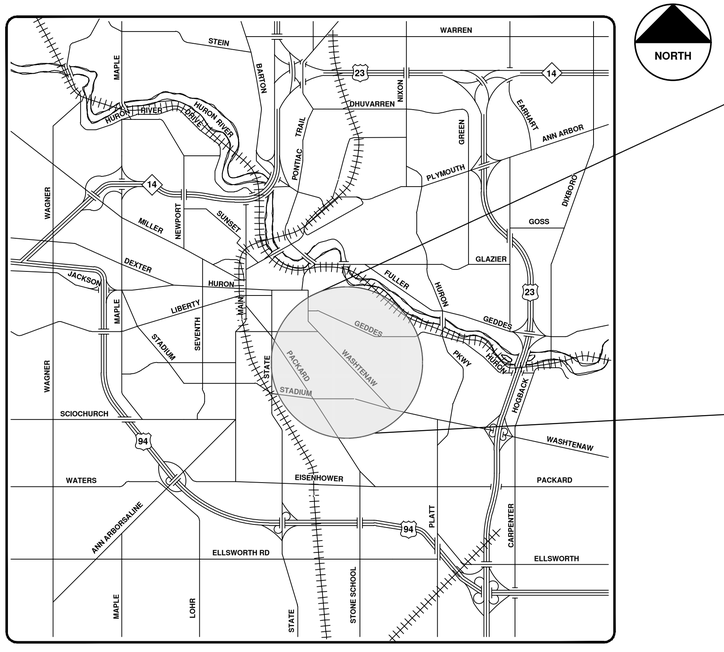
CITY OF ANN ARBOR
ENGINEERING

WASHTENAW AVE.
WATER MAIN
REPLACEMENT PROJECT

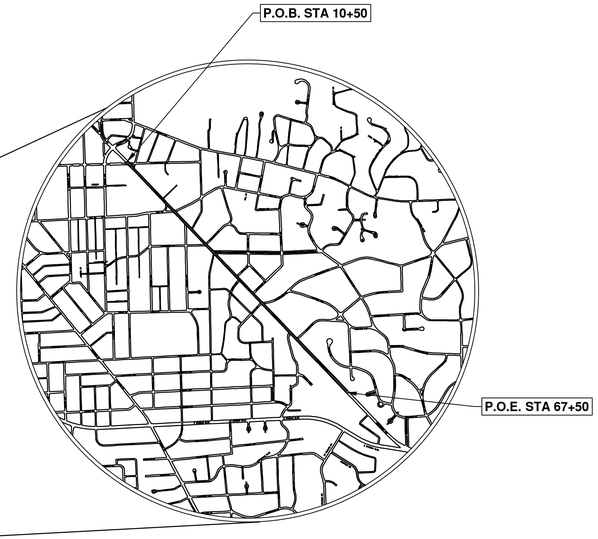
RFP No. 26-53, File No. 2025-015

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VICINITY MAP



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.

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

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
1	70% SUBMITTAL	02/20/2026	AJ/RD	AL/CH
2	90% SUBMITTAL	10/15/2026	AJ	AL/DD
3	FINAL SUBMITTAL	11/17/2026	AJ	AL
4	–	–	–	–
5	–	–	–	–

CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
P.O. BOX 8647
ANN ARBOR, MI 48107-8647
734.794.6410
www.a2gov.org

PREPARED UNDER THE SUPERVISION OF

STATE OF MICHIGAN – ALAN P. LOEBACH – License No. 6201043167 – REGISTERED PROFESSIONAL ENGINEER

11 / 17 / 2026
ALAN LOEBACH, P.E. — DATE
PROJECT MANAGER

CITY APPROVAL

STATE OF MICHIGAN – JEREMY J. SCHROT – License No. 6201059414 – REGISTERED PROFESSIONAL ENGINEER

11 / 17 / 2026
JEREMY SCHROT, P.E. — DATE
PROJECT MANAGER

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

WATER MAIN REPLACEMENT ON WASHTENAW AVE. FROM S. UNIVERSITY AVE. TO 2251 E. STADIUM BLVD

SCALE

DRAWING No. 2025-015-1

SHEET No. 1 OF 44

AA Job No. 2025-015

© WASHTENAW AVE. WATER MAIN REPLACEMENT PROJECT; RFP No. 26-53; AA Job No. 2025-015

J:\AA\Design\AA25002 – Washtenaw Ave Watermain\Ann Arbor Cads\Plan Production\AA25002_Cov.dwg – _a2 standard bw.stb – Plot Date: 11/12/2026 3:56:43 PM

CONSTRUCTION NOTES:

1. Driveways and entrances to buildings, real property, and the like shall not be blocked except for short durations and only when approved by the Engineer. Vehicular and pedestrian access shall be maintained at all times. It shall be the Contractor's responsibility to coordinate all necessary driveway closures with the property owner(s) and resident(s) in the areas of construction.
2. The location and depth of all existing utilities and service leads are to be field verified by the Contractor prior to construction.
3. Location and depth of utilities as depicted on the plans is approximate and shown according to the best information available. It is the Contractor's responsibility to excavate ahead and adjust depth of conflict utilities accordingly. Any damage to utilities is the Contractor's responsibility to avoid and/or repair as necessary.
4. The Contractor is to take special care to protect the existing water main and be responsible for maintaining consistent water service.
5. During non-working hours no trench shall remain open; any open trench shall be properly secured with protective fencing. This work shall be included in the item of work "General Conditions".
6. Trenches for new water services shall be excavated to MIOSHA 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, it 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. All ductile iron pipe and fittings shall be polyethylene wrapped per ANSI/AWWA C105/A21.5.
11. Cor-blu bolts to be used at all mechanical water main joints at hydrants and Megalug fittings
12. The Contractor shall construct, flush, and bacteriologically test the water main per Detailed Specification "Water Main Installation and Testing" and as approved by the Engineer. All chlorinated water shall be discharged directly into an approved sanitary sewer. The Contractor shall supply all necessary hoses, fittings and the like to accomplish this work.
13. 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.
14. "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.
15. Postal delivery and refuse pickup service shall be maintained at all times by the Contractor.
16. 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.
17. Where street curbs are undermined due to construction activities, they shall be removed and replaced as directed by the Engineer.
18. 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".
19. All curb, sidewalk, driveway approach removals shall be approved by Engineer before the work is done.
20. Sawed sewer pipe connections shall be coupled with a Fernco flexible coupling and a stainless steel shear ring.
21. The location of material stock piles and on-site staging areas to be approved by the Engineer.
22. For mainline paving, the width of the mat for each pass of the paver shall be not less than 10.5' or greater than 15', as directed by the Engineer. The Engineer will direct the layout of the longitudinal joints during construction.
23. 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.
24. Payment for drainage structure sumps, where specified, shall be included in the payment for the various drainage structure sizes and or types.
25. Where sewer pipes of different sizes or materials are joined, Fernco flexible couplings with stainless steel shear rings shall be used. The Contractor's purchase price for these devices, including shipping, shall be paid as an extra. Prior to payment for this item, the Contractor shall submit receipts for the Engineer's review and approval. All other costs associated with the installation of these devices shall be included in the payment for the sewer.
26. Where sewer and water main are to be removed & replaced or added, all pipe shall be installed using Trench Detail detailed in the specifications or shown on Plans. Backfill for sewer and water construction shall be MDOT Granular Material, Class II, Modified.
27. 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. This work will not be paid for separately, but shall be included in "General Conditions"
28. In areas where edge drain cannot be installed in accordance with City of Ann Arbor Detail SD-TD-5, the edge drain shall be installed at the depth as indicated on the plans, or as directed by Engineer. In no case shall the edge drain be installed at a grade less than 0.50% or at a depth of less than 2' below top of proposed pavement.

MISCELLANEOUS QUANTITIES - THIS SHEET

Item	Quantity	Unit
General Conditions, Max. $200,000.00	1	LS
Project Supervision, Max. $100,000.00	1	LS
Project Clean-Up and Restoration	1	LS
Digital Audio Visual Coverage	1	LS
Erosion Control, Inlet Protection, Fabric Drop	55	Ea
Erosion Control, Silt Fence	500	Ft
Minor Traffic Control, Max $90,000.00	1	LS
Traffic Regulator Control	1	LS
DS_Tree Trimming Allowance	10000	Dlr
DS_Pavt, Any Thickness, Rem	25	Syd
Curb, Gutter, and Curb and Gutter, Any Type, Rem	100	Ft
Subgrade Undercutting, Type III	100	Cyd
Exploratory Excavation, SD-TD-1, (0-10' Deep)	45	Ea
6 In., SDR 26 PVC Sanitary Service Lead, SD-TD-2	100	Ft
Excavate & Backfill For Water Service Tap And Lead	50	Ft
Storm Sewer Pipe, 12 In. Dia., Rem	12	Ft
Storm Sewer Drop Structure, Rem	4	Ea
Underdrain, Subbase, 6 In.	3700	Ft
Fire Hydrant, Extension	25	Ft
6 In. 45° DIP Bend	12	Ea
8 In. 45° DIP Bend	12	Ea
Sacrificial Anode, 17-pound	9	Ea
Sacrificial Anode, 32-pound	9	Ea
Temporary Water Main Line Stop, 8 In. or less	2	Ea
Temporary Water Main Line Stop, Additional Rental Day	30	Ea
Hand Patching	55	Ton
Underground Sprinkling System, Restore	5000	Dlr

TEMPORARY SEEDING:

1. SEED IN ACCORDANCE WITH PROJECT DRAWINGS AND SPECIFICATIONS.
2. ANY DISTURBED AREA NOT PAVED, SEEDED, MULCHED, SODDED OR BUILT UPON BY NOVEMBER 15TH OR JUNE 30TH IS TO BE TEMPORARILY STABILIZED PER SPECIFICATIONS.

****

ON SITE SOILS PER THE USDA SOIL SURVEY OF WASHTENAW COUNTY, MICHIGAN:

- FoA – FOX SANDY LOAM, 0 TO 2 PERCENT SLOPES.
- WawabB – WAWASEE LOAM, 2 TO 6 PERCENT SLOPES.
- WawabC – WAWASEE LOAM, 6 TO 12 PERCENT SLOPES.

****

TOTAL AREA OF PROPOSED DISTURBANCE = 2.4 AC

BENCHMARK DESCRIPTIONS

DATUM: GPS-DERIVED NAVD'88

BENCHMARK#: 100
DESCRIPTION: TOP OF THE NORTH BOLT IN A LIGHT POLE BASE. LOCATED ON THE EAST SIDE OF WASHTENAW AVENUE ACROSS FROM BUILDING #2300 WASHTENAW AVENUE.
COORDINATES: N= 278135 E= 13300089 ELEV= 893.540

BENCHMARK#: 101
DESCRIPTION: SET CHISELED X IN THE NORTH RIM OF A BELL MANHOLE. LOCATED IN THE SIDEWALK ON THE EAST SIDE OF WASHTENAW AVENUE BEHIND HOUSE #1615 KEARNEY ROAD.
COORDINATES: N= 278586 E= 13299662 ELEV= 911.611

BENCHMARK#: 102
DESCRIPTION: SET X ON THE NORTHEAST EDGE OF A METAL LIGHT POLE BASE. LOCATED ON THE EAST SIDE OF WASHTENAW AVENUE BEHIND HOUSE #2360 ADARE ROAD.
COORDINATES: N= 279024 E= 13299238 ELEV= 924.404

BENCHMARK#: 103
DESCRIPTION: SET MAG NAIL IN THE NORTH SIDE OF A CONCRETE LIGHT BASE. LOCATED ON THE EAST SIDE OF WASHTENAW AVENUE ±18FT SOUTHEAST OF THE SOUTH DRIVEWAY OF HOUSE #2117 WASHTENAW AVENUE.
COORDINATES: N= 279363 E= 13298909 ELEV= 931.983

BENCHMARK#: 104
DESCRIPTION: SET BENCHTIE IN THE WEST FACE OF A UTILITY POLE. LOCATED AT THE SOUTHWEST CORNER OF WASHTENAW AVENUE AND TUOMY ROAD.
COORDINATES: N= 279613 E= 13298668 ELEV= 928.468

BENCHMARK#: 105
DESCRIPTION: SET CHISELED X IN THE NORTH RIM OF A BELL MANHOLE. LOCATED IN THE SIDEWALK ON THE EAST SIDE OF WASHTENAW AVENUE ±12FT NORTHWEST OF THE ENTRANCE TO BUILDING #2015 WASHTENAW AVENUE.
COORDINATES: N= 279940 E= 13298358 ELEV= 909.582

BENCHMARK#: 106
DESCRIPTION: SET MAG NAIL IN THE EAST SIDE OF THE CONCRETE BASE OF A CROSSWALK SIGNAL POST. LOCATED AT THE SOUTHEAST CORNER OF WASHTENAW AVENUE AND DEVONSHIRE ROAD.
COORDINATES: N= 280301 E= 13298009 ELEV= 888.667

BENCHMARK#: 107
DESCRIPTION: TOP OF BOLT IN WATER SHUT OFF VALVE. LOCATED AT THE FACE OF WALK ON THE EAST SIDE OF WASHTENAW AVENUE IN FRONT OF BUILDING #1917 WASHTENAW AVENUE ±241FT NORTHWEST OF THE CENTERLINE OF BERKSHIRE ROAD.
COORDINATES: N= 280598 E= 13297723 ELEV= 894.198

BENCHMARK#: 109
DESCRIPTION: TOP OF THE NORTH BOLT IN A LIGHT POLE BASE. LOCATED ON THE EAST SIDE OF WASHTENAW AVENUE IN FRONT OF #1833 WASHTENAW AVENUE.
COORDINATES: N= 281015 E= 13297322 ELEV= 900.472

BENCHMARK#: 110
DESCRIPTION: SET BENCHTIE IN THE SOUTHWEST FACE OF A UTILITY POLE. LOCATED ON THE EAST SIDE OF WASHTENAW AVENUE IN THE MEDIAN OF VINEWOOD BOULEVARD.
COORDINATES: N= 281338 E= 13297008 ELEV= 889.918

BENCHMARK#: 111
DESCRIPTION: FOUND RAILROAD SPIKE IN THE SOUTHEAST FACE OF A UTILITY POLE. LOCATED ON THE EAST SIDE OF WASHTENAW AVENUE IN FRONT OF BUILDING #1735 WASHTENAW AVENUE.
COORDINATES: N= 281635 E= 13296725 ELEV= 883.231

BENCHMARK#: 112
DESCRIPTION: SET BENCHTIE IN THE SOUTHWEST FACE OF A UTILITY POLE. LOCATED AT THE SOUTHEAST CORNER OF WASHTENAW AVENUE AND HILL STREET.
COORDINATES: N= 282130 E= 13296254 ELEV= 883.019

BENCHMARK#: 113
DESCRIPTION: SET BENCHTIE IN THE SOUTHWEST FACE OF A UTILITY POLE. LOCATED ON THE EAST SIDE OF WASHTENAW AVENUE IN FRONT OF BUILDING #1507 WASHTENAW AVENUE.
COORDINATES: N= 282642 E= 13295763 ELEV= 886.605

BENCHMARK#: 114
DESCRIPTION: TOP OF THE SOUTHWEST BOLT IN THE BASE OF A TRAFFIC SIGNAL POLE. LOCATED IN THE SOUTHEAST QUADRANT OF WASHTENAW AVENUE AND SOUTH UNIVERSITY AVENUE.
COORDINATES: N= 283065 E= 13295383 ELEV= 879.522

CITY OF ANN ARBOR STANDARDS USED

DRAWING NO.	SHEET TITLE
SD-GU-1	STANDARD CASTING SCHEDULE
SD-GU-2	SPECIAL STRUCTURE COVER WATER
SD-GU-3	SPECIAL STRUCTURE COVER STORM
SD-GU-4	SPECIAL STRUCTURE COVER SANITARY
SD-GU-5A/5B	STRUCTURE COVER ADJUST
SD-GU-6	VALVE AND MONUMENT BOX ADJUST
SD-GU-7	MANHOLE AND VALVE/MONUMENT BOX LOWERING
SD-GU-8	STRUCTURE PLATE
SD-SN-4	SANITARY LEAD RELOCATION
SD-W-1	FIRE HYDRANT ASSEMBLY
SD-W-2	THRUST BLOCK
SD-W-3	PRECAST GATE WELL
SD-W-7	POLYETHYLENE ENCASEMENT
SD-ST-6	BLOCK SINGLE INLET
SD-CG-1	BARRIER CURB AND GUTTER
SD-DS-1	TYPE M DRIVE APPROACH
SD-DS-4	SIDEWALK AND CURB & GUTTER JOINTS
SD-DS-5	SIDEWALK CROSS SECTION
SD-SESC-1	INLET PROTECTION
SD-SESC-3	SILT FENCE
SD-SESC-4	MULCH BLANKET
SD-SESC-6	STANDARD SESC NOTES
SD-SESC-7	SEQUENCE OF SESC MEASURES
SD-TD-1	UTILITY TRENCH - TYPE 1
SD-TD-2	UTILITY TRENCH - TYPE 2
SD-TD-4.1/4.2	UTILITY TRENCH SURFACE RESTORATION
SD-TD-5	TYPICAL EDGE DRAIN TRENCH

MDOT STANDARDS USED

DRAWING NO.	SHEET TITLE
R-15-G	COVER K
R-18-F	COVER Q
R-28-K	CURB RAMP AND DETECTABLE WARNING DETAILS
R-29-J	DRIVEWAY OPENINGS & APPROACHES, AND CONCRETE SIDEWALK
R-83-C	UTILITY TRENCHES

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 (STREAM)
RIGHT-OF-WAY PERMIT*	CITY OF ANN ARBOR CUSTOMER SERVICE (STREAM)

* 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
MDOT RIGHT-OF-WAY CONSTRUCTION PERMIT	MICHIGAN DEPARTMENT OF TRANSPORTATION

CONTACT INFORMATION

PUBLIC UTILITIES	OWNER	CONTACT
WATER		
SANITARY		
STORM	CITY OF ANN ARBOR PUBLIC WORKS W.R. WHEELER SERVICE CENTER 4251 STONE SCHOOL ROAD ANN ARBOR, MI 48108	(734) 794-6350
FORESTRY		
SIGNS		MARK MORENO
SIGNALS		(734) 794-6361
STREET LIGHTS		
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	MARC GOODELL (313) 405-0574
FIBER OPTIC	MCI 2800 N. GLENFILLE ROAD RICHARDSON, TX 75082	DEAN BOYERS (972) 729-6016
FIBER OPTIC	WINDSTREAM 1295 S LINDEN ROAD, SUITE B FLINT, MI 48532	GREG SERICH (810) 244-3500
STREET LIGHTING	DTE ENERGY 8001 HAGGERTY ROAD BELLEVILLE, MI 48111	LANCE ALLEY (734) 397-4188

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

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
5	–	–	–	–
4	–	–	–	–
3	FINAL SUBMITTAL	11/17/2026	AJ	AL
2	90% SUBMITTAL	10/15/2026	AJ	AL/DD
1	70% SUBMITTAL	02/20/2026	AJ/RD	AL/CH

CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
P.O. BOX 8647
ANN ARBOR, MI 48107-8647
734-794-6430
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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

WASHTENAW AVE. WATER MAIN REPLACEMENT PROJECT

NOTE SHEET

SCALE: NTS

DRAWING No. 2025-015-2

SHEET No. 2 OF 44

J:\AA\Design\AA25002 - Washtenaw Ave Watermain\Ann Arbor Cads\Plan Production\AA25002_NOT.dwg - _a2 standard bw.stb - Plot Date: 11/12/2026 3:58:10 PM

EXISTING LEGEND

EX = EXISTING

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

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

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

PROPOSED LEGEND

PROP = PROPOSED

- HYDRANT (PLAN)
- WATER GATE WELL
- REDUCER
- WATER GATE VALVE
- WATER STOP BOX
- WATER VAULT
- INLET
- DOUBLE INLET
- INLET JUNCTION CHAMBER
- ROUND CATCH BASIN
- STORM MANHOLE
- DRAIN ARROW
- FLARED END SECTION
- SANITARY MANHOLE
- CLEAN-OUT
- BARREL
- SIGN
- PUSH BUTTON
- HAND HOLE

- WATER MAIN
- STORM SEWER
- SANITARY SEWER
- FIBER OPTIC
- ELECTRICAL
- CENTERLINE OF DITCH
- CENTERLINE OF ROAD
- FENCE
- GRAVEL
- SILT FENCE
- PROTECTIVE FENCE
- GUARDRAIL
- LOT/UNIT
- CURB
- TEMPORARY GRADING PERMIT
- CONTOUR MAJOR
- CONTOUR MINOR
- WATER EASEMENT
- STORM EASEMENT
- SANITARY EASEMENT
- R.O.W.
- LIMITS OF CONSTRUCTION
- LIMIT OF GRADING
- STONE WALL

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

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

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
5	--	--	--	--
4	--	--	--	--
3	FINAL SUBMITTAL	11/17/2026	AJ	AL
2	90% SUBMITTAL	10/15/2026	AJ	AL/DD
1	70% SUBMITTAL	02/20/2026	AJ/RD	AL/CH

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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

WASHTENAW AVE. WATER MAIN REPLACEMENT PROJECT

LEGEND SHEET

SCALE : NTS

DRAWING No. 2025-015-3

SHEET No. 3 OF 44

J: \AA \Design \AA25002 – Washtenaw Ave Watermain \Ann Arbor Cads \Plan Production \AA25002_LEG.dwg – _o2 standard bw.stb – Plot Date: 11/12/2026 3:59:16 PM

EXISTING STORM SEWER STRUCTURE TABLE

STRUCTURE NAME	STRUCTURE TYPE	RIM ELEV.	INVERT ELEVATION, SIZE & DIRECTION
STM–58	4' Inlet Junction	888.02	12" SE 884.04
88–52990	4' Inlet Junction	893.82	12" SW 889.84
88–55229	4' Inlet Junction	909.92	12" NE 905.94
88–55222	4' Inlet Junction	910.20	12" SW 906.22
88–55228	4' Inlet Junction	918.07	12" NE 914.09
88–55223	4' Inlet Junction	918.27	12" SW 914.29
88–55262	4' Inlet Junction	923.01	12" NE 919.03
88–55224	4' Inlet Junction	923.21	12" SW 919.23
88–55227	4' Inlet Junction	928.58	12" NE 924.60
88–55226	4' Inlet Junction	929.30	12" NE 925.32
88–53251	4' Inlet Junction	896.76	12" NE 892.78
88–52986	4' Inlet Junction	886.75	12" SW 882.77
88–63880	4' Inlet Junction	876.25	12" N 872.27
88–53001	4' Inlet Junction	876.27	12" W 872.29
88–51275	4' Inlet Junction	876.68	12" S 872.70
88–51538	4' Inlet Junction	877.07	12" NW 873.09 12" SE 872.86
88–63726	4' MH	877.14	24" W 871.69
88–63878	4' Inlet Junction	877.76	12" NE 873.78
88–52980	4' Inlet Junction	877.83	12" NW 873.85
88–63881	4' Inlet Junction	877.84	12" SW 873.86
88–52981	4' Inlet Junction	877.89	12" SE 873.91
88–63877	4' Inlet Junction	878.16	12" E 874.18
88–53002	4' Inlet Junction	878.34	12" NE 874.36
88–63879	4' Inlet Junction	878.84	12" NW 874.86
88–53000	4' Inlet Junction	879.29	12" W 875.31

EXISTING STORM SEWER STRUCTURE TABLE

STRUCTURE NAME	STRUCTURE TYPE	RIM ELEV.	INVERT ELEVATION, SIZE & DIRECTION
88–53061	4' Inlet Junction	879.29	12" N 875.31
88–56485	4' MH	879.85	12" SW 874.06 24" NW 874.40 24" SE 874.27
88–53003	4' Inlet Junction	880.04	12" NE 876.06
88–52979	4' Inlet Junction	882.65	12" NW 878.67
88–53207	4' Inlet Junction	882.69	12" NW 878.71
88–52999	4' Inlet Junction	883.06	12" N 879.08
88–52978	4' Inlet Junction	883.19	12" SE 879.21
88–51061	4' Inlet Junction	884.08	12" SE 880.10 12" W 878.36
88–51530	4' Inlet Junction	884.66	12" W 880.68
88–64402	4' Inlet Junction	885.00	12" NE 881.02
88–55232	4' MH	885.46	18" NW 883.81
88–64466	4' Inlet Junction	886.03	12" SW 879.13 12" NW 882.05
88–52985	4' Inlet Junction	886.12	12" S 884.47
88–55500	4' Inlet Junction	887.21	12" NW 883.23
88–52987	4' Inlet Junction	887.27	12" E 883.29
88–52988	4' Inlet Junction	887.35	12" N 883.37
88–52996	4' Inlet Junction	887.49	8" E 883.90 12" W 883.50
88–52995	4' Inlet Junction	888.27	12" W 884.29
88–52984	4' Inlet Junction	888.86	12" NW 884.61
88–52994	4' Inlet Junction	889.28	12" W 885.30
88–55498	4' Inlet Junction	889.32	N.S.
88–52997	4' Inlet Junction	890.06	12" N 886.08
88–56509	4' Inlet Junction	890.80	12" W 886.82
88–55220	4' Inlet Junction	891.07	12" SW 889.42
88–55231	4' Inlet Junction	891.07	12" NE 889.42

* N.S. = NOT SURVEYED

EXISTING STORM SEWER STRUCTURE TABLE

STRUCTURE NAME	STRUCTURE TYPE	RIM ELEV.	INVERT ELEVATION, SIZE & DIRECTION
88–51532	4' Inlet Junction	891.76	12" NW 887.78
88–52998	4' Inlet Junction	892.13	12" N 888.15
88–52989	4' Inlet Junction	892.70	12" SE 887.95
88–56510	4' MH	892.71	8" SE 885.98 12" NE 888.40
88–53255	4' Inlet Junction	893.23	12" SW 891.58
88–51568	4' Inlet Junction	893.37	12" SE 888.47
88–51531	4' Inlet Junction	893.37	12" NW 889.39
88–53256	4' Inlet Junction	893.61	12" SW 891.96
88–52992	4' Inlet Junction	894.51	12" NE 892.64
88–52993	4' Inlet Junction	894.54	12" S 892.89
88–52991	4' Inlet Junction	894.76	12" W 890.78
88–55230	4' Inlet Junction	895.89	12" NE 894.24
88–52907	4' Inlet Junction	896.38	12" SE 891.56
88–55221	4' Inlet Junction	896.96	12" SW 895.31
88–52909	4' Inlet Junction	897.39	12" S 893.41
88–52908	4' Inlet Junction	897.82	12" SW 893.84
88–53252	4' Inlet Junction	897.94	N.S.
88–65398	4' Inlet Junction	905.63	12" SE 903.98 12" NW 901.59
88–55344	4' Inlet Junction	928.52	12" S 925.52
88–55225	4' Inlet Junction	928.09	12" SW 924.11
92–59748	4' MH	874.42	30" N 868.40 24" E 867.95 36" SW 867.72
92–62730	4' MH	874.87	24" N 870.62 12" E 869.99 12" NW 870.56 24" S 869.50
92–63782	4' MH	877.19	12" N 872.62 15" NW 872.62 15" SE 872.62
92–58283	4' MH	877.45	24" W 872.00 24" E 872.00
92–62754	4' MH	877.56	12" SE 873.25

* N.S. = NOT SURVEYED

EXISTING STORM SEWER STRUCTURE TABLE

STRUCTURE NAME	STRUCTURE TYPE	RIM ELEV.	INVERT ELEVATION, SIZE & DIRECTION
92–58319	4' MH	877.71	18" NE 872.48 12" E 872.68 12" S 872.35 24" W 872.26
92–58291	4' MH	877.82	12" NW 873.24 12" SE 873.51 18" SW 872.95
92–58274	4' MH	877.93	24" W 872.48
92–59747	4' MH	877.93	12" NW 873.17 24" E 870.77 24" W 870.60 30" S 870.60 12" SE 873.62
92–59742	4' MH	878.05	12" NW 873.74 12" SW 873.74
92–63783	4' MH	878.48	12" W 874.17 12" SE 874.00
92–59744	4' MH	879.06	15" NW 872.17 12" SE 874.75 12" NE 870.89 24" W 870.89 15" SE 872.17 24" E 870.89
92–63035	4' MH	879.75	24" NW 874.30 12" SW 874.18
92–58310	4' MH	881.87	18" NE 876.24 18" E 875.73 18" SW 877.02 24" W 874.82
92–58289	4' MH	882.14	15" NE 877.57 15" SW 877.55
92–58311	4' MH	882.25	12" S 877.94 12" SE 877.74 12" E 877.39 18" W 876.86
92–58292	4' MH	882.33	24" SE 875.25 18" NE 877.48
92–62750	4' MH	882.41	18" NE 877.56
92–58290	4' MH	883.03	12" NW 878.72 15" NE 878.18 12" SE 878.57 18" SW 877.88
92–58286	4' MH	883.14	15" NW 876.33 12" NE 878.83 12" SW 876.75
92–62543	4' MH	883.16	18" SW 877.16 18" NE 877.27 12" NW 877.63 12" SE 878.85
92–58312	4' MH	883.34	12" E 879.03 12" NW 878.72 12" SE 878.73
92–62542	4' MH	884.48	12" E 880.06 12" NW 880.17
92–58633	4' MH	886.48	12" E 883.88 12" W 883.88 12" SE 884.83
92–58738	4' MH	888.08	12" SE 881.92 12" NW 881.92 12" E 883.77 12" SE 883.10
92–58739	4' MH	888.87	12" SW 880.83 12" SE 880.83 12" NW 880.83 12" NE 882.74 12" W 883.13 12" S 883.54 12" SE 884.56
92–50709	4' MH	889.32	18" NW 887.67 12" NE 887.65 12" SW 888.67 18" SE 887.55
92–62541	4' MH	890.28	12" SE 885.97 8" NW 885.98
92–63050	4' MH	890.51	12" NW 879.73 12" E 881.42 12" E 881.42 12" S 886.20 12" SE 881.42
92–58728	4' MH	891.32	15" SW 889.39 15" NW 889.41

EXISTING STORM SEWER STRUCTURE TABLE

STRUCTURE NAME	STRUCTURE TYPE	RIM ELEV.	INVERT ELEVATION, SIZE & DIRECTION
92–58754	4' MH	891.54	12" SE 890.43 12" NW 889.89 12" NE 890.85 12" NE 891.04 12" SW 891.55
92–065831	4' MH	892.64	12" E 883.98 12" NW 888.33
92–58743	4' MH	893.02	12" SE 885.90 12" NW 887.75 12" NE 888.71 12" E 888.71 12" W 883.88
92–50708	4' MH	893.90	15" NW 892.25 12" NE 892.49 12" SW 893.63 18" SE 891.93
92–58727	4' MH	895.66	15" SE 890.35 12" N 891.10 12" N 890.68 12" NE 890.99 12" SW 891.35 12" NE 890.99
92–58753	4' MH	895.95	12" NE 894.32 12" NW 894.30
92–67469	4' MH	898.68	12" SW 892.08 12" NE 893.23
92–58755	4' Inlet Junction	899.90	12" SE 898.25 12" SW 896.39
92–50707	4' MH	905.73	15" NW 904.08 12" NE 904.41 12" SW 905.43 15" SE 904.05
92–50706	4' MH	913.69	12" NE 912.04 12" SW 913.73 12" NW 911.71 15" SE 911.76
92–58761	4' MH	918.89	12" NW 917.24 12" NE 917.58 12" SW 918.53 12" SE 917.12
92–58760	4' MH	923.91	12" NW 922.26 12" NE 922.43 12" SW 923.29 12" SE 922.18
92–58759	4' MH	925.03	12" NW 923.38 12" SE 923.37 12" NE 925.89
92–58758	4' MH	926.18	12" N 924.53 12" SW 925.22 12" SE 925.54
97–50330	Null Structure	876.68	24" NW 874.27 24" SE 874.27 24" S 874.27

Know what's below. Call before you dig.

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
5	–	–	–	–
4	–	–	–	–
3	FINAL SUBMITTAL	11/17/2026	AJ	AL
2	90% SUBMITTAL	10/15/2026	AJ	AL/DD
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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

WASHTENAW AVE. WATER MAIN REPLACEMENT PROJECT

EXISTING STRUCTURE TABLES - 1

SCALE : NTS

DRAWING No. 2025-015-4

SHEET No. 4 OF 44

J: \AA \Design \AA25002 – Washtenaw Ave Watermain \Ann Arbor Cads \Plan Production \AA25002_ExUtl.dwg – _o2 standard bw.stb – Plot Date: 11/12/2026 4:02:11 PM

SANITARY SEWER STRUCTURE TABLE

STRUCTURE NAME	STRUCTURE TYPE	RIM ELEV.	INVERT ELEVATION, SIZE & DIRECTION
71-69006	4' MH	881.31	8" W 870.25
71-69010	4' MH	884.64	8" NW 872.99 8" SE 873.04
71-69015	4' MH	892.45	8" NE 884.52 8" SE 883.02
71-69016	4' MH	891.62	8" NW 883.05
71-69017	4' MH	884.34	8" NW 874.53 8" SW 874.72 8" SE 874.60
71-69039	4' MH	882.33	8" E 874.45 8" W 874.45 8" NE 874.93
71-69040	4' MH	883.97	8" SE 875.48 8" W 875.44
71-69041	4' MH	882.87	8" NW 874.43 8" NE 875.41
71-69042	4' MH	878.09	10" NW 869.39 8" NE 870.17 8" SE 869.41
71-69043	4' MH	877.03	10" NW 867.38 8" S 867.27 10" SE 867.41
71-69044	4' MH	887.15	8" NW 881.64 8" E 881.64 8" SE 881.56
71-69045	4' MH	888.76	8" NW 879.24 8" W 879.96 8" S 879.36
71-69066	4' MH	886.59	8" NW 883.02 8" NE 882.82 8" W 877.96 10" SE 866.63
71-69069	4' MH	877.59	10" NW 868.95 8" NE 870.55 10" SE 868.99
71-69300	4' MH	889.32	8" W 883.10
71-69423	4' MH	894.72	12" NE 888.62 8" SE 888.57
71-69424	4' MH	893.34	8" NW 885.35 8" SE 884.04
71-69425	4' MH	891.40	8" NW 882.33 8" SE 882.24 8" NE 882.98
71-69426	4' MH	887.69	8" NW 882.24 8" SW 875.60 8" SE 875.60
71-69427	4' MH	890.98	8" NW 875.92 8" E 887.41 8" SE 886.92

SANITARY SEWER STRUCTURE TABLE

STRUCTURE NAME	STRUCTURE TYPE	RIM ELEV.	INVERT ELEVATION, SIZE & DIRECTION
71-69449	4' MH	907.16	8" NW 897.33 8" SE 897.35
71-69450	4' MH	895.21	8" NW 886.92 8" SE 887.33
71-69451	4' MH	917.56	8" NW 897.35 8" SE 907.23
71-69460	4' MH	926.81	8" N 915.16 8" SE 915.88
71-69461	4' MH	925.98	8" NW 914.91 8" S 915.16 8" SE 915.22
71-69474	4' MH	931.08	8" NW 916.22 8" SE 916.33
71-69475	4' MH	930.16	8" NW 916.33 8" SE 918.24
71-69476	4' MH	927.94	8" NW 917.31 8" SW 917.36
71-70332	4' MH	879.82	8" SE 872.61 8" W 876.25 8" E 870.20 8" NW 872.61
71-073230	4' MH	893.60	8" SW 892.36
71-073236	4' MH	896.49	8" NE 891.38 12" SW 891.38
71-073237	4' MH	894.72	12" NW 888.90 12" SW 888.88
71-073238	4' MH	896.22	12" NE 890.91 12" SE 890.72

EXISTING WATER STRUCTURE TABLE

STRUCTURE NAME	STRUCTURE SIZE	RIM ELEV.
01-07382	6"	877.60
01-00130	6"	876.85
01-02172	6"	877.97
01-10143	6"	882.83
01-07398	6"	880.37
SV-54347	6"	882.05
01-00297	6"	882.78
01-07397	6"	880.65
01-08224	6"	887.34
01-00635	6"	890.67
01-07745	6"	896.26
01-07746	6"	894.68
01-10144	6"	891.22
01-00207	6"	891.01
01-10351	6"	888.01
01-02163	6"	887.35
01-00111	6"	887.02
01-10272	12"	905.21
01-04328	6"	905.89
01-02164	6"	917.85

EXISTING WATER STRUCTURE TABLE

STRUCTURE NAME	STRUCTURE SIZE	RIM ELEV.
01-10126	6"	925.93
01-02176	6"	930.92
01-03815	6"	926.33

J:\AA\Design\AA25002 - Washtenaw Ave Watermain\Ann Arbor Cads\Plan Production\AA25002_ExUtl.dwg - _02 standard bw.stb - Plot Date: 11/12/2026 4:02:35 PM

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

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
5	–	–	–	–
4	–	–	–	–
3	FINAL SUBMITTAL	11/17/2026	AJ	AL
2	90% SUBMITTAL	10/15/2026	AJ	AL/DD
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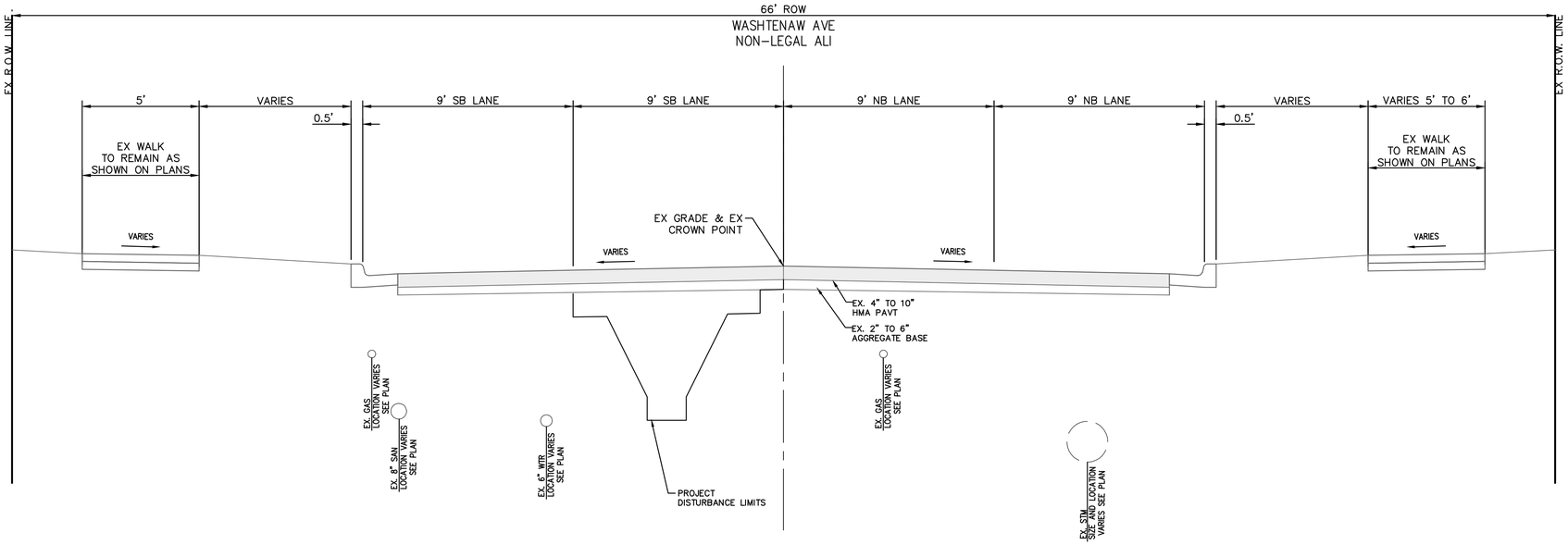
WASHTENAW AVE. WATER MAIN REPLACEMENT PROJECT

EXISTING STRUCTURE TABLES - 2

SCALE : NTS

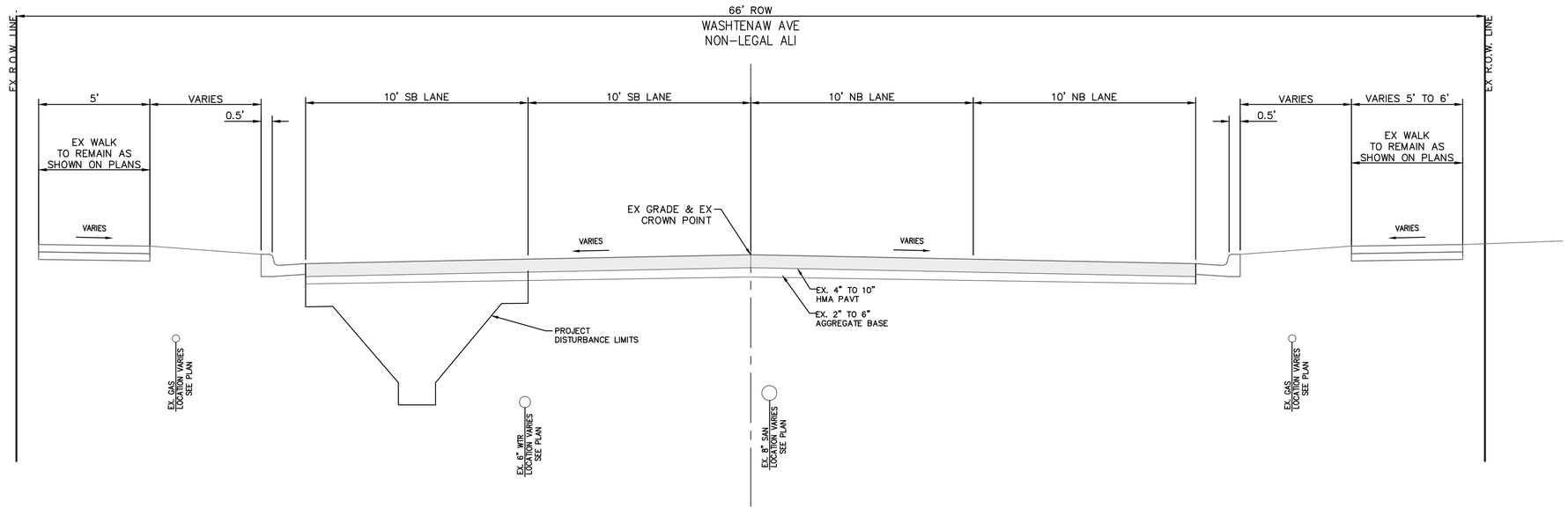
DRAWING No.
2025-015-5

SHEET No.
5 OF 44



EXISTING WASHTENAW AVE TYPICAL SECTION

SECTION APPLIES TO:
P.O.B. STA 10+50 TO STA 58+50



EXISTING WASHTENAW AVE TYPICAL SECTION

SECTION APPLIES TO:
STA 58+50 TO STA 61+04

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
5	–	–	–	–
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WASHTENAW AVE. WATER MAIN REPLACEMENT PROJECT

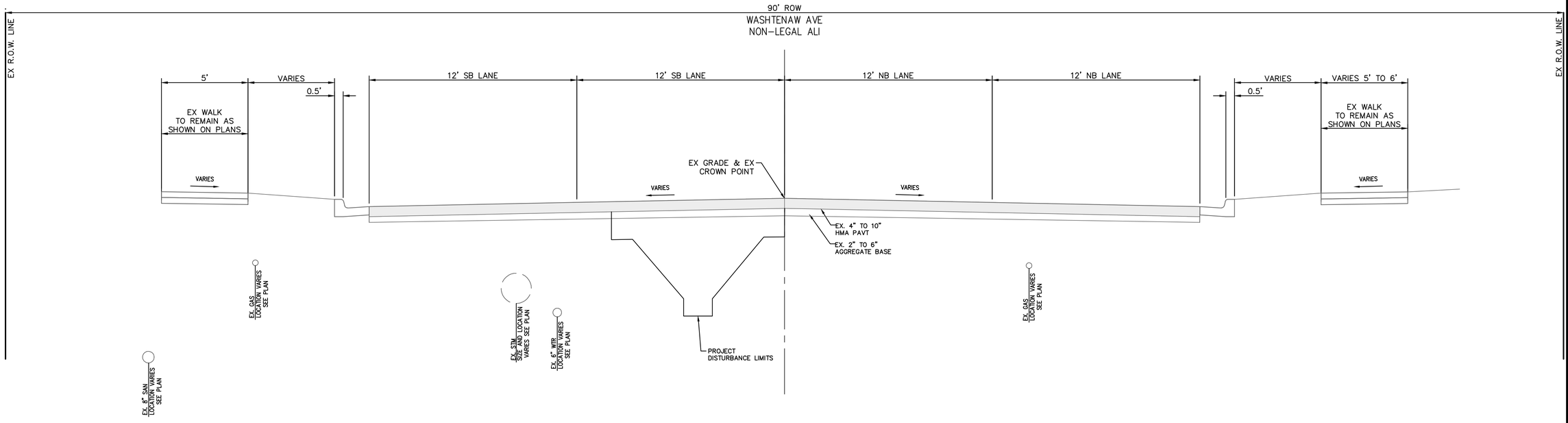
TYPICAL SECTION - 1

SCALE PLAN: 1" = 3'

DRAWING No.
2025-015-6

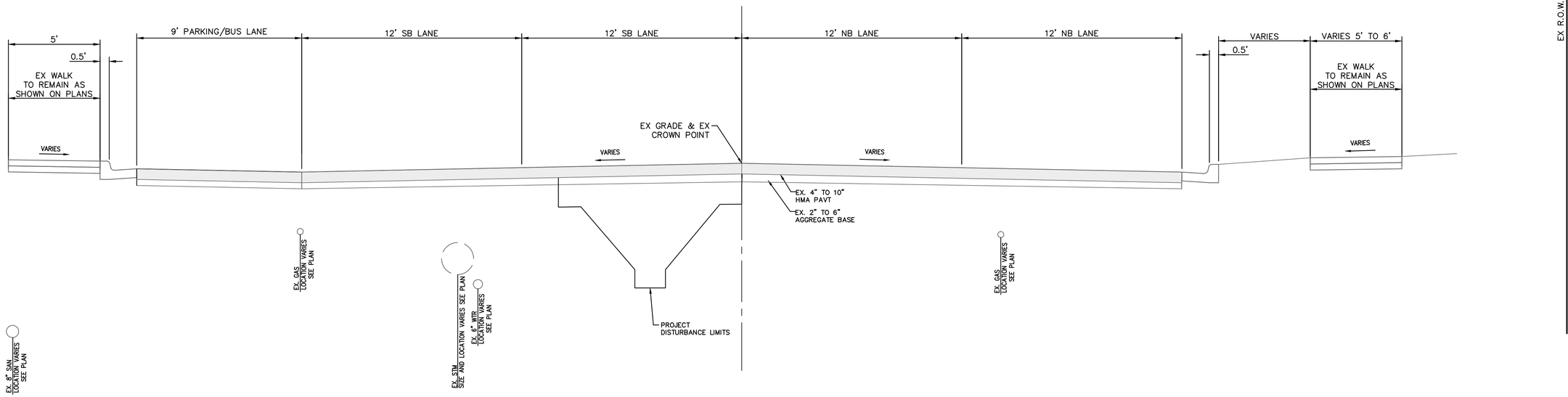
SHEET No.
6 OF 44

J: \AA \Design \AA25002 – Washtenaw Ave Watermain \Ann Arbor Cads \Plan Production \AA25002_TYP.dwg Dwg Created: 28-Sep-26 – _a2 standard bw.stb – Plot Date: 12-Nov-26



