



CITY OF ANN ARBOR ENGINEERING

GEDDES ROAD WATER MAIN

BID No. ITB 4656, FILE No. 2018040

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 1994 EDITION OF THE CITY OF ANN ARBOR PUBLIC SERVICES DEPARTMENT STANDARD SPECIFICATIONS, IT'S DETAILS, WHICH ARE INCLUDED BY REFERENCE, AND THIS PROJECT'S CONTRACT DOCUMENTS. THE OMISSION OF ANY CURRENT STANDARD DETAIL DOES NOT RELIEVE THE CONTRACTOR FROM THIS REQUIREMENT.



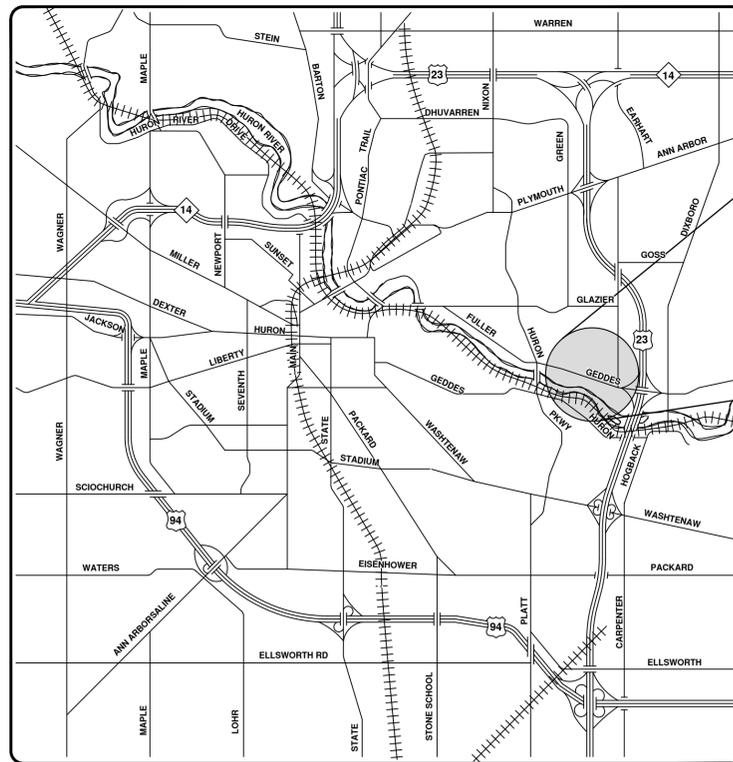
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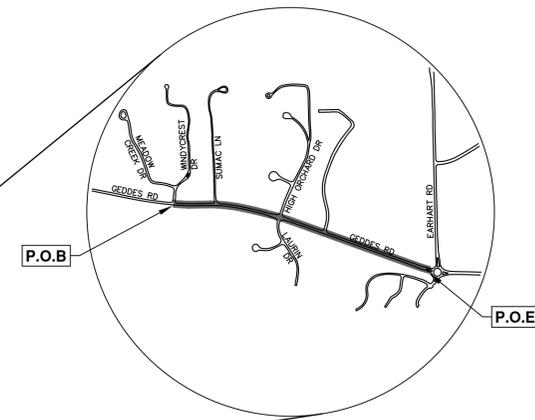


CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
PROJECT DESCRIPTION AND LIMITS
SCALE
DRAWING No. 2018040-1
SHEET No. 1 OF 42

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VICINITY MAP



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PREPARED UNDER THE SUPERVISION OF
Igor V. Kotlyar
IGOR V. KOTLYAR, P.E. - MI LICENSE No. 43287
PROJECT ENGINEER
/ / 2021
DATE



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CONSTRUCTION NOTES:

- 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.
- The location and depth of all existing utilities and service leads are to be field verified by the Contractor prior to construction.
- 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.
- The Contractor is to take special care to protect the existing water main and be responsible for maintaining consistent water service.
- 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".
- Trenches for new water services shall be excavated to MIOSHA and City of Ann Arbor Public Works requirements.
- 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.
- 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.
- 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.
- All ductile iron pipe and fittings shall be polyethylene wrapped per ANSI/AWWA C105/A21.5.
- Cor-blu bolts to be used at all mechanical water main joints at hydrants and Megalug fittings
- 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.
- 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.
- "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.
- Postal delivery and refuse pickup service shall be maintained at all times by the Contractor.
- 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.
- Where street curbs are undermined due to construction activities, they shall be removed and replaced as directed by the Engineer.
- 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".
- All curb, sidewalk, driveway approach removals shall be approved by Engineer before the work is done.
- Sawed sewer pipe connections shall be coupled with a Fernco flexible coupling and a stainless steel shear ring.
- The location of material stock piles and on-site staging areas to be approved by the Engineer.
- 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.
- 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.
- Payment for drainage structure sumps, where specified, shall be included in the payment for the various drainage structure sizes and or types.
- 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.
- 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.
- 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 "Machine Grading, Modified"
- In areas where edge drain cannot be installed in accordance with City of Ann Arbor Detail SD-TD-11, 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.

GENERAL
NOTIFY THE CITY OF ANN ARBOR SOIL EROSION CONTROL OFFICE 48 HOURS PRIOR TO BEGINNING WORK ON THE PROJECT. PHONE: 734-794-6265.

- THE CONTRACTOR SHALL IMPLEMENT AND MAINTAIN THE SOIL EROSION CONTROL MEASURES AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER AT ALL TIMES DURING CONSTRUCTION. ANY MODIFICATIONS OR ADDITIONS TO THE SOIL EROSION CONTROL MEASURES DUE TO CONSTRUCTION OR CHANGED CONDITIONS SHALL BE AS DIRECTED AND APPROVED BY THE ENGINEER.
- ALL SOIL EROSION AND SEDIMENTATION CONTROL WORK SHALL CONFORM TO THE PERMIT REQUIREMENTS OF THE CITY OF ANN ARBOR, CHAPTER 55 ANN ARBOR UNIFIED DEVELOPMENT CODE, CITY OF ANN ARBOR STANDARDS DIVISION VII, THE LAWS OF THE STATE OF MICHIGAN, AND THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
- DAILY, OR AFTER ANY STORM EVENT, INSPECTIONS OF EROSION CONTROL MEASURES SHALL BE MADE BY THE CONTRACTOR. PERIODIC INSPECTIONS MAY BE MADE BY THE ENGINEER TO DETERMINE THE EFFECTIVENESS OF EROSION AND SEDIMENTATION CONTROL MEASURES. ANY NECESSARY CORRECTIONS SHALL BE MADE WITHOUT DELAY, AND WITHOUT ADDITIONAL COST TO THE CITY OF ANN ARBOR.
- EROSION AND SEDIMENTATION FROM WORK ON THE SITE SHALL BE CONTAINED ON THE SITE AND NOT BE ALLOWED TO COLLECT ON ANY OFF-SITE AREAS, ROADWAYS OR WATERWAYS.
- ALL MUD/SOIL TRACKED ONTO ROADWAYS FROM THE SITE DUE TO CONSTRUCTION, SHALL BE PROMPTLY REMOVED BY THE CONTRACTOR. IF SO ORDERED, THE CONTRACTOR SHALL PROVIDE AND OPERATE A VACUUM-TYPE STREET SWEEPER, AT NO ADDITIONAL COST TO THE CITY OF ANN ARBOR.
- RESTORATION OF ALL DISTURBED AREAS, INCLUDING PLACEMENT OF TOPSOIL, SEED, FERTILIZER AND MULCH AND/OR SOD SHALL BE PERFORMED WITHIN FIVE (5) DAYS OF THE COMPLETION OF FINAL GRADE.
- CONSTRUCTION OPERATIONS SHALL BE SCHEDULED AND PERFORMED SO THAT PREVENTATIVE SOIL EROSION CONTROL MEASURES ARE IN PLACE PRIOR TO EXCAVATION IN CRITICAL AREAS AND TEMPORARY STABILIZATION MEASURES ARE IN PLACE IMMEDIATELY FOLLOWING BACKFILLING OPERATIONS.
- SPECIAL PRECAUTIONS WILL BE TAKEN IN THE USE OF CONSTRUCTION EQUIPMENT TO PREVENT SITUATIONS THAT PROMOTE EROSION.
- PROPER DUST CONTROL SHALL BE MAINTAINED DURING CONSTRUCTION BY USE OF WATER TRUCKS AND/OR DUST PALLIATIVE AS REQUIRED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL TEMPORARY SOIL EROSION CONTROL MEASURES AND REMOVAL OF SOME MEASURES UPON AUTHORIZED COMPLETION OF THE PROJECT. FINAL COMPLETION OF PROJECT WILL NOT BE AUTHORIZED UNTIL ALL SITE WORK AND UTILITY CONSTRUCTION IS COMPLETE AND ALL SOILS ARE STABILIZED.
- THE CONTRACTOR SHALL NOT GRADE INTO ADJACENT PROPERTIES. SILT AND PROTECTIVE FENCE SHALL BE INSTALLED AND MAINTAINED TO PREVENT GRADING, EROSION AND SEDIMENTATION INTO THE ADJACENT PROPERTIES.
- TREE PROTECTION FENCING MUST REMAIN INTACT UNTIL RESTORATION OF THE SITE IS COMPLETE.

SEQUENCE OF EROSION CONTROL MEASURES:

- THE CONTRACTOR IS TO SUBMIT TO THE ENGINEER, A SEQUENCE OF CONSTRUCTION WITH RESPECT TO THE SOIL EROSION CONTROL MEASURES FOR REVIEW, COMMENT AND APPROVAL. THIS SCHEDULE IS TO INCLUDE INSPECTION AND REPAIR OF ALL TEMPORARY EROSION CONTROL MEASURES DAILY AND WITHIN 24 HOURS OF A STORM EVENT.

SAMPLE SOIL EROSION AND SEDIMENTATION CONTROL INSTALLATION MINIMUM REQUIREMENTS:

- INSTALL SILT FENCE, TREE PROTECTION FENCING, MUD MATS, INLET FILTERS ON EXISTING DRAINAGE FEATURES, AND ALL OTHER TEMPORARY SOIL EROSION CONTROLS, PRIOR TO ANY CLEARING OR EARTH MOVING OPERATION.
- STRIP AND STOCKPILE TOPSOIL. STABILIZE STOCKPILE AS REQUIRED.
- INSTALL WATER MAINS, STORM AND SANITARY SEWERS, AND OTHER ENCLOSED DRAINAGE FEATURES. NEW INLET FILTERS SHALL BE INSTALLED IMMEDIATELY FOLLOWING INSTALLATION OF NEW DRAINAGE INLETS.
- PERFORM MACHINE GRADING OPERATIONS AND CONSTRUCT PAVEMENTS (MAINLINE, SIDEWALKS, DRIVES, ETC.).
- CONTINUALLY MAINTAIN EROSION AND SEDIMENTATION CONTROL MEASURES, AS REQUIRED TO ALLOW DRAINAGE AND SEDIMENT REMOVAL. REMOVE ANY ACCUMULATED SEDIMENT IMMEDIATELY.
- COMPLETE ALL FINE GRADING.
- TEMPORARY SEED AND INSTALL EROSION CONTROL BLANKET IN ALL DISTURBED AREAS.
- REFER TO LANDSCAPE PLANTING PLANS FOR PERMANENT SITE STABILIZATION.
- CLEAN OUT STORM SEWER SYSTEMS.
- REMEDY ANY NOTED DEFECTS TO THE SATISFACTION OF THE CITY OF ANN ARBOR'S SOIL EROSION AND SEDIMENTATION CONTROL OFFICIAL.
- ALL TEMP. SOIL EROSION CONTROL MEASURES MUST BE REMOVED, WITH ENGINEERS APPROVAL, PRIOR TO FINAL INSPECTION

NOTE: THIS SEQUENCE IS FOR INFORMATION ONLY. IT IS INTENDED TO SHOW THE SEQUENCE OF CONSTRUCTION WITH RESPECT TO THE SOIL EROSION AND SEDIMENTATION CONTROL MEASURES. THE CONTRACTOR IS RESPONSIBLE FOR SUBMITTING THEIR OWN DETAILED CONSTRUCTION SEQUENCE AND SCHEDULE TO THE ENGINEER FOR REVIEW, COMMENT, AND APPROVAL.

TEMPORARY SEEDING:

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

THE ESTIMATED COST OF SOIL EROSION AND SEDIMENTATION CONTROL MEASURES, TOPSOIL, SEEDING, AND MULCH = \$50,000

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

- BnB - BOYER LOAMY SAND, 1 TO 6 PERCENT SLOPES.
- MmF - MIAMI LOAM, 25 TO 35 PERCENT SLOPES.
- WawabB - WAWASEE LOAM, 2 TO 6 PERCENT SLOPES.

IMPERVIOUS PROJECT AREA	
PRIOR TO CONSTRUCTION = 1.77 ACRES	POST CONSTRUCTION = 1.77 ACRES

AREA OF PROPOSED DISTURBANCE = 3.04 ACRES	
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PERMITS REQUIRED TO BE OBTAINED BY THE CONTRACTOR PRIOR TO THE BEGINNING OF CONSTRUCTION.

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

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

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

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	DAN WOODEN (734) 794-6350 DCWOODEN@A2GOV.ORG
SANITARY		TRAVIS CONLEY (734) 794-6350 TCONLEY@A2GOV.ORG
STORM		KEVIN SCHNEIDER (734) 794-6350 KSCHNEIDER@A2GOV.ORG
FORESTRY		MATT WALDSMITH (734) 794-6350 MWALDSMITH@A2GOV.ORG
SIGNS SIGNALS STREET LIGHTS		CHUCK FOJTIK (734) 794-6361 CFOJTIK@A2GOV.ORG
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 SUTHERLAND (313) 999-8300
PHONE	AT&T 550 S. MAPLE ROAD ANN ARBOR, MI 48103	SHAWN BURNSIDE (734) 996-5322 (313) 683-7349(MOBILE)
FIBER OPTIC	NCI 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

GEDDES ROAD WATER MAIN BENCHMARKS

BM #	ELEV	DESCRIPTION
1	753.457	SET RR SPIKE IN S. SIDE OF U.P. ON N. SIDE OF GEDDES RD (4TH POLE E. OF HURON PKWY)
2	755.003	S. RIM ON SAN. MH. IN EAST BOUND LANE. 80± W. OF CULVERT CROSSING
3	753.694	SET RR SPIKE IN S. SIDE OF U.P. ON N. SIDE OF GEDDES RD @ CULVERT CROSSING
4	758.825	S. RIM ON SAN. MH. IN EASTBOUND LANE. 65± E. OF CULVERT CROSSING
5	764.635	S. RIM ON SAN. MH. IN EASTBOUND LANE. FIRST MH W. OF WINDY CREST
6	777.488	S. RIM ON SAN. MH. IN EASTBOUND LANE @ WINDY CREST
7	777.062	SET RR SPIKE IN S. SIDE OF U.P. @ NE CORNER OF GEDDES RD & WINDY CREST
8	786.084	S. RIM ON SAN. MH. IN EASTBOUND LANE. FIRST MH E. OF WINDY CREST
9	801.568	FND NAIL IN S. SIDE OF U.P. AT NE CORNER OF GEDDES AND SUMAC LANE
10	820.756	SET RR SPIKE IN N. SIDE OF U.P. ON S. SIDE OF GEDDES. 300± W. OF HIGH ORCHARD
2007	827.060	CITY OF ANN ARBOR VERTICAL CONTROL STATION. BRASS DISC @ SW CORNER OF GEDDES AND HIGH ORCHARD
11	816.985	SET RR SPIKE IN S. SIDE OF U.P. ON N. SIDE OF GEDDES. 75± E. OF ¼ DRIVE FOR CHURCH
12	818.206	SET RR SPIKE IN S. SIDE OF U.P. ON N. SIDE OF GEDDES. 180± E. OF ¼ DRIVE FOR HSE No. 3805
13	812.501	TOP OF NE. ANCHOR FOR L.P. ON S. SIDE OF GEDDES. SECOND L.P. W. OF ROUND-ABOUT AT EARHART.
1033	814.118	CITY OF ANN ARBOR VERTICAL CONTROL STATION. BRASS DISC IN CENTER OF ROUNDABOUT



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GEDDES ROAD WATER MAIN

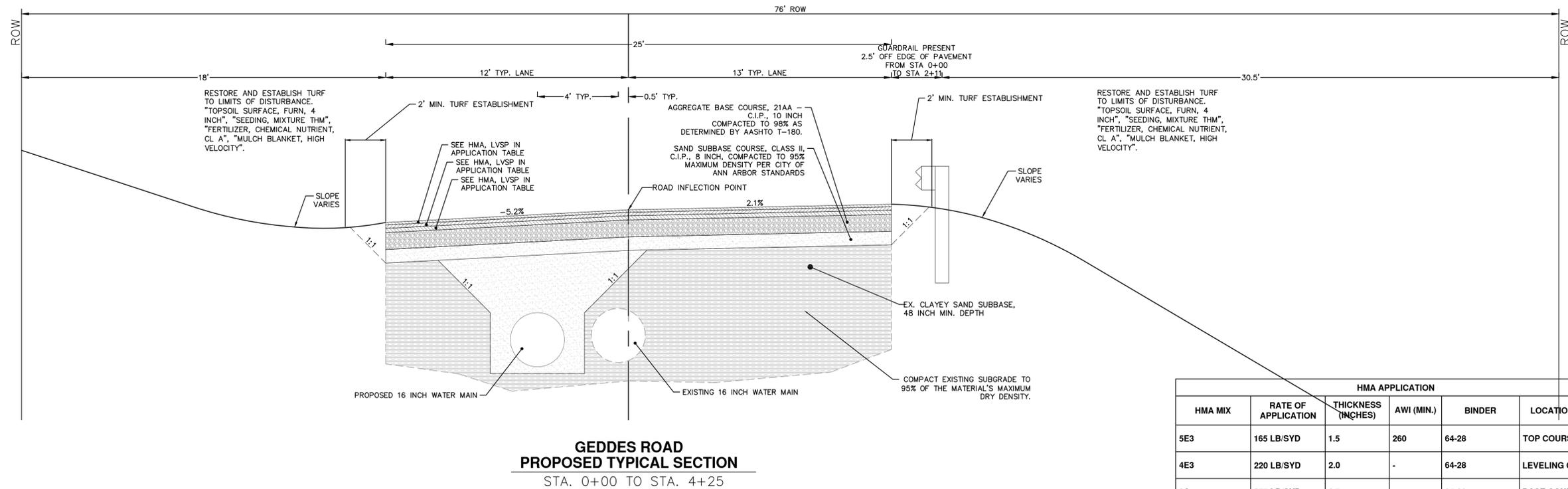
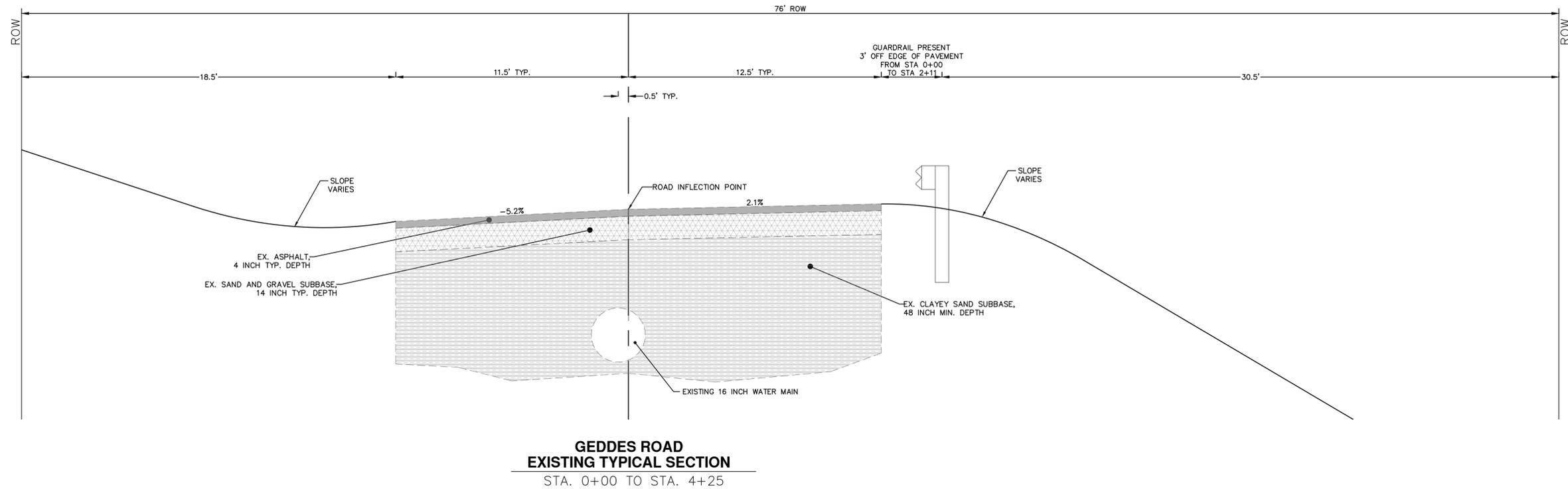
STANDARD NOTES

