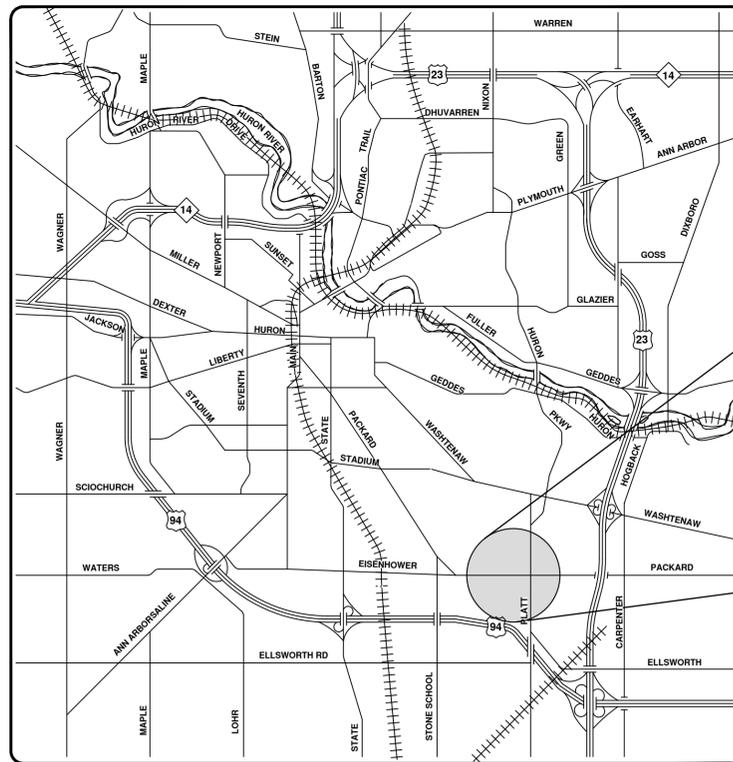




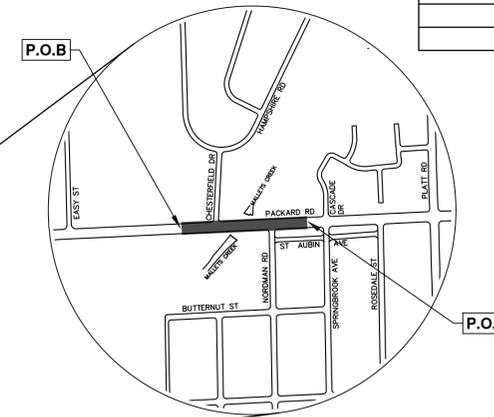
CITY OF ANN ARBOR ENGINEERING

PACKARD WATER MAIN MALLETTS CREEK

RFP No. 26-20, FILE No. 2025013



VICINITY MAP



Sheet List Table	
Sheet Number	Sheet Title
1	Cover Sheet
2	Standard Notes
3	Legend
Maintenance of Traffic - Ph. I - WM HDPE Directional Drill	
4	P.O.B. - Sta. 16+00
5	Sta. 16+00 - P.O.E.
Maintenance of Traffic - Ph. II - WM Connections and Abandonment	
6	P.O.B. - Sta. 18+00
7	Sta. 18+00 - P.O.E.
Removals	
8	P.O.B. - P.O.E.
Packard Water Plan & Profile	
9	P.O.B. - Sta. 20+50
10	Sta. 20+50 - P.O.E.
Restoration	
11	P.O.B. - P.O.E.

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.



NO	REVISION	DATE	BY	CHECKED

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



CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

PREPARED UNDER THE SUPERVISION OF
Christopher Carson
CHRISTOPHER CARSON, P.E. - MI LICENSE No. 6201047156
PROJECT ENGINEER



SCALE
DRAWING No. 2025013-1

SHEET No. 1 OF 11

R:\2025013 Packard WM Malletts Creek\Plan_Production\2025013Cov.dwg - _a2 standard bw.stb - Plot Date: 3/12/2026 5:23:52 PM

© PACKARD WATER MAIN MALLETTS CREEK; RFP No. 26-20; 2025013

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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, the lead will be replaced to the curb box by Public Works.
8. For the installation of corporations, or any other related activities, the Contractor shall not receive additional compensation for delays due to the scheduling of or coordination with the City of Ann Arbor Public Works.
9. The Contractor shall backfill trenches in accordance with Trench Detail specified on plans. This work shall be included in the item of work "Excavate and Backfill for Water Service Tap and Lead". All concrete removals and replacements required for this work will be paid for separately.
10. Water main fittings, other than those specifically listed as separate pay items, which are required to complete the work, such as blow-off assemblies, concrete thrust blocks, solid sleeves and mechanical plugs, shall not be paid for separately, but shall be included in the pipe pay items.
11. "No Parking" signs shall be installed by the Contractor at locations as approved or directed by the Engineer. All signs shall be installed in accordance with the detailed specifications.
12. Postal delivery and refuse pickup service shall be maintained at all times by the Contractor.
13. All fittings, hydrants, valves and castings removed during construction are the property of the City of Ann Arbor. The Contractor within 48 hours shall deliver to City of Ann Arbor Public Works Facility at the W.R. Wheeler Service Center located at 4251 Stone School Road.
14. Where street curbs are undermined due to construction activities, they shall be removed and replaced as directed by the Engineer.
15. The Contractor shall be responsible for the continuous maintenance of the temporary road surface and soil erosion control measures within the construction area until the full completion of the project. This work shall be included in the item of work "General Conditions".
16. All curb, sidewalk, driveway approach removals shall be approved by Engineer before the work is done.
17. The location of material stock piles and on-site staging areas to be approved by the Engineer.
18. All structures shall receive new castings as directed by the Engineer, as specified on the standard casting schedule. The existing castings are the property of the City of Ann Arbor. The Contractor shall deliver to City of Ann Arbor Public Works Facility at the W.R. Wheeler Service Center located at 4251 Stone School Road.
19. Existing street name, guide, and regulatory signs, and mailboxes which conflict with the proposed construction shall be removed prior to construction, stored in a manner which will prevent damage, and re-set in locations as directed by the Engineer.

PACKARD WATER MAIN MALLET'S CREEK BENCHMARKS		
BM #	ELEV	DESCRIPTION
103	806.80	TOP OF NUT FOR ABANDONED HYDRANT, ±7 FEET INSIDE OF PUMP HOUSE GATE.
104	803.99	PK NAIL IN EAST FACE OF UTILITY POLE, ±100 FEET EAST OF EAST PERIMETER FENCE FOR PUMP HOUSE.
105	812.02	NAIL IN NORTH FACE OF 18 INCH TREE IN THE SOUTHEAST QUADRANT OF THE INTERSECTION OF PACKARD ROAD AND NORDMAN ROAD, ±56 FEET EAST OF THE CENTERLINE OF NORDMAN ROAD AND ±52 FEET SOUTH OF THE CENTERLINE OF PACKARD ROAD.

PERMITS REQUIRED TO BE OBTAINED BY THE CONTRACTOR PRIOR TO THE BEGINNING OF CONSTRUCTION.