EXISTING WASHTENAW AVE TYPICAL SECTION

SECTION APPLIES TO:
STA 61+04 TO STA 64+94



EXISTING WASHTENAW AVE TYPICAL SECTION

SECTION APPLIES TO:
STA 64+94 TO P.O.E. STA 67+50

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

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WASHTENAW AVE. WATER MAIN REPLACEMENT PROJECT

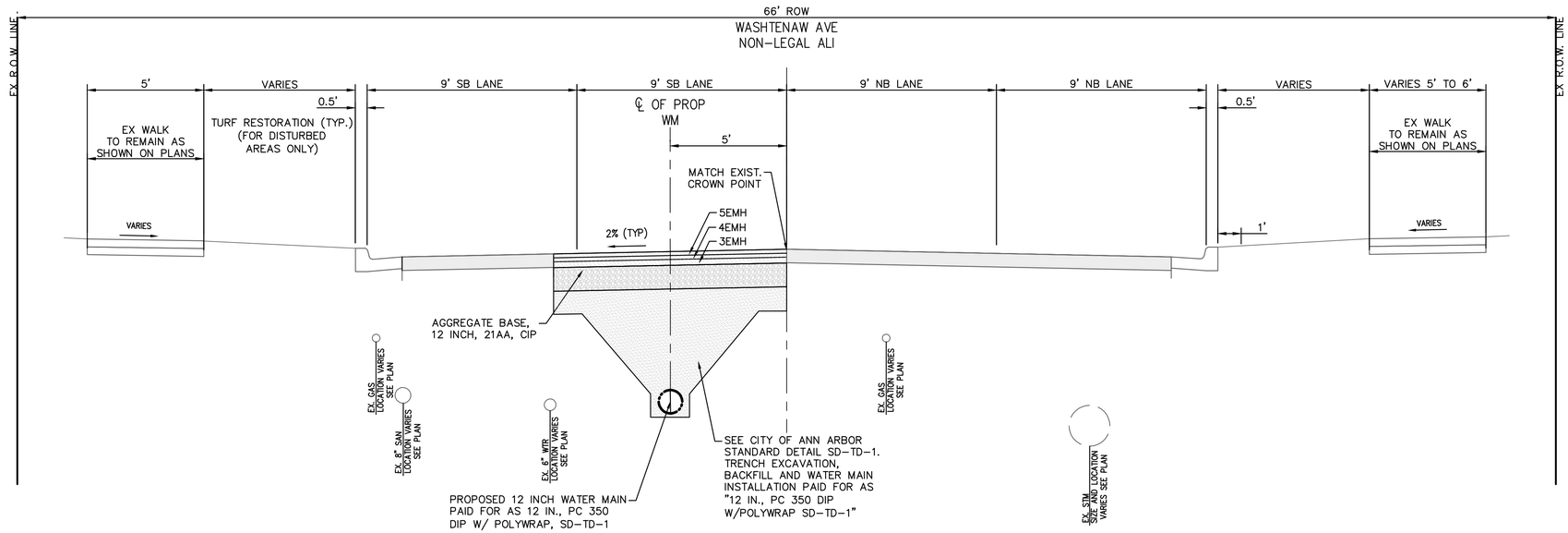
TYPICAL SECTION - 2

SCALE PLAN: 1" = 3'

DRAWING No. 2025-015-7

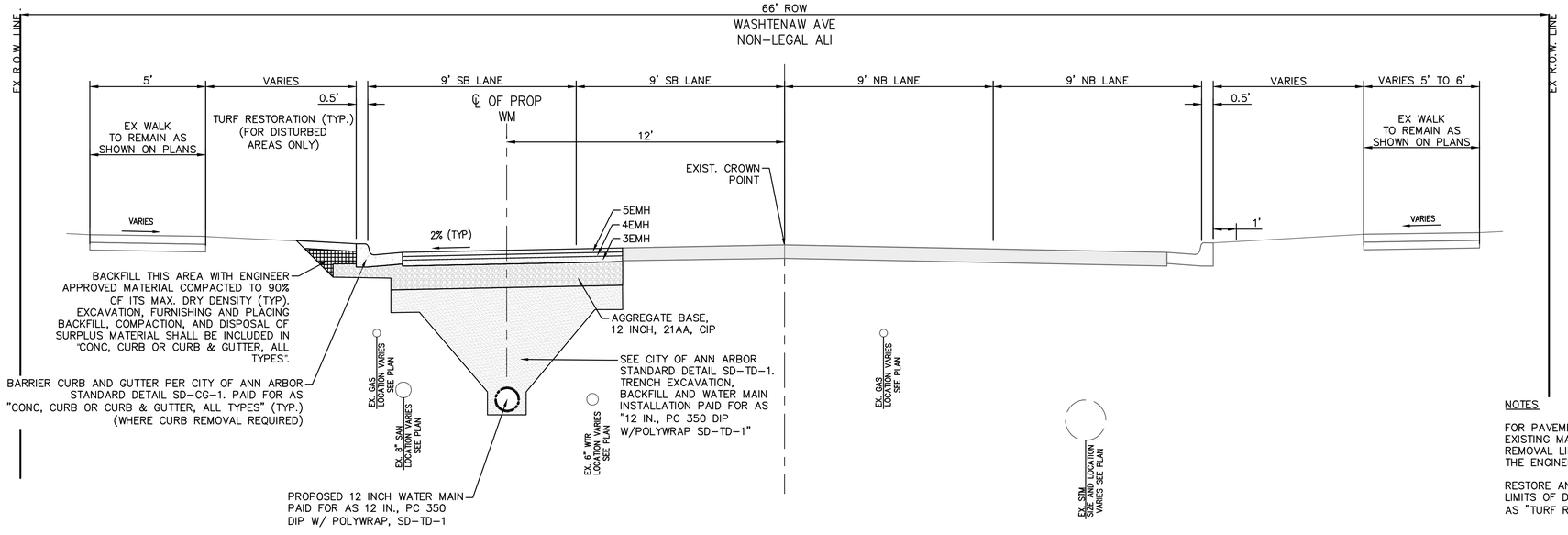
SHEET No. 7 OF 44

J:\AA\Design\AA25002 - Washtenaw Ave Watermain\Ann Arbor Cads\Plan Production\AA25002_TYP.dwg Dwg Created: 28-Sep-26 - _a2 standard bw.stb - Plot Date: 12-Nov-26



PROPOSED WASHTENAW AVE TYPICAL SECTION

SECTION APPLIES TO:
P.O.B. STA 10+50 TO STA 29+69



PROPOSED WASHTENAW AVE TYPICAL SECTION

SECTION APPLIES TO:
STA 29+69 TO STA 34+51

NOTES

FOR PAVEMENT REMOVALS, SAWCUT EXISTING MATERIAL FULL-DEPTH AT REMOVAL LIMITS, AS DIRECTED BY THE ENGINEER.

RESTORE AND ESTABLISH TURF TO LIMITS OF DISTURBANCE. PAID FOR AS "TURF RESTORATION"

HMA APPLICATION ESTIMATE

IDENT NO.	ITEM	RATE LBS PER SYD	PERFORMANCE GRADE	REMARKS
5EMH	HMA, 5EMH	220	64-28	MAINLINE TOP COURSE - AWI 260
4EMH	HMA, 4EMH	330	64-28	MAINLINE LEVELING COURSE
3EMH	HMA, 3EMH	330	64-28	MAINLINE BASE COURSE
	* BOND COAT	0.05-0.15 GAL		

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
5	–	–	–	–
4	–	–	–	–
3	FINAL SUBMITTAL	11/17/2026	AJ	AL
2	90% SUBMITTAL	10/15/2026	AJ	AL/DD
1	70% SUBMITTAL	02/20/2026	AJ/RD	AL/CH

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WASHTENAW AVE. WATER MAIN REPLACEMENT PROJECT

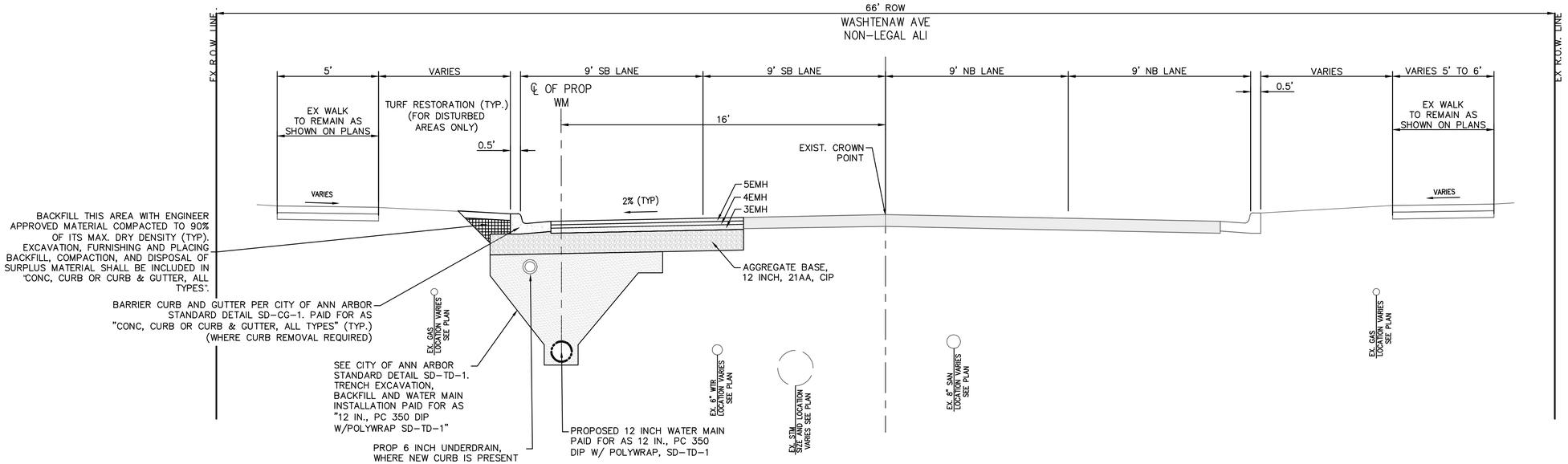
TYPICAL SECTION - 3

SCALE PLAN: 1" = 3'

DRAWING No. 2025-015-8

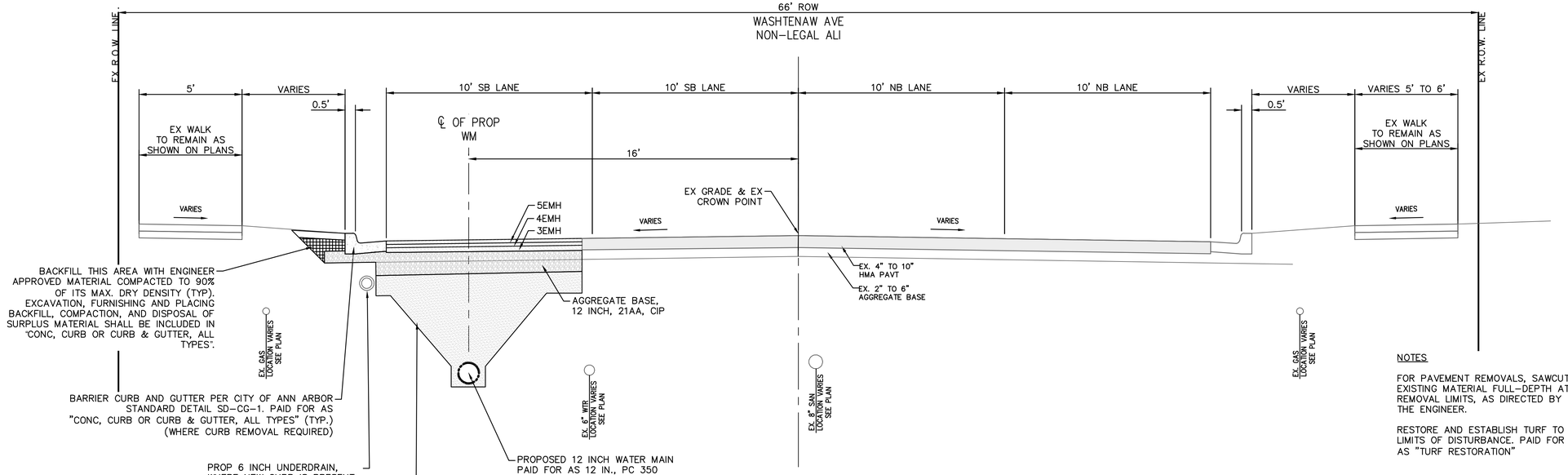
SHEET No. 8 OF 44

J:\AA\Design\AA25002 - Washtenaw Ave Watermain\Ann Arbor Cads\Plan Production\AA25002_TYP.dwg Dwg Created: 28-Sep-26 - _a2 standard bw.stb - Plot Date: 12-Nov-26



PROPOSED WASHTENAW AVE TYPICAL SECTION

SECTION APPLIES TO:
STA 34+51 TO STA 58+50



PROPOSED WASHTENAW AVE TYPICAL SECTION

SECTION APPLIES TO:
STA 58+50 TO STA 61+04

NOTES

FOR PAVEMENT REMOVALS, SAWCUT EXISTING MATERIAL FULL-DEPTH AT REMOVAL LIMITS, AS DIRECTED BY THE ENGINEER.

RESTORE AND ESTABLISH TURF TO LIMITS OF DISTURBANCE. PAID FOR AS "TURF RESTORATION"

HMA APPLICATION ESTIMATE				
IDENT NO.	ITEM	RATE LBS PER SYD	PERFORMANCE GRADE	REMARKS
5EMH	HMA, 5EMH	220	64-28	MAINLINE TOP COURSE – AWI 260
4EMH	HMA, 4EMH	330	64-28	MAINLINE LEVELING COURSE
3EMH	HMA, 3EMH	330	64-28	MAINLINE BASE COURSE
	* BOND COAT	0.05-0.15 GAL		

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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
5	–	–	–	–
4	–	–	–	–
3	FINAL SUBMITTAL	11/17/2026	AJ	AL
2	90% SUBMITTAL	10/15/2026	AJ	AL/DD
1	70% SUBMITTAL	02/20/2026	AJ/RD	AL/CH

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WASHTENAW AVE. WATER MAIN REPLACEMENT PROJECT

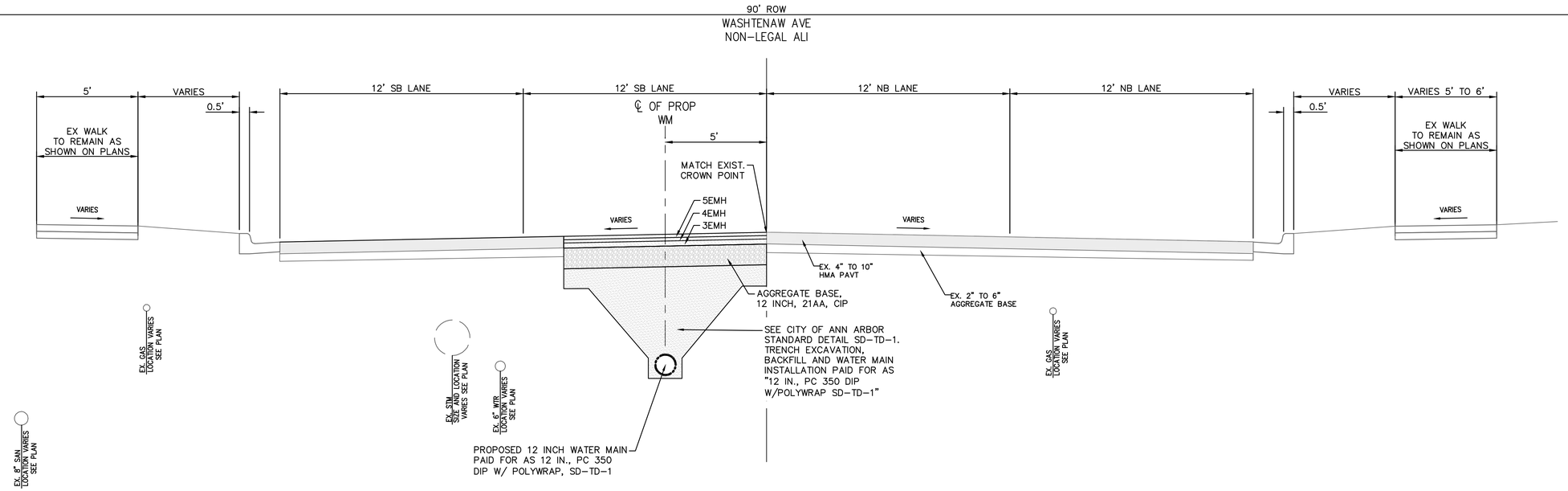
TYPICAL SECTION - 4

SCALE PLAN: 1" = 3'

DRAWING No. 2025-015-9

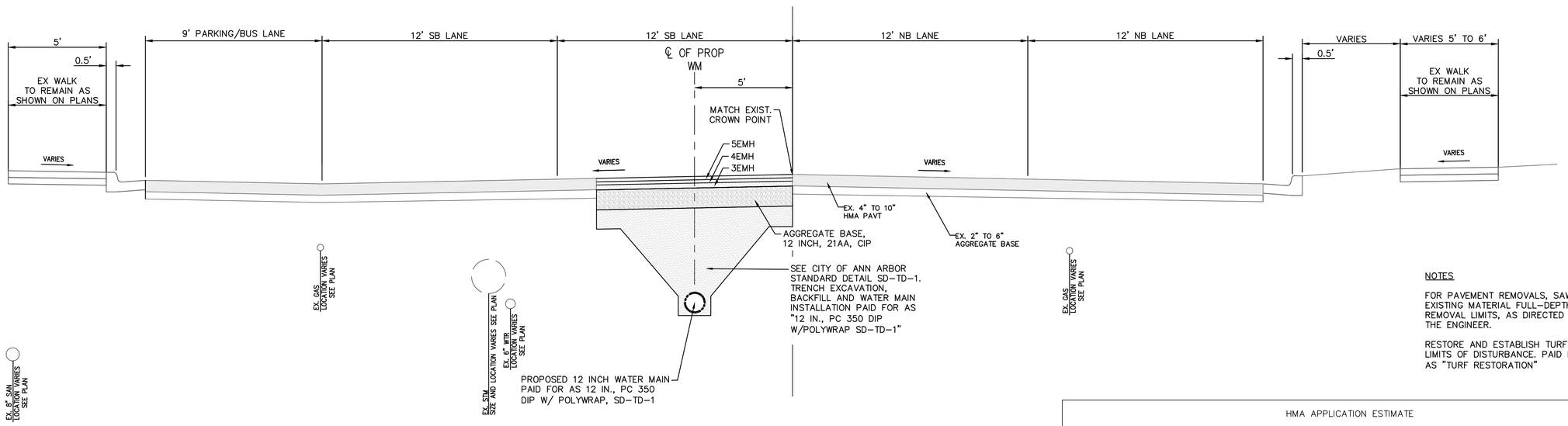
SHEET No. 9 OF 44

J: \AA \Design \AA25002 – Washtenaw Ave Watermain \Ann Arbor Cads \Plan Production \AA25002_TYP.dwg Dwg Created: 28-Sep-26 – _a2 standard bw.stb – Plot Date: 12-Nov-26



PROPOSED WASHTENAW AVE TYPICAL SECTION

SECTION APPLIES TO:
STA 61+04 TO STA 64+94



PROPOSED WASHTENAW AVE TYPICAL SECTION

SECTION APPLIES TO:
STA 64+94 TO P.O.E. STA 67+50

NOTES

FOR PAVEMENT REMOVALS, SAWCUT EXISTING MATERIAL FULL-DEPTH AT REMOVAL LIMITS, AS DIRECTED BY THE ENGINEER.

RESTORE AND ESTABLISH TURF TO LIMITS OF DISTURBANCE. PAID FOR AS "TURF RESTORATION"

HMA APPLICATION ESTIMATE				
IDENT NO.	ITEM	RATE LBS PER SYD	PERFORMANCE GRADE	REMARKS
5EMH	HMA, 5EMH	220	64-28	MAINLINE TOP COURSE - AWI 260
4EMH	HMA, 4EMH	330	64-28	MAINLINE LEVELING COURSE
3EMH	HMA, 3EMH	330	64-28	MAINLINE BASE COURSE
	* BOND COAT	0.05-0.15 GAL		

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
5	–	–	–	–
4	–	–	–	–
3	FINAL SUBMITTAL	11/17/2026	AJ	AL
2	90% SUBMITTAL	10/15/2026	AJ	AL/DD
1	70% SUBMITTAL	02/20/2026	AJ/RD	AL/CH

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WASHTENAW AVE. WATER MAIN REPLACEMENT PROJECT

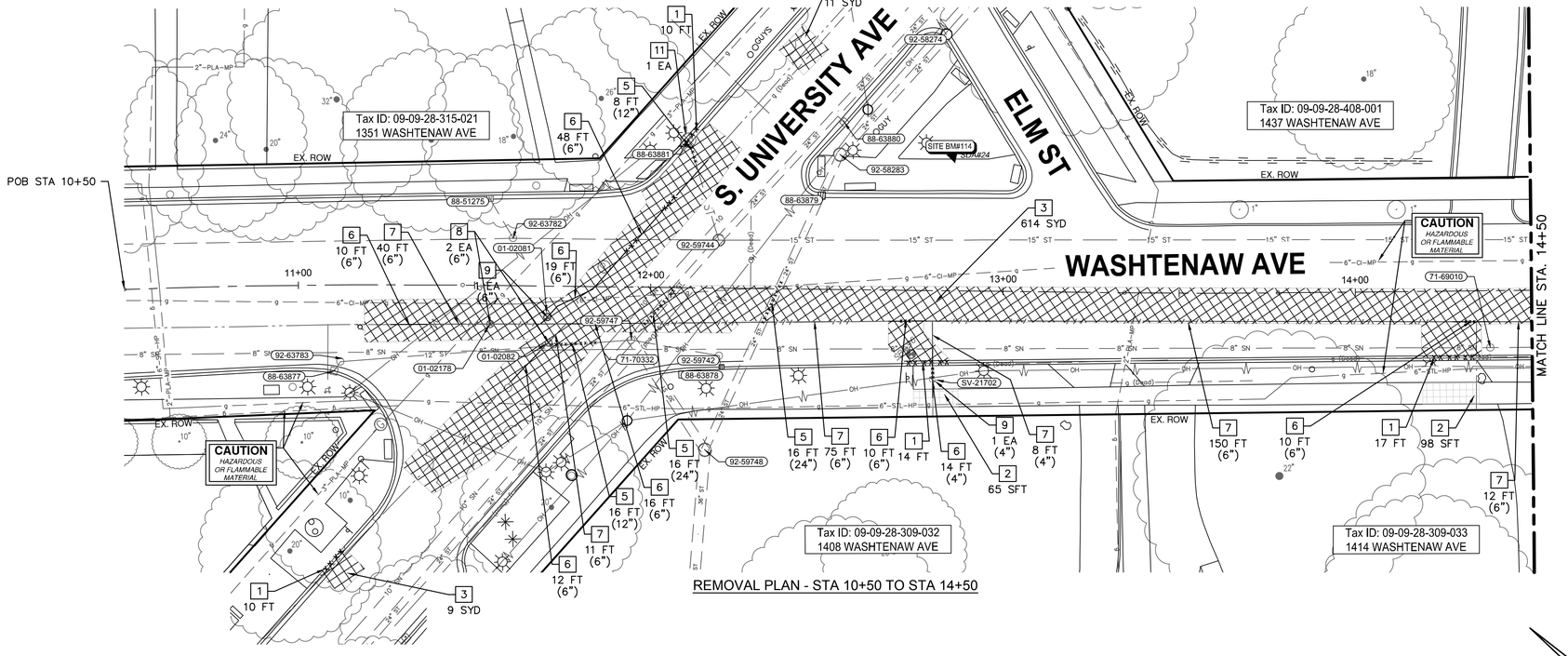
TYPICAL SECTION - 5

SCALE PLAN: 1" = 3'

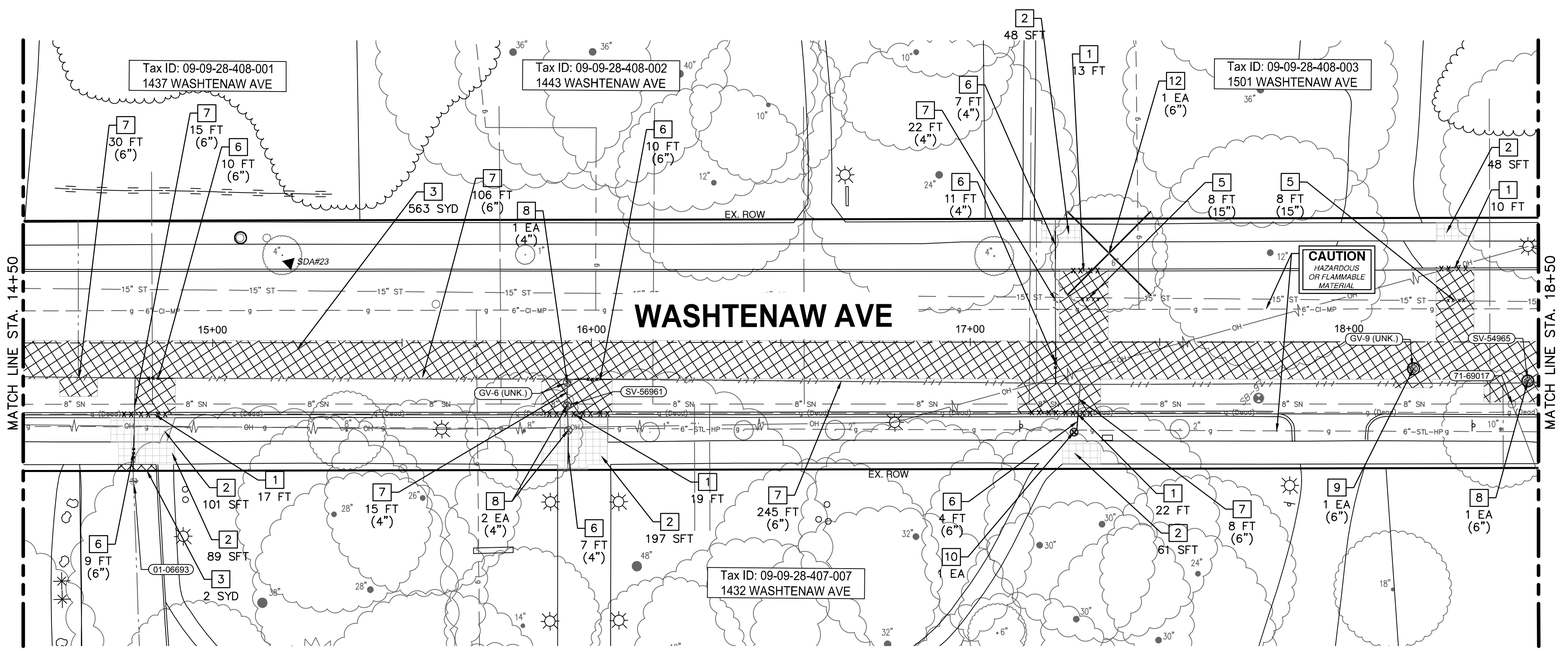
DRAWING No. 2025-015-10

SHEET No. 10 OF 44

J:\AA\Design\AA25002 - Washtenaw Ave Watermain\Ann Arbor Cads\Plan Production\AA25002_TYP.dwg Dwg Created: 28-Sep-26 - _a2 standard bw.stb - Plot Date: 12-Nov-26



REMOVAL PLAN - STA 10+50 TO STA 14+50



REMOVAL PLAN - STA 14+50 TO STA 18+50

NOTES

1. STORM SEWER PIPE REMOVALS PROVIDED AT PROPOSED WATER MAIN CROSSING LOCATIONS TO BE USED AS-NEEDED IF STORM SEWER PIPE IS DAMAGED DURING WATER MAIN INSTALLATION.

REMOVAL HATCH KEY

- PAVEMENT, REM
- HMA SURFACE, REM
- SIDEWALK AND RAMPS, REMOVE DRIVEWAY APPROACH, REMOVE
- CURB AND GUTTER, ANY TYPE OR SIZE, REM, MODIFIED
- STORM SEWER PIPE, ANY SIZE REMOVE
- WATER MAIN PIPE, REM
- WATER MAIN PIPE, ABANDON

REMOVAL KEY

KEY	DESCRIPTION
1	CURB, GUTTER, AND CURB AND GUTTER, ANY TYPE, REM
2	SIDEWALK AND RAMPS, REMOVE* DRIVEWAY APPROACH, REMOVE*
3	PAVEMENT, ANY THICKNESS, REM*
4	NOT USED
5	STORM SEWER PIPE, _ IN. DIA., REM
6	WATER MAIN PIPE, _ IN. DIA., REM
7	WATER MAIN PIPE, _ IN. DIA., ABANDON
8	GATE VALVE IN BOX, _ IN. DIA., ABANDON
9	GATE VALVE IN BOX, _ IN. DIA., REM
10	FIRE HYDRANT ASSEMBLY, REM
11	STORM SEWER DROP STRUCTURE, REM
12	TREE, REM, _ IN.

*SAWCUT FULL DEPTH AT REMOVAL LIMITS

REMOVAL QUANTITIES - THIS SHEET

Item	Quantity	Unit
Tree, Rem, 6 In. - 12 In.	1	Ea
DS_Pavt, Any Thickness, Rem	1199	Syd
Curb, Gutter, and Curb and Gutter, Any Type, Rem	132	Ft
Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	707	Sft
Storm Sewer Pipe, 12 In. Dia., Rem	24	Ft
Storm Sewer Pipe, 15 In. Dia., Rem	16	Ft
Storm Sewer Pipe, 24 In. Dia., Rem	32	Ft
Storm Sewer Drop Structure, Rem	1	Ea
Fire Hydrant Assembly, Rem	1	Ea
Water Main Pipe, 4 In. Dia., Abandon	45	Ft
Water Main Pipe, 6 In. Dia., Abandon	692	Ft
Water Main Pipe, 4 In. Dia., Rem	39	Ft
Water Main Pipe, 6 In. Dia., Rem	158	Ft
Gate Valve in Box, 4 In. Dia., Abandon	3	Ea
Gate Valve in Box, 6 In. Dia., Abandon	3	Ea
Gate Valve in Box, 4 In. Dia., Rem	1	Ea
Gate Valve in Box, 6 In. Dia., Rem	2	Ea

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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
5	–	–	–	–
4	–	–	–	–
3	FINAL SUBMITTAL	11/17/2026	AJ	AL
2	90% SUBMITTAL	10/15/2026	AJ	AL/DD
1	70% SUBMITTAL	02/20/2026	AJ/RD	AL/CH

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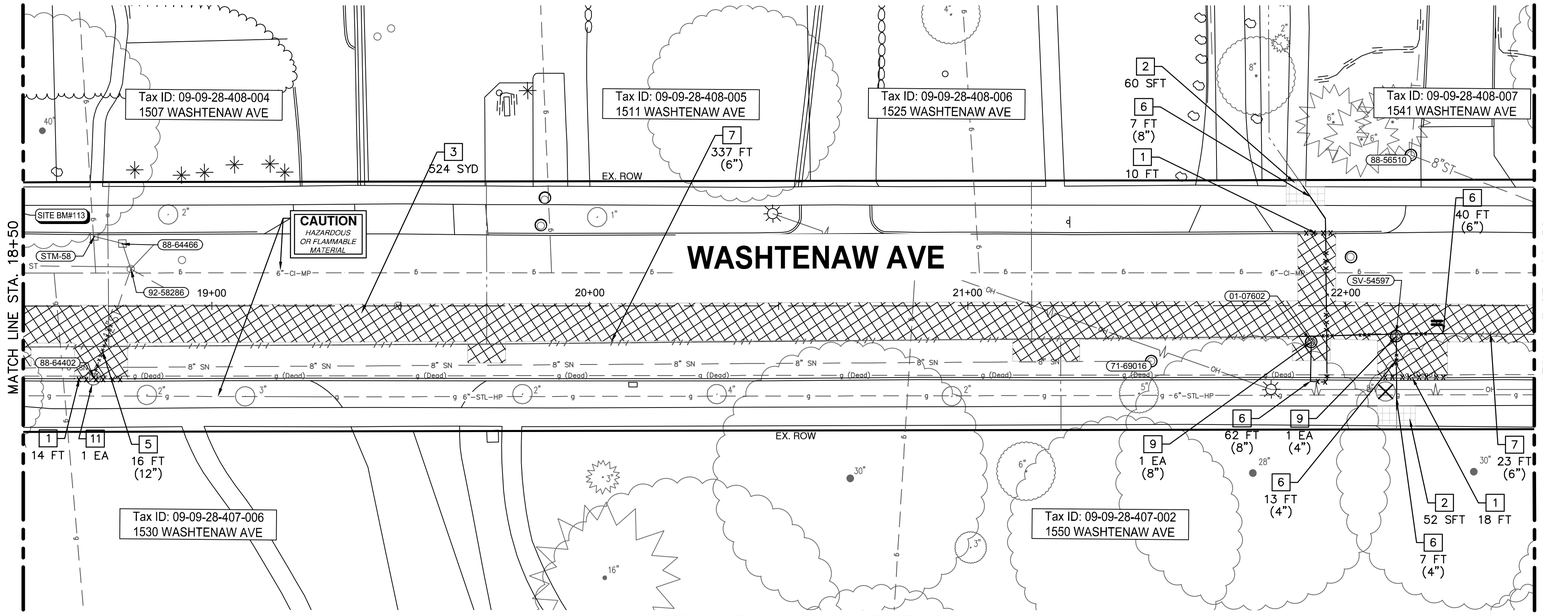
REMOVAL PLAN - P.O.B. TO STA 18+50

SCALE : 1" = 20'

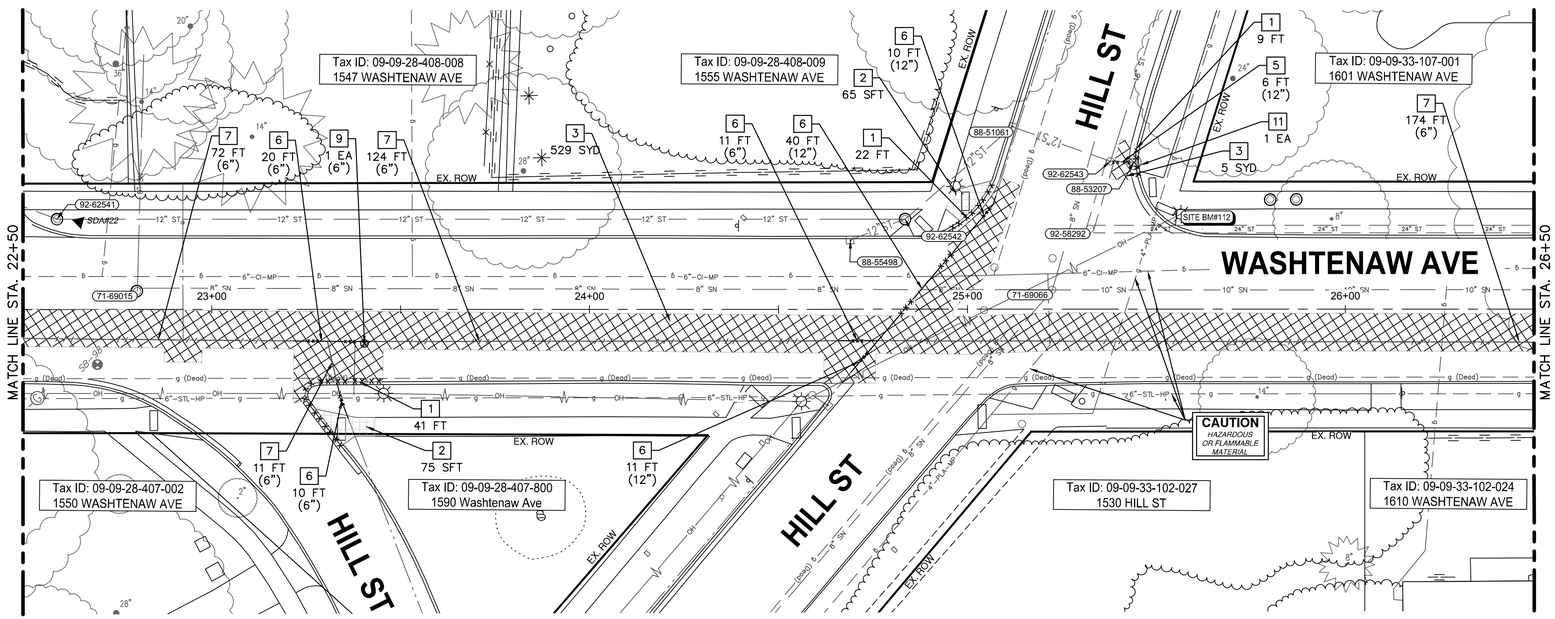
DRAWING No. 2025-015-11

SHEET No. 11 OF 44

J: \AA \Design \AA25002 – Washtenaw Ave Watermain \Ann Arbor Cads \Plan Production \AA25002_Rem1.dwg Dwg Created: 13-Oct-26 – _a2 standard bw.stb – Plot Date: 12-Nov-26



REMOVAL PLAN - STA 18+50 TO STA 22+50



REMOVAL PLAN - STA 22+50 TO STA 26+50

NOTES

1. STORM SEWER PIPE REMOVALS PROVIDED AT PROPOSED WATER MAIN CROSSING LOCATIONS TO BE USED AS-NEEDED IF STORM SEWER PIPE IS DAMAGED DURING WATER MAIN INSTALLATION.

REMOVAL HATCH KEY

- PAVEMENT, REM
- HMA SURFACE, REM
- SIDEWALK AND RAMPS, REMOVE DRIVEWAY APPROACH, REMOVE
- CURB AND GUTTER, ANY TYPE OR SIZE, REM, MODIFIED
- STORM SEWER PIPE, ANY SIZE REMOVE
- WATER MAIN PIPE, REM
- WATER MAIN PIPE, ABANDON

REMOVAL KEY

KEY	DESCRIPTION
1	CURB, GUTTER, AND CURB AND GUTTER, ANY TYPE, REM
2	SIDEWALK AND RAMPS, REMOVE* DRIVEWAY APPROACH, REMOVE*
3	PAVEMENT, ANY THICKNESS, REM*
4	NOT USED
5	STORM SEWER PIPE, _ IN. DIA., REM
6	WATER MAIN PIPE, _ IN. DIA., REM
7	WATER MAIN PIPE, _ IN. DIA., ABANDON
8	GATE VALVE IN BOX, _ IN. DIA., ABANDON
9	GATE VALVE IN BOX, _ IN. DIA., REM
10	FIRE HYDRANT ASSEMBLY, REM
11	STORM SEWER DROP STRUCTURE, REM
12	TREE, REM, _ IN.

*SAWCUT FULL DEPTH AT REMOVAL LIMITS

REMOVAL QUANTITIES - THIS SHEET

Item	Quantity	Unit
DS_Pavt, Any Thickness, Rem	1058	Syd
Curb, Gutter, and Curb and Gutter, Any Type, Rem	114	Ft
Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	252	Sft
Storm Sewer Pipe, 12 In. Dia., Rem	22	Ft
Storm Sewer Drop Structure, Rem	2	Ea
Water Main Pipe, 6 In. Dia., Abandon	741	Ft
Water Main Pipe, 4 In. Dia., Rem	20	Ft
Water Main Pipe, 6 In. Dia., Rem	81	Ft
Water Main Pipe, 8 In. Dia., Rem	69	Ft
Water Main Pipe, 12 In. Dia., Rem	61	Ft
Gate Valve in Box, 4 In. Dia., Rem	1	Ea
Gate Valve in Box, 6 In. Dia., Rem	1	Ea
Gate Valve in Box, 8 In. Dia., Rem	1	Ea

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

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
5				
4				
3	FINAL SUBMITTAL	11/17/2026	AJ	AL
2	90% SUBMITTAL	10/15/2026	AJ	AL/DD
1	70% SUBMITTAL	02/20/2026	AJ/RD	AL/CH

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WASHTENAW AVE. WATER MAIN REPLACEMENT PROJECT

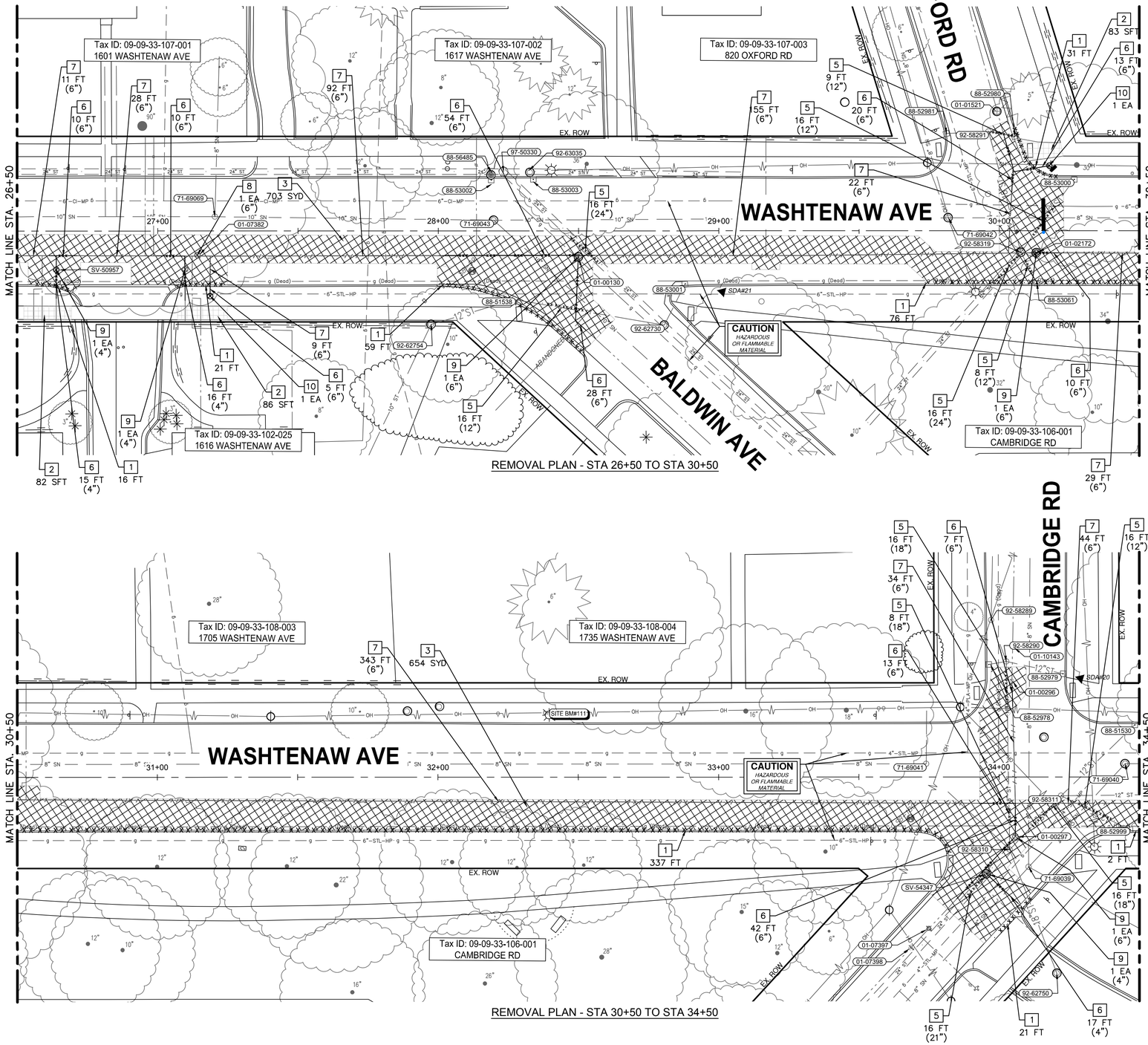
REMOVAL PLAN - STA 18+50 TO STA 26+50

SCALE: 1" = 20'

DRAWING No. 2025-015-12

SHEET No. 12 OF 44

J:\AA\Design\AA25002 - Washtenaw Ave Watermain\Ann Arbor Cads\Plan Production\AA25002_Rem1.dwg Dwg Created: 13-Oct-26 - _a2 standard bw.stb - Plot Date: 12-Nov-26



REMOVAL HATCH KEY

- PAVEMENT, REM
- HMA SURFACE, REM
- SIDEWALK AND RAMPS, REMOVE DRIVEWAY APPROACH, REMOVE
- CURB AND GUTTER, ANY TYPE OR SIZE, REM, MODIFIED
- STORM SEWER PIPE, ANY SIZE REMOVE
- WATER MAIN PIPE, REM
- WATER MAIN PIPE, ABANDON

REMOVAL KEY

KEY	DESCRIPTION
1	CURB, GUTTER, AND CURB AND GUTTER, ANY TYPE, REM
2	SIDEWALK AND RAMPS, REMOVE* DRIVEWAY APPROACH, REMOVE*
3	PAVEMENT, ANY THICKNESS, REM*
4	NOT USED
5	STORM SEWER PIPE, _ IN. DIA., REM
6	WATER MAIN PIPE, _ IN. DIA., REM
7	WATER MAIN PIPE, _ IN. DIA., ABANDON
8	GATE VALVE IN BOX, _ IN. DIA., ABANDON
9	GATE VALVE IN BOX, _ IN. DIA., REM
10	FIRE HYDRANT ASSEMBLY, REM
11	STORM SEWER DROP STRUCTURE, REM
12	TREE, REM, _ IN.