SCALE: NTS

DRAWING No. 2018040-2

SHEET No. 2 OF 42

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HMA APPLICATION					
HMA MIX	RATE OF APPLICATION	THICKNESS (INCHES)	AWI (MIN.)	BINDER	LOCATION/NOTES
5E3	165 LB/SYD	1.5	260	64-28	TOP COURSE
4E3	220 LB/SYD	2.0	-	64-28	LEVELING COURSE
3C	275 LB/SYD	2.5	-	64-28	BASE COURSE
4E1	275 LB/SYD	2.5	260	-	HMA APPROACH
4E1	275 LB/SYD	2.5	-	-	HAND PATCHING
BOND COAT SS-1h	0.05 - 0.15 GAL/SYD	-	-	-	INCLUDE IN COST OF HMA ITEM



REV.	DATE	DESCRIPTION	DRAWN	CHECKED
01	7-15-20	SPOT GRADES - CHANDLER INTERSECTION	CEC	JKA
01	6-17-20	BARTON CENTERLINE, RT & LT EDGE HMA	CEC	JKA
00	2-28-20	OUT FOR BID	PEC,DPF,KE	JKA

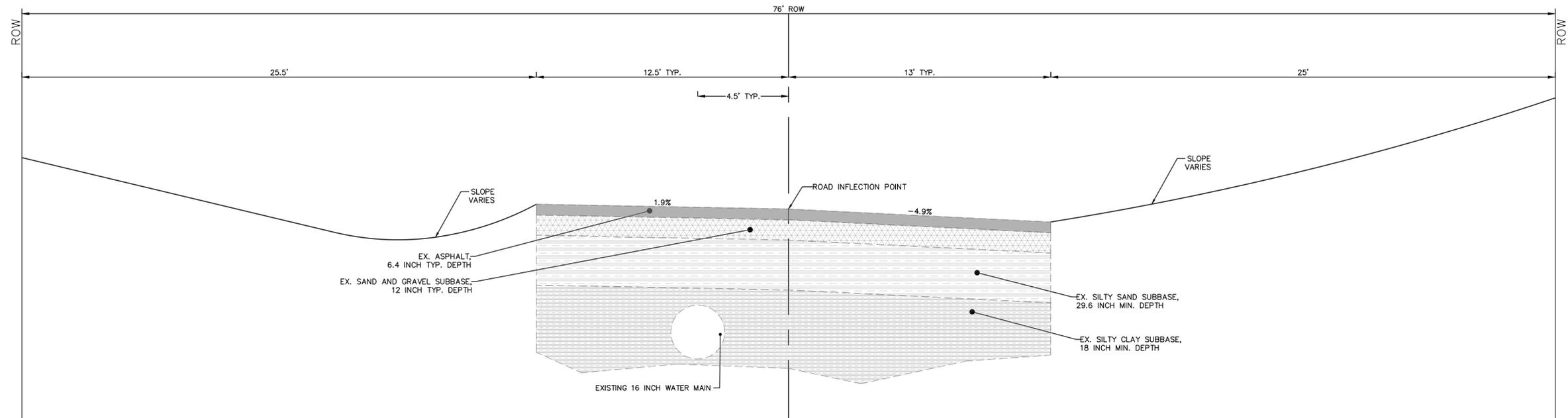
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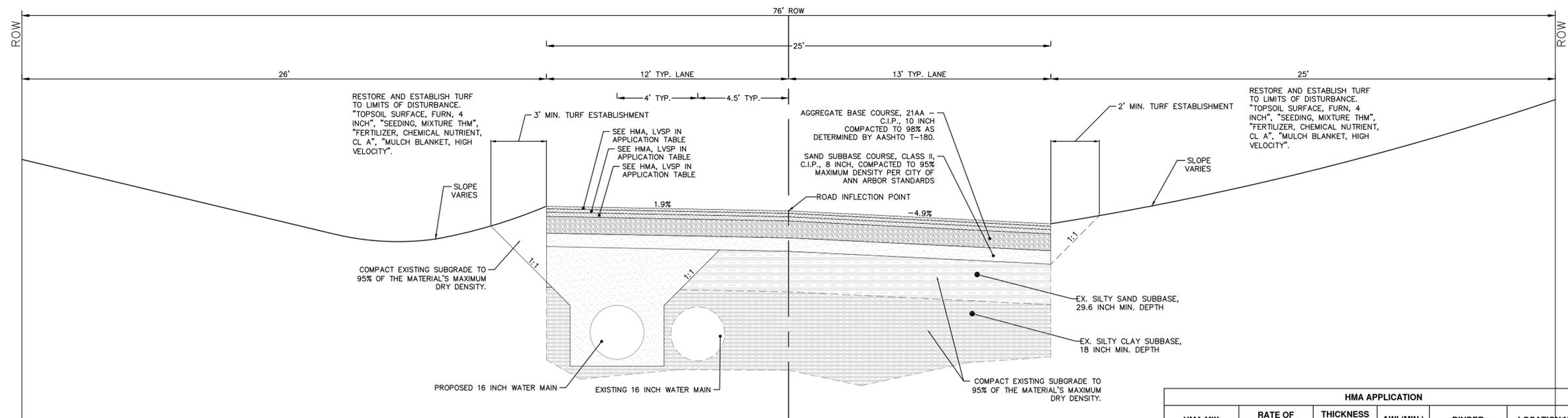
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GEDDES ROAD WATER MAIN
TYPICAL SECTIONS
EX. AND PROP. TYPICAL ROAD SECTIONS STA 0+00 TO STA 4+25

SCALE: NTS
DRAWING No. 2018040-5
SHEET No.

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**GEDDES ROAD
EXISTING TYPICAL SECTION**
STA. 4+25 TO STA. 9+23



**GEDDES ROAD
PROPOSED TYPICAL SECTION**
STA. 4+25 TO STA. 9+23

HMA APPLICATION					
HMA MIX	RATE OF APPLICATION	THICKNESS (INCHES)	AWI (MIN.)	BINDER	LOCATION/NOTES
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3C	275 LB/SYD	2.5	-	64-28	BASE COURSE
4E1	275 LB/SYD	2.5	260	-	HMA APPROACH
4E1	275 LB/SYD	2.5	-	-	HAND PATCHING
BOND COAT SS-1h	0.05 - 0.15 GAL/SYD	-	-	-	INCLUDE IN COST OF HMA ITEM



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00	2-28-20	OUT FOR BID	JKA

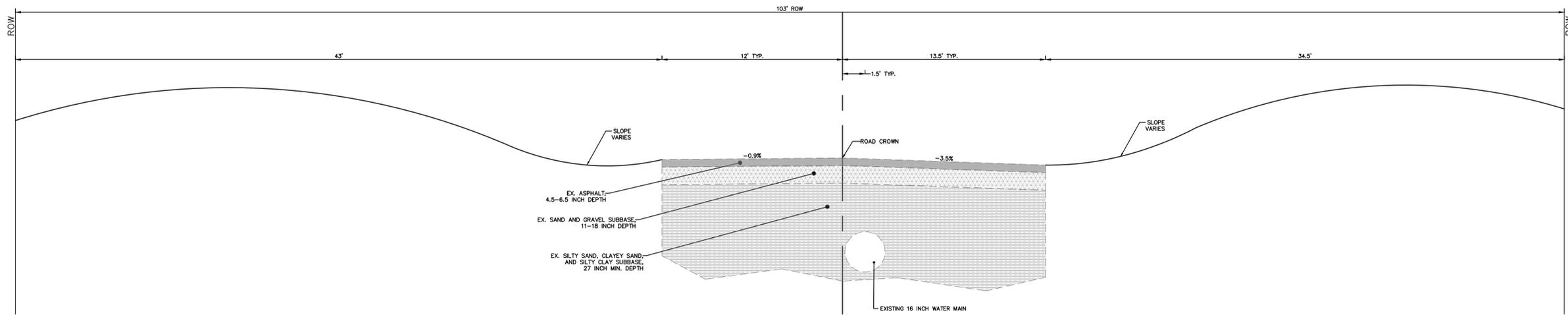
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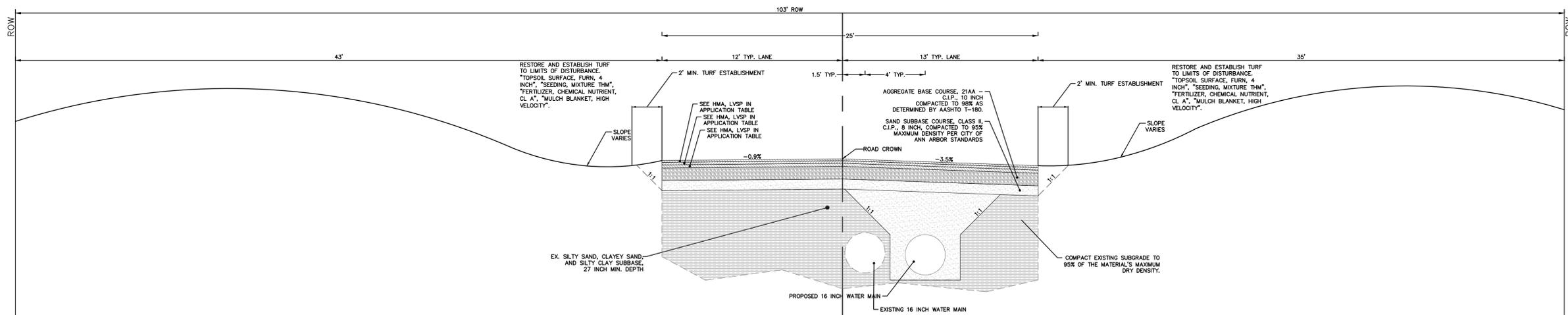
CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
GEDDES ROAD WATER MAIN
TYPICAL SECTIONS
EX. AND PROP. TYPICAL ROAD SECTIONS STA 4+25 TO STA 9+23

SCALE: NTS
DRAWING No. 2018040-6

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**GEDDES ROAD
EXISTING TYPICAL SECTION**
STA. 9+23 TO STA. 12+87



**GEDDES ROAD
PROPOSED TYPICAL SECTION**
STA. 9+23 TO STA. 12+87

HMA APPLICATION					
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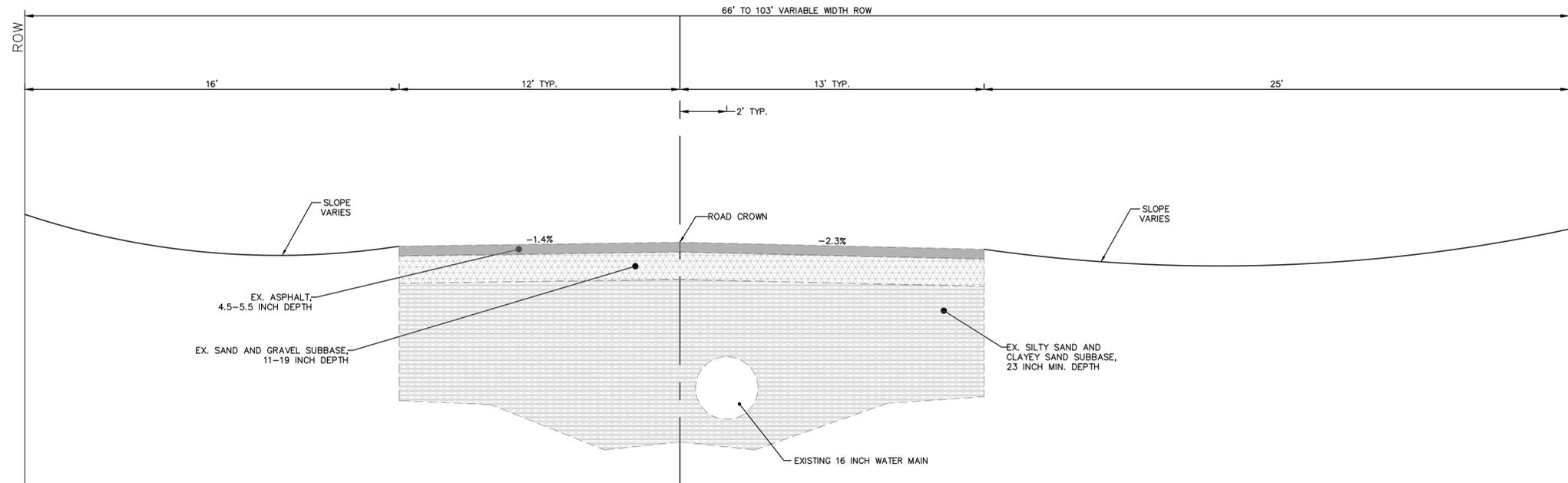


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GEDDES ROAD WATER MAIN

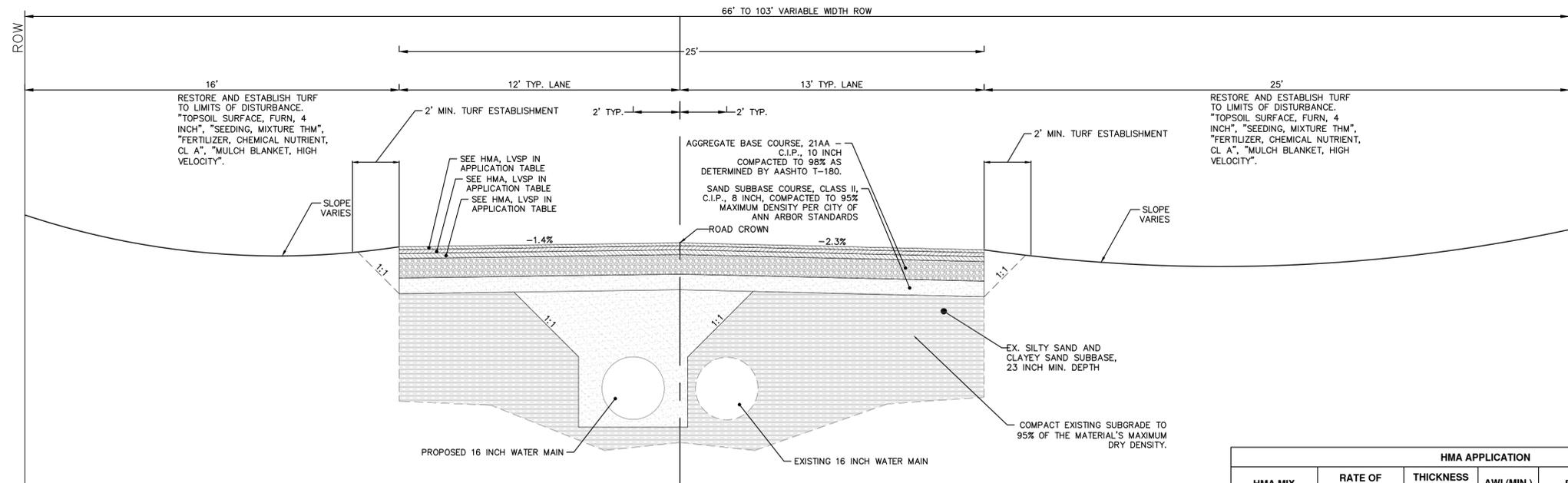
EX. AND PROP. TYPICAL ROAD SECTIONS STA 9+23 TO STA 12+87

SCALE: NTS
DRAWING No. 2018040-7

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**GEDES ROAD
EXISTING TYPICAL SECTION**
STA. 12+87 TO STA. 18+71



**GEDES ROAD
PROPOSED TYPICAL SECTION**
STA. 12+87 TO STA. 18+71

HMA APPLICATION					
HMA MIX	RATE OF APPLICATION	THICKNESS (INCHES)	AWI (MIN.)	BINDER	LOCATION/NOTES
5E3	165 LB/SYD	1.5	260	64-28	TOP COURSE
4E3	220 LB/SYD	2.0	-	64-28	LEVELING COURSE
3C	275 LB/SYD	2.5	-	64-28	BASE COURSE
4E1	275 LB/SYD	2.5	260	-	HMA APPROACH
4E1	275 LB/SYD	2.5	-	-	HAND PATCHING
BOND COAT SS-1h	0.05 - 0.15 GAL/SYD	-	-	-	INCLUDE IN COST OF HMA ITEM



Know what's below.
Call before you dig.

REV.	DATE	DESCRIPTION	DRAWN	CHECKED
01	7-15-20	SPOT GRADES - CHANDLER INTERSECTION	CEC	JKA
01	6-17-20	BARTON CENTERLINE, RT & LT EDGE HMA	CEC	JKA
00	2-28-20	OUT FOR BID	PEC,DPF,KE	JKA

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PUBLIC SERVICES
301 EAST HURON STREET
ANN ARBOR, MI 48106-6647
734.794.4410
www.a3gov.org

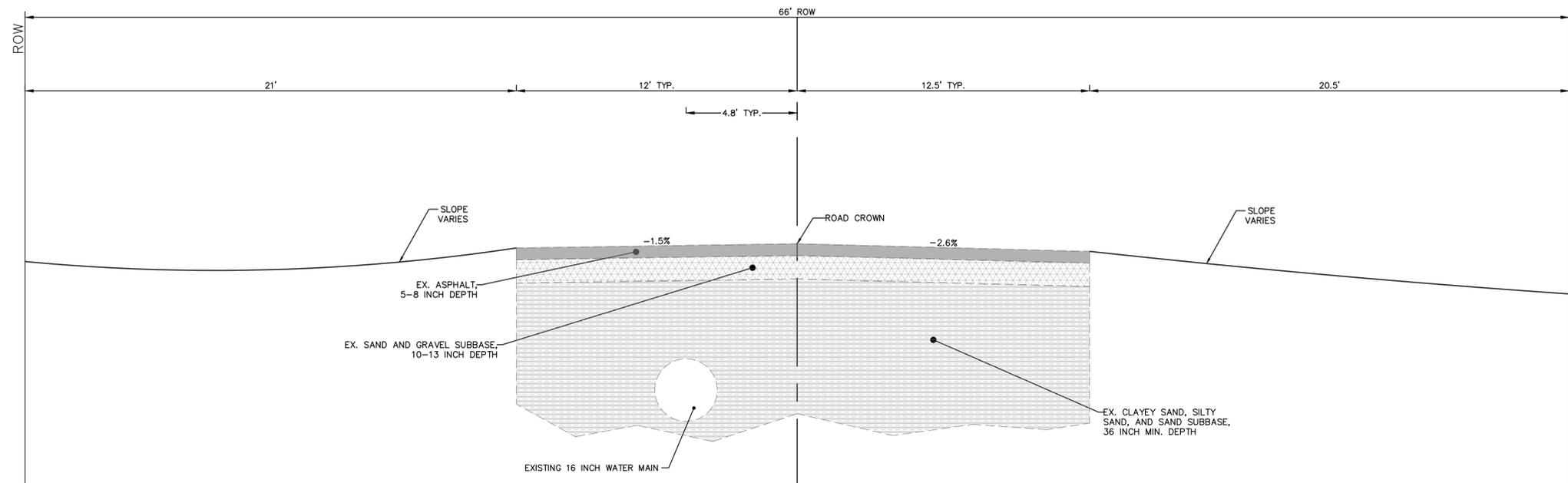


CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
GEDES ROAD WATER MAIN

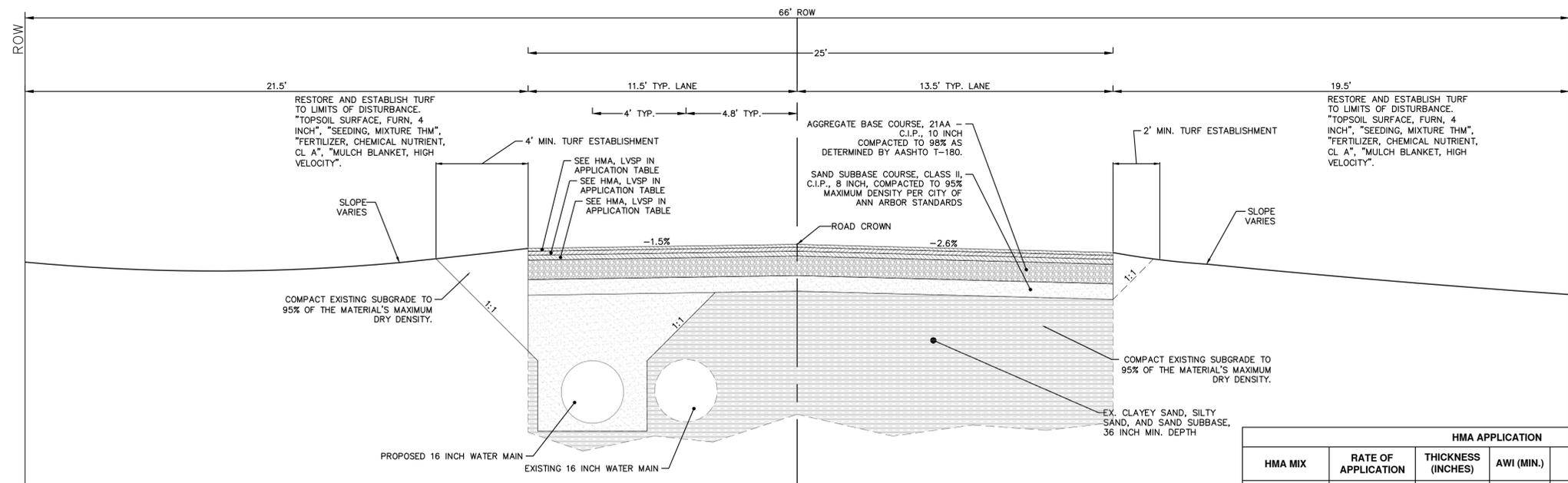
EX. AND PROP. TYPICAL ROAD SECTIONS STA 12+87 TO STA 18+71

