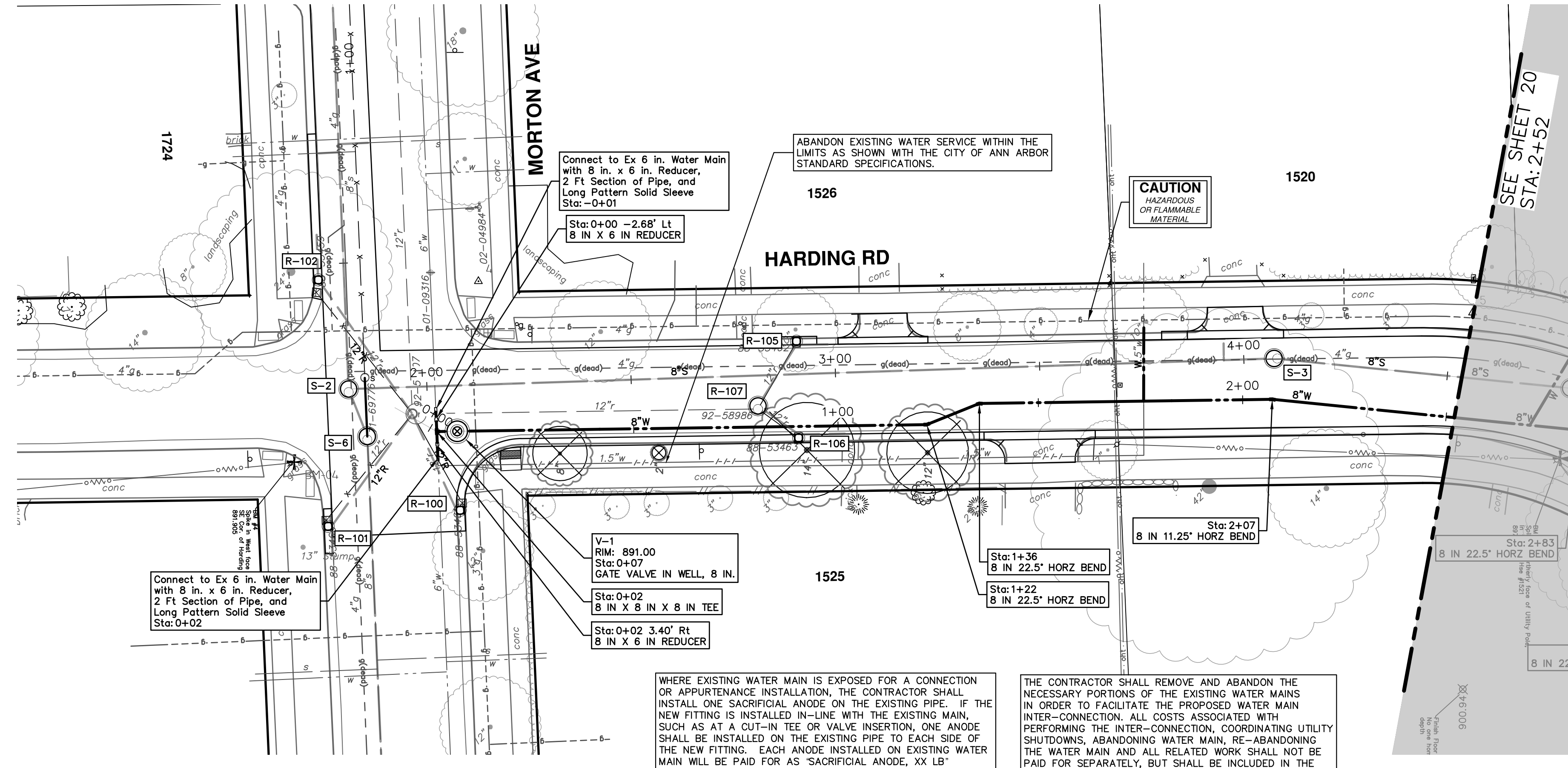
* SAWCUT FULL DEPTH AT REMOVAL LIMITS AS DIRECTED BY ENGINEER



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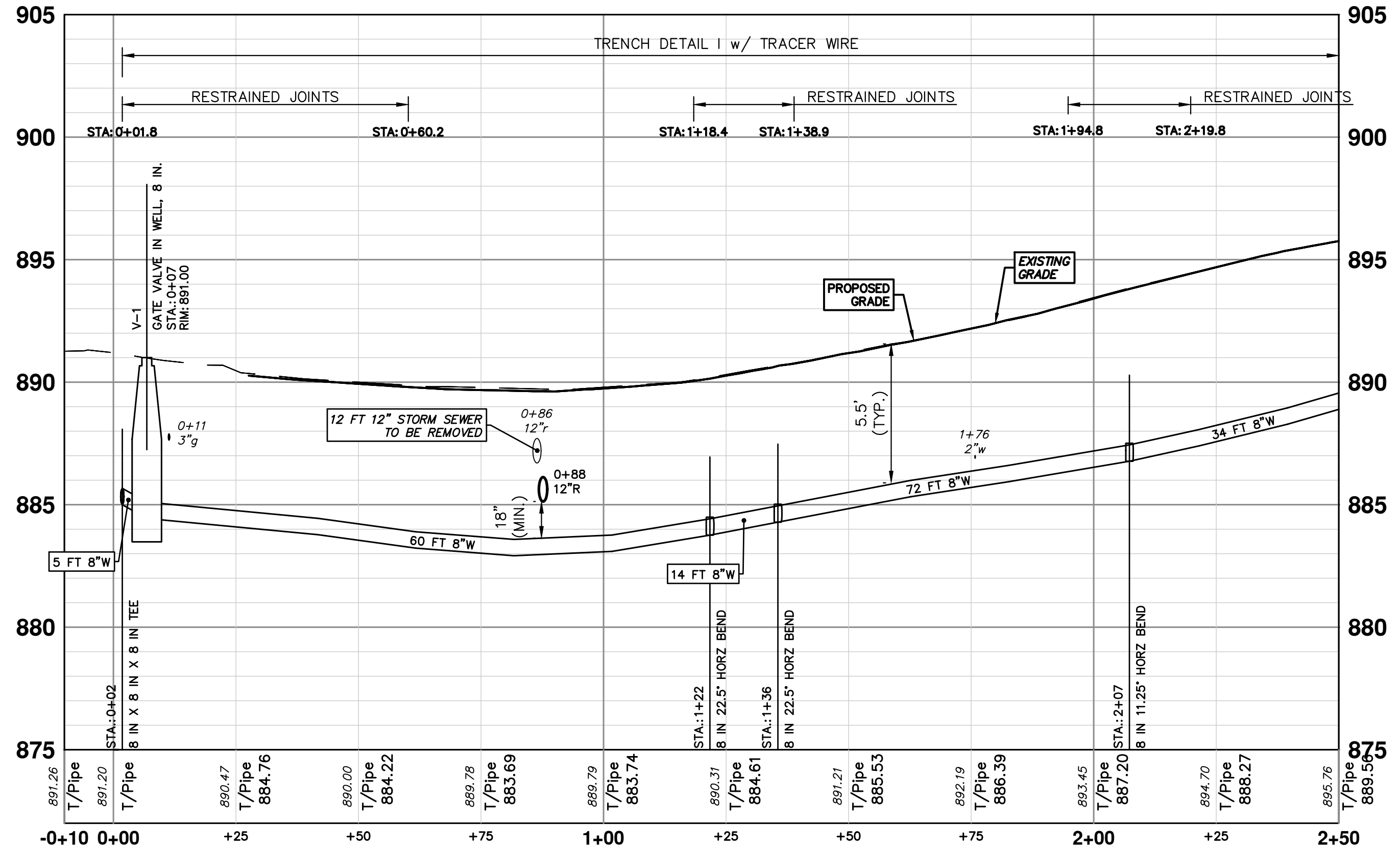


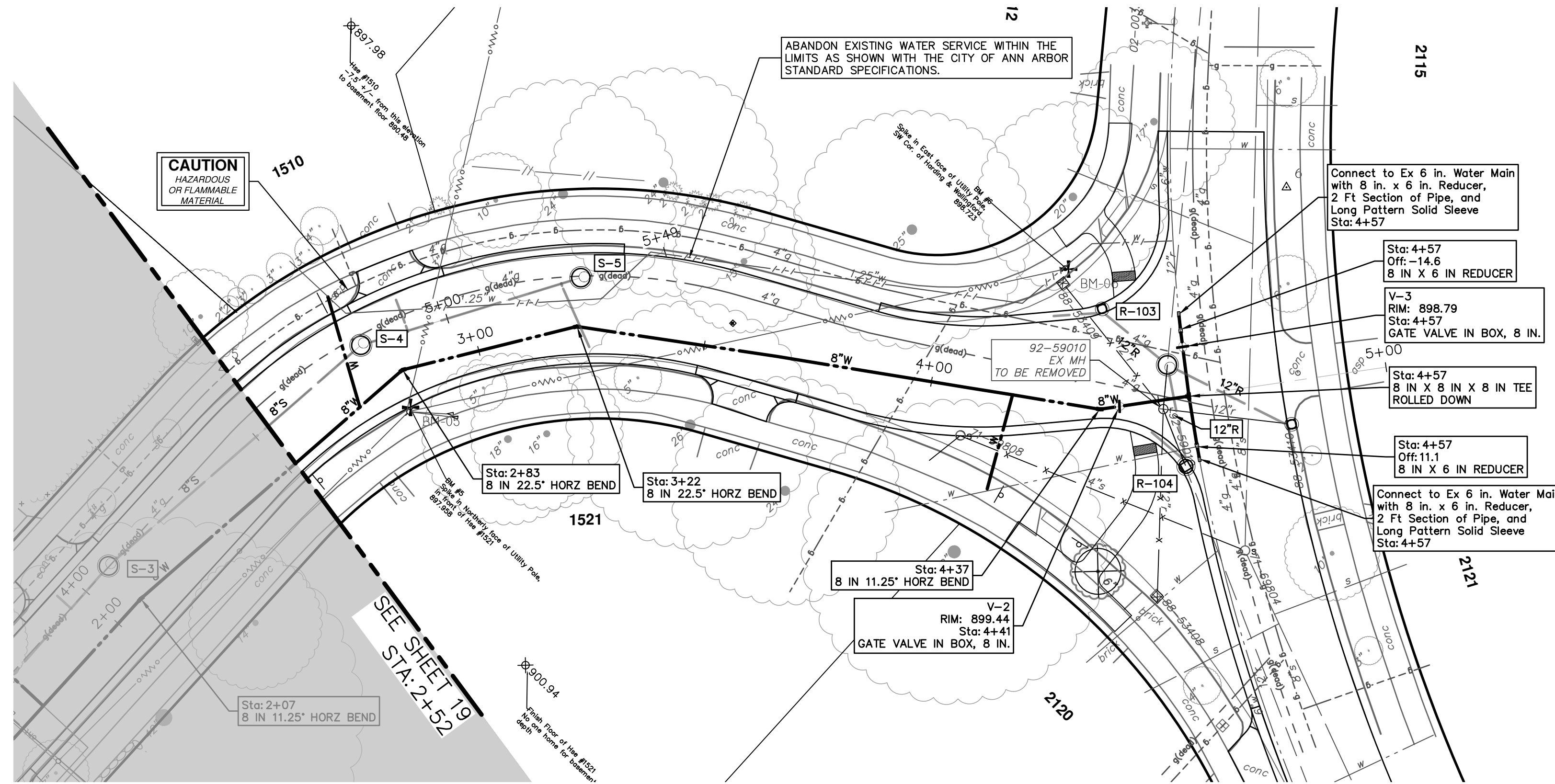


WHERE EXISTING WATER MAIN IS EXPOSED FOR A CONNECTION OR APPURTENANCE INSTALLATION, THE CONTRACTOR SHALL INSTALL ONE SACRIFICIAL ANODE ON THE EXISTING PIPE. IF THE NEW FITTING IS INSTALLED IN-LINE WITH THE EXISTING MAIN, SUCH AS AT A CUT-IN TEE OR VALVE INSERTION, ONE ANODE SHALL BE INSTALLED ON THE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

PR WATER - HARDING



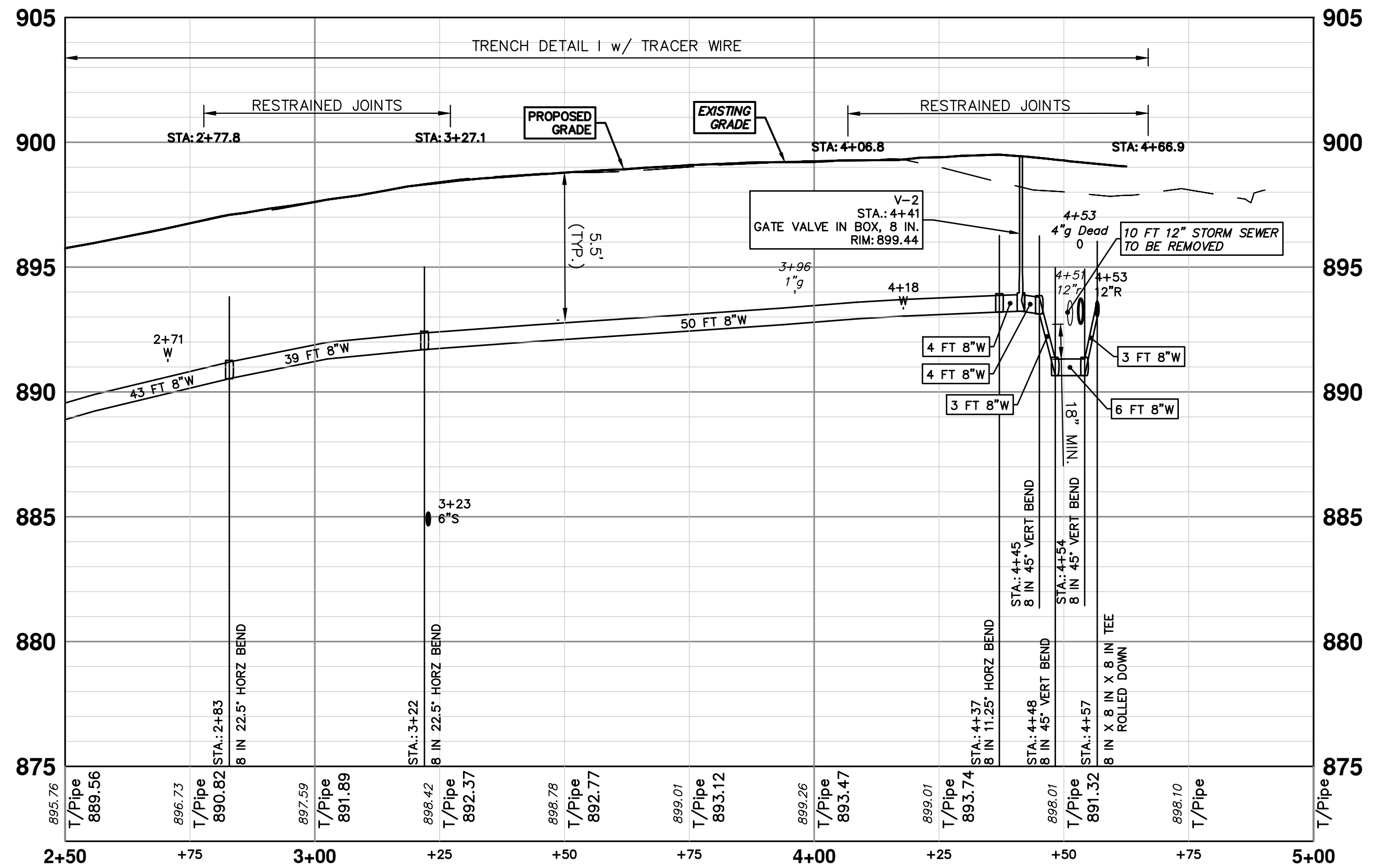


WATER MAIN STRUCTURES			
STRUCTURE	TYPE	STATION	RIM
V-2	Gate Valve in Box, 8 In.	4+41	899.44
V-3	Gate Valve in Box, 8 In.	4+57	898.79

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"

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PR WATER - HARDING



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2025 MISCELLANEOUS UTILITY PROJECTS
WATER MAIN - HARDING RD
STA. 2+50 - STA. 4+61

SCALE PLAN: 1" = 20'
PROFILE: 1" = 4'

DRAWING NO. 2024006-20

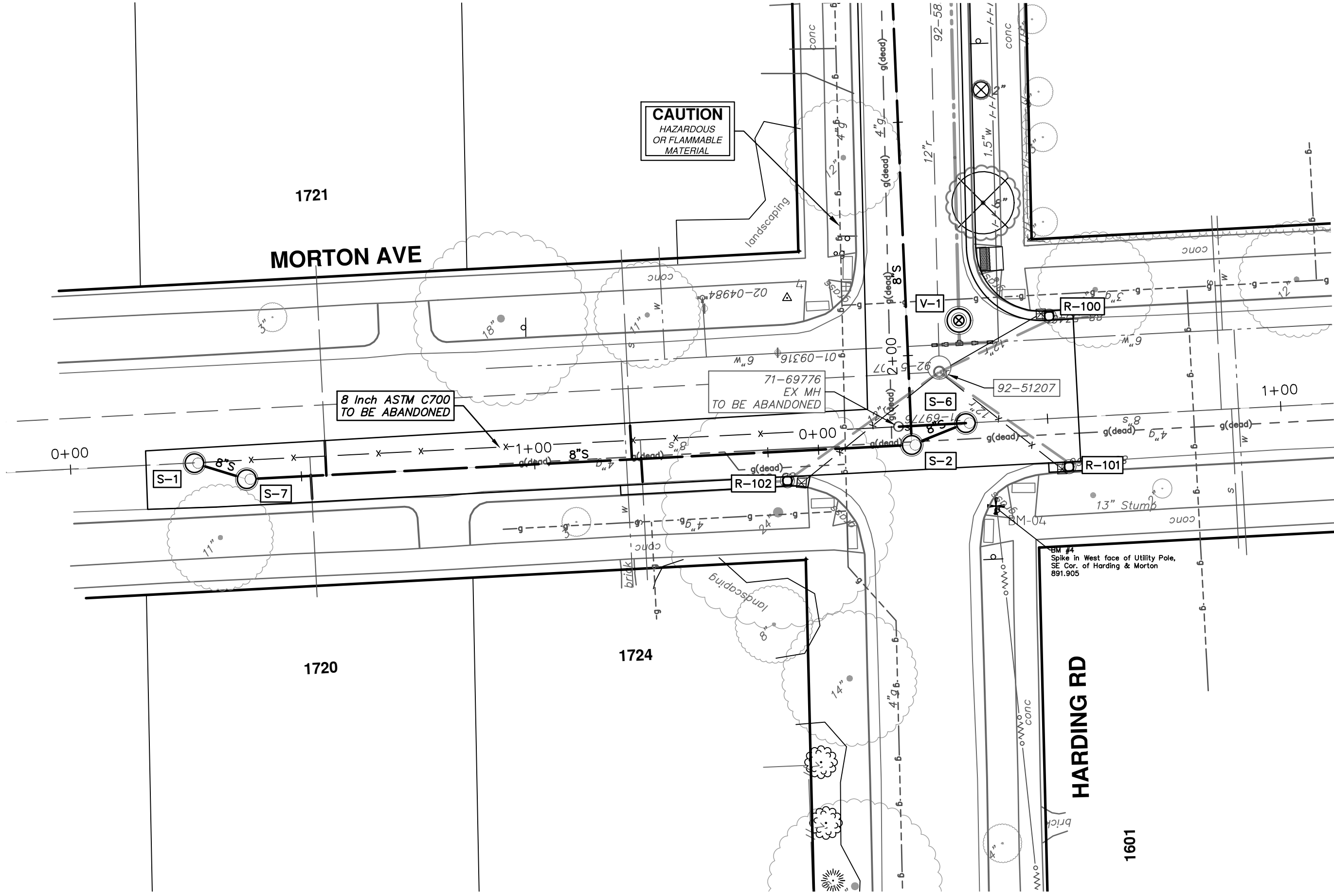
SHEET NO. 20 OF 52

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	BID SET	12/12/24	AZD	TA

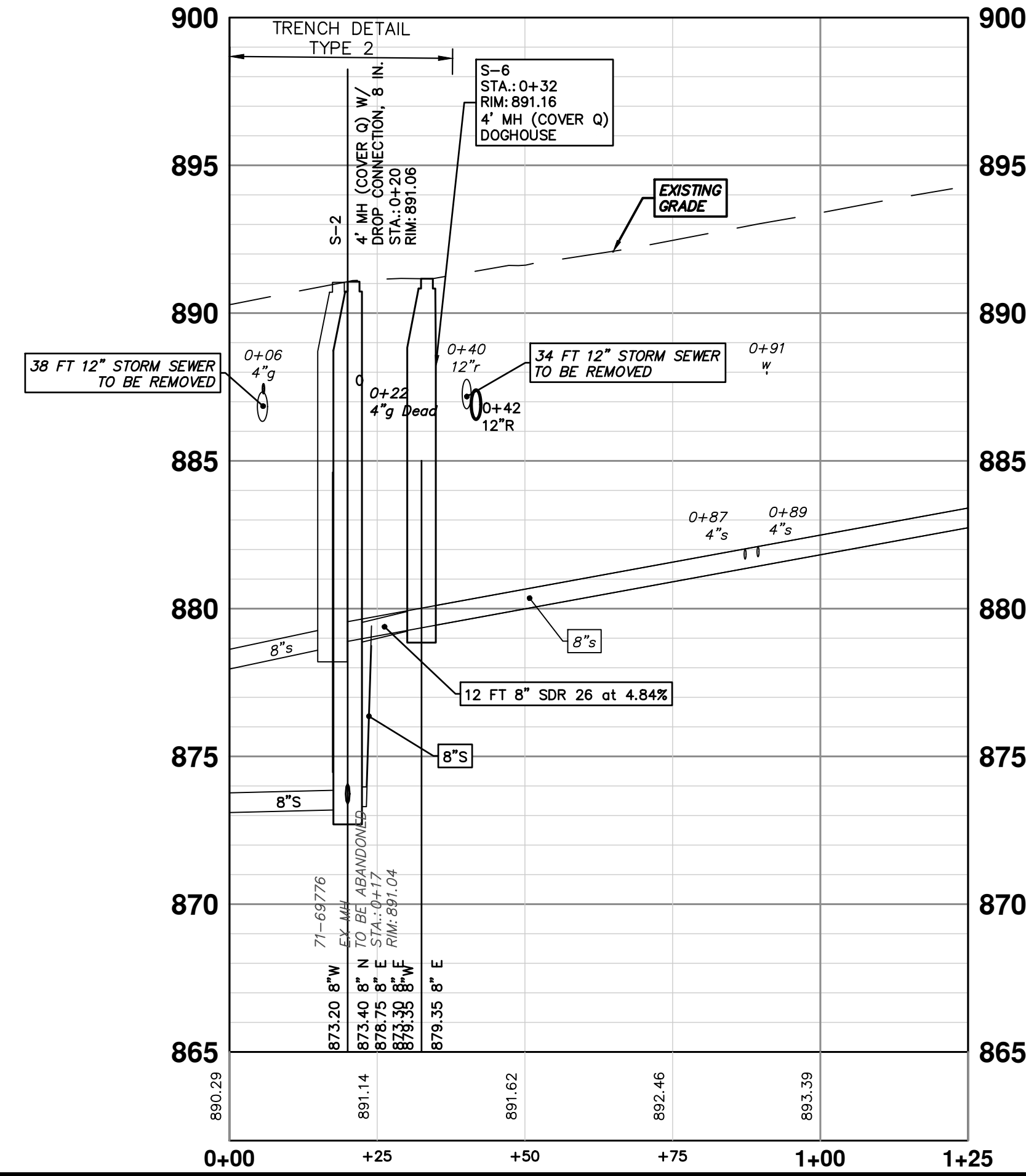
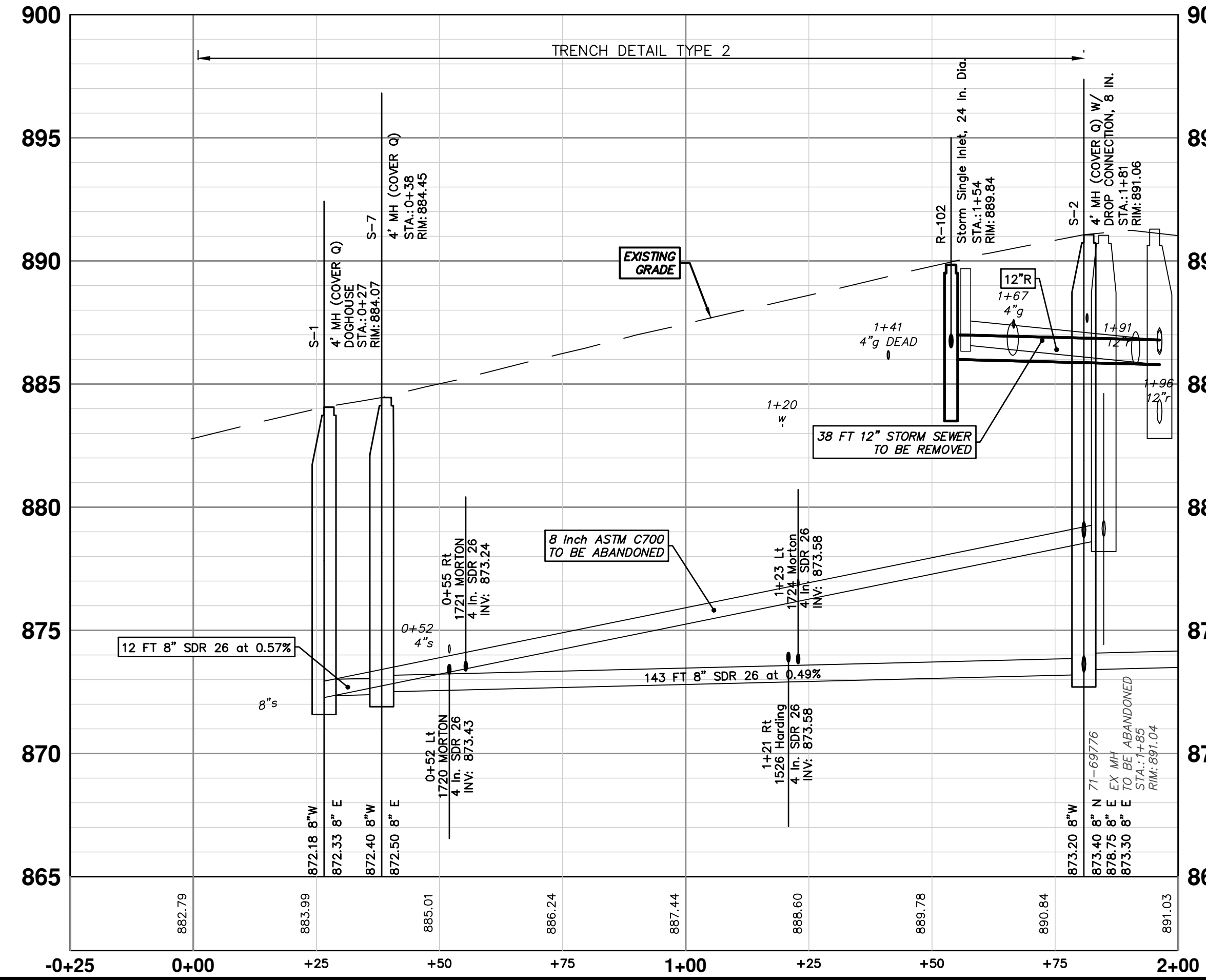
THE CONTRACTOR SHALL MAINTAIN FLOW IN THE EXISTING SANITARY SEWER AT ALL TIMES BY BYPASS PUMPING, AS NECESSARY. DURING WET WEATHER EVENTS, THE FLOW IN THE SANITARY SEWER WILL RISE RAPIDLY AND MAY BECOME SURCHARGED. THE CONTRACTOR SHALL MAINTAIN FLOW IN SUCH A MANNER AS THE EXISTING FLOW CAN BE ADEQUATELY TRANSPORTED, INCLUDING WET WEATHER FLOW.

THE CONTRACTOR SHALL SUBMIT A DETAILED BYPASS PUMPING MANAGEMENT PLAN TO BE REVIEWED AND APPROVED BY THE ENGINEER, PRIOR TO ANY OBSTRUCTION OF FLOWS IN THE SANITARY SEWER. THE CONTRACTOR SHALL PLAN HIS OPERATION SUCH THAT THERE WILL BE NO BACKUPS, LEAKS OR DISCHARGES OF SEWERAGE. THE CONTRACTOR WILL BE COMPLETELY RESPONSIBLE FOR ALL CLEANUP OF BACKUPS, LEAKS OR DISCHARGES OF SEWERAGE.

THE CONTRACTOR SHALL ALSO FURNISH AND HAVE AVAILABLE ON-SITE; REDUNDANT PUMPING FACILITIES IN CASE OF ANY FAILURE OF THE PUMPING SYSTEM INCLUDING PUMPS, PIPING, POWER SOURCE, ELECTRICAL CONNECTIONS, ETC. REDUNDANT PUMPING FACILITIES ALSO INCLUDE HAVING A BACKUP POWER GENERATOR IN CASE THE PRIMARY POWER SOURCE FAILS. THE CONTRACTOR SHALL PROVIDE AND ADEQUATE LABOR FORCE TO OVERSEE THE BYPASS PUMPING INCLUDING PROVIDING LABOR TO MAINTAIN 24 HOUR PER DAY OPERATION AND EMERGENCY BACKUP SERVICE, IF NECESSARY. THE CONTRACTOR WILL NOT BE ABLE TO OBSTRUCT FLOWS IN THE SEWER UNLESS THE PRIMARY AND REDUNDANT EQUIPMENT IS ON-SITE AND IN OPERABLE CONDITION. THE BYPASS PUMPING OPERATION SHALL NOT BE PAID FOR SEPARATELY AND SHALL BE INCLUDED IN THE COST OF PAY ITEM FOR "GENERAL CONDITIONS".



SANITARY SEWER STRUCTURE TABLE							
STRUCTURE	STATION	RIM	DEPTH	DIA.	TYPE	INVERTS	NOTES
S-1	0+27	884.07	11.98	48	4' MH	8" E 872.33 8" W 872.18	4' MH (Cover Q) DOGHOUSE
S-6	0+32	891.16	11.81	48	4' MH	8" E 879.35 8" W 879.35	4' MH (Cover Q) DOGHOUSE
S-7	0+38	884.45	12.05	48	4' MH	8" E 872.50 8" W 872.40	4' MH (Cover Q)
S-2	1+81	891.06	17.86	48	4' MH	8" N 873.40 8" E 878.75 8" E 873.30 8" W 873.20	4' MH (Cover Q) w/ Drop Connection, 8 in.



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

DATE: 12/12/24
DRAWN: AZD
TA: TA
CHECKED: TA

REV: 01
DESCRIPTION: BID SET

DATE: 12/12/24
DRAWN: AZD
TA: TA
CHECKED: TA

CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
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DESCRIPTION: SANITARY SEWER - HARDING RD

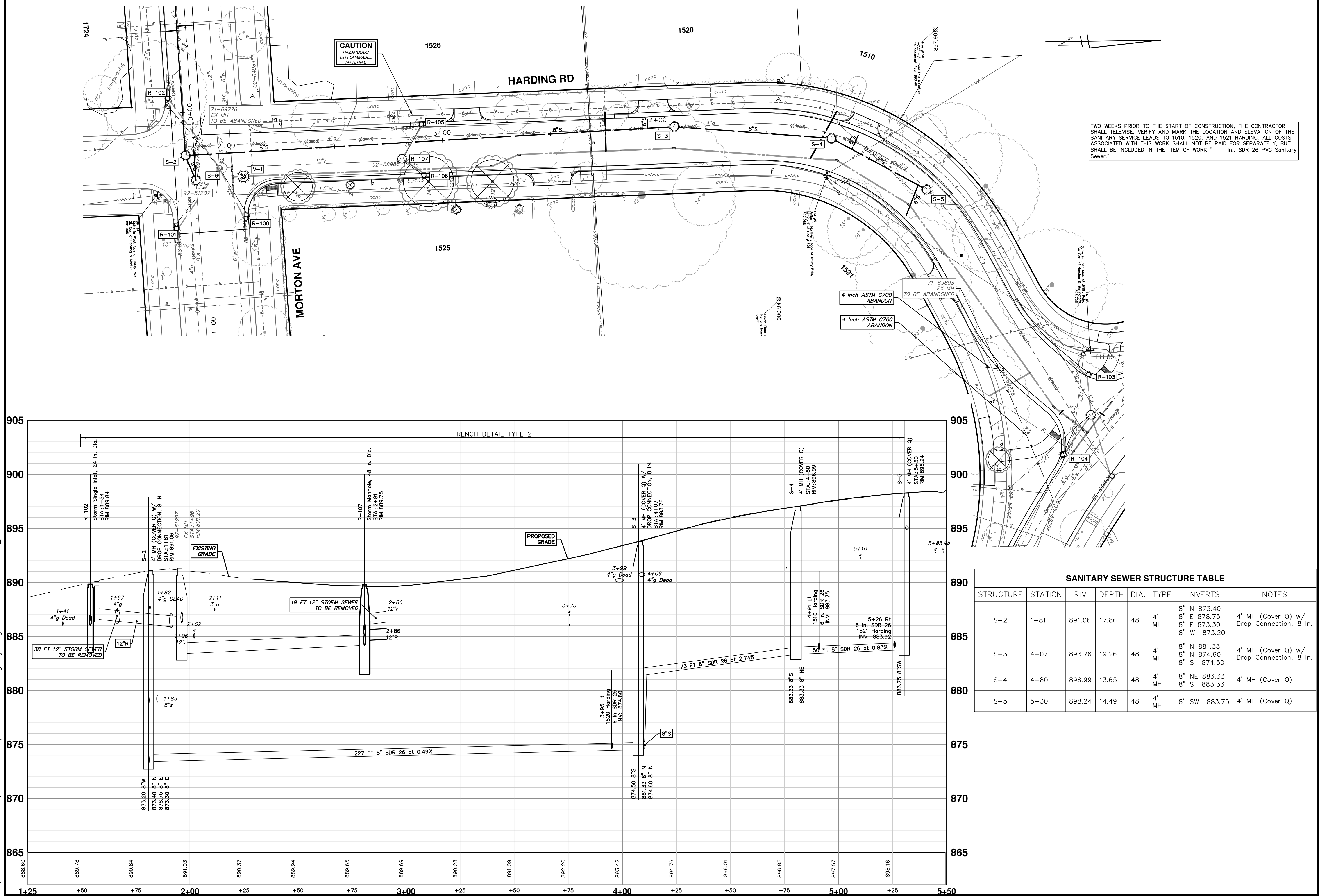
CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
2025 MISCELLANEOUS UTILITY PROJECTS
SANITARY SEWER - HARDING RD
STA. 0+00 - STA. 3+75

SCALE PLAN: 1" = 20'
PROFILE: 1" = 4'

SHEET No. 21 OF 52

DRAWING No. 2024006-21

R:\2024006 Misc Util 2025\Plan Production\2024006Saw_Harding.dwg Dwg Created: 10-Dec-24 - _o2_standard.bw.stb - Plot Date: 12-Dec-24



TWO WEEKS PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL TELEPHONE, VERIFY AND MARK THE LOCATION AND ELEVATION OF THE SANITARY SERVICE LEADS TO 1510, 1520, AND 1521 HARDING. ALL COSTS ASSOCIATED WITH THIS WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE ITEM OF WORK "___ in. SDR 26 PVC Sanitary Sewer."