PERMIT	ISSUING AUTHORITY
LANE CLOSURE PERMIT*	CITY OF ANN ARBOR ENGINEERING
"NO PARKING" SIGNS PERMIT*	CITY OF ANN ARBOR ENGINEERING
GRADING/SOIL EROSION & SEDIMENTATION CONTROL PERMIT*	CITY OF ANN ARBOR CUSTOMER SERVICE
RIGHT-OF-WAY PERMIT*	CITY OF ANN ARBOR CUSTOMER SERVICE
* NO COST TO CONTRACTOR	

PERMITS REQUIRED TO BE OBTAINED BY THE CITY OF ANN ARBOR PRIOR TO THE BEGINNING OF CONSTRUCTION.

PERMIT	ISSUING AUTHORITY
WATER MAIN CONSTRUCTION PERMIT	MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY (EGLE)

CONTACT INFORMATION

PUBLIC UTILITIES	OWNER	CONTACT
WATER	CITY OF ANN ARBOR PUBLIC WORKS W.R. WHEELER SERVICE CENTER 4251 STONE SCHOOL ROAD ANN ARBOR, MI 48108	(734) 794-6350
SANITARY		
STORM		
FORESTRY		
SIGNS SIGNALS STREET LIGHTS		
FIBER OPTIC	CITY OF ANN ARBOR INFORMATION TECHNOLOGY LARCUM CITY HALL 301 E. HURON STREET ANN ARBOR, MI 48107	(734) 794-6550
PRIVATE UTILITIES	OWNER	CONTACT
GAS	DTE ENERGY 3150 E. MICHIGAN AVE, YPSILANTI TOWNSHIP, MI 48198	ADAM EGELER 734 929-8042 ADAM.EGELER@DTEENERGY.COM
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	STEPHEN BECK (248) 972-7511
PHONE	AT&T 550 S. MAPLE ROAD ANN ARBOR, MI 48103	CHRIS SHOUP (734) 263-7385 CS6558@ATT.COM
FIBER OPTIC	MCI/VERIZON 4401 STECKER STREET DEARBORN, MICHIGAN 48126	MARLON REDD (313) 588-0849 MARLON.REDD@VERIZON.COM
FIBER OPTIC	WINDSTREAM 1295 S LINDEN ROAD, SUITE B FLINT, MI 48532	DAVID BEGGS (810) 397-8956 DAVID.BEGGS@WINDSTREAM.COM
FIBER OPTIC	ADVANCED COMMUNICATIONS & DATA 1800 NORTH GRAND RIVER AVE LANSING, MI 48906	OSP@ACD.NET
STREET LIGHTING	DTE ENERGY 8001 HAGGERTY ROAD BELLEVILLE, MI 48111	LANCE ALLEY (734) 397-4188



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CITY OF ANN ARBOR PUBLIC SERVICES - ENGINEERING

PACKARD WATER MAIN MALLET'S CREEK

STANDARD NOTES

SCALE: NTS

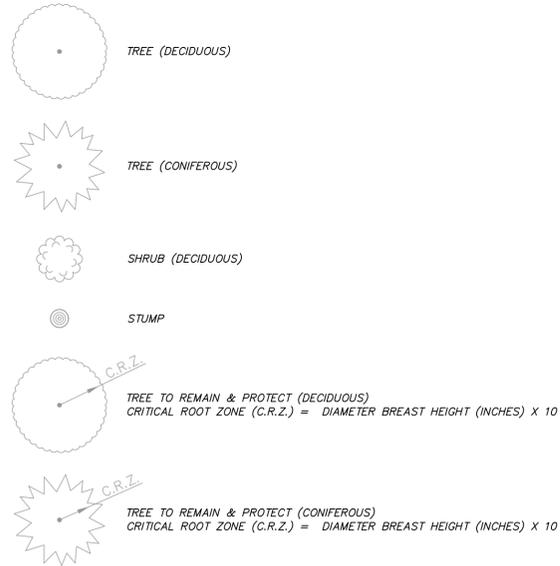
DRAWING No. 2025013-2

SHEET No.

2 OF 11

EXISTING LEGEND

EX = EXISTING		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



PROPOSED LEGEND

PROP = PROPOSED		HYDRANT (PLAN)
		WATER GATE VALVE IN BOX
		WATER VAULT
		HIGH CAPACITY INLET
		ROUND CATCH BASIN
		DRAIN ARROW
		OVERFLOW
		CLEAN-OUT
		SIGN
		HAND HOLE
		STORM SEWER
		FIBER OPTIC
		CENTERLINE OF DITCH
		FENCE
		SILT FENCE
		GUARDRAIL
		CURB
		CONTOUR MAJOR
		WATER EASEMENT
		SANITARY EASEMENT
		LIMITS OF CONSTRUCTION
		STONE WALL
		ASPHALT
		CONCRETE RAMP
		TURF RESTORATION
		TREE (CONIFEROUS)
		TREE TO BE REMOVED (CONIFEROUS)