SCALE: NTS
DRAWING No. 2018040-8

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**GEDDES ROAD
EXISTING TYPICAL SECTION**
STA. 18+71 TO STA. 26+63



**GEDDES ROAD
PROPOSED TYPICAL SECTION**
STA. 18+71 TO STA. 26+63

HMA APPLICATION					
HMA MIX	RATE OF APPLICATION	THICKNESS (INCHES)	AWI (MIN.)	BINDER	LOCATION/NOTES
5E3	165 LB/SYD	1.5	260	64-28	TOP COURSE
4E3	220 LB/SYD	2.0	-	64-28	LEVELING COURSE
3C	275 LB/SYD	2.5	-	64-28	BASE COURSE
4E1	275 LB/SYD	2.5	260	-	HMA APPROACH
4E1	275 LB/SYD	2.5	-	-	HAND PATCHING
BOND COAT SS-1h	0.05 - 0.15 GAL/SYD	-	-	-	INCLUDE IN COST OF HMA ITEM



REV.	DATE	DESCRIPTION	DRAWN	CHECKED
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01	6-17-20	BARTON CENTERLINE, RT & LT EDGE HMA	CEC	JKA
00	2-28-20	OUT FOR BID	DEC,DPF,KE	JKA

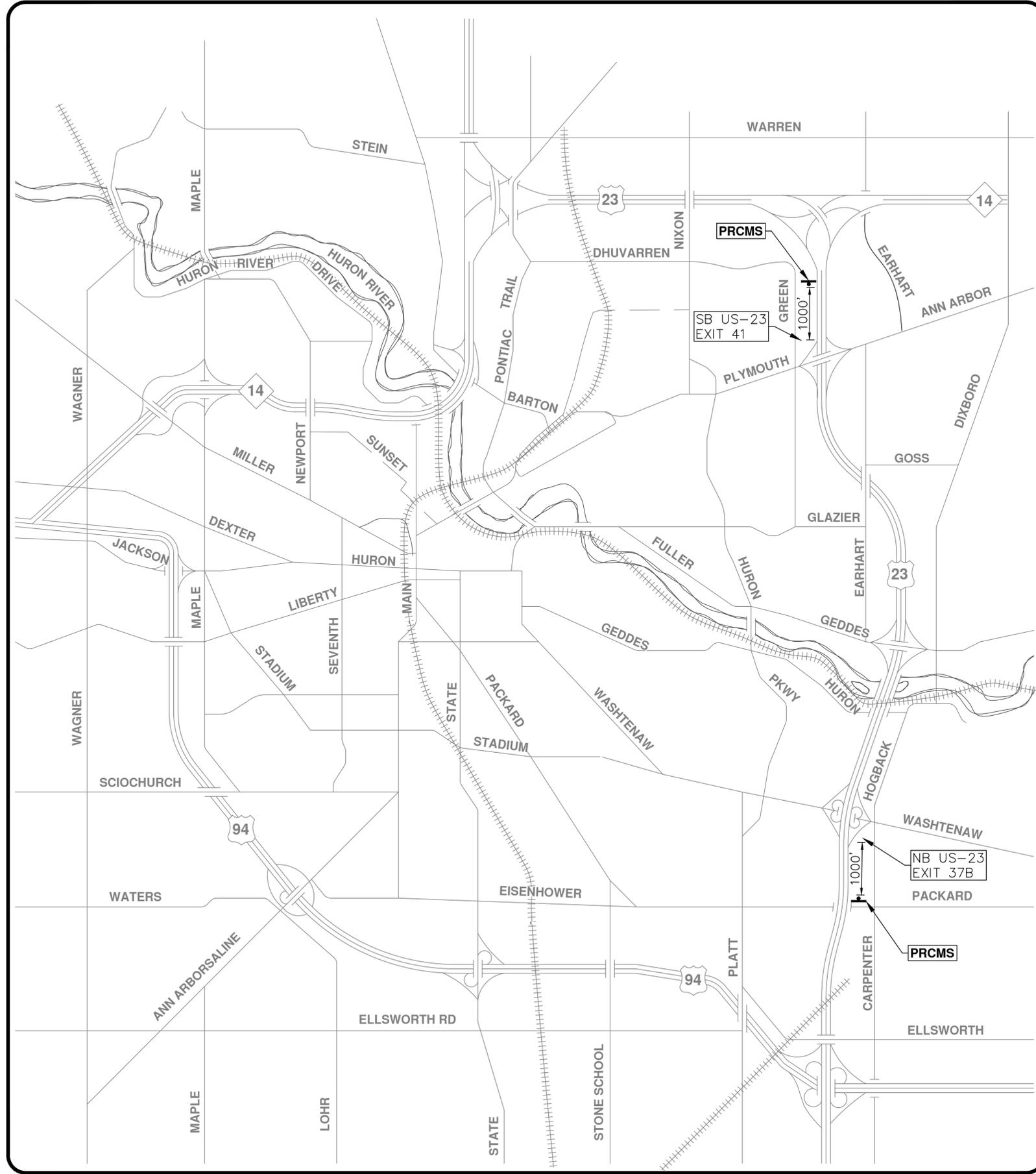
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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
GEDDES ROAD WATER MAIN

EX. AND PROP. TYPICAL ROAD SECTIONS STA 18+71 TO STA 26+63

SCALE: NTS
DRAWING No. 2018040-9



PRCMS MESSAGE PHASING	
PRIOR TO CONSTRUCTION	DURING CONSTRUCTION
WB GEDDES ROAD CLSD AT EARHART RD	WB GEDDES ROAD CLSD AT EARHART RD
MONTH DATE *	SEEK ALT ROUTE

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

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



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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
GEDDES ROAD WATER MAIN

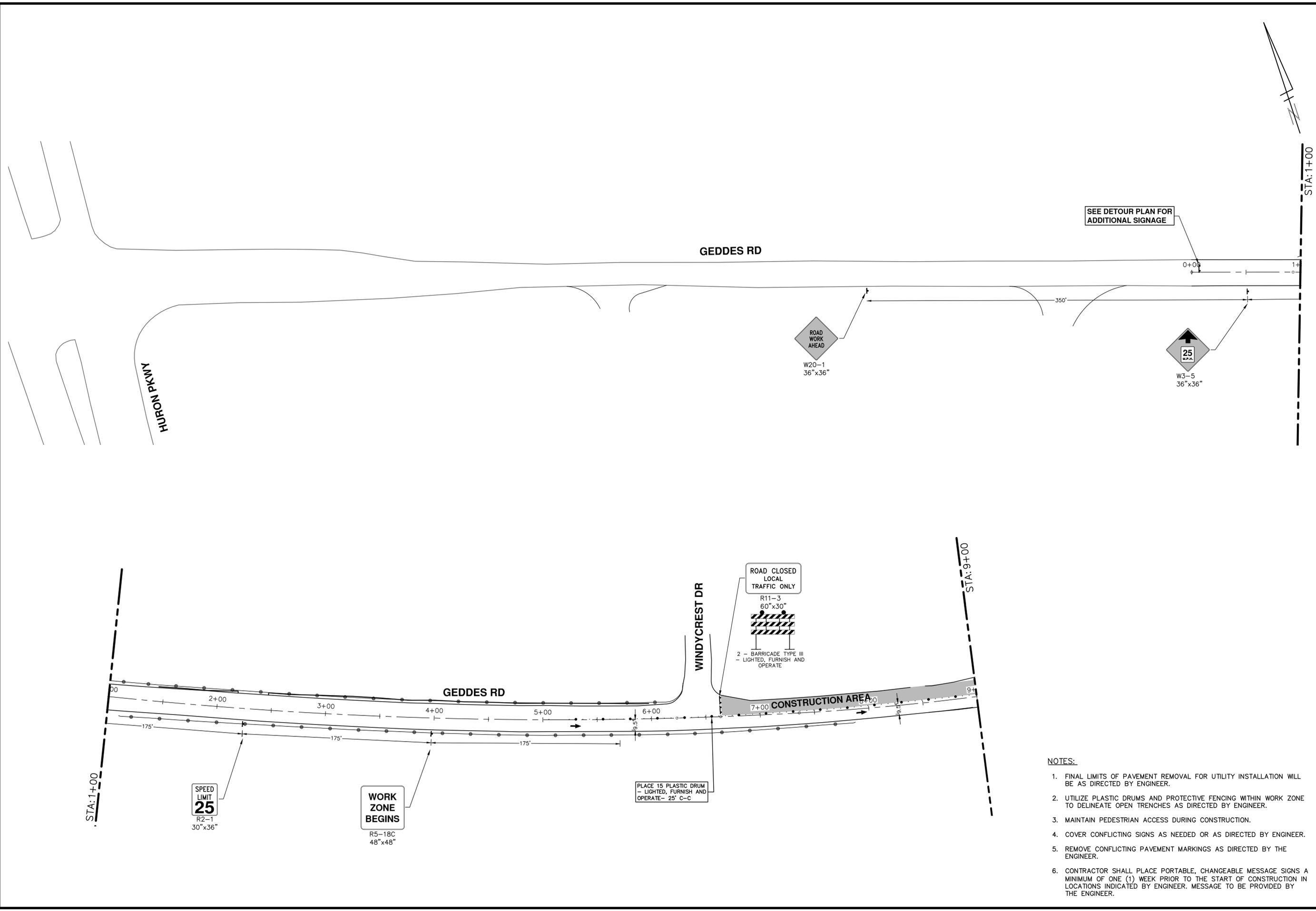
SCALE PLAN: NTS
DRAWING No. 2018040-10

SHEET No.

REV.	DESCRIPTION	DATE	BY	CHECKED

US-23 ADVANCE WARNING SIGNS

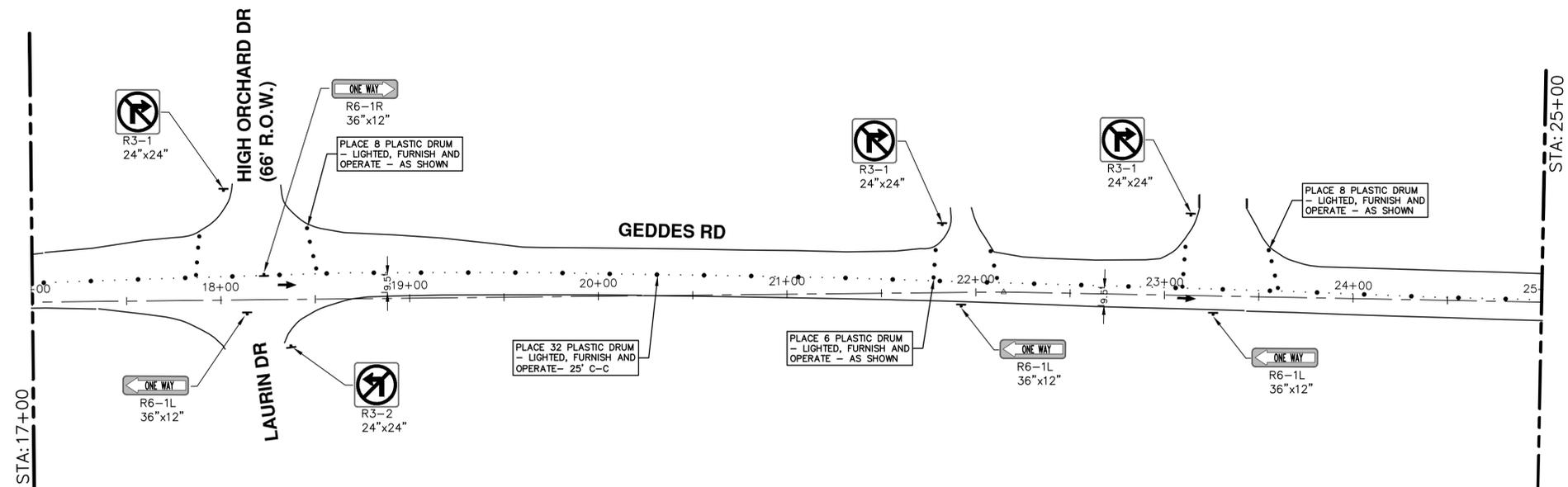
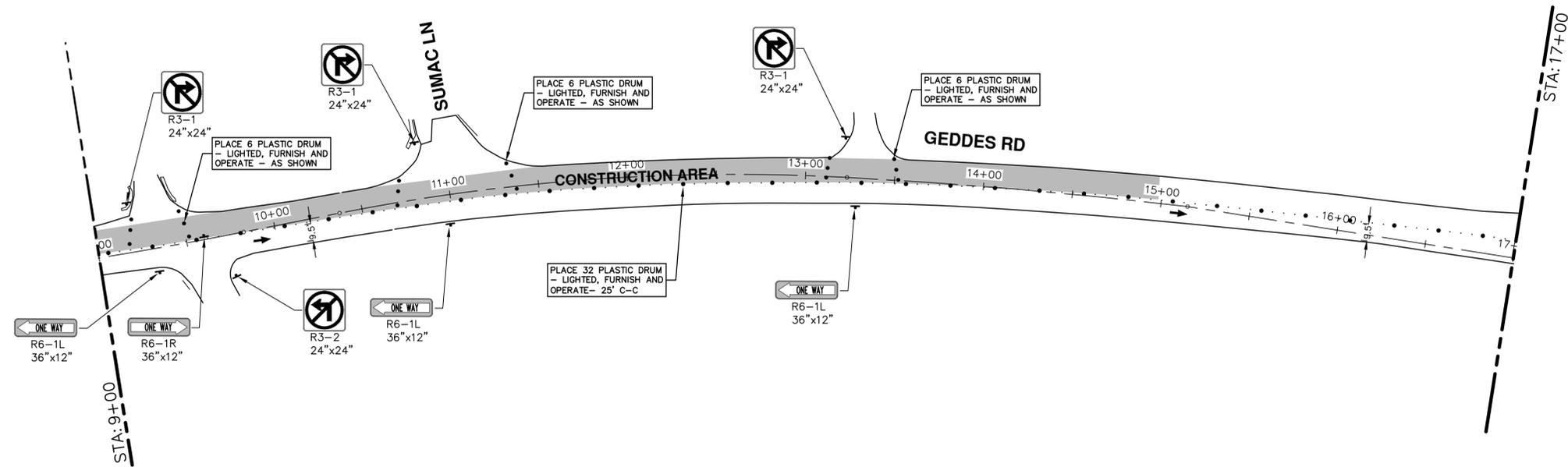
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- NOTES:**
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<p>Know what's below. Call Before you dig.</p>				
	CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING GEDDES ROAD WATER MAIN TRAFFIC CONTROL - WATER MAIN - PHASE I STAGE I	P.O.B. - STA. 9+00	DRAWING No. 2018040-12	SHEET No. 12 OF 42
CITY OF ANN ARBOR PUBLIC SERVICES 301 EAST HURON STREET ANN ARBOR, MI 48106-8647 ANN ARBOR, MI 48106-8647 www.a2gov.org	REV. NO. DESCRIPTION DATE BY CHECKED	REV. NO. DESCRIPTION DATE BY CHECKED		

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NOTES:

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NO	REV	DESCRIPTION	DATE	BY	CHECKED

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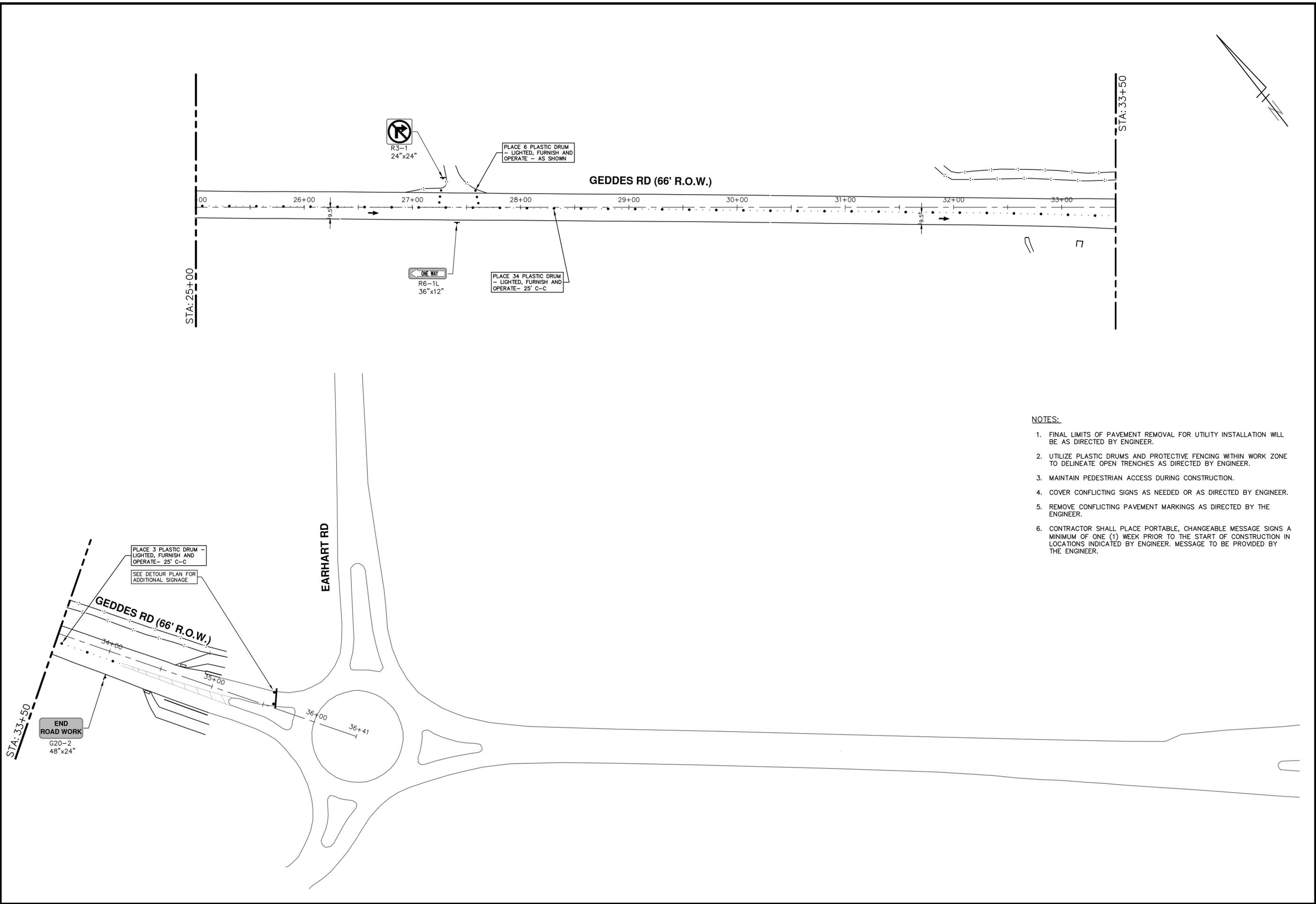


CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
GEDDES ROAD WATER MAIN
TRAFFIC CONTROL - WATER MAIN - PHASE I STAGE I
STA. 9+00 - STA. 25+00

SCALE: 1" = 40'
DRAWING No. 2018040-13

SHEET No.