*SAWCUT FULL DEPTH AT REMOVAL LIMITS

REMOVAL QUANTITIES - THIS SHEET

Item	Quantity	Unit
DS_Pavt, Any Thickness, Rem	1357	Syd
Curb, Gutter, and Curb and Gutter, Any Type, Rem	563	Ft
Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	251	Sft
Storm Sewer Pipe, 12 In. Dia., Rem	65	Ft
Storm Sewer Pipe, 18 In. Dia., Rem	40	Ft
Storm Sewer Pipe, 21 In. Dia., Rem	16	Ft
Storm Sewer Pipe, 24 In. Dia., Rem	32	Ft
Fire Hydrant Assembly, Rem	2	Ea
Water Main Pipe, 4 In. Dia., Rem	48	Ft
Water Main Pipe, 6 In. Dia., Rem	212	Ft
Water Main Pipe, 6 In. Dia., Abandon	767	Ft
Gate Valve in Box, 6 In. Dia., Abandon	1	Ea
Gate Valve in Box, 4 In. Dia., Rem	3	Ea
Gate Valve in Box, 6 In. Dia., Rem	3	Ea

NOTES

1. STORM SEWER PIPE REMOVALS PROVIDED AT PROPOSED WATER MAIN CROSSING LOCATIONS TO BE USED AS-NEEDED IF STORM SEWER PIPE IS DAMAGED DURING WATER MAIN INSTALLATION.

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

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
5	–	–	–	–
4	–	–	–	–
3	FINAL SUBMITTAL	11/17/2026	AJ	AL
2	90% SUBMITTAL	10/15/2026	AJ	AL/DD
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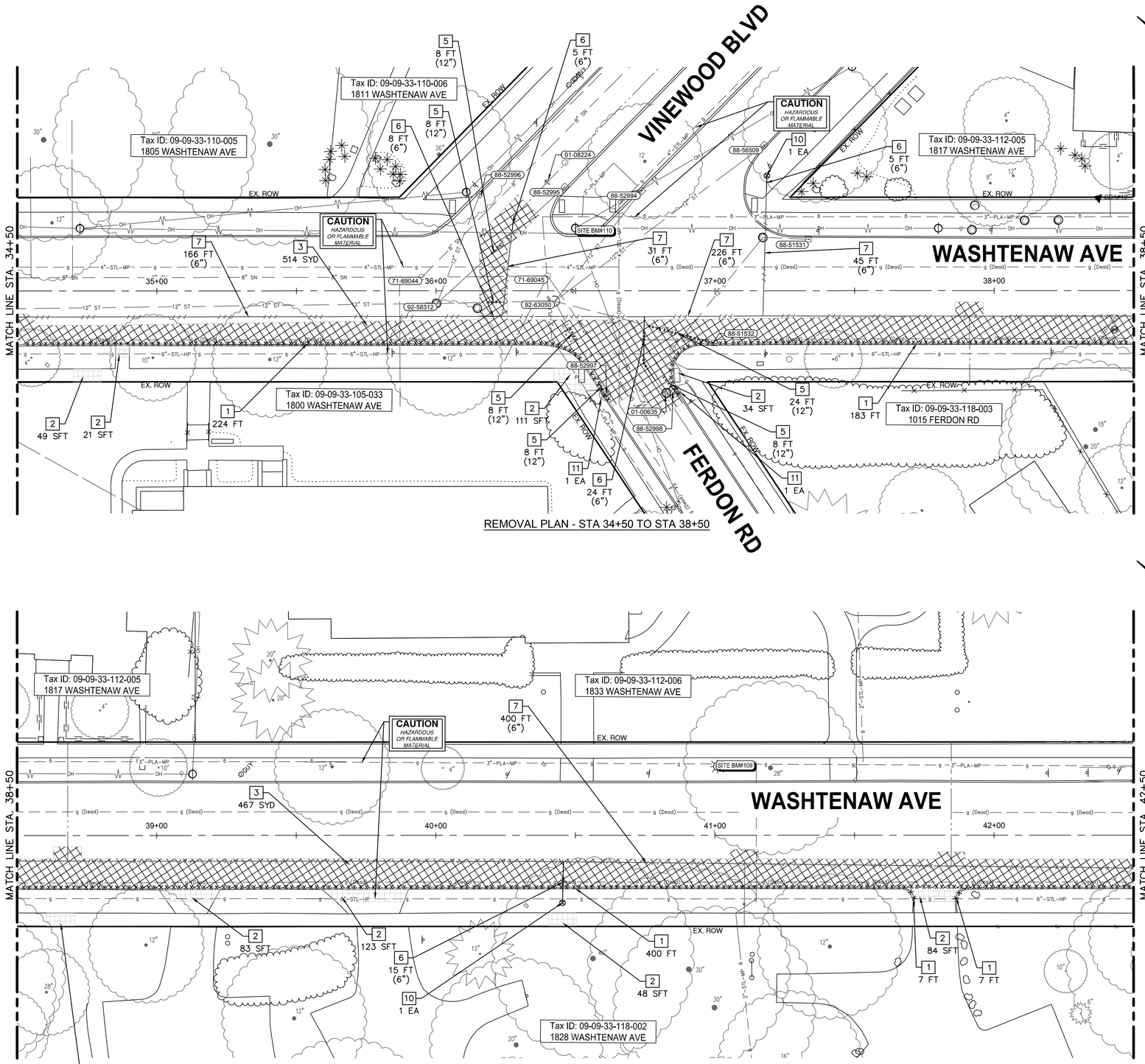
REMOVAL PLAN - STA 26+50 TO STA 34+50

SCALE: 1" = 20'

DRAWING No. 2025-015-13

SHEET No. 13 OF 44

J:\AA\Design\AA25002 – Washtenaw Ave Watermain\Ann Arbor Cads\Plan Production\AA25002_Rem1.dwg Dwg Created: 13-Oct-26 – _a2 standard bw.stb – Plot Date: 12-Nov-26



REMOVAL PLAN - STA 34+50 TO STA 38+50

REMOVAL PLAN - STA 38+50 TO STA 42+50

REMOVAL HATCH KEY	
	PAVEMENT, REM
	HMA SURFACE, REM
	SIDEWALK AND RAMPS, REMOVE DRIVEWAY APPROACH, REMOVE
· XX·XX·XX ·	CURB AND GUTTER, ANY TYPE OR SIZE, REM, MODIFIED
· xx·xx·xx·xx·xx ·	STORM SEWER PIPE, ANY SIZE REMOVE
——x-x-x——	WATER MAIN PIPE, REM
——/-/-/——	WATER MAIN PIPE, ABANDON

REMOVAL KEY	
KEY	DESCRIPTION
1	CURB, GUTTER, AND CURB AND GUTTER, ANY TYPE, REM
2	SIDEWALK AND RAMPS, REMOVE* DRIVEWAY APPROACH, REMOVE*
3	PAVEMENT, ANY THICKNESS, REM*
4	NOT USED
5	STORM SEWER PIPE, _ IN. DIA., REM
6	WATER MAIN PIPE, _ IN. DIA., REM
7	WATER MAIN PIPE, _ IN. DIA., ABANDON
8	GATE VALVE IN BOX, _ IN. DIA., ABANDON
9	GATE VALVE IN BOX, _ IN. DIA., REM
10	FIRE HYDRANT ASSEMBLY, REM
11	STORM SEWER DROP STRUCTURE, REM
12	TREE, REM, _ IN.

*SAWCUT FULL DEPTH AT REMOVAL LIMITS

REMOVAL QUANTITIES - THIS SHEET

Item	Quantity	Unit
DS_Pavt, Any Thickness, Rem	981	Syd
Curb, Gutter, and Curb and Gutter, Any Type, Rem	821	Ft
Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	600	Sft
Storm Sewer Pipe, 12 In. Dia., Rem	64	Ft
Storm Sewer Drop Structure, Rem	2	Ea
Fire Hydrant Assembly, Rem	2	Ea
Water Main Pipe, 6 In. Dia., Abandon	868	Ft
Water Main Pipe, 6 In. Dia., Rem	57	Ft

NOTES

1. STORM SEWER PIPE REMOVALS PROVIDED AT PROPOSED WATER MAIN CROSSING LOCATIONS TO BE USED AS-NEEDED IF STORM SEWER PIPE IS DAMAGED DURING WATER MAIN INSTALLATION.

Know what's below. Call before you dig.

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
5	–	–	–	–
4	–	–	–	–
3	FINAL SUBMITTAL	11/17/2026	AJ	AL
2	90% SUBMITTAL	10/15/2026	AJ	AL/DD
1	70% SUBMITTAL	02/20/2026	AJ/RD	AL/CH

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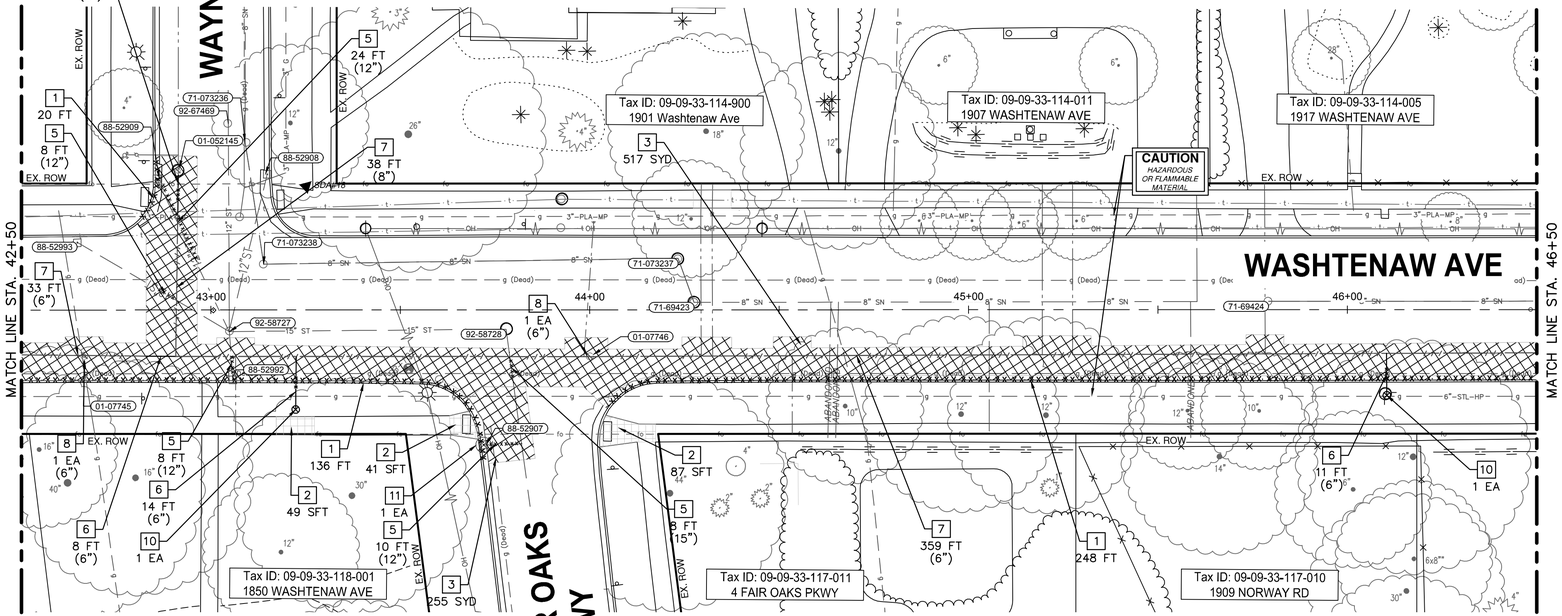
REMOVAL PLAN - STA 34+50 TO STA 42+50

SCALE : 1" = 20'

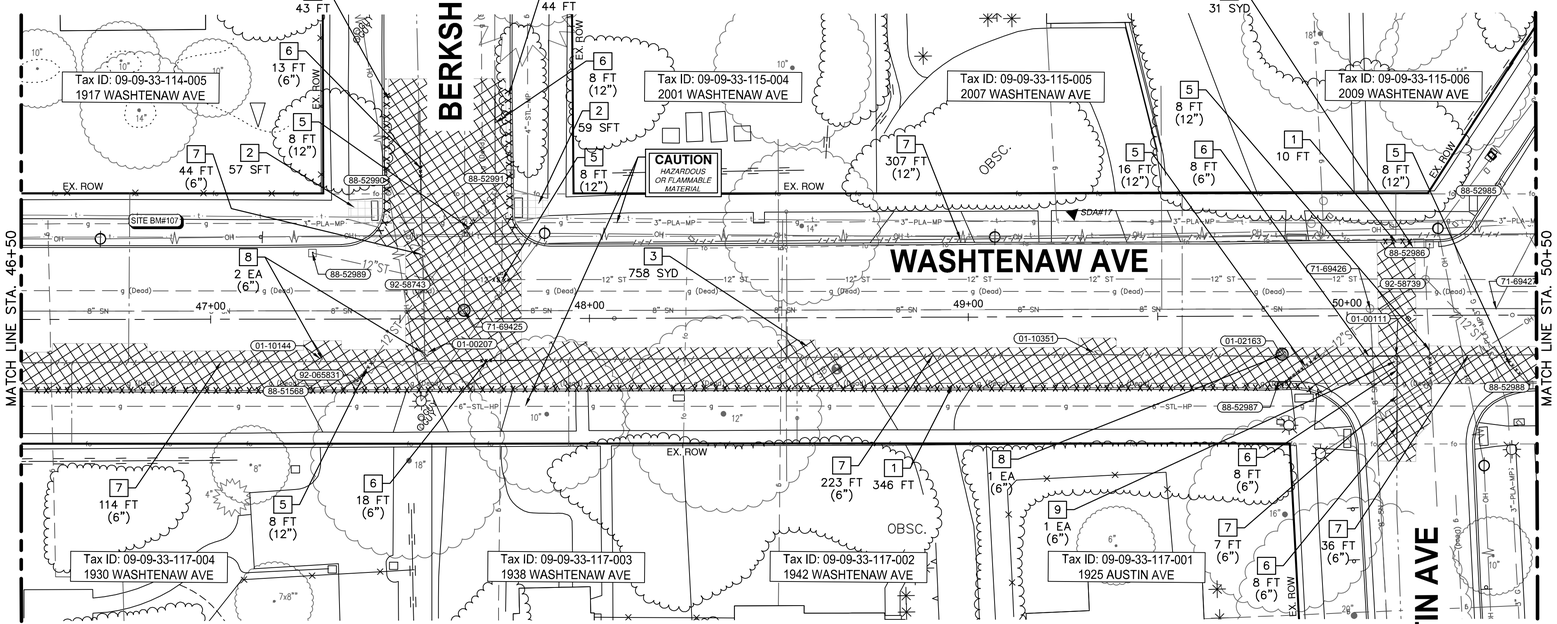
DRAWING No. 2025-015-14

SHEET No. 14 OF 44

J: \AA \Design \AA25002 – Washtenaw Ave Watermain \Ann Arbor Cads \Plan Production \AA25002_Rem1.dwg Dwg Created: 13–Oct–26 – _a2 standard bw.stb – Plot Date: 12–Nov–26



REMOVAL PLAN - STA 42+50 TO STA 46+50



REMOVAL PLAN - STA 46+50 TO STA 50+50

REMOVAL HATCH KEY

- PAVEMENT, REM
- HMA SURFACE, REM
- SIDEWALK AND RAMPS, REMOVE DRIVEWAY APPROACH, REMOVE
- CURB AND GUTTER, ANY TYPE OR SIZE, REM, MODIFIED
- STORM SEWER PIPE, ANY SIZE REMOVE
- WATER MAIN PIPE, REM
- WATER MAIN PIPE, ABANDON

REMOVAL KEY

KEY	DESCRIPTION
1	CURB, GUTTER, AND CURB AND GUTTER, ANY TYPE, REM
2	SIDEWALK AND RAMPS, REMOVE* DRIVEWAY APPROACH, REMOVE*
3	PAVEMENT, ANY THICKNESS, REM*
4	NOT USED
5	STORM SEWER PIPE, _ IN. DIA., REM
6	WATER MAIN PIPE, _ IN. DIA., REM
7	WATER MAIN PIPE, _ IN. DIA., ABANDON
8	GATE VALVE IN BOX, _ IN. DIA., ABANDON
9	GATE VALVE IN BOX, _ IN. DIA., REM
10	FIRE HYDRANT ASSEMBLY, REM
11	STORM SEWER DROP STRUCTURE, REM
12	TREE, REM, _ IN.

*SAWCUT FULL DEPTH AT REMOVAL LIMITS

REMOVAL QUANTITIES - THIS SHEET

Item	Quantity	Unit
DS_Pavt, Any Thickness, Rem	1561	Syd
Curb, Gutter, and Curb and Gutter, Any Type, Rem	847	Ft
Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	293	Sft
Storm Sewer Pipe, 12 In. Dia., Rem	106	Ft
Storm Sewer Pipe, 15 In. Dia., Rem	8	Ft
Storm Sewer Drop Structure, Rem	1	Ea
Fire Hydrant Assembly, Rem	2	Ea
Water Main Pipe, 6 In. Dia., Abandon	816	Ft
Water Main Pipe, 8 In. Dia., Abandon	38	Ft
Water Main Pipe, 12 In. Dia., Abandon	307	Ft
Water Main Pipe, 6 In. Dia., Rem	88	Ft
Water Main Pipe, 8 In. Dia., Rem	10	Ft
Water Main Pipe, 12 In. Dia., Rem	8	Ft
Gate Valve in Box, 6 In. Dia., Abandon	5	Ea
Gate Valve in Box, 6 In. Dia., Rem	1	Ea

NOTES

1. STORM SEWER PIPE REMOVALS PROVIDED AT PROPOSED WATER MAIN CROSSING LOCATIONS TO BE USED AS-NEEDED IF STORM SEWER PIPE IS DAMAGED DURING WATER MAIN INSTALLATION.

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

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
5	–	–	–	–
4	–	–	–	–
3	FINAL SUBMITTAL	11/17/2026	AJ	AL
2	90% SUBMITTAL	10/15/2026	AJ	AL/DD
1	70% SUBMITTAL	02/20/2026	AJ/RD	AL/CH

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WASHTENAW AVE. WATER MAIN REPLACEMENT PROJECT

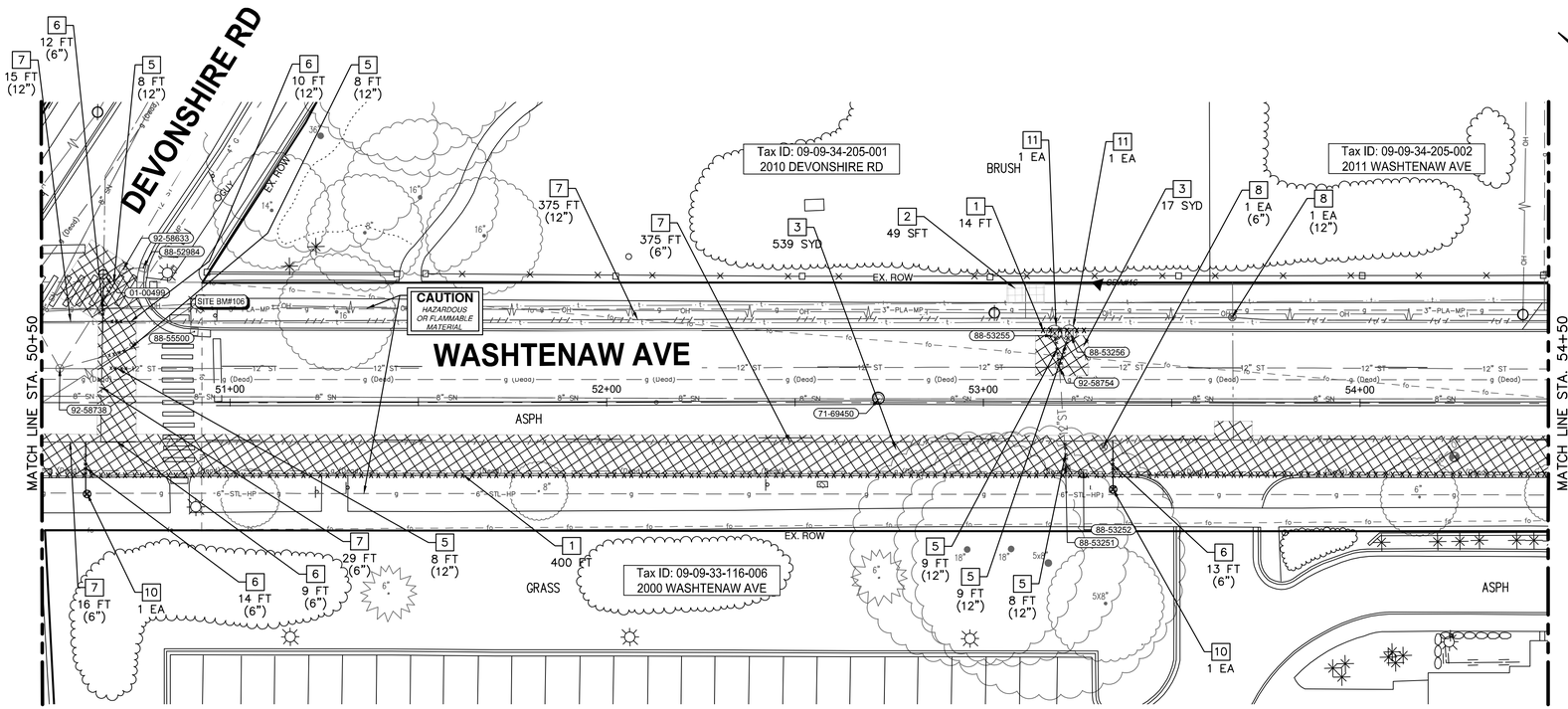
REMOVAL PLAN - STA 42+50 TO STA 50+50

SCALE : 1" = 20'

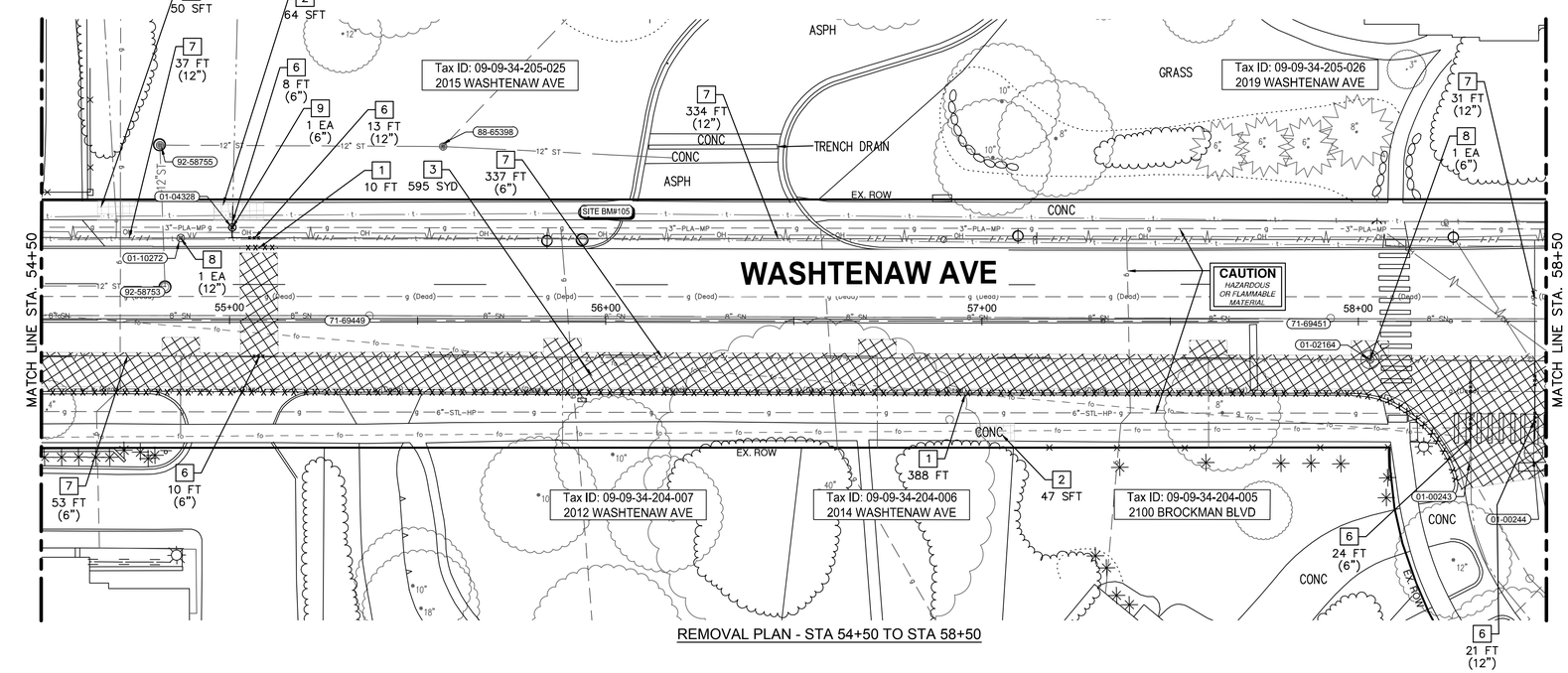
DRAWING No. 2025-015-15

SHEET No. 15 OF 44

J:\AA\Design\AA25002 – Washtenaw Ave Watermain\Ann Arbor Cads\Plan Production\AA25002_Rem1.dwg Dwg Created: 13-Oct-26 – _a2 standard bw.stb – Plot Date: 12-Nov-26



REMOVAL PLAN - STA 50+50 TO STA 54+50



REMOVAL PLAN - STA 54+50 TO STA 58+50

REMOVAL HATCH KEY

- PAVEMENT, REM
- HMA SURFACE, REM
- SIDEWALK AND RAMPS, REMOVE DRIVEWAY APPROACH, REMOVE
- CURB AND GUTTER, ANY TYPE OR SIZE, REM, MODIFIED
- STORM SEWER PIPE, ANY SIZE REMOVE
- WATER MAIN PIPE, REM
- WATER MAIN PIPE, ABANDON

REMOVAL KEY

KEY	DESCRIPTION
1	CURB, GUTTER, AND CURB AND GUTTER, ANY TYPE, REM
2	SIDEWALK AND RAMPS, REMOVE* DRIVEWAY APPROACH, REMOVE*
3	PAVEMENT, ANY THICKNESS, REM*
4	NOT USED
5	STORM SEWER PIPE, _ IN. DIA., REM
6	WATER MAIN PIPE, _ IN. DIA., REM
7	WATER MAIN PIPE, _ IN. DIA., ABANDON
8	GATE VALVE IN BOX, _ IN. DIA., ABANDON
9	GATE VALVE IN BOX, _ IN. DIA., REM
10	FIRE HYDRANT ASSEMBLY, REM
11	STORM SEWER DROP STRUCTURE, REM
12	TREE, REM, _ IN.

*SAWCUT FULL DEPTH AT REMOVAL LIMITS

REMOVAL QUANTITIES - THIS SHEET

Item	Quantity	Unit
DS_Pavt, Any Thickness, Rem	1151	Syd
Curb, Gutter, and Curb and Gutter, Any Type, Rem	812	Ft
Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	210	Sft
Storm Sewer Pipe, 12 In. Dia., Rem	50	Ft
Storm Sewer Drop Structure, Rem	2	Ea
Fire Hydrant Assembly, Rem	2	Ea
Water Main Pipe, 6 In. Dia., Abandon	810	Ft
Water Main Pipe, 12 In. Dia., Abandon	792	Ft
Water Main Pipe, 6 In. Dia., Rem	90	Ft
Water Main Pipe, 12 In. Dia., Rem	44	Ft
Gate Valve in Box, 6 In. Dia., Abandon	2	Ea
Gate Valve in Box, 12 In. Dia., Abandon	2	Ea
Gate Valve in Box, 6 In. Dia., Rem	1	Ea

NOTES

1. STORM SEWER PIPE REMOVALS PROVIDED AT PROPOSED WATER MAIN CROSSING LOCATIONS TO BE USED AS-NEEDED IF STORM SEWER PIPE IS DAMAGED DURING WATER MAIN INSTALLATION.

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

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
5	–	–	–	–
4	–	–	–	–
3	FINAL SUBMITTAL	11/17/2026	AJ	AL
2	90% SUBMITTAL	10/15/2026	AJ	AL/DD
1	70% SUBMITTAL	02/20/2026	AJ/RD	AL/CH

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WASHTENAW AVE. WATER MAIN REPLACEMENT PROJECT

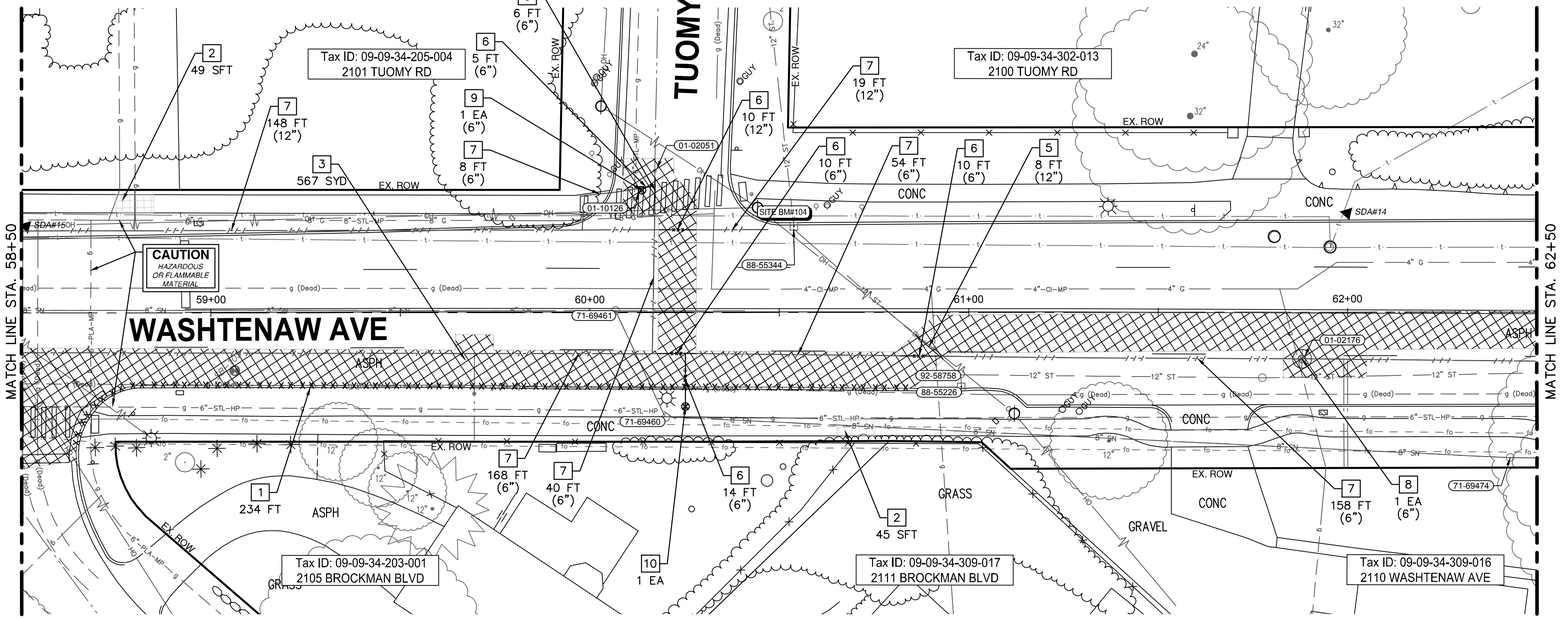
REMOVAL PLAN - STA 50+50 TO STA 58+50

SCALE : 1" = 20'

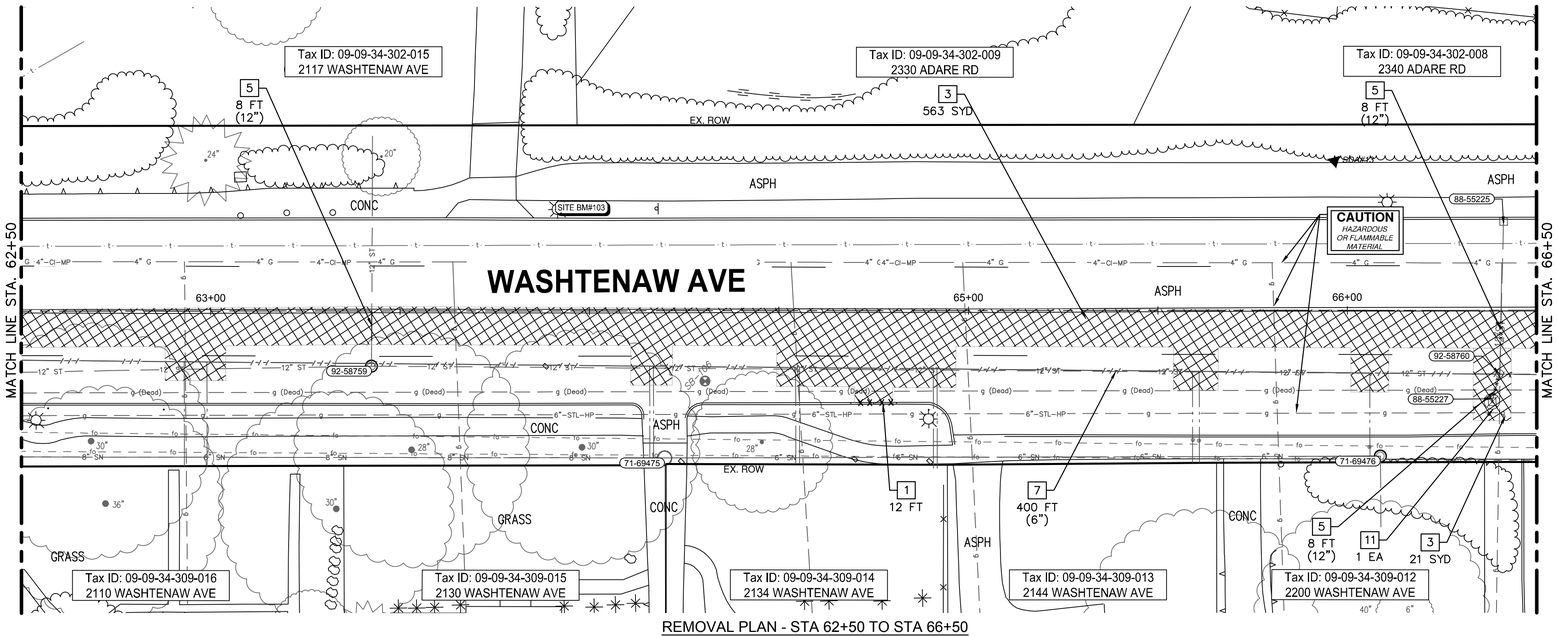
DRAWING No. 2025-015-16

SHEET No. 16 OF 44

J:\AA\Design\AA25002 – Washtenaw Ave Watermain\Ann Arbor Cads\Plan Production\AA25002_Rem2.dwg Dwg Created: 14-Oct-26 – _a2 standard bw.stb – Plot Date: 12-Nov-26



REMOVAL PLAN - STA 58+50 TO STA 62+50



REMOVAL PLAN - STA 62+50 TO STA 66+50

REMOVAL HATCH KEY

- PAVEMENT, REM
- HMA SURFACE, REM
- SIDEWALK AND RAMPS, REMOVE DRIVEWAY APPROACH, REMOVE
- CURB AND GUTTER, ANY TYPE OR SIZE, REM, MODIFIED
- STORM SEWER PIPE, ANY SIZE REMOVE
- WATER MAIN PIPE, REM
- WATER MAIN PIPE, ABANDON

REMOVAL KEY

KEY	DESCRIPTION
1	CURB, GUTTER, AND CURB AND GUTTER, ANY TYPE, REM
2	SIDEWALK AND RAMPS, REMOVE* DRIVEWAY APPROACH, REMOVE*
3	PAVEMENT, ANY THICKNESS, REM*
4	NOT USED
5	STORM SEWER PIPE, _ IN. DIA., REM
6	WATER MAIN PIPE, _ IN. DIA., REM
7	WATER MAIN PIPE, _ IN. DIA., ABANDON
8	GATE VALVE IN BOX, _ IN. DIA., ABANDON
9	GATE VALVE IN BOX, _ IN. DIA., REM
10	FIRE HYDRANT ASSEMBLY, REM
11	STORM SEWER DROP STRUCTURE, REM
12	TREE, REM, _ IN.

*SAWCUT FULL DEPTH AT REMOVAL LIMITS

REMOVAL QUANTITIES - THIS SHEET

Item	Quantity	Unit
DS_Pavt, Any Thickness, Rem	1151	Syd
Curb, Gutter, and Curb and Gutter, Any Type, Rem	246	Ft
Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	94	Sft
Storm Sewer Pipe, 12 In. Dia., Rem	32	Ft
Storm Sewer Drop Structure, Rem	1	Ea
Fire Hydrant Assembly, Rem	1	Ea
Water Main Pipe, 6 In. Dia., Abandon	828	Ft
Water Main Pipe, 12 In. Dia., Abandon	167	Ft
Water Main Pipe, 6 In. Dia., Rem	45	Ft
Water Main Pipe, 12 In. Dia., Rem	10	Ft
Gate Valve in Box, 6 In. Dia., Abandon	1	Ea
Gate Valve in Box, 6 In. Dia., Rem	1	Ea

NOTES

1. STORM SEWER PIPE REMOVALS PROVIDED AT PROPOSED WATER MAIN CROSSING LOCATIONS TO BE USED AS-NEEDED IF STORM SEWER PIPE IS DAMAGED DURING WATER MAIN INSTALLATION.

Know what's below. Call before you dig.

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
5	–	–	–	–
4	–	–	–	–
3	FINAL SUBMITTAL	11/17/2026	AJ	AL
2	90% SUBMITTAL	10/15/2026	AJ	AL/DD
1	70% SUBMITTAL	02/20/2026	AJ/RD	AL/CH

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WASHTENAW AVE. WATER MAIN REPLACEMENT PROJECT

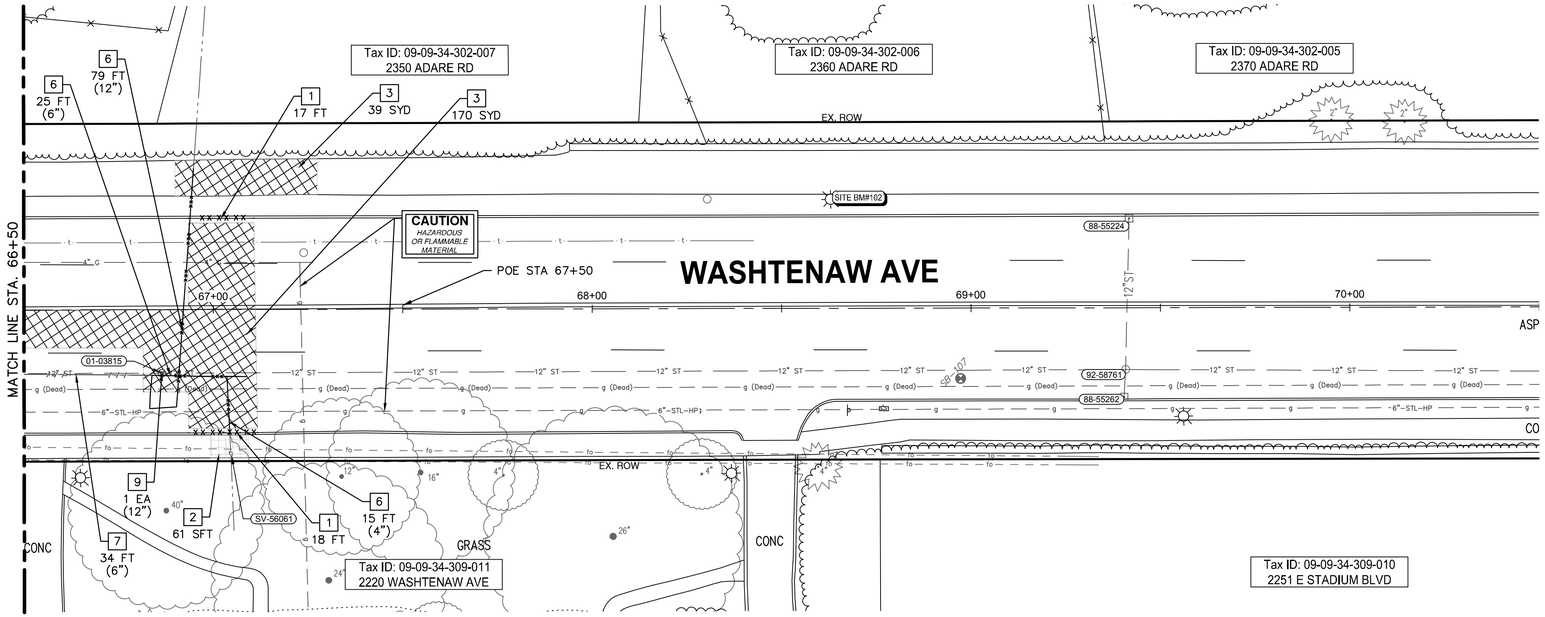
REMOVAL PLAN - STA 58+50 TO STA 66+50

SCALE : 1" = 20'

DRAWING No. 2025-015-17

SHEET No. 17 OF 44

J:\AA\Design\AA25002 - Washtenaw Ave Watermain\Ann Arbor Cads\Plan Production\AA25002_Rem2.dwg Dwg Created: 14-Oct-26 - _a2 standard bw.stb - Plot Date: 12-Nov-26



REMOVAL PLAN - STA 66+50 TO STA 70+50

REMOVAL HATCH KEY

- PAVEMENT, REM
- HMA SURFACE, REM
- SIDEWALK AND RAMPS, REMOVE
  DRIVEWAY APPROACH, REMOVE
- CURB AND GUTTER, ANY TYPE OR SIZE, REM, MODIFIED
- STORM SEWER PIPE, ANY SIZE REMOVE
- WATER MAIN PIPE, REM
- WATER MAIN PIPE, ABANDON

REMOVAL KEY

KEY	DESCRIPTION
1	CURB, GUTTER, AND CURB AND GUTTER, ANY TYPE, REM
2	SIDEWALK AND RAMPS, REMOVE* DRIVEWAY APPROACH, REMOVE*
3	PAVEMENT, ANY THICKNESS, REM*
4	NOT USED
5	STORM SEWER PIPE, _ IN. DIA., REM
6	WATER MAIN PIPE, _ IN. DIA., REM
7	WATER MAIN PIPE, _ IN. DIA., ABANDON
8	GATE VALVE IN BOX, _ IN. DIA., ABANDON
9	GATE VALVE IN BOX, _ IN. DIA., REM
10	FIRE HYDRANT ASSEMBLY, REM
11	STORM SEWER DROP STRUCTURE, REM
12	TREE, REM, _ IN.

*SAWCUT FULL DEPTH AT REMOVAL LIMITS

REMOVAL QUANTITIES - THIS SHEET

Item	Quantity	Unit
DS_Pavt, Any Thickness, Rem	209	Syd
Curb, Gutter, and Curb and Gutter, Any Type, Rem	35	Ft
Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	61	Sft
Water Main Pipe, 6 In. Dia., Abandon	34	Ft
Water Main Pipe, 4 In. Dia., Rem	15	Ft
Water Main Pipe, 6 In. Dia., Rem	25	Ft
Water Main Pipe, 12 In. Dia., Rem	79	Ft
Gate Valve in Box, 12 In. Dia., Rem	1	Ea

Know what's below. Call before you dig.

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
5	–	–	–	–
4	–	–	–	–
3	FINAL SUBMITTAL	11/17/2026	AJ	AL
2	90% SUBMITTAL	10/15/2026	AJ	AL/DD
1	70% SUBMITTAL	02/20/2026	AJ/RD	AL/CH

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WASHTENAW AVE. WATER MAIN REPLACEMENT PROJECT

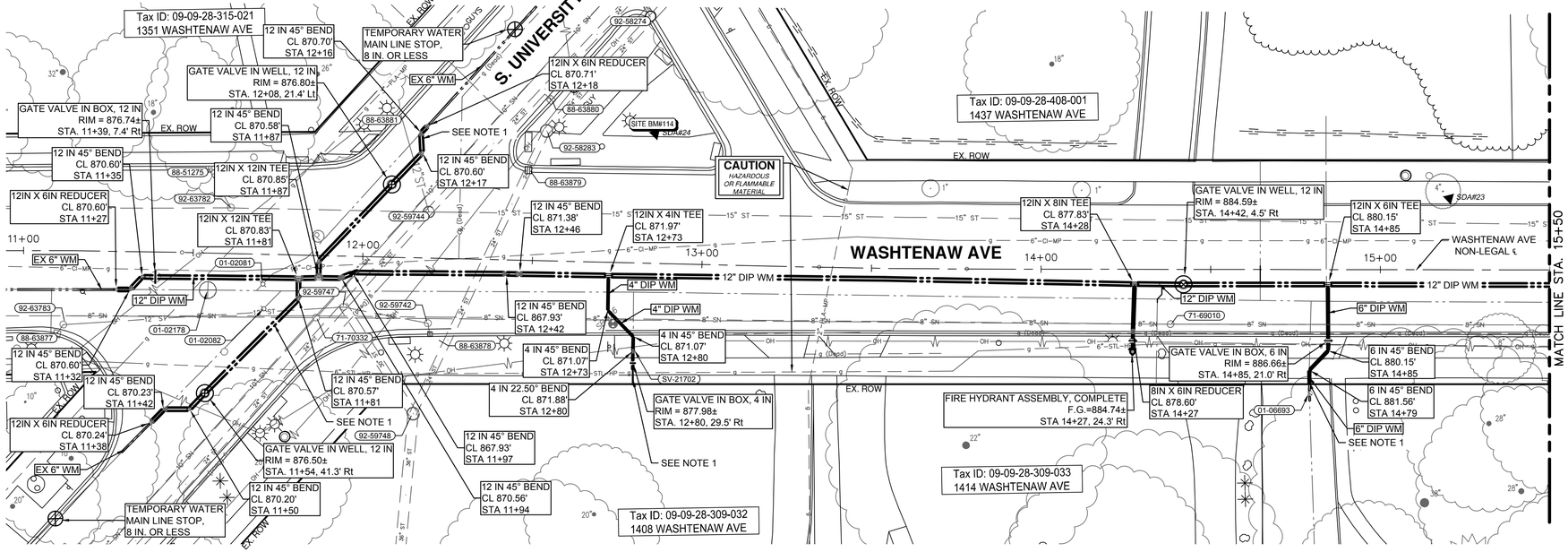
REMOVAL PLAN - STA 66+50 TO P.O.E.