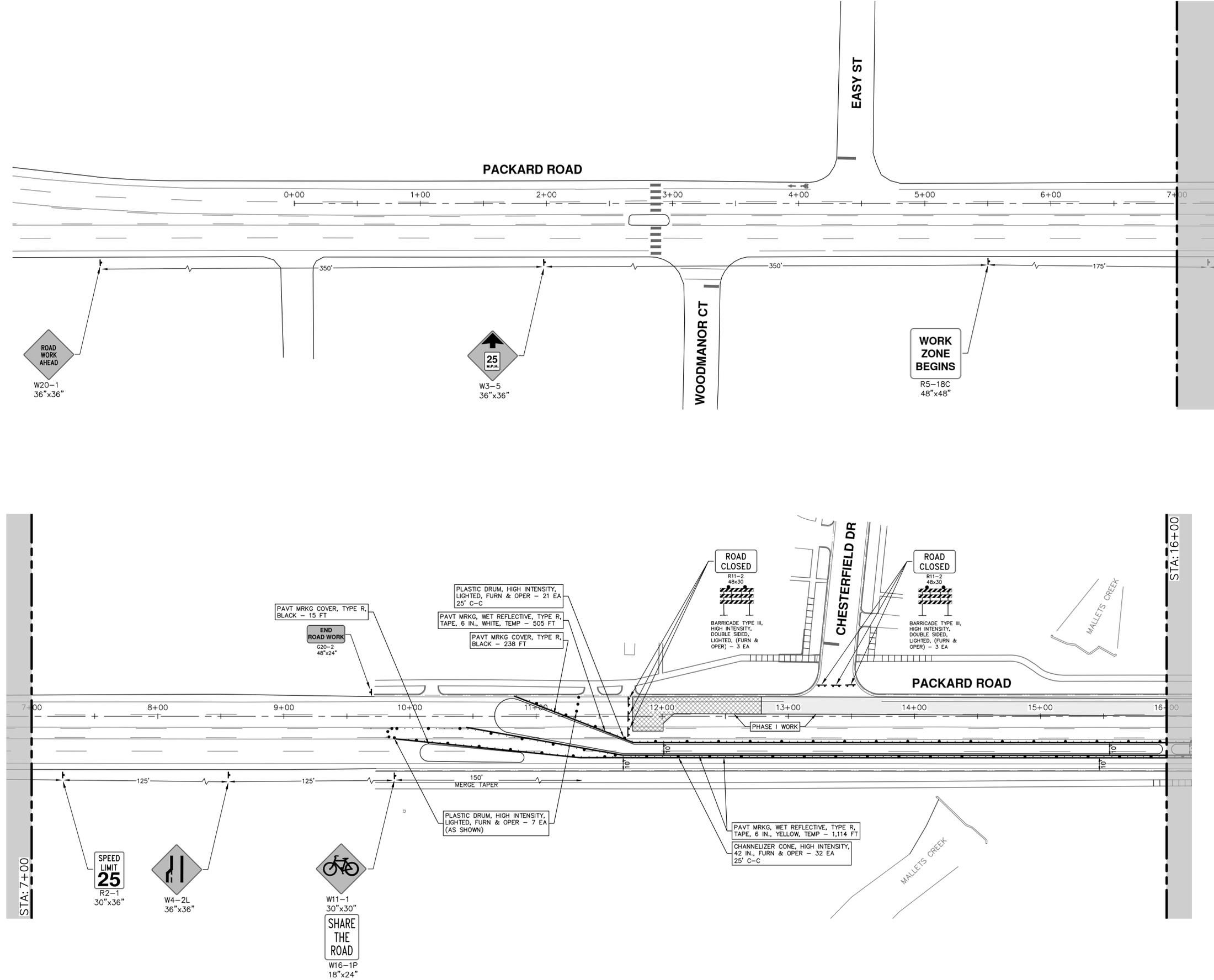


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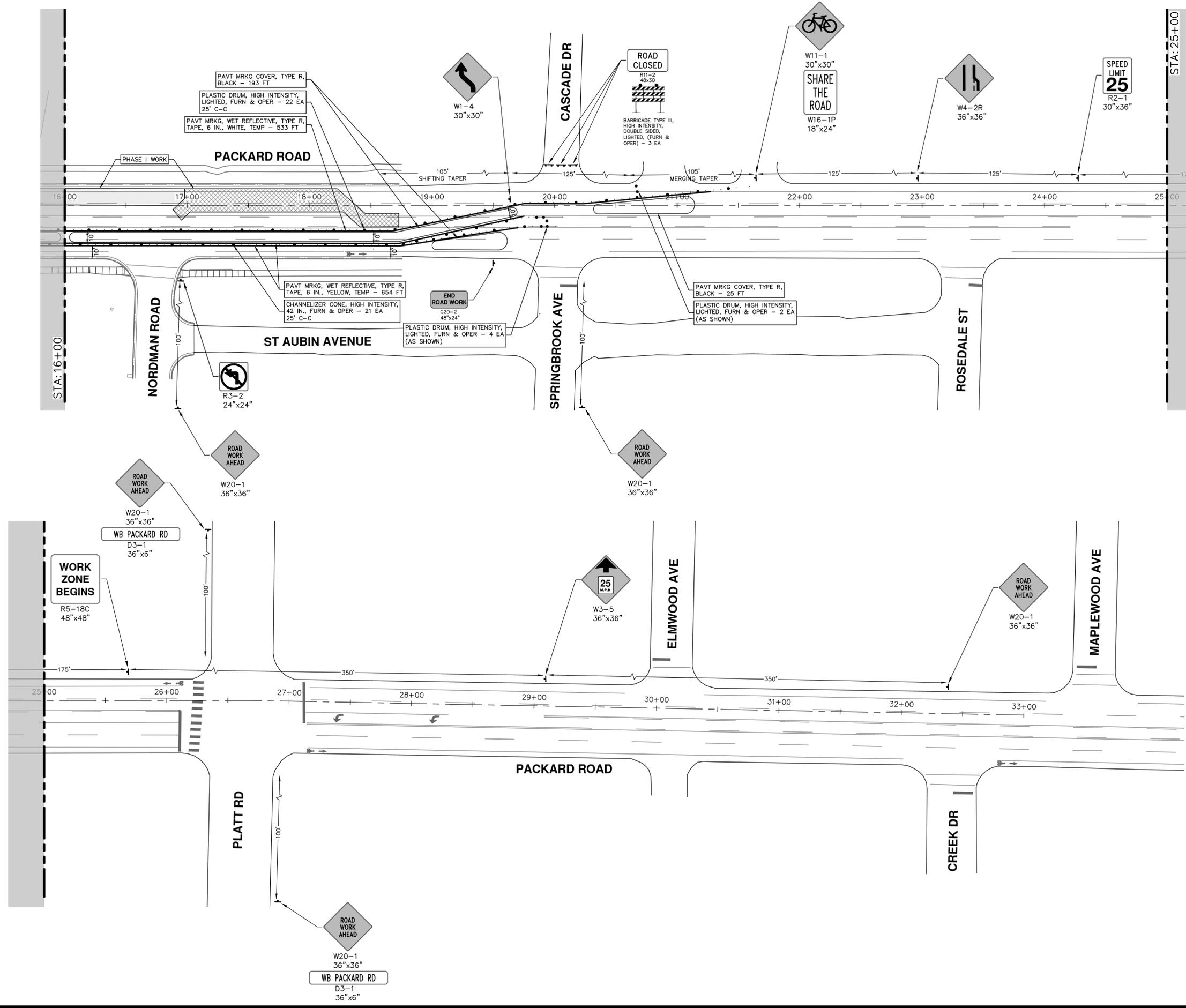
CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
 PACKARD WATER MAIN MALLETS CREEK
 SCALE: NTS
 DRAWING No. 2025013-3

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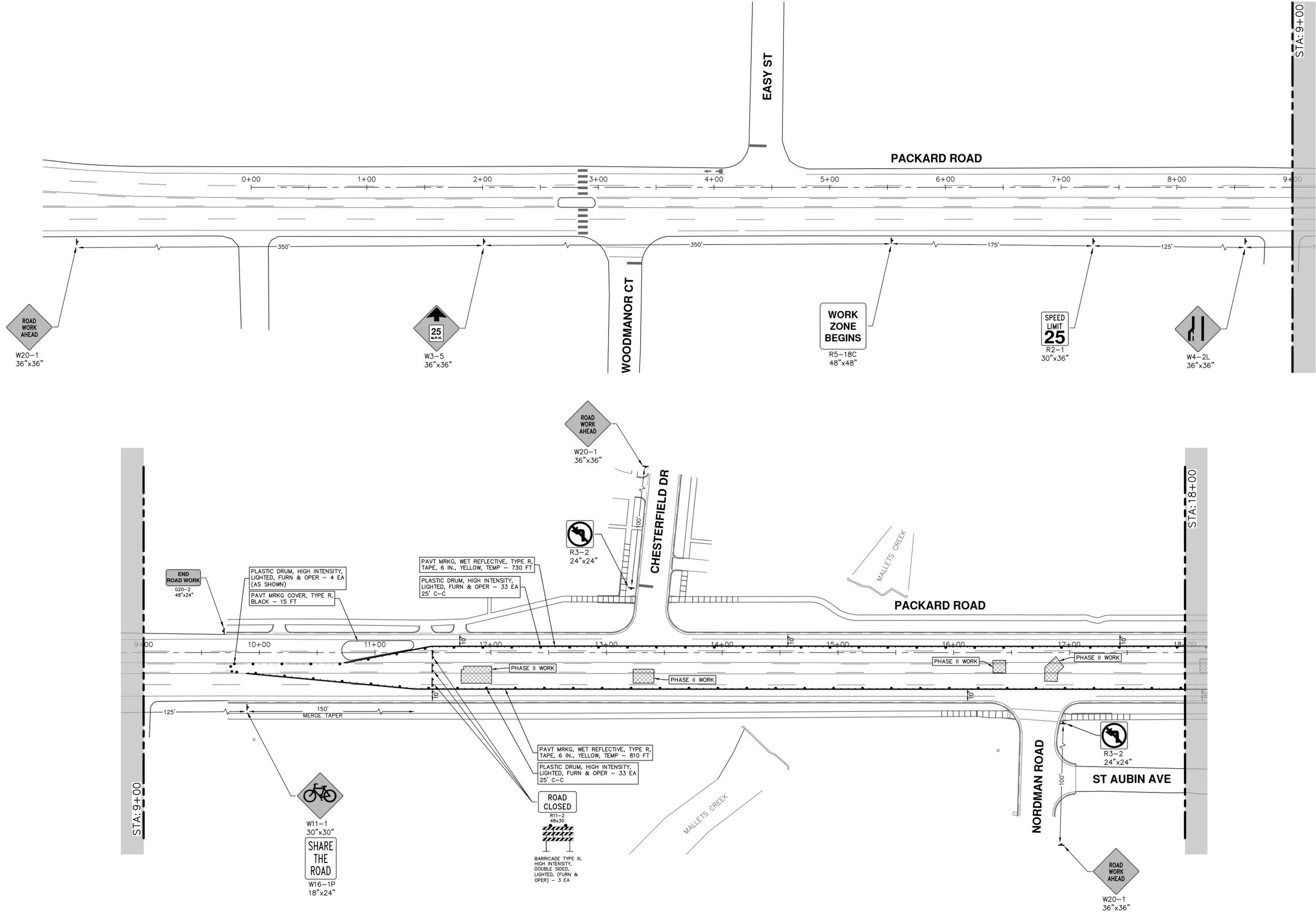
 Know what's below. Call Before you dig.	
CITY OF ANN ARBOR PUBLIC SERVICES 301 EAST HURON STREET ANN ARBOR, MI 48107-8647 www.a3gov.org	COPY: A:REV:DATE:BY:CHECKED: THIS WHEN GOING OUT FOR BID REV. DATE DATE BY DRAWN CHECKED
CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING PACKARD WATER MAIN MALLET'S CREEK MAINTENANCE OF TRAFFIC - PH. I - WM HDPE DIRECTIONAL DRILL P.O.B. - STA. 16+00 SCALE: 1" = 40' DRAWING No. 2025013-4 SHEET No. 4 OF 11	