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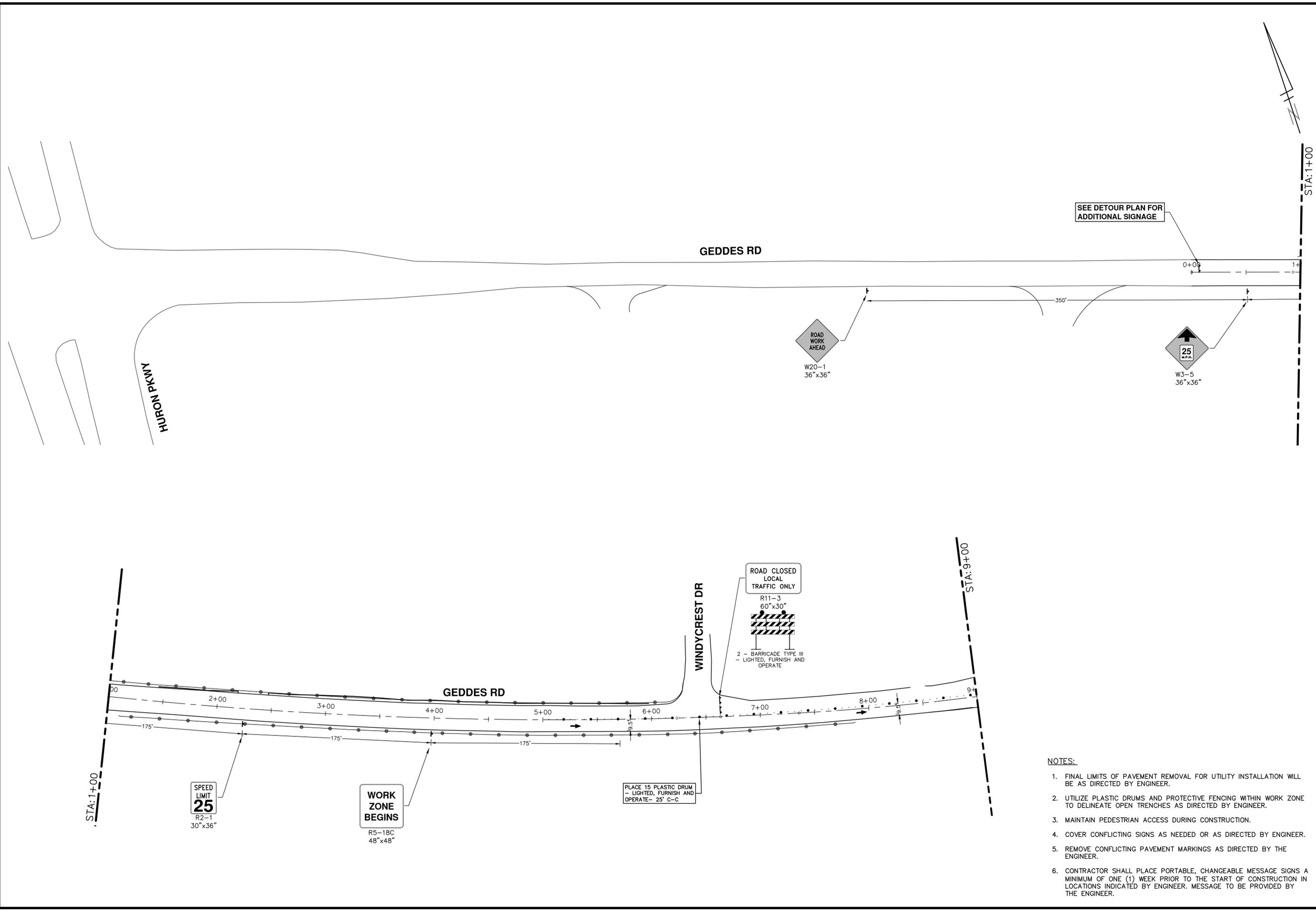


CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
GEDDES ROAD WATER MAIN
TRAFFIC CONTROL - WATER MAIN - PHASE I STAGE I
STA. 25+00 - P.O.E.

SCALE: 1" = 40'
DRAWING No. 2018040-14

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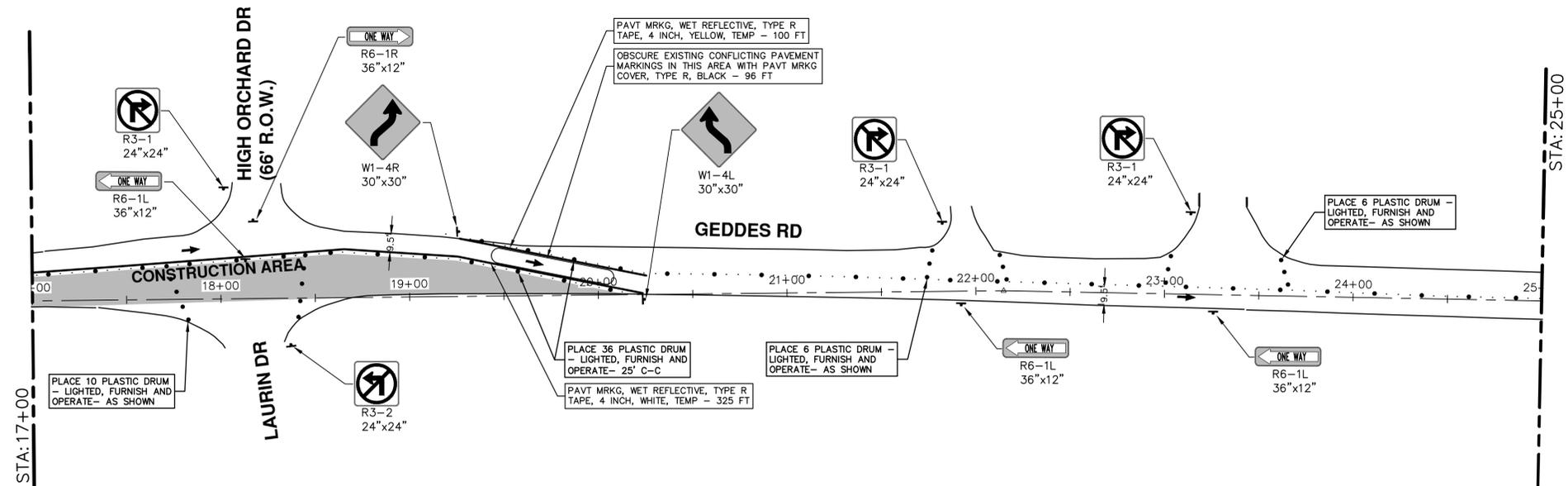
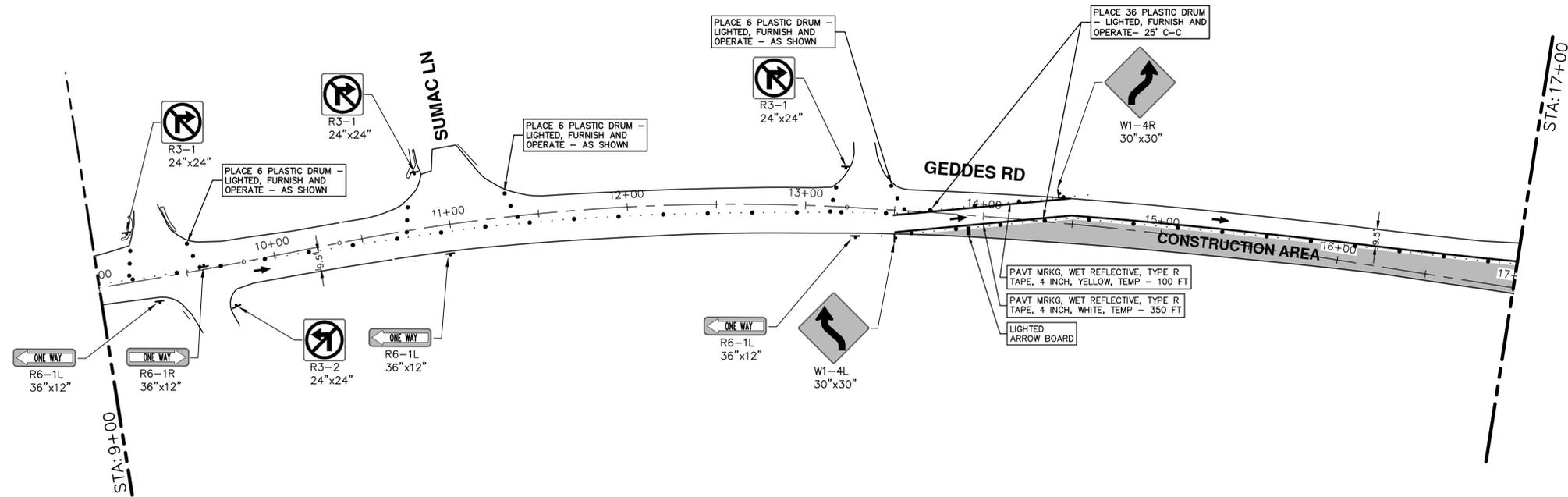


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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING	GEDDES ROAD WATER MAIN	COPY TO NEXT LINE AND EDIT THE TEXT			
REV.	DESCRIPTION	DATE	DATE	BY	CHECKED

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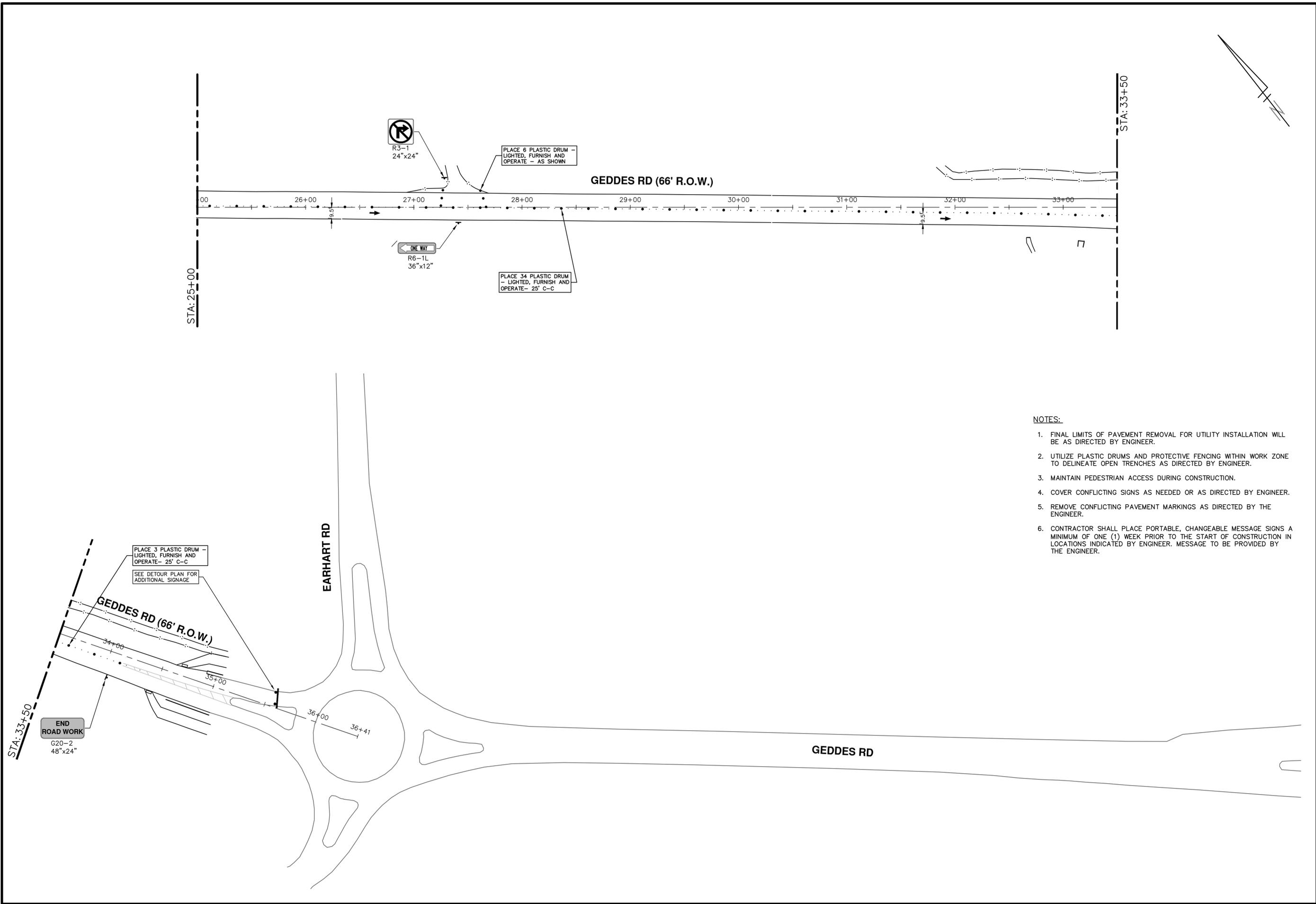


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	<p>CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING</p> <p>GEDDES ROAD WATER MAIN</p> <p>TRAFFIC CONTROL - WATER MAIN - PHASE I STAGE II</p>	<p>STA. 9+00 - STA. 25+00</p>															
<p>SCALE: 1" = 40'</p>	<p>DRAWING No.</p> <p>2018040-16</p>	<p>SHEET No.</p> <p>16 OF 42</p>															
<p>CITY OF ANN ARBOR PUBLIC SERVICES 301 EAST HURON STREET ANN ARBOR, MI 48106-8647 www.a2gov.org</p>																	
<p>811 Know what's below. Call Before you dig.</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>REV.</th> <th>DESCRIPTION</th> <th>DATE</th> <th>BY</th> <th>CHECKED</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	REV.	DESCRIPTION	DATE	BY	CHECKED											<p>COPY TO NEXT LINE AND EDIT THE TEXT</p>
REV.	DESCRIPTION	DATE	BY	CHECKED													

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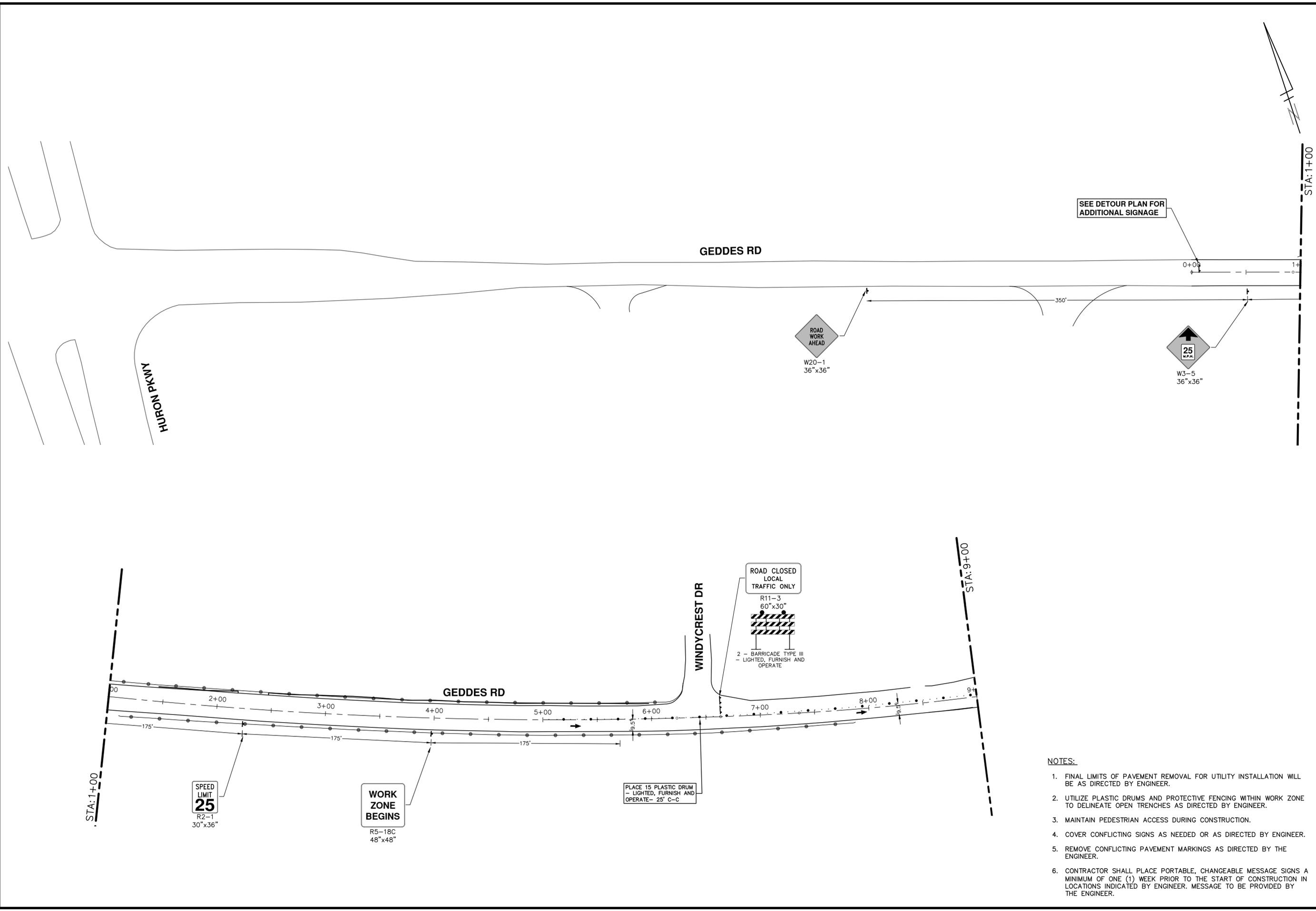


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<p>DESCRIPTION</p>	<p>BY: _____ BY: _____ BY: _____</p>
<p>REV.</p>	<p>CHECKED: _____ DRAWN: _____ DATE: _____</p>
<p>CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING GEDDES ROAD WATER MAIN TRAFFIC CONTROL - WATER MAIN - PHASE I STAGE II STA. 25+00 - P.O.E.</p>	
<p>SCALE: 1" = 40'</p>	<p>DRAWING No. 2018040-17</p>
<p>SHEET No. 17 OF 42</p>	