SANITARY SEWER STRUCTURE TABLE							
STRUCTURE	STATION	RIM	DEPTH	DIA.	TYPE	INVERTS	NOTES
S-2	1+81	891.06	17.86	48	4' MH	8" N 873.40 8" E 878.75 8" W 873.20	4' MH (Cover Q) w/ Drop Connection, 8 in.
S-3	4+07	893.76	19.26	48	4' MH	8" N 881.33 8" N 874.60 8" S 874.50	4' MH (Cover Q) w/ Drop Connection, 8 in.
S-4	4+80	896.99	13.65	48	4' MH	8" NE 883.33 8" S 883.33	4' MH (Cover Q)
S-5	5+30	898.24	14.49	48	4' MH	8" SW 883.75	4' MH (Cover Q)

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

SCALE PLAN: 1" = 20'
PROFILE: 1" = 4'

DRAWING No. **2024006-22**

SHEET No. **22 OF 52**

2025 MISCELLANEOUS UTILITY PROJECTS

SANITARY SEWER - HARDING RD

STA. 1+49 - STA. 4+85

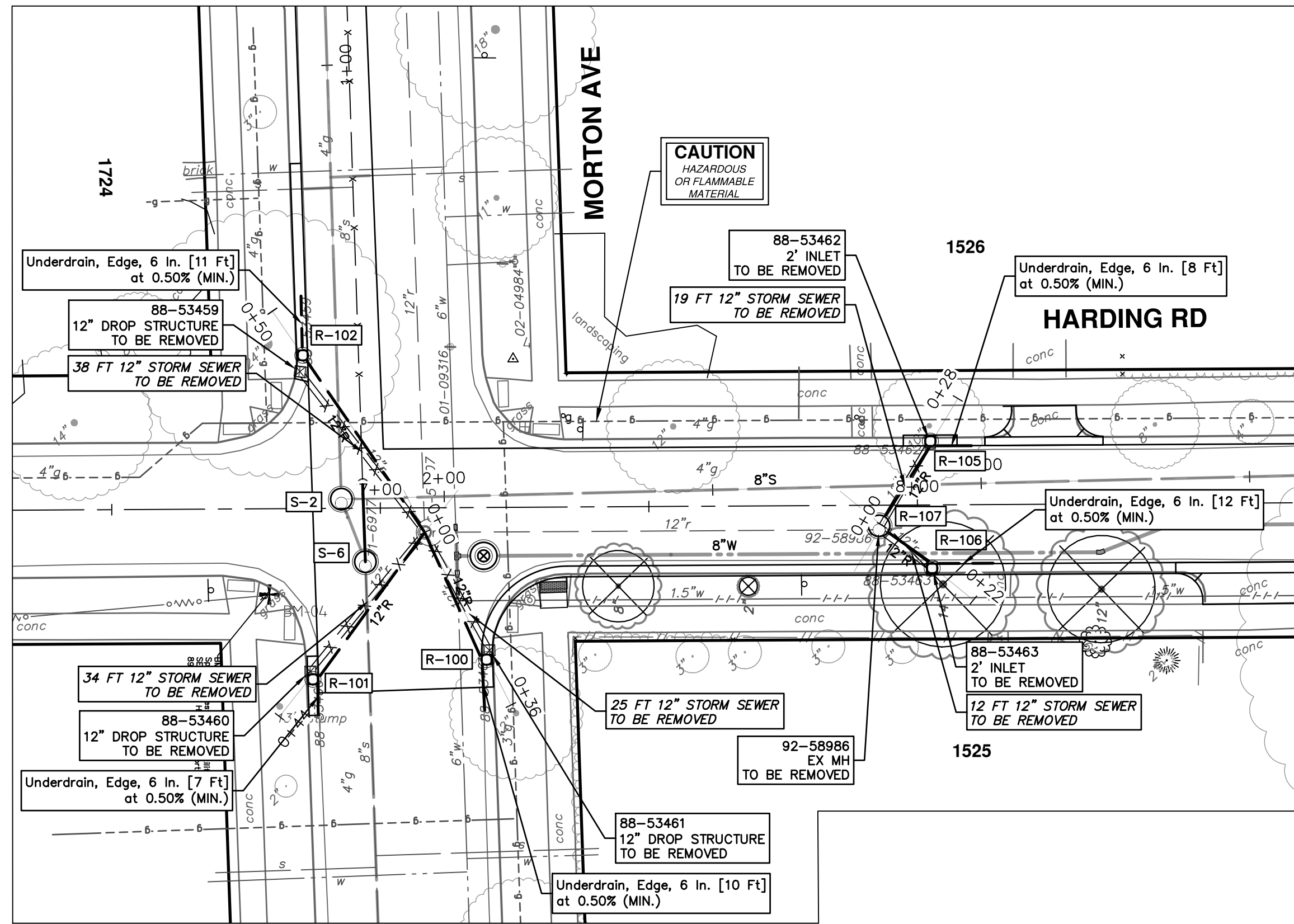
CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
ANN ARBOR, MI 48106-1667
www.a2gov.org

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	BID SET	12/12/24	AZD	TA

811
Know what's below.
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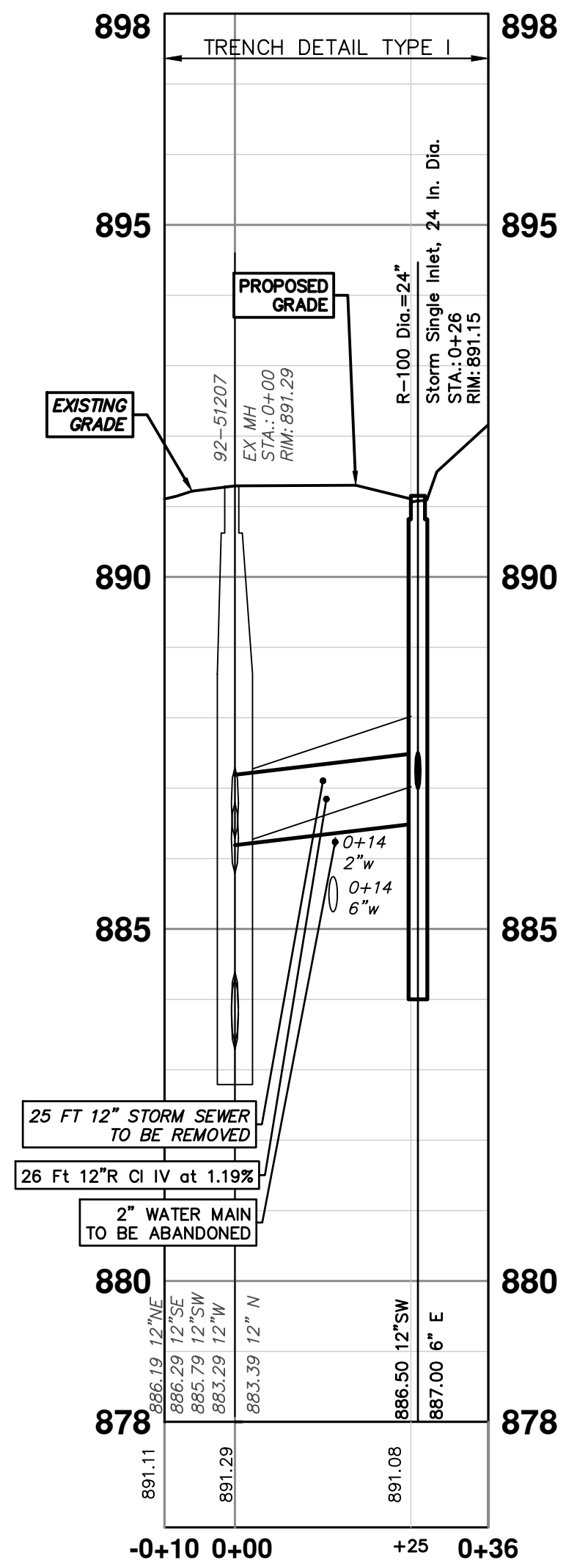
R:\2024006 Misc Util 2025\Plan Production\2024006Strm Harding.dwg Dwg Created: 10-Dec-24 - _c2 standard bw.stb - Plot Date: 12-Dec-24

EXISTING STORM SEWER STRUCTURE REMOVAL TABLE		
STRUCTURE	DEPTH (Feet)	REMOVE
88-53459	3.10	12" Drop Structure TO BE REMOVED
88-53461	3.84	12" Drop Structure TO BE REMOVED
88-53460	3.70	12" Drop Structure TO BE REMOVED
88-53462	2.70	2' Inlet TO BE REMOVED
88-53463	2.41	2' Inlet TO BE REMOVED
92-58986	5.70	EX MH TO BE REMOVED

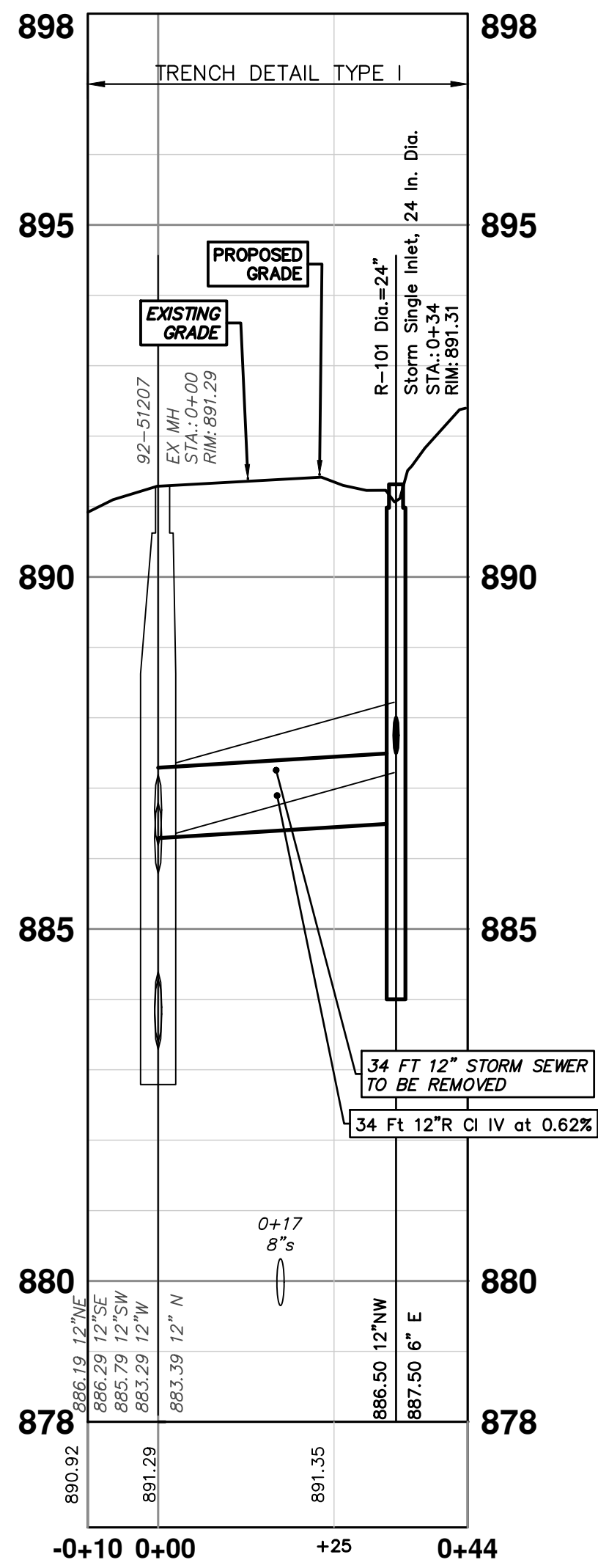


STORM SEWER STRUCTURE TABLE						
STRUCTURE	UTILITY STATION	TYPE	RIM	INVERTS	DEPTH (Feet)	SUMP
R-100	0+26	Storm Single Inlet, 24 In. Dia.	891.15	6" E 887.00 12" SW 886.50	6.65	2'
R-101	0+34	Storm Single Inlet, 24 In. Dia.	891.31	6" E 887.50 12" NW 886.50	6.81	2'
R-102	0+40	Storm Single Inlet, 24 In. Dia.	889.84	6" W 886.50 12" NE 886.00	5.84	2'
R-105	0+17	Storm Single Inlet, 24 In. Dia.	889.11	6" N 886.12 12" SE 884.70	6.40	2'
R-106	0+12	Storm Single Inlet, 24 In. Dia.	889.58	12" SW 885.14 6" N 885.72	6.44	2'
R-107	0+00	Storm Manhole, 48 In. Dia.	889.75	12" NW 884.62 12" NE 885.09 12" S 884.16	7.59	2'

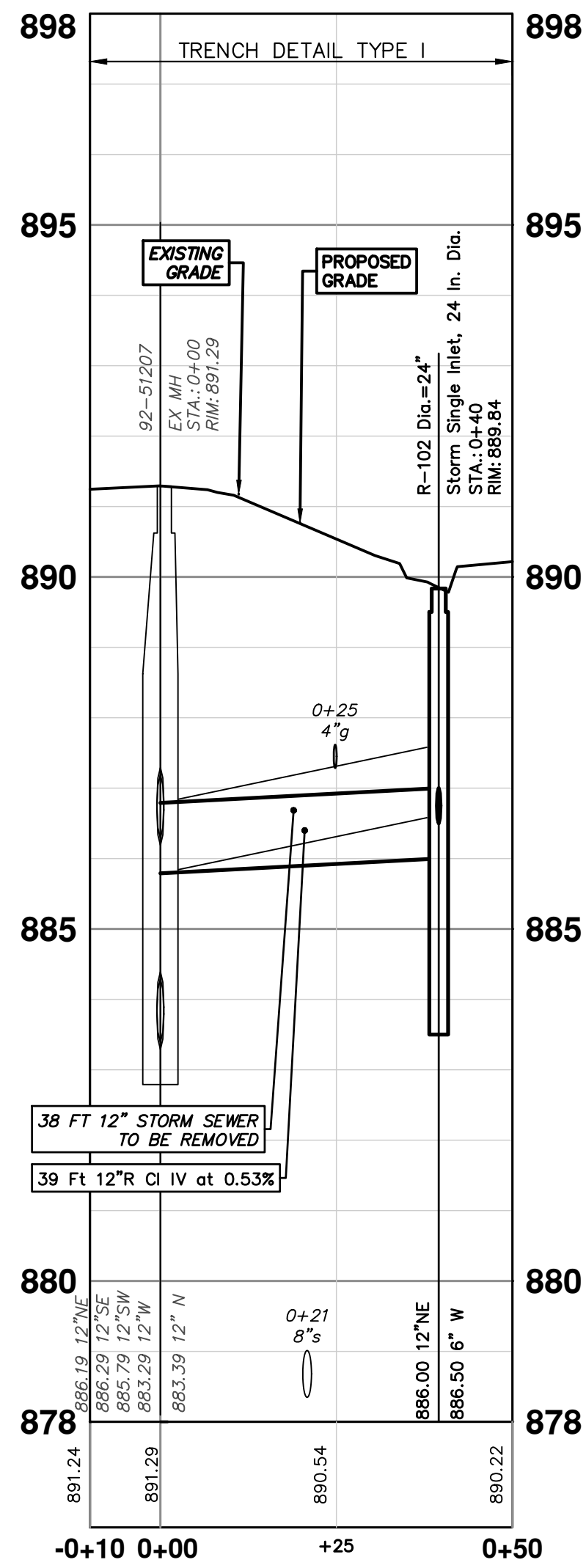
92-51207 - R-100



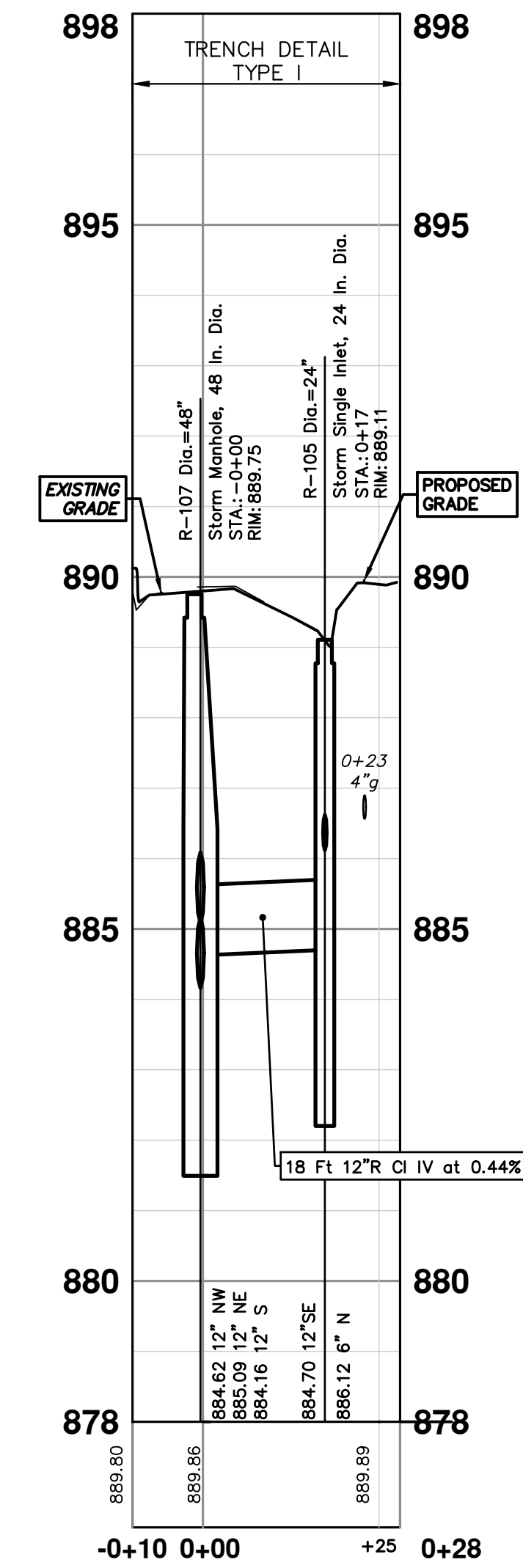
92-51207 - R-101



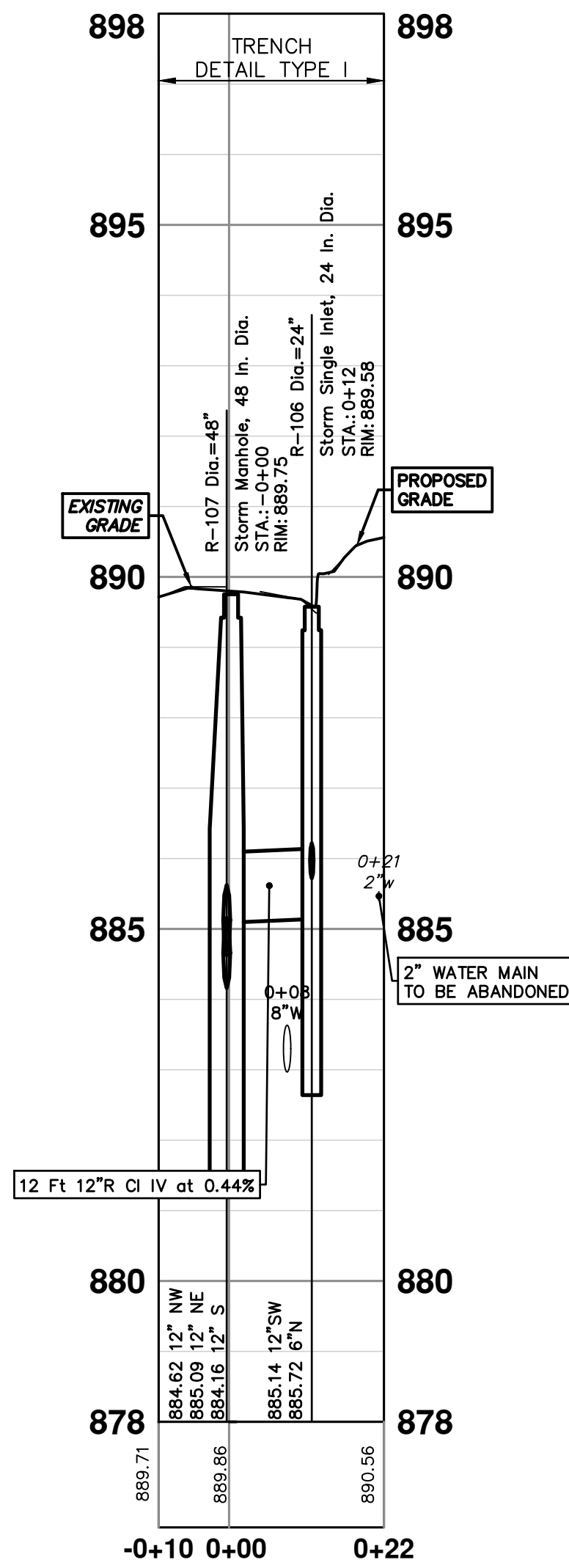
92-51207 - R-102



R-107 - R-105



R-107 - R-106



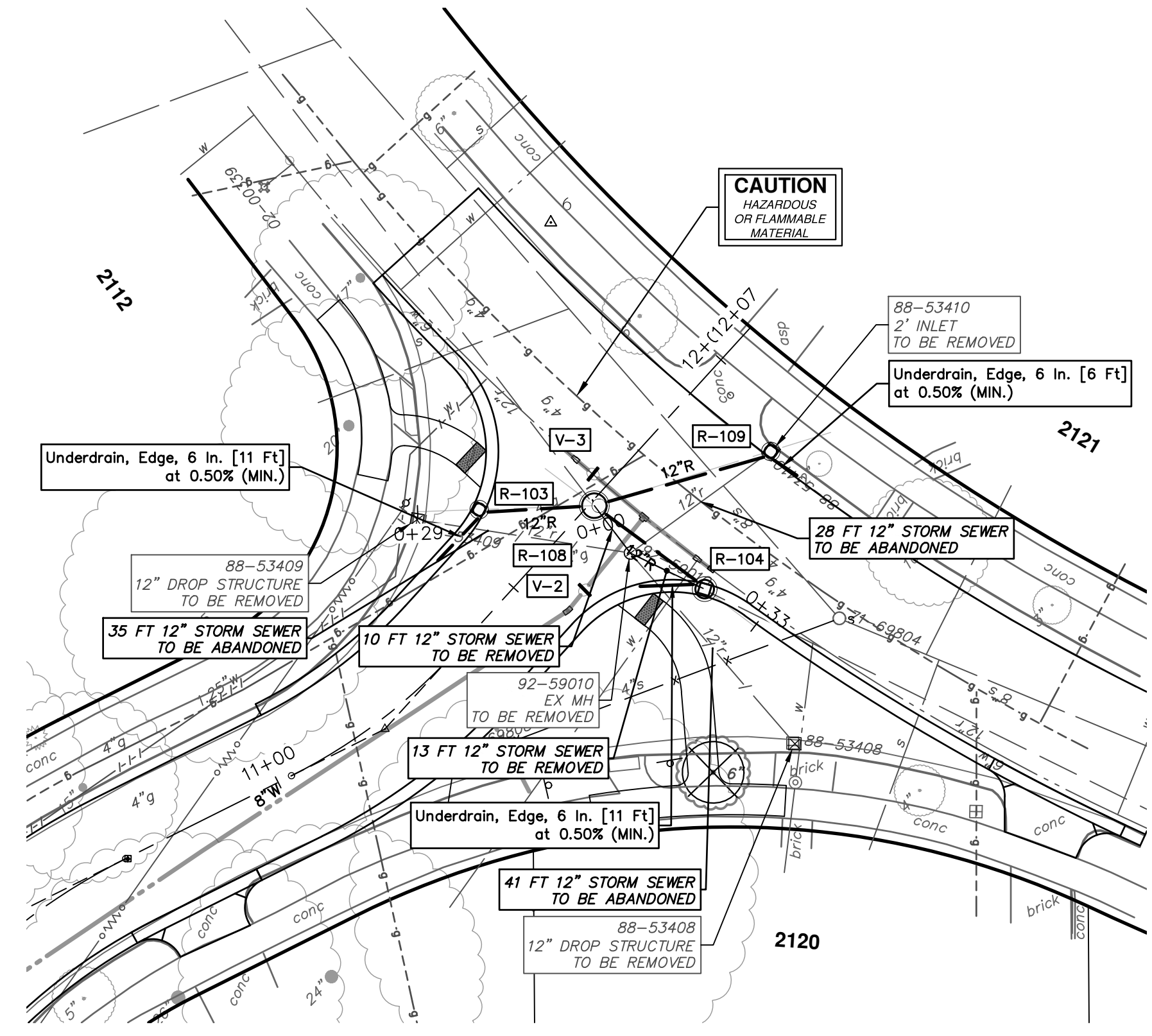
REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	BID SET	12/12/24	TA	

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2025 MISCELLANEOUS UTILITY PROJECTS
STORM SEWER - HARDING RD
R-100 - R-102, R-105 - R-107

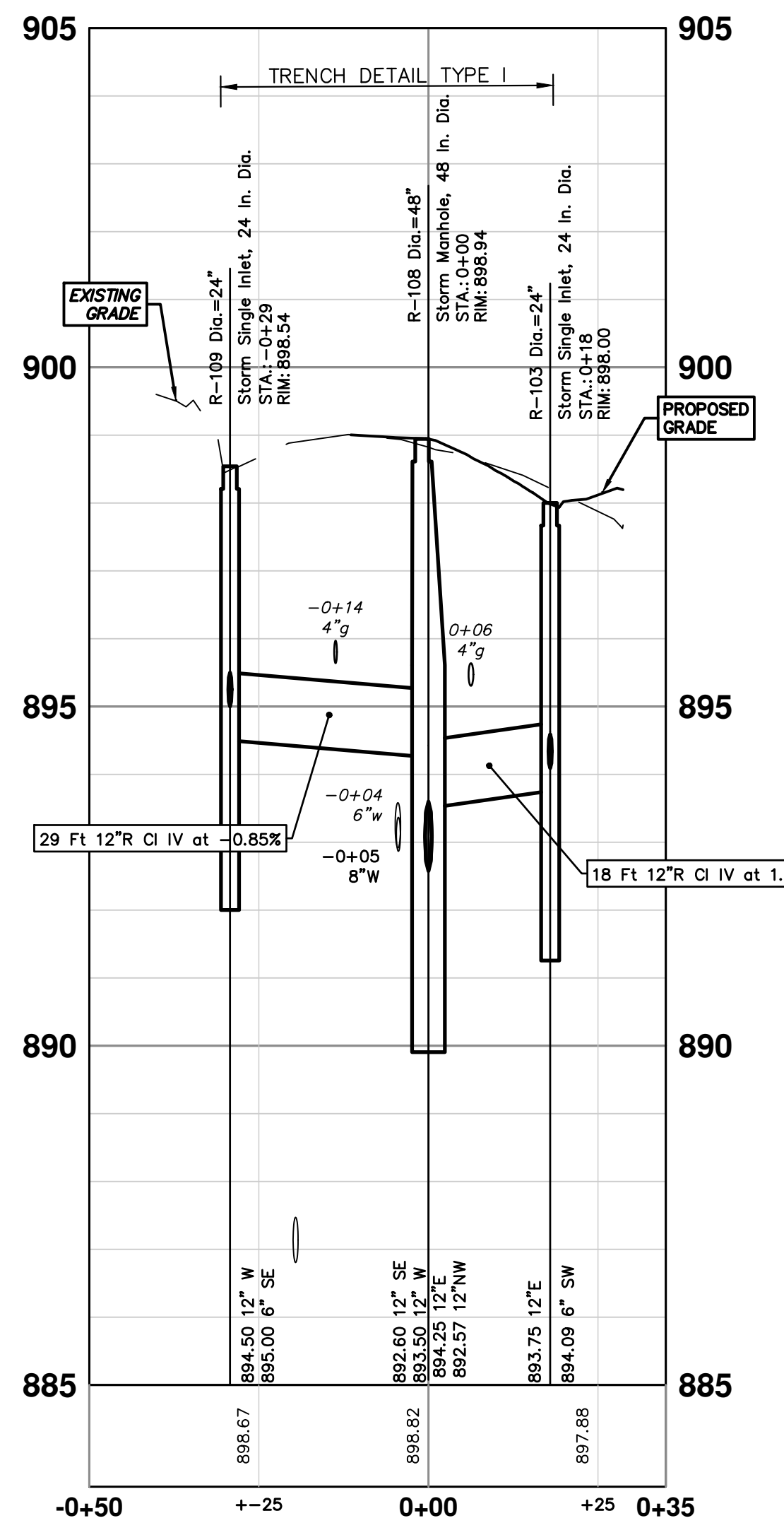
SCALE PLAN: 1" = 20'
PROFILE: 1" = 4'
DRAWING NO.: 2024006-23



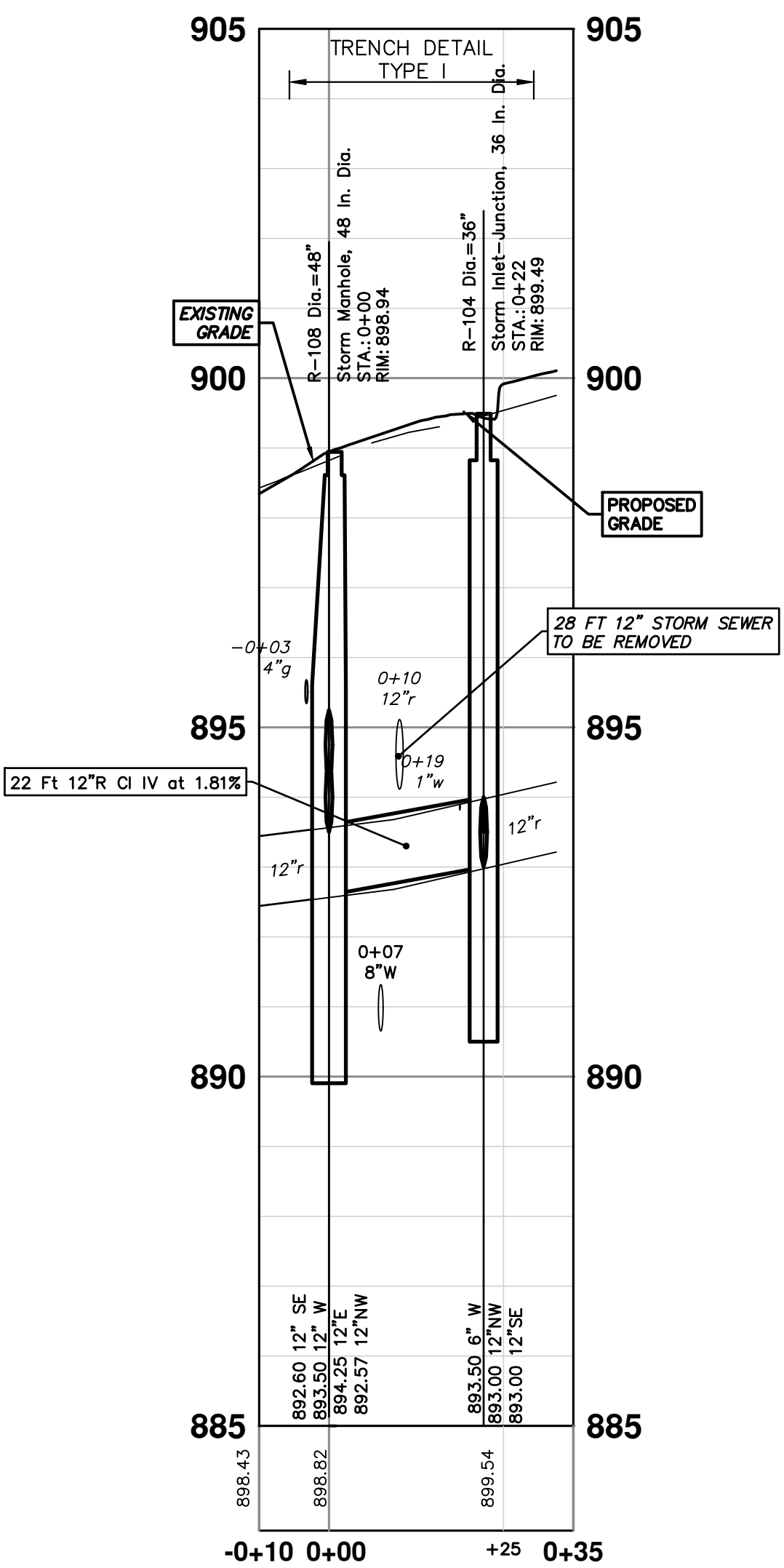
STRUCTURE	DEPTH (Feet)	REMOVE
88-53409	2.51	12" Drop Structure TO BE REMOVED
88-53410	3.11	2' Inlet TO BE REMOVED
88-53408	4.14	12" Drop Structure TO BE REMOVED
92-59010	6.51	EX MH TO BE REMOVED

STRUCTURE	UTILITY STATION	TYPE	RIM	INVERTS	DEPTH (Feet)	SUMP
R-103	0+18	Storm Single Inlet, 24 In. Dia.	898.00	6" SW 894.09 12" E 893.75	6.25	2'
R-104	0+22	Storm Inlet-Junction, 36 In. Dia.	899.49	6" W 893.50 12" NW 893.00 12" SE 893.00	8.49	2'
R-108	0+00	Storm Manhole, 48 In. Dia.	898.94	12" SE 892.60 12" W 893.50 12" E 894.25 12" NW 892.57	8.37	2'
R-109	0+29	Storm Single Inlet, 24 In. Dia.	898.54	12" W 894.50 6" SE 895.00	6.04	2'

R-109 - R-108 - R-103



R-108 - R-104



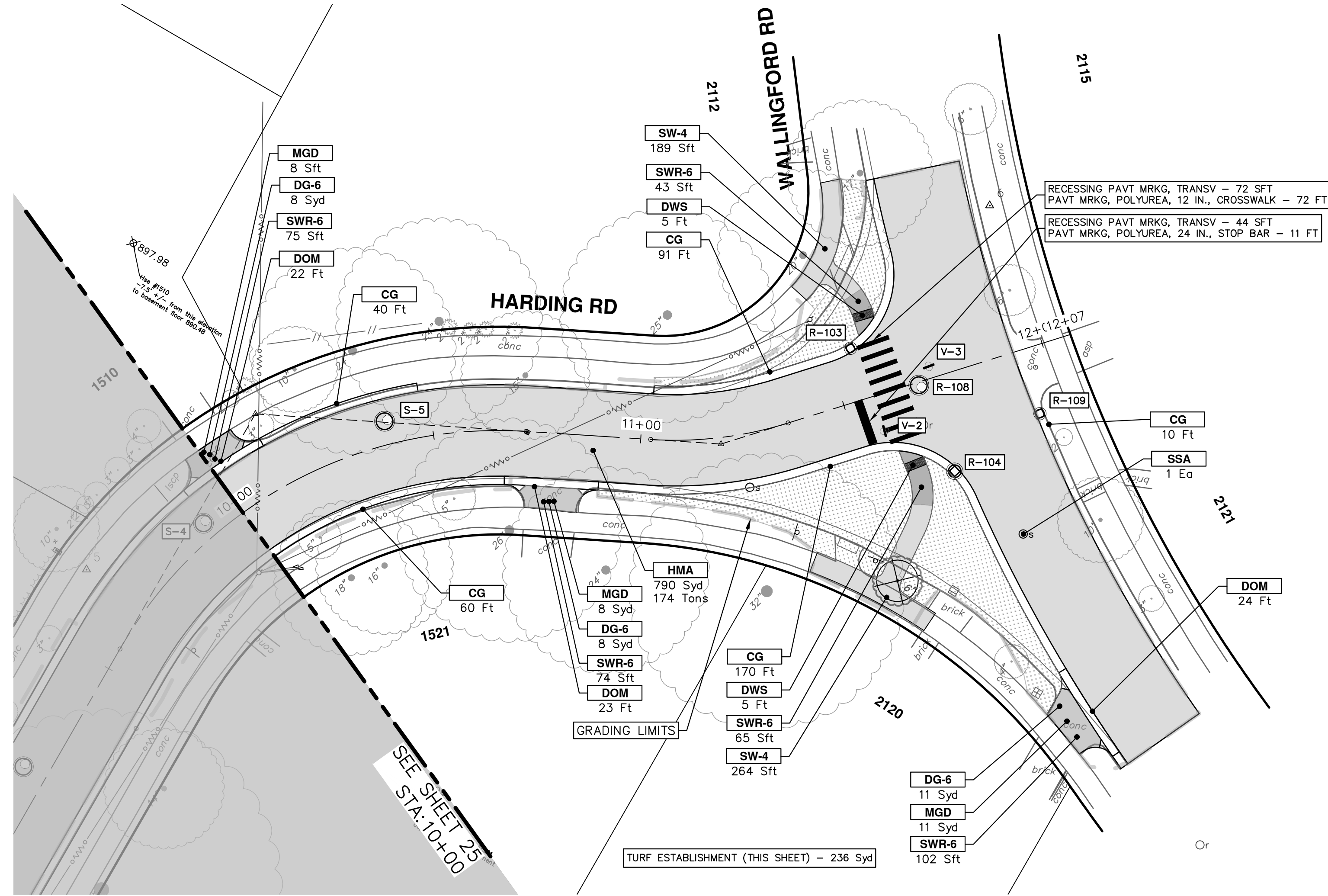
REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	BID SET	12/12/24	AZD	TA

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PUBLIC SERVICES
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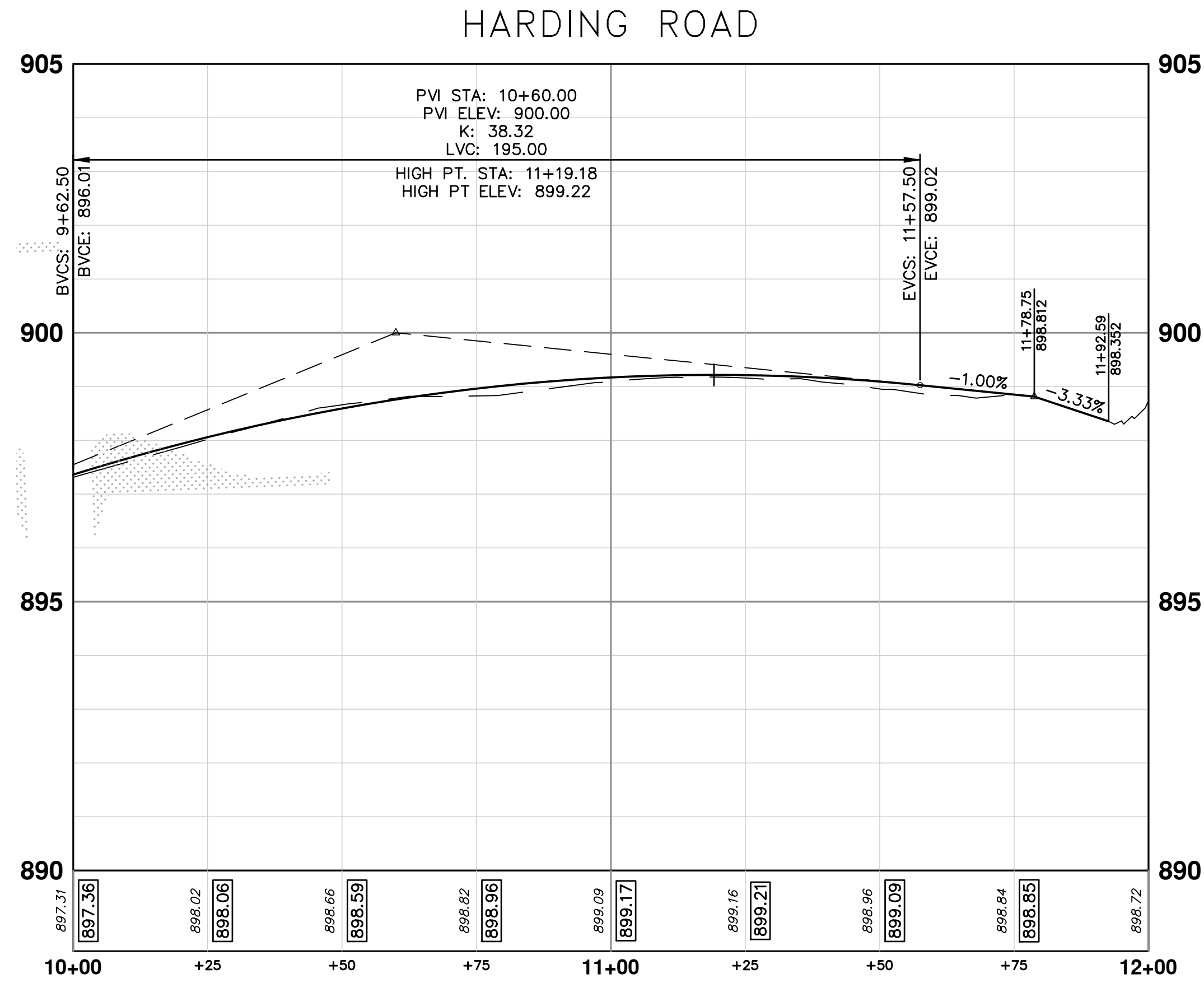


CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
2025 MISCELLANEOUS UTILITY PROJECTS
STORM SEWER - HARDING RD
R-103, R-104

SCALE PLAN: 1" = 20'
PROFILE: 1" = 4'
DRAWING No. 2024006-24



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



REV.	DATE	DESCRIPTION
01	12/12/24	BID SET
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		CHECKED

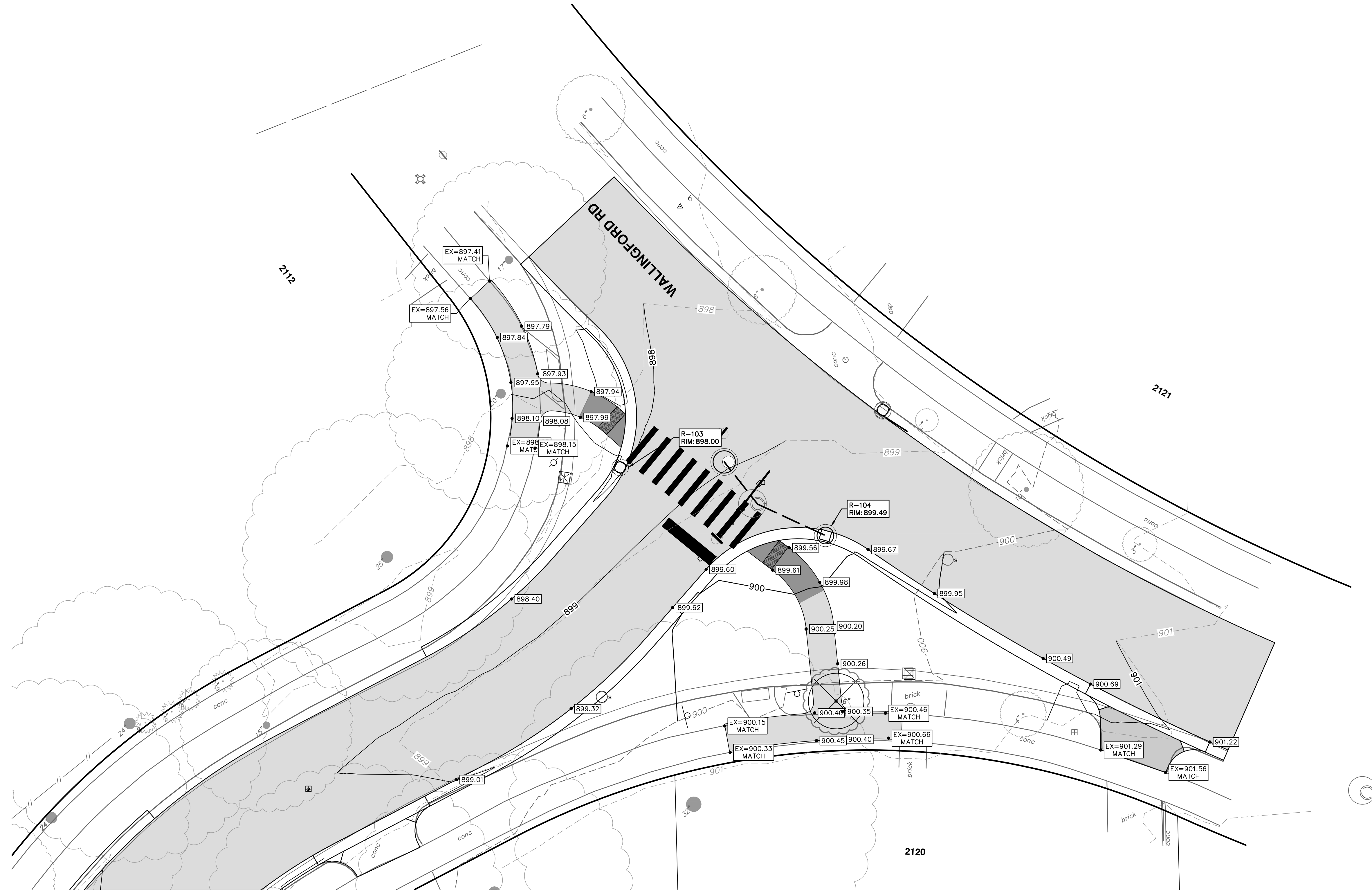
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2025 MISCELLANEOUS UTILITY PROJECTS
ROAD PLAN & PROFILE - HARDING RD
STA. 10+00 - STA. 11+98

SHEET No. 26 OF 52
SCALE PLAN: 1" = 20'
PROFILE: 1" = 2'
DRAWING No. 2024006-26

R:\2024006 Misc Util 2025\Plan Production\2024006IG Harding.dwg Dwg Created: 14-Nov-24 --_a2 standard bw.stb -- Plot Date: 12-Dec-24



REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	BID SET	12/12/24	AZD	TA

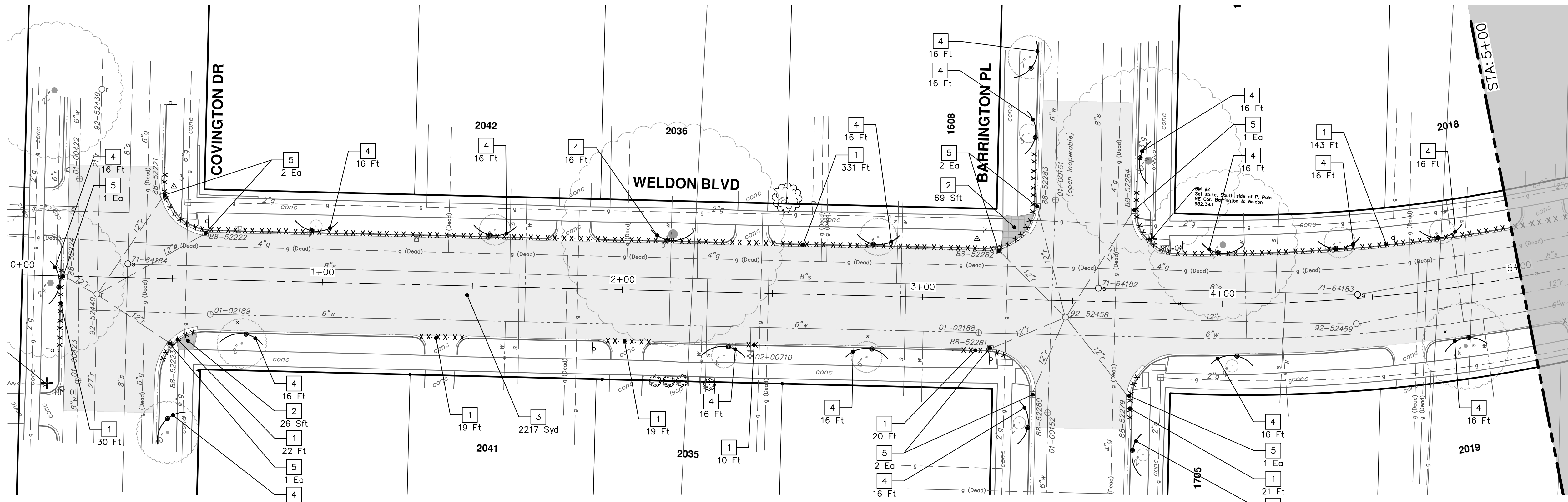
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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
2025 MISCELLANEOUS UTILITY PROJECTS

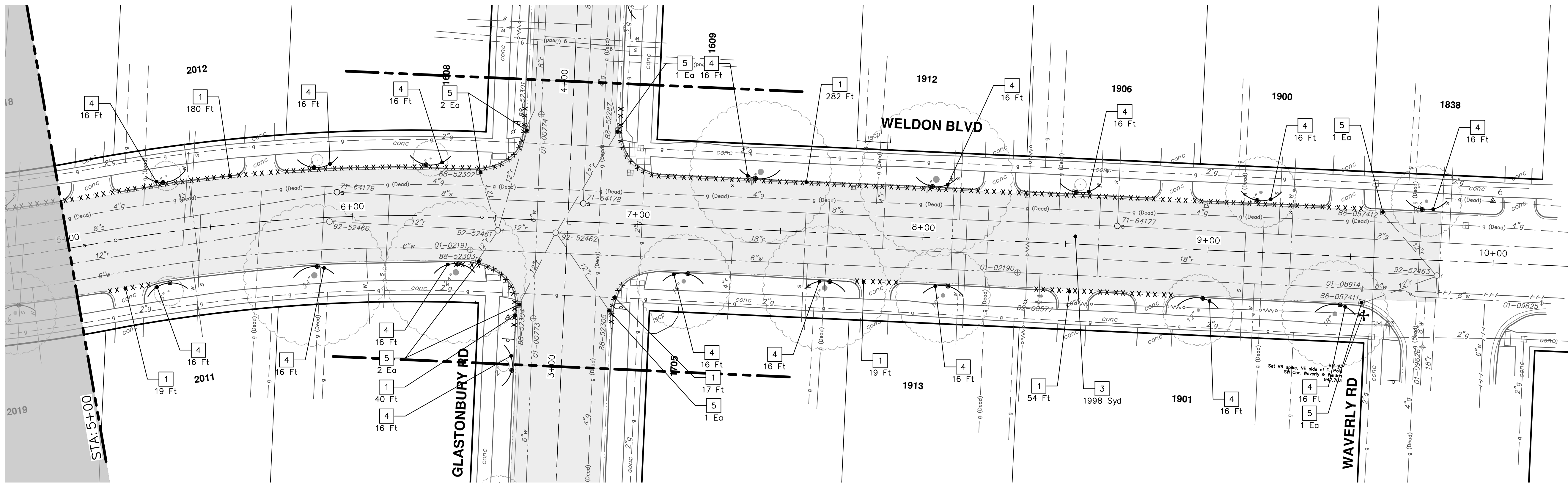
HARDING - WALLINGFORD INTERSECTION GRADING

SCALE PLAN: 1" = 10'
DRAWING No. 2024006-27



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

2025 MISCELLANEOUS UTILITY PROJECTS

REMOVALS - WELDON BLVD

STA. 0+00 - STA. 10+25

SCALE: 1" = 20'

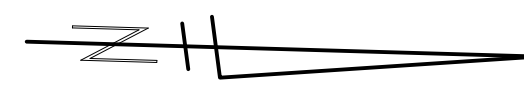
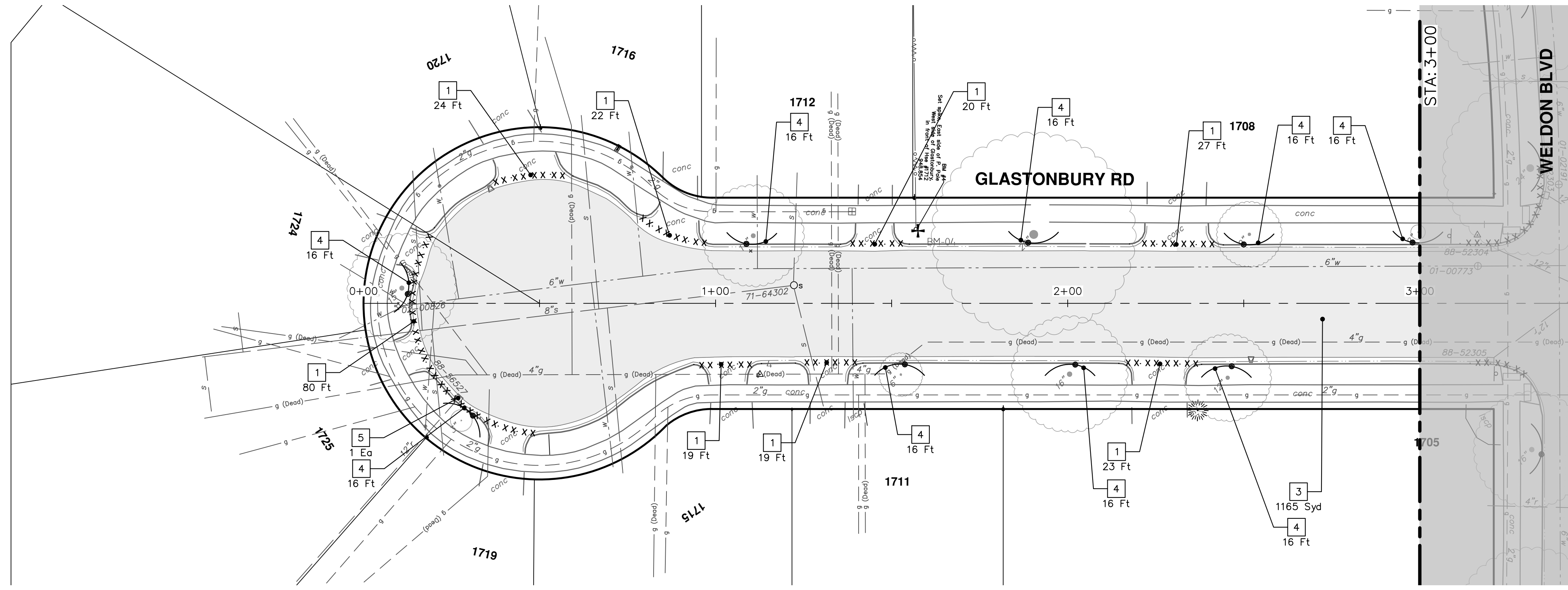
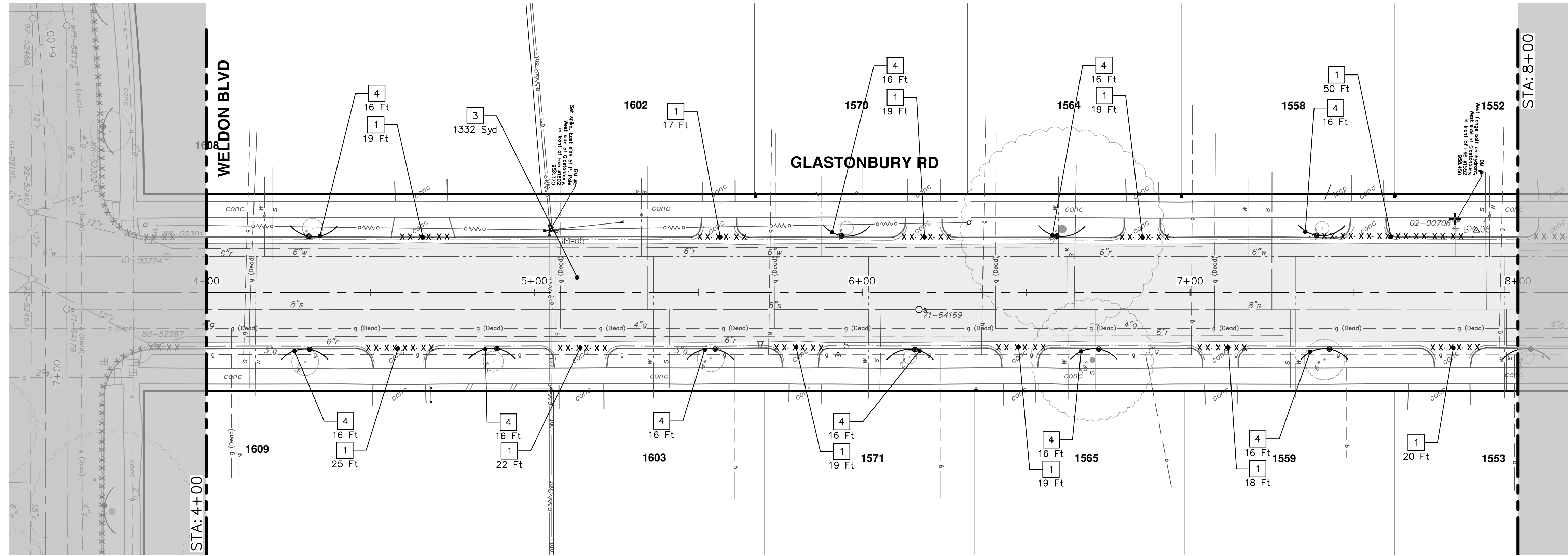
DRAWING No. 2024006-28

SHEET No. 28 OF 52

811
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01	BID SET	REV.
12/12/24	DATE	DESCRIPTION
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TA		

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ANN ARBOR 734.794.4410
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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



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REV.	DESCRIPTION
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AZD	DRAWN
TA	CHECKED



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WATER MAIN STRUCTURES			
STRUCTURE	TYPE	STATION	RIM
V-12	Gate Valve in Box, 8 In.	0+19	951.03
V-1	Gate Valve in Box, 8 In.	0+41	950.96
V-2	Gate Valve in Well, 8 In.	3+66	951.28

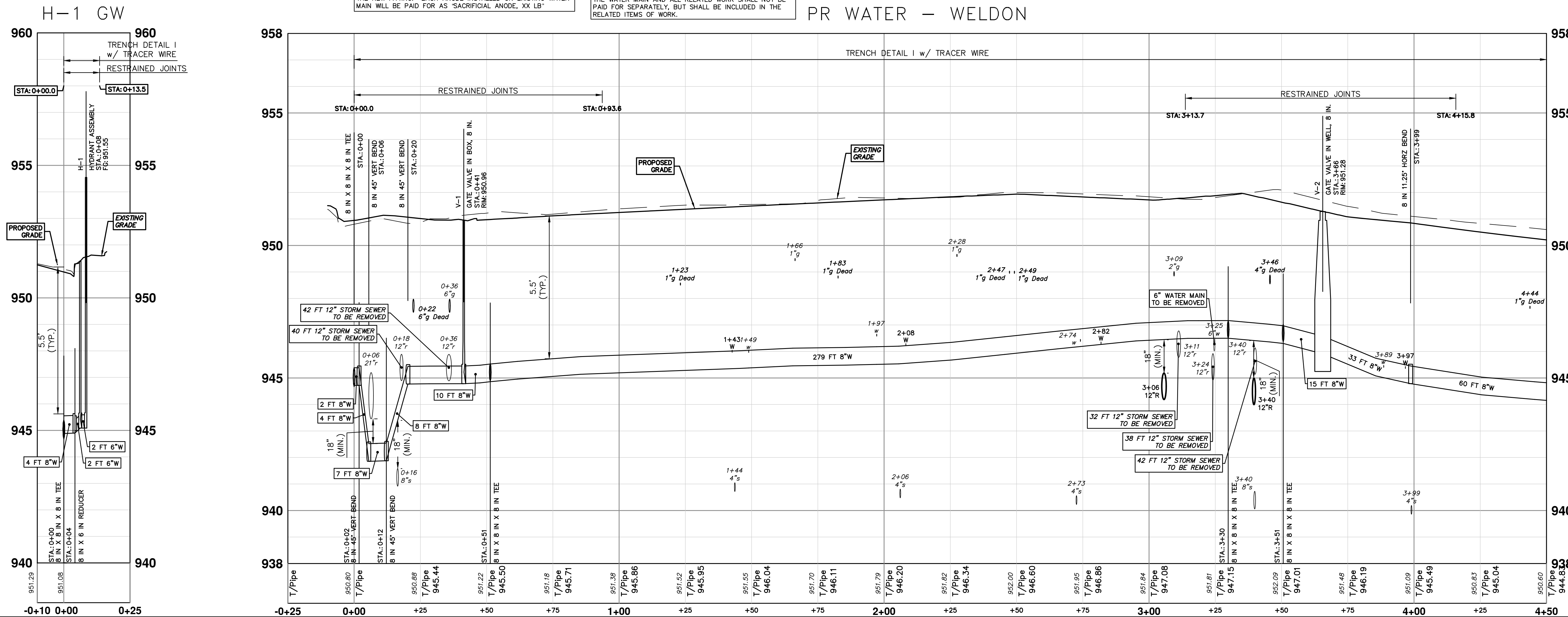
WATER MAIN STRUCTURES			
STRUCTURE	TYPE	STATION	FG
H-1	Hydrant Assembly	0+08	951.55


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.


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





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01	BID SET	12/12/24	AZD	TA



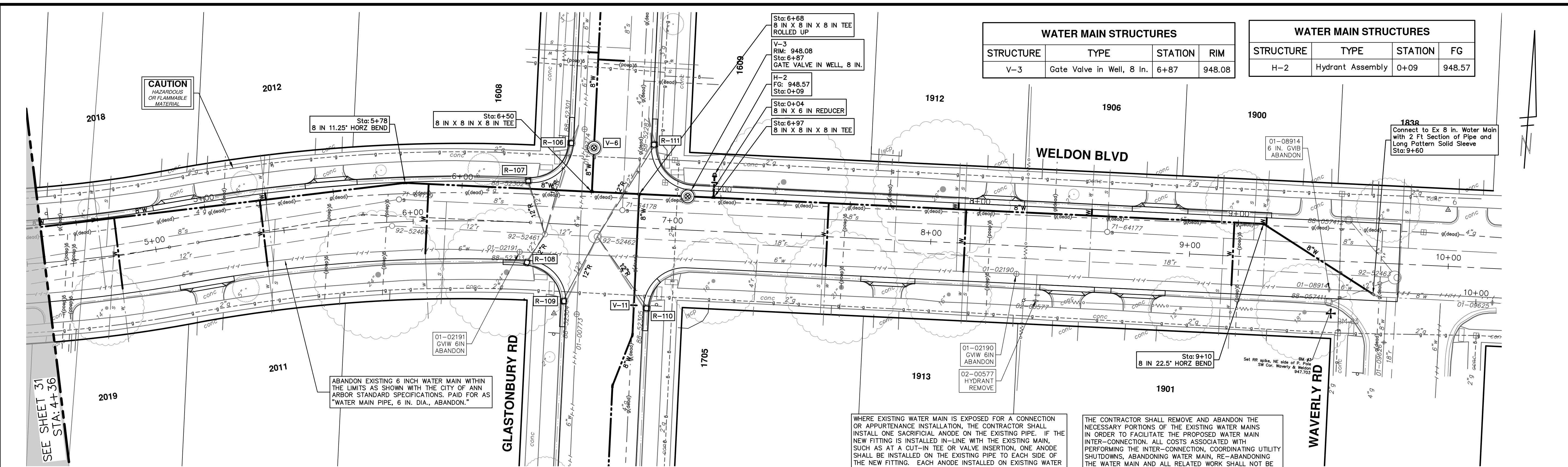
CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
2025 MISCELLANEOUS UTILITY PROJECTS
WATER MAIN - WELDON BLVD

STA. 0+00 - STA. 4+50, HYD H-1

DRAWING NO. 2024006-31

SHEET NO. 31 OF 52

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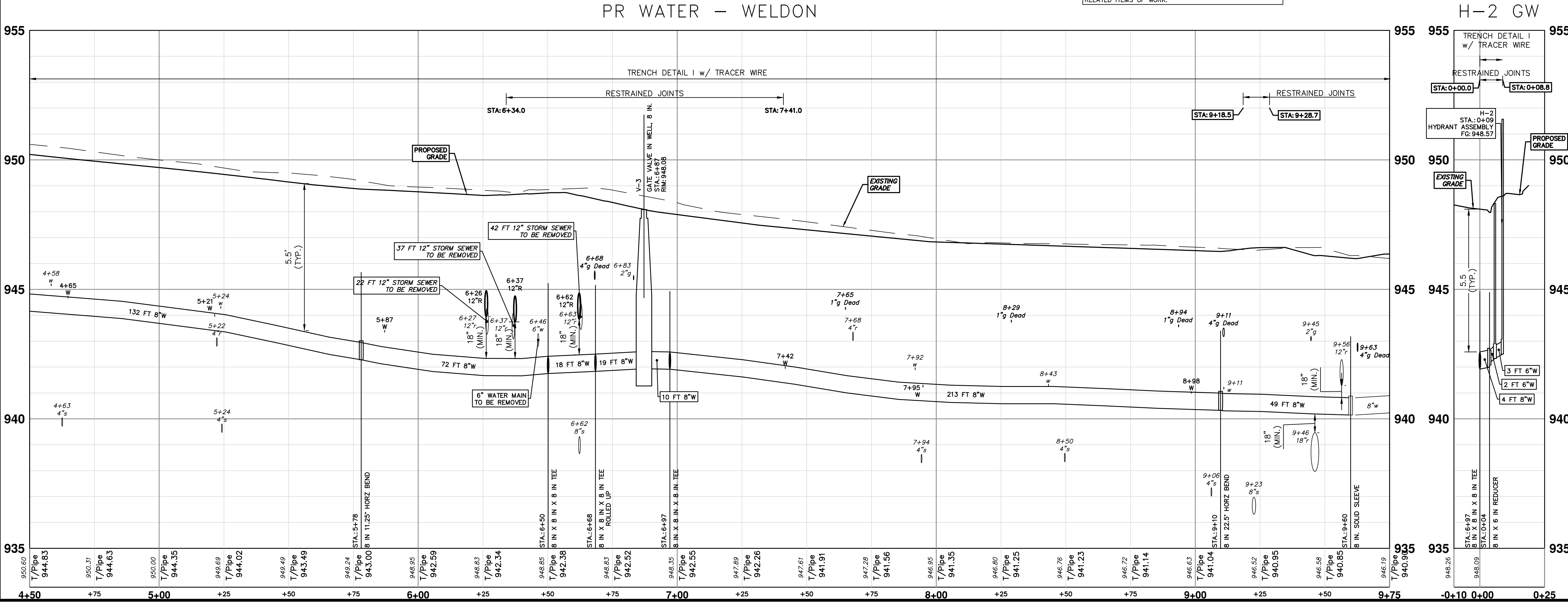



WATER MAIN STRUCTURES			
STRUCTURE	TYPE	STATION	RIM
V-3	Gate Valve in Well, 8 in.	6+87	948.08

WATER MAIN STRUCTURES			
STRUCTURE	TYPE	STATION	FG
H-2	Hydrant Assembly	0+09	948.57

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.

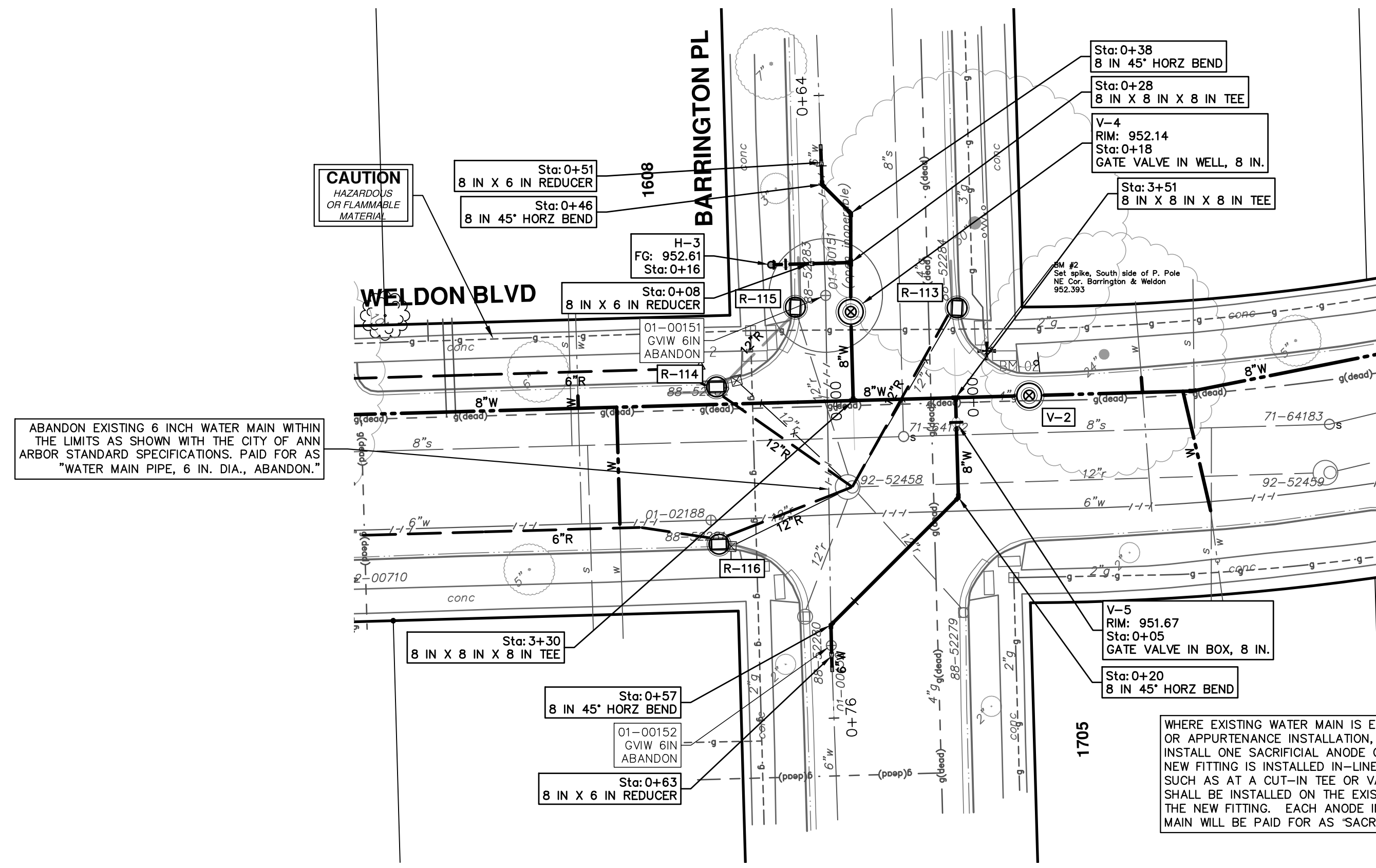




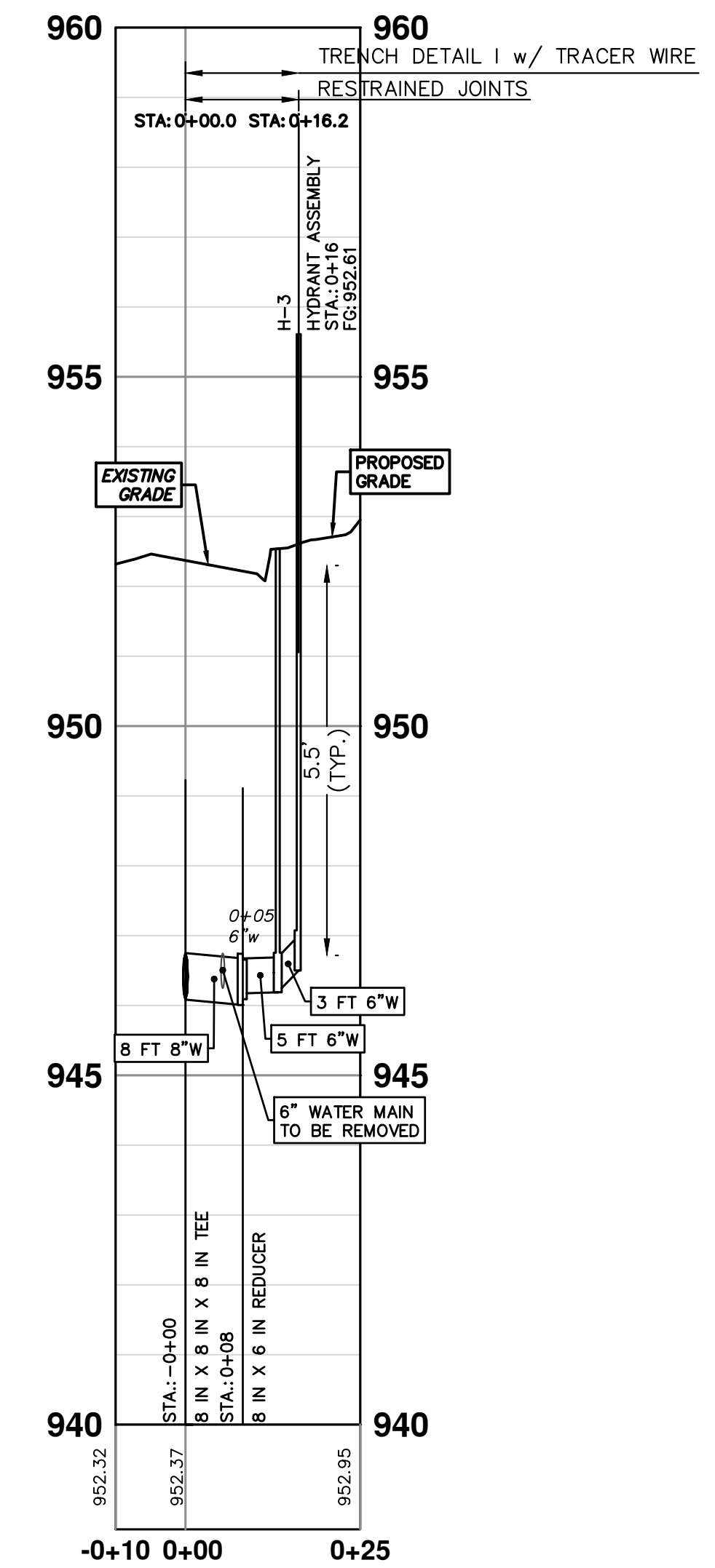
CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
2025 MISCELLANEOUS UTILITY PROJECTS
 WATER MAIN - WELDON BLVD
 STA. 4+50 - STA. 9+66, HYD H-2

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	BID SET	12/12/24	AZD	

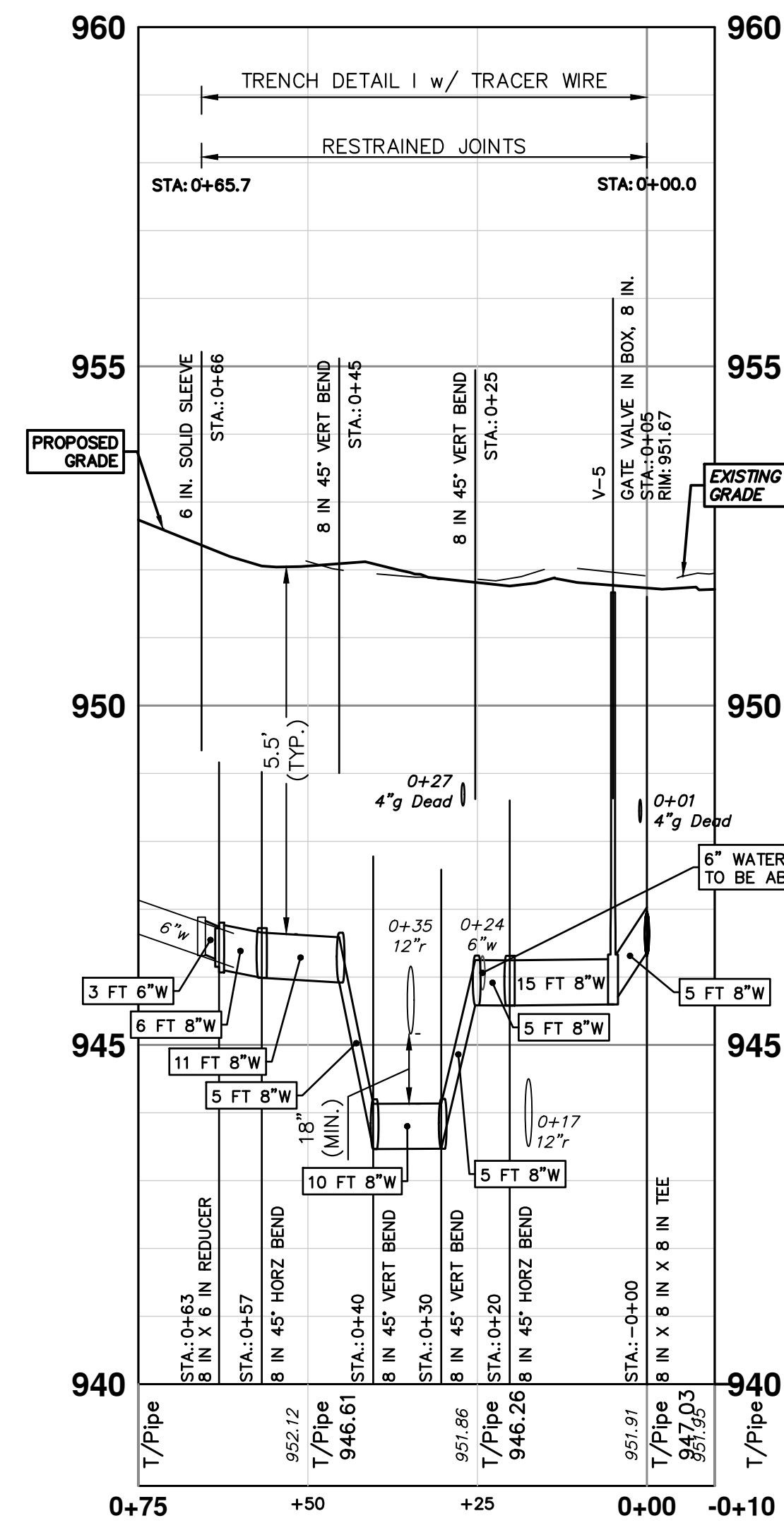
SHEET NO. **32 OF 52**
 SCALE PLAN: 1" = 20'
 PROFILE: 1" = 2'
 DRAWING NO. **2024006-32**



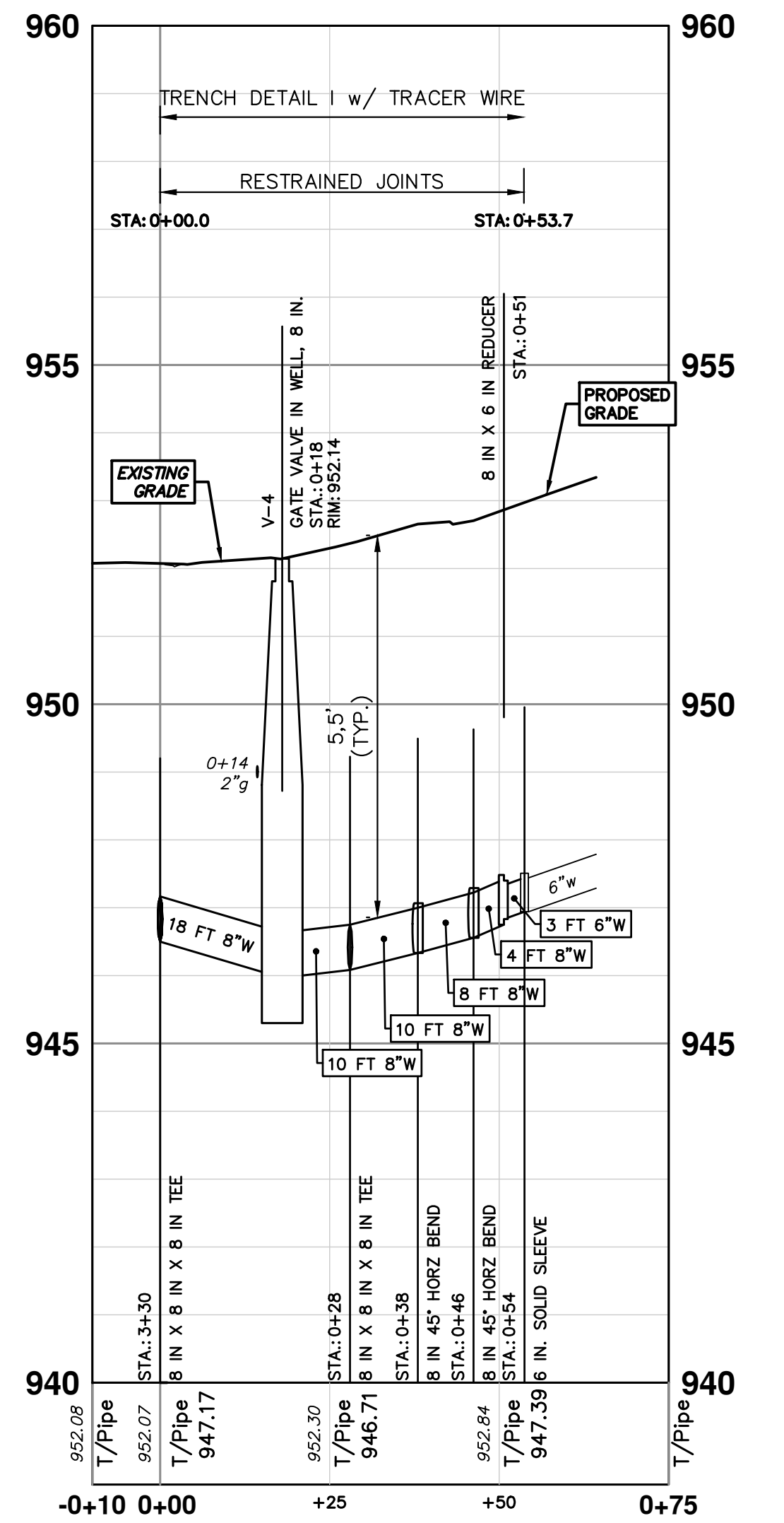
H-3 GW



PR WATER GW - BARRINGTON PL SOUTH



PR WATER GW - BARRINGTON PL NORTH



WATER MAIN STRUCTURES			
STRUCTURE	TYPE	STATION	RIM
V-4	Gate Valve in Well, 8 In.	0+18	952.14

WATER MAIN STRUCTURES			
STRUCTURE	TYPE	STATION	FG
H-3	Hydrant Assembly	0+16	952.61

WATER MAIN STRUCTURES			
STRUCTURE	TYPE	STATION	RIM
V-5	Gate Valve in Box, 8 In.	0+05	951.67

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.