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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING PACKARD WATER MAIN ALLEYS CREEK MAINTENANCE OF TRAFFIC - PH. I - WM HDPE DIRECTIONAL DRILL STA. 16+00 - P.O.E.	
SCALE: 1" = 40' 	DRAWING No. 2025013-5
SHEET No. 5 OF 11	
CITY OF ANN ARBOR PUBLIC SERVICES 301 EAST HURON STREET ANN ARBOR, MI 48106-8647 WWW.A2gov.org	COPY: A-REV-DATES: DWG TO PROJECT FOLDER AND REV. DATE DESCRIPTION 00 REV. DATE DESCRIPTION

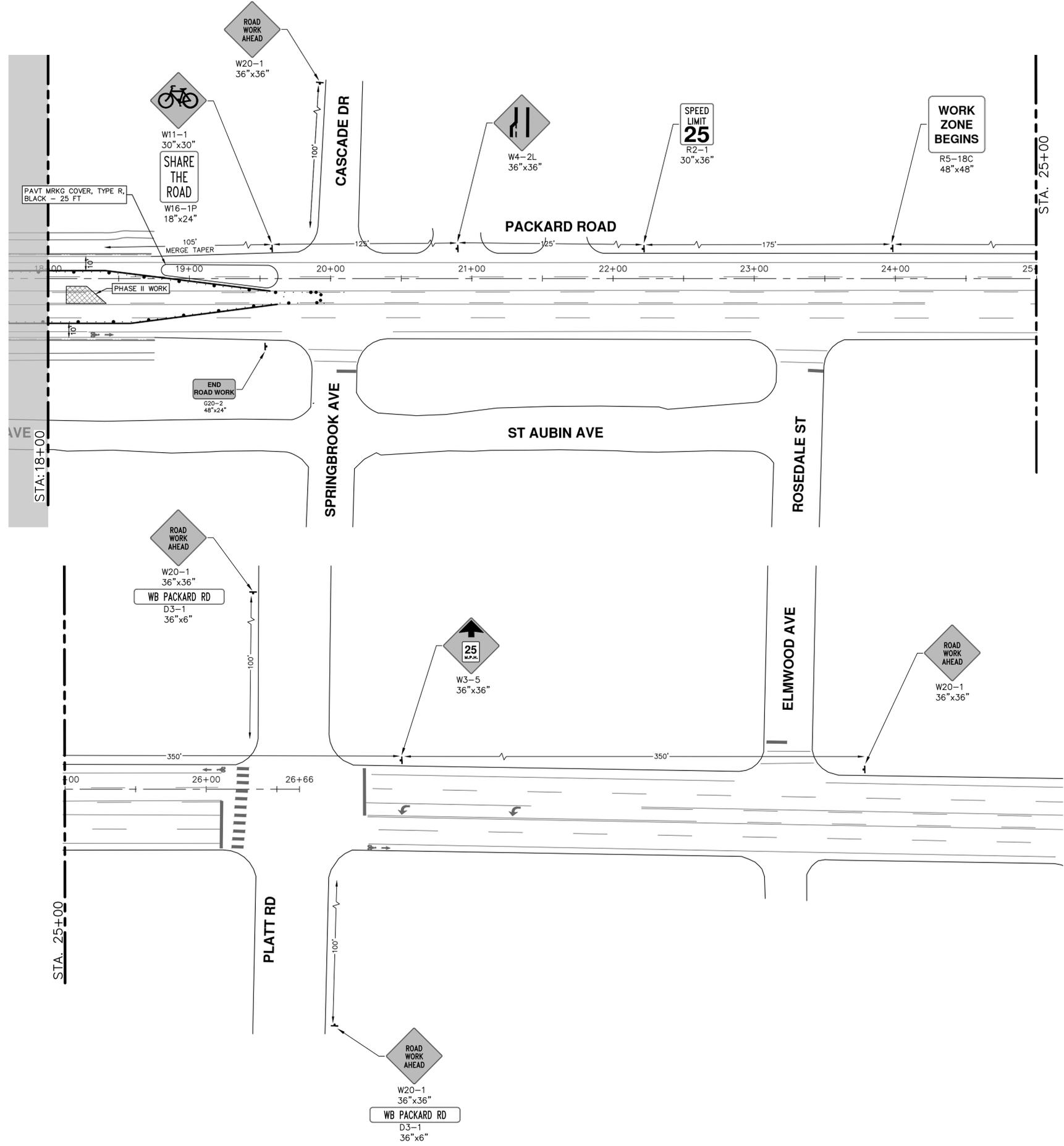
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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING PACKARD WATER MAIN MALLET'S CREEK MAINTENANCE OF TRAFFIC - PH. II - WM CONNECTIONS AND ABANDONMENT	
SCALE: 1" = 40' DRAWING No. 2025013-6	P.O.B. - STA. 18+00
SHEET No. 6 OF 11	
CITY OF ANN ARBOR PUBLIC SERVICES 301 EAST HURON STREET ANN ARBOR, MI 48106-6647 ANN ARBOR: 734.794.4410 WWW.A2GOV.ORG	COPY: A2REVDATE: DWG TO PROJECT FOLDER AND REVISE THIS WHEN GOING OUT FOR BID DATE DATE BY BY DRAWN CHECKED