SCALE : 1" = 20'

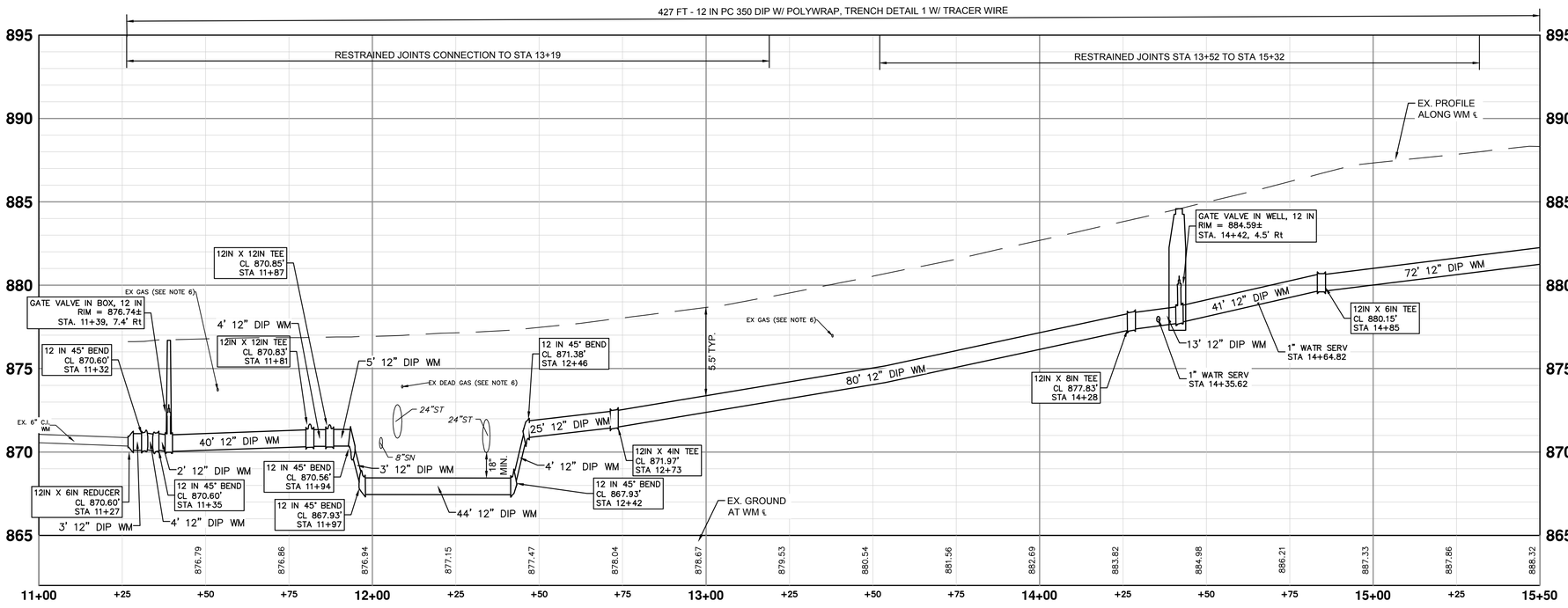
DRAWING No.
2025-015-18

SHEET No.
18 OF 44

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WATER MAIN PLAN - WASHTENAW AVENUE - STA 11+00 TO STA 15+50



WATER MAIN PROFILE - STA 11+00 TO STA 15+50

RESTRAINED JOINT LIMITS DESIGNED PER DIPRA. SEE SHEET 34 FOR TABLE AND NOTES.

WATER QUANTITIES - THIS SHEET

Item	Quantity	Unit
4 In., PC 350 DIP w/polywrap, SD-TD-1	31	Ft
6 In., PC 350 DIP w/polywrap, SD-TD-1	33	Ft
8 In., PC 350 DIP w/polywrap, SD-TD-1	14	Ft
12 In., PC 350 DIP w/polywrap, SD-TD-1	549	Ft
4 In. 22.5° DIP Bend	1	Ea
4 In. 45° DIP Bend	2	Ea
6 In. 45° DIP Bend	2	Ea
12 In. 45° DIP Bend	12	Ea
8 In. X 6 In. DIP Reducer	1	Ea
12 In. X 6 In. DIP Reducer	3	Ea
12 In. X 12 In. X 4 In. DIP Tee	1	Ea
12 In. X 12 In. X 6 In. DIP Tee	1	Ea
12 In. X 12 In. X 8 In. DIP Tee	1	Ea
12 In. X 12 In. X 12 In. DIP Tee	2	Ea
Gate Valve In Box, 6 In.	1	Ea
Gate Valve in Box, 12 In.	1	Ea
DS_Gate Valve In Box, 4 In.	1	Ea
Gate Valve In Well, 12 In.	3	Ea
Excavate & Backfill For Water Service Tap And Lead	10	Ft
Fire Hydrant Assembly, Complete	1	Ea
Temporary Water Main Line Stop, 8 In. or less	2	Ea

WATER MAIN STRUCTURE TABLE

STRUCTURE	TYPE	STATION	RIM
GV – 1	12 in. GVIB	11+39	876.74
GV – 2	12 in. Gate Valve in Well	11+54	876.50
GV – 3	12 in. Gate Valve in Well	12+08	876.80
GV – 4	4 in. GVIB	12+80	877.98
GV – 5	12 in. Gate Valve in Well	14+42	884.59
GV – 6	6 in. GVIB	14+85	886.66

HYDRANT(s) TABLE

STRUCTURE	TYPE	STATION	FG
HYD – 1	HYDRANT ASSEMBLY, COMPLETE	14+27	884.74

NOTES

1. SEE SHEET 33-34 FOR WATER MAIN TIE-IN PROFILES
2. SEE SHEET 35 FOR HYDRANT PROFILES
3. EXACT DEPTH OF SANITARY LEAD CROSSINGS IS UNKNOWN. CONTRACTOR TO FIELD VERIFY LEADS AND MAINTAIN CLEARANCE AS DIRECTED BY CITY ENGINEER. (TYP)
4. 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/RE-ABANDONING WATER MAIN AT CONNECTIONS AND ALL RELATED WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE UNIT PRICES FOR THE WATER MAIN PER ARTICLE 11, II.OO.2.
5. 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, 17-POUND" (MAINS UNDER 12 IN.) OR "SACRIFICIAL ANODE, 32-POUND" (12 IN. AND LARGER).
6. DEPTH OF ALL GAS MAINS, TELECOMMUNICATION AND ELECTRIC LINES UNKNOWN. PIPES SHOWN IN PROFILES AT AN ASSUMED 3 FT DEPTH, AND ABANDONED WATER MAIN AT AN ASSUMED 5.5 FT OF COVER, FOR CROSSING LOCATION ONLY. CONTRACTOR TO FIELD VERIFY EXACT LOCATION AND DEPTH.
7. ALL STATIONS AND OFFSETS SHOWN ARE REFERENCED TO THE WASHTENAW AVE. NON-LEGAL CENTERLINE.

Know what's below. Call before you dig.

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
5	–	–	–	–
4	–	–	–	–
3	FINAL SUBMITTAL	11/17/2026	AJ	AL
2	90% SUBMITTAL	10/15/2026	AJ	AL/DD
1	70% SUBMITTAL	02/20/2026	AJ/RD	AL/CH

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WASHTENAW AVE. WATER MAIN REPLACEMENT PROJECT

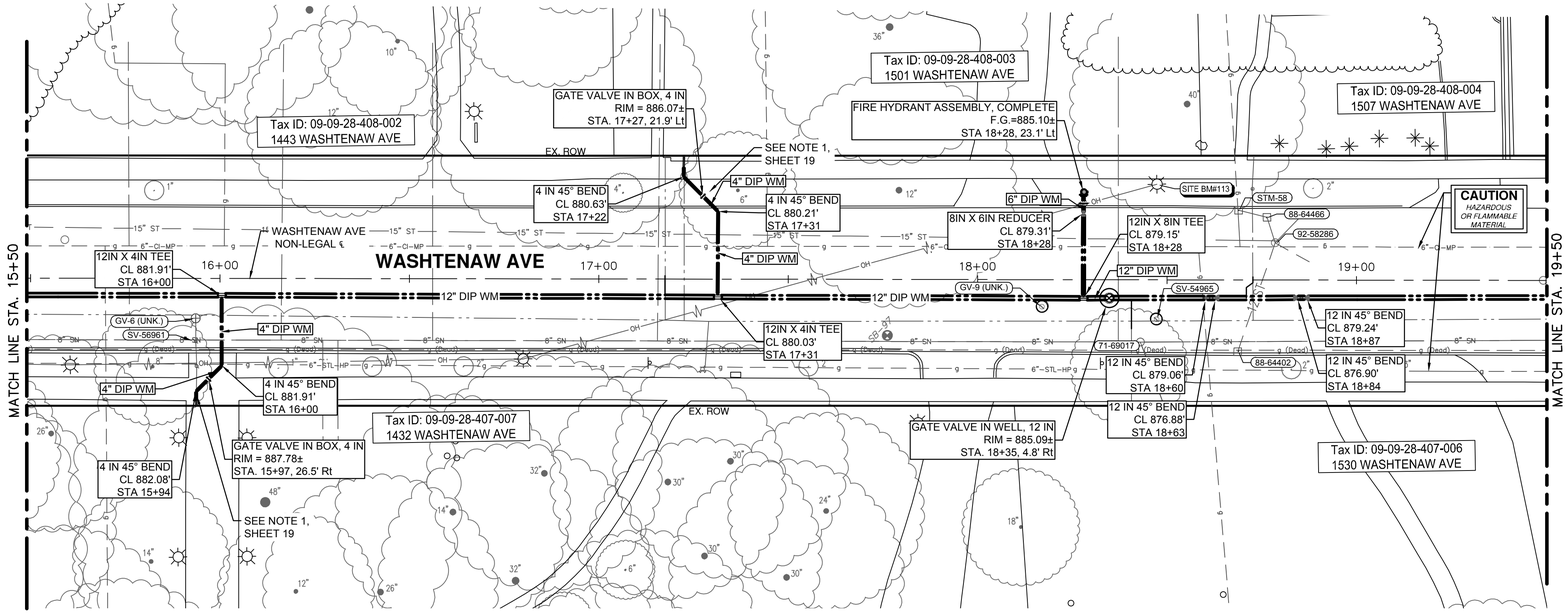
WATER MAIN PLAN & PROFILE - P.O.B. TO STA 15+50

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

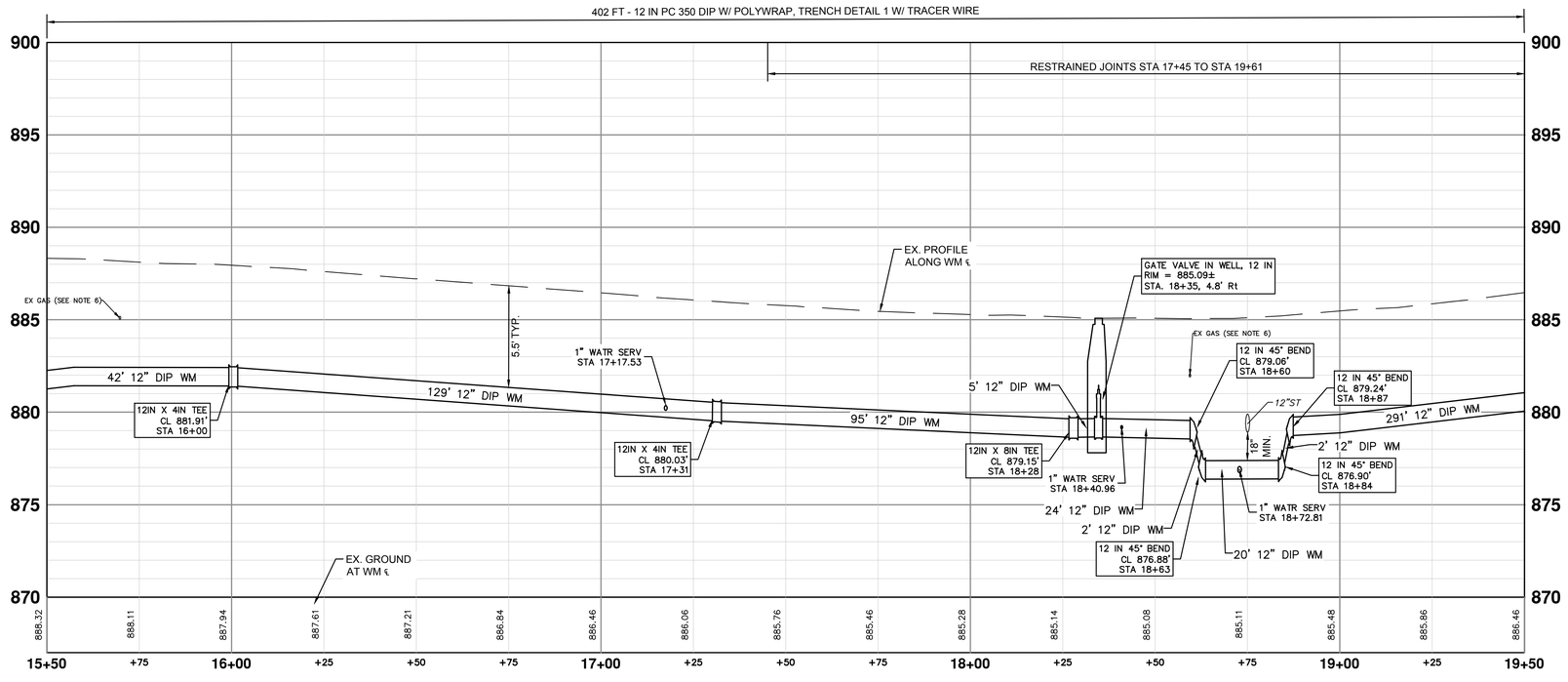
DRAWING No. 2025-015-19

SHEET No. 19 OF 44

J:\AA\Design\AA25002 – Washtenaw Ave Watermain\Ann Arbor Cads\Plan Production\AA25002_Watr_1.dwg Dwg Created: 15-Oct-26 – _a2 standard bw.stb – Plot Date: 12-Nov-26



WATER MAIN PLAN - WASHTENAW AVENUE - STA 15+50 TO STA 19+50



WATER MAIN PROFILE - STA 15+50 TO STA 19+50

RESTRAINED JOINT LIMITS DESIGNED PER DIPRA. SEE SHEET 34 FOR TABLE AND NOTES.

WATER QUANTITIES - THIS SHEET

Item	Quantity	Unit
4 In., PC 350 DIP w/polywrap, SD-TD-1	68	Ft
6 In., PC 350 DIP w/polywrap, SD-TD-1	2	Ft
8 In., PC 350 DIP w/polywrap, SD-TD-1	23	Ft
12 In., PC 350 DIP w/polywrap, SD-TD-1	400	Ft
4 In. 45° DIP Bend	4	Ea
12 In. 45° DIP Bend	4	Ea
8 In. X 6 In. DIP Reducer	1	Ea
12 In. X 12 In. X 4 In. DIP Tee	2	Ea
12 In. X 12 In. X 8 In. DIP Tee	1	Ea
DS_Gate Valve In Box, 4 In.	2	Ea
Gate Valve In Well, 12 In.	1	Ea
Excavate & Backfill For Water Service Tap And Lead	18	Ft
Fire Hydrant Assembly, Complete	1	Ea

WATER MAIN STRUCTURE TABLE

STRUCTURE	TYPE	STATION	RIM
GV – 7	4 in. GVIB	15+97	887.78
GV – 8	4 in. GVIB	17+27	886.07
GV – 9	12 in. Gate Valve in Well	18+35	885.09

HYDRANT(s) TABLE

STRUCTURE	TYPE	STATION	FG
HYD – 2	HYDRANT ASSEMBLY, COMPLETE	18+28	885.10

NOTES

6. DEPTH OF ALL GAS MAINS, TELECOMMUNICATION AND ELECTRIC LINES UNKNOWN. PIPES SHOWN IN PROFILES AT AN ASSUMED 3 FT DEPTH, AND ABANDONED WATER MAIN AT AN ASSUMED 5.5 FT OF COVER, FOR CROSSING LOCATION ONLY. CONTRACTOR TO FIELD VERIFY EXACT LOCATION AND DEPTH.

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

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
5	–	–	–	–
4	–	–	–	–
3	FINAL SUBMITTAL	11/17/2026	AJ	AL
2	90% SUBMITTAL	10/15/2026	AJ	AL/DD
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WASHTENAW AVE. WATER MAIN
REPLACEMENT PROJECT

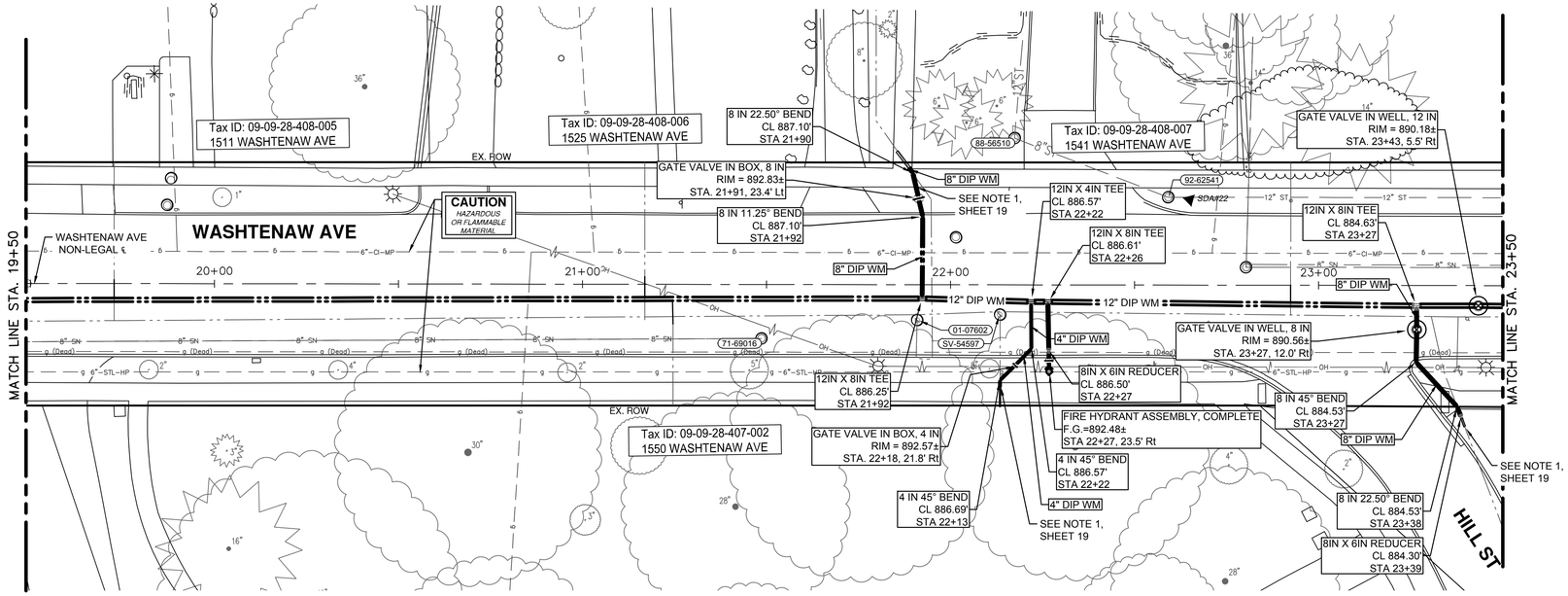
WATER MAIN PLAN & PROFILE - STA 15+50 TO STA 19+50

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

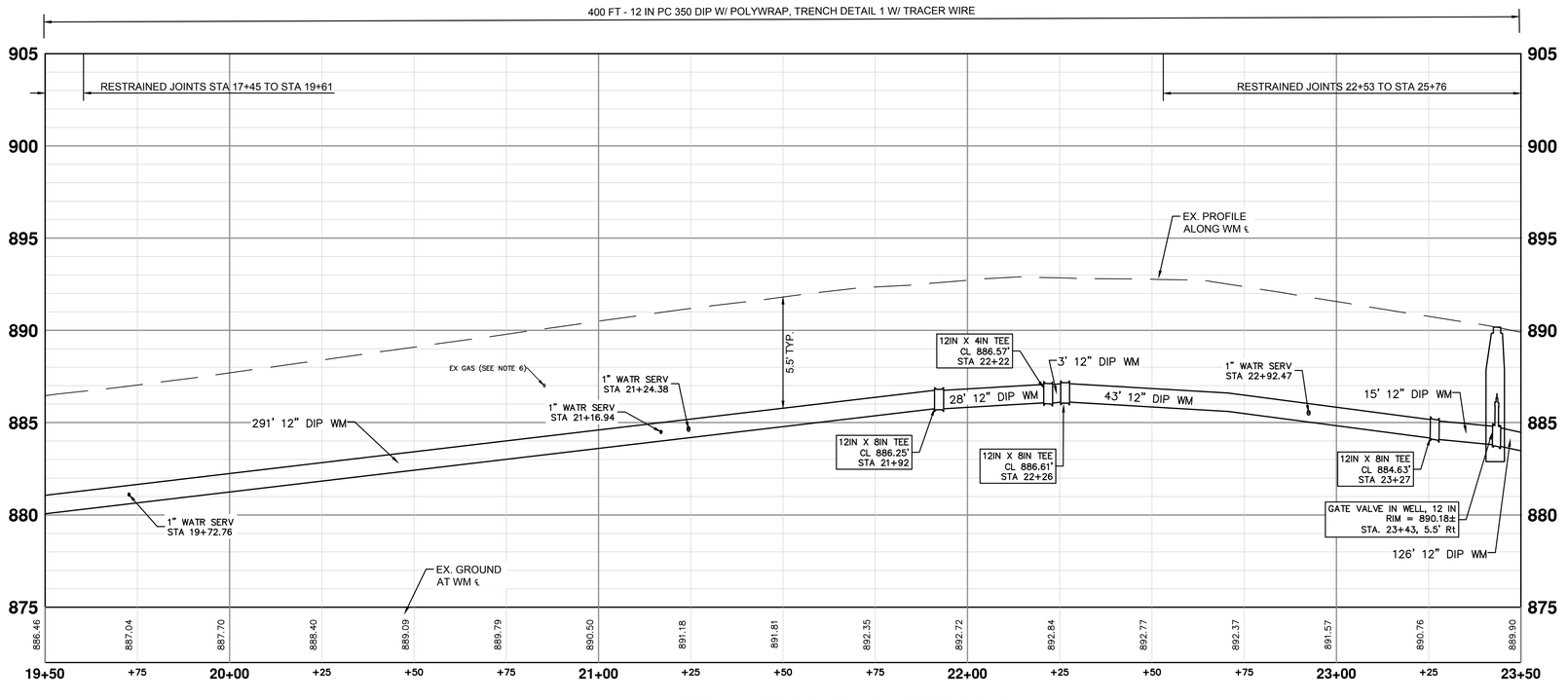
DRAWING No. 2025-015-20

SHEET No. 20 OF 44

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WATER MAIN PLAN - WASHTENAW AVENUE - STA 19+50 TO STA 23+50



WATER MAIN PROFILE - STA 19+50 TO STA 23+50

RESTRAINED JOINT LIMITS DESIGNED PER DIPRA. SEE SHEET 34 FOR TABLE AND NOTES.

WATER QUANTITIES - THIS SHEET

Item	Quantity	Unit
4 In., PC 350 DIP w/polywrap, SD-TD-1	26	Ft
6 In., PC 350 DIP w/polywrap, SD-TD-1	2	Ft
8 In., PC 350 DIP w/polywrap, SD-TD-1	85	Ft
12 In., PC 350 DIP w/polywrap, SD-TD-1	400	Ft
4 In. 45° DIP Bend	2	Ea
8 In. 11.25° DIP Bend	1	Ea
8 In. 22.5° DIP Bend	2	Ea
8 In. 45° DIP Bend	1	Ea
8 In. X 6 In. DIP Reducer	2	Ea
12 In. X 12 In. X 4 In. DIP Tee	1	Ea
12 In. X 12 In. X 8 In. DIP Tee	3	Ea
Gate Valve in Box, 8 In.	1	Ea
DS_Gate Valve In Box, 4 In.	1	Ea
Gate Valve In Well, 8 In.	1	Ea
Gate Valve In Well, 12 In.	1	Ea
Excavate & Backfill For Water Service Tap And Lead	21	Ft
Fire Hydrant Assembly, Complete	1	Ea

WATER MAIN STRUCTURE TABLE

STRUCTURE	TYPE	STATION	RIM
GV – 10	8 in. GVIB	21+91	892.83
GV – 11	4 in. GVIB	22+18	892.57
GV – 12	8 in. Gate Valve in Well	23+27	890.56
GV – 13	12 in. Gate Valve in Well	23+43	890.18

HYDRANT(s) TABLE

STRUCTURE	TYPE	STATION	FG
HYD – 3	HYDRANT ASSEMBLY, COMPLETE	22+27	892.48

NOTES

6. DEPTH OF ALL GAS MAINS, TELECOMMUNICATION AND ELECTRIC LINES UNKNOWN. PIPES SHOWN IN PROFILES AT AN ASSUMED 3 FT DEPTH, AND ABANDONED WATER MAIN AT AN ASSUMED 5.5 FT OF COVER, FOR CROSSING LOCATION ONLY. CONTRACTOR TO FIELD VERIFY EXACT LOCATION AND DEPTH.

Know what's below. Call before you dig.

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
5	–	–	–	–
4	–	–	–	–
3	FINAL SUBMITTAL	11/17/2026	AJ	AL
2	90% SUBMITTAL	10/15/2026	AJ	AL/DD
1	70% SUBMITTAL	02/20/2026	AJ/RD	AL/CH

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WASHTENAW AVE. WATER MAIN REPLACEMENT PROJECT

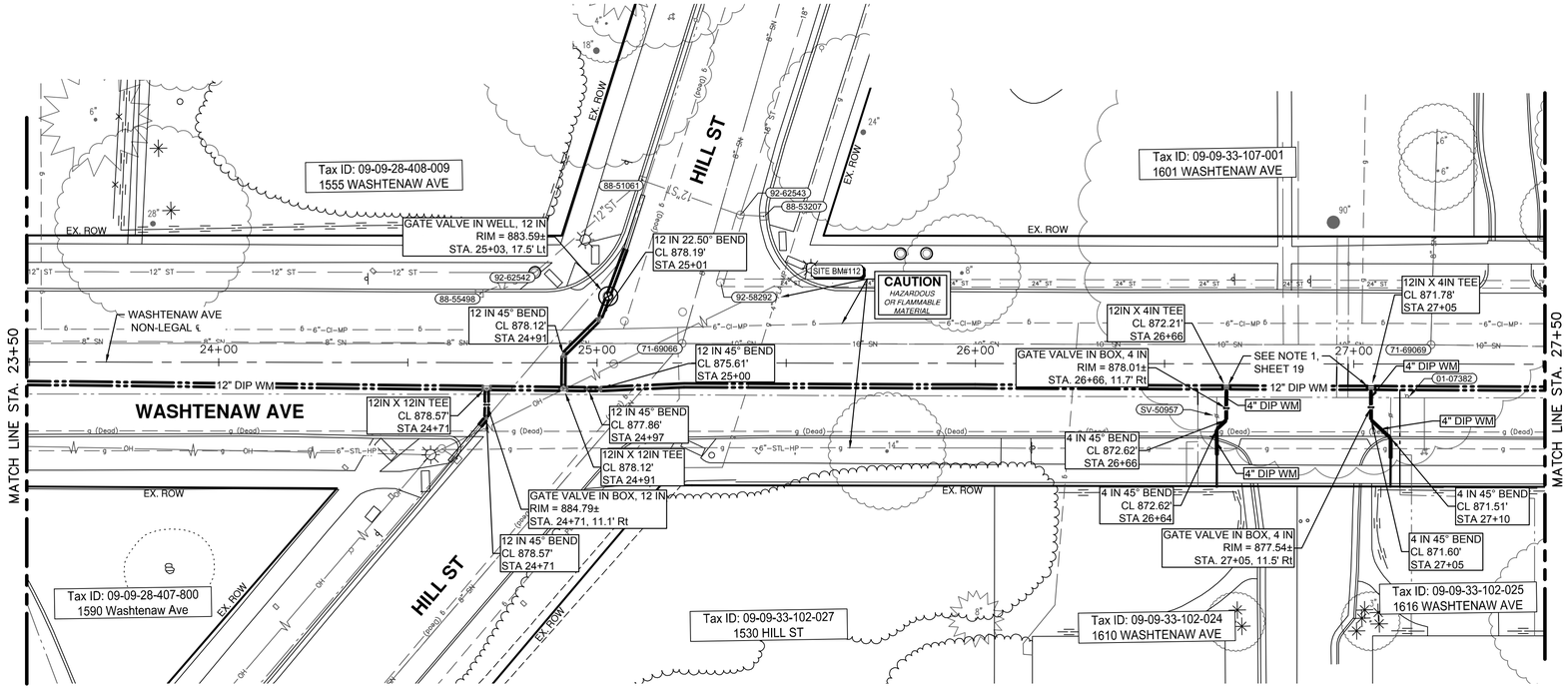
WATER MAIN PLAN & PROFILE - STA 19+50 TO STA 23+50

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

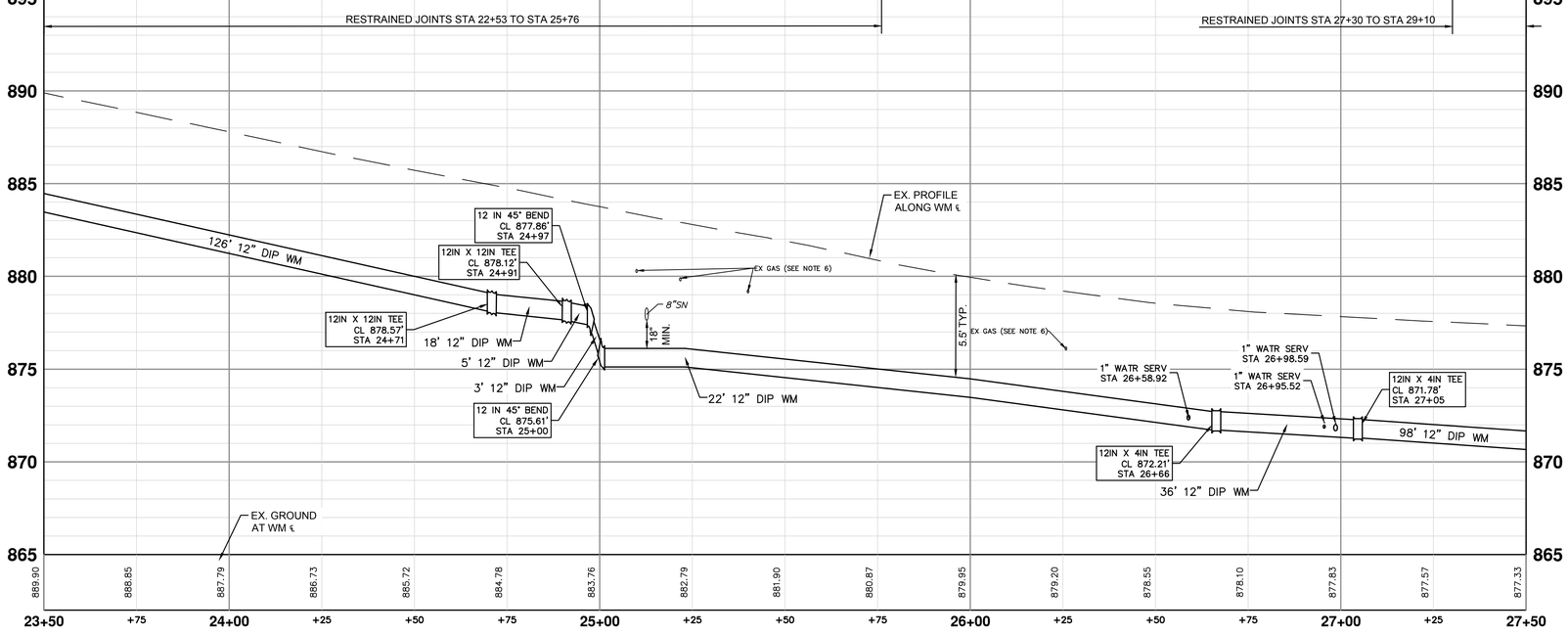
DRAWING No. 2025-015-21

SHEET No. 21 OF 44

J:\AA\Design\AA25002 – Washtenaw Ave Watermain\Ann Arbor Cads\Plan Production\AA25002_Watr_1.dwg Dwg Created: 15-Oct-26 – _a2 standard bw.stb – Plot Date: 12-Nov-26



WATER MAIN PLAN - WASHTENAW AVENUE - STA 23+50 TO STA 27+50



WATER MAIN PROFILE - STA 23+50 TO STA 27+50

RESTRAINED JOINT LIMITS DESIGNED PER DIPRA. SEE SHEET 34 FOR TABLE AND NOTES.

WATER QUANTITIES - THIS SHEET

Item	Quantity	Unit
4 In., PC 350 DIP w/polywrap, SD-TD-1	40	Ft
12 In., PC 350 DIP w/polywrap, SD-TD-1	452	Ft
4 In. 45° DIP Bend	4	Ea
12 In. 22.5° DIP Bend	1	Ea
12 In. 45° DIP Bend	4	Ea
12 In. X 12 In. X 12 In. DIP Tee	2	Ea
12 In. X 12 In. X 4 In. DIP Tee	2	Ea
Gate Valve in Box, 12 In.	1	Ea
DS_Gate Valve In Box, 4 In.	2	Ea
Gate Valve In Well, 12 In.	1	Ea
Excavate & Backfill For Water Service Tap And Lead	14	Ft

WATER MAIN STRUCTURE TABLE

STRUCTURE	TYPE	STATION	RIM
GV – 14	12 in. GVIB	24+71	884.79
GV – 15	12 in. Gate Valve in Well	25+03	883.59
GV – 16	4 in. GVIB	26+66	878.01
GV – 17	4 in. GVIB	27+05	877.54

NOTES

6. DEPTH OF ALL GAS MAINS, TELECOMMUNICATION AND ELECTRIC LINES UNKNOWN. PIPES SHOWN IN PROFILES AT AN ASSUMED 3 FT DEPTH, AND ABANDONED WATER MAIN AT AN ASSUMED 5.5 FT OF COVER, FOR CROSSING LOCATION ONLY. CONTRACTOR TO FIELD VERIFY EXACT LOCATION AND DEPTH.

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

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
5	–	–	–	–
4	–	–	–	–
3	FINAL SUBMITTAL	11/17/2026	AJ	AL
2	90% SUBMITTAL	10/15/2026	AJ	AL/DD
1	70% SUBMITTAL	02/20/2026	AJ/RD	AL/CH

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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

WASHTENAW AVE. WATER MAIN REPLACEMENT PROJECT

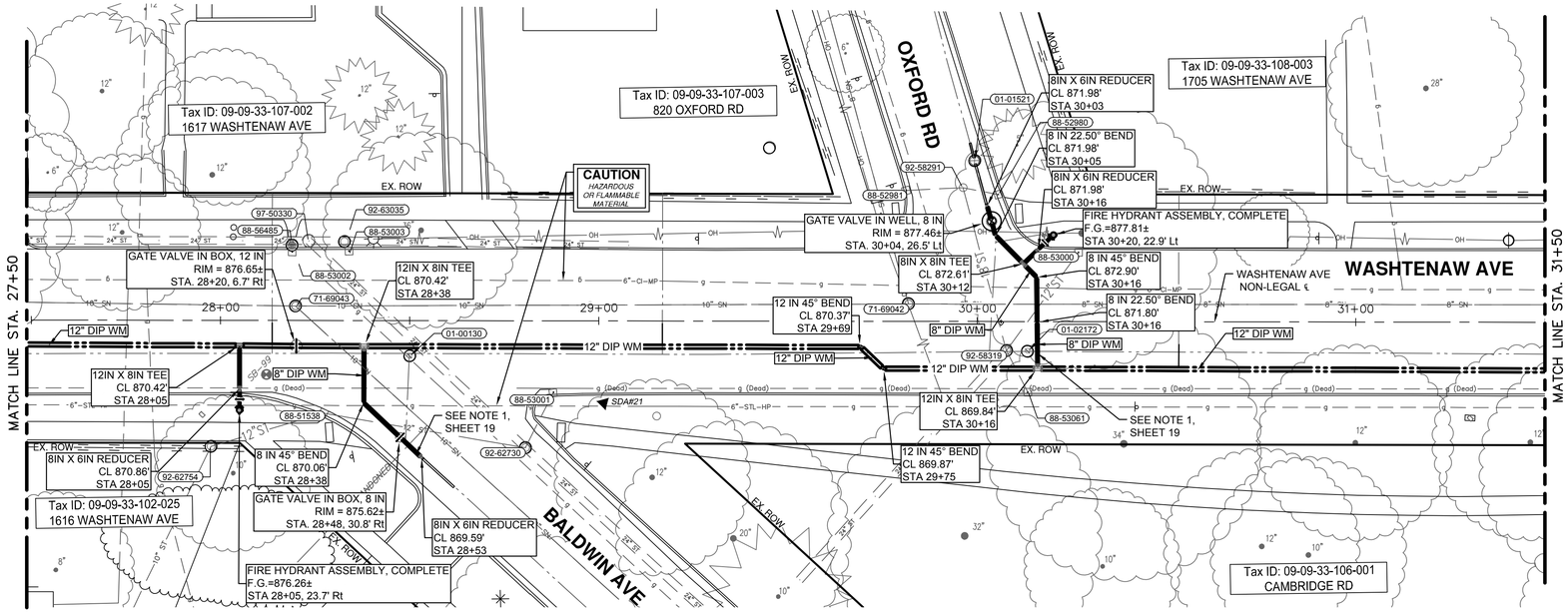
WATER MAIN PLAN & PROFILE - STA 23+50 TO STA 27+50

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

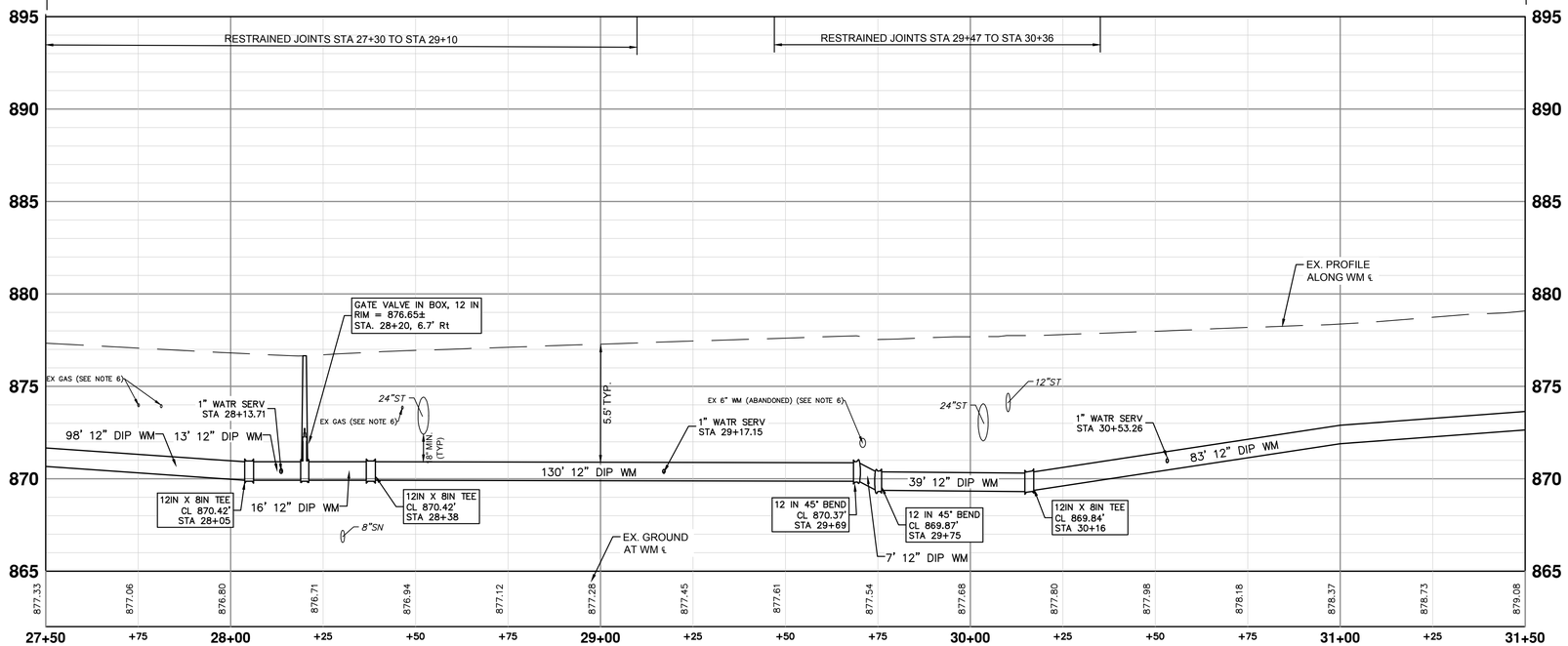
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SHEET No. 22 OF 44

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WATER MAIN PLAN - WASHTENAW AVENUE - STA 27+50 TO STA 31+50



WATER MAIN PROFILE - STA 27+50 TO STA 31+50

RESTRAINED JOINT LIMITS DESIGNED PER DIPRA. SEE SHEET 34 FOR TABLE AND NOTES.

WATER QUANTITIES - THIS SHEET

Item	Quantity	Unit
6 In., PC 350 DIP w/polywrap, SD-TD-1	4	Ft
8 In., PC 350 DIP w/polywrap, SD-TD-1	106	Ft
12 In., PC 350 DIP w/polywrap, SD-TD-1	404	Ft
8 In. 22.5° DIP Bend	2	Ea
8 In. 45° DIP Bend	2	Ea
12 In. 45° DIP Bend	2	Ea
8 In. X 6 In. DIP Reducer	4	Ea
8 In. X 8 In. X 8 In. DIP Tee	1	Ea
12 In. X 12 In. X 8 In. DIP Tee	3	Ea
Gate Valve in Box, 8 In.	1	Ea
Gate Valve in Box, 12 In.	1	Ea
Gate Valve In Well, 8 In.	1	Ea
Excavate & Backfill For Water Service Tap And Lead	20	Ft
Fire Hydrant Assembly, Complete	2	Ea
Fire Hydrant, Extension	1	Ft

WATER MAIN STRUCTURE TABLE

STRUCTURE	TYPE	STATION	RIM
GV – 18	12 in. GVIB	28+20	876.65
GV – 19	8 in. GVIB	28+48	875.62
GV – 20	8 in. Gate Valve in Well	30+04	877.46

HYDRANT(s) TABLE

STRUCTURE	TYPE	STATION	FG
HYD – 4	HYDRANT ASSEMBLY, COMPLETE	28+05	876.26
HYD – 5	HYDRANT ASSEMBLY, COMPLETE	30+20	877.81

NOTES

6. DEPTH OF ALL GAS MAINS, TELECOMMUNICATION AND ELECTRIC LINES UNKNOWN. PIPES SHOWN IN PROFILES AT AN ASSUMED 3 FT DEPTH, AND ABANDONED WATER MAIN AT AN ASSUMED 5.5 FT OF COVER, FOR CROSSING LOCATION ONLY. CONTRACTOR TO FIELD VERIFY EXACT LOCATION AND DEPTH.