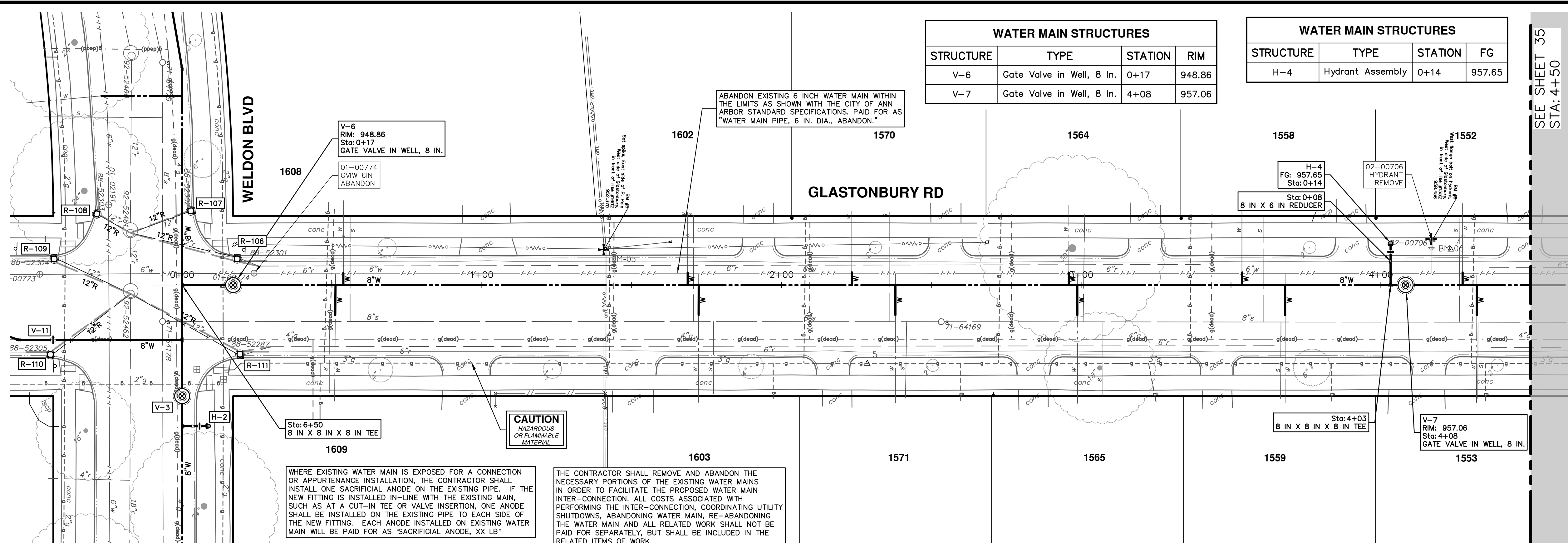
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ANN ARBOR, MI 48107-8647
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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
2025 MISCELLANEOUS UTILITY PROJECTS
WATER MAIN - BARRINGTON PL
STA. 0+00 - STA. 0+85(S), STA. 0+00 - STA. 0+54(N), HYD H-3

SCALE PLAN: 1" = 20'
PROFILE: 1" = 2'
DRAWING NO.: 2024006-33

R:\2024006 Misc Util 2025\Plan Production\2024006Wtr2 GlasWeld.dwg Dwg Created: 10-Dec-24 - _g2 standard bw.stb - Plot Date: 12-Dec-24



WATER MAIN STRUCTURES			
STRUCTURE	TYPE	STATION	RIM
V-6	Gate Valve in Well, 8 In.	0+17	948.86
V-7	Gate Valve in Well, 8 In.	4+08	957.06

WATER MAIN STRUCTURES			
STRUCTURE	TYPE	STATION	FG
H-4	Hydrant Assembly	0+14	957.65

SEE SHEET 35
STA: 4+50

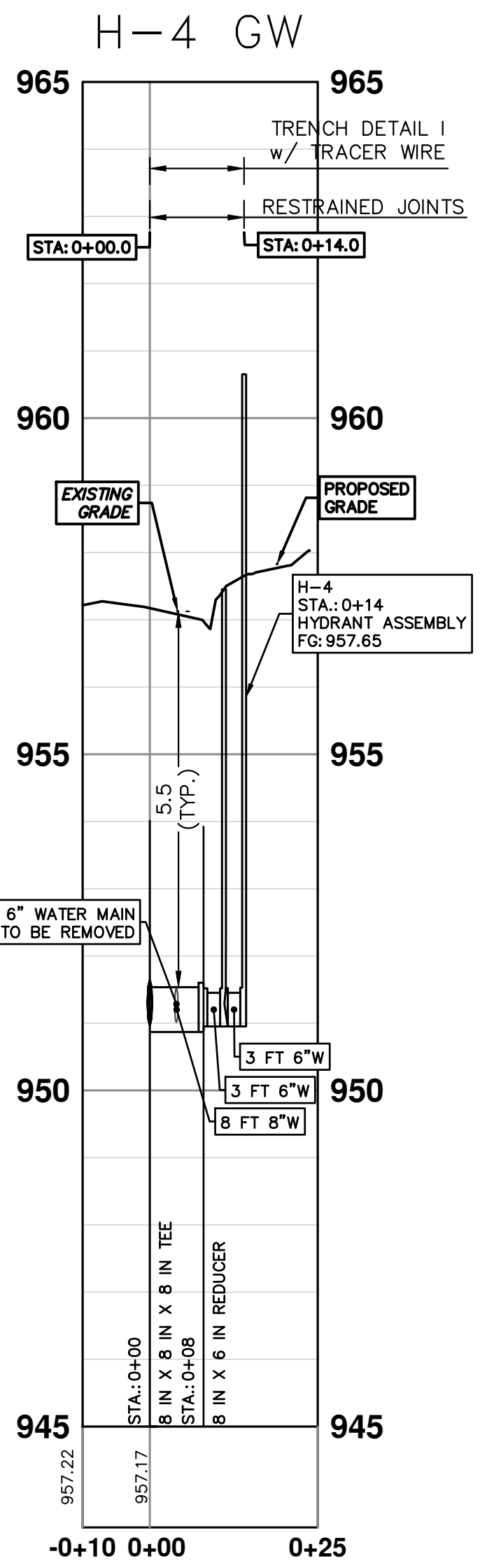
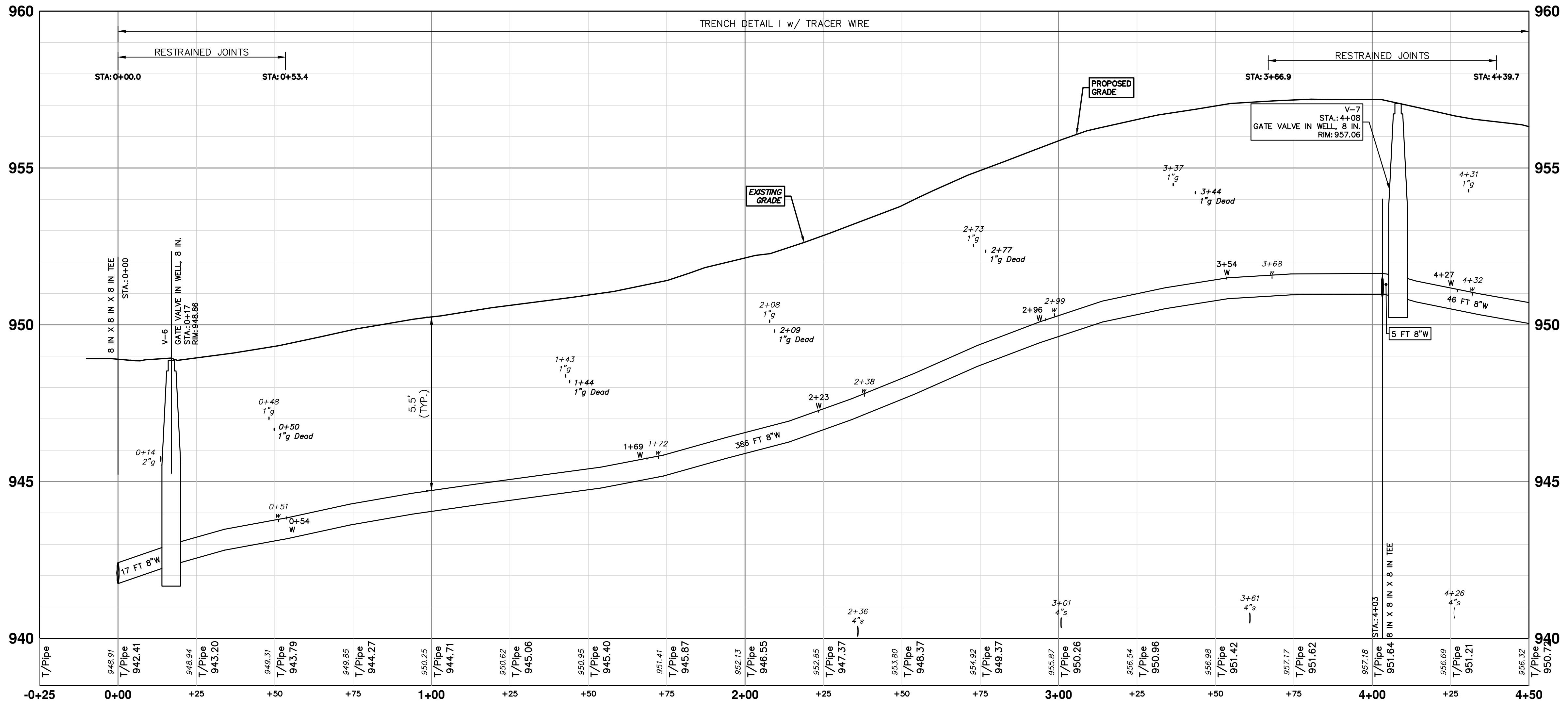


CAUTION
HAZARDOUS
OR FLAMMABLE
MATERIAL

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"

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PR WATER - GW - GLASTONBURY NORTH



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DESCRIPTION

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2025 MISCELLANEOUS UTILITY PROJECTS

WATER MAIN - GLASTONBURY (NORTH)

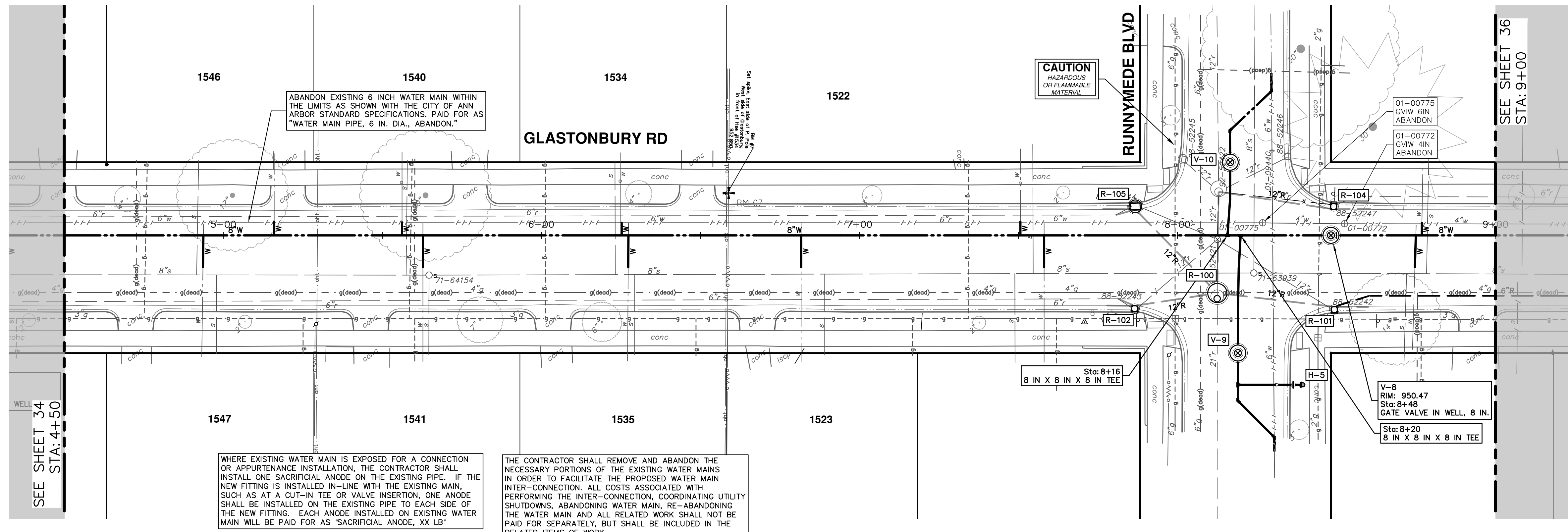
SCALE PLAN: 1" = 20'
PROFILE: 1" = 2'

DRAWING NO: 2024006-34

STA. 0+00 - STA. 4+50, HYD H-4

SHEET NO. 34 OF 52

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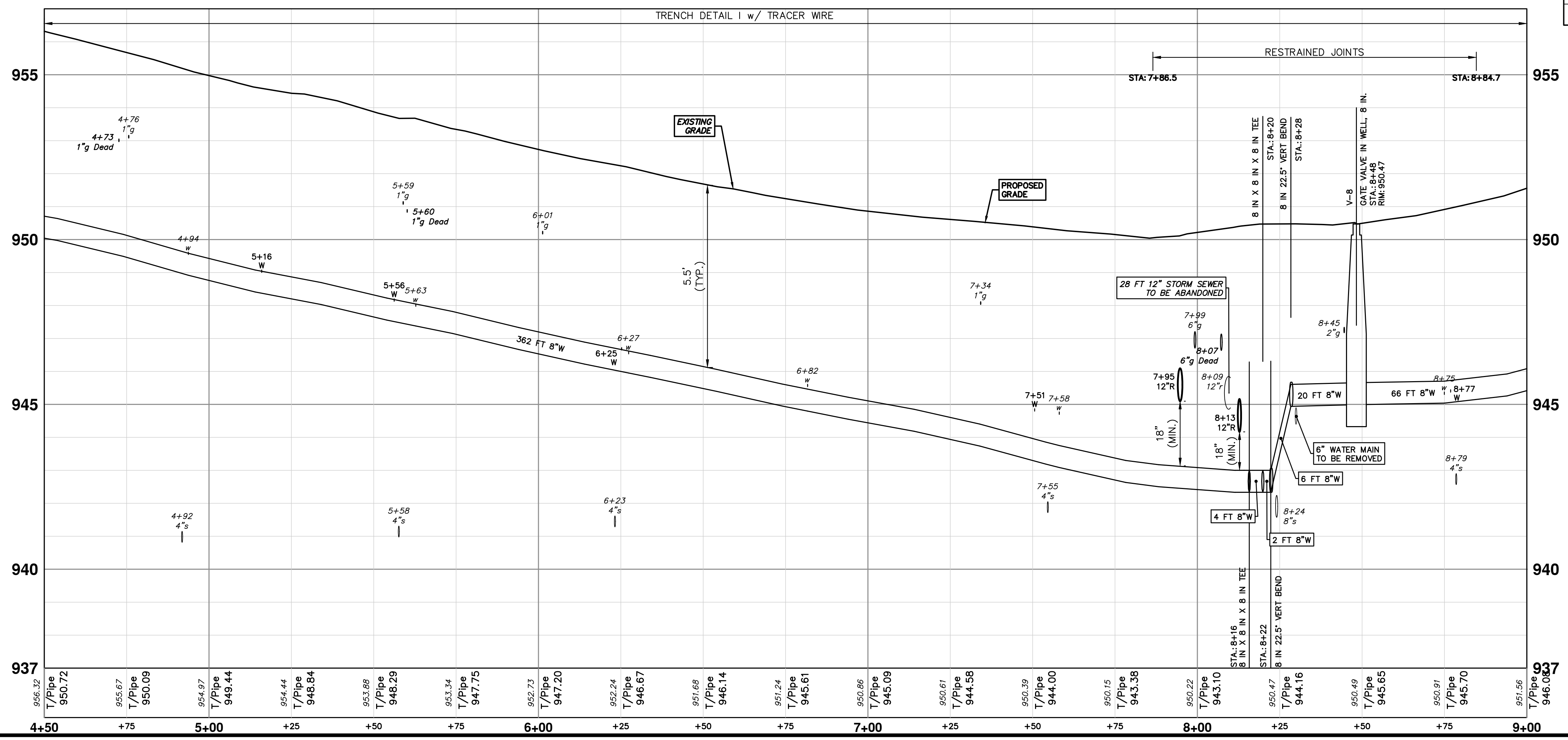


WHERE EXISTING WATER MAIN IS EXPOSED FOR A CONNECTION OR APPURTENANCE INSTALLATION, THE CONTRACTOR SHALL INSTALL ONE SACRIFICIAL ANODE ON THE EXISTING PIPE. IF THE NEW FITTING IS INSTALLED IN-LINE WITH THE EXISTING MAIN, SUCH AS AT A CUT-IN TEE OR VALVE INSERTION, ONE ANODE SHALL BE INSTALLED ON THE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

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PR WATER - GW - GLASTONBURY NORTH

WATER MAIN STRUCTURES			
STRUCTURE	TYPE	STATION	RIM
V-8	Gate Valve in Well, 8 in.	8+48	950.47



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STA. 4+50 - STA. 9+00

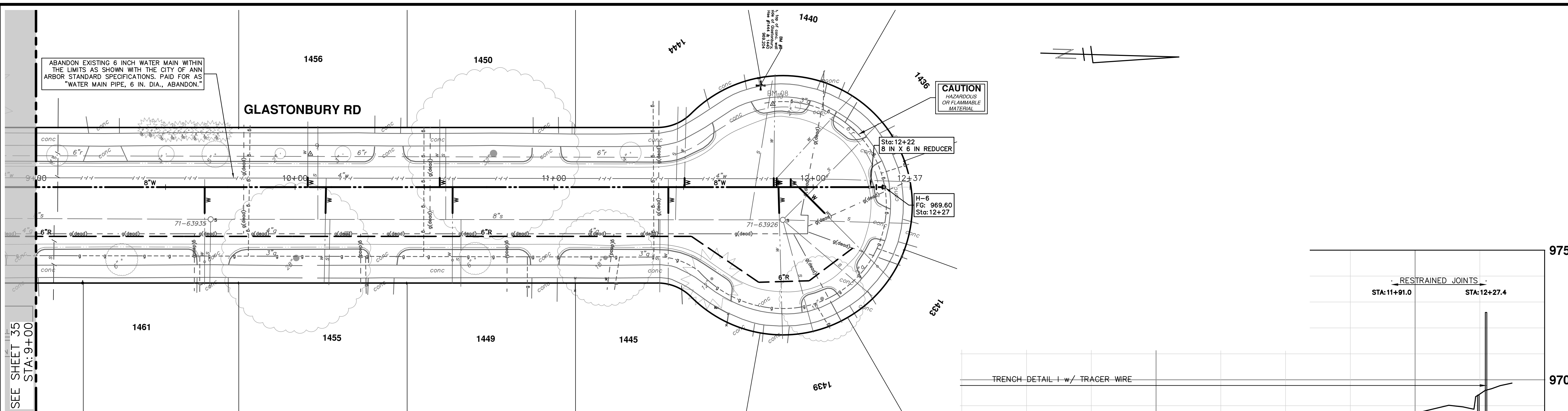
CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
2025 MISCELLANEOUS UTILITY PROJECTS
WATER MAIN - GLASTONBURY (NORTH)

SCALE PLAN: 1" = 20'
PROFILE: 1" = 2'
DRAWING No. 2024006-35

SHEET No. 35 OF 52

937
940
945
950
955

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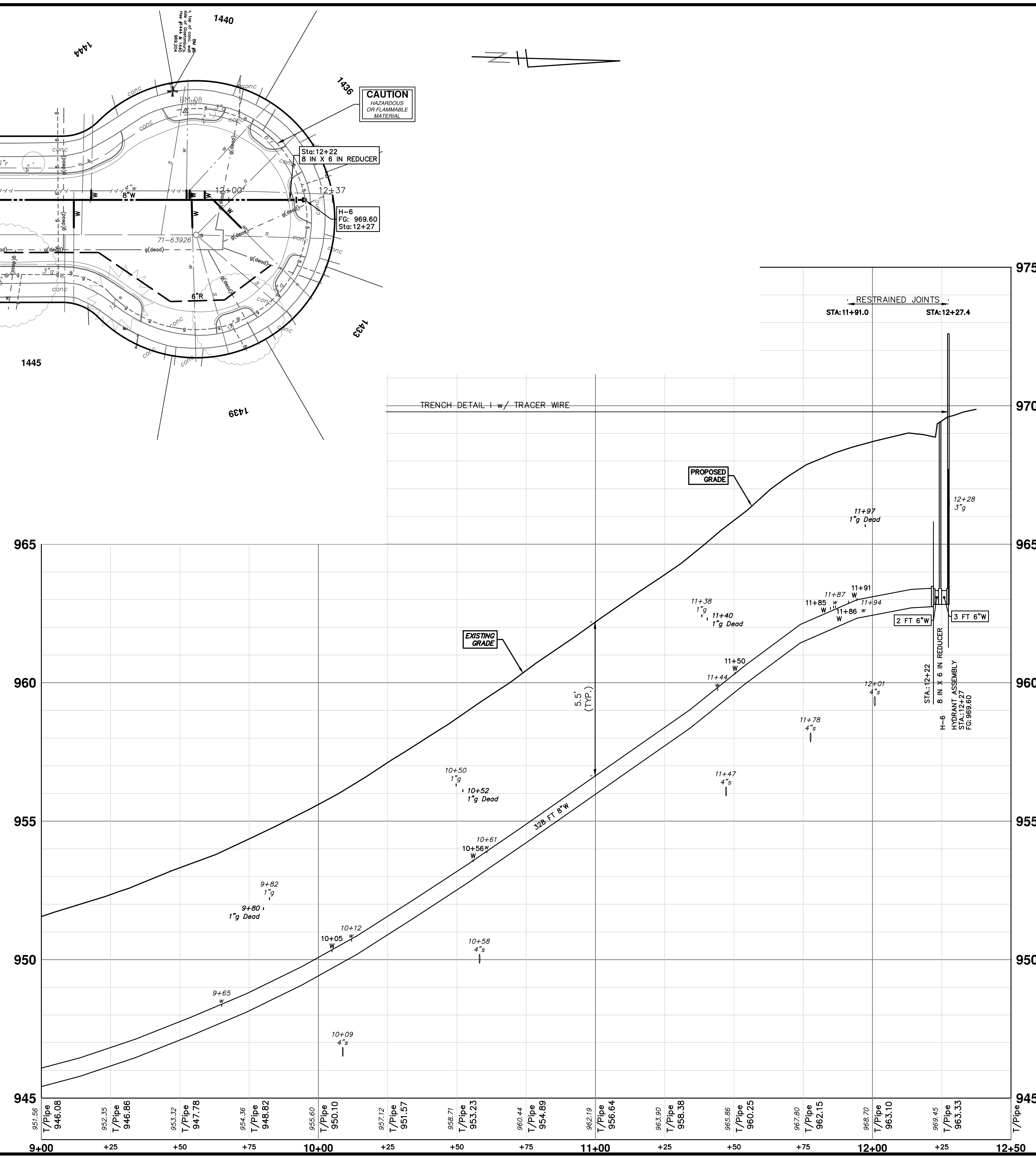
SEE SHEET 35
STA: 9+00

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

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"

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WATER MAIN STRUCTURES			
STRUCTURE	TYPE	STATION	FG
H-6	Hydrant Assembly	12+27	969.60



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2025 MISCELLANEOUS UTILITY PROJECTS

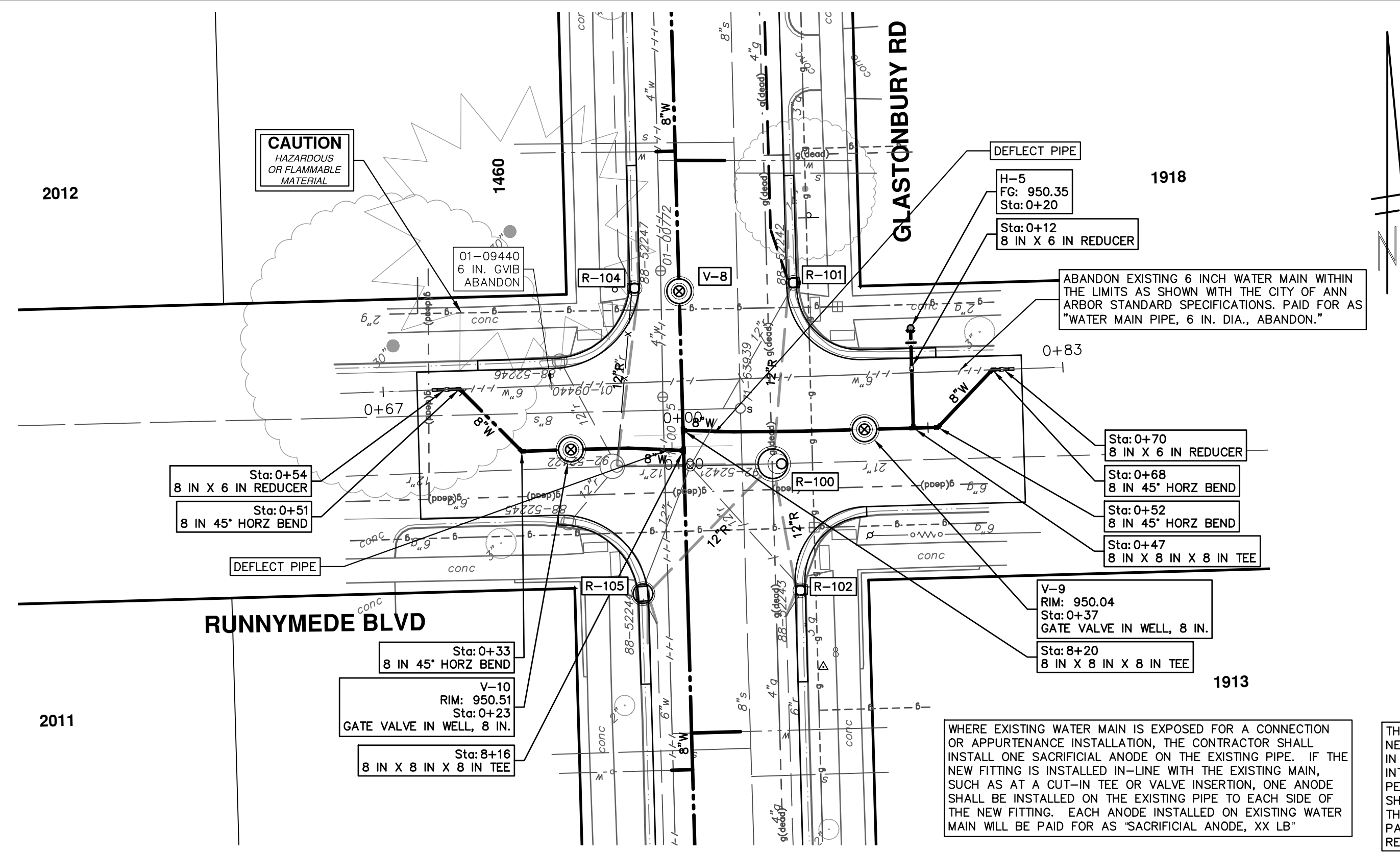
WATER MAIN - GLASTONBURY (NORTH)

STA. 9+00 - STA. 12+27, HYD H-6

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

DRAWING NO. 2024006-36

SHEET No. 36 OF 52



WATER MAIN STRUCTURES			
STRUCTURE	TYPE	STATION	RIM
V-9	Gate Valve in Well, 8 In.	0+37	950.04

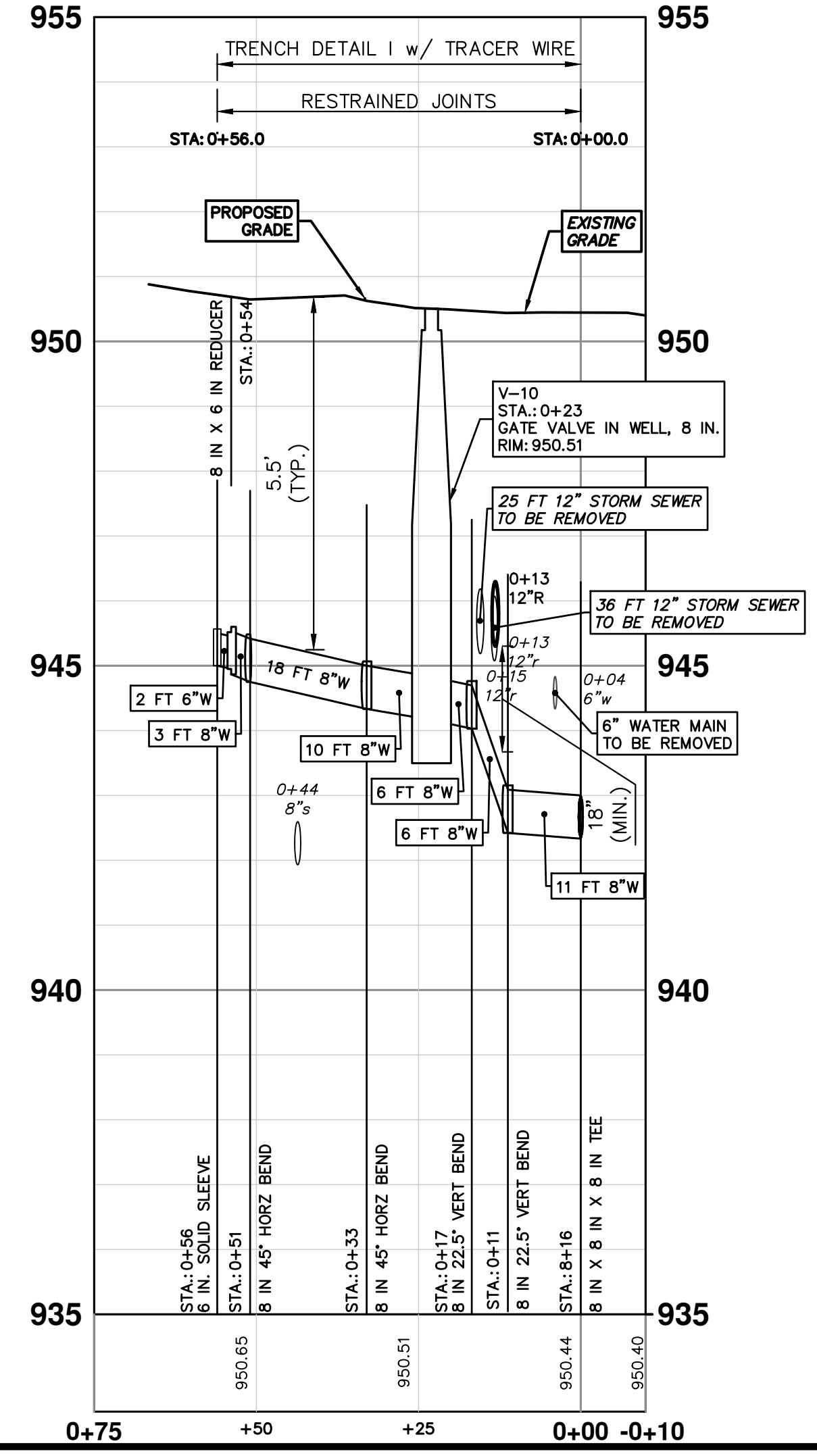
WATER MAIN STRUCTURES			
STRUCTURE	TYPE	STATION	FG
H-5	Hydrant Assembly	0+20	950.35

WATER MAIN STRUCTURES			
STRUCTURE	TYPE	STATION	RIM
V-10	Gate Valve in Well, 8 In.	0+23	950.51

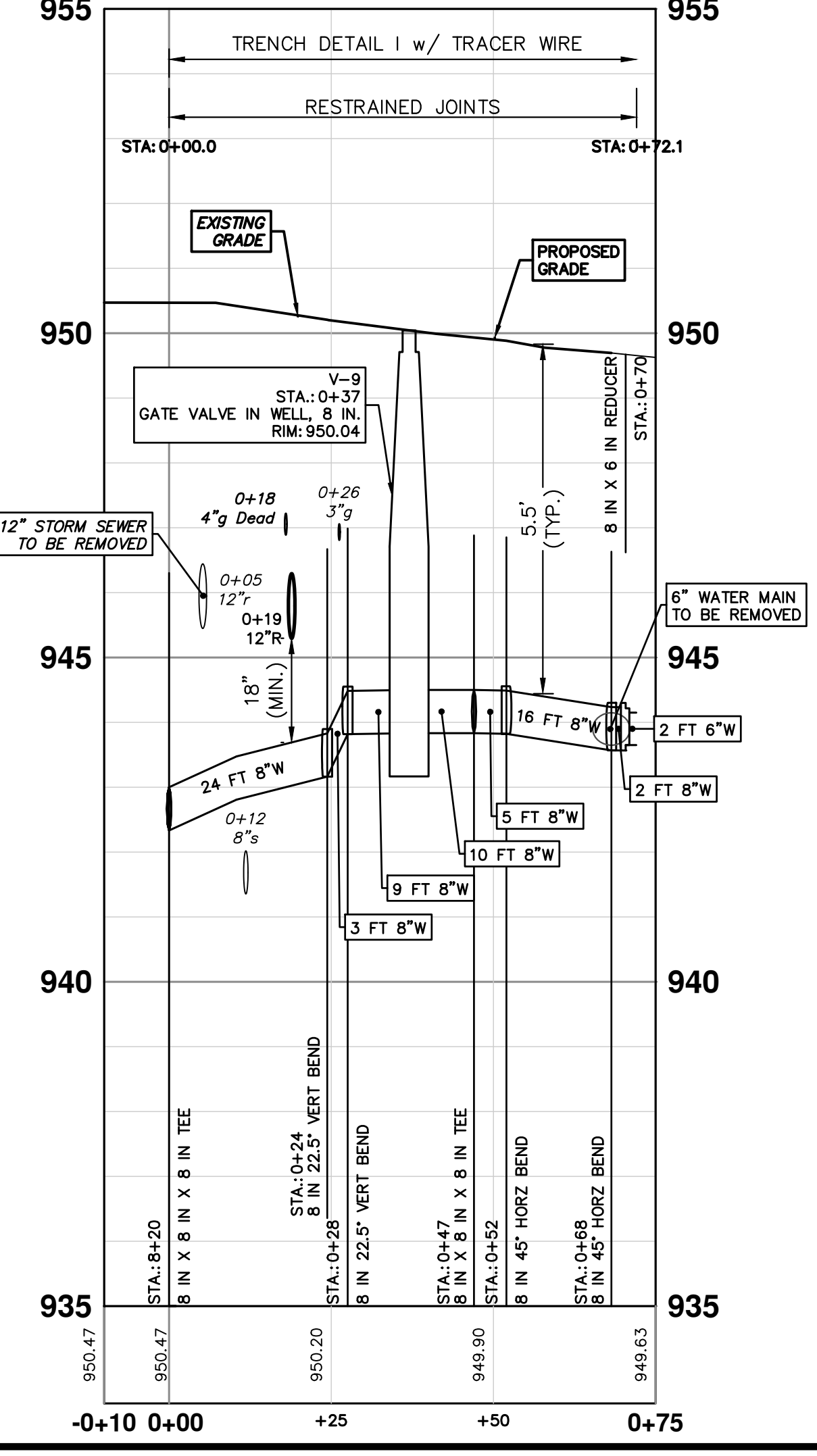
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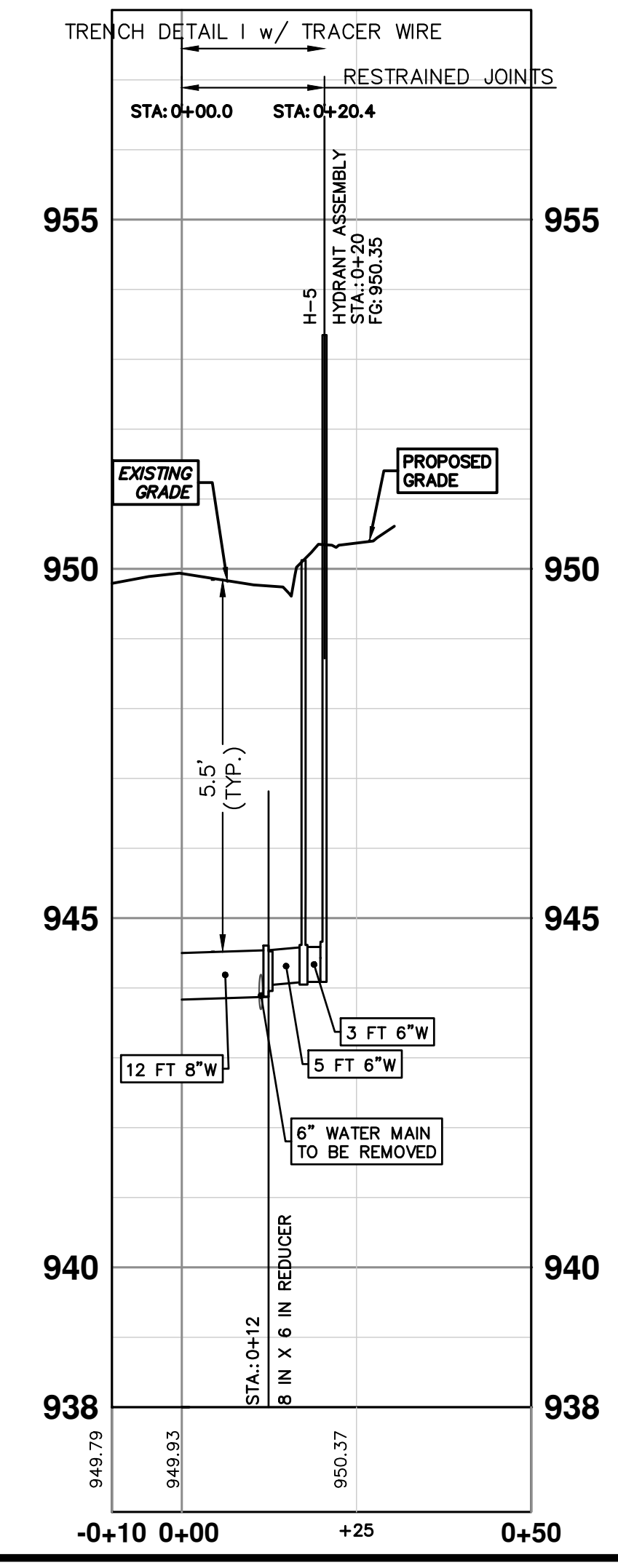
PR WATER GW - RUNNYMEDE WEST