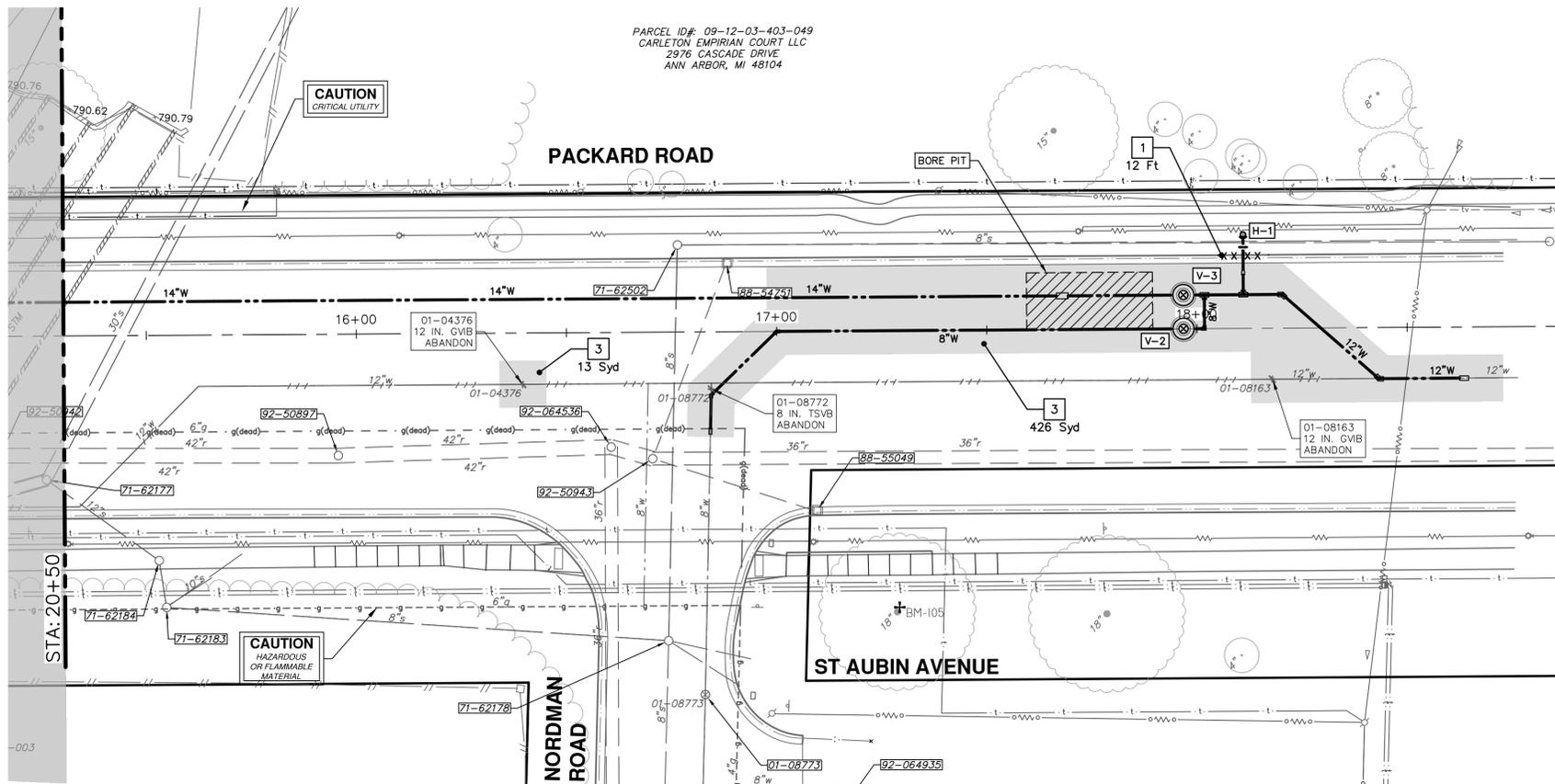
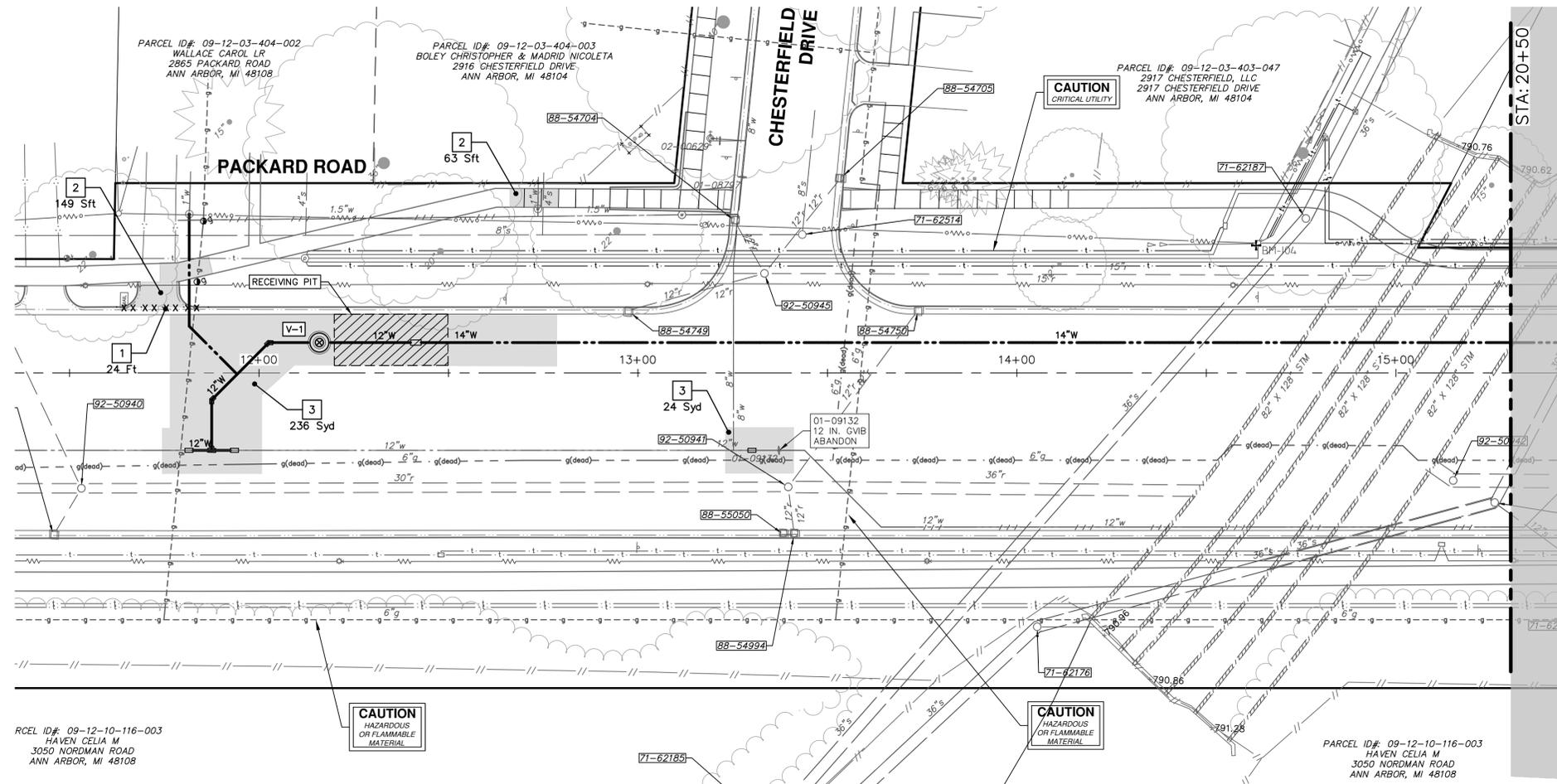
REV.	DESCRIPTION
00	REVISE THIS WHEN GOING OUT FOR BID