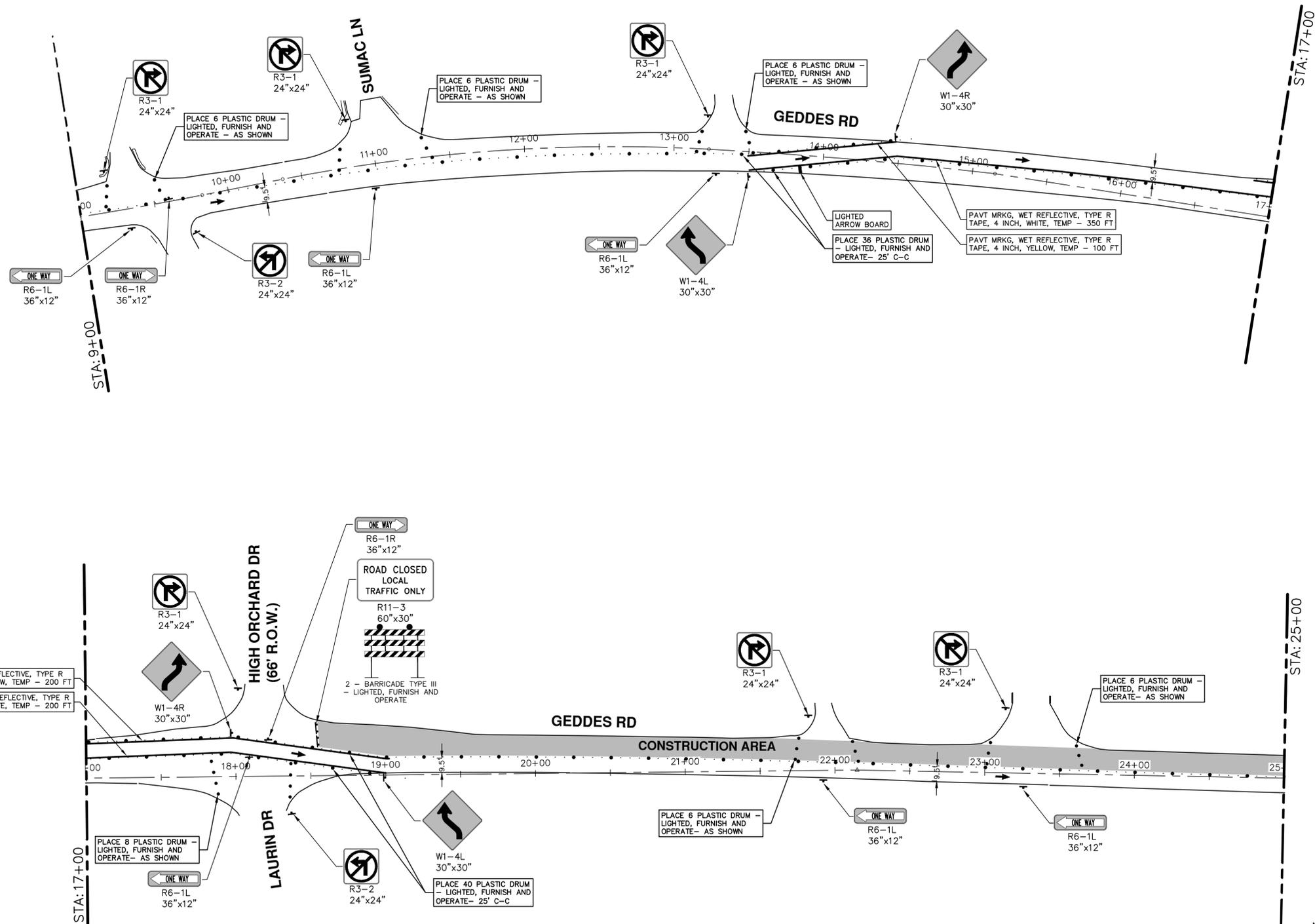
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<p>CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING GEDDES ROAD WATER MAIN TRAFFIC CONTROL - WATER MAIN - PHASE I STAGE III</p>				
<p>SCALE: 1" = 40' DRAWING No. 2018040-18 P.O.B. - STA. 9+00</p>				
<p>SHEET No. 18 OF 42</p>				

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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

GEDDES ROAD WATER MAIN

TRAFFIC CONTROL - WATER MAIN - PHASE I STAGE III

STA. 9+00 - STA. 25+00

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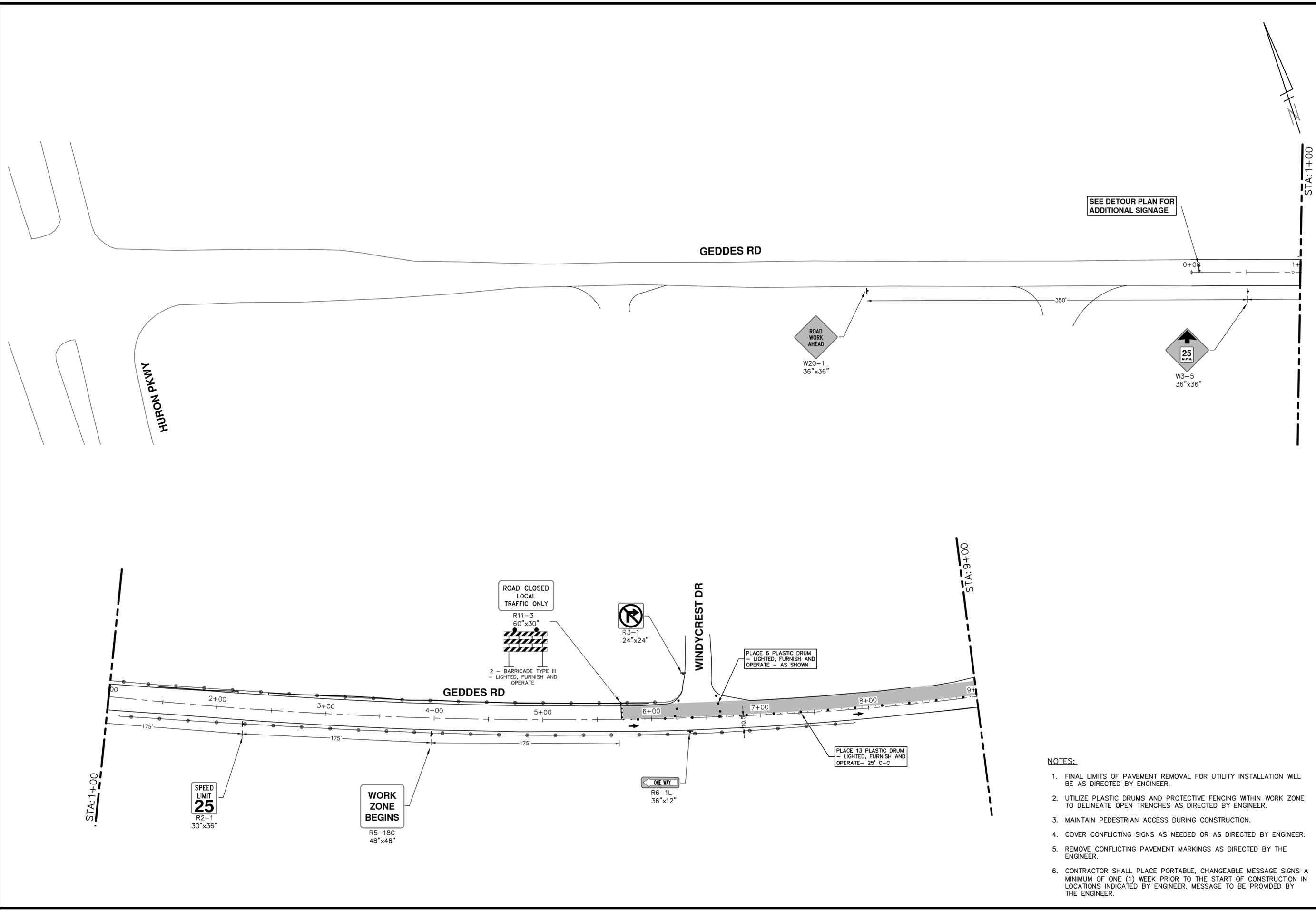
CITY OF ANN ARBOR MICHIGAN

SCALE: 1" = 40'

DRAWING No. 2018040-19

SHEET No. 19 OF 42

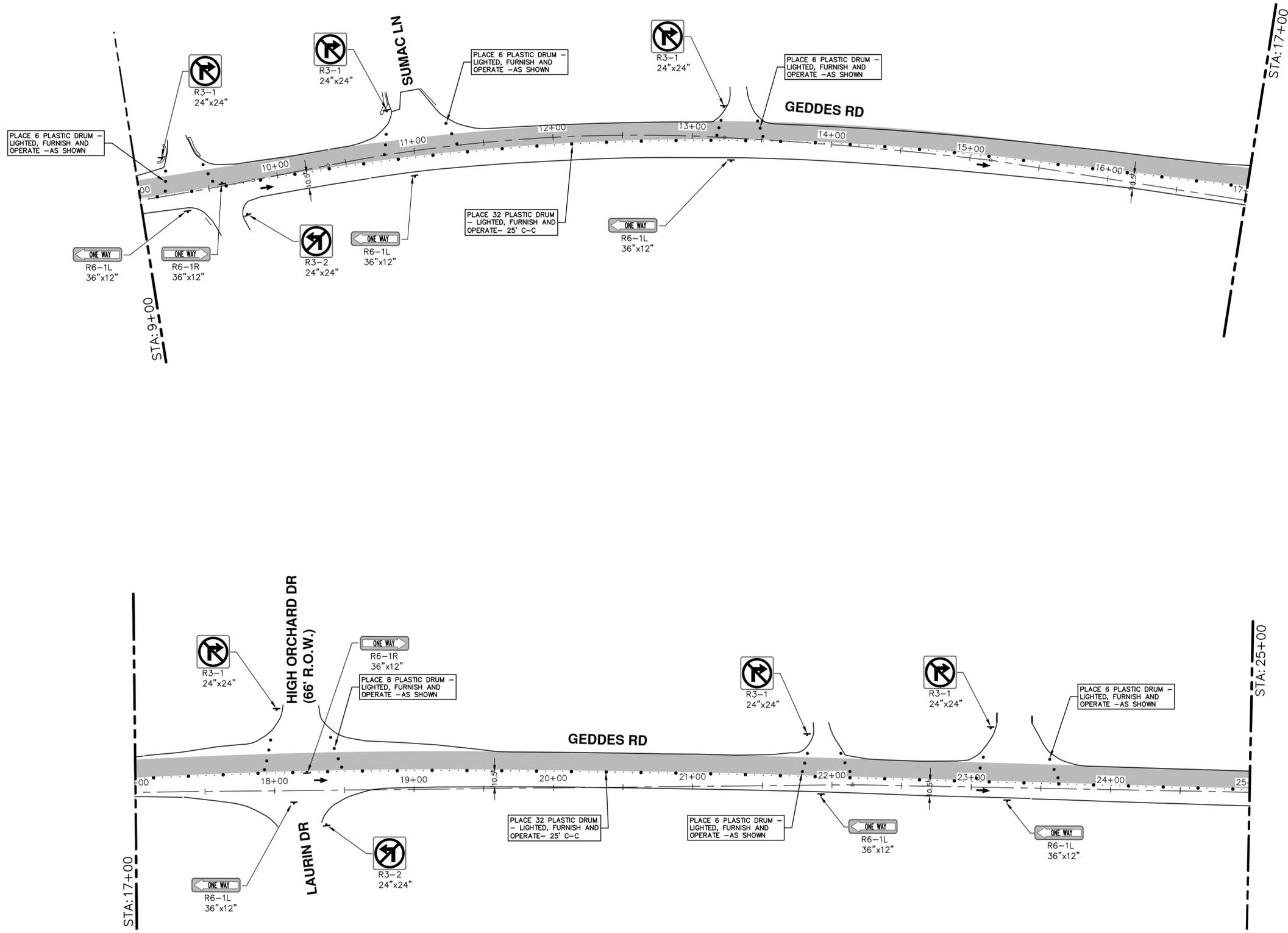
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<p>CITY OF ANN ARBOR PUBLIC SERVICES 301 EAST HURON STREET ANN ARBOR MI 48106-8647 www.a3gov.org</p>	<table border="1"> <thead> <tr> <th>REV.</th> <th>DESCRIPTION</th> <th>DATE</th> <th>BY</th> <th>CHECKED</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	REV.	DESCRIPTION	DATE	BY	CHECKED					
REV.	DESCRIPTION	DATE	BY	CHECKED							
<p>CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING GEDDES ROAD WATER MAIN TRAFFIC CONTROL - PAVING - PHASE II STAGE I P.O.B. - STA. 9+00</p>											
<p>SHEET No. 21 OF 42</p>	<p>DRAWING No. 2018040-21</p>										

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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

GEDDES ROAD WATER MAIN

TRAFFIC CONTROL - PAVING - PHASE II STAGE I

STA. 9+00 - STA. 25+00

SCALE: 1" = 40'

DRAWING No. 2018040-22

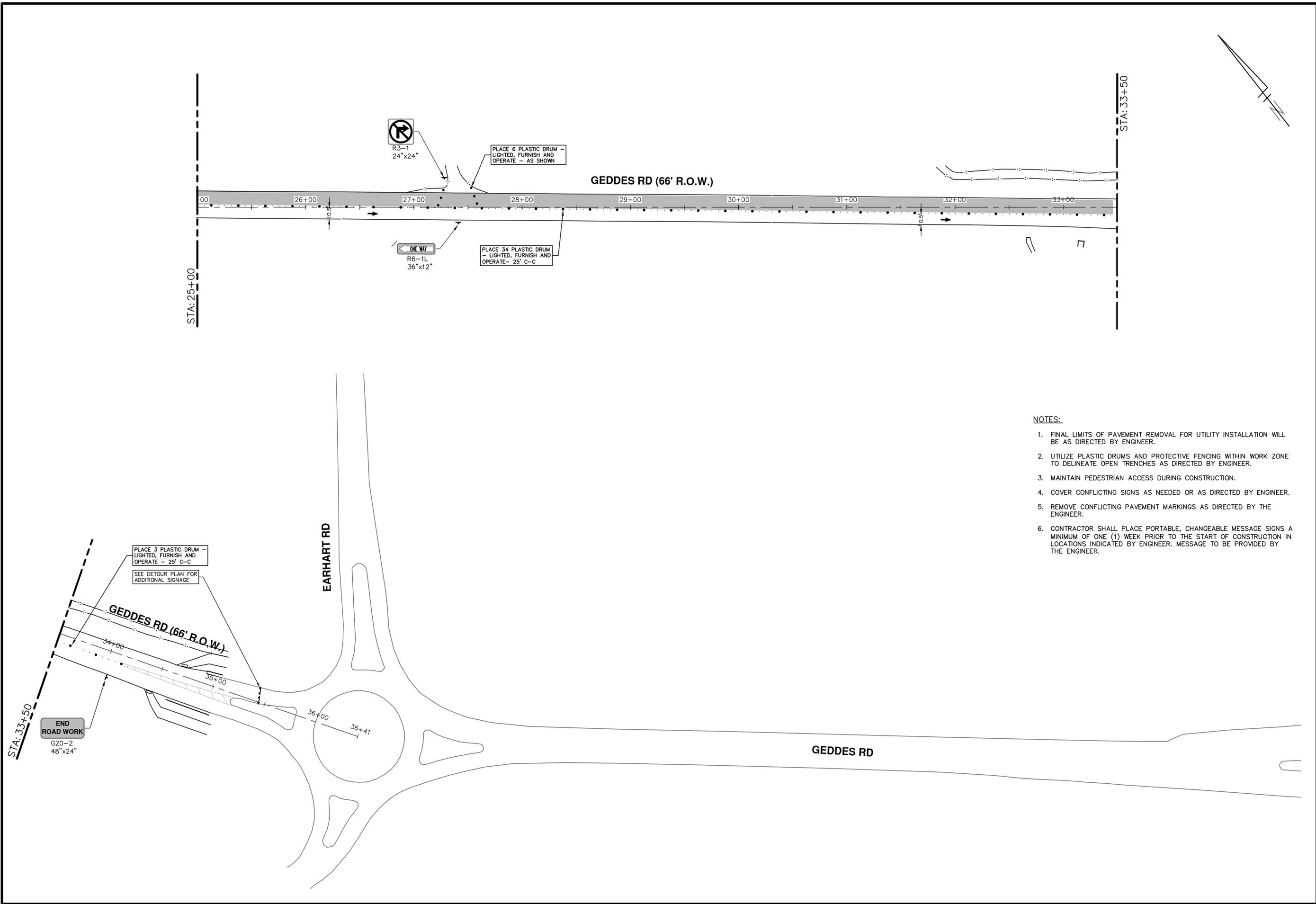
SHEET No. 22 OF 42

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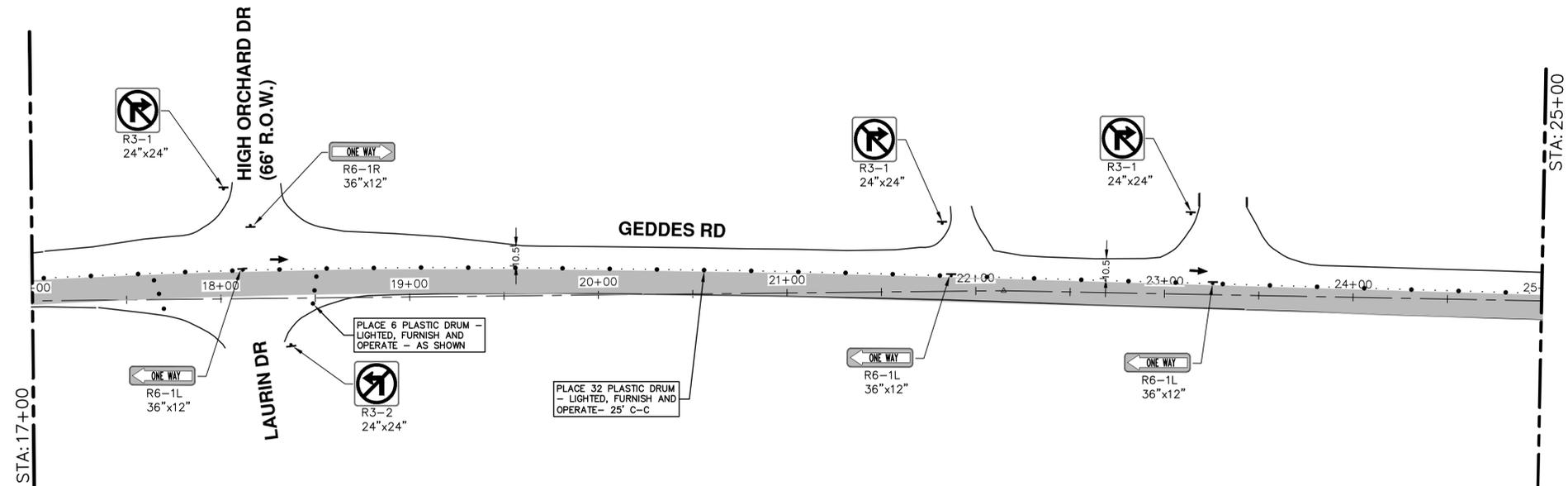
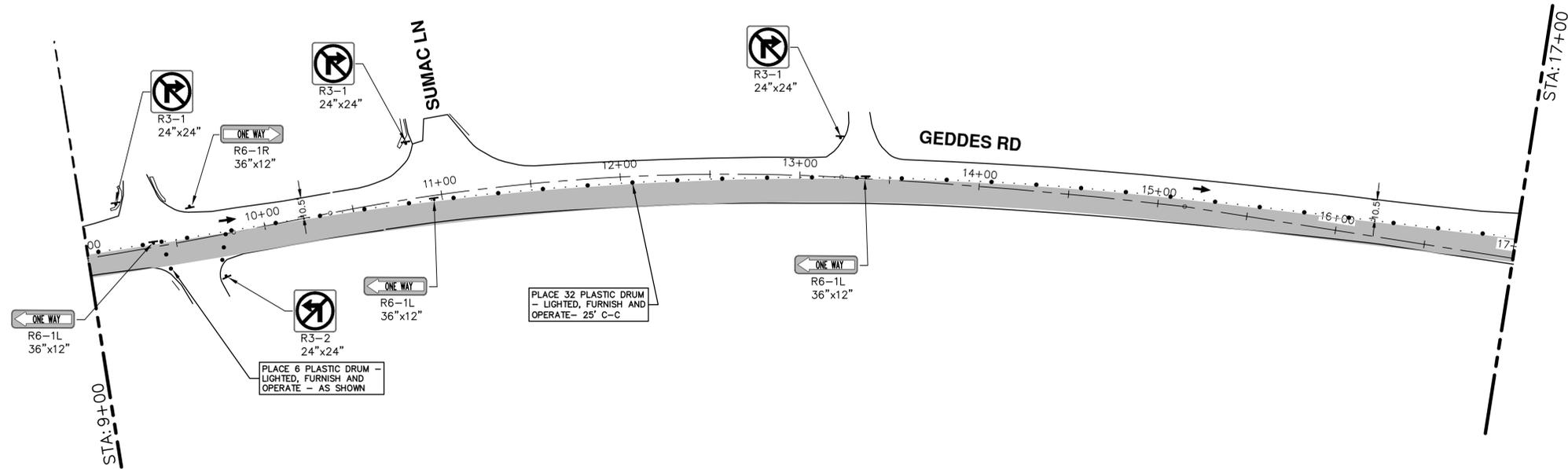
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GEDDES ROAD WATER MAIN
TRAFFIC CONTROL - PAVING - PHASE II STAGE I
STA. 25+00 - P.O.E.

SCALE: 1" = 40'
DRAWING No. 2018040-23

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4. COVER CONFLICTING SIGNS AS NEEDED OR AS DIRECTED BY ENGINEER.
5. REMOVE CONFLICTING PAVEMENT MARKINGS AS DIRECTED BY THE ENGINEER.
6. CONTRACTOR SHALL PLACE PORTABLE, CHANGEABLE MESSAGE SIGNS A MINIMUM OF ONE (1) WEEK PRIOR TO THE START OF CONSTRUCTION IN LOCATIONS INDICATED BY ENGINEER. MESSAGE TO BE PROVIDED BY THE ENGINEER.