PR WATER GW - RUNNYMEDE EAST




H-5 GW





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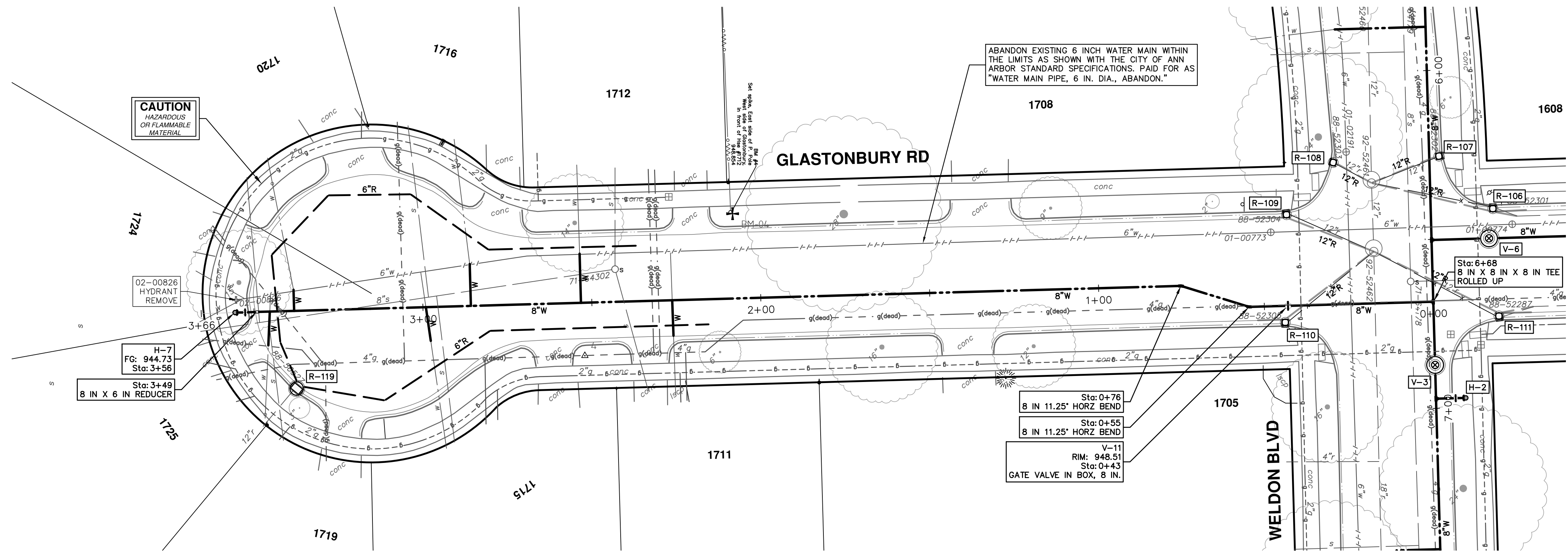
CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
2025 MISCELLANEOUS UTILITY PROJECTS
 WATER MAIN - RUNNYMEDE BLVD
 STA. 0+00 - STA. 0+56(W), STA. 0+00 - STA. 0+72(E), HYD H-5

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

DRAWING NO.
2024006-37

SHEET No.
37 OF 52

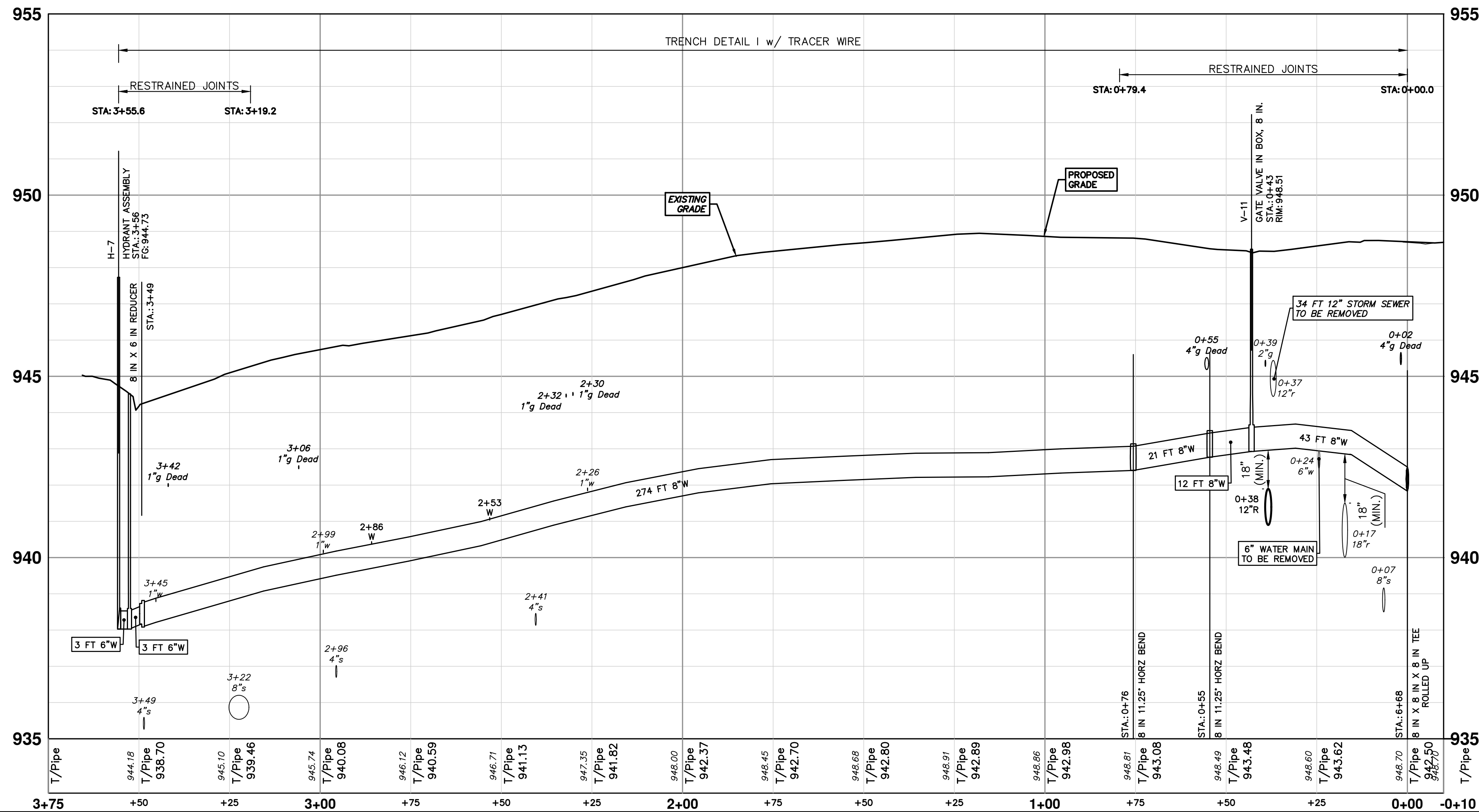
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PR WATER - GLASTONBURY SOUTH



WATER MAIN STRUCTURES			
STRUCTURE	TYPE	STATION	RIM
V-11	Gate Valve in Box, 8 In.	0+43	948.51

WATER MAIN STRUCTURES			
STRUCTURE	TYPE	STATION	FG
H-7	Hydrant Assembly	3+56	944.73

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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

2025 MISCELLANEOUS UTILITY PROJECTS

WATER MAIN - GLASTONBURY (SOUTH)

STA. 0+00 - STA. 3+56, HYD H-7

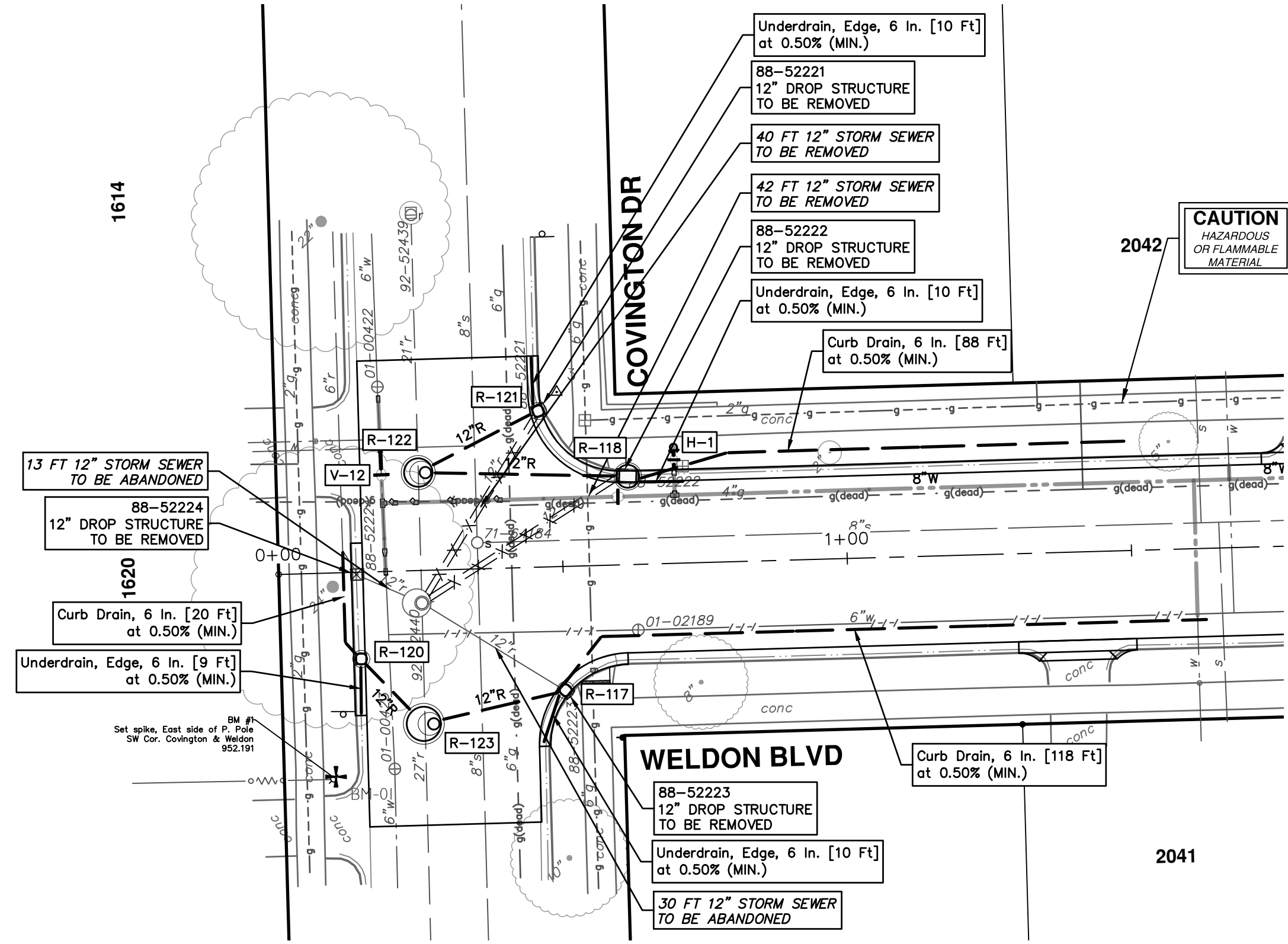
SCALE PLAN: 1" = 20'
PROFILE: 1" = 2'

DRAWING No.
2024006-38

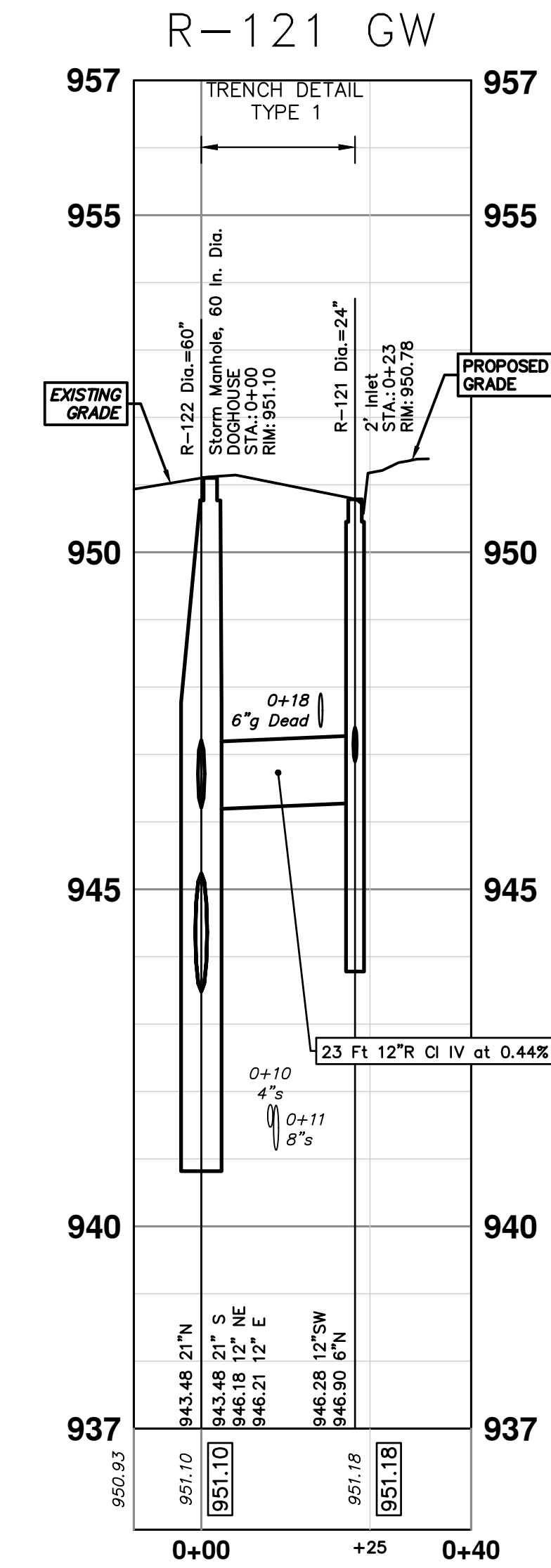
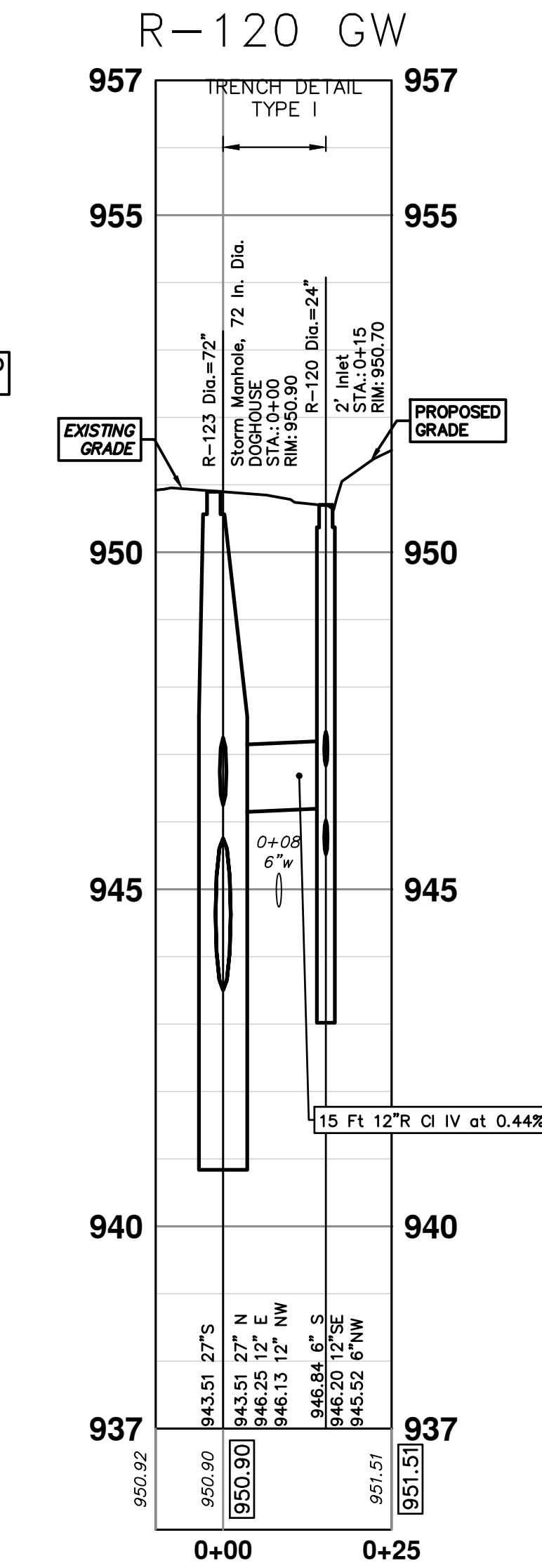
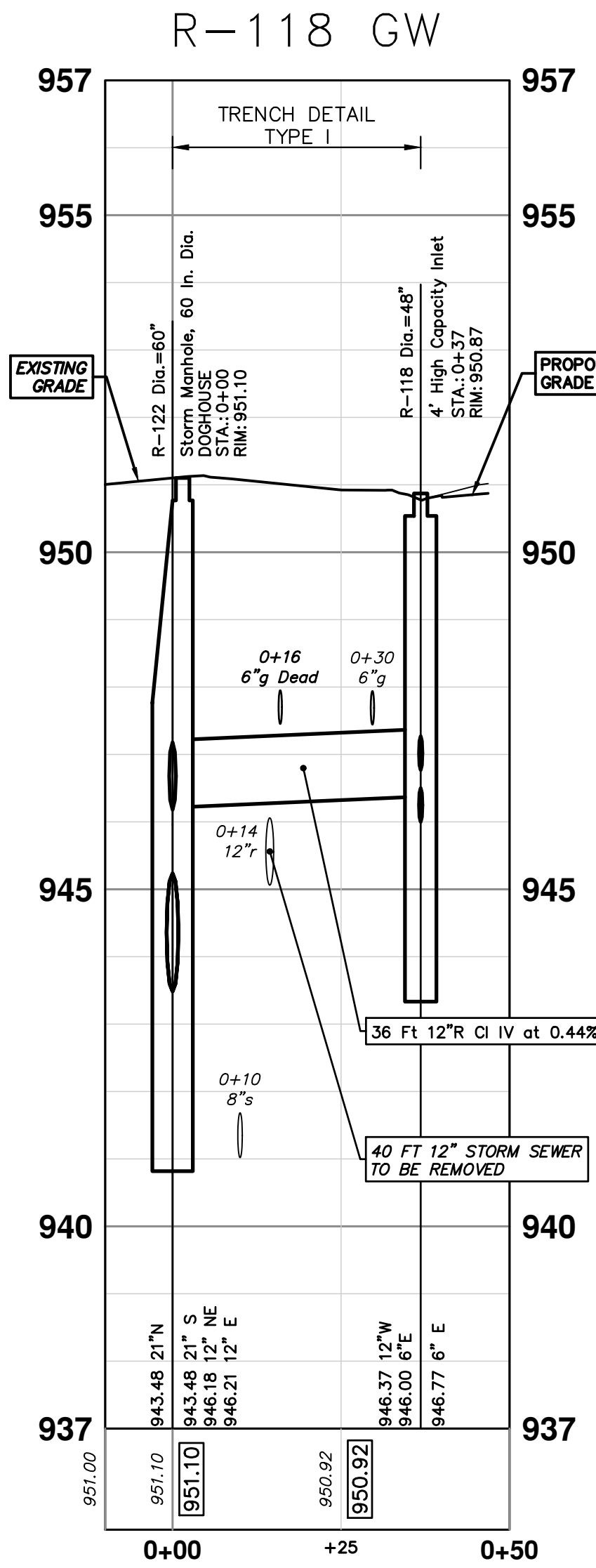
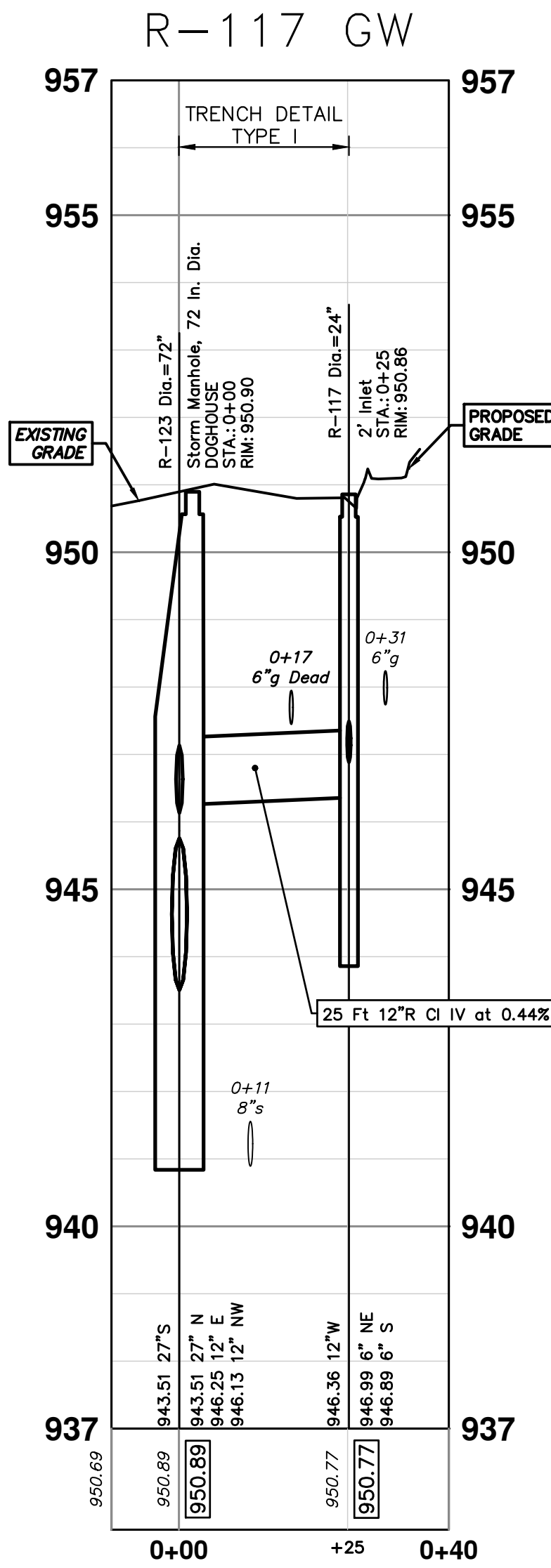
SHEET No.
38 OF 52

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ANN ARBOR 734.794.4410
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STRUCTURE	DEPTH (Feet)	REMOVE
88-52223	5.51	12" Drop Structure TO BE REMOVED
88-52221	5.10	12" Drop Structure TO BE REMOVED
88-52222	5.61	12" Drop Structure TO BE REMOVED
88-52224	5.65	12" Drop Structure TO BE REMOVED



STRUCTURE	UTILITY STATION	TYPE	RIM	INVERTS	DEPTH (Feet)	SUMP
R-117	0+25	2' Inlet	950.86	6" NE 946.99 6" S 946.89 12" W 946.36	6.50	2'
R-118	0+37	4' High Capacity Inlet	950.87	6" E 946.77 12" W 946.37 6" E 946.00	6.87	2'
R-120	0+15	2' Inlet	950.70	6" S 946.84 12" SE 946.20 6" NW 945.52	7.18	2'
R-121	0+23	2' Inlet	950.78	12" SW 946.28 6" N 946.90	6.50	2'
R-122	0+00	Storm Manhole, 60 In. Dia. DOGHOUSE	951.10	21" S 943.48 12" SE 946.18 12" E 946.21 21" N 943.48	9.62	2'
R-123	0+00	Storm Manhole, 72 In. Dia. DOGHOUSE	950.90	27" N 943.51 12" NE 946.25 12" NW 946.13 27" S 943.51	9.39	2'



CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

2025 MISCELLANEOUS UTILITY PROJECTS

STORM SEWER - GLASTONBURY WELDON

R-117, R-118, R-120, R-121

SHEET No. 39 OF 52

SCALE PLAN: 1" = 20'

PROFILE: 1" = 2'

DRAWING No. 2024006-39

REV. 01 BILL SET 12/12/24 DATE 12/12/24 DRAWN AZD CHECKED TA

DESCRIPTION

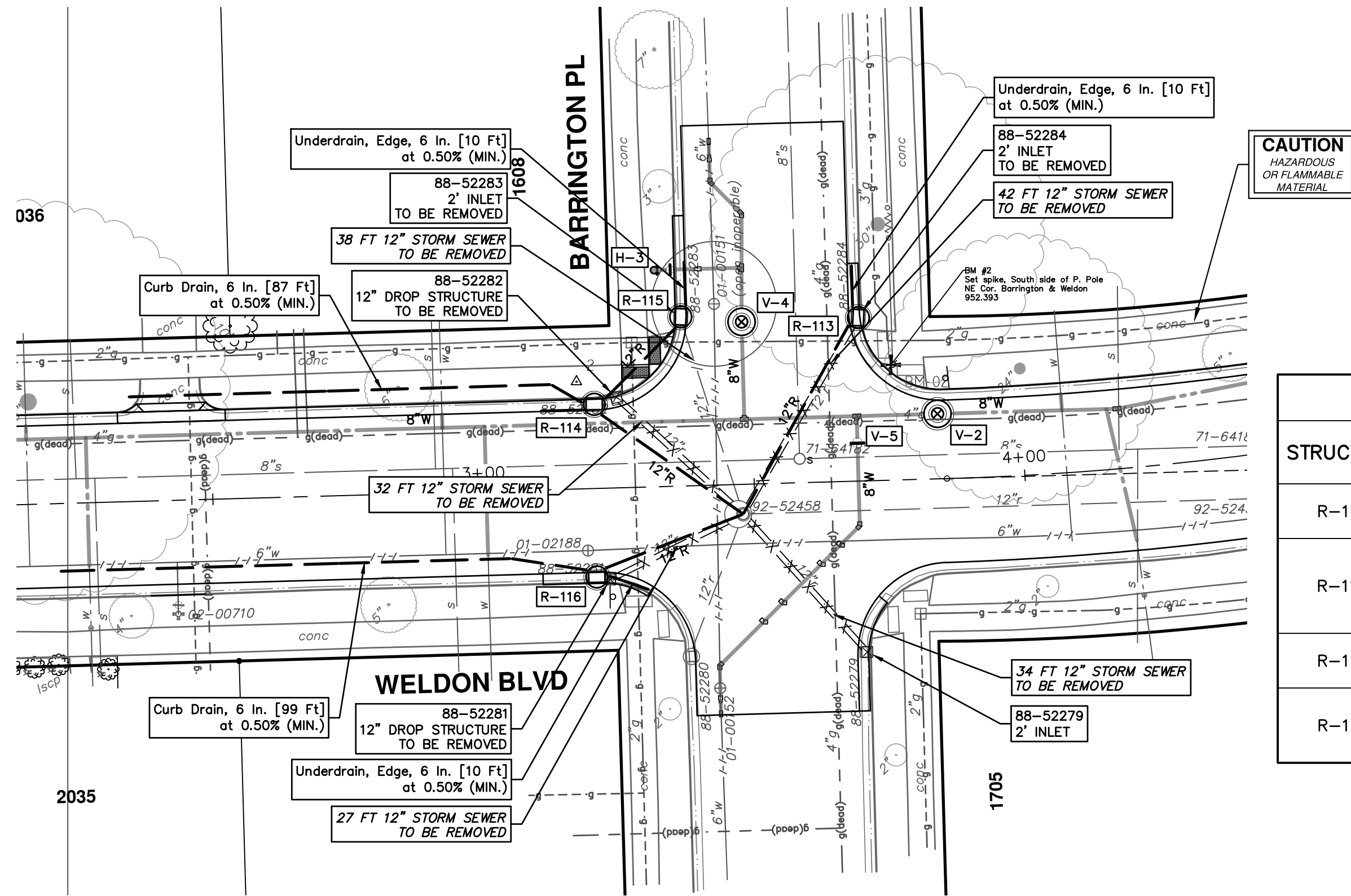
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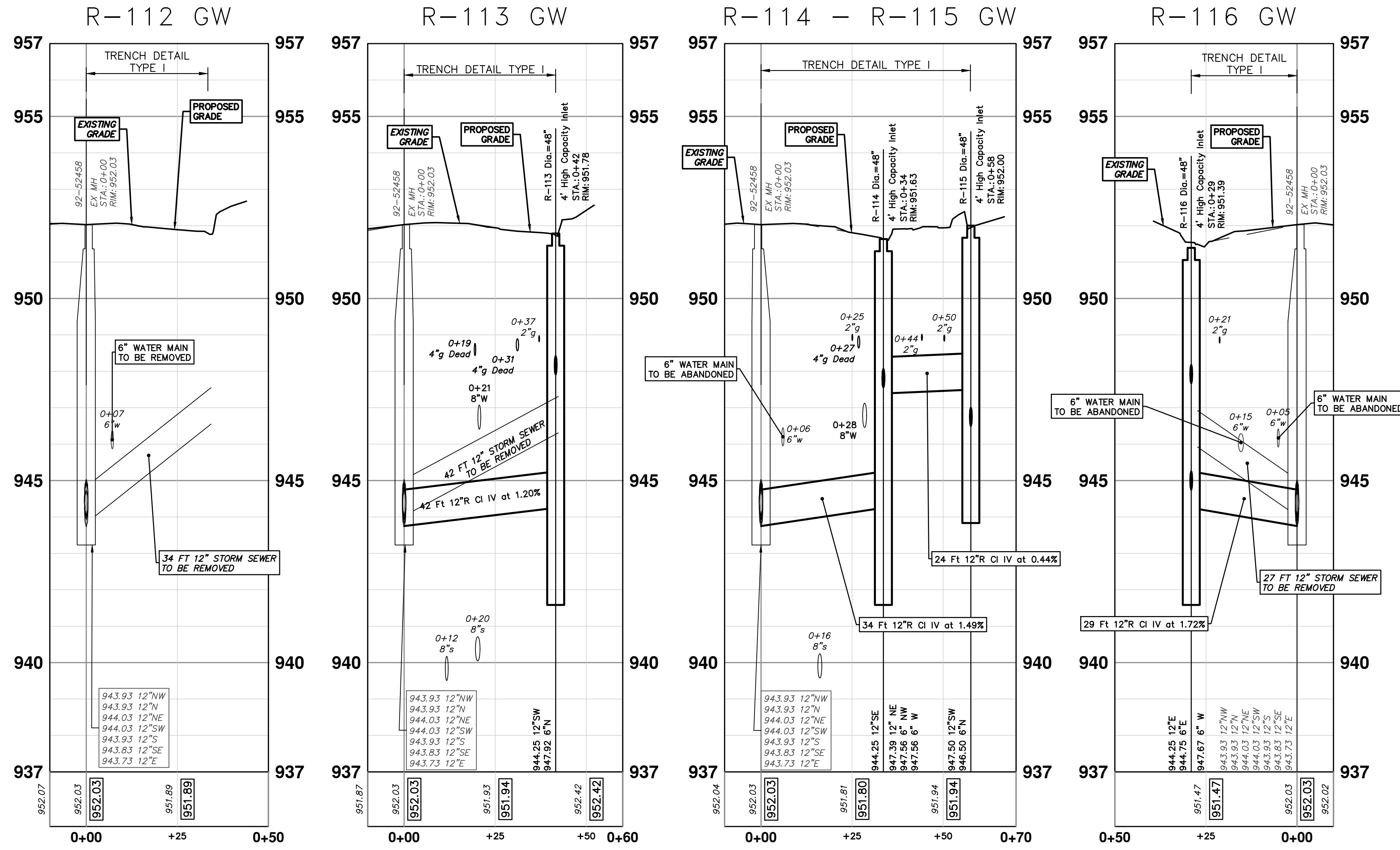
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STRUCTURE	DEPTH (Feet)	REMOVE
88-52283	5.91	2' Inlet TO BE REMOVED
88-52281	5.31	12" Drop Structure TO BE REMOVED
88-52282	5.01	12" Drop Structure TO BE REMOVED
88-52284	5.40	2' Inlet TO BE REMOVED
88-52279	5.20	2' Inlet



STRUCTURE	UTILITY STATION	TYPE	RIM	INVERTS	DEPTH (Feet)	SUMP
R-113	0+42	4' High Capacity Inlet	951.78	12" SW 944.25 6" N 947.92	9.53	2'
R-114	0+34	4' High Capacity Inlet	951.63	12" NE 947.39 6" NW 947.56 6" W 947.56 12" SE 944.25	9.38	2'
R-115	0+58	4' High Capacity Inlet	952.00	12" SW 947.50 6" N 946.50	7.50	2'
R-116	0+29	4' High Capacity Inlet	951.39	6" W 947.67 12" E 944.25 6" E 944.75	9.14	2'



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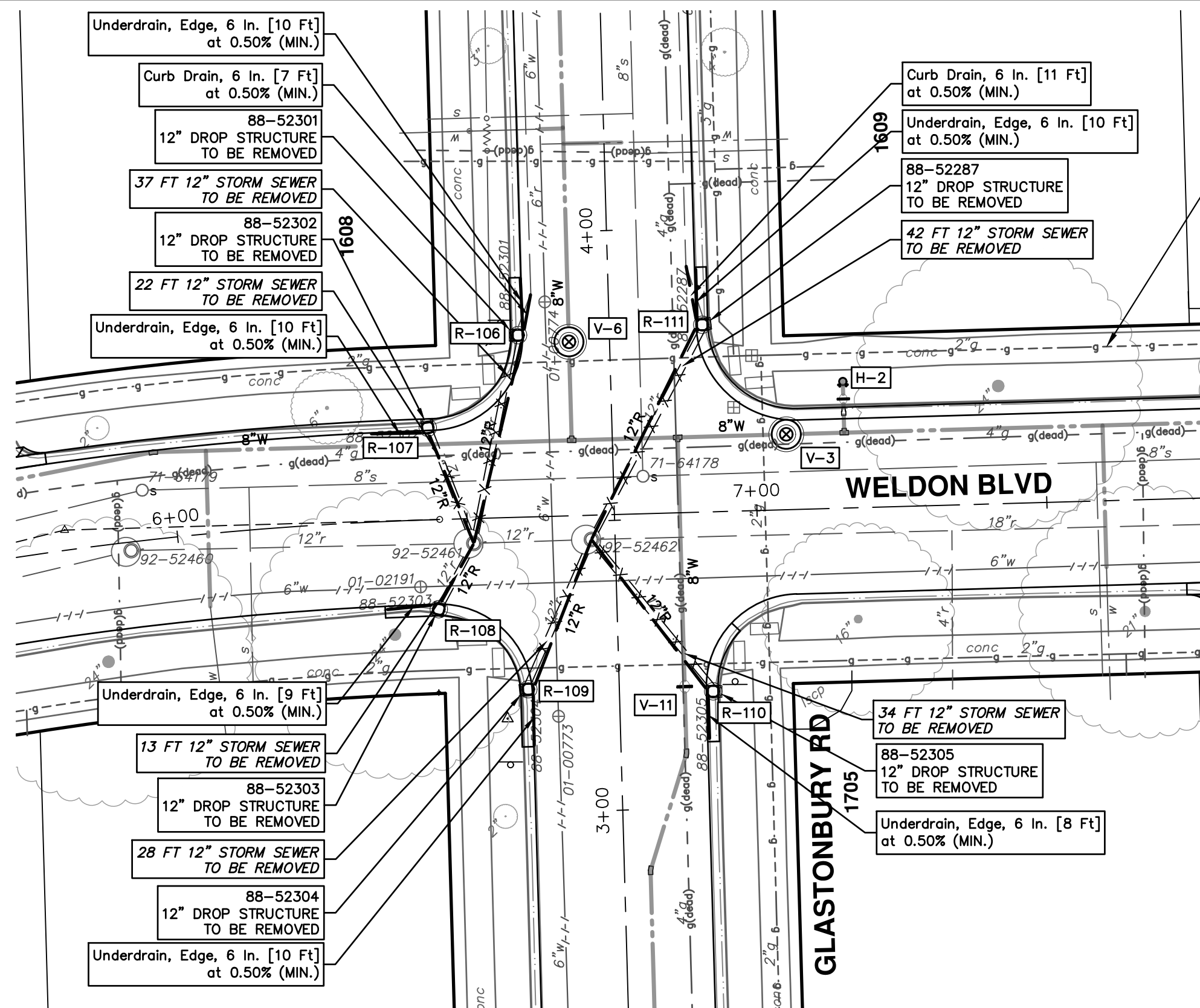


CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
2025 MISCELLANEOUS UTILITY PROJECTS
STORM SEWER - GLASTONBURY WELDON
R-112 - R-116

SHEET No. 40 OF 52
SCALE PLAN: 1" = 20'
PROFILE: 1" = 2'
DRAWING No. 2024006-40

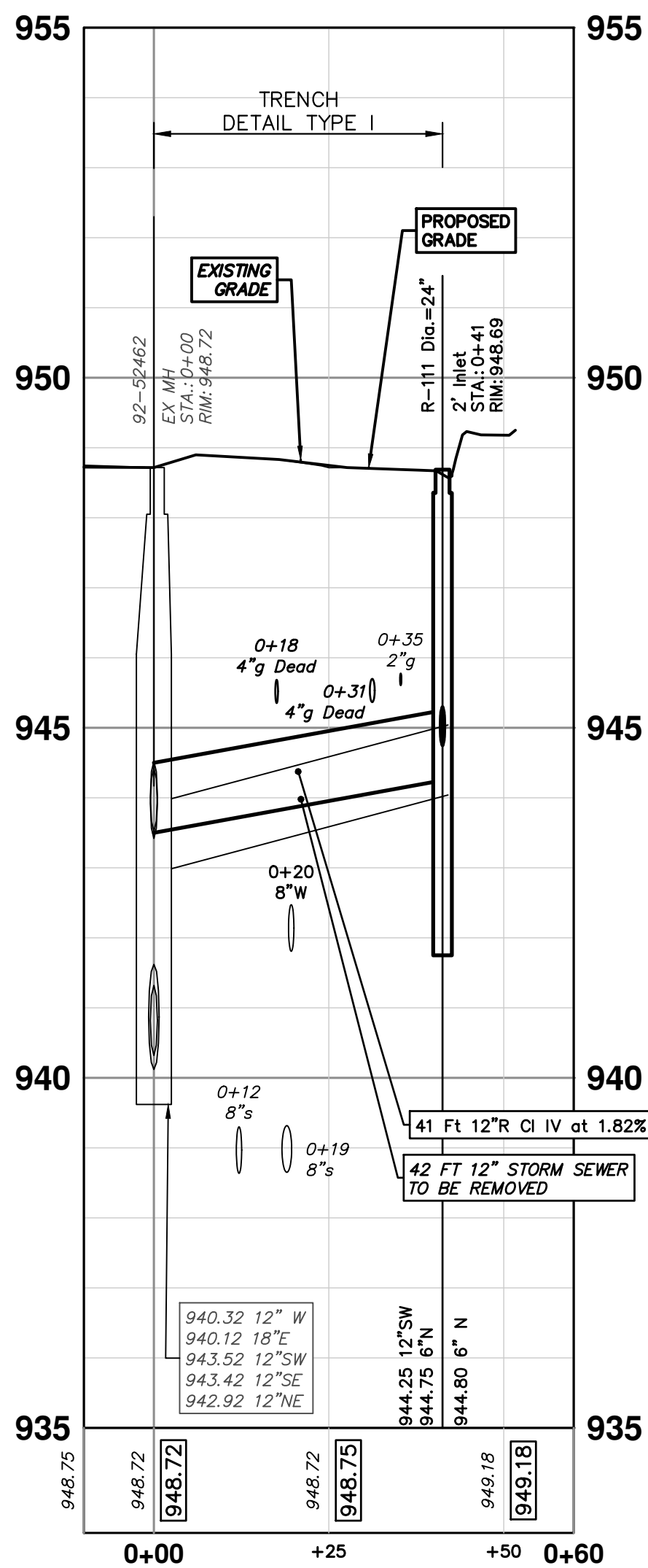
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EXISTING STORM SEWER STRUCTURE REMOVAL TABLE		
STRUCTURE	DEPTH (Feet)	REMOVE
88-52305	3.32	12" Drop Structure TO BE REMOVED
88-52304	4.30	12" Drop Structure TO BE REMOVED
88-52303	4.51	12" Drop Structure TO BE REMOVED
88-52302	5.00	12" Drop Structure TO BE REMOVED
88-52301	4.90	12" Drop Structure TO BE REMOVED
88-52287	4.55	12" Drop Structure TO BE REMOVED

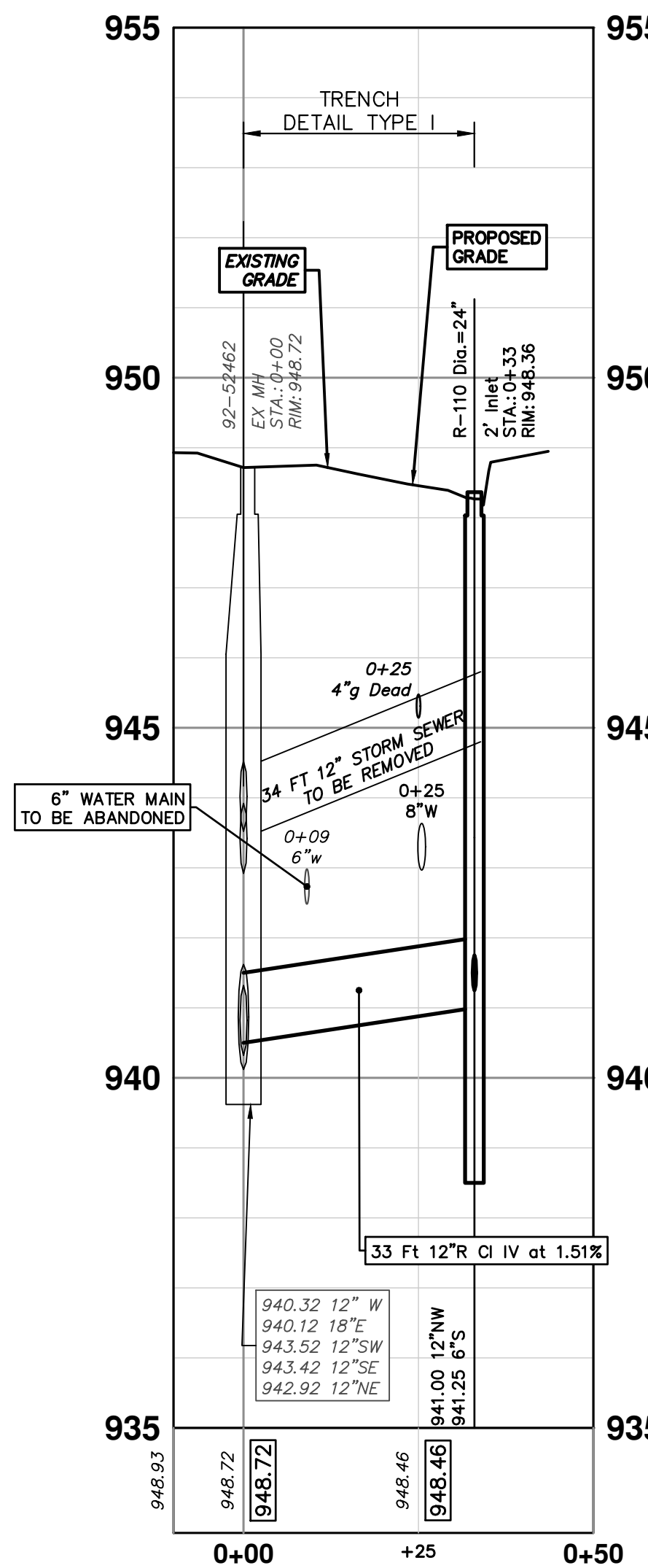


STORM SEWER STRUCTURE TABLE						
STRUCTURE	UTILITY STATION	TYPE	RIM	INVERTS	DEPTH (Feet)	SUMP
R-106	0+37	2' Inlet	948.73	6" N 944.82 12" S 944.00 6" N 944.25	6.73	2'
R-107	0+21	2' Inlet	948.57	12" S 944.00 6" W 944.25	6.57	2'
R-108	0+12	2' Inlet	948.57	12" NE 944.00 6" W 944.25	6.57	2'
R-109	0+28	2' Inlet	948.36	12" N 944.00 6" S 944.25	6.36	2'
R-110	0+33	2' Inlet	948.36	12" NW 941.00 6" S 941.25	9.36	2'
R-111	0+41	2' Inlet	948.69	6" N 944.80 12" SW 944.25 6" N 944.75	6.44	2'

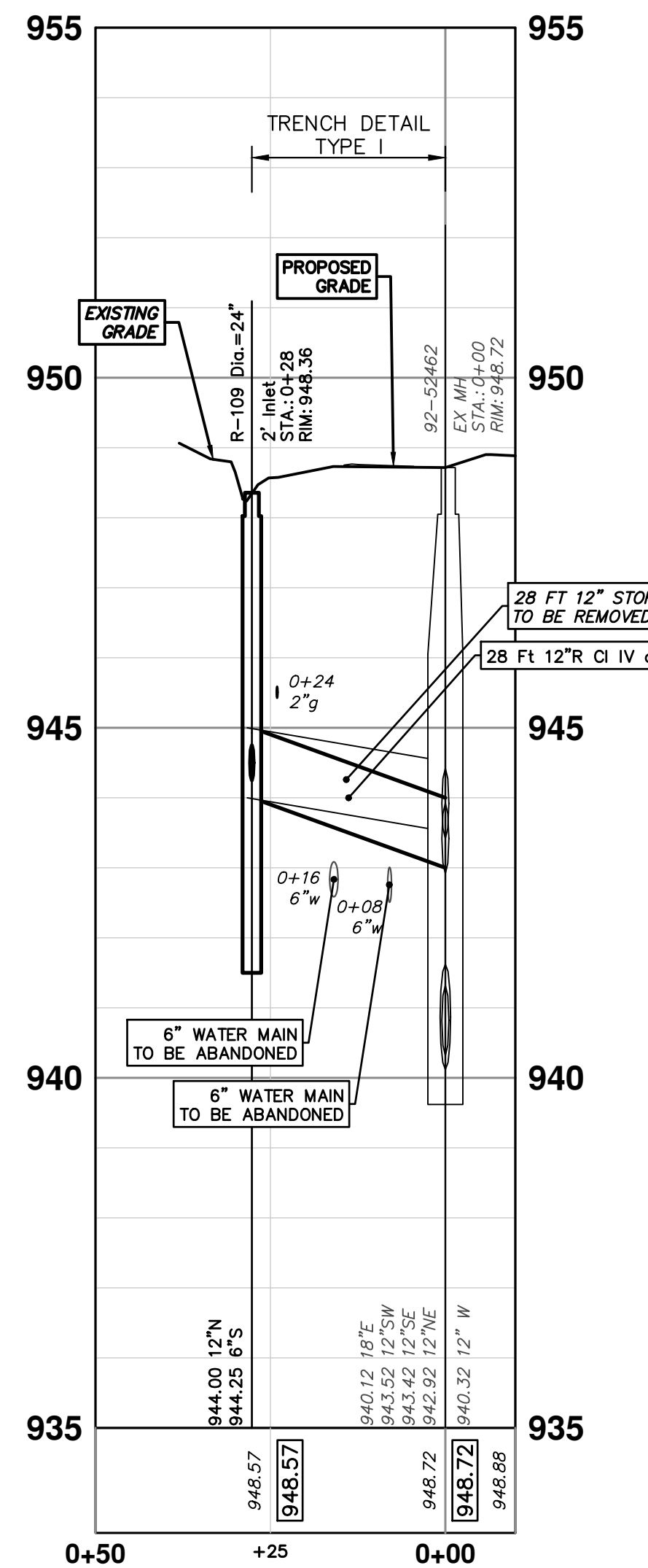
R-111 GW



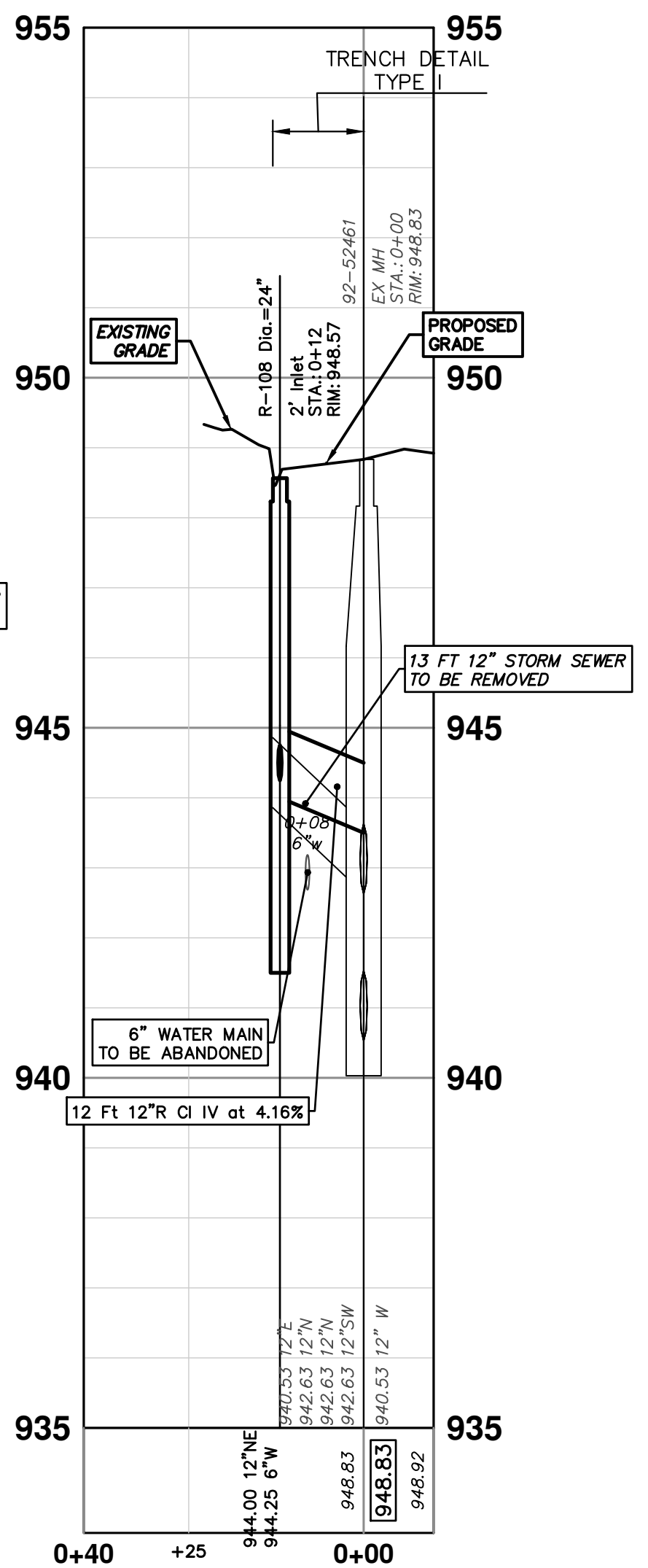
R-110 GW



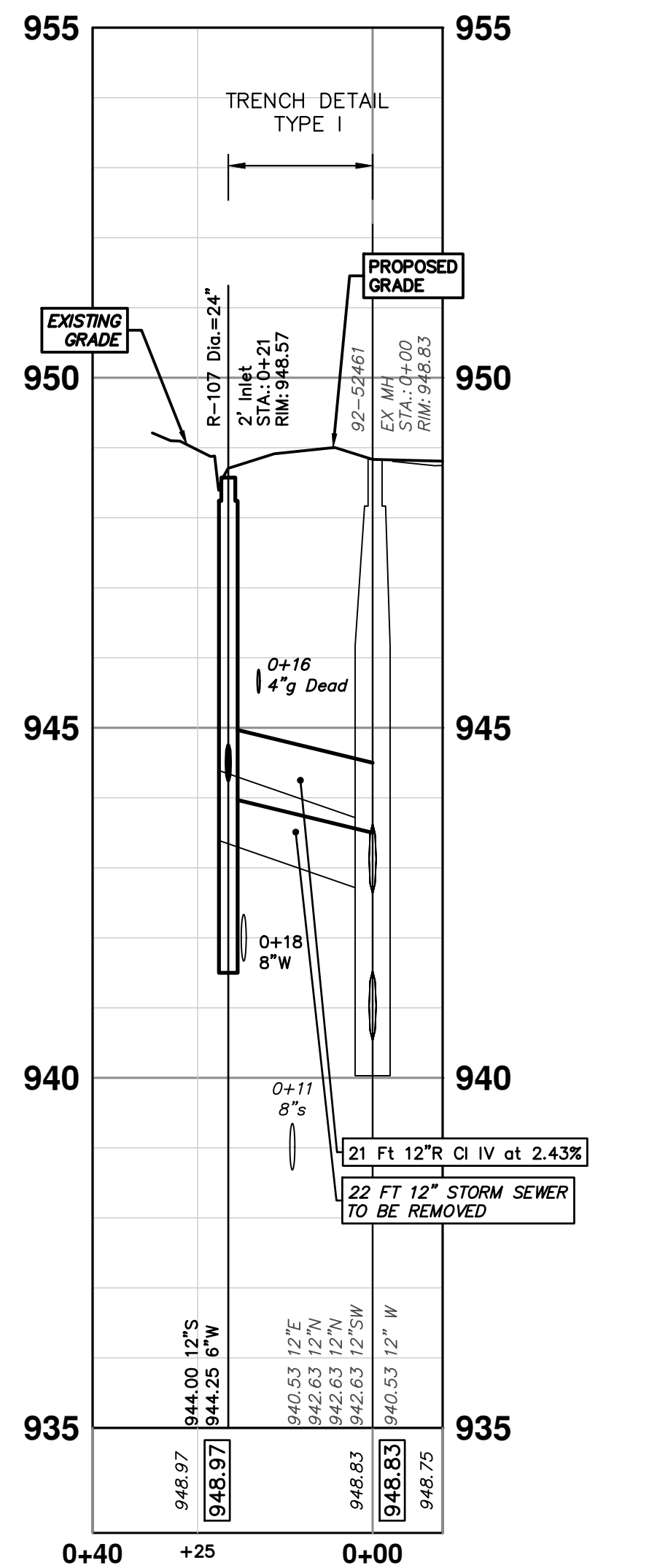
R-109 GW



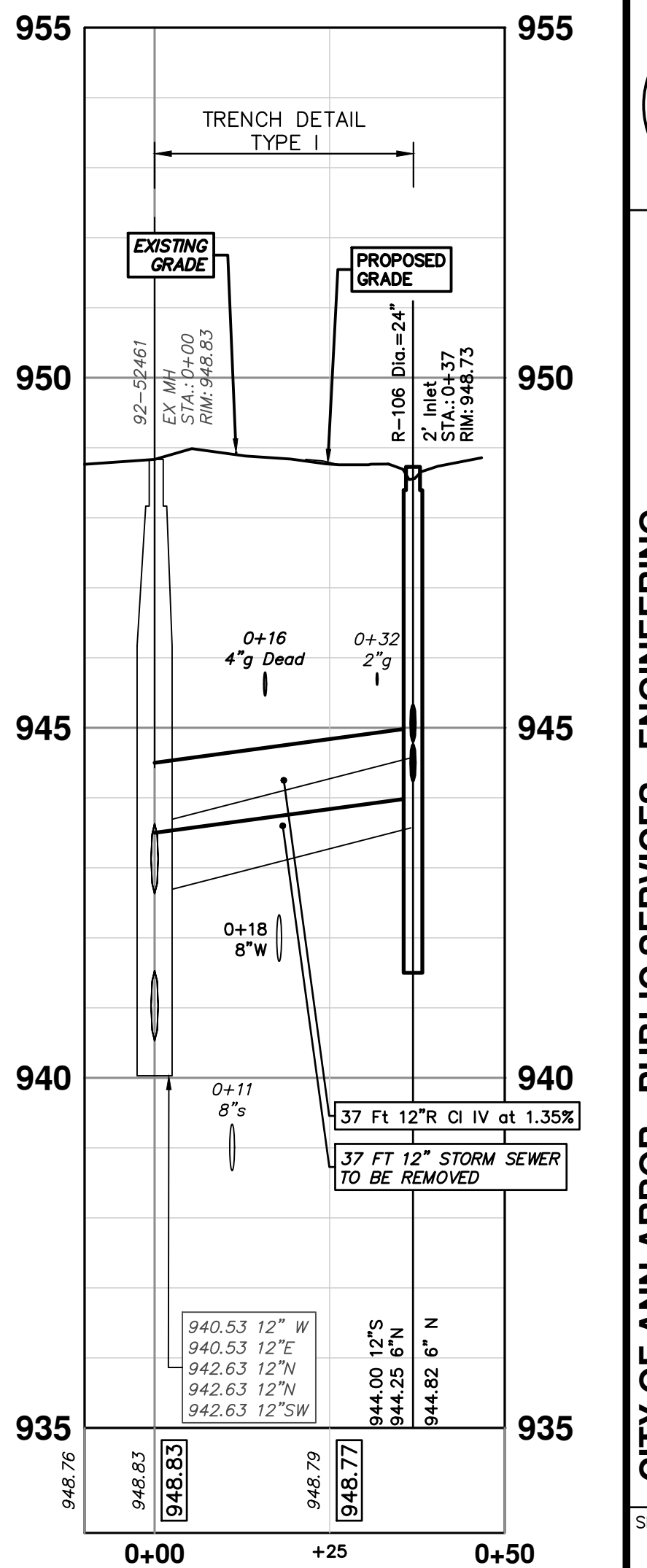
R-108 GW



R-107 GW



R-106 GW

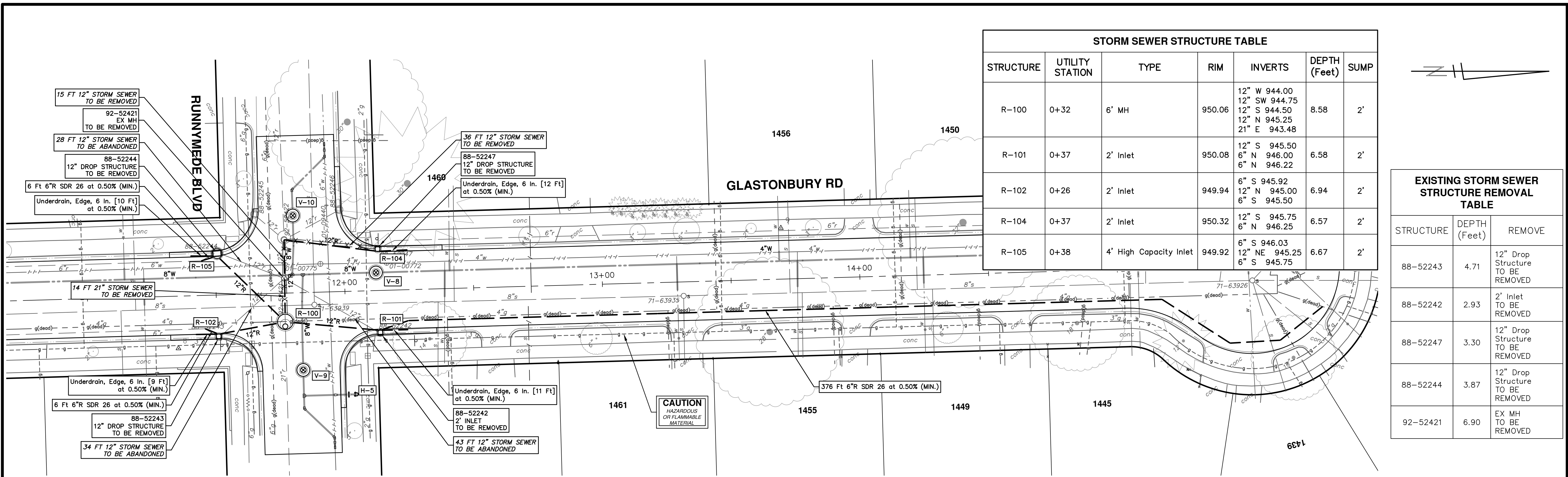


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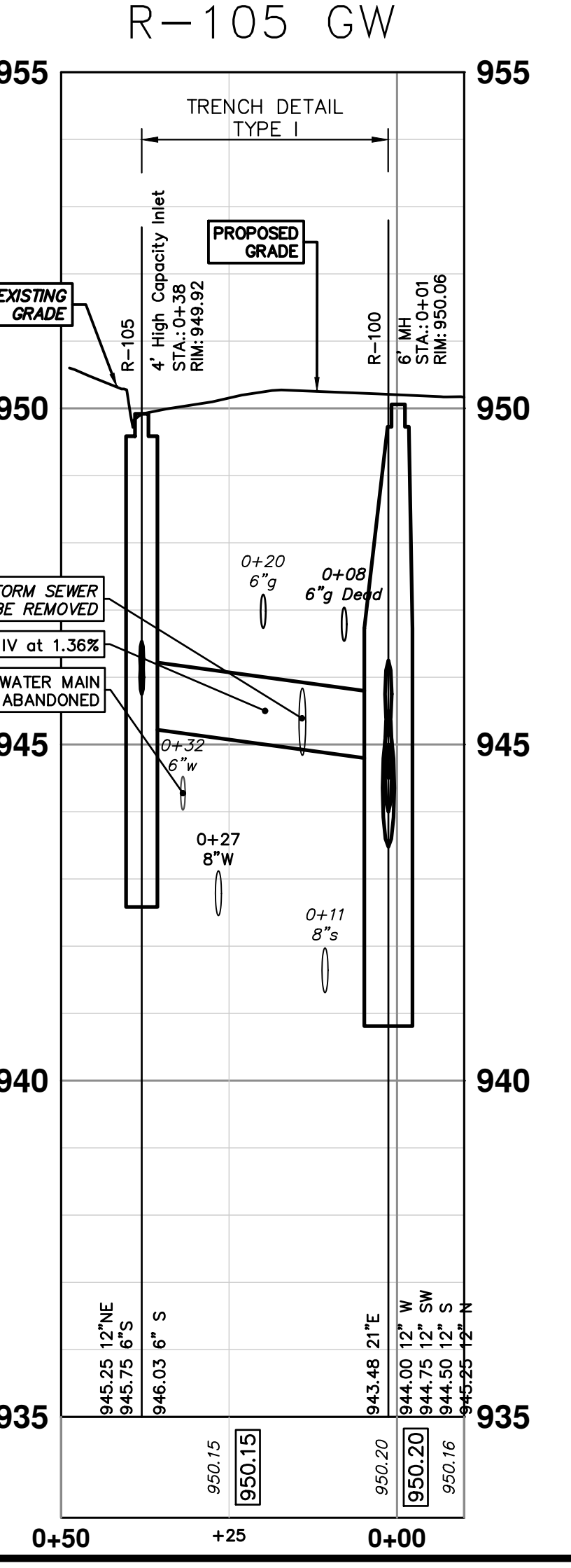
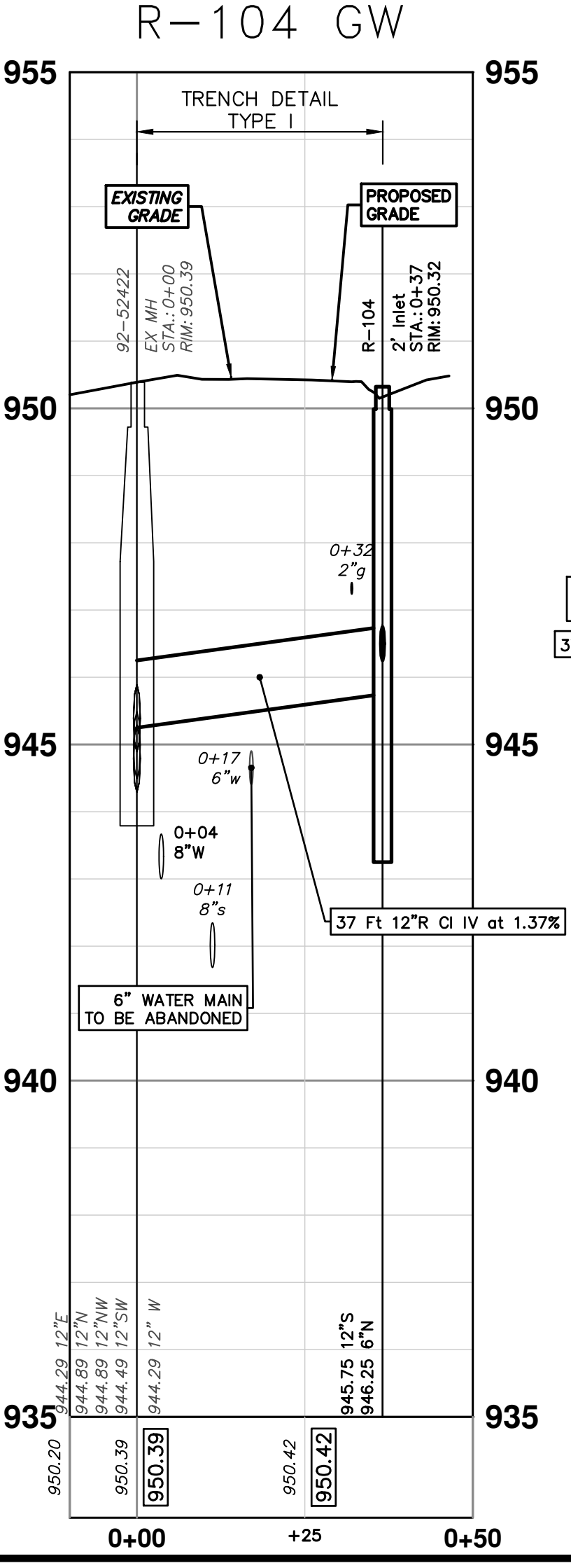
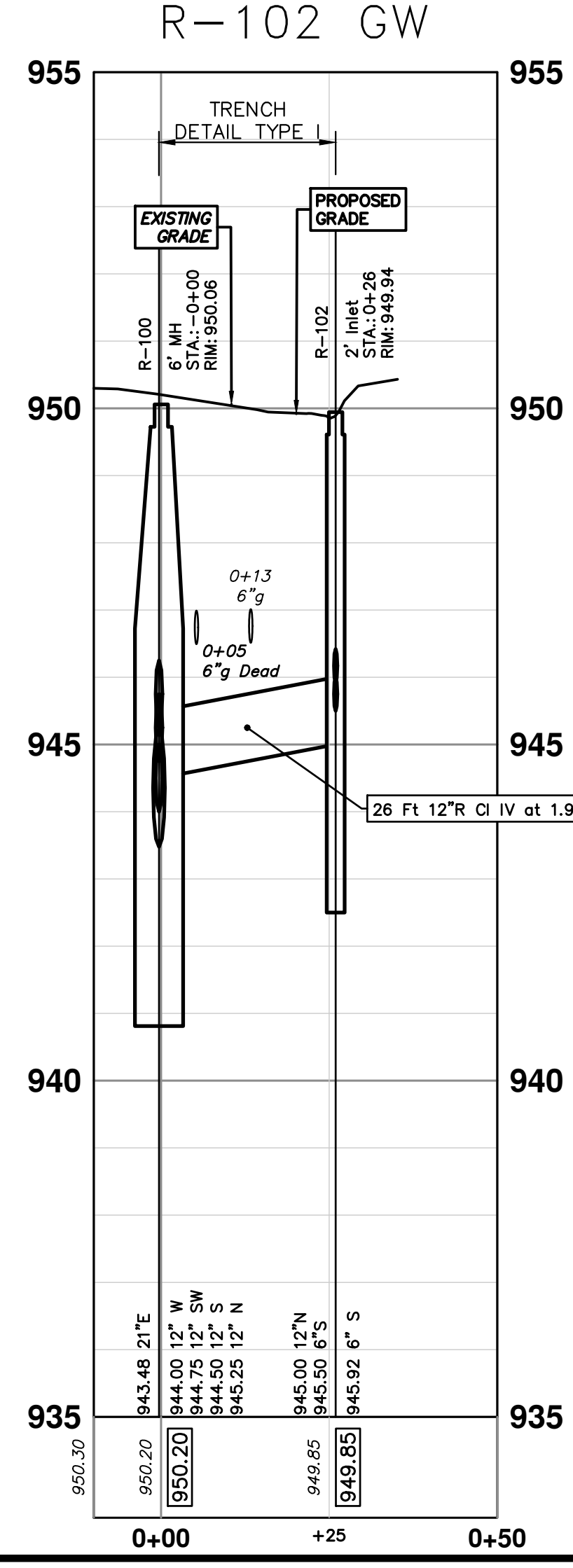
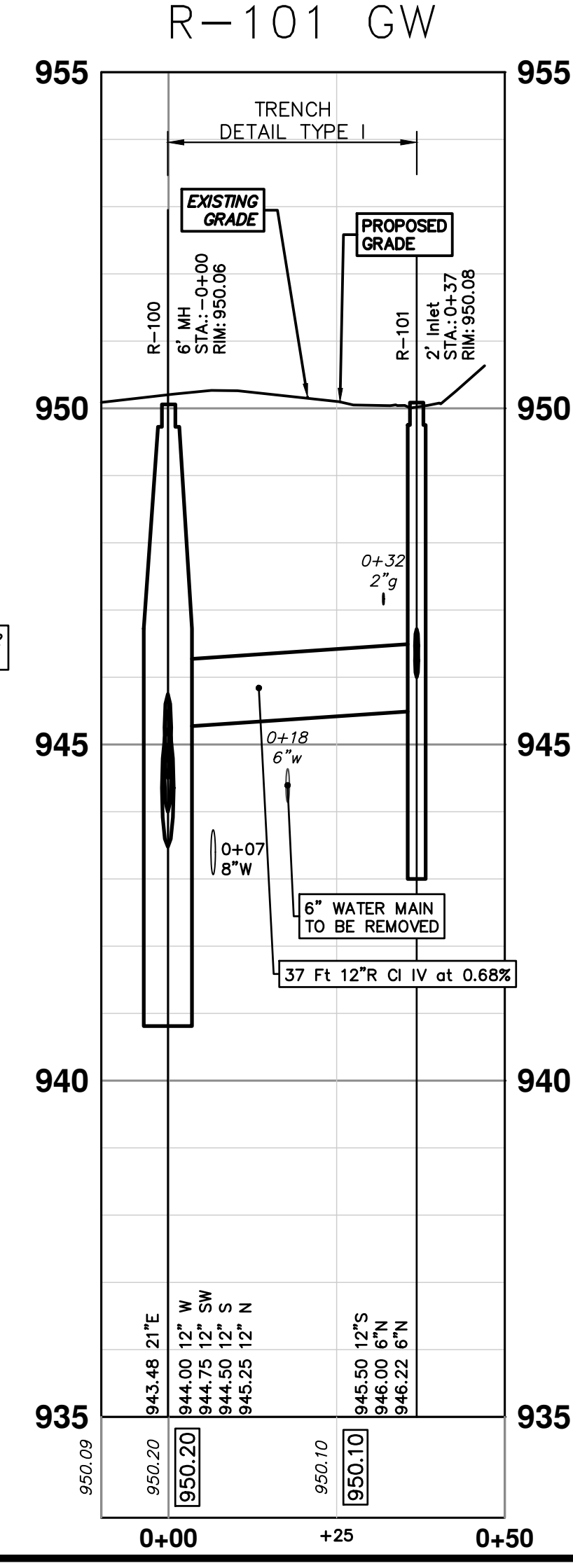
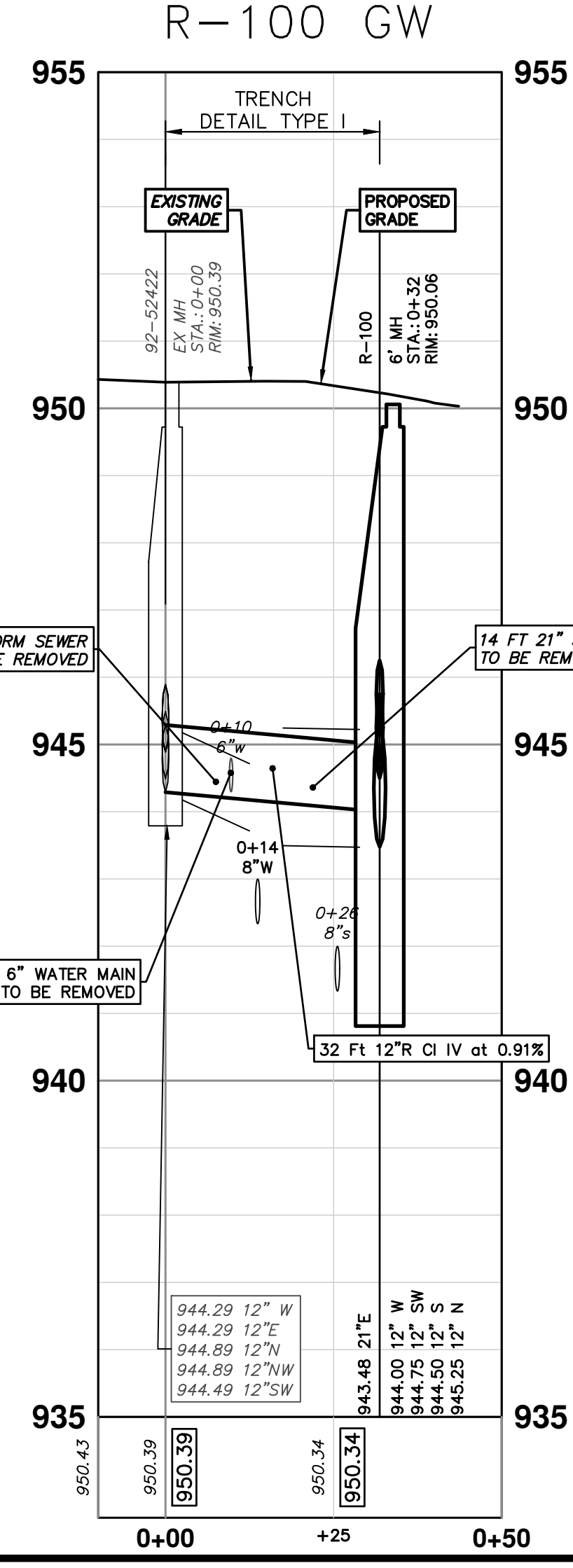
CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
2025 MISCELLANEOUS UTILITY PROJECTS
STORM SEWER - GLASTONBURY WELDON
R-106 - R-111