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

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
5	–	–	–	–
4	–	–	–	–
3	FINAL SUBMITTAL	11/17/2026	AJ	AL
2	90% SUBMITTAL	10/15/2026	AJ	AL/DD
1	70% SUBMITTAL	02/20/2026	AJ/RD	AL/CH

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WASHTENAW AVE. WATER MAIN REPLACEMENT PROJECT

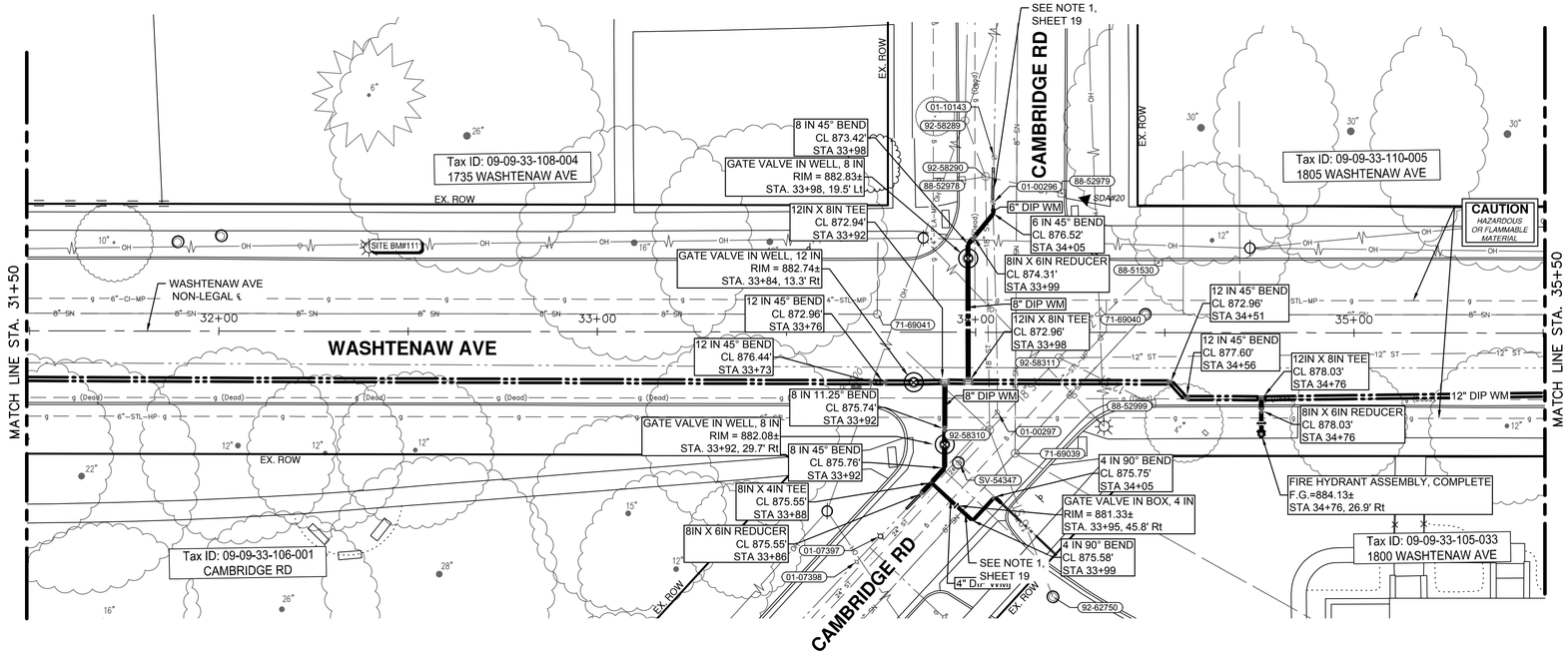
WATER MAIN PLAN & PROFILE - STA 27+50 TO STA 31+50

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

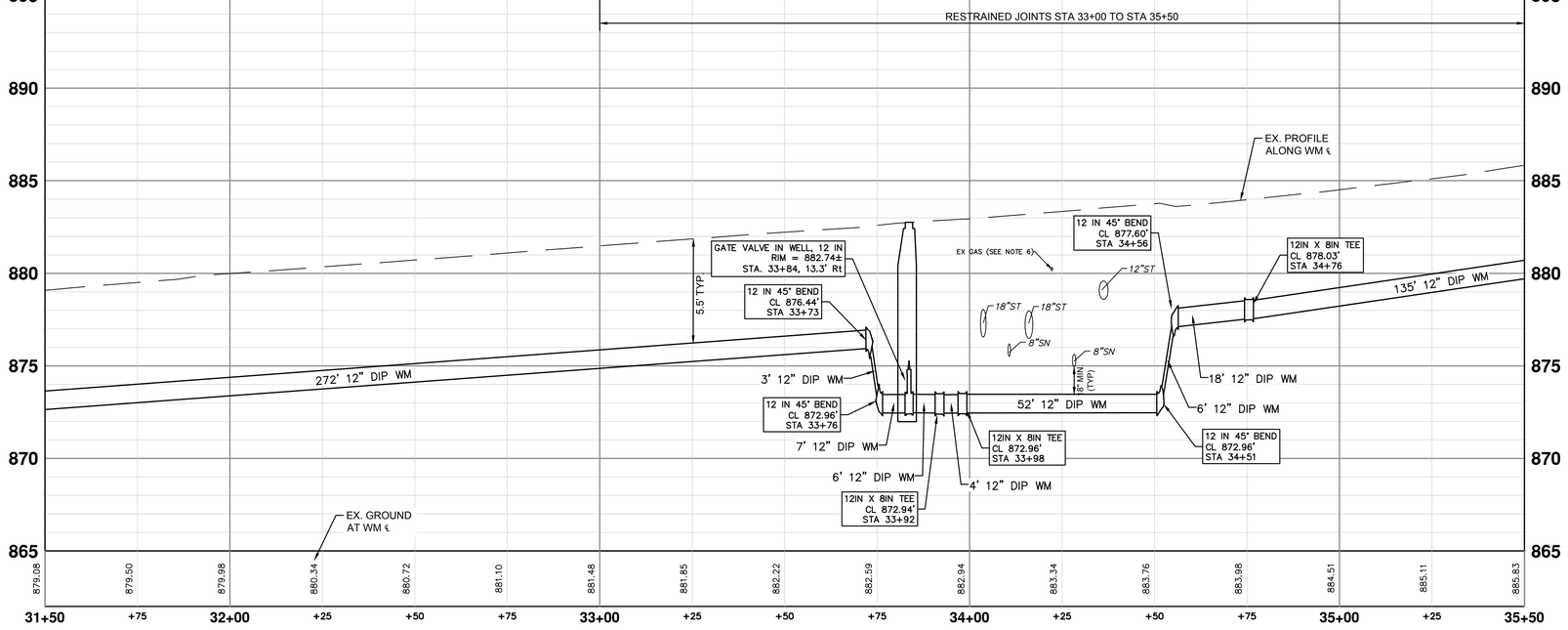
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SHEET No. 23 OF 44

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WATER MAIN PLAN - WASHTENAW AVENUE - STA 31+50 TO STA 35+50



WATER MAIN PROFILE - STA 31+50 TO STA 35+50

RESTRAINED JOINT LIMITS DESIGNED PER DIPRA. SEE SHEET 34 FOR TABLE AND NOTES.

WATER QUANTITIES - THIS SHEET

Item	Quantity	Unit
4 In., PC 350 DIP w/polywrap, SD-TD-1	26	Ft
6 In., PC 350 DIP w/polywrap, SD-TD-1	12	Ft
8 In., PC 350 DIP w/polywrap, SD-TD-1	75	Ft
12 In., PC 350 DIP w/polywrap, SD-TD-1	404	Ft
4 In. 90° DIP Bend	2	Ea
6 In. 45° DIP Bend	1	Ea
8 In. 11.25° DIP Bend	1	Ea
8 In. 45° DIP Bend	2	Ea
12 In. 45° DIP Bend	4	Ea
8 In. X 6 In. DIP Reducer	3	Ea
8 In. X 8 In. X 4 In. DIP Tee	1	Ea
12 In. X 12 In. X 8 In. DIP Tee	3	Ea
DS_Gate Valve In Box, 4 In.	1	Ea
Gate Valve In Well, 8 In.	2	Ea
Gate Valve In Well, 12 In.	1	Ea
Fire Hydrant Assembly, Complete	1	Ea
Fire Hydrant, Extension	1	Ft

WATER MAIN STRUCTURE TABLE

STRUCTURE	TYPE	STATION	RIM
GV – 21	12 in. Gate Valve in Well	33+84	882.74
GV – 22	8 in. Gate Valve in Well	33+92	882.08
GV – 23	4 in. GVIB	33+95	881.33
GV – 24	8 in. Gate Valve in Well	33+98	882.83

HYDRANT(s) TABLE

STRUCTURE	TYPE	STATION	FG
HYD – 6	HYDRANT ASSEMBLY, COMPLETE	34+76	884.13

NOTES

6. DEPTH OF ALL GAS MAINS, TELECOMMUNICATION AND ELECTRIC LINES UNKNOWN. PIPES SHOWN IN PROFILES AT AN ASSUMED 3 FT DEPTH, AND ABANDONED WATER MAIN AT AN ASSUMED 5.5 FT OF COVER, FOR CROSSING LOCATION ONLY. CONTRACTOR TO FIELD VERIFY EXACT LOCATION AND DEPTH.

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

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
5	–	–	–	–
4	–	–	–	–
3	FINAL SUBMITTAL	11/17/2026	AJ	AL
2	90% SUBMITTAL	10/15/2026	AJ	AL/DD
1	70% SUBMITTAL	02/20/2026	AJ/RD	AL/CH

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WASHTENAW AVE. WATER MAIN REPLACEMENT PROJECT

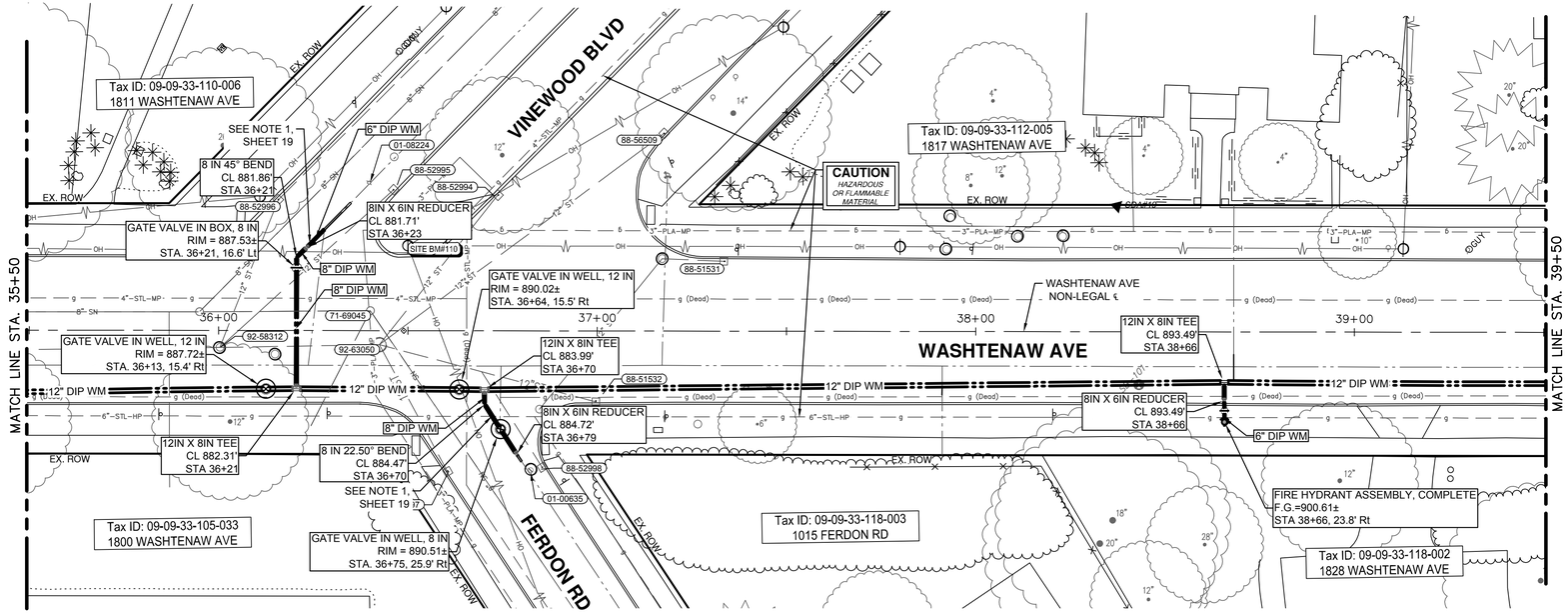
WATER MAIN PLAN & PROFILE - STA 31+50 TO STA 35+50

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

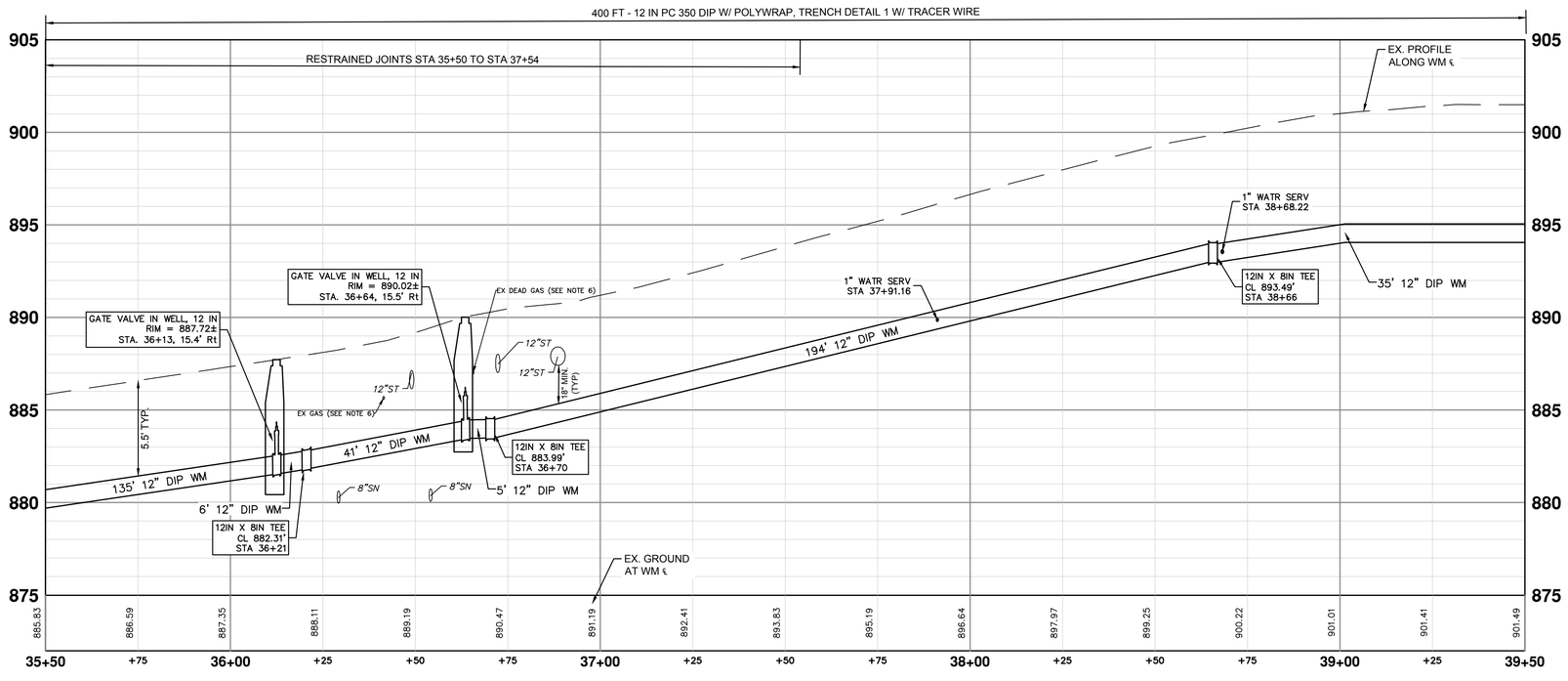
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SHEET No. 24 OF 44

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WATER MAIN PLAN - WASHTENAW AVENUE - STA 35+50 TO STA 39+50



WATER MAIN PROFILE - STA 35+50 TO STA 39+50

RESTRAINED JOINT LIMITS DESIGNED PER DIPRA. SEE SHEET 34 FOR TABLE AND NOTES.

WATER QUANTITIES - THIS SHEET

Item	Quantity	Unit
6 In., PC 350 DIP w/polywrap, SD-TD-1	9	Ft
8 In., PC 350 DIP w/polywrap, SD-TD-1	64	Ft
12 In., PC 350 DIP w/polywrap, SD-TD-1	400	Ft
8 In. 22.5° DIP Bend	1	Ea
8 In. 45° DIP Bend	1	Ea
8 In. X 6 In. DIP Reducer	3	Ea
12 In. X 12 In. X 8 In. DIP Tee	3	Ea
Gate Valve in Box, 8 In.	1	Ea
Gate Valve In Well, 8 In.	1	Ea
Gate Valve In Well, 12 In.	2	Ea
Excavate & Backfill For Water Service Tap And Lead	9	Ft
Fire Hydrant Assembly, Complete	1	Ea
Fire Hydrant, Extension	1	Ft

WATER MAIN STRUCTURE TABLE

STRUCTURE	TYPE	STATION	RIM
GV – 25	12 in. Gate Valve in Well	36+13	887.72
GV – 26	8 in. GVIB	36+21	887.53
GV – 27	12 in. Gate Valve in Well	36+64	890.02
GV – 28	8 in. Gate Valve in Well	36+75	890.51

HYDRANT(s) TABLE

STRUCTURE	TYPE	STATION	FG
HYD – 7	HYDRANT ASSEMBLY, COMPLETE	38+66	900.61

NOTES

6. DEPTH OF ALL GAS MAINS, TELECOMMUNICATION AND ELECTRIC LINES UNKNOWN. PIPES SHOWN IN PROFILES AT AN ASSUMED 3 FT DEPTH, AND ABANDONED WATER MAIN AT AN ASSUMED 5.5 FT OF COVER, FOR CROSSING LOCATION ONLY. CONTRACTOR TO FIELD VERIFY EXACT LOCATION AND DEPTH.

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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
5	–	–	–	–
4	–	–	–	–
3	FINAL SUBMITTAL	11/17/2026	AJ	AL
2	90% SUBMITTAL	10/15/2026	AJ	AL/DD
1	70% SUBMITTAL	02/20/2026	AJ/RD	AL/CH

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WASHTENAW AVE. WATER MAIN REPLACEMENT PROJECT

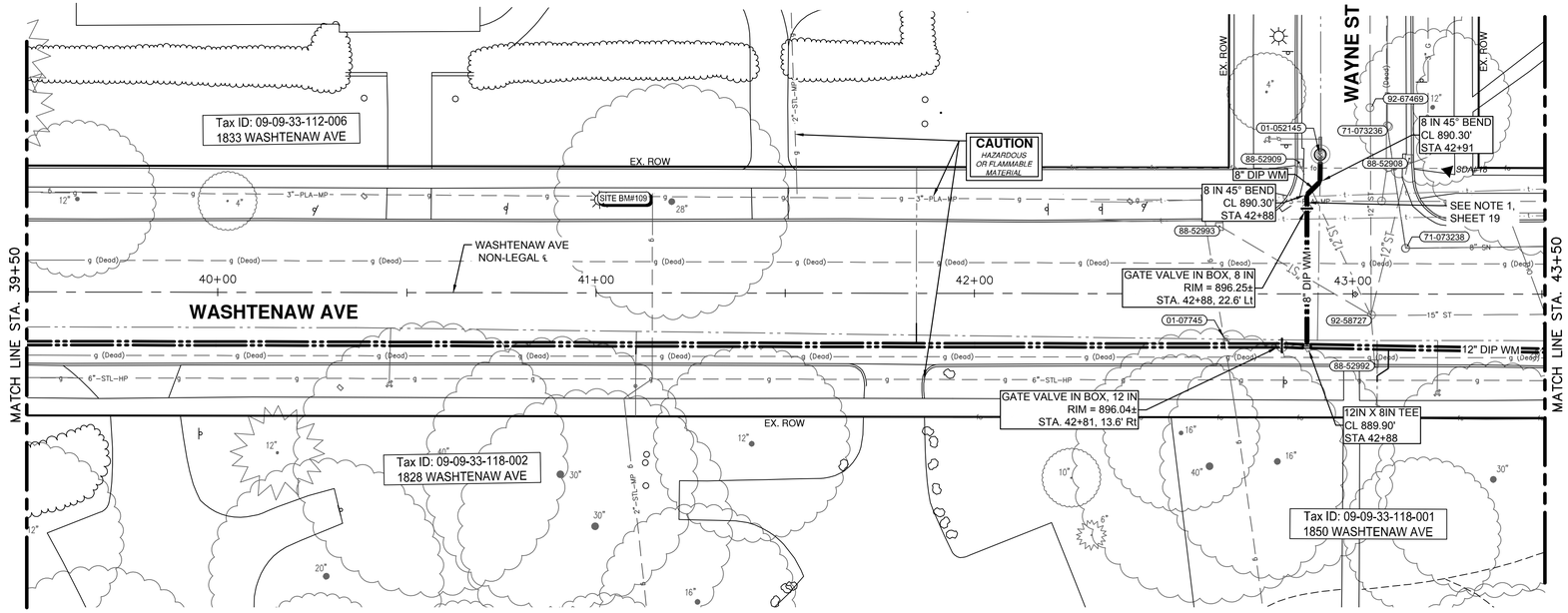
WATER MAIN PLAN & PROFILE - STA 35+50 TO STA 39+50

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

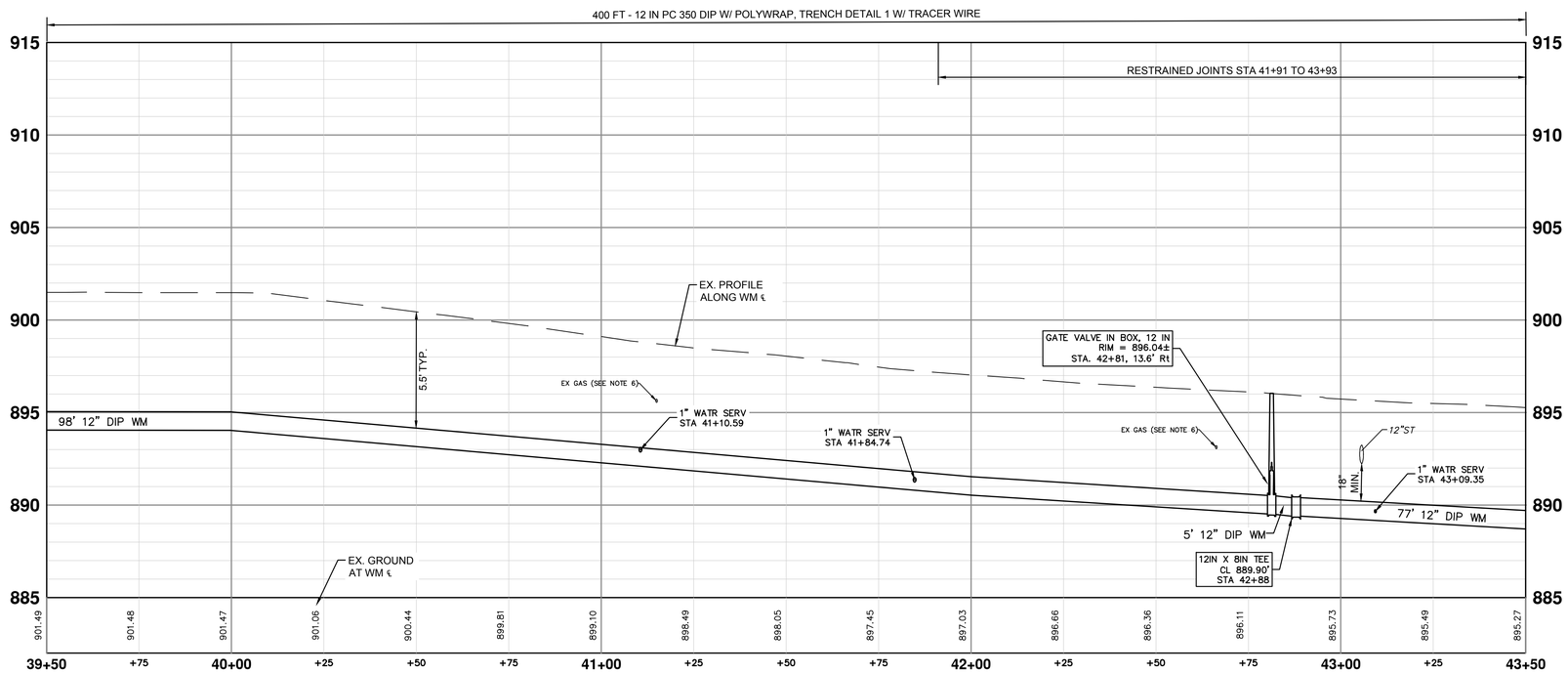
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SHEET No. 25 OF 44

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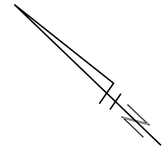


WATER MAIN PLAN - WASHTENAW AVENUE - STA 39+50 TO STA 43+50



WATER MAIN PROFILE - STA 39+50 TO STA 43+50

RESTRAINED JOINT LIMITS DESIGNED PER DIPRA. SEE SHEET 34 FOR TABLE AND NOTES.



WATER QUANTITIES - THIS SHEET

Item	Quantity	Unit
8 In., PC 350 DIP w/polywrap, SD-TD-1	50	Ft
12 In., PC 350 DIP w/polywrap, SD-TD-1	400	Ft
8 In. 45° DIP Bend	2	Ea
12 In. X 12 In. X 8 In. DIP Tee	1	Ea
Gate Valve in Box, 8 In.	1	Ea
Gate Valve in Box, 12 In.	1	Ea
Excavate & Backfill For Water Service Tap And Lead	17	Ft

WATER MAIN STRUCTURE TABLE

STRUCTURE	TYPE	STATION	RIM
GV – 29	12 in. GVIB	42+81	896.04
GV – 30	8 in. GVIB	42+88	896.25

NOTES

6. DEPTH OF ALL GAS MAINS, TELECOMMUNICATION AND ELECTRIC LINES UNKNOWN. PIPES SHOWN IN PROFILES AT AN ASSUMED 3 FT DEPTH, AND ABANDONED WATER MAIN AT AN ASSUMED 5.5 FT OF COVER, FOR CROSSING LOCATION ONLY. CONTRACTOR TO FIELD VERIFY EXACT LOCATION AND DEPTH.

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

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
5	–	–	–	–
4	–	–	–	–
3	FINAL SUBMITTAL	11/17/2026	AJ	AL
2	90% SUBMITTAL	10/15/2026	AJ	AL/DD
1	70% SUBMITTAL	02/20/2026	AJ/RD	AL/CH

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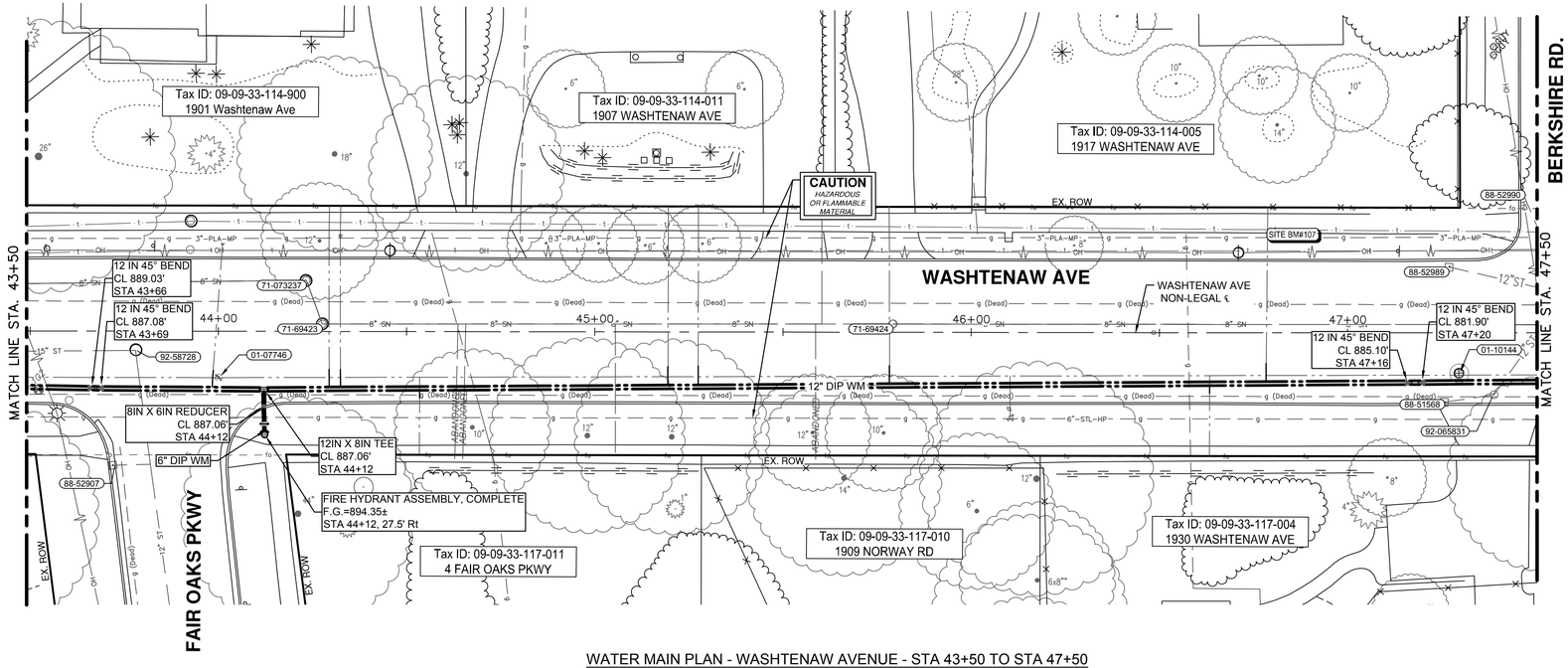
WATER MAIN PLAN & PROFILE - STA 39+50 TO STA 43+50

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

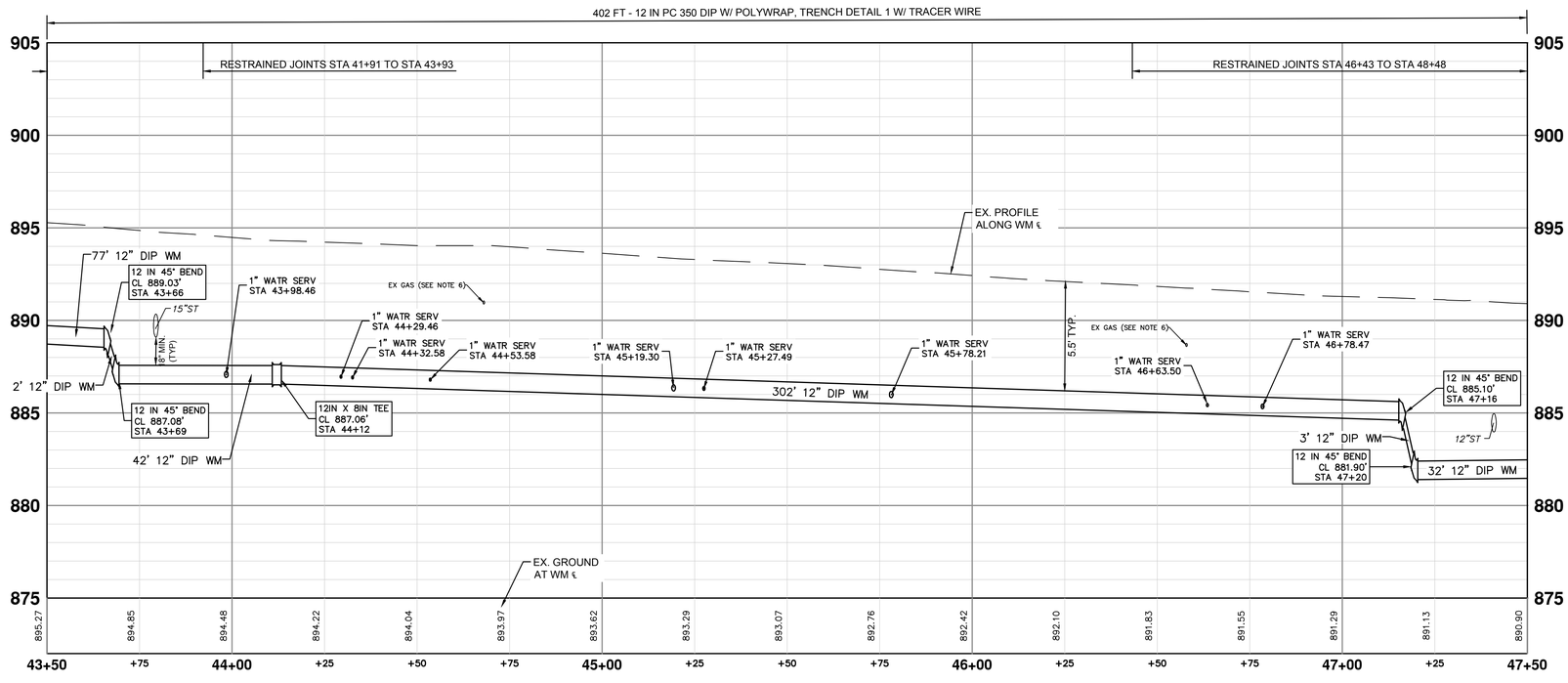
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SHEET No. 26 OF 44

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WATER MAIN PLAN - WASHTENAW AVENUE - STA 43+50 TO STA 47+50



WATER MAIN PROFILE - STA 43+50 TO STA 47+50

RESTRAINED JOINT LIMITS DESIGNED PER DIPRA. SEE SHEET 34 FOR TABLE AND NOTES.

WATER QUANTITIES - THIS SHEET

Item	Quantity	Unit
6 In., PC 350 DIP w/polywrap, SD-TD-1	2	Ft
8 In., PC 350 DIP w/polywrap, SD-TD-1	6	Ft
12 In., PC 350 DIP w/polywrap, SD-TD-1	400	Ft
12 In. 45° DIP Bend	4	Ea
8 In. X 6 In. DIP Reducer	1	Ea
12 In. X 12 In. X 8 In. DIP Tee	1	Ea
Excavate & Backfill For Water Service Tap And Lead	39	Ft
Fire Hydrant Assembly, Complete	1	Ea
Fire Hydrant, Extension	2	Ft

HYDRANT(s) TABLE

STRUCTURE	TYPE	STATION	FG
HYD – 8	HYDRANT ASSEMBLY, COMPLETE	44+12	894.35

NOTES

6. DEPTH OF ALL GAS MAINS, TELECOMMUNICATION AND ELECTRIC LINES UNKNOWN. PIPES SHOWN IN PROFILES AT AN ASSUMED 3 FT DEPTH, AND ABANDONED WATER MAIN AT AN ASSUMED 5.5 FT OF COVER, FOR CROSSING LOCATION ONLY. CONTRACTOR TO FIELD VERIFY EXACT LOCATION AND DEPTH.

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

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
5	–	–	–	–
4	–	–	–	–
3	FINAL SUBMITTAL	11/17/2026	AJ	AL
2	90% SUBMITTAL	10/15/2026	AJ	AL/DD
1	70% SUBMITTAL	02/20/2026	AJ/RD	AL/CH

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WASHTENAW AVE. WATER MAIN
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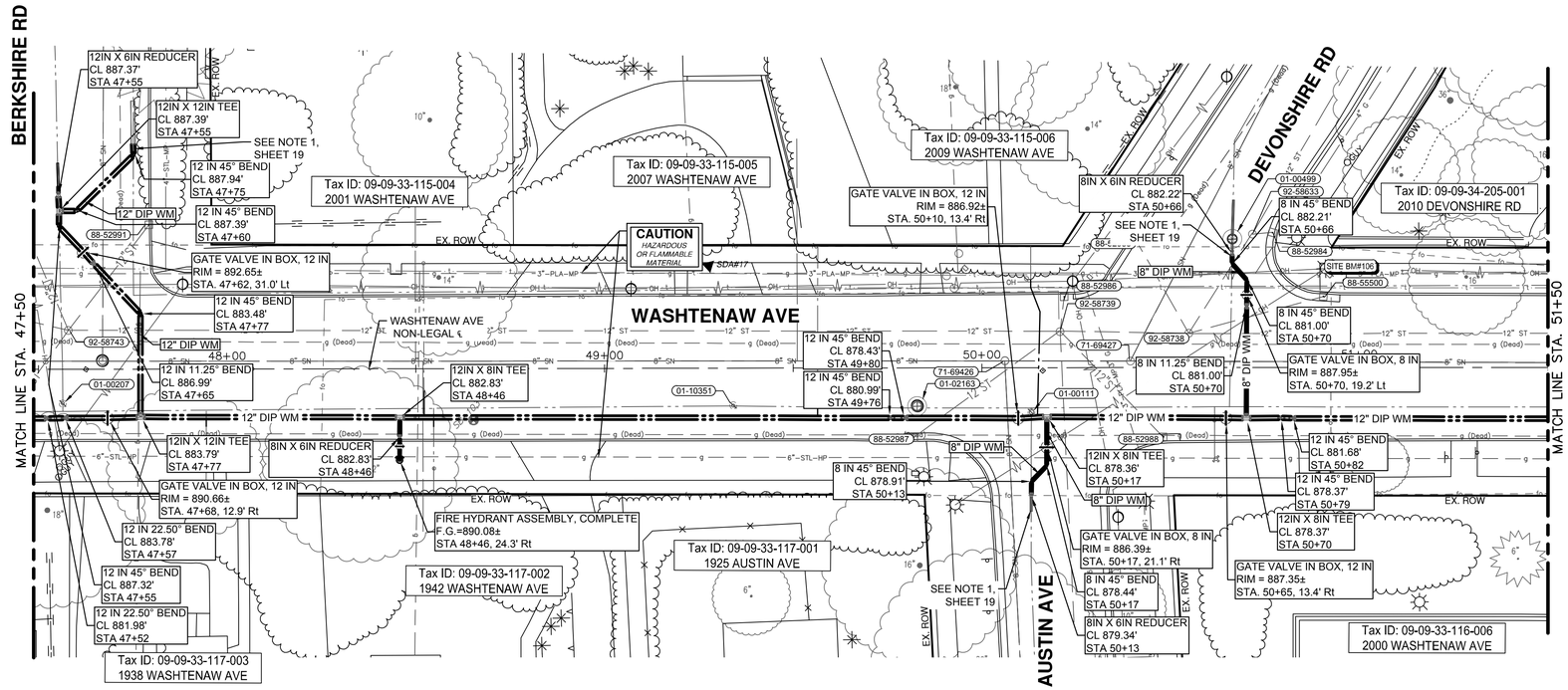
WATER MAIN PLAN & PROFILE - STA 43+50 TO STA 47+50

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

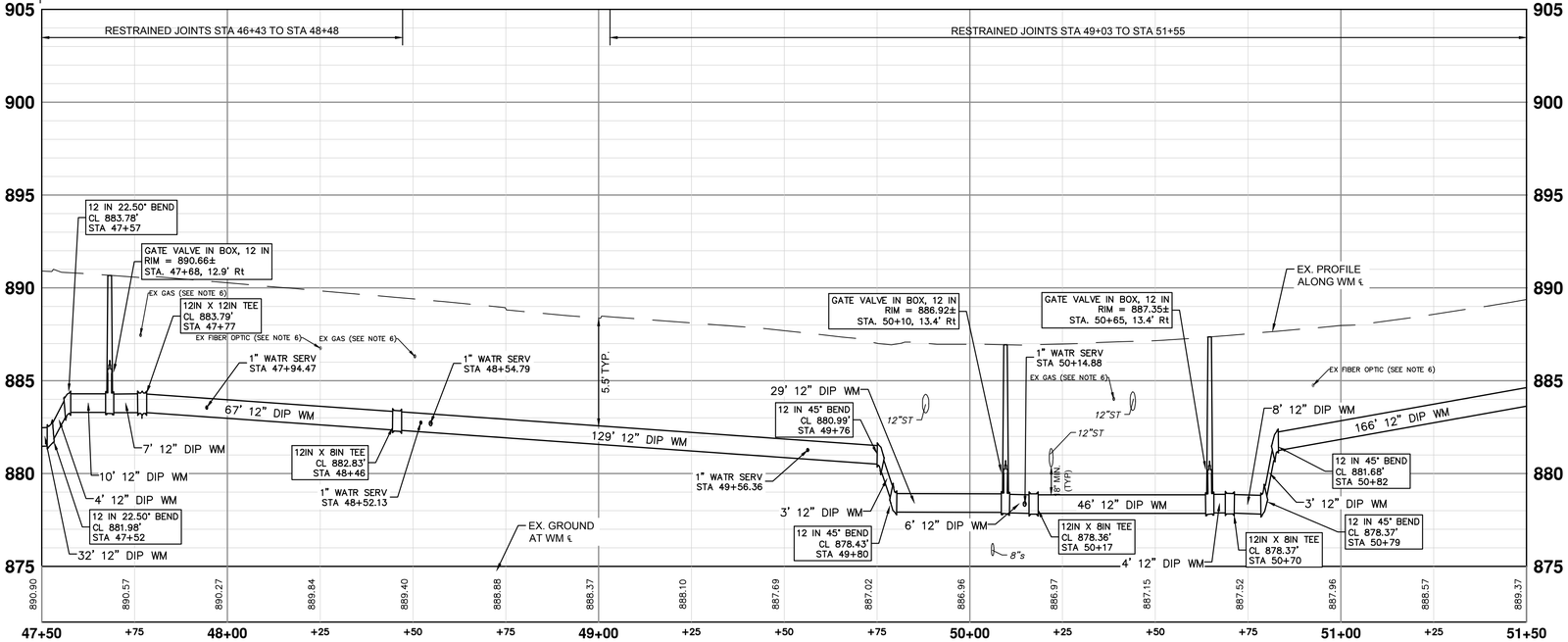
DRAWING No.
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SHEET No.
27 OF 44

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WATER MAIN PLAN - WASHTENAW AVENUE - STA 47+50 TO STA 51+50



WATER MAIN PROFILE - STA 47+50 TO STA 51+50

RESTRAINED JOINT LIMITS DESIGNED PER DIPRA. SEE SHEET 34 FOR TABLE AND NOTES.

WATER QUANTITIES - THIS SHEET

Item	Quantity	Unit
6 In., PC 350 DIP w/polywrap, SD-TD-1	3	Ft
8 In., PC 350 DIP w/polywrap, SD-TD-1	76	Ft
12 In., PC 350 DIP w/polywrap, SD-TD-1	495	Ft
8 In. 11.25° DIP Bend	1	Ea
8 In. 45° DIP Bend	4	Ea
12 In. 11.25° DIP Bend	1	Ea
12 In. 22.5° DIP Bend	2	Ea
12 In. 45° DIP Bend	8	Ea
8 In. X 6 In. DIP Reducer	3	Ea
12 In. X 6 In. DIP Reducer	1	Ea
12 In. X 12 In. X 8 In. DIP Tee	3	Ea
12 In. X 12 In. X 12 In. DIP Tee	2	Ea
Gate Valve in Box, 8 In.	2	Ea
Gate Valve in Box, 12 In.	4	Ea
Excavate & Backfill For Water Service Tap And Lead	53	Ft
Fire Hydrant Assembly, Complete	1	Ea
Fire Hydrant, Extension	2	Ft

WATER MAIN STRUCTURE TABLE

STRUCTURE	TYPE	STATION	RIM
GV – 31	12 in. GVIB	47+62	892.65
GV – 32	12 in. GVIB	47+68	890.66
GV – 33	12 in. GVIB	50+10	886.92
GV – 34	8 in. GVIB	50+17	886.39
GV – 35	12 in. GVIB	50+65	887.35
GV – 36	8 in. GVIB	50+70	887.95

HYDRANT(s) TABLE

STRUCTURE	TYPE	STATION	FG
HYD – 9	HYDRANT ASSEMBLY, COMPLETE	48+46	890.08

NOTES

6. DEPTH OF ALL GAS MAINS, TELECOMMUNICATION AND ELECTRIC LINES UNKNOWN. PIPES SHOWN IN PROFILES AT AN ASSUMED 3 FT DEPTH, AND ABANDONED WATER MAIN AT AN ASSUMED 5.5 FT OF COVER, FOR CROSSING LOCATION ONLY. CONTRACTOR TO FIELD VERIFY EXACT LOCATION AND DEPTH.

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

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
5	–	–	–	–
4	–	–	–	–
3	FINAL SUBMITTAL	11/17/2026	AJ	AL
2	90% SUBMITTAL	10/15/2026	AJ	AL/DD
1	70% SUBMITTAL	02/20/2026	AJ/RD	AL/CH

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WASHTENAW AVE. WATER MAIN REPLACEMENT PROJECT

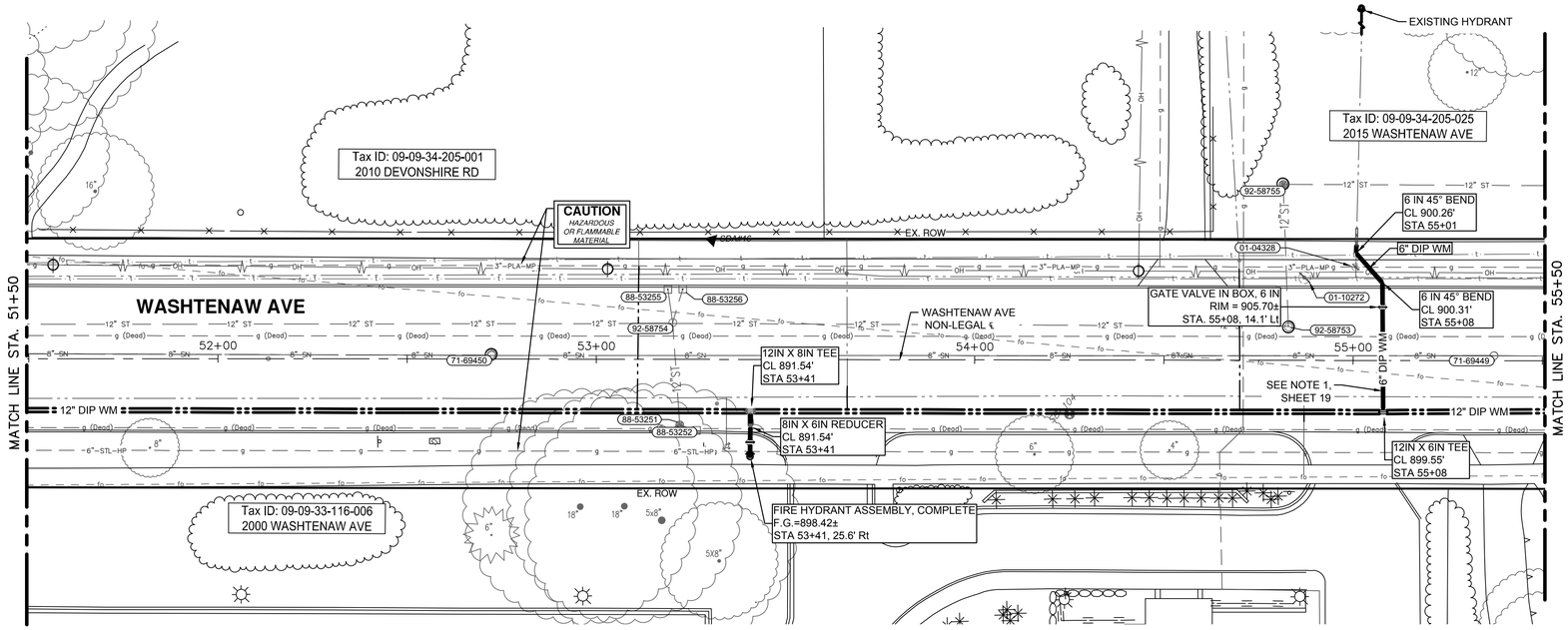
WATER MAIN PLAN & PROFILE - STA 47+50 TO STA 51+50

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

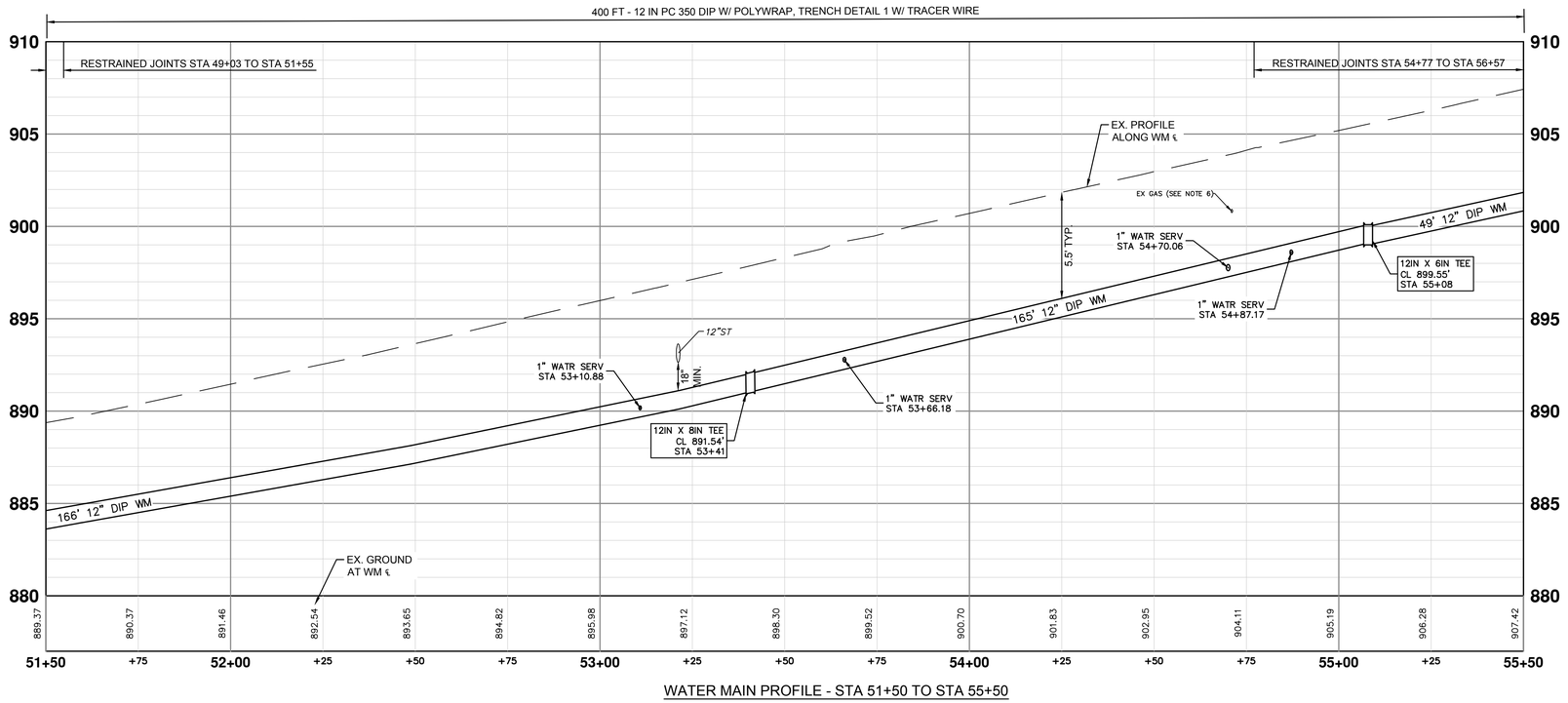
DRAWING No. 2025-015-28

SHEET No. 28 OF 44

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WATER MAIN PLAN - WASHTENAW AVENUE - STA 51+50 TO STA 55+50



WATER MAIN PROFILE - STA 51+50 TO STA 55+50

RESTRAINED JOINT LIMITS DESIGNED PER DIPRA. SEE SHEET 34 FOR TABLE AND NOTES.