811
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		CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING SCALE: ##### DRAWING No. 2025013-7	
CITY OF ANN ARBOR PUBLIC SERVICES 301 EAST HURON STREET ANN ARBOR, MI 48106-6647 www.a2gov.org		PACKARD WATER MAIN MALLET'S CREEK MAINTENANCE OF TRAFFIC - PH. II - WM CONNECTIONS AND ABANDONMENT STA. 18+00 - P.O.E.	
REV.	DESCRIPTION	DATE	CHECKED
00	REVISE THIS WHEN GOING OUT FOR BID	DATE	BY
			DRAWN
			CHECKED

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

* SAWCUT FULL DEPTH AT REMOVAL LIMITS AS DIRECTED BY ENGINEER



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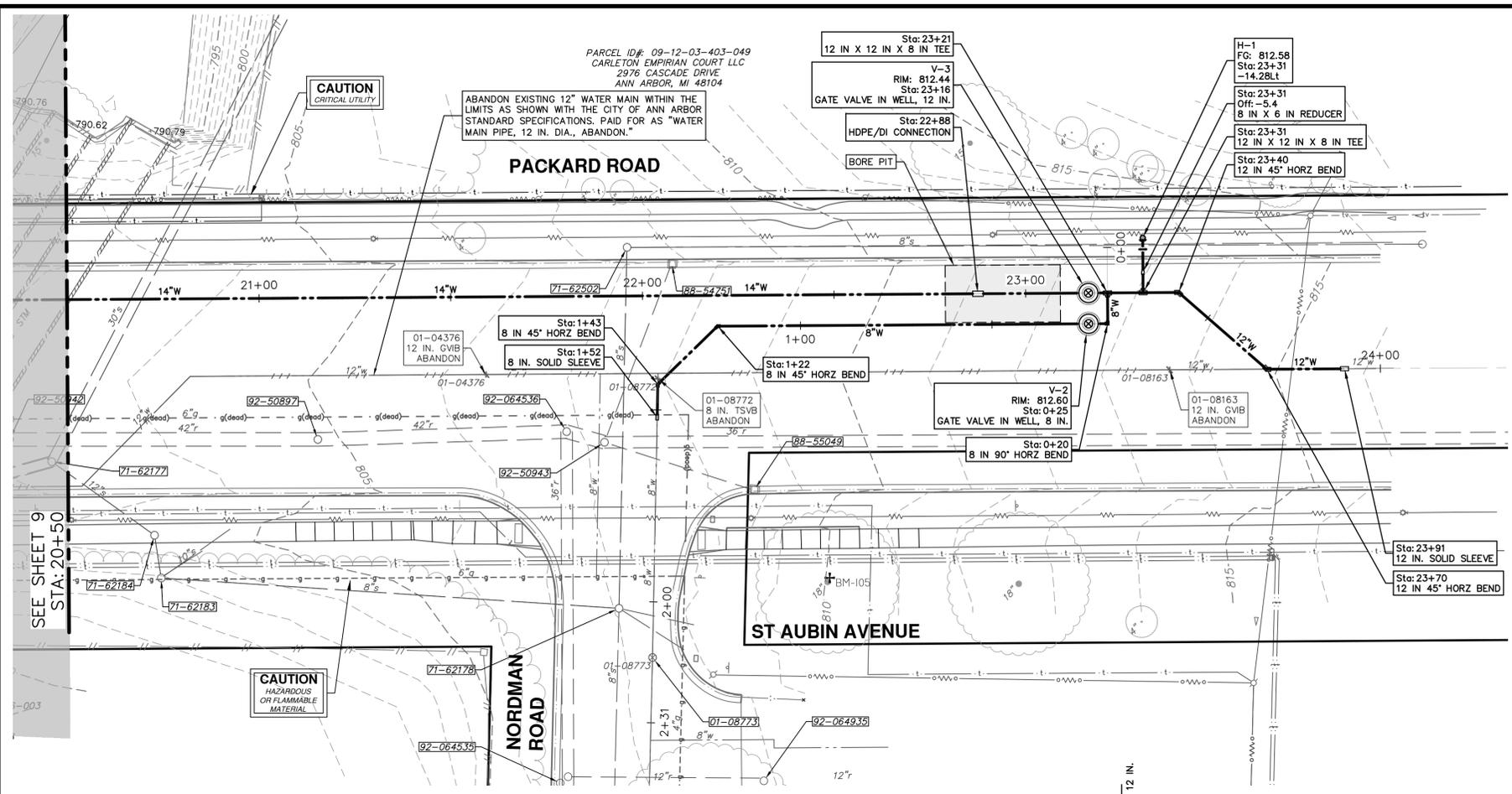
CITY OF ANN ARBOR
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ANN ARBOR, MI 48106-1667
www.a2gov.org



CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
REMOVALS
PACKARD WATER MAIN ALLEYS CREEK

SCALE PLAN: 1" = 20'
DRAWING No. 2025013-8

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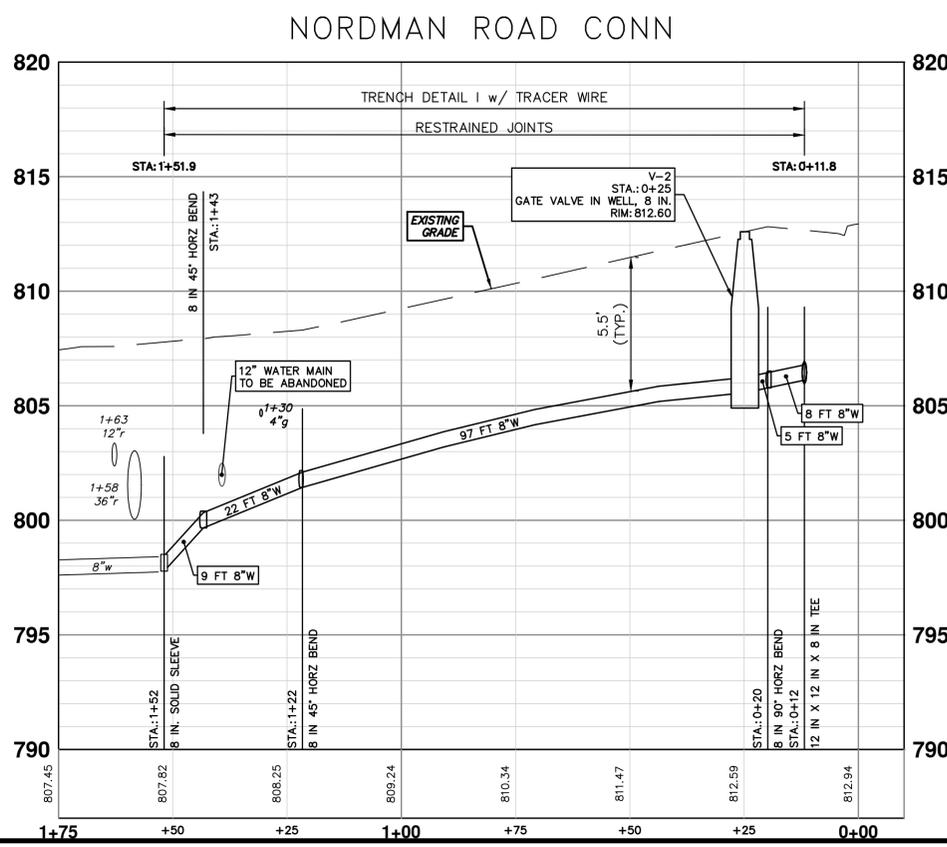
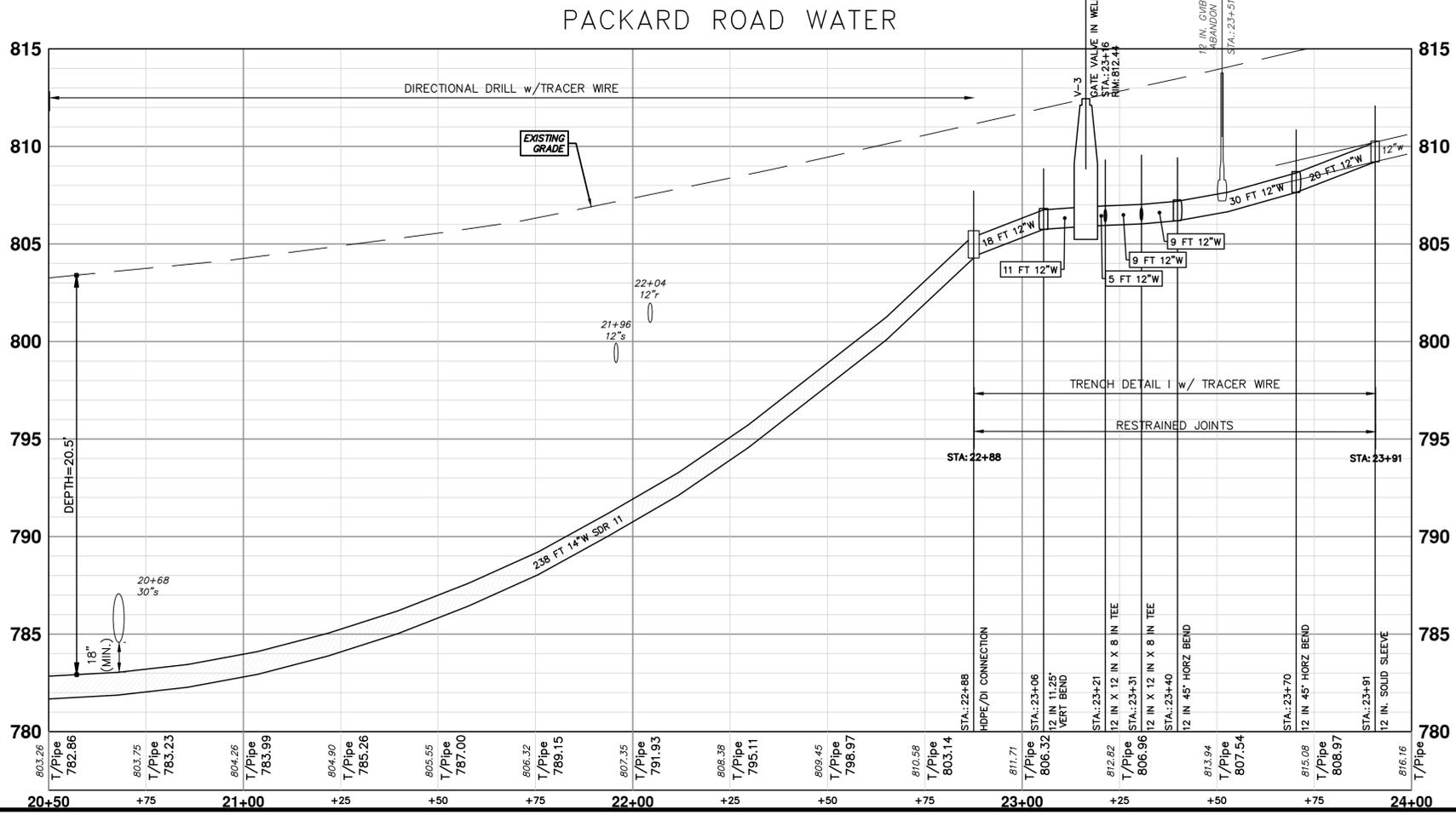


WHERE EXISTING WATER MAIN IS EXPOSED FOR A CONNECTION OR APPURTENANCE INSTALLATION, THE CONTRACTOR SHALL INSTALL ONE SACRIFICIAL ANODE ON THE EXISTING PIPE. IF THE NEW FITTING IS INSTALLED IN-LINE WITH THE EXISTING MAIN, SUCH AS AT A CUT-IN TEE OR VALVE INSERTION, ONE ANODE SHALL BE INSTALLED ON THE EXISTING PIPE TO EACH SIDE OF THE NEW FITTING. EACH ANODE INSTALLED ON EXISTING WATER MAIN WILL BE PAID FOR AS 'SACRIFICIAL ANODE, 34 LB'

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

WATER MAIN STRUCTURES			
STRUCTURE	TYPE	STATION	RIM
V-2	Gate Valve in Well, 8 In.	0+25	812.60
V-3	Gate Valve in Well, 12 In.	23+16	812.44

WATER HYDRANT(S)			
NUMBER	TYPE	STATION	FG
H-1	Hydrant Assembly	23+31	812.58





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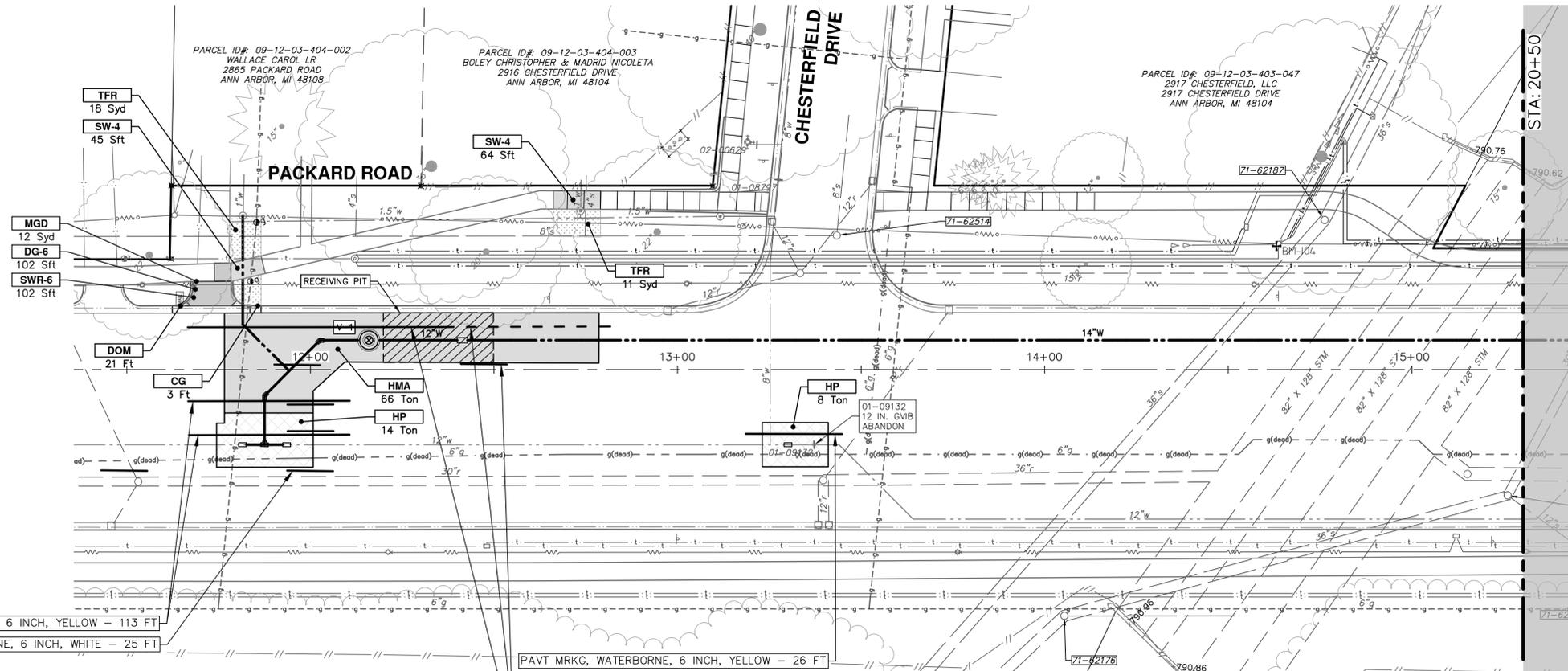
CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
PACKARD WATER MAIN PLAN & PROFILE
STA. 20+50 - P.O.E.