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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
GEDDES ROAD WATER MAIN
TRAFFIC CONTROL - PAVING - PHASE II STAGE II
9+00 - STA. 25+00

SCALE: 1" = 40'
DRAWING No. 2018040-25

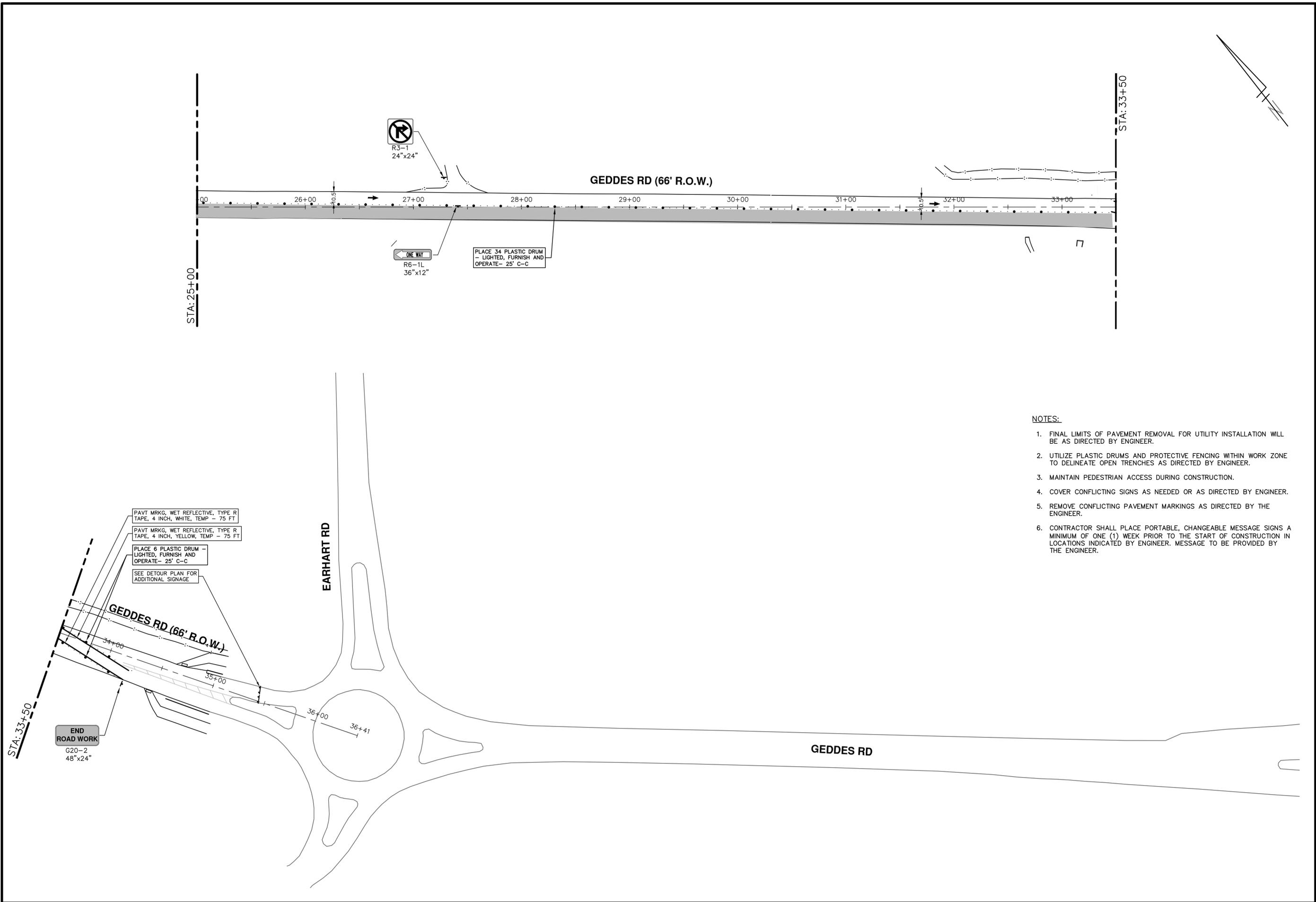
SHEET No.

25 OF 42



NO	DESCRIPTION	DATE	BY	CHECKED

R:\2018040 Geddes Rd WM\Plan Production\2018040Mtrf1.dwg Dwg Created: 3--Feb-21 --_a2 standard bw.stb -- Plot Date: 23--Feb-21



NOTES:

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



REV.	DESCRIPTION	DATE	BY	CHECKED

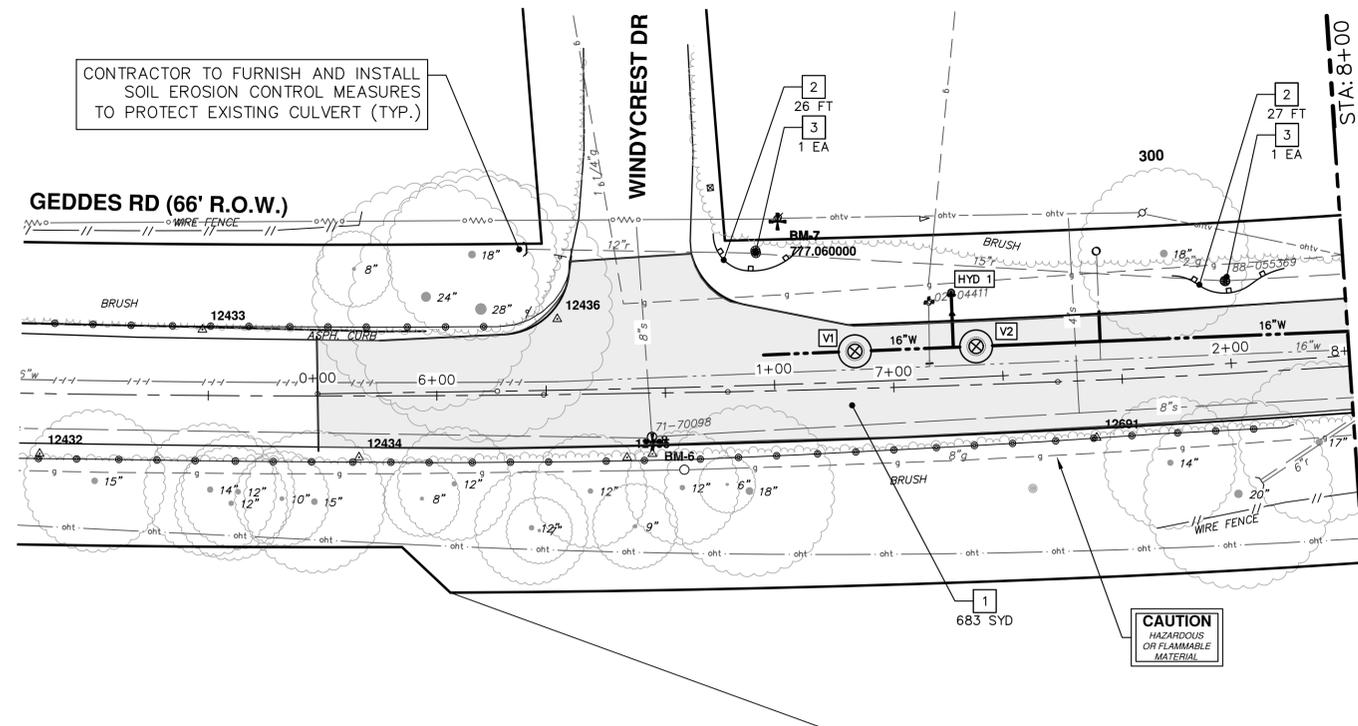
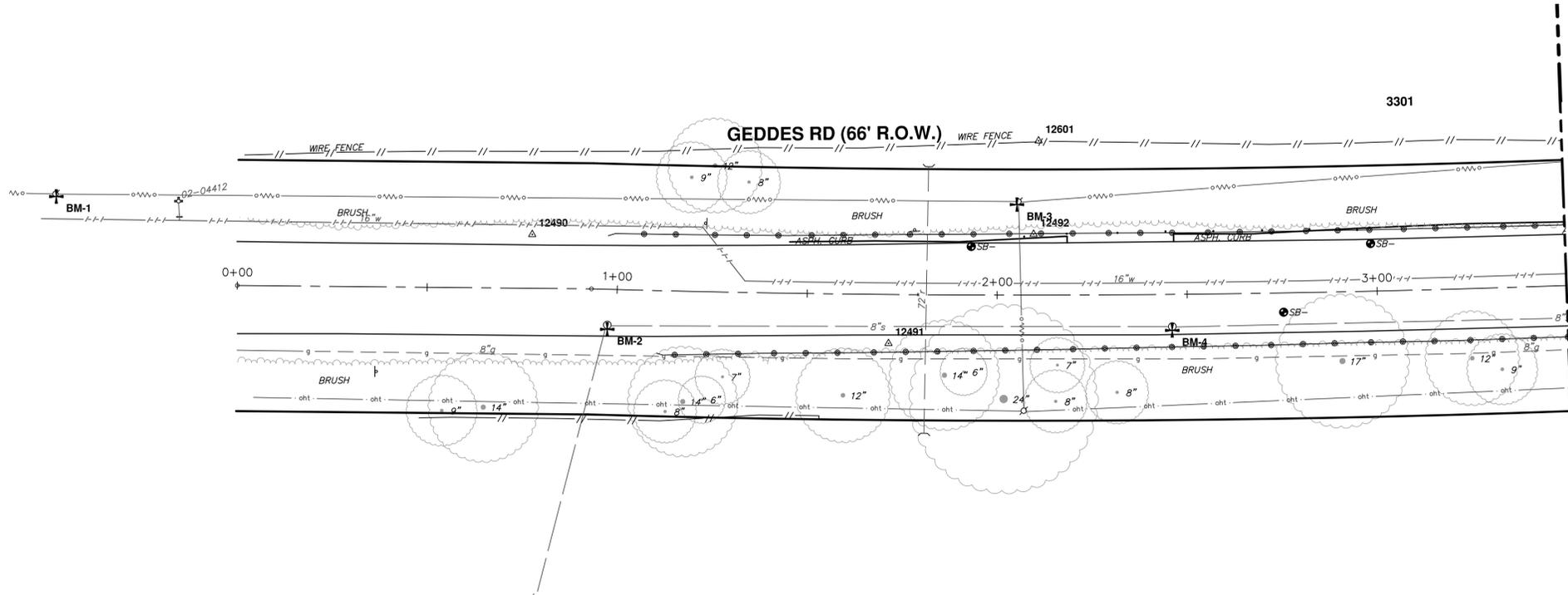
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 ANN ARBOR, MI 48106-8647
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CITY OF ANN ARBOR - ENGINEERING
 GEDDES ROAD WATER MAIN
 TRAFFIC CONTROL - PAVING - PHASE II STAGE II
 STA. 25+00 - P.O.E.

SCALE: 1" = 40'
 DRAWING No. 2018040-26

R:\2018040 Geddes Rd WM\Plan Production\2018040Rem.dwg Dwg Created: 19-Feb-21 - _a2 standard bw.stb - Plot Date: 23-Feb-21



REMOVAL KEY	
KEY	DESCRIPTION
1	PAVT. REM *
2	SILT FENCE
3	INLET FILTER
4	PROTECTIVE FENCING
5	TREE REMOVAL, 8" AND LARGER
6	DR STRUCTURE, REM

*SAWCUT FULL DEPTH AT REMOVAL LIMITS

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

DATE: _____ BY: _____ CHECKED: _____
 DATE: _____ BY: _____ DRAWN: _____

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
REMOVALS
GEDDES ROAD WATER MAIN

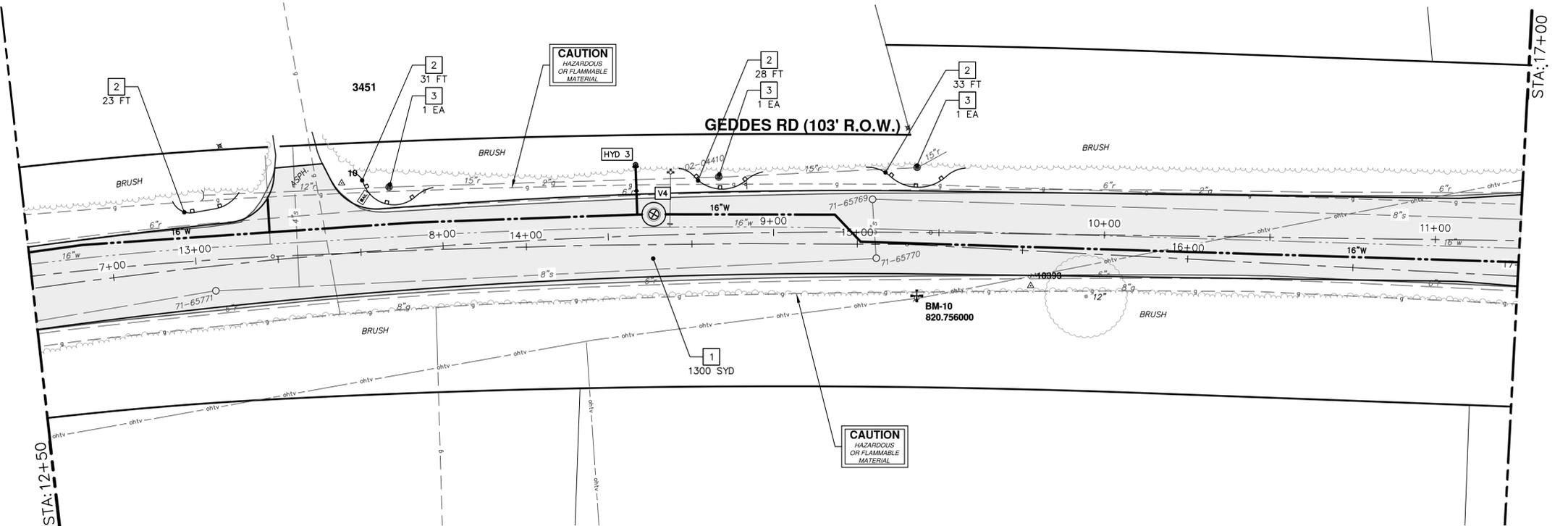
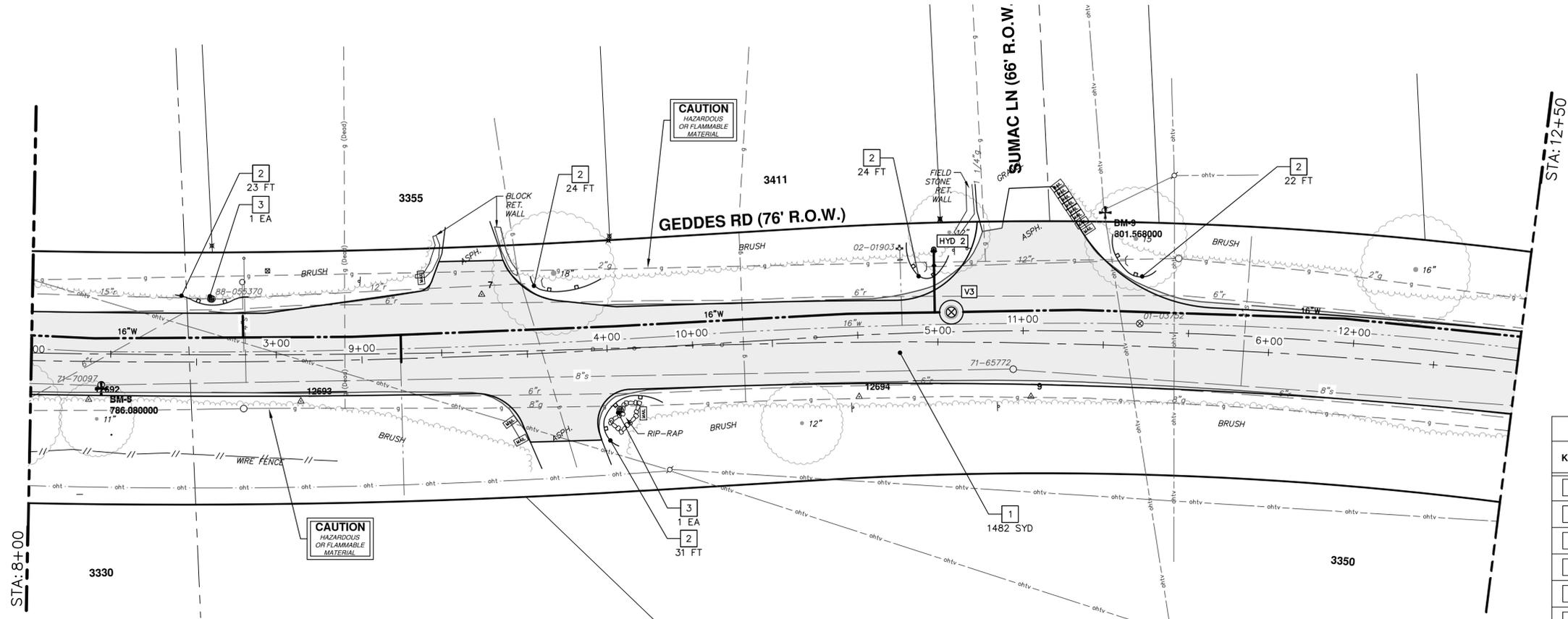
STA. 0+00 - STA. 8+00

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SCALE: 1" = 20'
 DRAWING No. 2018040-27

SHEET No. 27 OF 42

R:\2018040 Geddes Rd WM\Plan Production\2018040Rem.dwg Dwg Created: 19-Feb-21 - _a2 standard bw.stb - Plot Date: 23-Feb-21



REMOVAL KEY	
KEY	DESCRIPTION
1	PAVT, REM *
2	SILT FENCE
3	INLET FILTER
4	PROTECTIVE FENCING
5	TREE REMOVAL, 8" AND LARGER
6	DR STRUCTURE, REM

*SAWCUT FULL DEPTH AT REMOVAL LIMITS

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

REMOVALS

GEDDES ROAD WATER MAIN

SCALE: 1" = 20'

DRAWING No. 2018040-28

SHEET No. 28 OF 42

STA. 8+00 - STA. 17+00

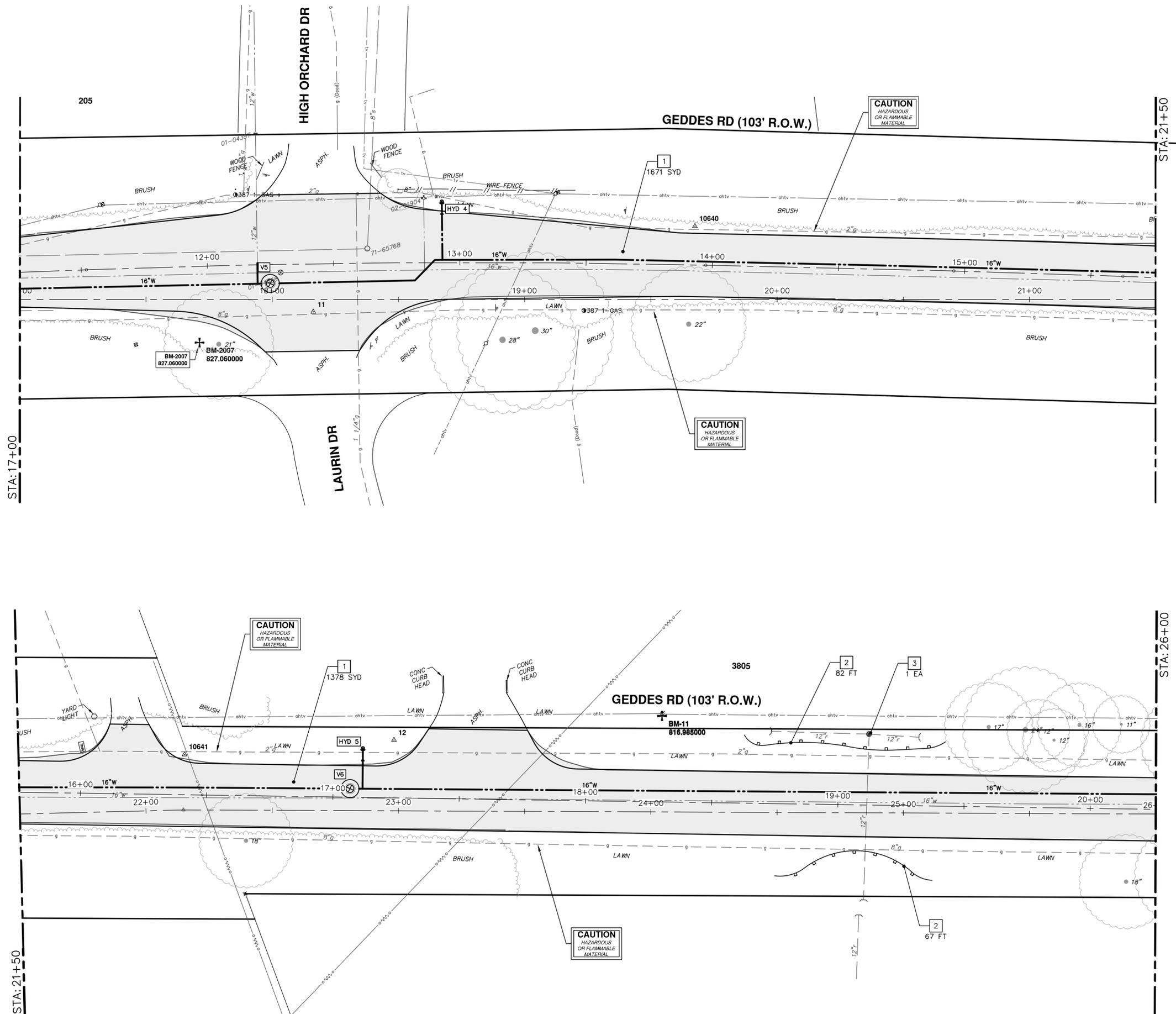
ANN ARBOR MICHIGAN

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PUBLIC SERVICES
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REMOVAL KEY	
KEY	DESCRIPTION
1	PAVT, REM *
2	SILT FENCE
3	INLET FILTER
4	PROTECTIVE FENCING
5	TREE REMOVAL, 8" AND LARGER
6	DR STRUCTURE, REM