WATER QUANTITIES - THIS SHEET

Item	Quantity	Unit
6 In., PC 350 DIP w/polywrap, SD-TD-1	49	Ft
8 In., PC 350 DIP w/polywrap, SD-TD-1	6	Ft
12 In., PC 350 DIP w/polywrap, SD-TD-1	400	Ft
6 In. 45° DIP Bend	2	Ea
8 In. X 6 In. DIP Reducer	1	Ea
12 In. X 12 In. X 6 In. DIP Tee	1	Ea
12 In. X 12 In. X 8 In. DIP Tee	1	Ea
Gate Valve In Box, 6 In.	1	Ea
Excavate & Backfill For Water Service Tap And Lead	89	Ft
Fire Hydrant Assembly, Complete	1	Ea
Fire Hydrant, Extension	1	Ft

WATER MAIN STRUCTURE TABLE

STRUCTURE	TYPE	STATION	RIM
GV – 37	6 in. GVIB	55+08	905.70

HYDRANT(s) TABLE

STRUCTURE	TYPE	STATION	FG
HYD – 10	HYDRANT ASSEMBLY, COMPLETE	53+41	898.42

NOTES

6. DEPTH OF ALL GAS MAINS, TELECOMMUNICATION AND ELECTRIC LINES UNKNOWN. PIPES SHOWN IN PROFILES AT AN ASSUMED 3 FT DEPTH, AND ABANDONED WATER MAIN AT AN ASSUMED 5.5 FT OF COVER, FOR CROSSING LOCATION ONLY. CONTRACTOR TO FIELD VERIFY EXACT LOCATION AND DEPTH.

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

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
5	–	–	–	–
4	–	–	–	–
3	FINAL SUBMITTAL	11/17/2026	AJ	AL
2	90% SUBMITTAL	10/15/2026	AJ	AL/DD
1	70% SUBMITTAL	02/20/2026	AJ/RD	AL/CH

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WASHTENAW AVE. WATER MAIN REPLACEMENT PROJECT

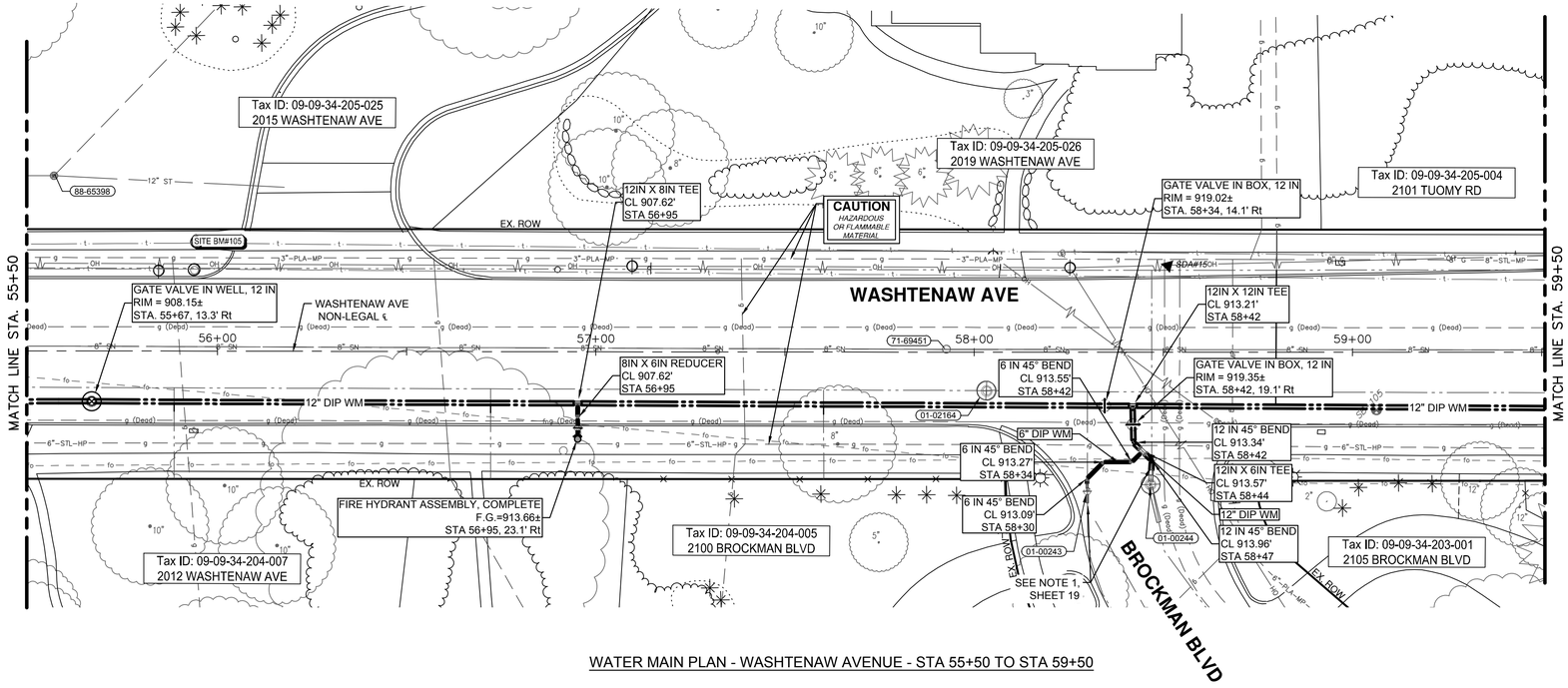
WATER MAIN PLAN & PROFILE - STA 51+50 TO STA 55+50

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

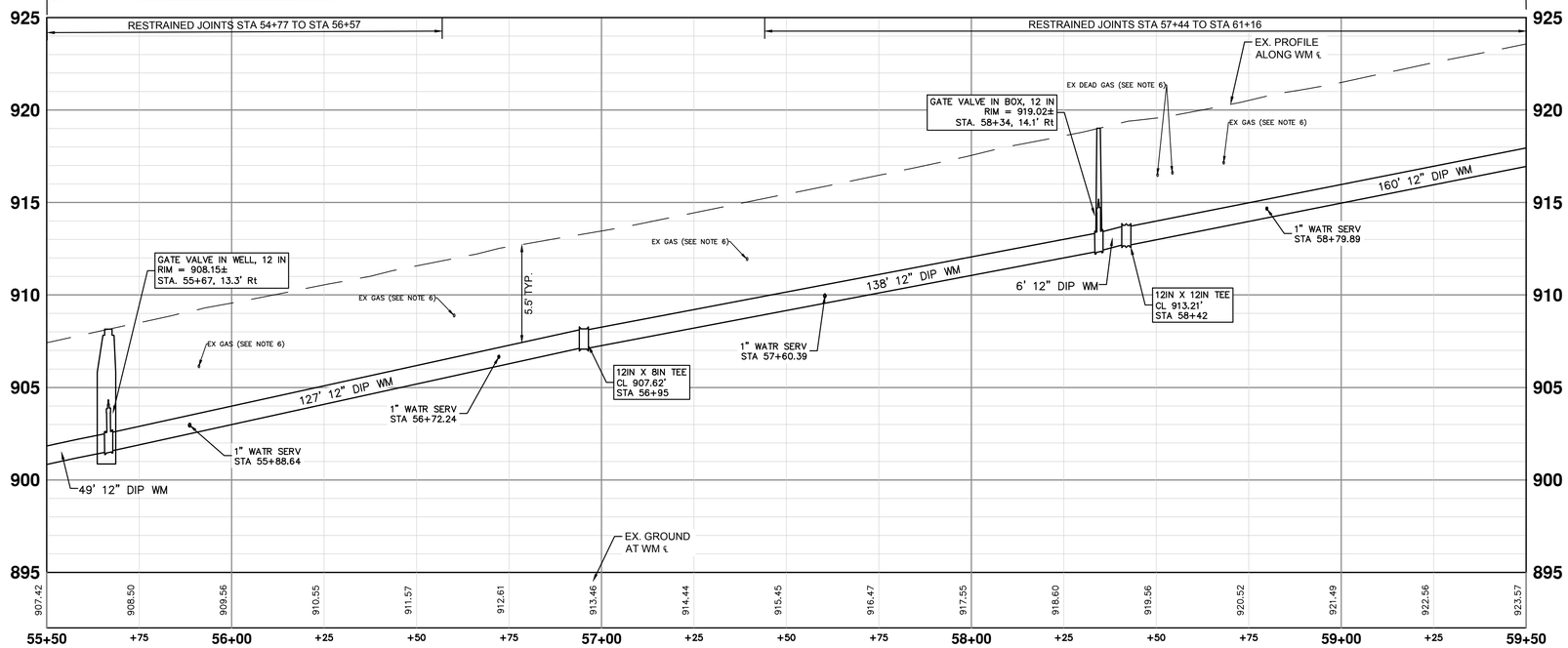
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SHEET No. 29 OF 44

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WATER MAIN PLAN - WASHTENAW AVENUE - STA 55+50 TO STA 59+50



WATER MAIN PROFILE - STA 55+50 TO STA 59+50

RESTRAINED JOINT LIMITS DESIGNED PER DIPRA. SEE SHEET 34 FOR TABLE AND NOTES.

WATER QUANTITIES - THIS SHEET

Item	Quantity	Unit
6 In., PC 350 DIP w/polywrap, SD-TD-1	22	Ft
8 In., PC 350 DIP w/polywrap, SD-TD-1	6	Ft
12 In., PC 350 DIP w/polywrap, SD-TD-1	420	Ft
6 In. 45° DIP Bend	3	Ea
12 In. 45° DIP Bend	2	Ea
8 In. X 6 In. DIP Reducer	1	Ea
12 In. X 12 In. X 6 In. DIP Tee	1	Ea
12 In. X 12 In. X 8 In. DIP Tee	1	Ea
12 In. X 12 In. X 12 In. DIP Tee	1	Ea
Gate Valve in Box, 12 In.	2	Ea
Gate Valve In Well, 12 In.	1	Ea
Excavate & Backfill For Water Service Tap And Lead	41	Ft
Fire Hydrant Assembly, Complete	1	Ea

WATER MAIN STRUCTURE TABLE

STRUCTURE	TYPE	STATION	RIM
GV – 38	12 in. Gate Valve in Well	55+67	908.15
GV – 39	12 in. GVIB	58+34	919.02
GV – 40	12 in. GVIB	58+42	919.35

HYDRANT(s) TABLE

STRUCTURE	TYPE	STATION	FG
HYD – 11	HYDRANT ASSEMBLY, COMPLETE	56+95	913.66

NOTES

6. DEPTH OF ALL GAS MAINS, TELECOMMUNICATION AND ELECTRIC LINES UNKNOWN. PIPES SHOWN IN PROFILES AT AN ASSUMED 3 FT DEPTH, AND ABANDONED WATER MAIN AT AN ASSUMED 5.5 FT OF COVER, FOR CROSSING LOCATION ONLY. CONTRACTOR TO FIELD VERIFY EXACT LOCATION AND DEPTH.

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2	90% SUBMITTAL	10/15/2026	AJ	AL/DD
1	70% SUBMITTAL	02/20/2026	AJ/RD	AL/CH

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WASHTENAW AVE. WATER MAIN REPLACEMENT PROJECT

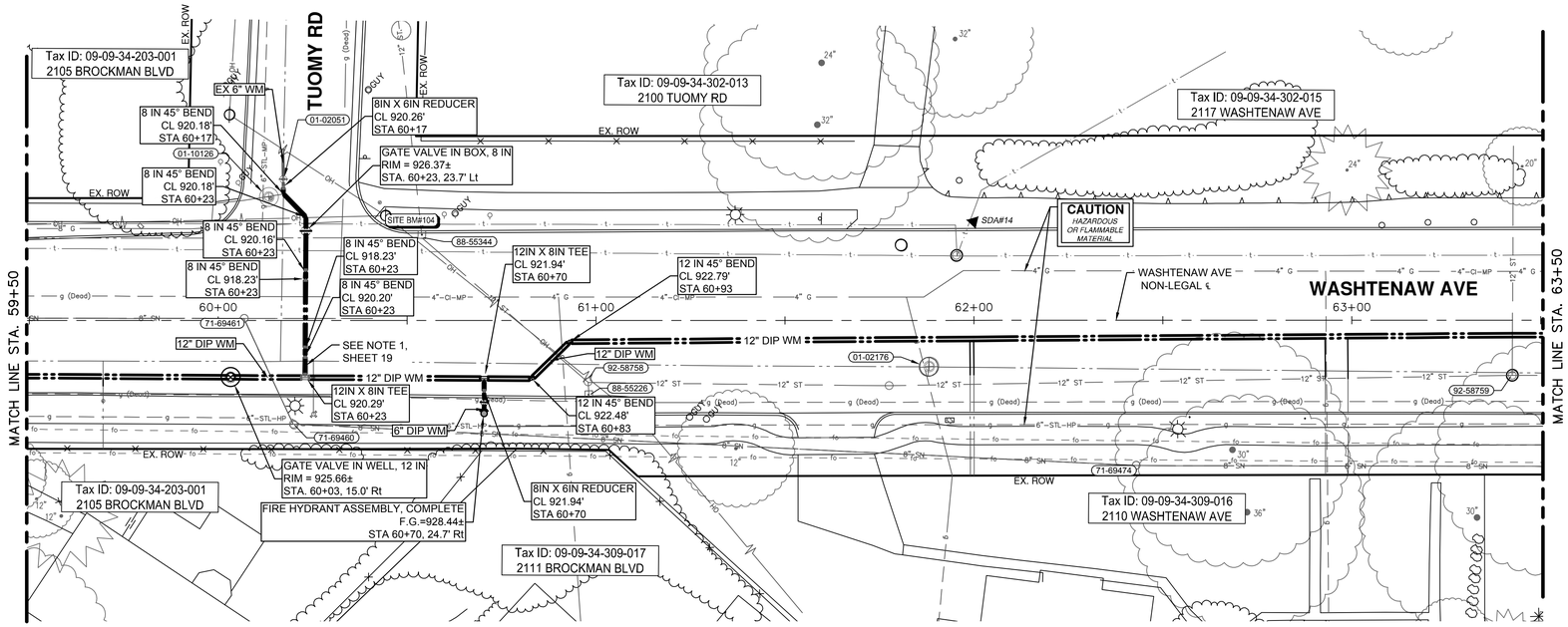
WATER MAIN PLAN & PROFILE - STA 55+50 TO STA 59+50

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

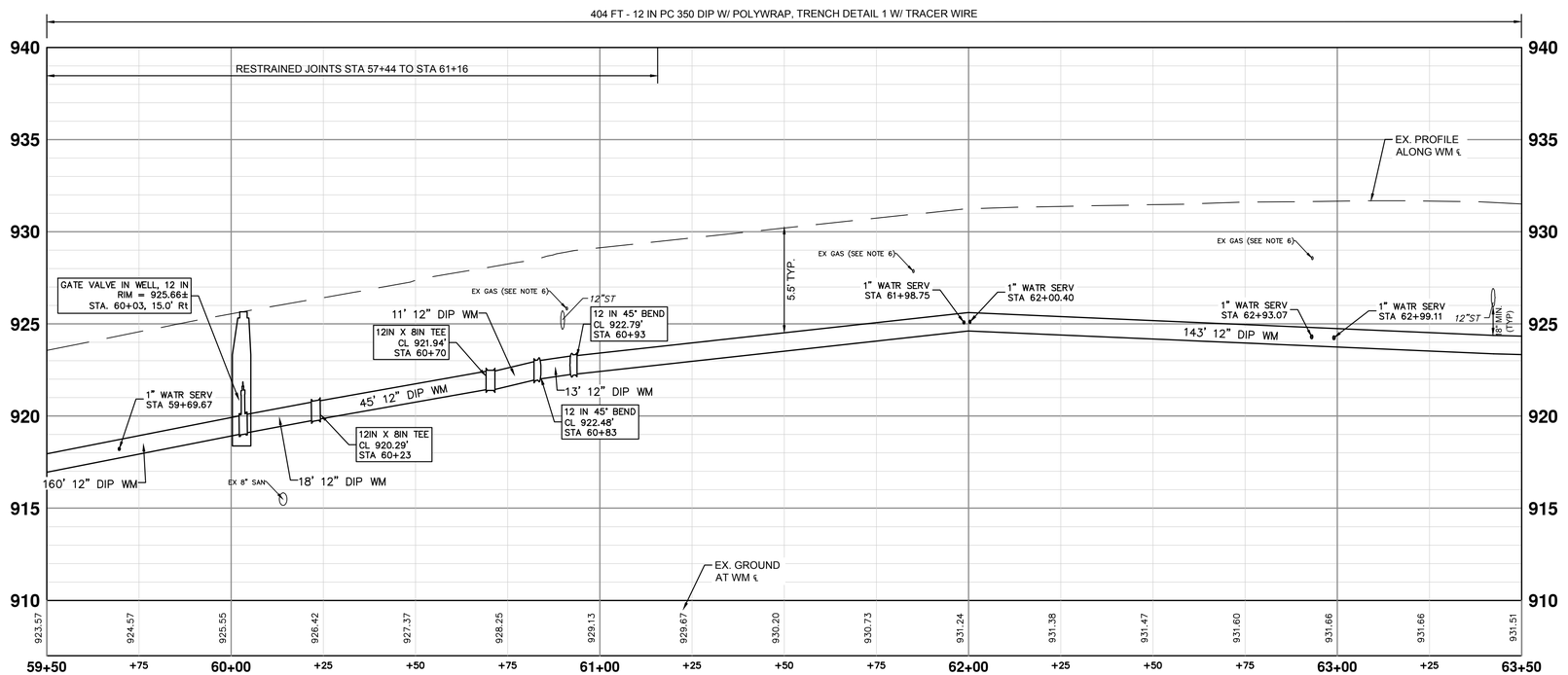
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SHEET No. 30 OF 44

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WATER MAIN PLAN - WASHTENAW AVENUE - STA 59+50 TO STA 63+50



WATER MAIN PROFILE - STA 59+50 TO STA 63+50

RESTRAINED JOINT LIMITS DESIGNED PER DIPRA. SEE SHEET 34 FOR TABLE AND NOTES.

WATER QUANTITIES - THIS SHEET

Item	Quantity	Unit
6 In., PC 350 DIP w/polywrap, SD-TD-1	2	Ft
8 In., PC 350 DIP w/polywrap, SD-TD-1	60	Ft
12 In., PC 350 DIP w/polywrap, SD-TD-1	404	Ft
8 In. 45° DIP Bend	6	Ea
12 In. 45° DIP Bend	2	Ea
8 In. X 6 In. DIP Reducer	2	Ea
12 In. X 12 In. X 8 In. DIP Tee	2	Ea
Gate Valve in Box, 8 In.	1	Ea
Gate Valve In Well, 12 In.	1	Ea
Excavate & Backfill For Water Service Tap And Lead	42	Ft
Fire Hydrant Assembly, Complete	1	Ea

WATER MAIN STRUCTURE TABLE

STRUCTURE	TYPE	STATION	RIM
GV – 41	12 in. Gate Valve in Well	60+03	925.66
GV – 42	8 in. GVIB	60+23	926.37

HYDRANT(s) TABLE

STRUCTURE	TYPE	STATION	FG
HYD – 12	HYDRANT ASSEMBLY, COMPLETE	60+70	928.44

NOTES

6. DEPTH OF ALL GAS MAINS, TELECOMMUNICATION AND ELECTRIC LINES UNKNOWN. PIPES SHOWN IN PROFILES AT AN ASSUMED 3 FT DEPTH, AND ABANDONED WATER MAIN AT AN ASSUMED 5.5 FT OF COVER, FOR CROSSING LOCATION ONLY. CONTRACTOR TO FIELD VERIFY EXACT LOCATION AND DEPTH.

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4	–	–	–	–
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2	90% SUBMITTAL	10/15/2026	AJ	AL/DD
1	70% SUBMITTAL	02/20/2026	AJ/RD	AL/CH

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WASHTENAW AVE. WATER MAIN REPLACEMENT PROJECT

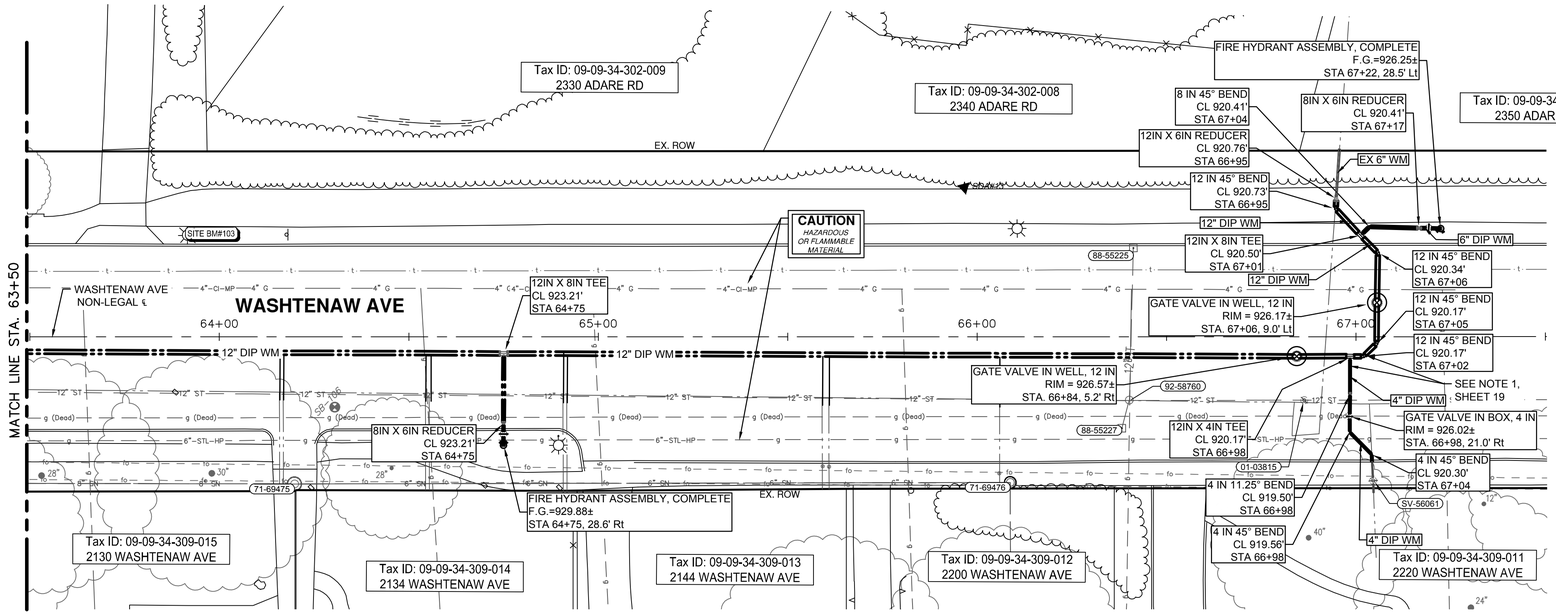
WATER MAIN PLAN & PROFILE - STA 59+50 TO STA 63+50

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

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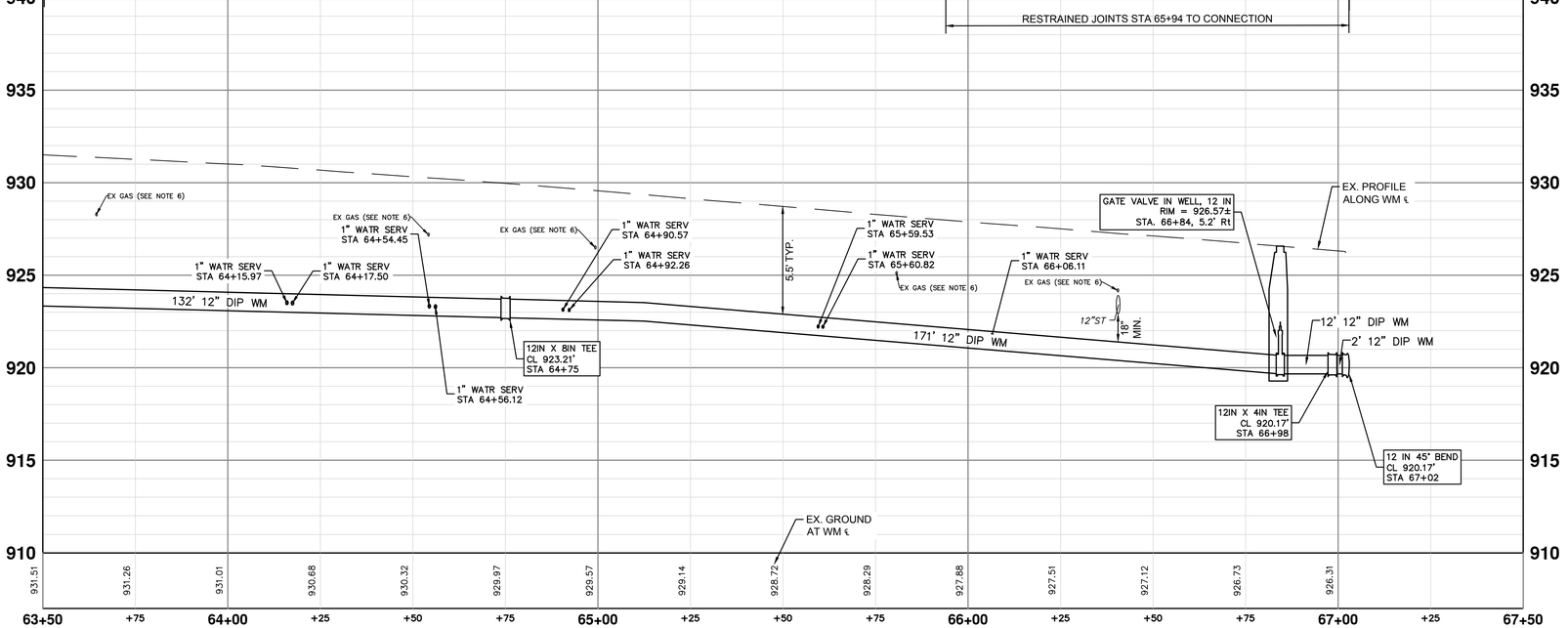
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WATER MAIN PLAN - WASHTENAW AVENUE - STA 63+50 TO STA 67+50

WATER QUANTITIES - THIS SHEET		
Item	Quantity	Unit
4 In., PC 350 DIP w/polywrap, SD-TD-1	30	Ft
6 In., PC 350 DIP w/polywrap, SD-TD-1	4	Ft
8 In., PC 350 DIP w/polywrap, SD-TD-1	37	Ft
12 In., PC 350 DIP w/polywrap, SD-TD-1	401	Ft
4 In. 11.25° DIP Bend	1	Ea
4 In. 45° DIP Bend	2	Ea
8 In. 45° DIP Bend	1	Ea
12 In. 45° DIP Bend	4	Ea
8 In. X 6 In. DIP Reducer	2	Ea
12 In. X 6 In. DIP Reducer	1	Ea
12 In. X 12 In. X 4 In. DIP Tee	1	Ea
12 In. X 12 In. X 8 In. DIP Tee	2	Ea
DS_Gate Valve In Box, 4 In.	1	Ea
Gate Valve In Well, 12 In.	2	Ea
Excavate & Backfill For Water Service Tap And Lead	108	Ft
Fire Hydrant Assembly, Complete	2	Ea
Fire Hydrant, Extension	1	Ft



WATER MAIN PROFILE - STA 63+50 TO STA 67+50

WATER MAIN STRUCTURE TABLE			
STRUCTURE	TYPE	STATION	RIM
GV – 43	12 in. Gate Valve in Well	66+84	926.57
GV – 44	4 in. GVIB	66+98	926.02
GV – 45	12 in. Gate Valve in Well	67+06	926.17

HYDRANT(s) TABLE			
STRUCTURE	TYPE	STATION	FG
HYD – 13	HYDRANT ASSEMBLY, COMPLETE	64+75	929.88
HYD – 14	HYDRANT ASSEMBLY, COMPLETE	67+22	926.25

NOTES

6. DEPTH OF ALL GAS MAINS, TELECOMMUNICATION AND ELECTRIC LINES UNKNOWN. PIPES SHOWN IN PROFILES AT AN ASSUMED 3 FT DEPTH, AND ABANDONED WATER MAIN AT AN ASSUMED 5.5 FT OF COVER, FOR CROSSING LOCATION ONLY. CONTRACTOR TO FIELD VERIFY EXACT LOCATION AND DEPTH.

RESTRAINED JOINT LIMITS DESIGNED PER DIPRA. SEE SHEET 34 FOR TABLE AND NOTES.

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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
5	–	–	–	–
4	–	–	–	–
3	FINAL SUBMITTAL	11/17/2026	AJ	AL
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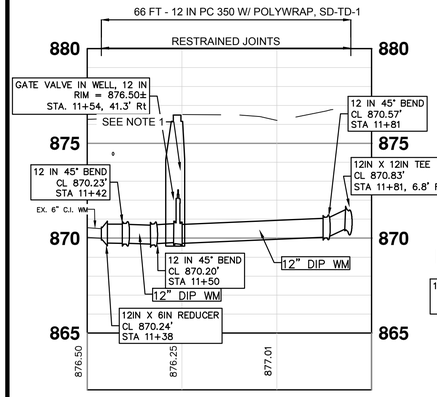
WATER MAIN PLAN & PROFILE - STA 63+50 TO P.O.E.

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

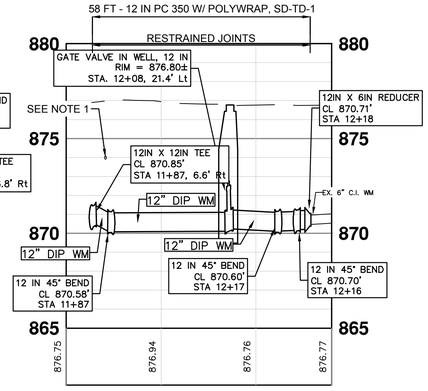
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SHEET No. 32 OF 44

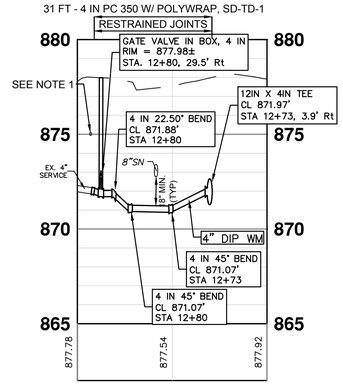
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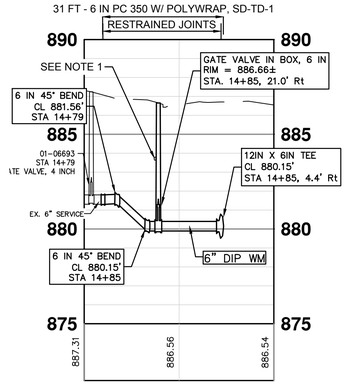
WATER MAIN CONNECTION PROFILE
STATION 11+81
(SEE SHEET 19)



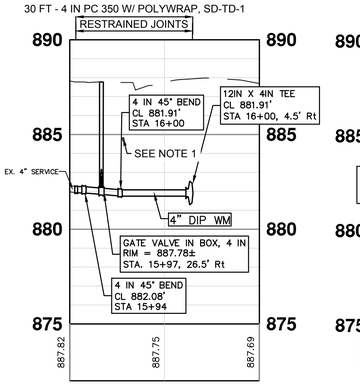
WATER MAIN CONNECTION PROFILE
STATION 11+87
(SEE SHEET 19)



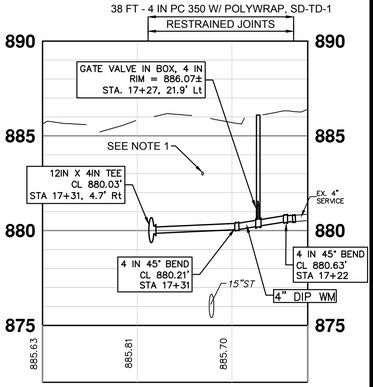
WATER MAIN CONNECTION PROFILE
STATION 12+73
(SEE SHEET 19)



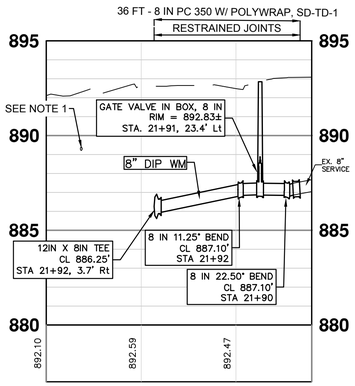
WATER MAIN CONNECTION PROFILE
STATION 14+85
(SEE SHEET 19)



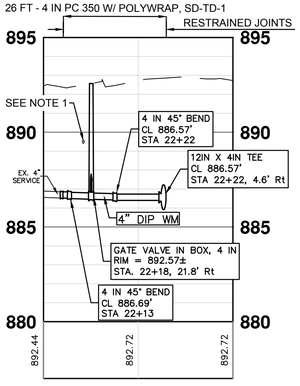
WATER MAIN CONNECTION PROFILE
STATION 16+00
(SEE SHEET 20)



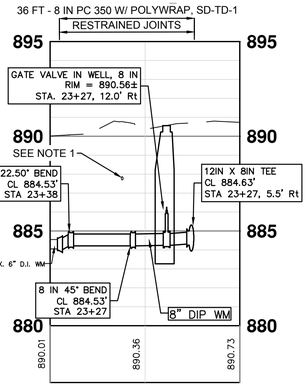
WATER MAIN CONNECTION PROFILE
STATION 17+31
(SEE SHEET 20)



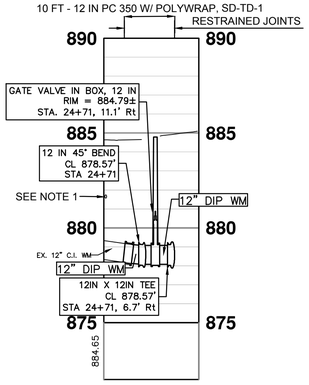
WATER MAIN CONNECTION PROFILE
STATION 21+92
(SEE SHEET 21)



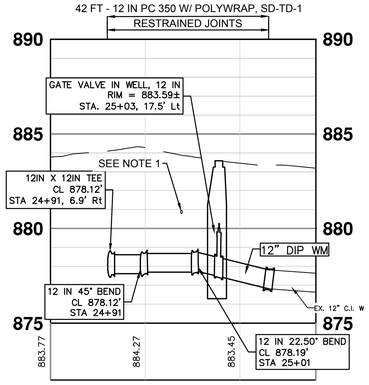
WATER MAIN CONNECTION PROFILE
STATION 22+22
(SEE SHEET 21)



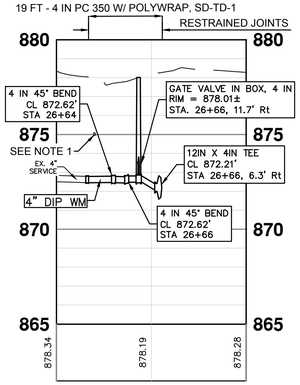
WATER MAIN CONNECTION PROFILE
STATION 23+27
(SEE SHEET 21)



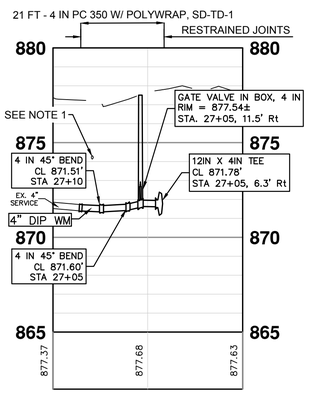
WATER MAIN CONNECTION PROFILE
STATION 24+71
(SEE SHEET 22)



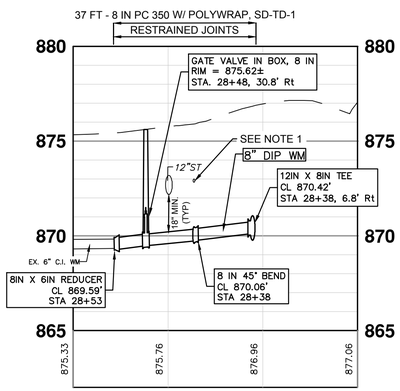
WATER MAIN CONNECTION PROFILE
STATION 24+91
(SEE SHEET 22)



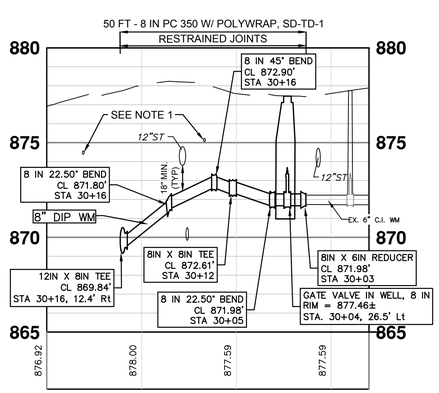
WATER MAIN CONNECTION PROFILE
STATION 26+66
(SEE SHEET 22)



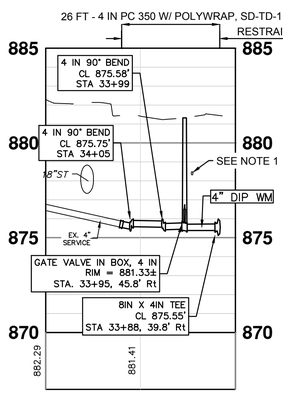
WATER MAIN CONNECTION PROFILE
STATION 27+05
(SEE SHEET 22)



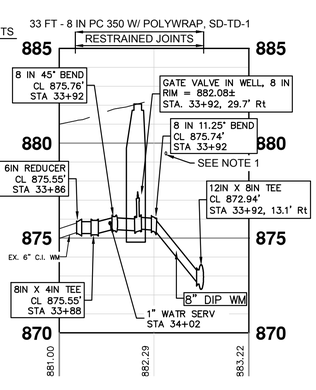
WATER MAIN CONNECTION PROFILE
STATION 28+38
(SEE SHEET 23)



WATER MAIN CONNECTION PROFILE
STATION 30+16
(SEE SHEET 23)



WATER MAIN CONNECTION PROFILE
CAMBRIDGE 4IN SERVICE
(SEE SHEET 24)



WATER MAIN CONNECTION PROFILE
STATION 33+92
(SEE SHEET 24)

NOTES

1. DEPTH OF ALL GAS MAINS, TELECOMMUNICATION AND ELECTRIC LINES UNKNOWN. PIPES SHOWN IN PROFILES AT AN ASSUMED 3 FT DEPTH FOR CROSSING LOCATION ONLY. CONTRACTOR TO FIELD VERIFY EXACT LOCATION AND DEPTH.
2. DEPTHS OF EXISTING SERVICES ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY EXACT DEPTH AND LOCATION.
3. CONNECTIONS TO EXISTING WATER MAINS SHALL BE INCLUDED IN THE UNIT PRICES FOR THE WATER MAIN PER ARTICLE 11, SUBSECTION II.OO.2 (WATER MAIN AND APPURTENANCES) OF THE CITY OF ANN ARBOR 2025 STANDARD SPECIFICATIONS FOR CONSTRUCTION .

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

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
5	–	–	–	–
4	–	–	–	–
3	FINAL SUBMITTAL	11/17/2026	AJ	AL
2	90% SUBMITTAL	10/15/2026	AJ	AL/DD
1	70% SUBMITTAL	02/20/2026	AJ/RD	AL/CH

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P.O. BOX 8647
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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

WASHTENAW AVE. WATER MAIN REPLACEMENT PROJECT

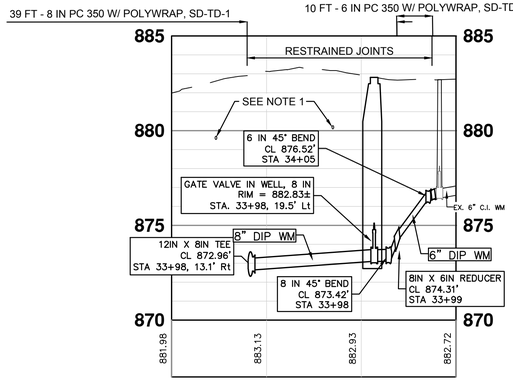
WATER MAIN TIE IN PROFILES - 1

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

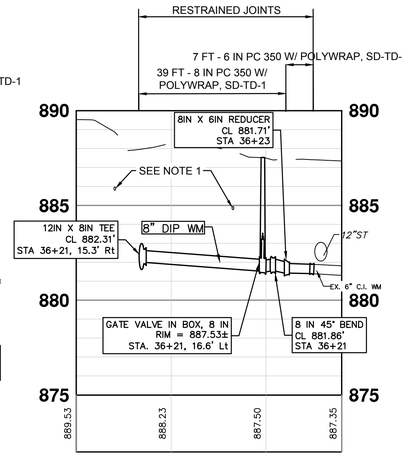
DRAWING No. 2025-015-33

SHEET No. 33 OF 44

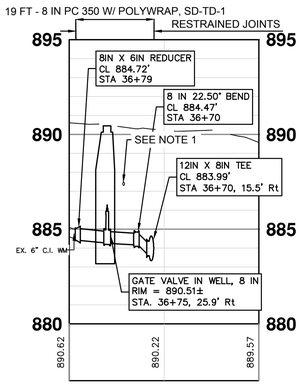
J:\AA\Design\AA25002 – Washtenaw Ave Watermain\Ann Arbor Cads\Plan Production\AA25002_Watr_2.dwg Dwg Created: 16-Oct-26 – _a2 standard bw.stb – Plot Date: 12-Nov-26



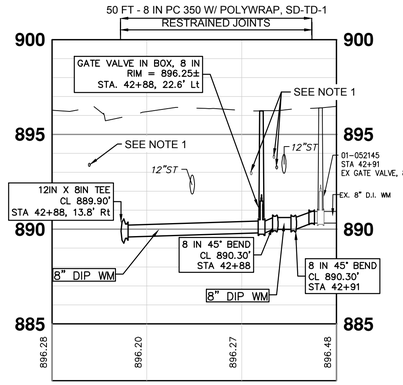
WATER MAIN CONNECTION PROFILE
STATION 33+98
(SEE SHEET 24)



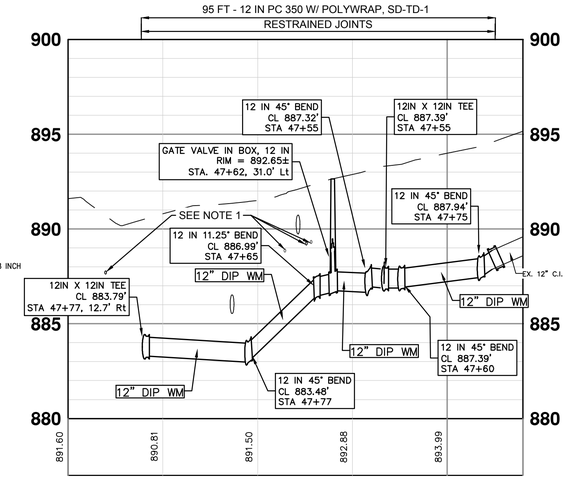
WATER MAIN CONNECTION PROFILE
STATION 36+21
(SEE SHEET 25)



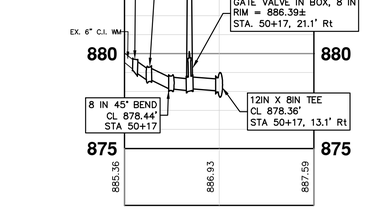
WATER MAIN CONNECTION PROFILE
STATION 36+70
(SEE SHEET 25)



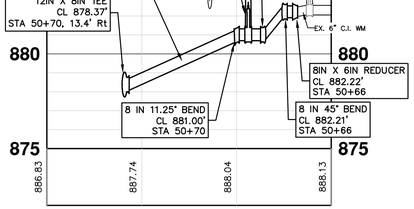
WATER MAIN CONNECTION PROFILE
STATION 42+88
(SEE SHEET 26)



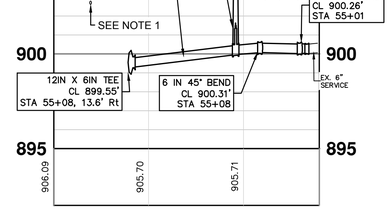
WATER MAIN CONNECTION PROFILE
STATION 47+77
(SEE SHEET 28)



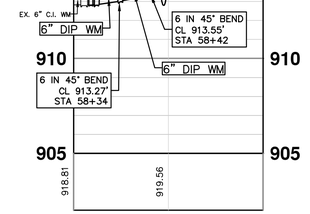
WATER MAIN CONNECTION PROFILE
STATION 50+17
(SEE SHEET 28)



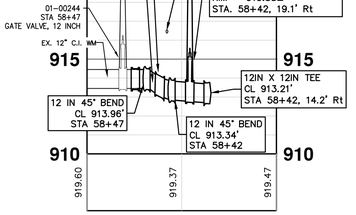
WATER MAIN CONNECTION PROFILE
STATION 50+70
(SEE SHEET 28)



WATER MAIN CONNECTION PROFILE
STATION 55+08
(SEE SHEET 29)



WATER MAIN CONNECTION PROFILE
STATION 58+44
(SEE SHEET 30)



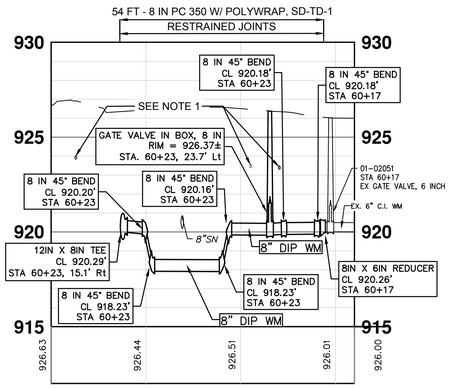
WATER MAIN CONNECTION PROFILE
STATION 58+42
(SEE SHEET 30)

RESTRAINED JOINT LENGTH TABLE

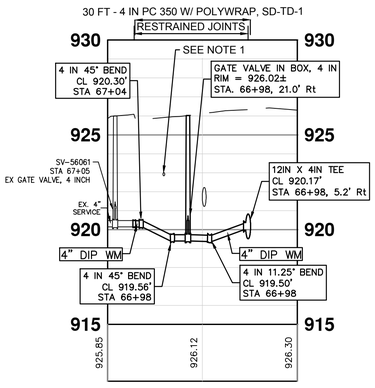
CASE / PIPE SIZE (IN.)	4	6	8	12
H BEND 11.25 DEG	1.3	1.8	2.4	3.5
H BEND 22.5 DEG	2.6	3.7	4.9	7.0
H BEND 45 DEG	5.5	7.7	10.2	14.5
H BEND 90 DEG	13.2	18.6	24.6	35.1
V BEND UP 11.25 DEG	3.3	4.7	6.2	8.9
V BEND UP 22.5 DEG	6.7	9.5	12.6	17.9
V BEND UP 45 DEG	14.1	19.8	26.1	37.2
V BEND DOWN 45 DEG	5.5	7.7	10.2	14.5
TEE / DEAD END / VALVE	33.9	47.8	63.1	89.9

LENGTHS IN FEET EACH SIDE; DESIGN COVER 5.5 FT.
REDUCERS (LARGE SIDE): 12x6: 65.4 FT; 12x8: 47.6 FT; 8x6: 26.5 FT.