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

DRAWING NO.
2025013-10

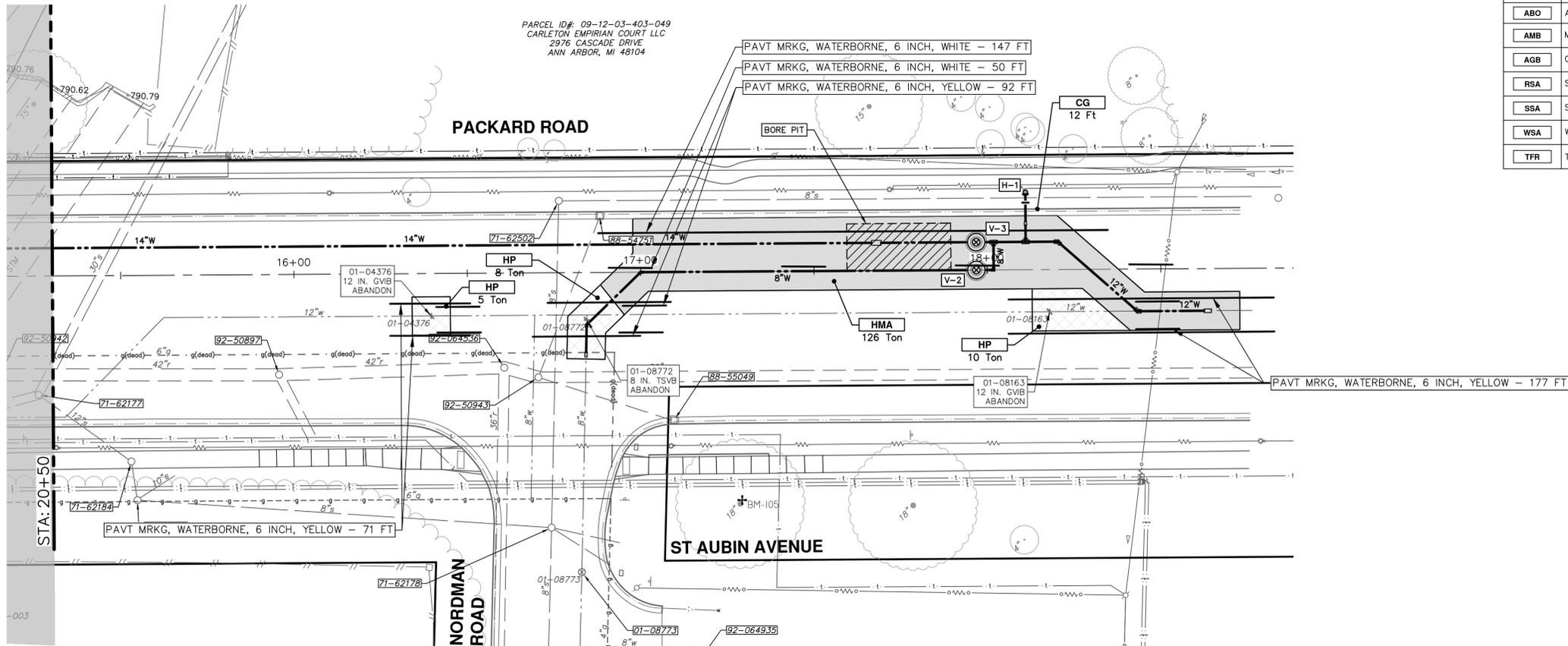
SHEET NO.
10 OF 11

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- PAVT MRKG, WATERBORNE, 6 INCH, YELLOW - 113 FT
- PAVT MRKG, WATERBORNE, 6 INCH, WHITE - 25 FT
- PAVT MRKG, WATERBORNE, 6 INCH, YELLOW - 26 FT
- PAVT MRKG, WATERBORNE, 6 INCH, WHITE - 25 FT
- PAVT MRKG, WATERBORNE, 6 INCH, WHITE - 16 FT
- PAVT MRKG, WATERBORNE, 6 INCH, WHITE - 67 FT

RCEL ID# 09-12-10-116-003
HAVEN CELIA M
3050 NORDMAN ROAD
ANN ARBOR, MI 48108



- PAVT MRKG, WATERBORNE, 6 INCH, WHITE - 147 FT
- PAVT MRKG, WATERBORNE, 6 INCH, WHITE - 50 FT
- PAVT MRKG, WATERBORNE, 6 INCH, YELLOW - 92 FT
- PAVT MRKG, WATERBORNE, 6 INCH, YELLOW - 177 FT
- PAVT MRKG, WATERBORNE, 6 INCH, YELLOW - 71 FT

CONSTRUCTION KEY	
KEY	DESCRIPTION
HMA	PLACE HMA, PLACE MATERIAL IN LIFTS ACCORDING TO THE TYPICAL SECTION AND AS DIRECTED BY THE ENGINEER.
HMA APP	HMA Approach
HP	Hand Patching
CG	Conc. Curb or Curb & Gutter, All Types
DOM	Conc. Driveway Opening, Type M
DOM-HE	Conc. Driveway Opening, Type M, High Early
DG-6	DRIVEWAY GRAVEL 6 INCH 21AA LIMESTONE, C.I.P.
MGD	MACHINE GRADING, DRIVEWAY
SW-4	Conc. Sidewalk, 4 In.
SWR-6	Conc. Sidewalk, Drive Approach, or Ramp, 6 In.
SW6-HE	Conc. Sidewalk, Drive Approach, or Ramp, 6 In., High Early
SW8	Conc. Sidewalk, Drive Approach, or Ramp, 8 In.
DWS	Detectable Warning Surface
ABO	ADJUST BY OTHERS
AMB	Monument Box, Adjust
AGB	Gate Box, Adjust
RSA	Storm Structure Cover, Adjust
SSA	Sanitary Structure Cover, Adjust
WSA	Water Structure Cover, Adjust
TFR	Turf Restoration



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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
PACKARD WATER MAIN ALLEYS CREEK RESTORATION
P.O.B. - P.O.E.

SCALE PLAN: 1" = 20'
DRAWING No. 2025013-11