*SAWCUT FULL DEPTH AT REMOVAL LIMITS

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

REMOVALS

GEDDES ROAD WATER MAIN

SCALE: 1" = 20'

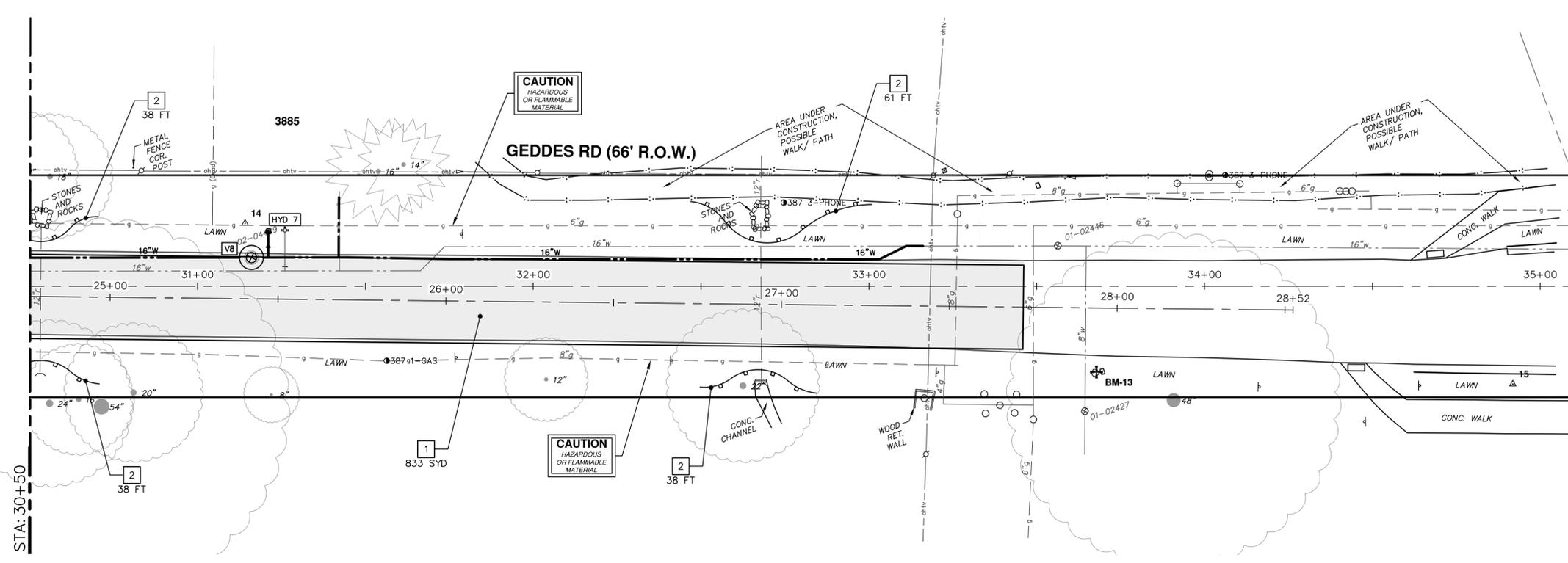
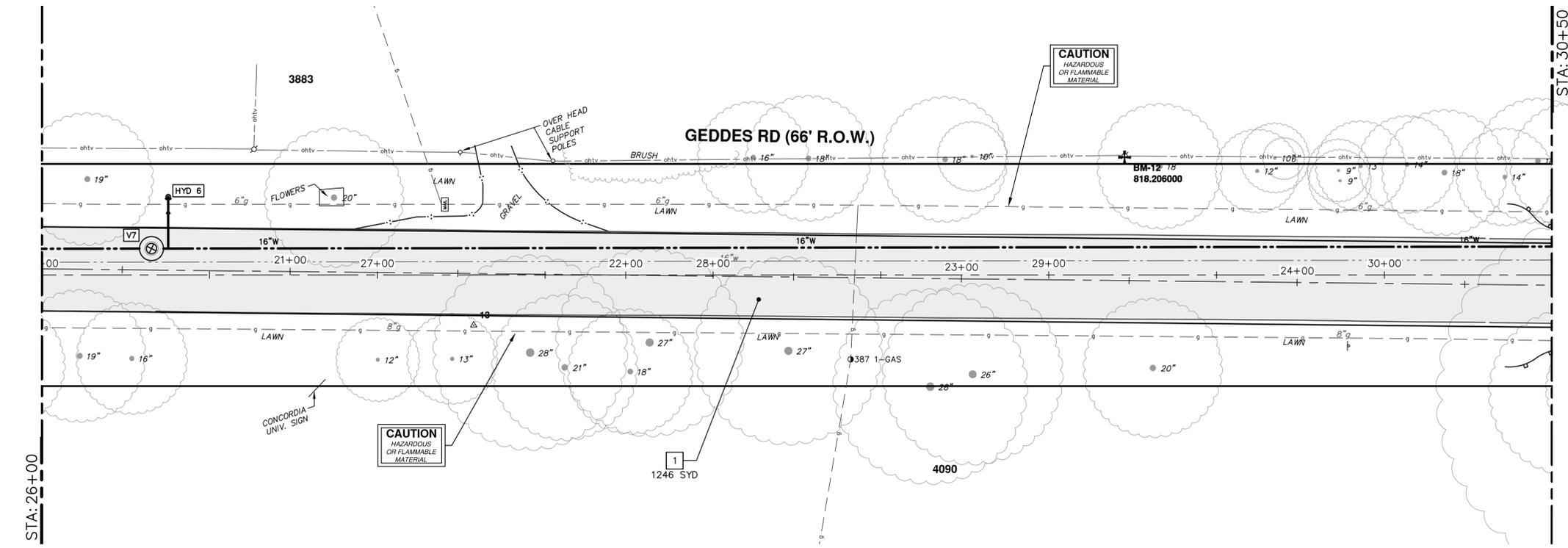
DRAWING No. 2018040-29

SHEET No. 29 OF 42

STA. 17+00 - STA. 26+00

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REV.	DESCRIPTION	DATE	BY	CHECKED
00	COPY TO NEXT LINE AND EDIT THE TEXT			



REMOVAL KEY	
KEY	DESCRIPTION
1	PAVT, REM *
2	SILT FENCE
3	INLET FILTER
4	PROTECTIVE FENCING
5	TREE REMOVAL, 8" AND LARGER
6	DR STRUCTURE, REM

*SAWCUT FULL DEPTH AT REMOVAL LIMITS

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Know what's below.
Call Before you dig.

Know what's below.
Call Before you dig.

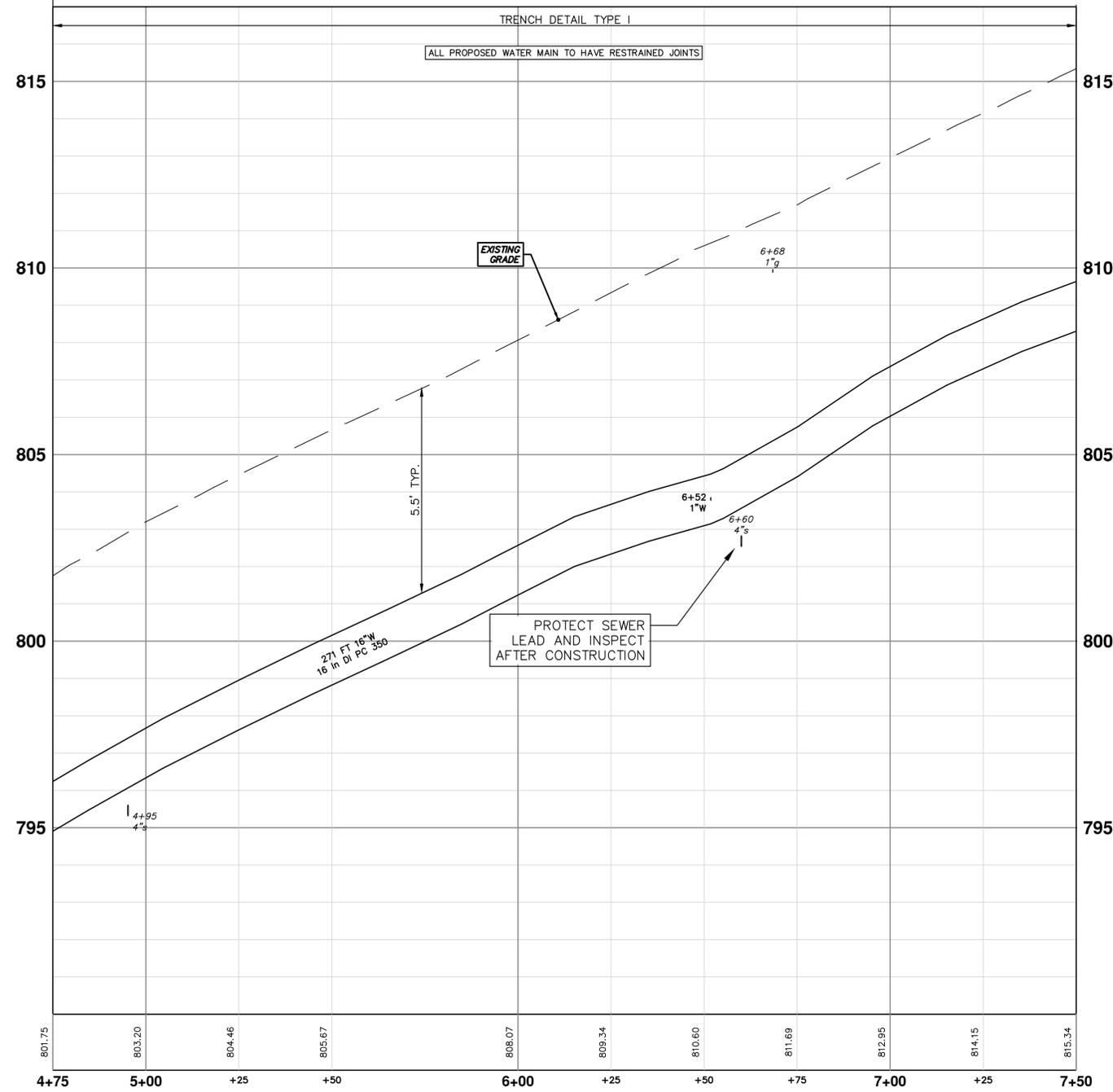
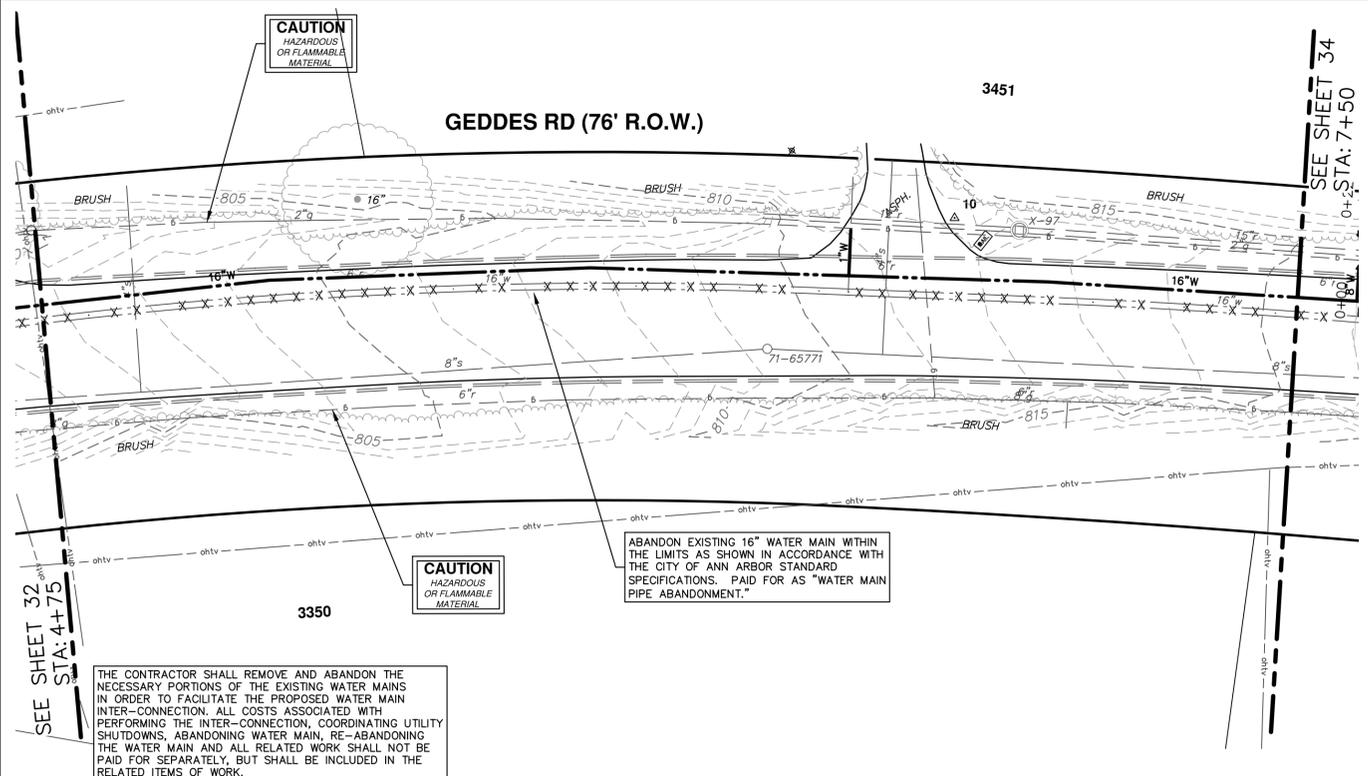
NO	DESCRIPTION	DATE	BY	CHECKED
00	COPY TO NEXT LINE AND EDIT THE TEXT			
REV				

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
REMOVALS
GEDES ROAD WATER MAIN

SCALE: 1" = 20'
DRAWING No. 2018040-30

30 OF 42

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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