SCALE PLAN: 1" = 20'
PROFILE: 1" = 2'
DRAWING NO: 2024006-41
SHEET NO: 41 OF 52



STORM SEWER STRUCTURE TABLE						
STRUCTURE	UTILITY STATION	TYPE	RIM	INVERTS	DEPTH (Feet)	SUMP
R-100	0+32	6' MH	950.06	12" W 944.00 12" SW 944.75 12" S 944.50 12" N 945.25 21" E 943.48	8.58	2'
R-101	0+37	2' Inlet	950.08	12" S 945.50 6" N 946.00 6" N 946.22	6.58	2'
R-102	0+26	2' Inlet	949.94	6" S 945.92 12" N 945.00 6" S 945.50	6.94	2'
R-104	0+37	2' Inlet	950.32	12" S 945.75 6" N 946.25	6.57	2'
R-105	0+38	4' High Capacity Inlet	949.92	6" S 946.03 12" NE 945.25 6" S 945.75	6.67	2'

EXISTING STORM SEWER STRUCTURE REMOVAL TABLE		
STRUCTURE	DEPTH (Feet)	REMOVE
88-52243	4.71	12" Drop Structure TO BE REMOVED
88-52242	2.93	2' Inlet TO BE REMOVED
88-52247	3.30	12" Drop Structure TO BE REMOVED
88-52244	3.87	12" Drop Structure TO BE REMOVED
92-52421	6.90	EX MH TO BE REMOVED





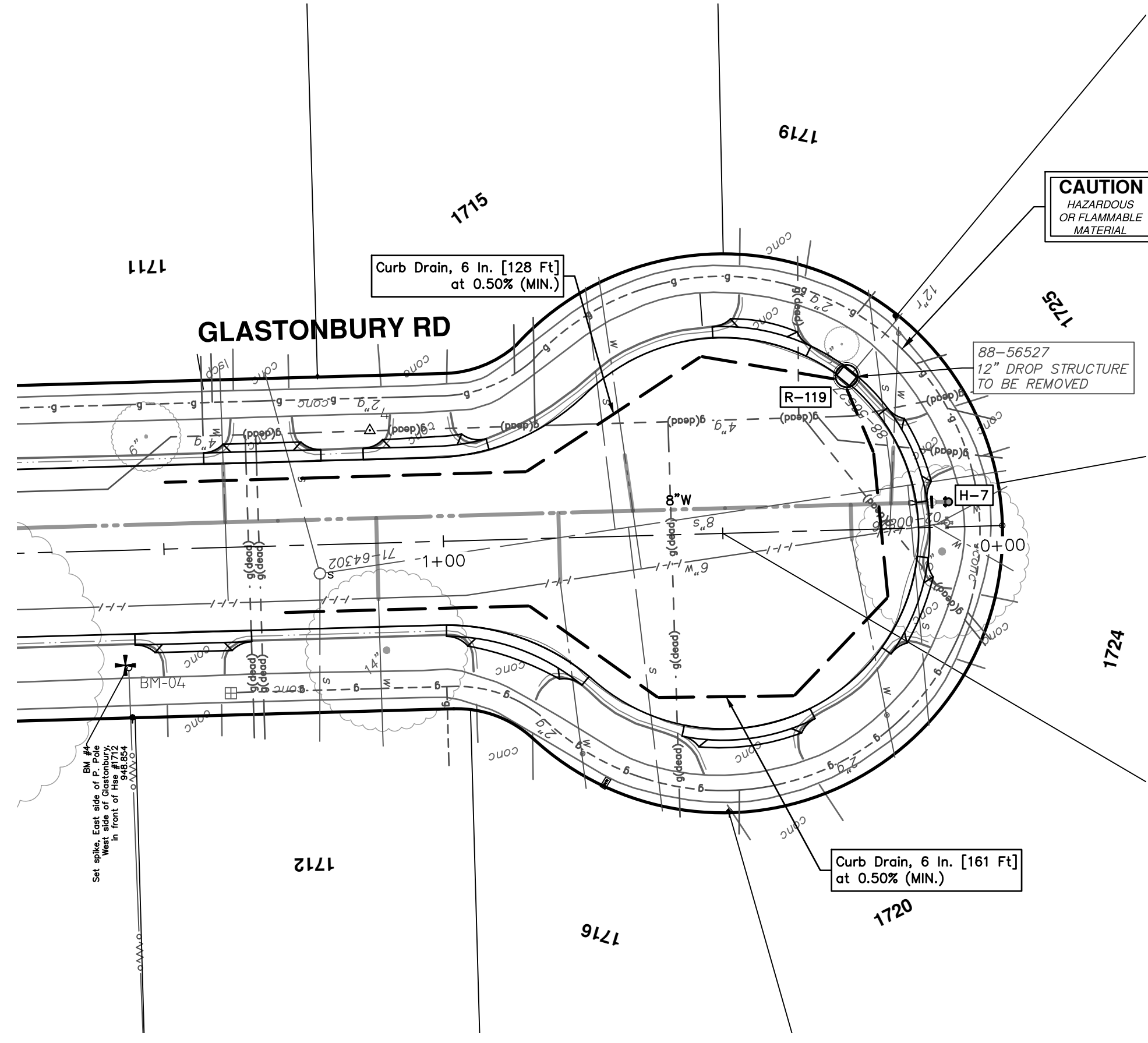
CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
2025 MISCELLANEOUS UTILITY PROJECTS
 STORM SEWER - GLASTONBURY WELDON
 R-100 - R-101, R-102, R-104 - R-105

SCALE PLAN: 1" = 20' PROFILE: 1" = 2'	SHEET NO. 42 OF 52 DRAWING NO. 2024006-42
--	--

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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	BID SET	12/12/24	AZD	TA

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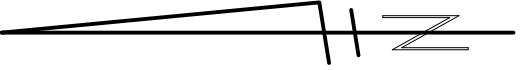


**EXISTING STORM SEWER
STRUCTURE REMOVAL
TABLE**

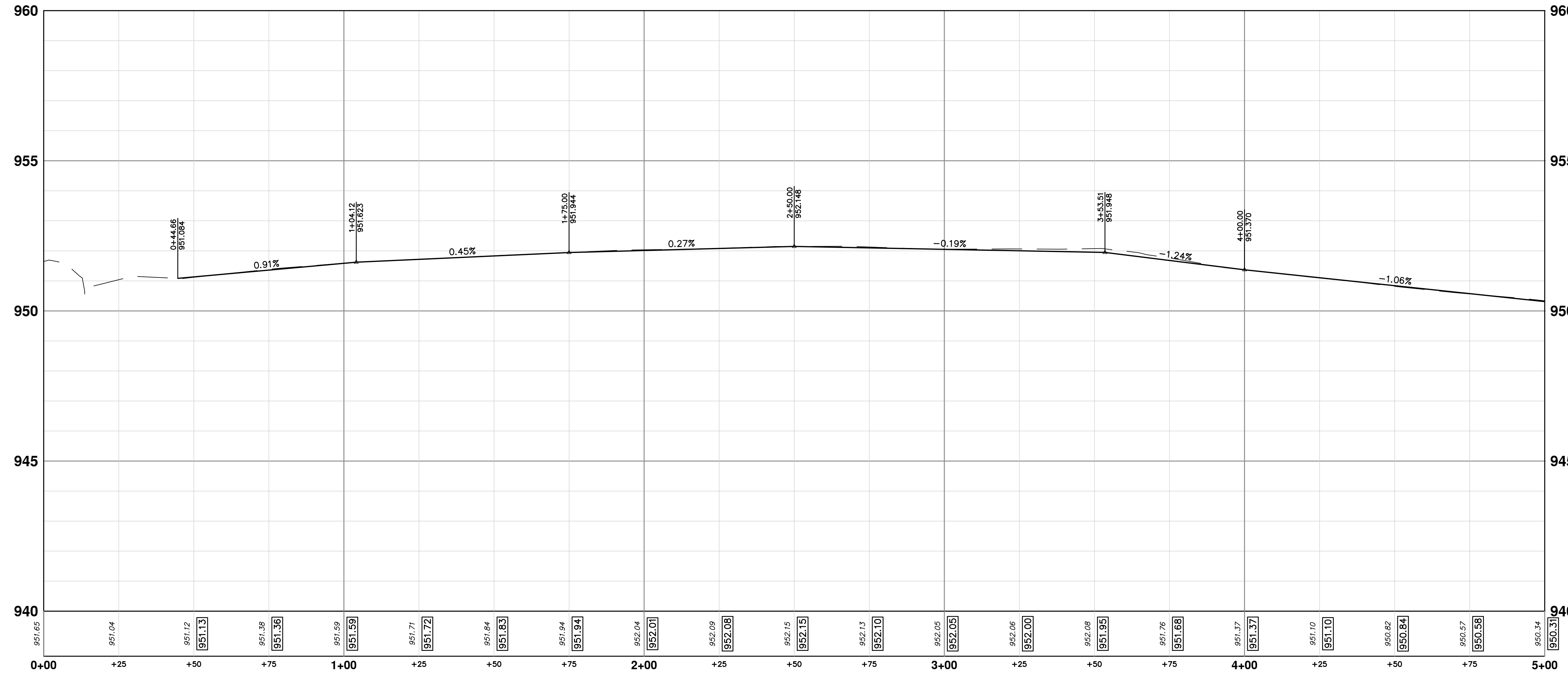
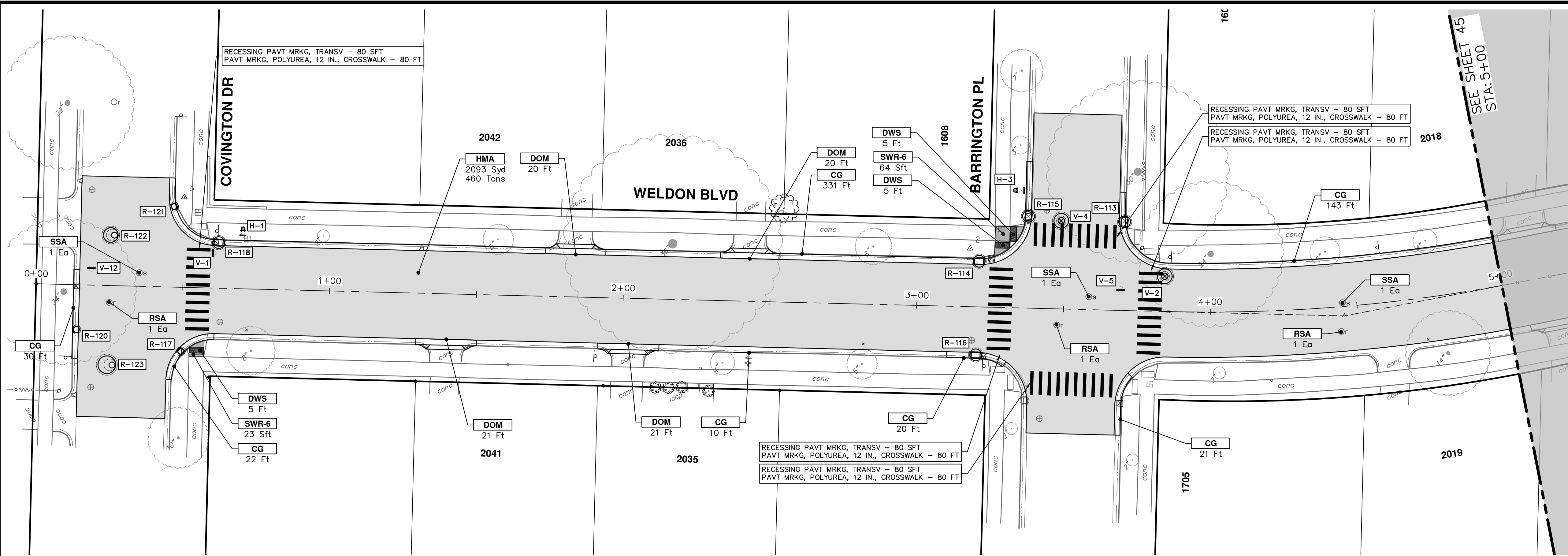
STRUCTURE	DEPTH (Feet)	REMOVE
88-56527	4.31	12" Drop Structure TO BE REMOVED

STORM SEWER STRUCTURE TABLE

STRUCTURE	UTILITY STATION	TYPE	RIM	INVERTS	DEPTH (Feet)	SUMP
R-119	0+28	4' High Capacity Inlet	943.92	6" N 939.90 6" SW 939.90 12" SE 939.38	6.54	2'



R:\2024006 Misc Util 2025\Plan Production\2024006Prd GlasWeld.dwg Dwg Created: 12-Dec-24 - _a2 standard bw.stb - Plot Date: 12-Dec-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

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

2025 MISCELLANEOUS UTILITY PROJECTS

ROAD PLAN & PROFILE - WELDON BLVD

STA. 0+00 - STA. 5+00

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

DRAWING No. 2024006-44

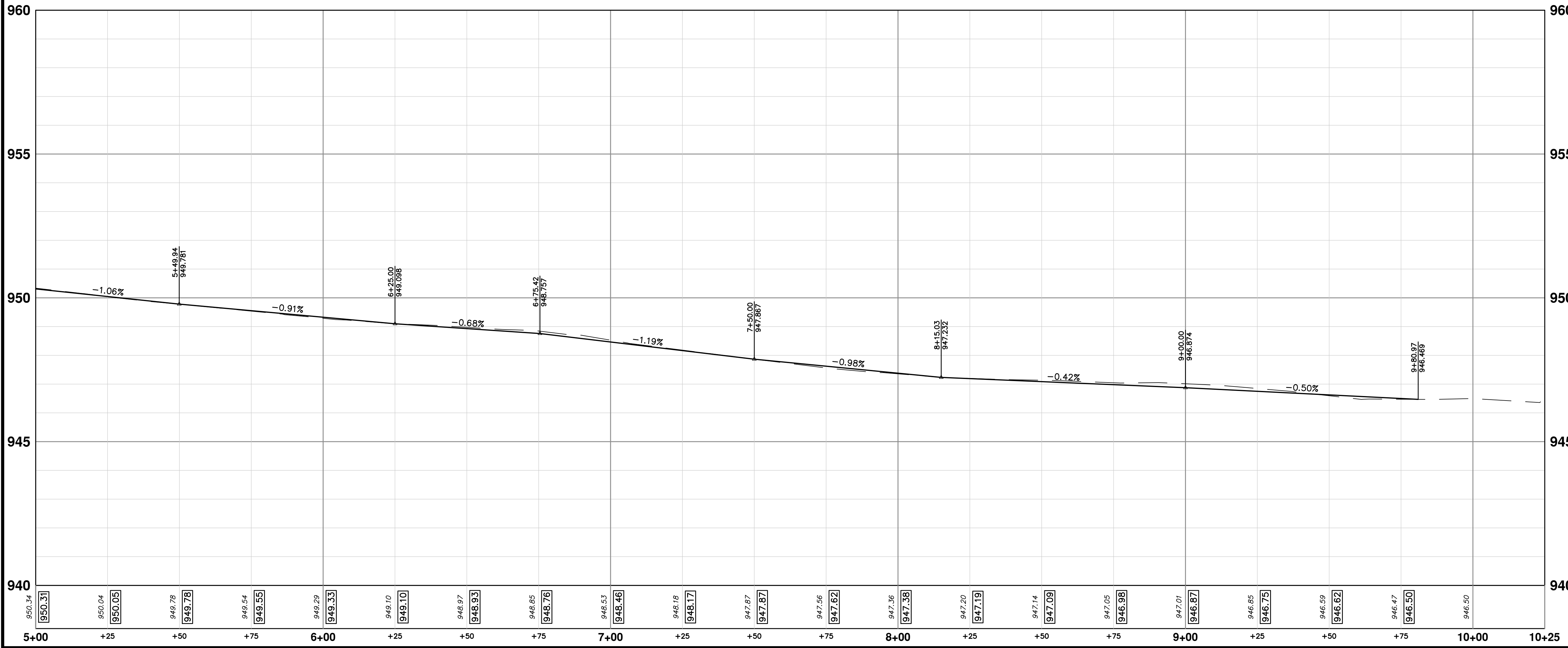
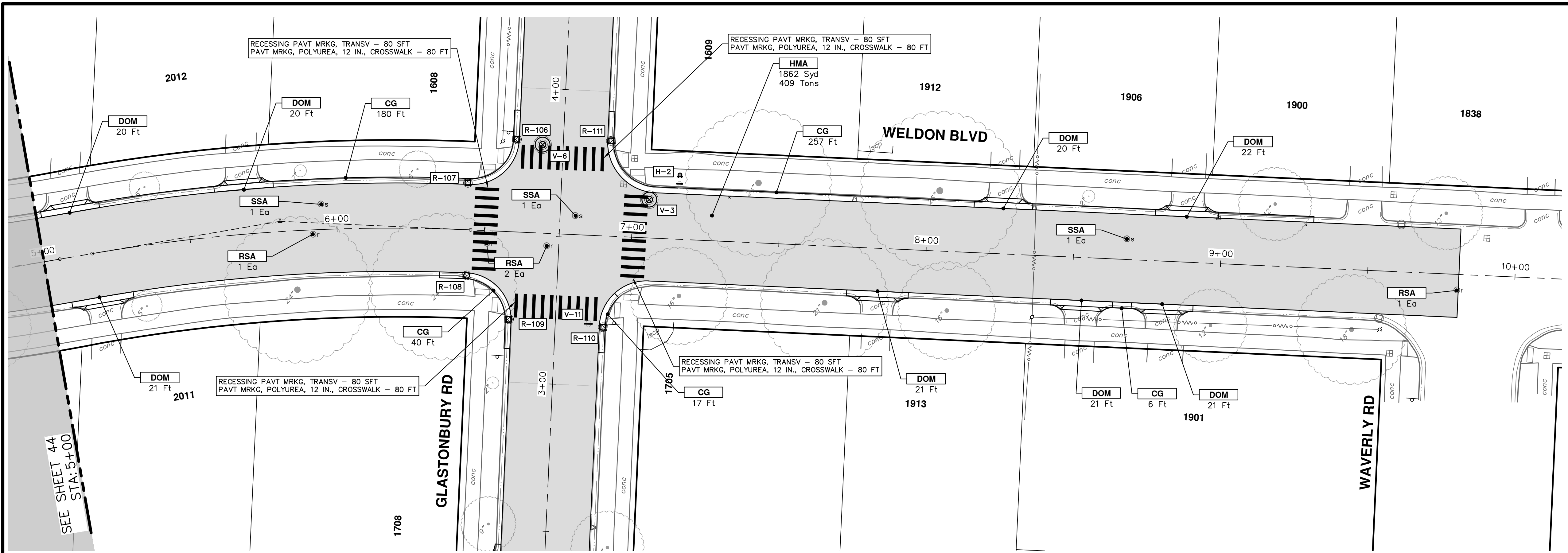
SHEET No. 44 OF 52

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R:\2024006 Misc Util 2025\Plan Production\2024006Prd GlasWeld.dwg Dwg Created: 12-Dec-24 - _a2 standard bw.stb - Plot Date: 12-Dec-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



Know what's below.
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REV	DATE	DESCRIPTION
01	12/12/24	BID SET

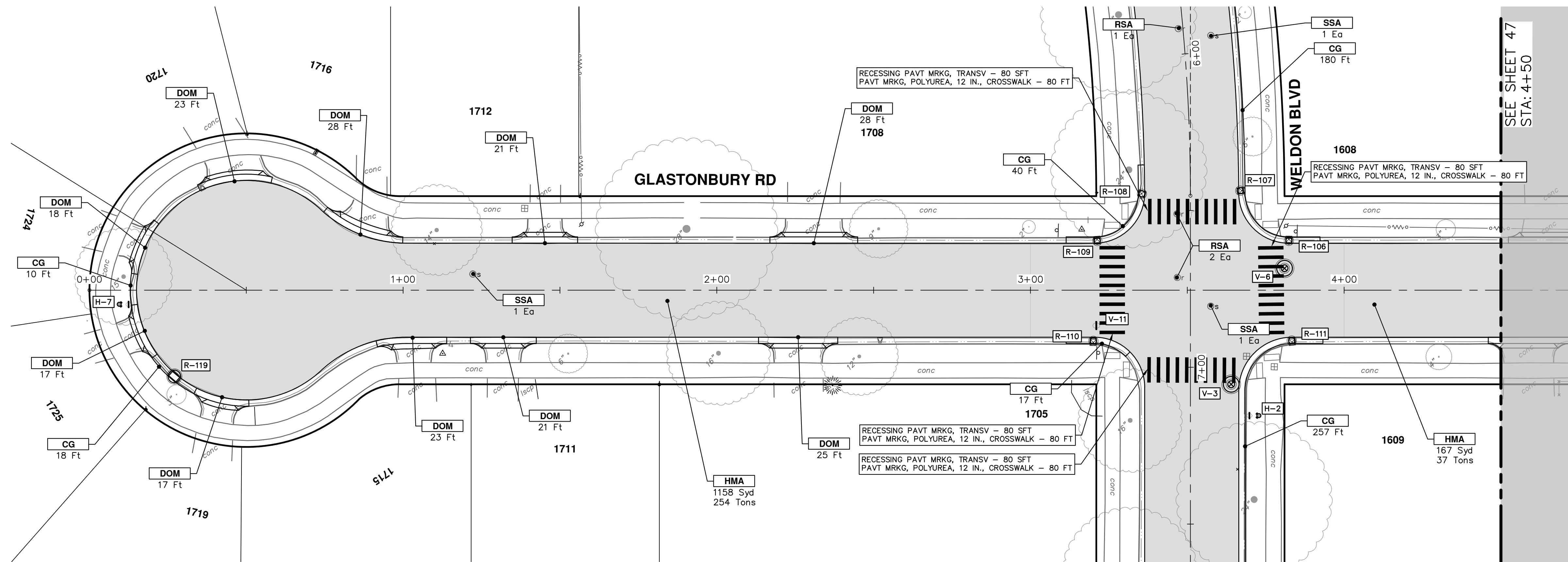


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2025 MISCELLANEOUS UTILITY PROJECTS
 ROAD PLAN & PROFILE - WELDON BLVD
 STA. 5+00 - STA. 10+25

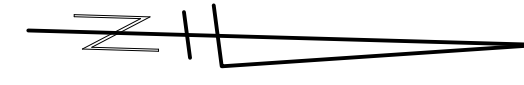
SCALE PLAN: 1" = 20'
 PROFILE: 1" = 2'

DRAWING No. **2024006-45**

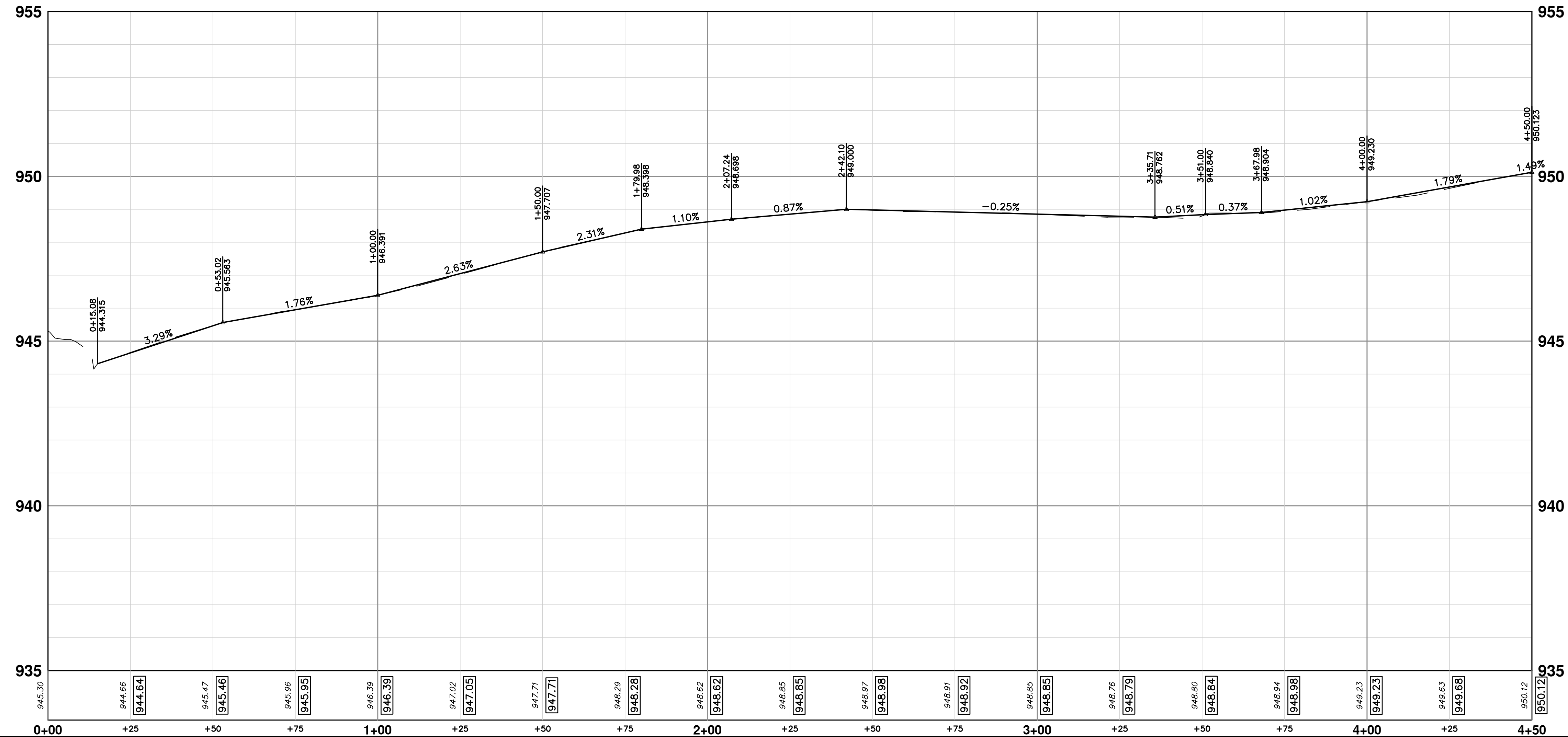
SHEET No. **45 OF 52**



SEE SHEET 47
STA: 4+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



CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

2025 MISCELLANEOUS UTILITY PROJECTS

ROAD PLAN & PROFILE - GLASTONBURY RD

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

DRAWING No. 2024006-46

SHEET No. 46 OF 52

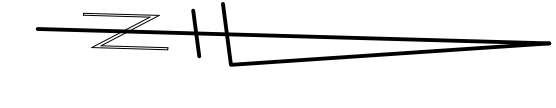
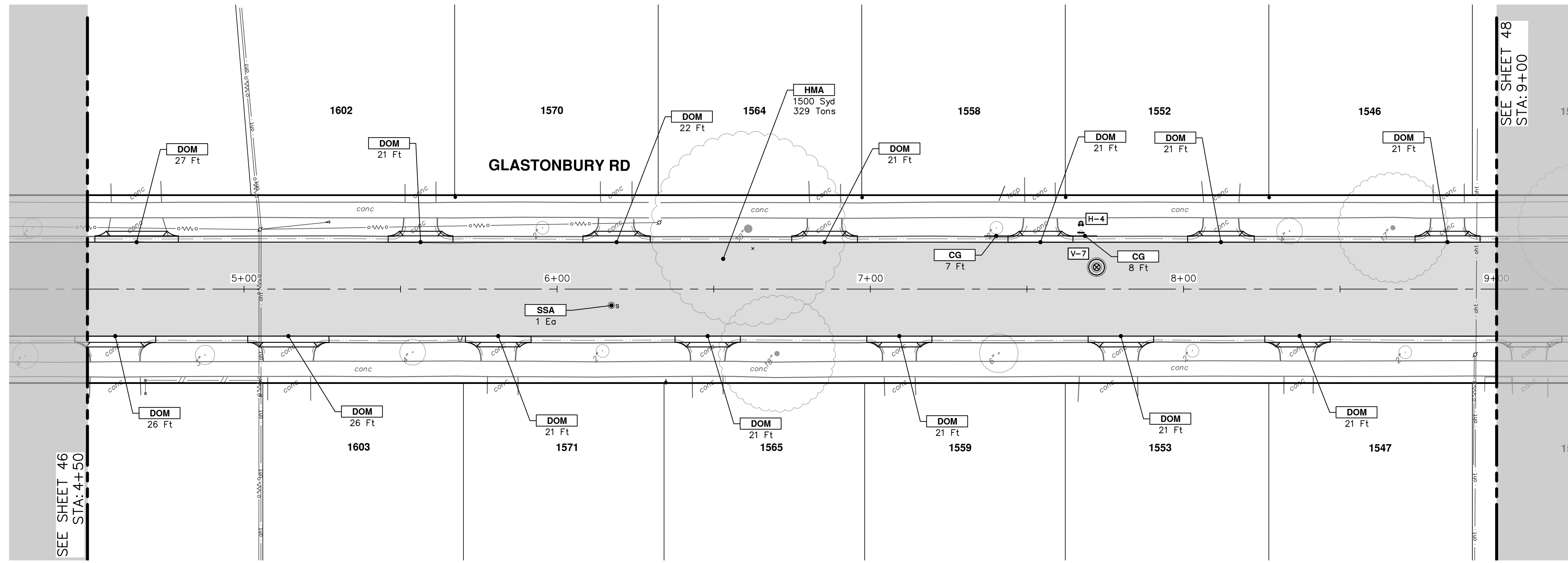
STA. 0+00 - STA. 4+50

ANN ARBOR MICHIGAN

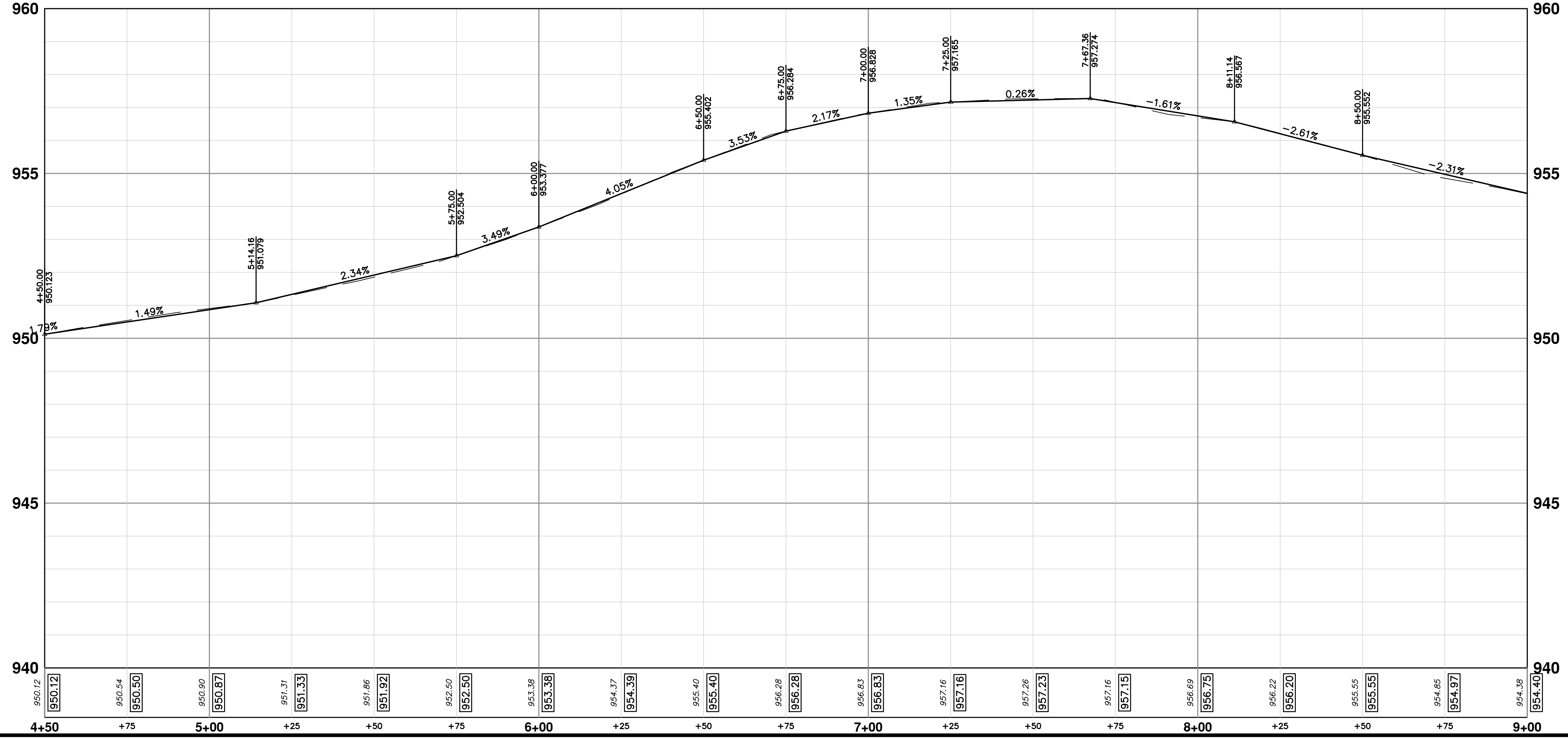
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CONSTRUCTION KEY	
KEY	DESCRIPTION
HMA	PLACE HMA, PLACE MATERIAL IN LIFTS ACCORDING TO THE TYPICAL SECTION AND AS DIRECTED BY THE ENGINEER.
HMA APP	HMA Approach
HP	Hand Patching
CG	Conc, Curb or Curb & Gutter, All Types
DOM	Conc, Driveway Opening, Type 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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Know what's below.
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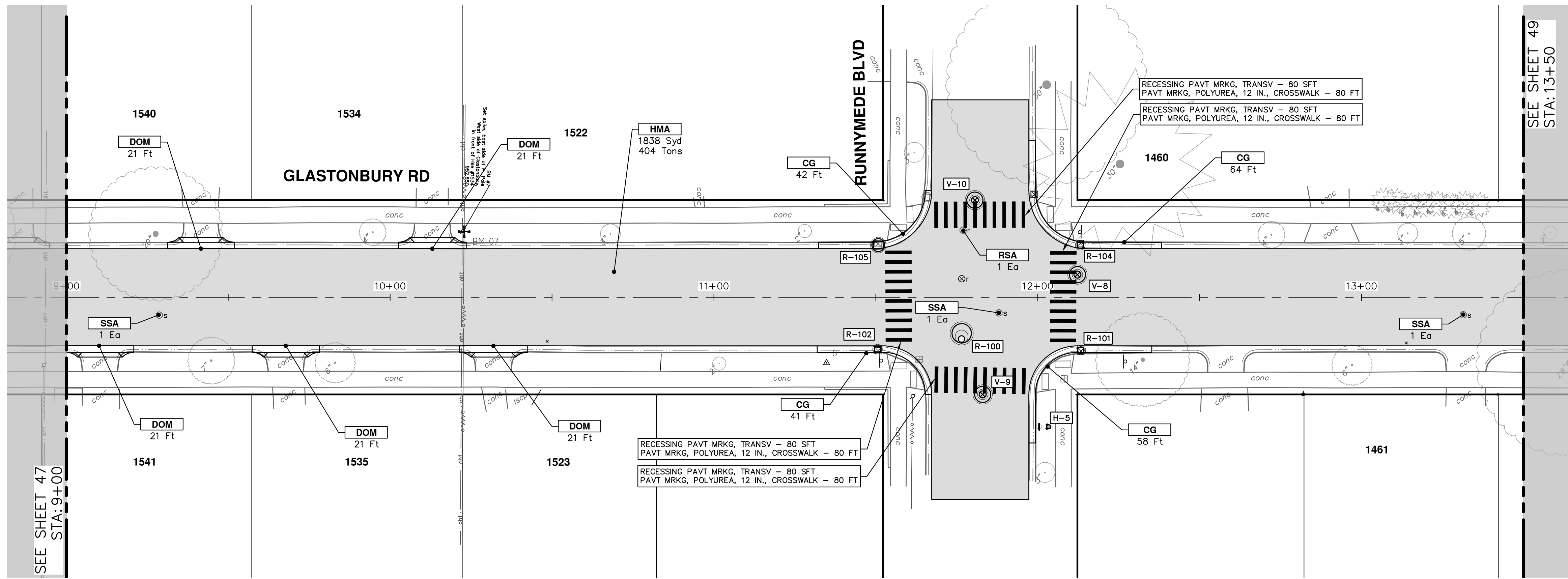
REV.	DATE	DRAWN	CHECKED	DESCRIPTION
01	12/12/24	AZD	TA	
<p>CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING</p> <p>2025 MISCELLANEOUS UTILITY PROJECTS</p> <p>ROAD PLAN & PROFILE - GLASTONBURY RD</p> <p>STA. 4+50 - STA. 9+00</p>				