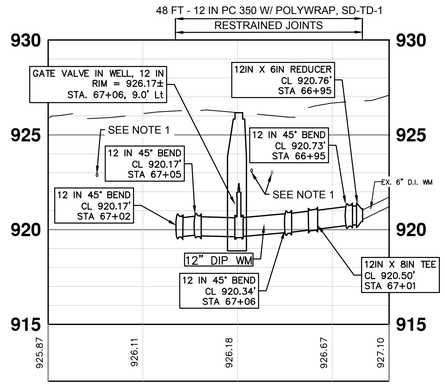
A. RESTRAINED JOINT LENGTHS ARE DESIGNED PER DIPRA "THRUST RESTRAINT DESIGN FOR DUCTILE IRON PIPE" (7TH ED.) AS REQUIRED BY CITY STANDARDS ARTICLE 3, SECTION II.A.3.a(4). CALCULATIONS ARE SUBMITTED SEPARATELY.
B. DESIGN BASIS: TEST PRESSURE 150 PSI; SAFETY FACTOR 1.5; POLYETHYLENE ENCASED PIPE; LAYING CONDITION TYPE 5 PER SD-TD-1; DEPTH OF COVER 5.5 FT UNLESS SHOWN DEEPER.
C. RESTRAIN ALL JOINTS WITHIN THE LIMITS SHOWN. AT ANY FITTING OR VALVE WITHOUT A LIMIT SHOWN, RESTRAIN EACH SIDE FOR NOT LESS THAN THE TABLE LENGTH.
D. CLOSED VALVES ARE DESIGNED AS DEAD ENDS. RESTRAIN EACH SIDE OF EVERY VALVE AS SHOWN.
E. RESTRAIN THE ENTIRE HYDRANT LEAD AND THE ENTIRE BRANCH FROM THE TEE TO THE CONNECTION UNLESS A LIMIT IS SHOWN.
F. ALL FITTINGS AND VALVES SHALL HAVE RESTRAINED JOINTS PER ARTICLE 3. THRUST BLOCKS PER ARTICLE 10, SECTION II.K.5 ARE IN ADDITION TO THE RESTRAINED JOINTS.



WATER MAIN CONNECTION PROFILE
STATION 60+23
(SEE SHEET 31)



WATER MAIN CONNECTION PROFILE
STATION 66+98
(SEE SHEET 32)



WATER MAIN CONNECTION PROFILE
STATION 67+05
(SEE SHEET 32)

NOTES

1. DEPTH OF ALL GAS MAINS, TELECOMMUNICATION AND ELECTRIC LINES UNKNOWN. PIPES SHOWN IN PROFILES AT AN ASSUMED 3 FT DEPTH FOR CROSSING LOCATION ONLY. CONTRACTOR TO FIELD VERIFY EXACT LOCATION AND DEPTH.
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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

WASHTENAW AVE. WATER MAIN REPLACEMENT PROJECT

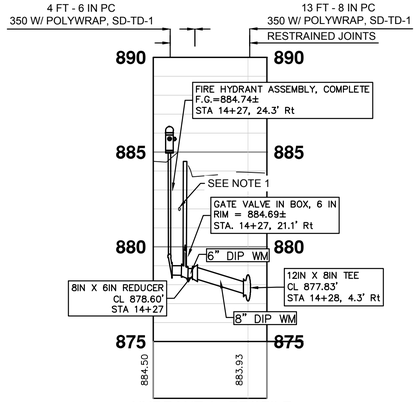
WATER MAIN TIE-IN PROFILES - 2

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

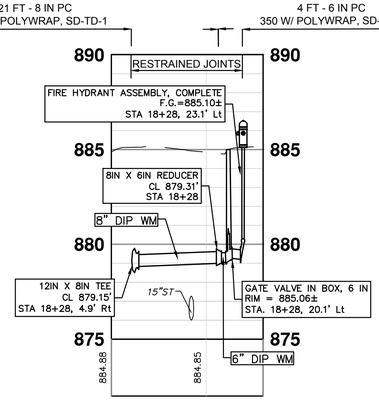
DRAWING No. 2025-015-34

SHEET No. 34 OF 44

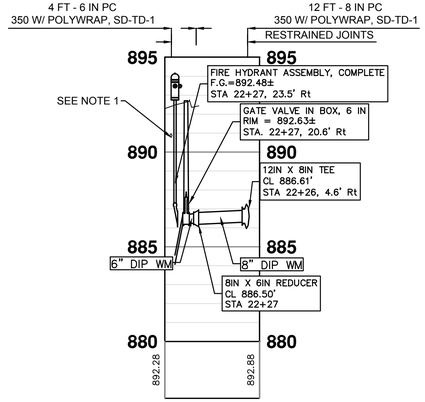
J:\AA\Design\AA25002 - Washtenaw Ave Watermain\Ann Arbor Cads\Plan Production\AA25002_Watr_2.dwg Dwg Created: 16-Oct-26 — _a2 standard bw.stb — Plot Date: 12-Nov-26



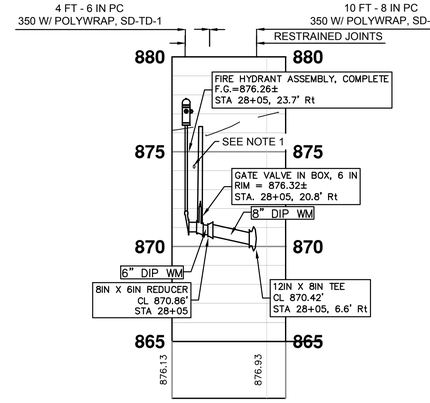
HYDRANT 1 - PROFILE
STATION 14+27
(SEE SHEET 19)



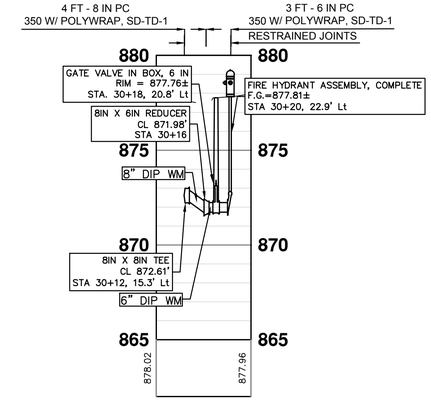
HYDRANT 2 - PROFILE
STATION 18+28
(SEE SHEET 20)



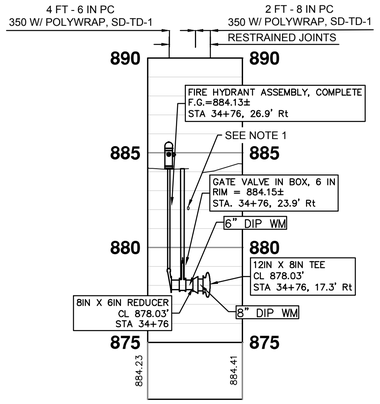
HYDRANT 3 - PROFILE
STATION 22+26
(SEE SHEET 21)



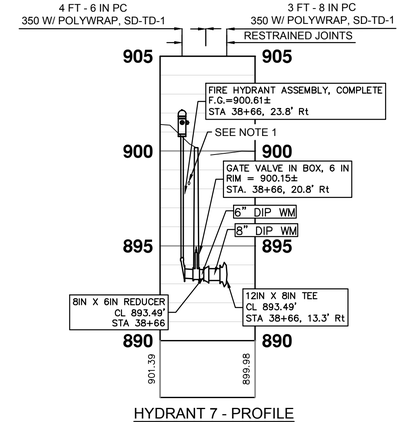
HYDRANT 4 - PROFILE
STATION 28+05
(SEE SHEET 23)



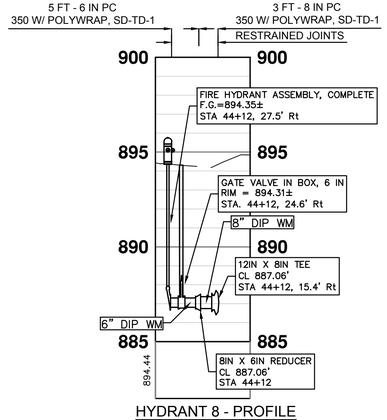
HYDRANT 5 - PROFILE
STATION 30+20
(SEE SHEET 23)



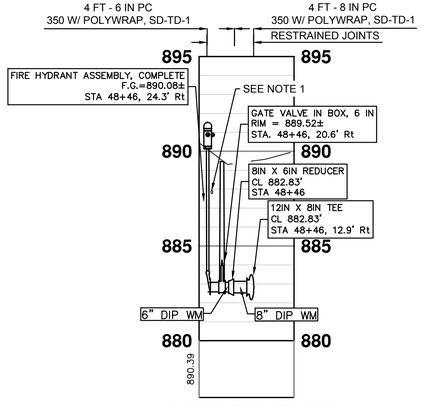
HYDRANT 6 - PROFILE
STATION 34+76
(SEE SHEET 24)



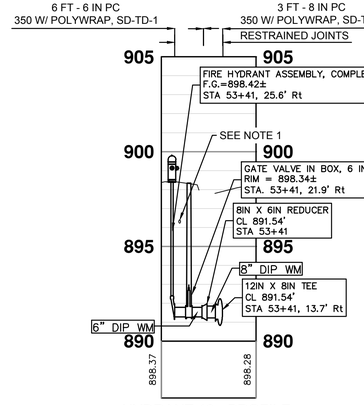
HYDRANT 7 - PROFILE
STATION 38+66
(SEE SHEET 25)



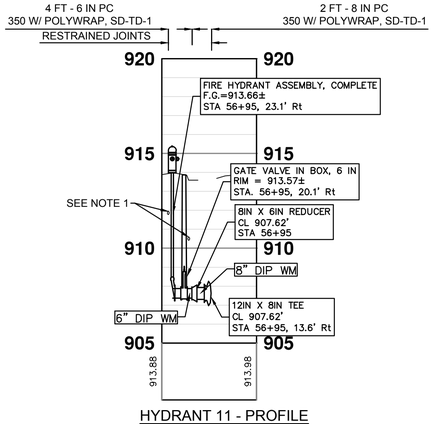
HYDRANT 8 - PROFILE
STATION 44+12
(SEE SHEET 27)



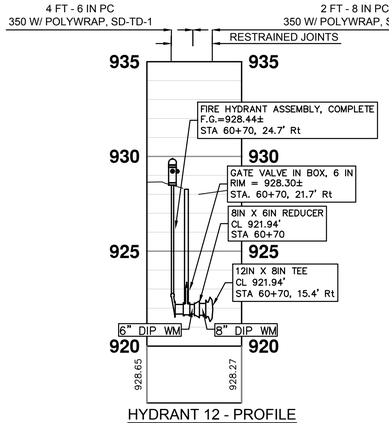
HYDRANT 9 - PROFILE
STATION 48+46
(SEE SHEET 28)



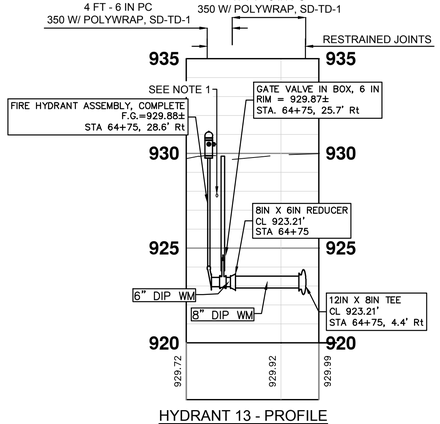
HYDRANT 10 - PROFILE
STATION 53+41
(SEE SHEET 29)



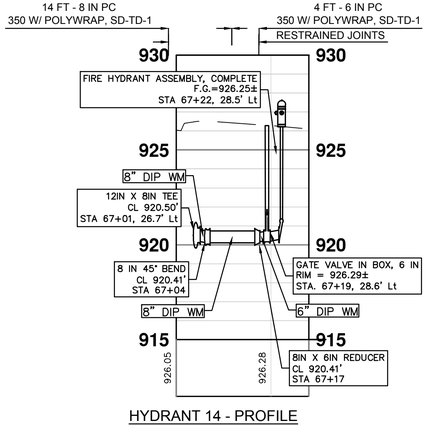
HYDRANT 11 - PROFILE
STATION 56+95
(SEE SHEET 30)



HYDRANT 12 - PROFILE
STATION 60+70
(SEE SHEET 31)



HYDRANT 13 - PROFILE
STATION 64+75
(SEE SHEET 32)



HYDRANT 14 - PROFILE
STATION 67+22
(SEE SHEET 32)

NOTES

1. DEPTH OF ALL GAS MAINS, TELECOMMUNICATION AND ELECTRIC LINES UNKNOWN. PIPES SHOWN IN PROFILES AT AN ASSUMED 3 FT DEPTH FOR CROSSING LOCATION ONLY. CONTRACTOR TO FIELD VERIFY EXACT LOCATION AND DEPTH.
2. ALL HYDRANT ASSEMBLIES TO BE INSTALLED PER THE CITY OF ANN ARBOR 2025 STANDARD SPECIFICATIONS FOR CONSTRUCTION AND SD-W-1 STANDARD DETAIL.
3. ALL LABOR, MATERIAL, AND EQUIPMENT REQUIRED TO FURNISH AND INSTALL THE HYDRANT, INCLUDING THE 6-INCH GATE VALVE IN BOX, 3 FT OF 6-INCH PIPE, THRUST BLOCK, AND 5.5FT DEPTH OF BURY BOTTOM OF BARREL TO BREAKAWAY FLANGE TO BE INCLUDED IN THE "FIRE HYDRANT ASSEMBLY, COMPLETE" PAY ITEM.
4. EXTENSIONS REQUIRED DUE TO EXTRA DEPTH OF WATER MAIN SHALL BE PAID FOR AS "FIRE HYDRANT, EXTENSION", VERTICAL FOOT, AS INSTALLED IN THE FIELD.
5. EXACT DEPTH OF EXISTING WATER MAIN IS UNKNOWN. ADDITIONAL BENDS HAVE BEEN PROVIDED TO BE USED AS-NEEDED TO INSTALL THE PROPOSED WATER MAIN.

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WASHTENAW AVE. WATER MAIN REPLACEMENT PROJECT

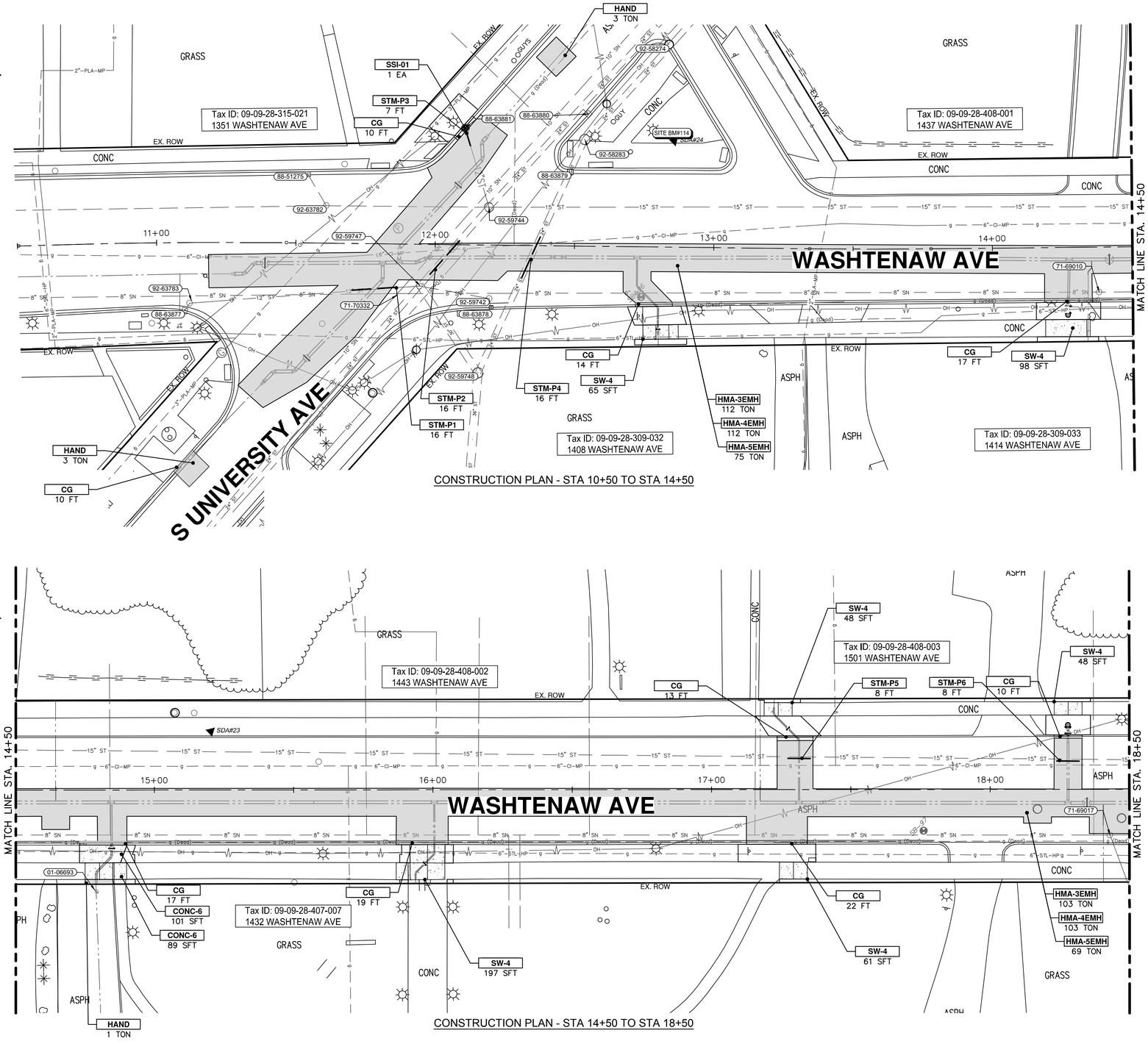
HYDRANT PROFILES

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

DRAWING No. 2025-015-35

SHEET No. 35 OF 44

J:\AA\Design\AA25002 - Washtenaw Ave Watermain\Ann Arbor Cads\Plan Production\AA25002_Watr_2.dwg Dwg Created: 16-Oct-26 - _a2 standard bw.stb - Plot Date: 12-Nov-26



CONSTRUCTION PLAN - STA 10+50 TO STA 14+50

CONSTRUCTION PLAN - STA 14+50 TO STA 18+50

PAVING HATCHING KEY

- PROPOSED HMA
- PROPOSED CONCRETE
- PROPOSED CURB AND GUTTER

CONSTRUCTION KEY	
KEY	DESCRIPTION
HMA–3EMH	HMA, 3EMH
HMA–4EMH	HMA, 4EMH
HMA–5EMH	HMA, 5EMH
CG	CONC, CURB OR CURB & GUTTER, ALL TYPES AGGREGATE BASE, 12 IN. 21AA, CIP
CG–M	CONC, DRIVEWAY OPENING, TYPE M AGGREGATE BASE, 6 IN. 21AA, CIP
SW–4	CONC, SIDEWALK, 4 IN. SUBBASE, CIP
CONC–6	CONC, SIDEWALK, DRIVE APPROACH, OR RAMP, 6 IN. AGGREGATE BASE, 6 IN. 21AA, CIP
CONC–8	CONC, SIDEWALK, DRIVE APPROACH, OR RAMP, 8 IN. AGGREGATE BASE, 6 IN. 21AA, CIP
DWS	DETECTABLE WARNING SURFACE
STM–P#	–– IN., CL IV RCP STORM SEWER, SD–TD–1 PIPE UNDERCUT & BACKFILL, STORM
SSI–#	STORM SINGLE INLET, 24 IN. DIA., (0–8' DEEP)

CONSTRUCTION QUANTITIES - THIS SHEET

Item	Quantity	Unit
Subbase, CIP	10	Cyd
Aggregate Base, 6 In., 21AA, CIP	13	Syd
Aggregate Base, 12 In., 21AA, CIP	1243	Syd
Hand Patching	7	Ton
HMA, 3EMH	215	Ton
HMA, 4EMH	215	Ton
HMA, 5EMH	144	Ton
Conc, Curb or Curb & Gutter, All Types	132	Ft
Conc, Sidewalk, 4 In.	517	Sft
Conc, Sidewalk, Drive Approach, or Ramp, 6 In.	190	Sft
Turf Restoration	111	Syd
Storm Single Inlet, 24 In. Dia., (0-8' deep)	1	Ea
12 In., CL IV RCP Storm Sewer, SD-TD-1	23	Ft
15 In., CL IV RCP Storm Sewer, SD-TD-1	16	Ft
24 In., CL IV RCP Storm Sewer, SD-TD-1	32	Ft
Storm Structure Cover	1	Ea
Pipe Undercut & Backfill, Storm	111	Cyd

PROPOSED STORM STRUCTURE TABLE

STRUCTURE NAME	STRUCTURE TYPE	STATION OFFSET	RIM	SUMP	INVERTS
SSI–01	2' Inlet (Cover K)	12+10.30, 41.80, Lt	877.84	2'	IE 12" SW 873.86

PROPOSED DRAINAGE PIPE TABLE

PIPE NAME	SIZE (INCH)	LENGTH (FEET)	INVERT (UPSTREAM)	INVERT (DOWNSTREAM)	SLOPE
STM–P1	12	16	873.42	873.26	1.01%
STM–P2	24	16	870.84	870.79	0.32%
STM–P3	12	7	873.86	873.23	9.70%
STM–P4	24	16	869.39	868.31	6.78%
STM–P5	15	8	875.43	875.38	0.63%
STM–P6	15	8	876.04	875.98	0.63%

EXISTING STORM SEWER STRUCTURE REMOVAL TABLE

STRUCTURE	*DEPTH (FEET)*	*REMOVE*
88-63881	*3.98*	*Drop Inlet TO BE REMOVED*

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

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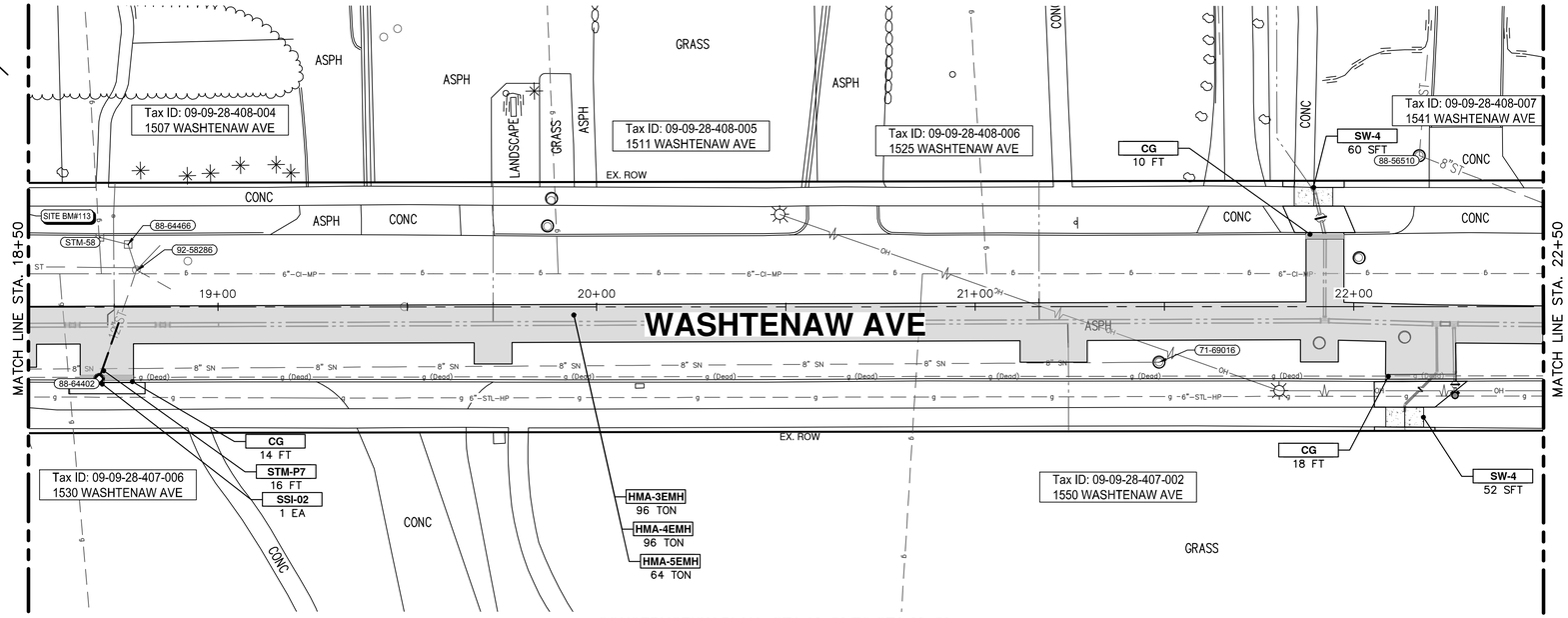
CONSTRUCTION PLAN - P.O.B. TO STA 18+50

SCALE: 1" = 20'

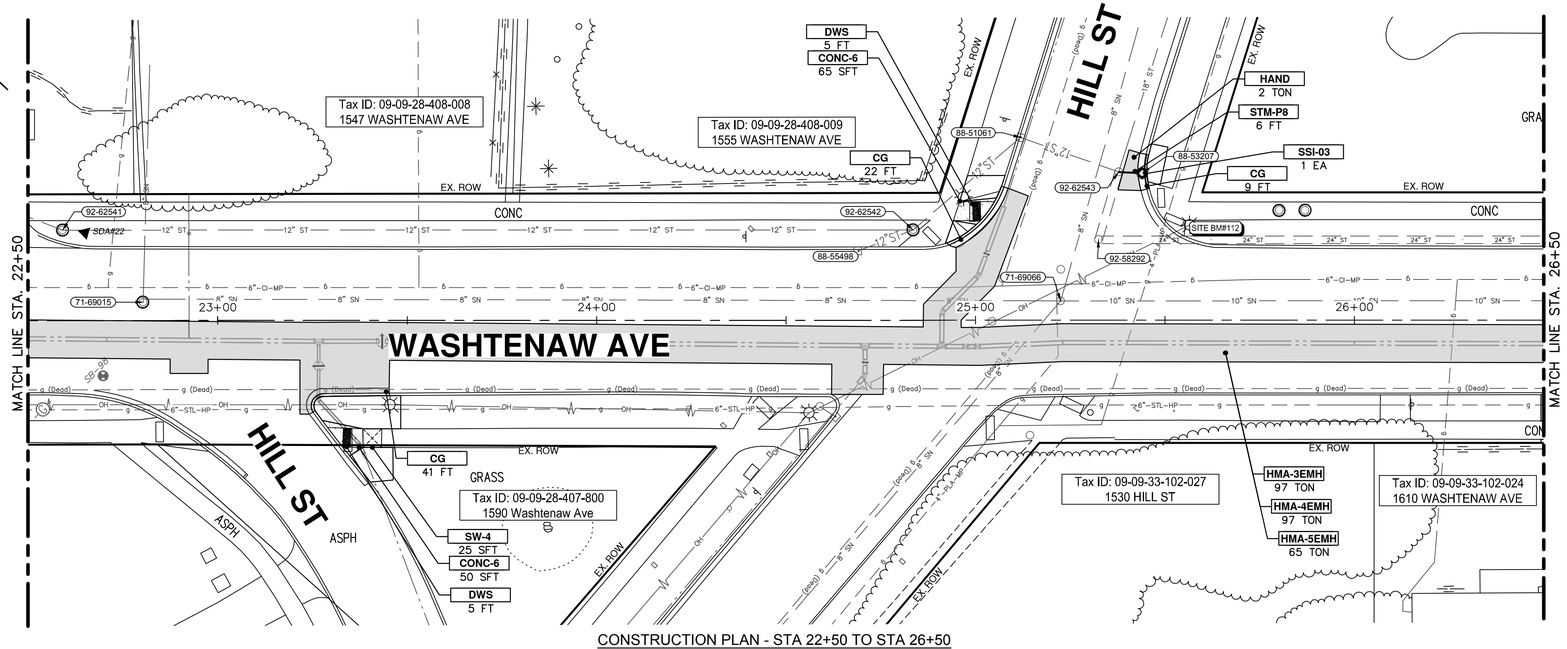
DRAWING No. **2025-015-36**

SHEET No. **36 OF 44**

J:\AA\Design\AA25002 – Washtenaw Ave Watermain\Ann Arbor Cads\Plan Production\AA25002_PPrd_1.dwg Dwg Created: 14-Oct-26 – _o2 standard bw.stb – Plot Date: 12-Nov-26



CONSTRUCTION PLAN - STA 18+50 TO STA 22+50



CONSTRUCTION PLAN - STA 22+50 TO STA 26+50

PAVING HATCHING KEY

- PROPOSED HMA
- PROPOSED CONCRETE
- PROPOSED CURB AND GUTTER

CONSTRUCTION KEY	
KEY	DESCRIPTION
HMA–3EMH	HMA, 3EMH
HMA–4EMH	HMA, 4EMH
HMA–5EMH	HMA, 5EMH
CG	CONC, CURB OR CURB & GUTTER, ALL TYPES AGGREGATE BASE, 12 IN. 21AA, CIP
CG–M	CONC, DRIVEWAY OPENING, TYPE M AGGREGATE BASE, 6 IN. 21AA, CIP
SW–4	CONC, SIDEWALK, 4 IN. SUBBASE, CIP
CONC–6	CONC, SIDEWALK, DRIVE APPROACH, OR RAMP, 6 IN. AGGREGATE BASE, 6 IN. 21AA, CIP
CONC–8	CONC, SIDEWALK, DRIVE APPROACH, OR RAMP, 8 IN. AGGREGATE BASE, 6 IN. 21AA, CIP
DWS	DETECTABLE WARNING SURFACE
STM–P#	__ IN., CL IV RCP STORM SEWER, SD–TD–1 PIPE UNDERCUT & BACKFILL, STORM
SSI–#	STORM SINGLE INLET, 24 IN. DIA., (0–8' DEEP)

CONSTRUCTION QUANTITIES - THIS SHEET

Item	Quantity	Unit
Subbase, CIP	5	Cyd
Aggregate Base, 12 In., 21AA, CIP	1096	Syd
Hand Patching	2	Ton
HMA, 3EMH	193	Ton
HMA, 4EMH	193	Ton
HMA, 5EMH	129	Ton
Conc, Curb or Curb & Gutter, All Types	114	Ft
Conc, Sidewalk, 4 In.	137	Sft
Conc, Sidewalk, Drive Approach, or Ramp, 6 In.	115	Sft
Detectable Warning Surface	10	Ft
Turf Restoration	85	Syd
Storm Single Inlet, 24 In. Dia., (0-8' deep)	2	Ea
12 In., CL IV RCP Storm Sewer, SD-TD-1	22	Ft
Storm Structure Cover	2	Ea
Pipe Undercut & Backfill, Storm	35	Cyd

PROPOSED STORM STRUCTURE TABLE

STRUCTURE NAME	STRUCTURE TYPE	STATION OFFSET	RIM	SUMP	INVERTS
SSI–02	2' Inlet (Cover K)	18+68.62, 18.98, Rt	885.00	2'	IE 12" NE 881.02
SSI–03	2' Inlet (Cover K)	25+44.02, 38.77, Lt	882.69	2'	IE 12" NW 878.86

PROPOSED DRAINAGE PIPE TABLE

PIPE NAME	SIZE (INCH)	LENGTH (FEET)	INVERT (UPSTREAM)	INVERT (DOWNSTREAM)	SLOPE
STM–P7	12	16	881.02	878.82	14.06%
STM–P8	12	6	878.86	878.85	0.16%

EXISTING STORM SEWER STRUCTURE REMOVAL TABLE

STRUCTURE	*DEPTH (FEET)*	*REMOVE*
88-64402	*3.98*	*Drop Inlet TO BE REMOVED*
88-53207	*3.98*	*Drop Inlet TO BE REMOVED*

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

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
5	–	–	–	–
4	–	–	–	–
3	FINAL SUBMITTAL	11/17/2026	AJ	AL
2	90% SUBMITTAL	10/15/2026	AJ	AL/DD
1	70% SUBMITTAL	02/20/2026	AJ/RD	AL/CH

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WASHTENAW AVE. WATER MAIN REPLACEMENT PROJECT

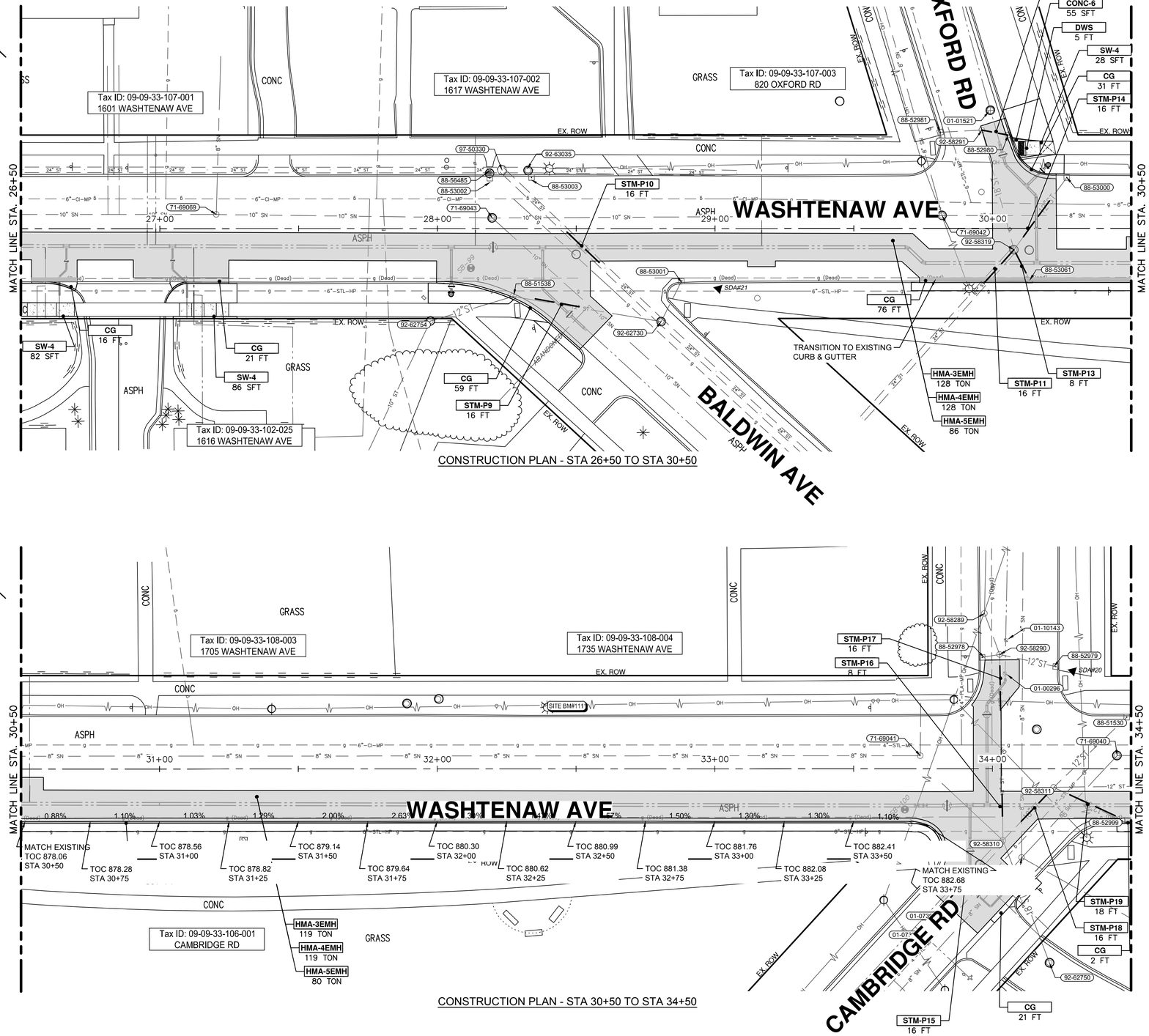
CONSTRUCTION PLAN - STA 18+50 TO STA 26+50

SCALE : 1" = 20'

DRAWING No. 2025-015-37

SHEET No. 37 OF 44

J: \AA \Design \AA25002 – Washtenaw Ave Watermain \Ann Arbor Cads \Plan Production \AA25002_PPrd_1.dwg Dwg Created: 14–Oct–26 – _a2 standard bw.stb – Plot Date: 12–Nov–26



PAVING HATCHING KEY

- PROPOSED HMA
- PROPOSED CONCRETE
- PROPOSED CURB AND GUTTER

CONSTRUCTION KEY

KEY	DESCRIPTION
HMA–3EMH	HMA, 3EMH
HMA–4EMH	HMA, 4EMH
HMA–5EMH	HMA, 5EMH
CG	CONC, CURB OR CURB & GUTTER, ALL TYPES AGGREGATE BASE, 12 IN. 21AA, CIP
CG–M	CONC, DRIVEWAY OPENING, TYPE M AGGREGATE BASE, 6 IN. 21AA, CIP
SW–4	CONC, SIDEWALK, 4 IN. SUBBASE, CIP
CONC–6	CONC, SIDEWALK, DRIVE APPROACH, OR RAMP, 6 IN. AGGREGATE BASE, 6 IN. 21AA, CIP
CONC–8	CONC, SIDEWALK, DRIVE APPROACH, OR RAMP, 8 IN. AGGREGATE BASE, 6 IN. 21AA, CIP
DWS	DETECTABLE WARNING SURFACE
STM–P#	__ IN., CL IV RCP STORM SEWER, SD–TD–1 PIPE UNDERCUT & BACKFILL, STORM
SSI–#	STORM SINGLE INLET, 24 IN. DIA., (0–8' DEEP)

CONSTRUCTION QUANTITIES - THIS SHEET

Item	Quantity	Unit
Subbase, CIP	6	Cyd
Aggregate Base, 12 In., 21AA, CIP	1545	Syd
HMA, 3EMH	247	Ton
HMA, 4EMH	247	Ton
HMA, 5EMH	166	Ton
Conc, Curb or Curb & Gutter, All Types	563	Ft
Conc, Sidewalk, 4 In.	196	Sft
Conc, Sidewalk, Drive Approach, or Ramp, 6 In.	55	Sft
Detectable Warning Surface	5	Ft
Turf Restoration	237	Syd
12 In., CL IV RCP Storm Sewer, SD-TD-1	68	Ft
18 In., CL IV RCP Storm Sewer, SD-TD-1	40	Ft
24 In., CL IV RCP Storm Sewer, SD-TD-1	48	Ft
Pipe Undercut & Backfill, Storm	243	Cyd

PROPOSED DRAINAGE PIPE TABLE

PIPE NAME	SIZE (INCH)	LENGTH (FEET)	INVERT (UPSTREAM)	INVERT (DOWNSTREAM)	SLOPE
STM–P9	12	16	872.53	871.84	4.27%
STM–P10	24	16	872.71	871.94	4.81%
STM–P11	24	16	872.26	871.85	2.54%
STM–P12	12	10	873.85	873.51	3.56%
STM–P13	12	8	874.59	872.67	23.96%
STM–P14	12	16	874.45	873.15	8.15%
STM–P15	24	16	874.59	874.30	1.81%
STM–P16	18	8	876.65	876.45	2.45%
STM–P17	18	16	877.78	877.39	2.45%
STM–P18	18	16	876.82	876.03	4.91%
STM–P19	12	18	879.53	878.35	6.53%

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

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
5	–	–	–	–
4	FINAL SUBMITTAL	11/17/2026	AJ	AL
3	90% SUBMITTAL	10/15/2026	AJ	AL/DD
2	70% SUBMITTAL	02/20/2026	AJ/RD	AL/CH
1	–	–	–	–

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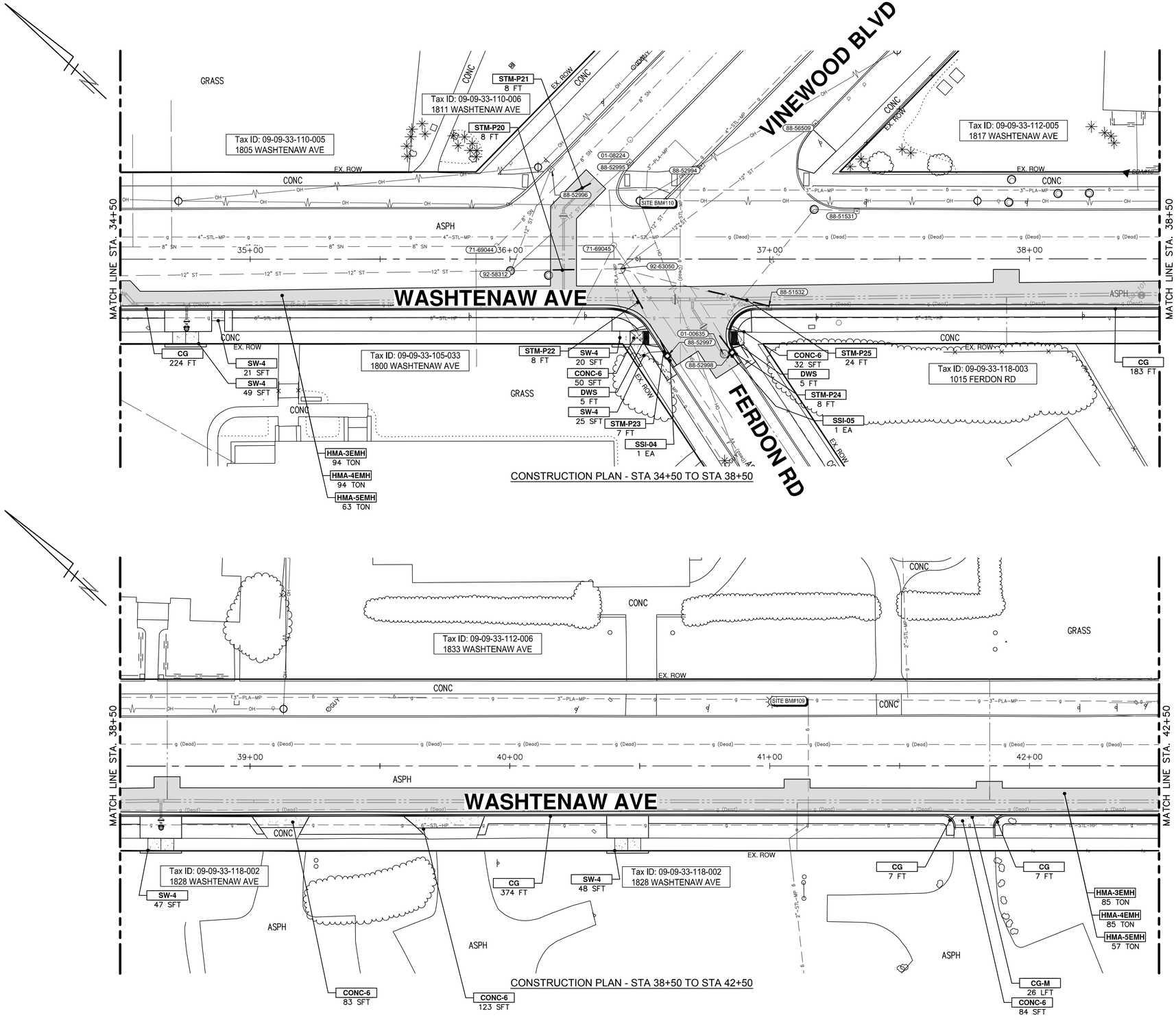
CONSTRUCTION PLAN - STA 26+50 TO STA 34+50