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

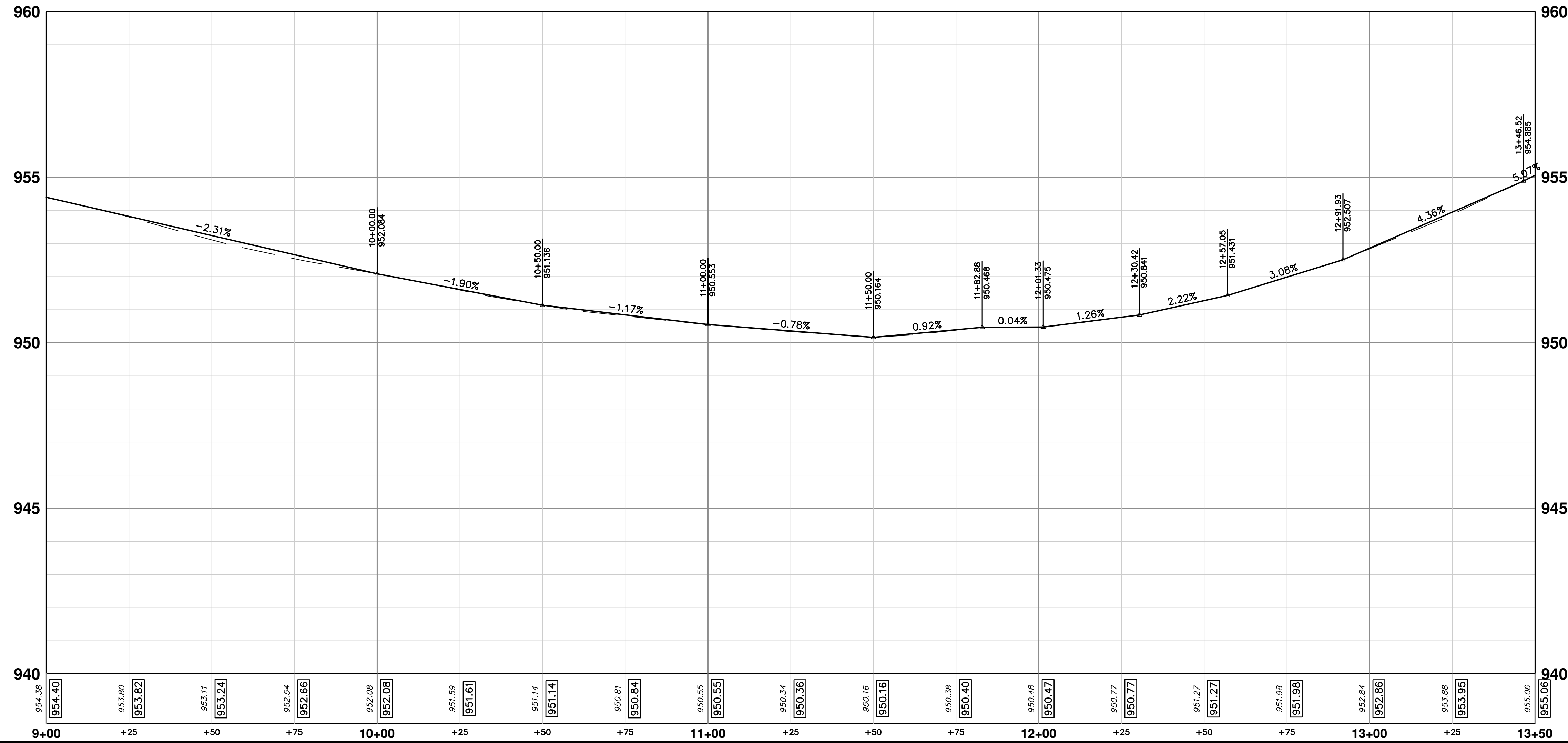
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SHEET No. 47 OF 52



SEE SHEET 49
STA: 13+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



CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

2025 MISCELLANEOUS UTILITY PROJECTS

ROAD PLAN & PROFILE - GLASTONBURY RD

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

DRAWING No. 2024006-48

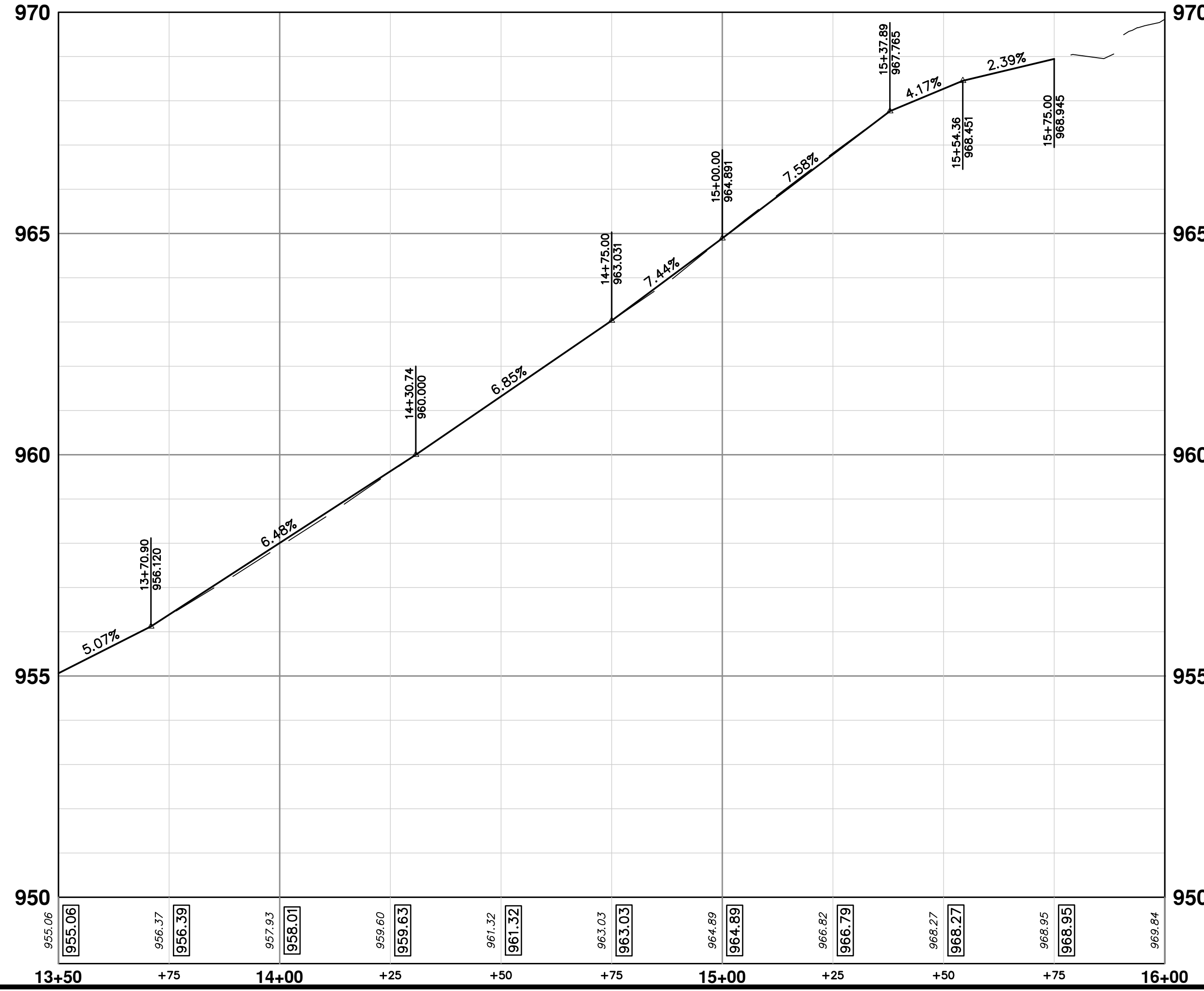
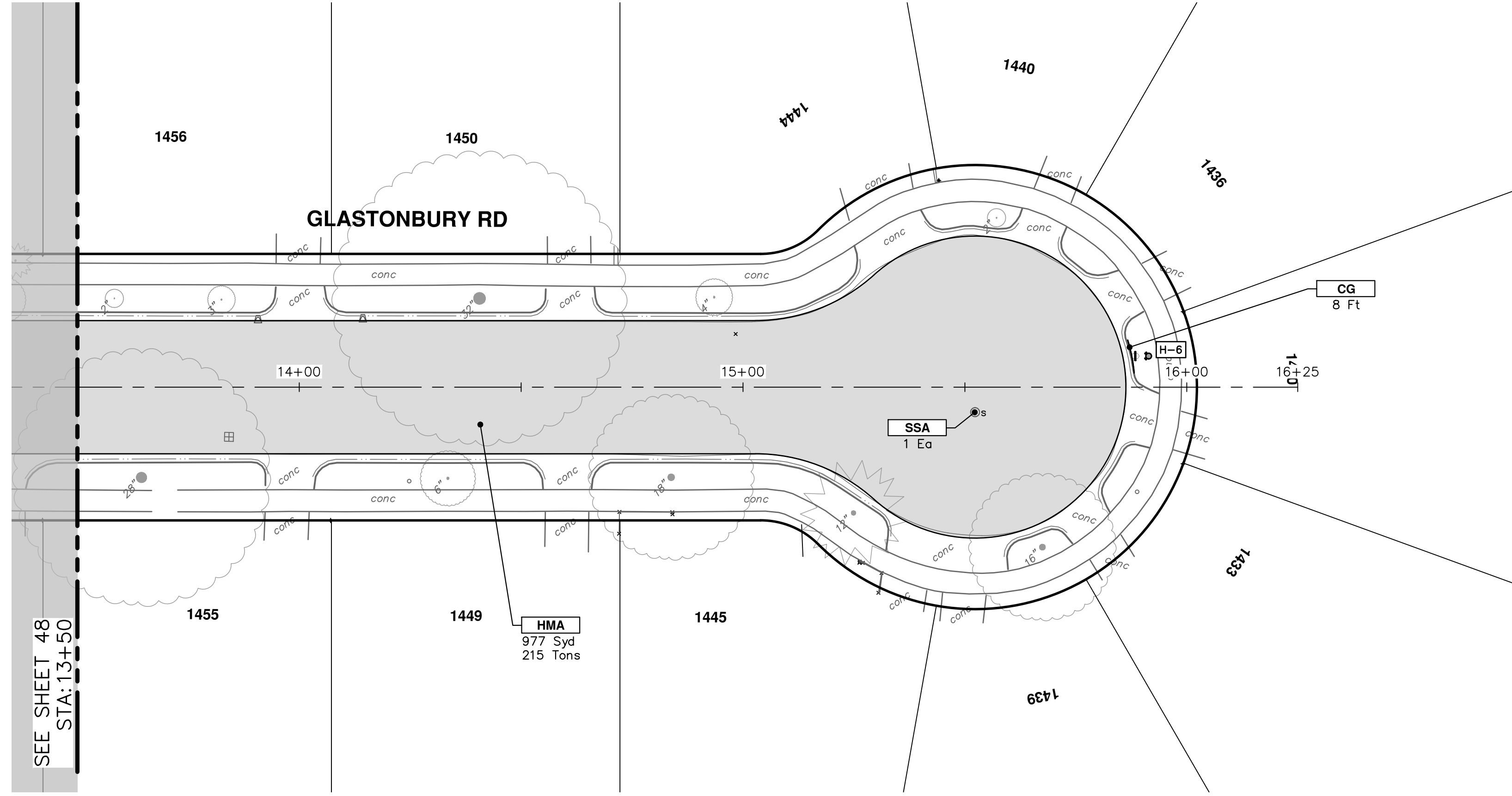
SHEET No. 48 OF 52

STA. 9+00 - STA. 13+50

DATE: 12/12/24
DRAWN: AZD
CHECKED: TA

DESCRIPTION: REV. 01 BID SET

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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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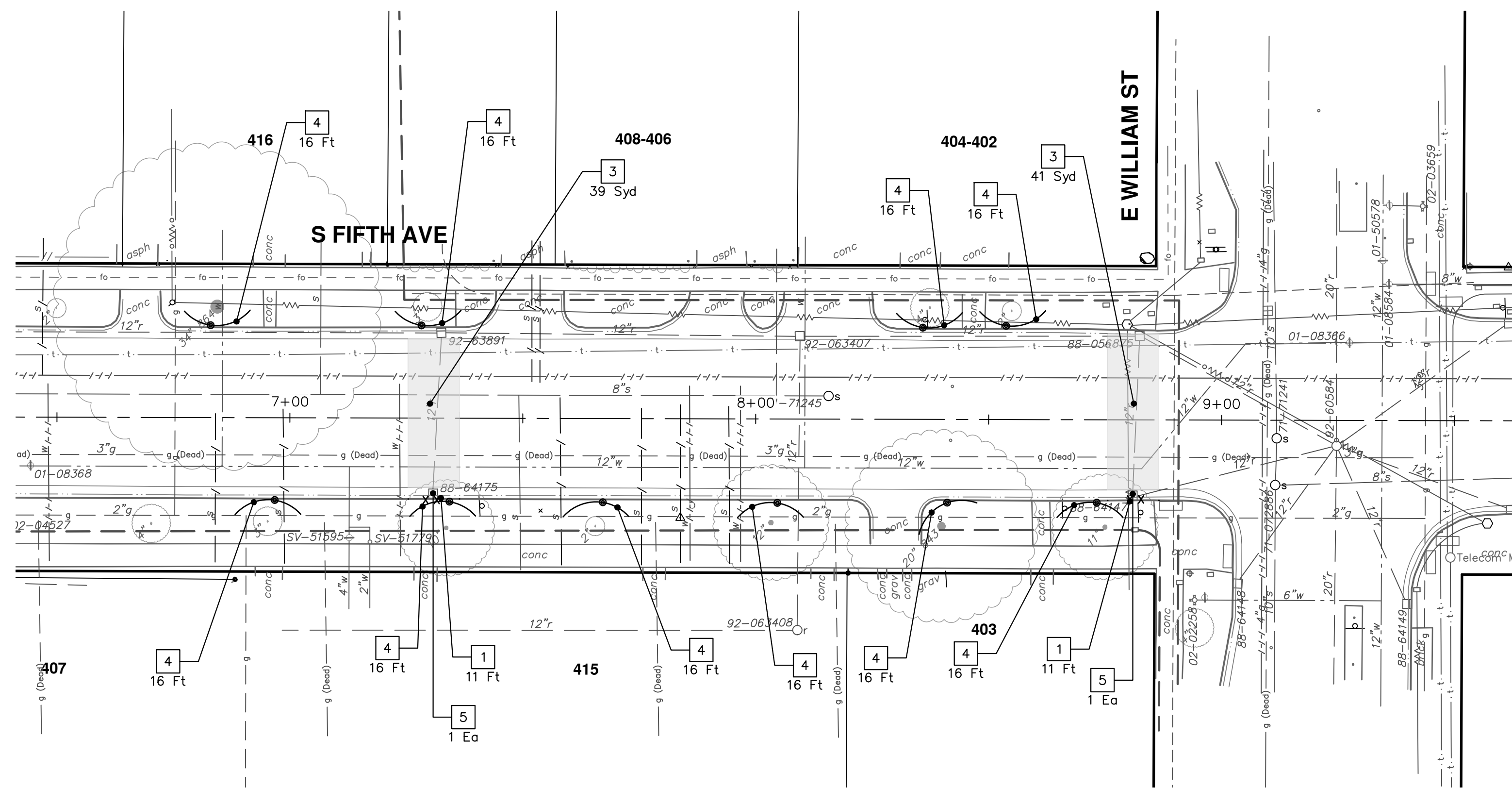
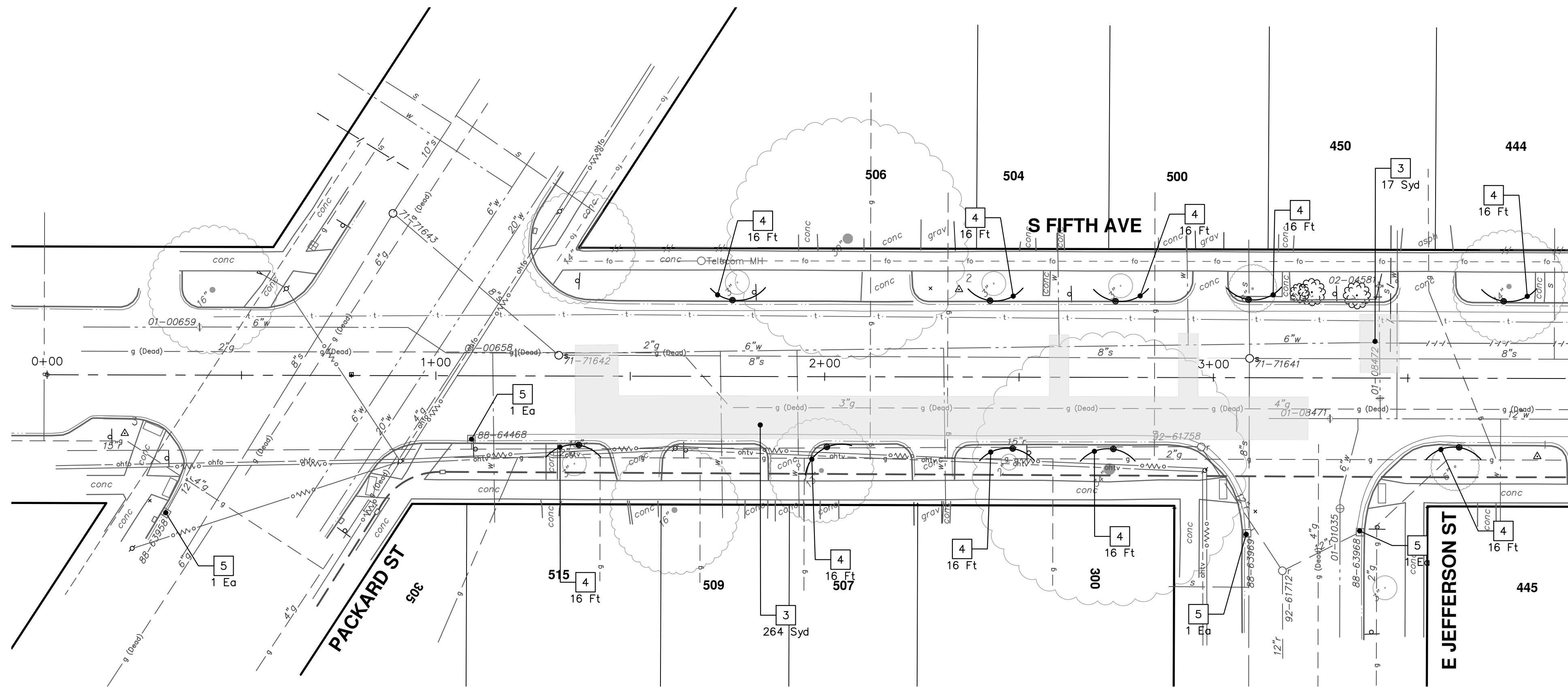


CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
2025 MISCELLANEOUS UTILITY PROJECTS
ROAD PLAN & PROFILE - GLASTONBURY RD

SHEET No. 49 OF 52
SCALE PLAN: 1" = 20'
PROFILE: 1" = 2'
DRAWING No. 2024006-49

REV. DESCRIPTION DATE DRAWN CHECKED
01 BID SET 12/12/24
AZD
TA

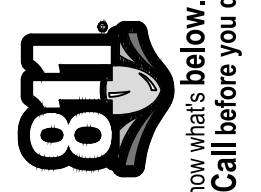
STA. 13+50 - STA. 16+00



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	Pavement, Any Thickness or Material, 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

THE CITY'S 2025 RESURFACING PROJECT WILL REPLACE ASPHALT AND CURB.
 CONTRACTOR SHALL PLAN WORK TO MAINTAIN ONE LANE OF LOCAL TRAFFIC AT ALL TIMES. CONTRACTOR SHALL USE 6 INCHES OF MAINTENANCE AGGREGATE ABOVE COMPACTED AGGREGATE BASE IN TRENCHES AFTER WORK IS COMPLETE, AND AS DIRECTED BY THE ENGINEER. MAINTENANCE AGGREGATE SHALL BE PAID FOR AS AGGREGATE BASE COURSE, 21AA CIP.



REV.	DATE	DESCRIPTION
01	12/12/24	BID SET
		TA
		AWN
		CHECKED

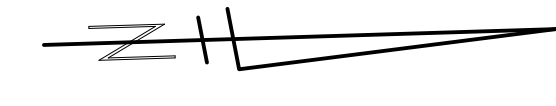
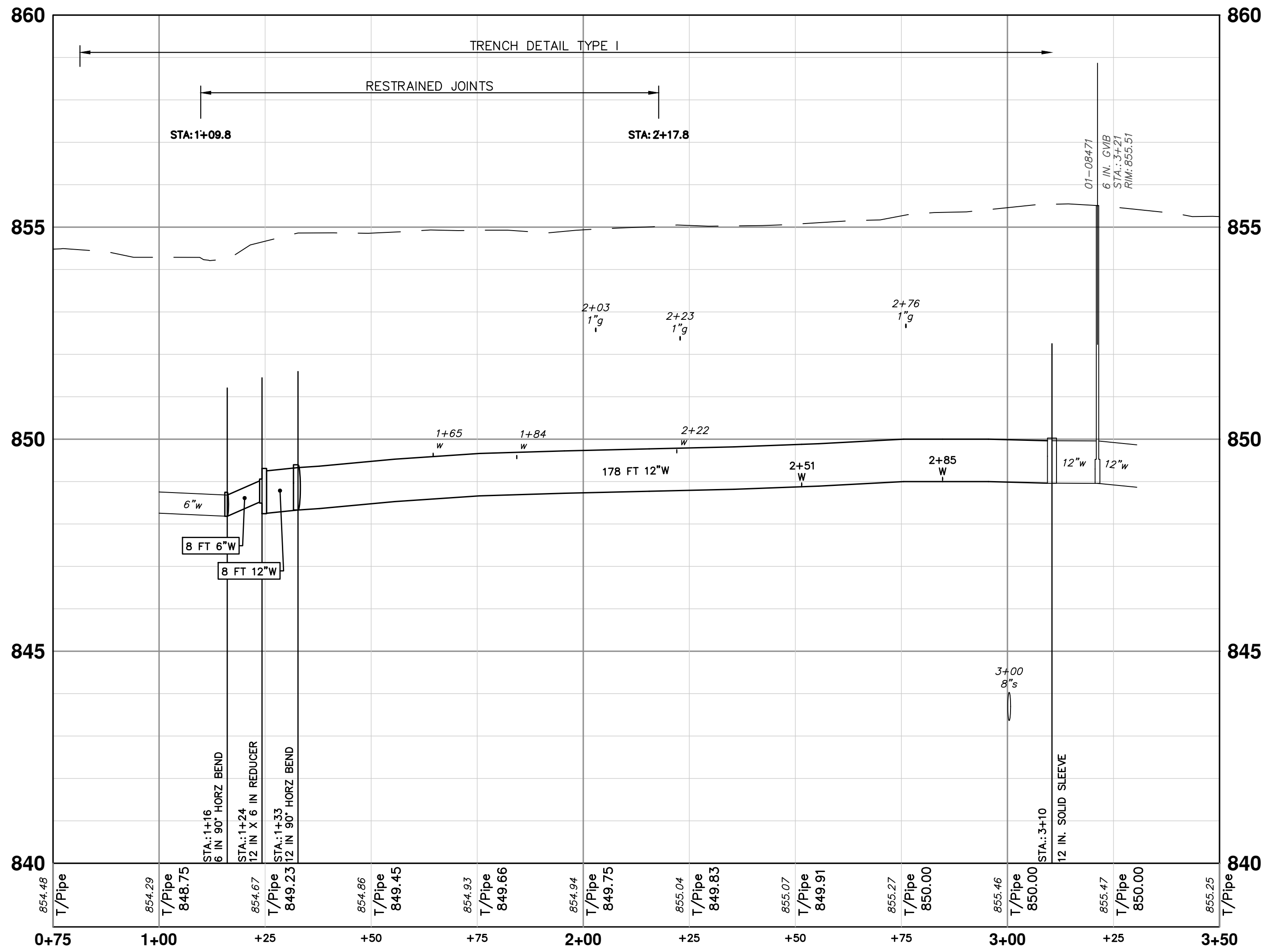
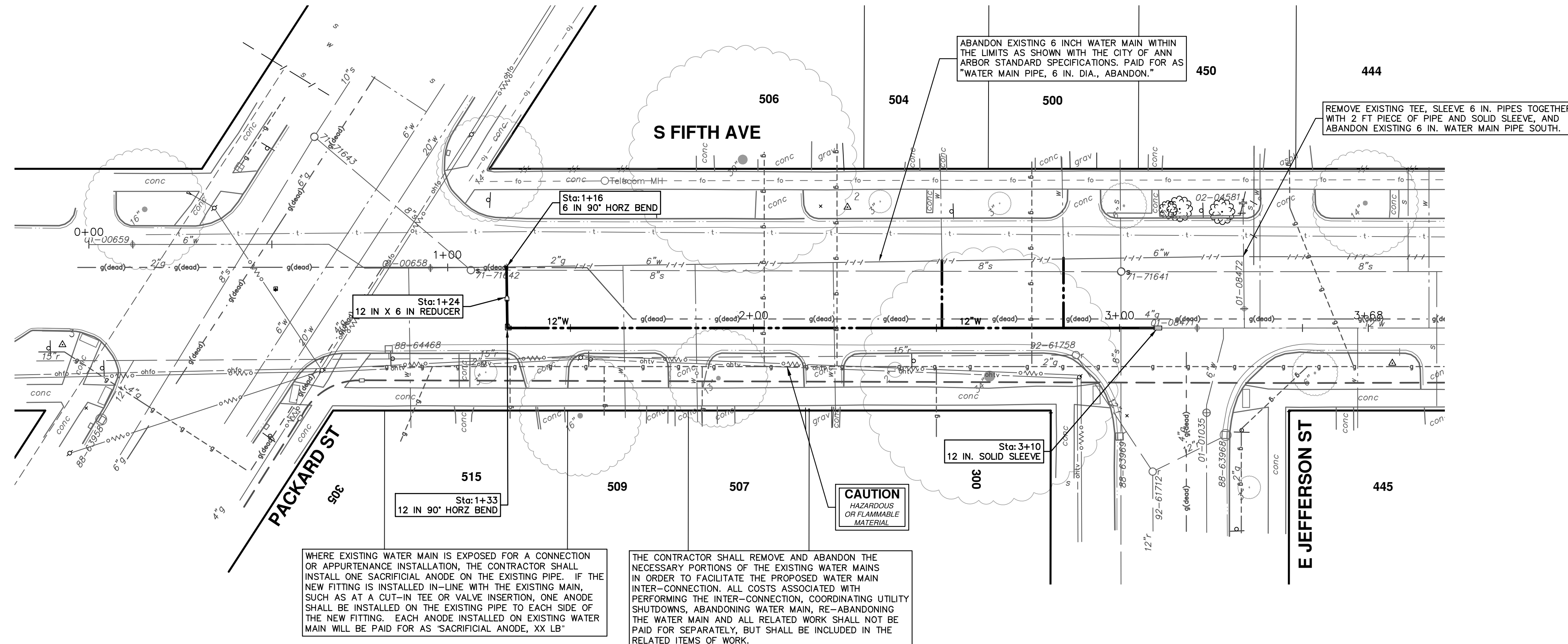
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2025 MISCELLANEOUS UTILITY PROJECTS
REMOVALS - S FIFTH AVE
 STA. 1+06 - STA. 9+00

DRAWING No. **2024006-50**
 SHEET No. **50 OF 52**

R:\2024006 Misc Util 2025\Plan Production\2024006Wtr Fifth.dwg Dwg Created: 21-Nov-24 - _a2_standard bw.stb - Plot Date: 12-Dec-24



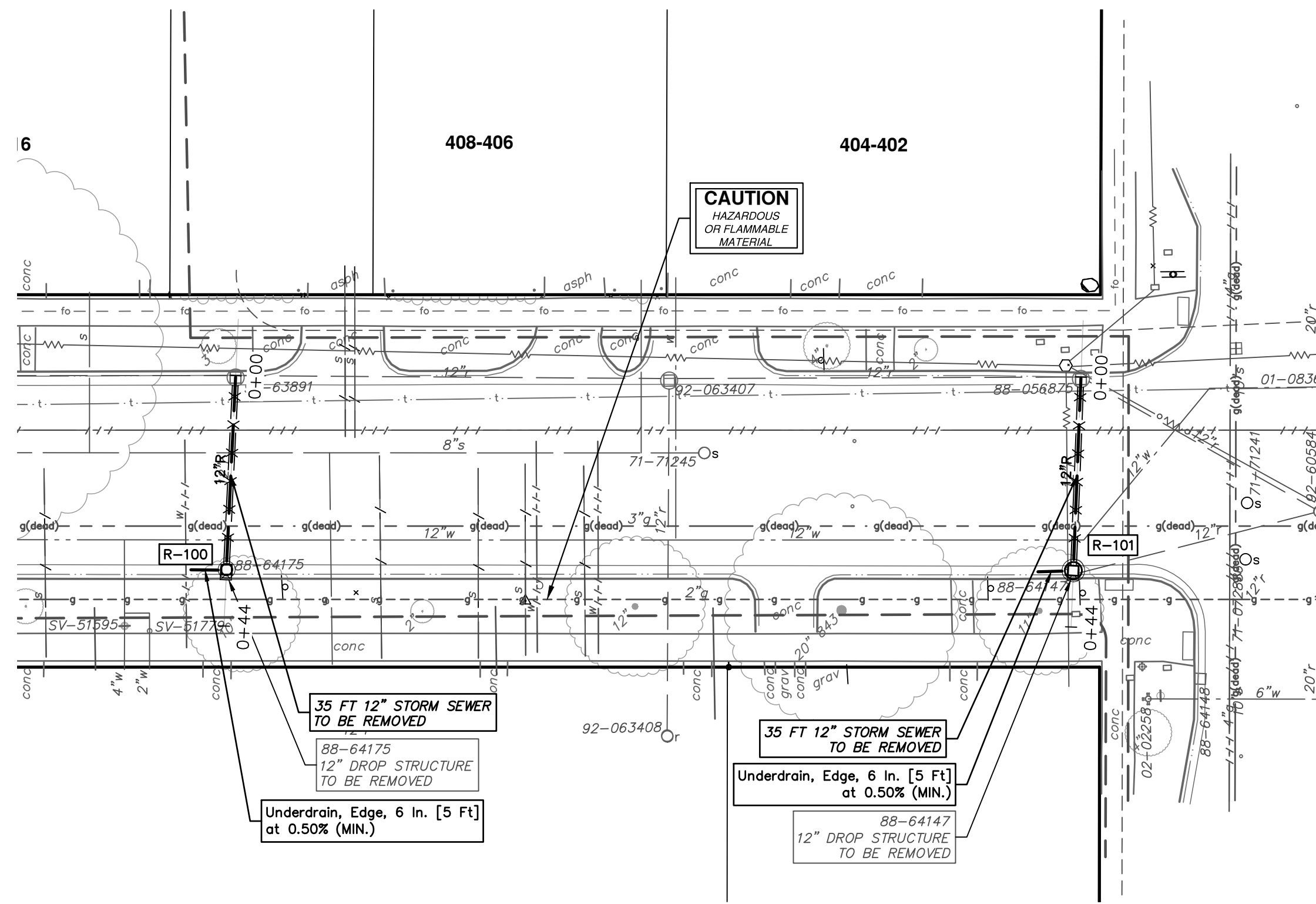
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2025 MISCELLANEOUS UTILITY PROJECTS
 WATER MAIN - S FIFTH AVE
 STA. 0+81 - STA. 3+01

SHEET No. **51 OF 52**

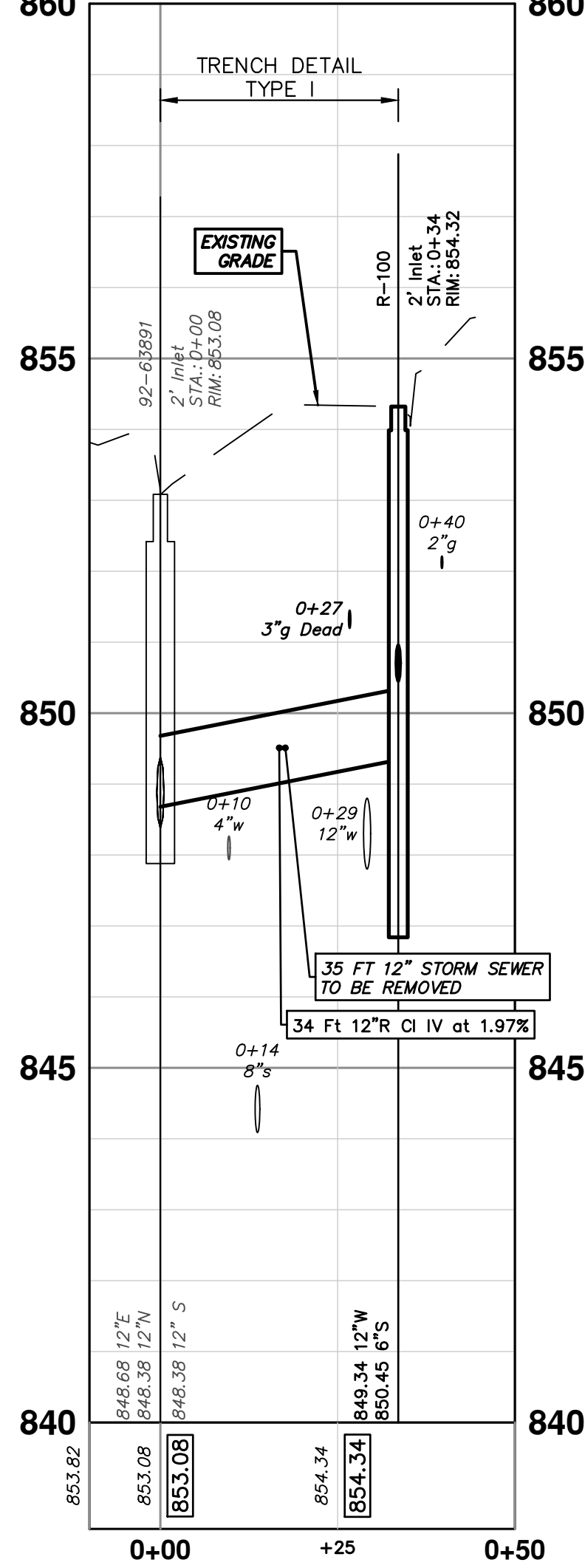
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 PROFILE: 1" = 2'
 DRAWING No. **2024006-51**



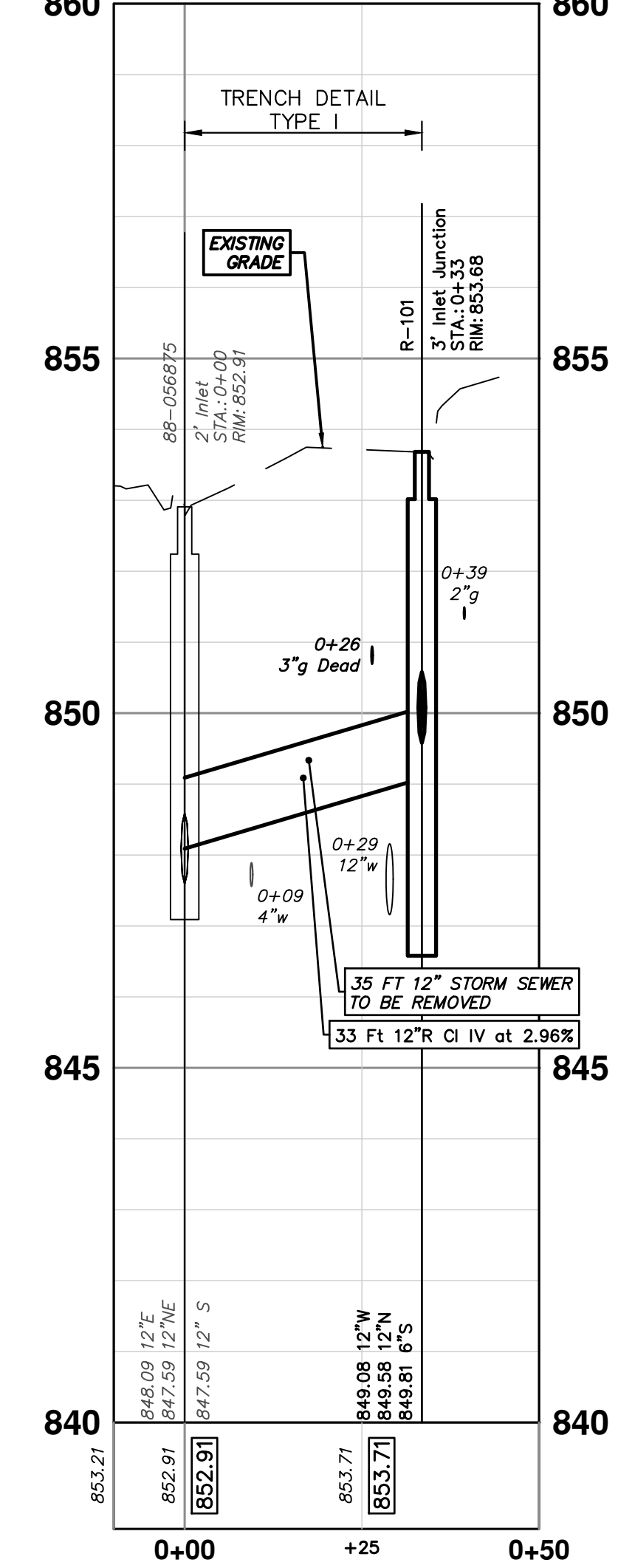
EXISTING STORM SEWER STRUCTURE REMOVAL TABLE

STRUCTURE	DEPTH (Feet)	REMOVE
88-64147	4.00	12" Drop Structure TO BE REMOVED
88-64175	4.70	12" Drop Structure TO BE REMOVED

92-63891 - R-100



88-056875 - R-101



STORM SEWER STRUCTURE TABLE

STRUCTURE	UTILITY STATION	TYPE	RIM	INVERTS	DEPTH (Feet)	SUMP
R-100	0+34	2' Inlet	854.32	12" W 849.34 6" S 850.45	6.98	2'
R-101	0+33	3' Inlet Junction	853.68	12" W 849.08 12" N 849.58 6" S 849.81	6.60	2'



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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
2025 MISCELLANEOUS UTILITY PROJECTS
STORM - S FIFTH AVE
R-100, R-101

SCALE PLAN: 1" = 20'
PROFILE: 1" = 2'
DRAWING No. 2024006-52

REV	DESCRIPTION	DATE	DRAWN	CHECKED
01	BID SET	12/12/24	AZD	TA