SCALE : 1" = 20'

DRAWING No. 2025-015-38

SHEET No. 38 OF 44

J:\AA\Design\AA25002 – Washtenaw Ave Watermain\Ann Arbor Cads\Plan Production\AA25002_PPrd_1.dwg Dwg Created: 14–Oct–26 – _a2 standard bw.stb – Plot Date: 12–Nov–26



PAVING HATCHING KEY

- PROPOSED HMA
- PROPOSED CONCRETE
- PROPOSED CURB AND GUTTER

CONSTRUCTION KEY	
KEY	DESCRIPTION
HMA–3EMH	HMA, 3EMH
HMA–4EMH	HMA, 4EMH
HMA–5EMH	HMA, 5EMH
CG	CONC, CURB OR CURB & GUTTER, ALL TYPES AGGREGATE BASE, 12 IN. 21AA, CIP
CG–M	CONC, DRIVEWAY OPENING, TYPE M AGGREGATE BASE, 6 IN. 21AA, CIP
SW–4	CONC, SIDEWALK, 4 IN. SUBBASE, CIP
CONC–6	CONC, SIDEWALK, DRIVE APPROACH, OR RAMP, 6 IN. AGGREGATE BASE, 6 IN. 21AA, CIP
CONC–8	CONC, SIDEWALK, DRIVE APPROACH, OR RAMP, 8 IN. AGGREGATE BASE, 6 IN. 21AA, CIP
DWS	DETECTABLE WARNING SURFACE
STM–P#	–– IN., CL IV RCP STORM SEWER, SD–TD–1 PIPE UNDERCUT & BACKFILL, STORM
SSI–#	STORM SINGLE INLET, 24 IN. DIA., (0–8' DEEP)

CONSTRUCTION QUANTITIES - THIS SHEET

Item	Quantity	Unit
Subbase, CIP	8	Cyd
Aggregate Base, 6 In., 21AA, CIP	47	Syd
Aggregate Base, 12 In., 21AA, CIP	1246	Syd
HMA, 3EMH	179	Ton
HMA, 4EMH	179	Ton
HMA, 5EMH	120	Ton
Conc, Curb or Curb & Gutter, All Types	795	Ft
Conc, Driveway Opening, Type M	26	Ft
Conc, Sidewalk, 4 In.	210	Sft
Conc, Sidewalk, Drive Approach, or Ramp, 6 In.	372	Sft
Detectable Warning Surface	10	Ft
Turf Restoration	326	Syd
Storm Single Inlet, 24 In. Dia., (0-8' deep)	2	Ea
12 In., CL IV RCP Storm Sewer, SD-TD-1	63	Ft
Storm Structure Cover	2	Ea
Pipe Undercut & Backfill, Storm	98	Cyd

PROPOSED STORM STRUCTURE TABLE

STRUCTURE NAME	STRUCTURE TYPE	STATION OFFSET	RIM	SUMP	INVERTS
SSI–04	2' Inlet (Cover K)	36+60.57, 37.24, Rt	890.06	2'	IE 12" N 885.69
SSI–05	2' Inlet (Cover K)	36+85.55, 35.99, Rt	892.13	2'	IE 12" N 888.15

PROPOSED DRAINAGE PIPE TABLE

PIPE NAME	SIZE (INCH)	LENGTH (FEET)	INVERT (UPSTREAM)	INVERT (DOWNSTREAM)	SLOPE
STM–P20	12	8	881.19	880.38	10.13%
STM–P21	12	8	883.77	883.52	3.15%
STM–P22	12	8	885.62	885.60	0.33%
STM–P23	12	7	885.69	885.67	0.32%
STM–P24	12	8	888.15	887.67	5.97%
STM–P25	12	24	887.78	886.99	3.31%

EXISTING STORM SEWER STRUCTURE REMOVAL TABLE

STRUCTURE	*DEPTH (FEET)*	*REMOVE*
88-52997	*3.98*	*Drop Inlet TO BE REMOVED*
88-52998	*3.98*	*Drop Inlet TO BE REMOVED*

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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
–	–	–	–	–
5	–	–	–	–
4	–	–	–	–
3	FINAL SUBMITTAL	11/17/2026	AJ	AL
2	90% SUBMITTAL	10/15/2026	AJ	AL/DD
1	70% SUBMITTAL	02/20/2026	AJ/RD	AL/CH

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WASHTENAW AVE. WATER MAIN REPLACEMENT PROJECT

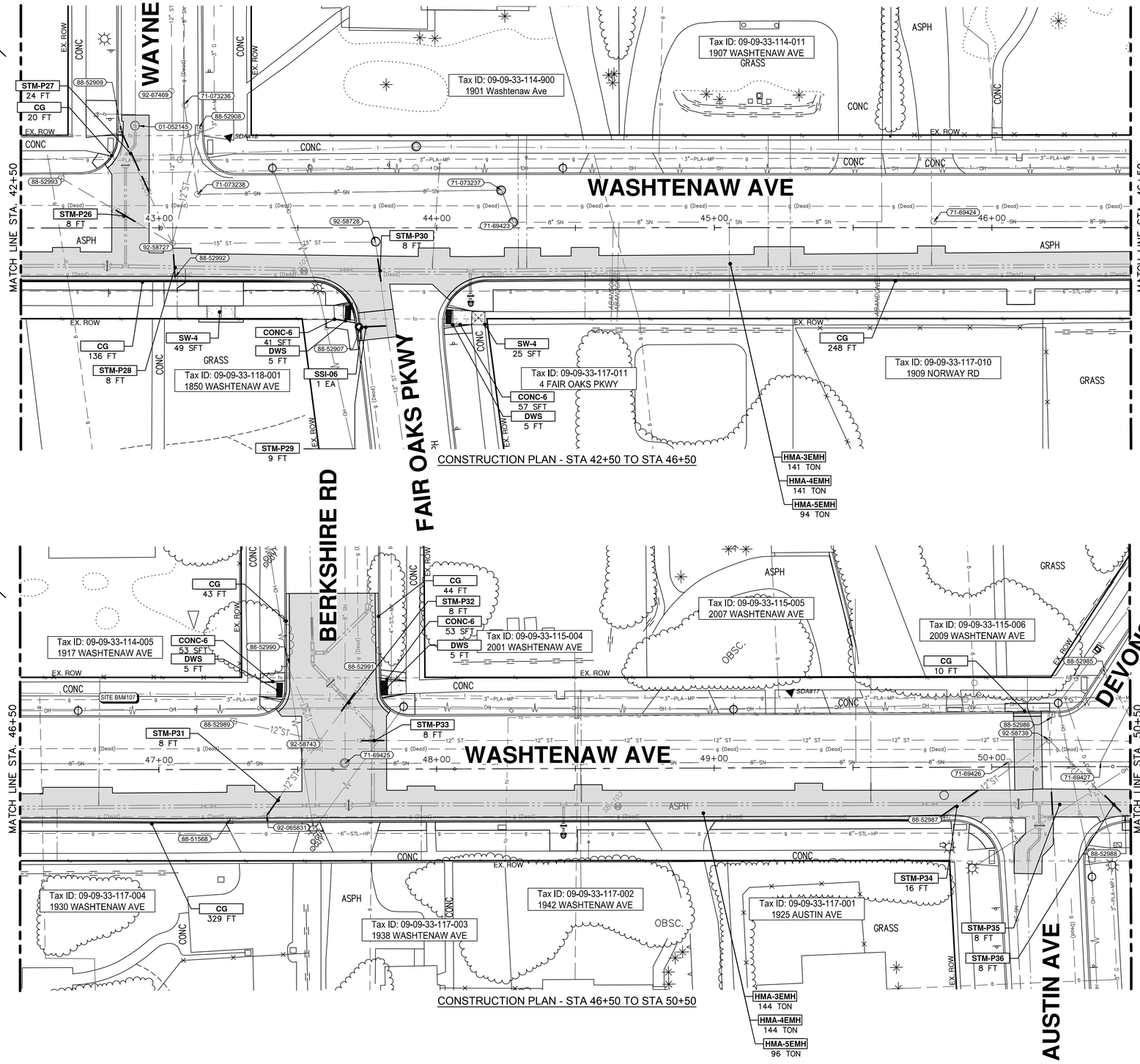
CONSTRUCTION PLAN - STA 34+50 TO STA 42+50

SCALE: 1" = 20'

DRAWING No. 2025-015-39

SHEET No. 39 OF 44

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PAVING HATCHING KEY

- PROPOSED HMA
- PROPOSED CONCRETE
- PROPOSED CURB AND GUTTER

CONSTRUCTION KEY	
KEY	DESCRIPTION
HMA–3EMH	HMA, 3EMH
HMA–4EMH	HMA, 4EMH
HMA–5EMH	HMA, 5EMH
CG	CONC, CURB OR CURB & GUTTER, ALL TYPES AGGREGATE BASE, 12 IN. 21AA, CIP
CG–M	CONC, DRIVEWAY OPENING, TYPE M AGGREGATE BASE, 6 IN. 21AA, CIP
SW–4	CONC, SIDEWALK, 4 IN. SUBBASE, CIP
CONC–6	CONC, SIDEWALK, DRIVE APPROACH, OR RAMP, 6 IN. AGGREGATE BASE, 6 IN. 21AA, CIP
CONC–8	CONC, SIDEWALK, DRIVE APPROACH, OR RAMP, 8 IN. AGGREGATE BASE, 6 IN. 21AA, CIP
DWS	DETECTABLE WARNING SURFACE
STM–P#	–– IN., CL IV RCP STORM SEWER, SD–TD–1 PIPE UNDERCUT & BACKFILL, STORM
SSI–#	STORM SINGLE INLET, 24 IN. DIA., (0–8' DEEP)

CONSTRUCTION QUANTITIES - THIS SHEET

Item	Quantity	Unit
Subbase, CIP	6	Cyd
Aggregate Base, 12 In., 21AA, CIP	1838	Syd
HMA, 3EMH	285	Ton
HMA, 4EMH	285	Ton
HMA, 5EMH	190	Ton
Conc, Curb or Curb & Gutter, All Types	830	Ft
Conc, Sidewalk, 4 In.	74	Sft
Conc, Sidewalk, Drive Approach, or Ramp, 6 In.	204	Sft
Detectable Warning Surface	20	Ft
Turf Restoration	299	Syd
Storm Single Inlet, 24 In. Dia., (0-8' deep)	1	Ea
12 In., CL IV RCP Storm Sewer, SD-TD-1	97	Ft
15 In., CL IV RCP Storm Sewer, SD-TD-1	8	Ft
24 In., CL IV RCP Storm Sewer, SD-TD-1	8	Ft
Storm Structure Cover	1	Ea
Pipe Undercut & Backfill, Storm	176	Cyd

PROPOSED STORM STRUCTURE TABLE					
STRUCTURE NAME	STRUCTURE TYPE	STATION OFFSET	RIM	SUMP	INVERTS
SSI–06	2' Inlet (Cover K)	43+72.02, 35.67, Rt	896.38	2'	IE 12" SE 891.56

PROPOSED DRAINAGE PIPE TABLE					
PIPE NAME	SIZE (INCH)	LENGTH (FEET)	INVERT (UPSTREAM)	INVERT (DOWNSTREAM)	SLOPE
STM–P26	12	8	892.01	891.70	3.84%
STM–P27	12	24	893.41	893.33	0.34%
STM–P28	12	8	892.64	891.78	10.69%
STM–P29	12	9	891.56	888.48	32.42%
STM–P30	15	8	889.20	888.97	2.98%
STM–P31	12	8	887.95	887.93	0.30%
STM–P32	12	8	889.98	889.50	5.96%
STM–P33	12	8	885.61	885.45	1.93%
STM–P34	12	16	883.29	883.24	0.34%
STM–P35	24	8	880.44	880.28	2.06%
STM–P36	12	8	883.36	883.34	0.33%

EXISTING STORM SEWER STRUCTURE REMOVAL TABLE		
STRUCTURE	*DEPTH (FEET)*	*REMOVE*
88-52907	*4.82*	*Drop Inlet TO BE REMOVED*

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

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
5	–	–	–	–
4	–	–	–	–
3	FINAL SUBMITTAL	11/17/2026	AJ	AL
2	90% SUBMITTAL	10/15/2026	AJ	AL/DD
1	70% SUBMITTAL	02/20/2026	AJ/RD	AL/CH

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WASHTENAW AVE. WATER MAIN REPLACEMENT PROJECT

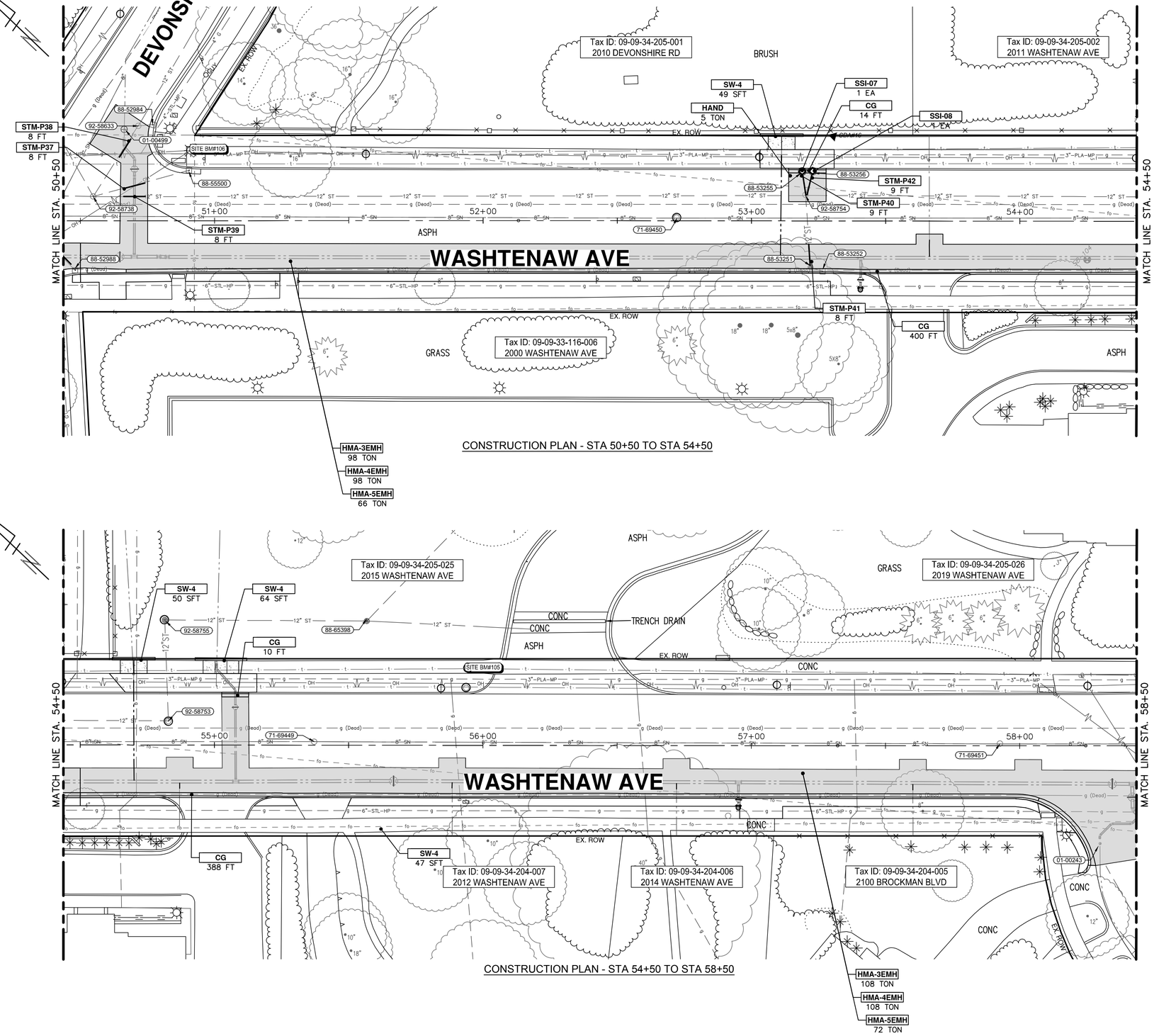
CONSTRUCTION PLAN - STA 42+50 TO STA 50+50

SCALE : 1" = 20'

DRAWING No. 2025-015-40

SHEET No. 40 OF 44

J:\AA\Design\AA25002 – Washtenaw Ave Watermain\Ann Arbor Cads\Plan Production\AA25002_PPrd_1.dwg Dwg Created: 14–Oct–26 – _a2 standard bw.stb – Plot Date: 12–Nov–26



CONSTRUCTION PLAN - STA 50+50 TO STA 54+50

CONSTRUCTION PLAN - STA 54+50 TO STA 58+50

PAVING HATCHING KEY

- PROPOSED HMA
- PROPOSED CONCRETE
- PROPOSED CURB AND GUTTER

CONSTRUCTION KEY	
KEY	DESCRIPTION
HMA–3EMH	HMA, 3EMH
HMA–4EMH	HMA, 4EMH
HMA–5EMH	HMA, 5EMH
CG	CONC, CURB OR CURB & GUTTER, ALL TYPES AGGREGATE BASE, 12 IN. 21AA, CIP
CG–M	CONC, DRIVEWAY OPENING, TYPE M AGGREGATE BASE, 6 IN. 21AA, CIP
SW–4	CONC, SIDEWALK, 4 IN. SUBBASE, CIP
CONC–6	CONC, SIDEWALK, DRIVE APPROACH, OR RAMP, 6 IN. AGGREGATE BASE, 6 IN. 21AA, CIP
CONC–8	CONC, SIDEWALK, DRIVE APPROACH, OR RAMP, 8 IN. AGGREGATE BASE, 6 IN. 21AA, CIP
DWS	DETECTABLE WARNING SURFACE
STM–P#	–– IN., CL IV RCP STORM SEWER, SD–TD–1 PIPE UNDERCUT & BACKFILL, STORM
SSI–#	STORM SINGLE INLET, 24 IN. DIA., (0–8' DEEP)

CONSTRUCTION QUANTITIES - THIS SHEET

Item	Quantity	Unit
Subbase, CIP	4	Cyd
Aggregate Base, 12 In., 21AA, CIP	1422	Syd
Hand Patching	5	Ton
HMA, 3EMH	206	Ton
HMA, 4EMH	206	Ton
HMA, 5EMH	138	Ton
Conc, Curb or Curb & Gutter, All Types	812	Ft
Conc, Sidewalk, 4 In.	210	Sft
Turf Restoration	321	Syd
Storm Single Inlet, 24 In. Dia., (0-8' deep)	2	Ea
12 In., CL IV RCP Storm Sewer, SD-TD-1	50	Ft
Storm Structure Cover	2	Ea
Pipe Undercut & Backfill, Storm	78	Cyd

PROPOSED STORM STRUCTURE TABLE

STRUCTURE NAME	STRUCTURE TYPE	STATION OFFSET	RIM	SUMP	INVERTS
SSI–07	2' Inlet (Cover K)	53+18.88, 18.43, Lt	893.58	2'	IE 12" SW 891.58
SSI–08	2' Inlet (Cover K)	53+22.78, 18.54, Lt	893.96	2'	IE 12" SW 891.96

PROPOSED DRAINAGE PIPE TABLE

PIPE NAME	SIZE (INCH)	LENGTH (FEET)	INVERT (UPSTREAM)	INVERT (DOWNSTREAM)	SLOPE
STM–P37	12	8	883.17	883.14	0.35%
STM–P38	12	8	883.86	883.83	0.35%
STM–P39	12	8	882.50	882.26	3.00%
STM–P40	12	9	891.58	890.86	8.07%
STM–P41	12	8	892.78	892.40	4.70%
STM–P42	12	9	891.96	891.04	10.19%

EXISTING STORM SEWER STRUCTURE REMOVAL TABLE

STRUCTURE	*DEPTH (FEET)*	*REMOVE*
88-53255	*1.65*	*Drop Inlet TO BE REMOVED*
88-53256	*1.65*	*Drop Inlet TO BE REMOVED*

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
5	–	–	–	–
4	–	–	–	–
3	FINAL SUBMITTAL	11/17/2026	AJ	AL
2	90% SUBMITTAL	10/15/2026	AJ	AL/DD
1	70% SUBMITTAL	02/20/2026	AJ/RD	AL/CH

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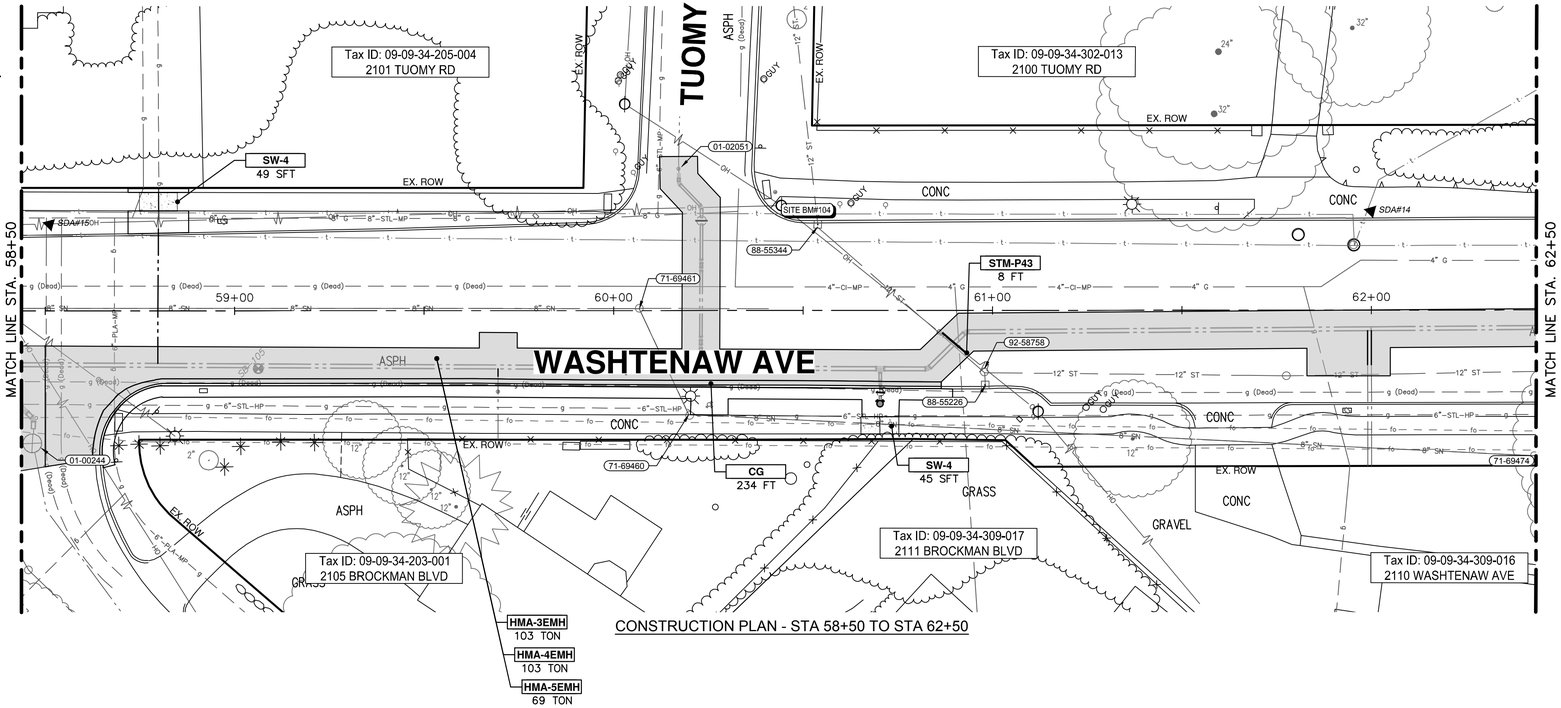
CONSTRUCTION PLAN - STA 50+50 TO STA 58+50

SCALE : 1" = 20'

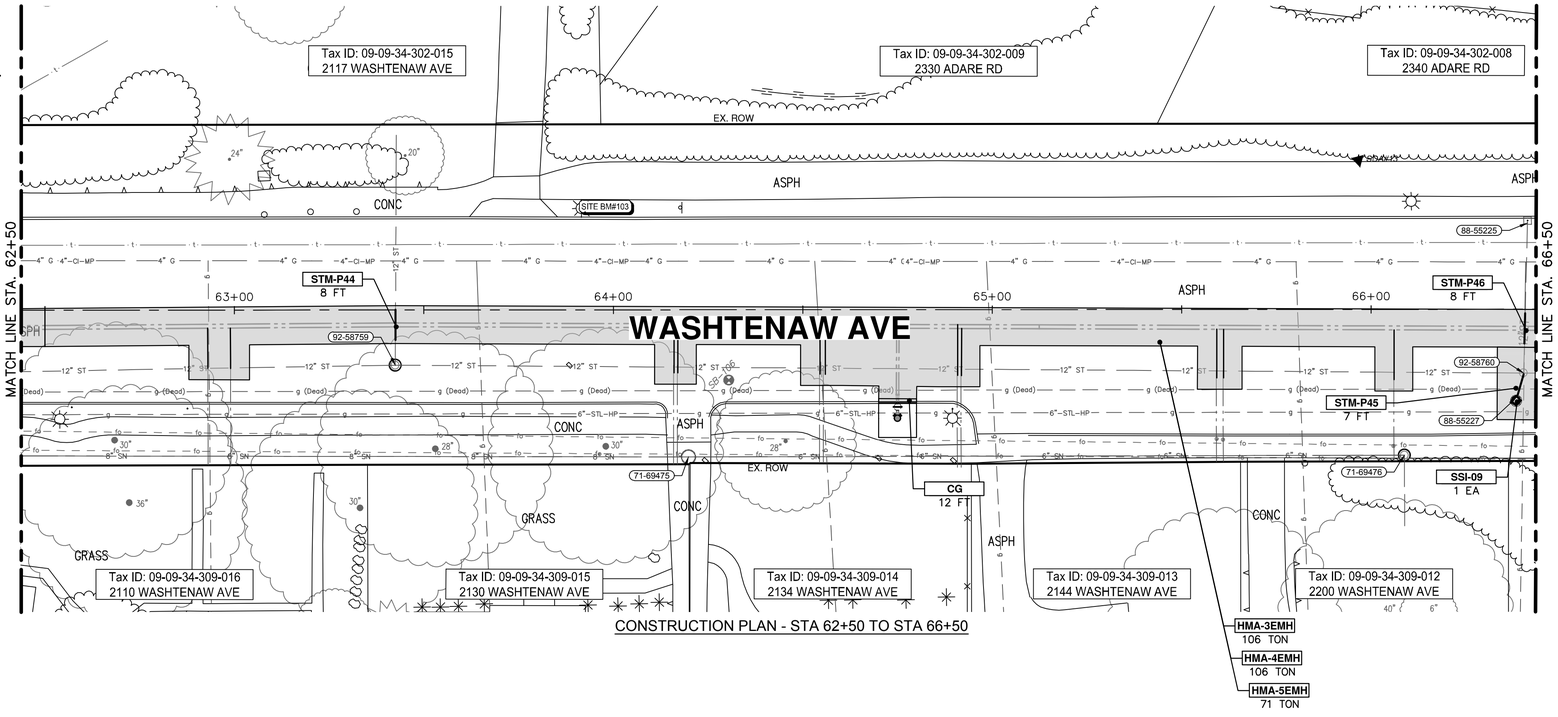
DRAWING No. 2025-015-41

SHEET No. 41 OF 44

J:\AA\Design\AA25002 – Washtenaw Ave Watermain\Ann Arbor Cads\Plan Production\AA25002_PPrd_2.dwg Dwg Created: 13–Oct–26 – _a2 standard bw.stb – Plot Date: 12–Nov–26



CONSTRUCTION PLAN - STA 58+50 TO STA 62+50



CONSTRUCTION PLAN - STA 62+50 TO STA 66+50

PAVING HATCHING KEY

- PROPOSED HMA
- PROPOSED CONCRETE
- PROPOSED CURB AND GUTTER

CONSTRUCTION KEY	
KEY	DESCRIPTION
HMA–3EMH	HMA, 3EMH
HMA–4EMH	HMA, 4EMH
HMA–5EMH	HMA, 5EMH
CG	CONC, CURB OR CURB & GUTTER, ALL TYPES AGGREGATE BASE, 12 IN. 21AA, CIP
CG–M	CONC, DRIVEWAY OPENING, TYPE M AGGREGATE BASE, 6 IN. 21AA, CIP
SW–4	CONC, SIDEWALK, 4 IN. SUBBASE, CIP
CONC–6	CONC, SIDEWALK, DRIVE APPROACH, OR RAMP, 6 IN. AGGREGATE BASE, 6 IN. 21AA, CIP
CONC–8	CONC, SIDEWALK, DRIVE APPROACH, OR RAMP, 8 IN. AGGREGATE BASE, 6 IN. 21AA, CIP
DWS	DETECTABLE WARNING SURFACE
STM–P#	__ IN., CL IV RCP STORM SEWER, SD–TD–1 PIPE UNDERCUT & BACKFILL, STORM
SSI–#	STORM SINGLE INLET, 24 IN. DIA., (0–8' DEEP)

CONSTRUCTION QUANTITIES - THIS SHEET

Item	Quantity	Unit
Subbase, CIP	2	Cyd
Aggregate Base, 12 In., 21AA, CIP	1233	Syd
HMA, 3EMH	209	Ton
HMA, 4EMH	209	Ton
HMA, 5EMH	140	Ton
Conc, Curb or Curb & Gutter, All Types	246	Ft
Conc, Sidewalk, 4 In.	94	Sft
Turf Restoration	111	Syd
Storm Single Inlet, 24 In. Dia., (0-8' deep)	1	Ea
12 In., CL IV RCP Storm Sewer, SD-TD-1	31	Ft
Storm Structure Cover	1	Ea
Pipe Undercut & Backfill, Storm	49	Cyd

PROPOSED STORM STRUCTURE TABLE

STRUCTURE NAME	STRUCTURE TYPE	STATION OFFSET	RIM	SUMP	INVERTS
SSI–09	2' Inlet (Cover K)	66+38.22, 24.12, Rt	928.58	2'	IE 12" NE 924.60

PROPOSED DRAINAGE PIPE TABLE

PIPE NAME	SIZE (INCH)	LENGTH (FEET)	INVERT (UPSTREAM)	INVERT (DOWNSTREAM)	SLOPE
STM–P43	12	8	924.77	924.64	1.67%
STM–P44	12	8	925.95	925.92	0.44%
STM–P45	12	7	924.60	923.35	17.27%
STM–P46	12	8	923.10	922.76	4.24%

EXISTING STORM SEWER STRUCTURE REMOVAL TABLE

STRUCTURE	*DEPTH (FEET)*	*REMOVE*
88-55227	*3.98*	*Drop Inlet TO BE REMOVED*

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

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
–	–	–	–	–
5	–	–	–	–
4	–	–	–	–
3	FINAL SUBMITTAL	11/17/2026	AJ	AL
2	90% SUBMITTAL	10/15/2026	AJ	AL/DD
1	70% SUBMITTAL	02/20/2026	AJ/RD	AL/CH

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WASHTENAW AVE. WATER MAIN REPLACEMENT PROJECT

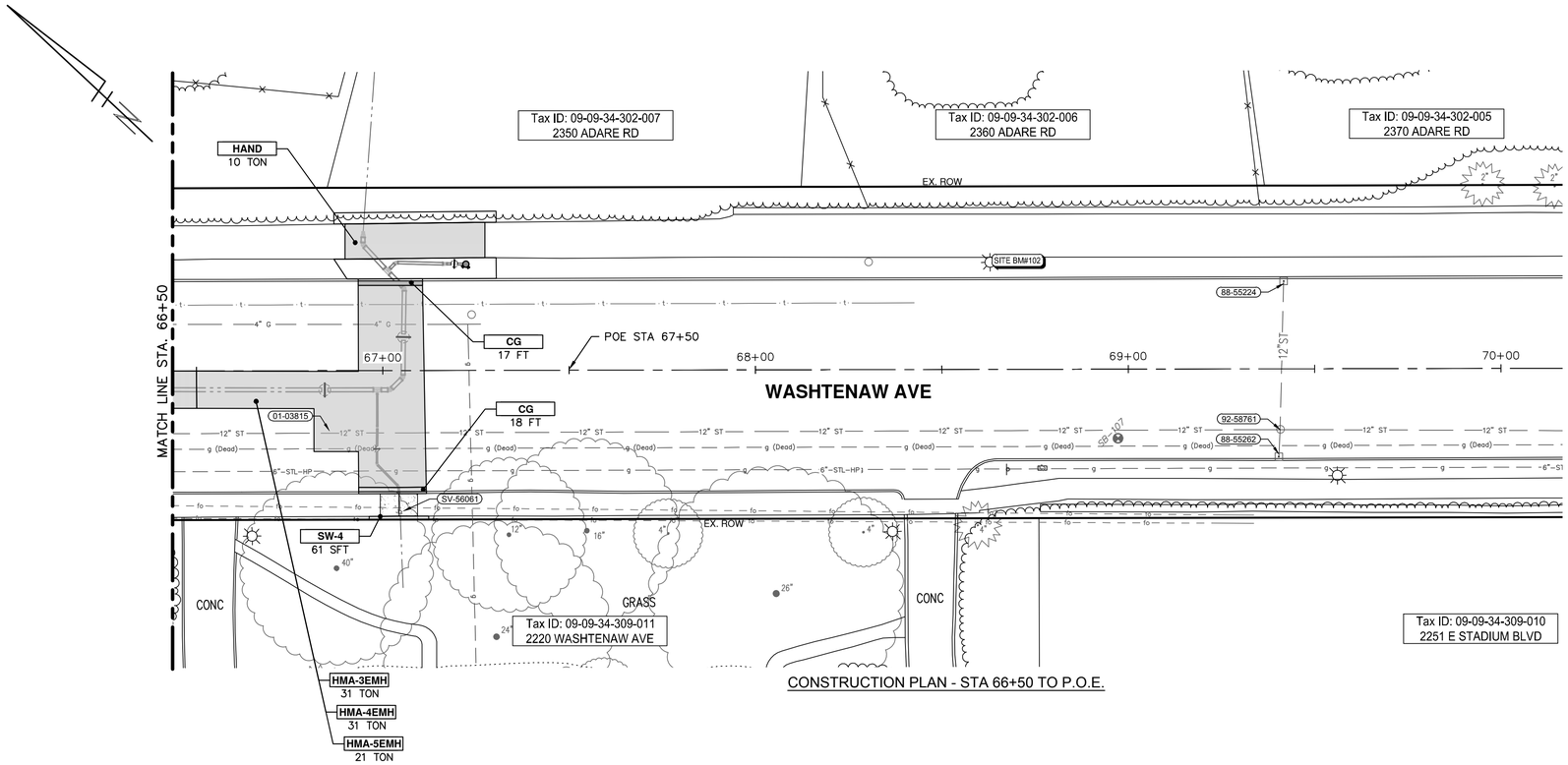
CONSTRUCTION PLAN - STA 58+50 TO STA 66+50

SCALE : 1" = 20'

DRAWING No. 2025-015-42

SHEET No. 42 OF 44

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CONSTRUCTION PLAN - STA 66+50 TO P.O.E.

PAVING HATCHING KEY

- PROPOSED HMA
- PROPOSED CONCRETE
- PROPOSED CURB AND GUTTER

CONSTRUCTION KEY	
KEY	DESCRIPTION
HMA–3EMH	HMA, 3EMH
HMA–4EMH	HMA, 4EMH
HMA–5EMH	HMA, 5EMH
CG	CONC, CURB OR CURB & GUTTER, ALL TYPES AGGREGATE BASE, 12 IN. 21AA, CIP
CG–M	CONC, DRIVEWAY OPENING, TYPE M AGGREGATE BASE, 6 IN. 21AA, CIP
SW–4	CONC, SIDEWALK, 4 IN. SUBBASE, CIP
CONC–6	CONC, SIDEWALK, DRIVE APPROACH, OR RAMP, 6 IN. AGGREGATE BASE, 6 IN. 21AA, CIP
CONC–8	CONC, SIDEWALK, DRIVE APPROACH, OR RAMP, 8 IN. AGGREGATE BASE, 6 IN. 21AA, CIP
DWS	DETECTABLE WARNING SURFACE
STM–P#	__ IN., CL IV RCP STORM SEWER, SD–TD–1 PIPE UNDERCUT & BACKFILL, STORM
SSI–#	STORM SINGLE INLET, 24 IN. DIA., (0–8' DEEP)

CONSTRUCTION QUANTITIES - THIS SHEET

Item	Quantity	Unit
Subbase, CIP	1	Cyd
Aggregate Base, 12 In., 21AA, CIP	221	Syd
Hand Patching	10	Ton
HMA, 3EMH	31	Ton
HMA, 4EMH	31	Ton
HMA, 5EMH	21	Ton
Conc, Curb or Curb & Gutter, All Types	35	Ft
Conc, Sidewalk, 4 In.	61	Sft
Turf Restoration	42	Syd

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

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WASHTENAW AVE. WATER MAIN REPLACEMENT PROJECT

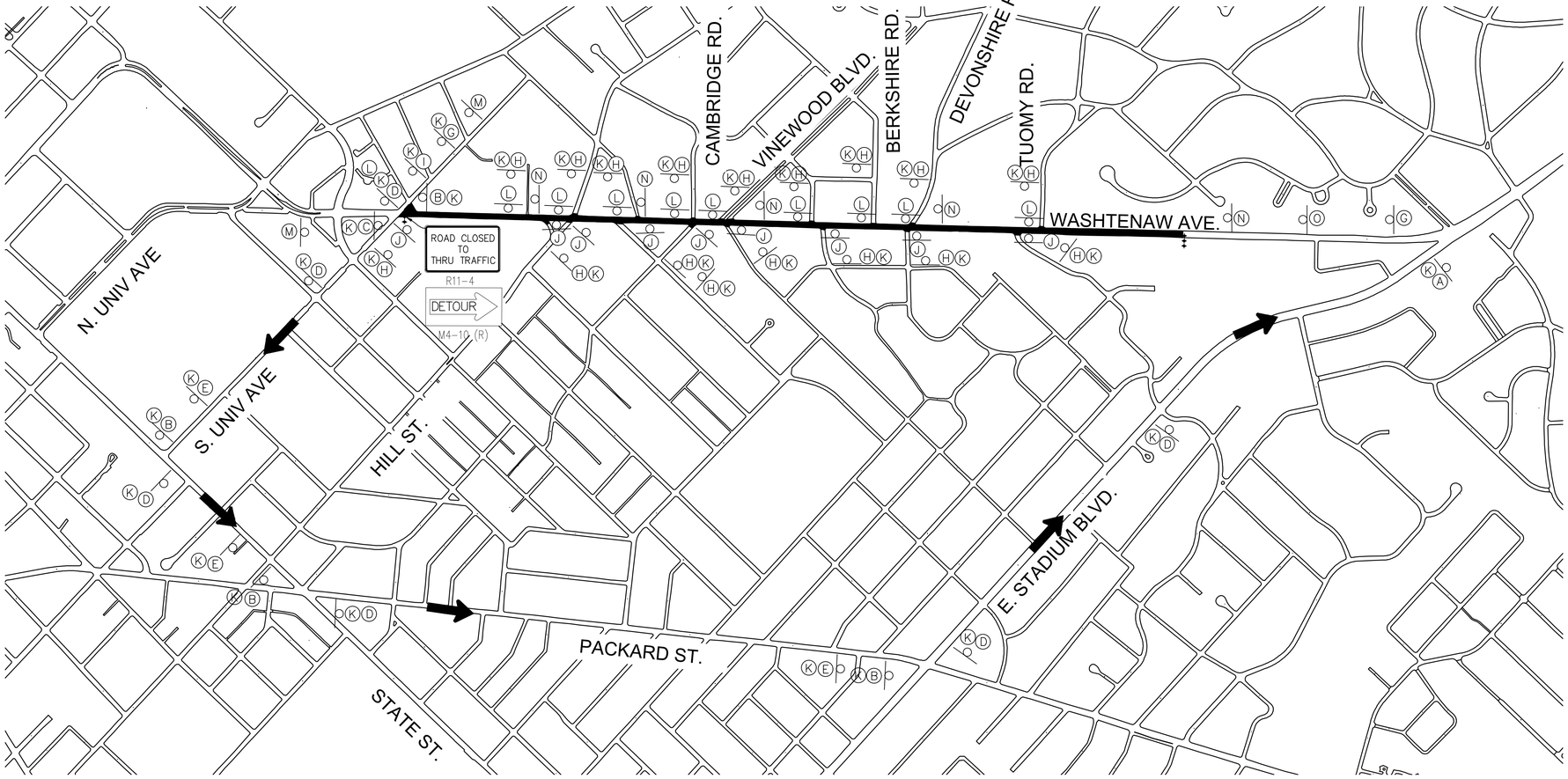
CONSTRUCTION PLAN - STA 66+50 TO P.O.E.

SCALE : 1" = 20'

DRAWING No. 2025-015-43

SHEET No. 43 OF 44

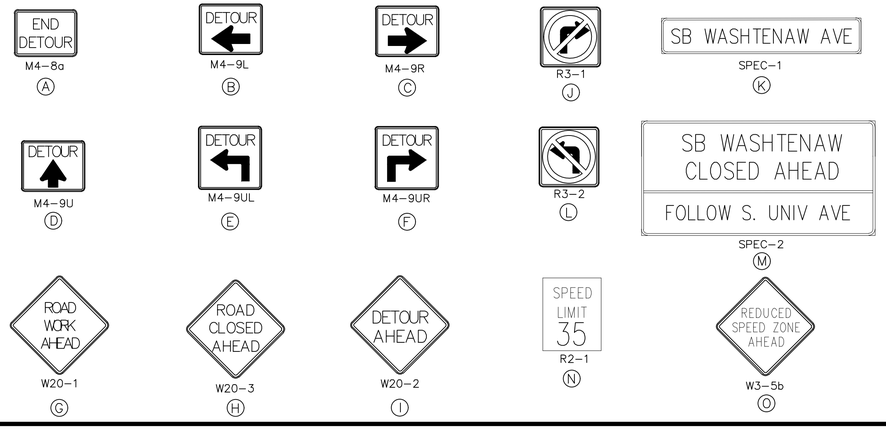
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DETOUR PLAN

TRAFFIC QUANTITIES - THIS SHEET

Item	Quantity	Unit
Sign, Type B, Temp, Prismatic, Furn & Oper	610	Sft
Sign, Type B, Temp, Prismatic, Special, Furn & Oper	170	Sft
Plastic Drum, High Intensity, Lighted, Furn & Oper	200	Ea
Barricade, Type III, High Intensity, Double Sided, Lighted, Furn & Oper	20	Ea
Pedestrian Type II Barricade, Temp, Furn & Oper	10	Ea



CONSTRUCTION SIGNING QUANTITIES (SIGN, TYPE B, TEMP, PRISMATIC)

SIGN	ITEM DESCRIPTION	SIZE (IN X IN)	SIZE (SFT)	QTY	AREA (SFT)
M4-8a	END DETOUR	24 X 30	5	1	5
M4-9	DETOUR UP	24 X 30	5	6	30
M4-9 (R)	DETOUR RIGHT	24 X 30	5	1	5
M4-9 (L)	DETOUR LEFT	24 X 30	5	4	20
M4-9 (UL)	DETOUR ADVANCE LEFT	24 X 30	5	4	20
M4-10 (R)	DETOUR	48 X 18	6	1	6
W3-5b	REDUCED SPEED ZONE AHEAD	48 X 48	16	1	16
W20-1	ROAD WORK AHEAD	48 X 48	16	2	32
W20-2	DETOUR AHEAD	48 X 48	16	1	16
W20-3	ROAD CLOSED AHEAD	48 X 48	16	16	256
R2-1	SPEED LIMIT "35"	24 X 30	5	4	20
R3-1	NO RIGHT TURN SYM	36 X 36	9	9	81
R3-2	NO LEFT TURN SYM	36 X 36	9	10	90
R11-4	ROAD CLOSED TO THRU TRAFFIC	60 X 30	12.5	1	13
			TOTAL	61	610

CONSTRUCTION SIGNING QUANTITIES (SIGN, TYPE B, TEMP, PRISMATIC, SPEC)

SIGN	ITEM DESCRIPTION	SIZE (IN X IN)	SIZE (SFT)	QTY	AREA (SFT)
SPEC-1	SB WASHTENAW AVE	54 X 10	3.75	33	124
SPEC-2	SB WASHTENAW CLOSED AHEAD	42 X 78	22.75	2	46
			TOTAL	35	170

NOTES

1. DETOUR SOUTHBOUND TRAFFIC AND MAINTAIN NORTHBOUND TRAFFIC ON WASHTENAW AVE .
2. CONTRACTOR TO COORDINATE WITH AAATA FOR BUS STOPS ALONG WASHTENAW AVE.
3. PLACE W20-1 SIGNS ON ALL CROSSROADS ALONG WASHTENAW AVE WITHIN THE PROJECT LIMITS.
4. PLACE APPROPRIATE R6-1 SIGNS ACROSS ALL DRIVEWAYS ALONG WASHTENAW AVE WITHIN THE PROJECT LIMITS.
5. LEAD-IN PLACED AT 400' SPACING.
6. ADJUST ALL SIGNS AS NECESSARY TO FIT FIELD CONDITIONS.

LEGEND

TYPE III BARRICADE (2 EA)

SIGN

WORK ZONE

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
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WASHTENAW AVE. WATER MAIN REPLACEMENT PROJECT

DETOUR PLAN

SCALE : NO SCALE

DRAWING No. **2025-015-44**

SHEET No. **44 OF 44**

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