GEDDES ROAD WATER MAIN

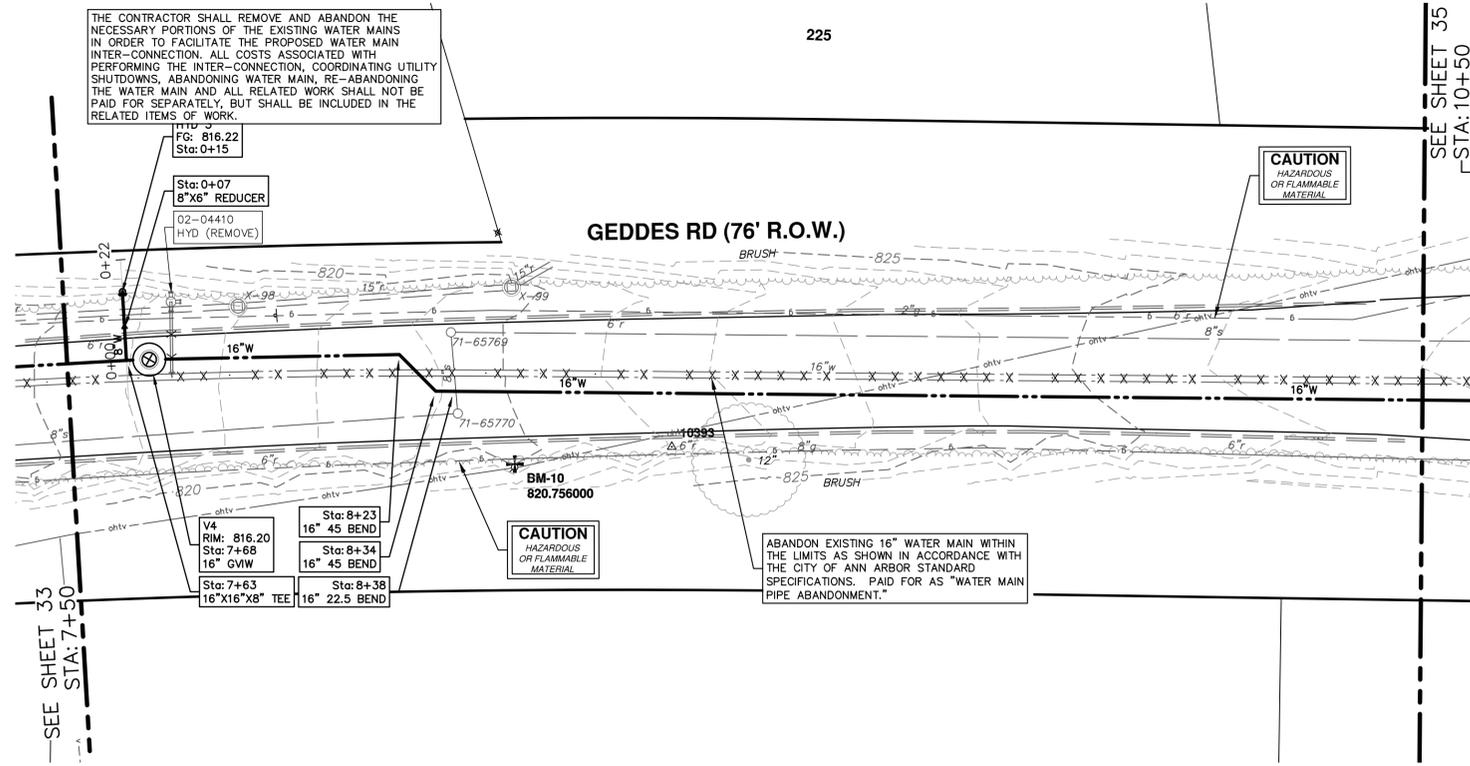
WATER MAIN PLAN & PROFILE

STA. 4+75 - STA. 7+50

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

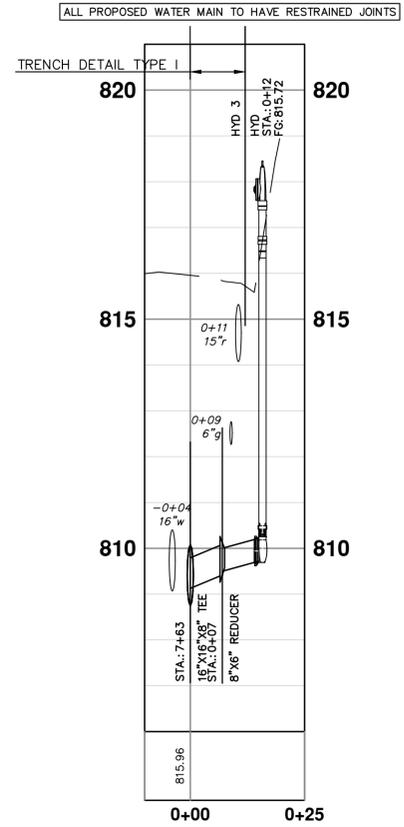
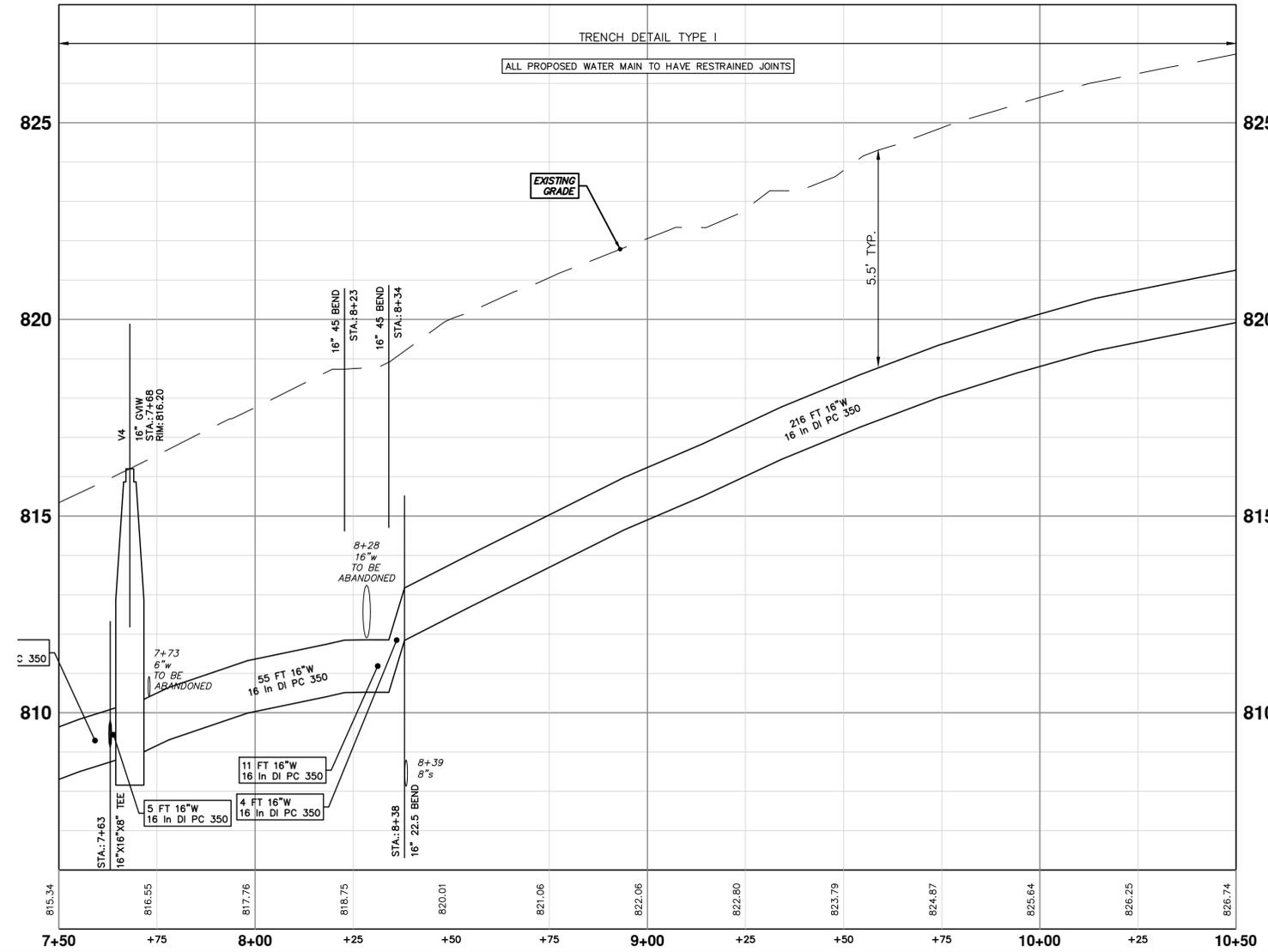
DRAWING No. 2018040-33

SHEET No. 33 OF 42



WATER MAIN STRUCTURE TABLE

STRUCTURE	TYPE	STATION	RIM	DEPTH
HYD 3	HYD	0+15	816.22	6.50
V4	16" GVW	7+68	816.20	7.38



CAUTION
HAZARDOUS
OR FLAMMABLE
MATERIAL

CAUTION
HAZARDOUS
OR FLAMMABLE
MATERIAL

ABANDON EXISTING 16" WATER MAIN WITHIN THE LIMITS AS SHOWN IN ACCORDANCE WITH THE CITY OF ANN ARBOR STANDARD SPECIFICATIONS. PAID FOR AS "WATER MAIN PIPE ABANDONMENT."

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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

GEDDES ROAD WATER MAIN
WATER MAIN PLAN & PROFILE
STA. 7+50 - STA. 10+50

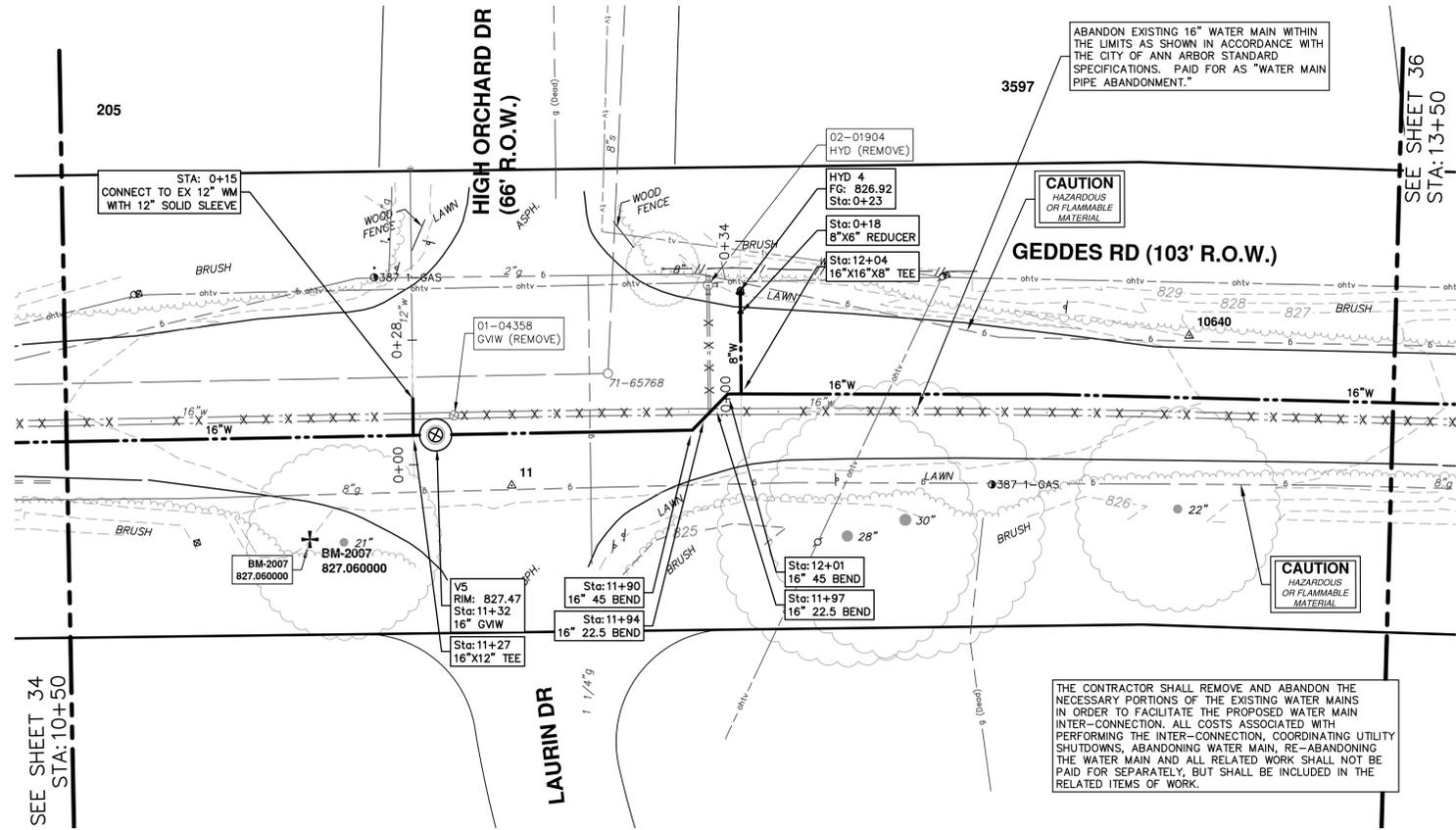
SCALE PLAN: 1" = 20'
PROFILE: 1" = 2'

DRAWING No.
2018040-34

SHEET No.

34 OF 42

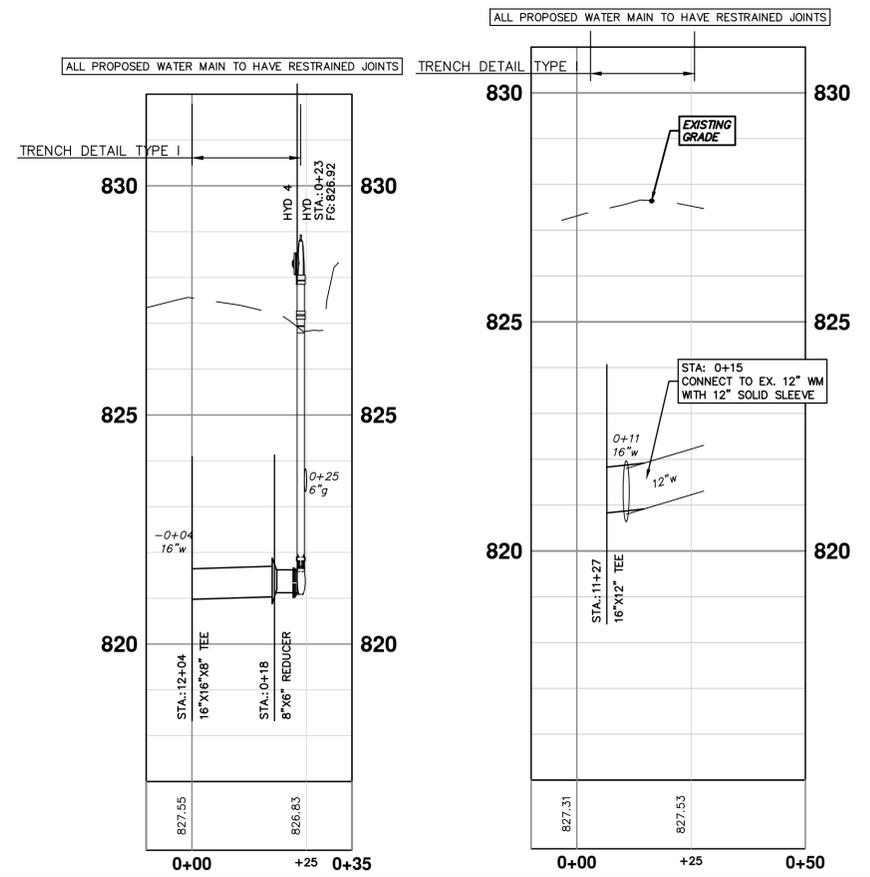
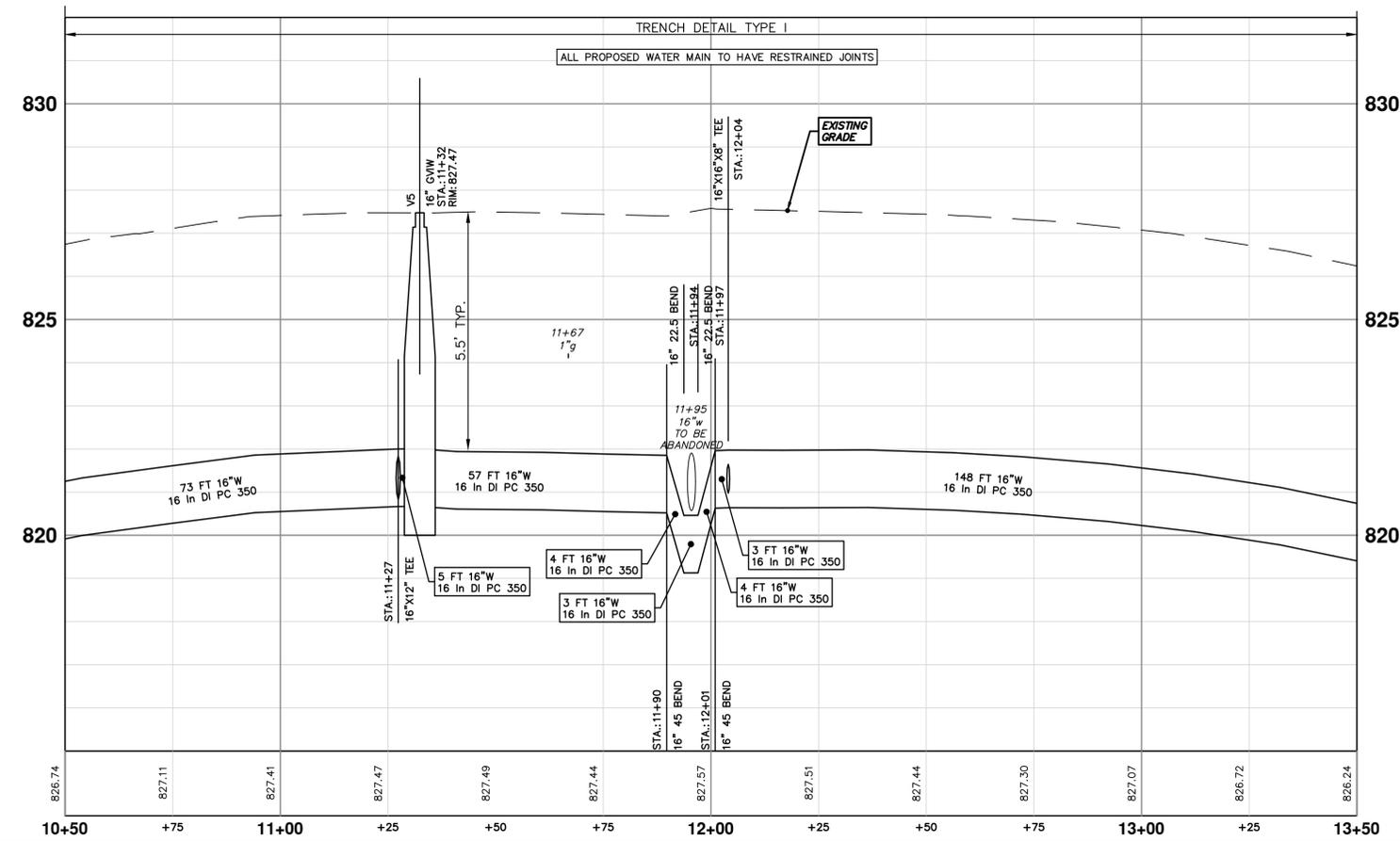
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WATER MAIN STRUCTURE TABLE

STRUCTURE	TYPE	STATION	RIM	DEPTH
HYD 4	HYD	0+23	826.92	5.80
V5	16" GVW	11+32	827.47	6.81

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.



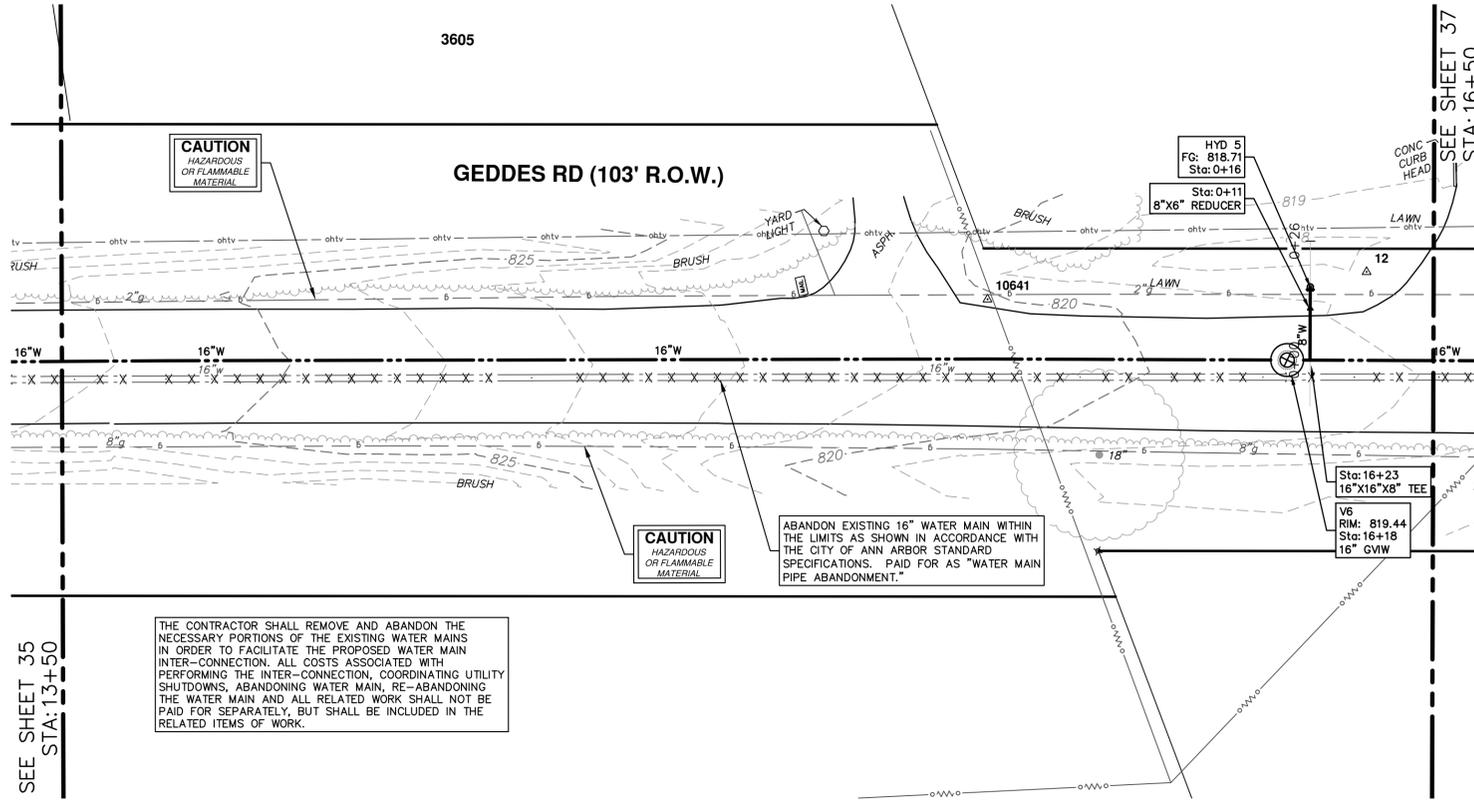
REV.	DESCRIPTION	DATE	BY	CHECKED

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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
GEDDES ROAD WATER MAIN
WATER MAIN PLAN & PROFILE
STA. 10+50 - STA. 13+50

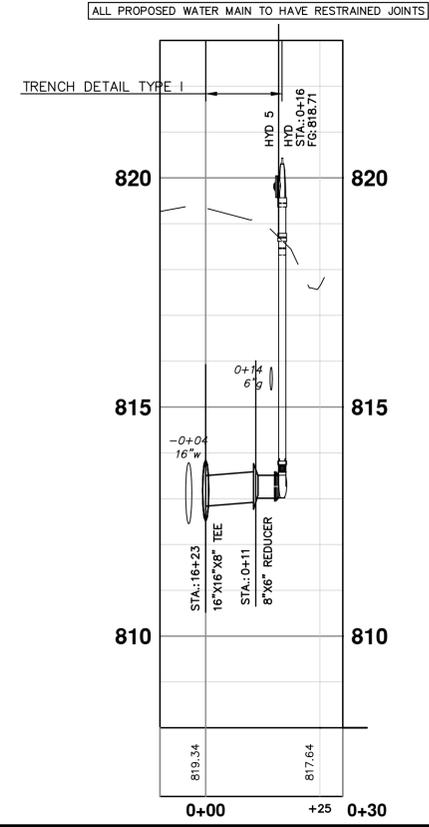
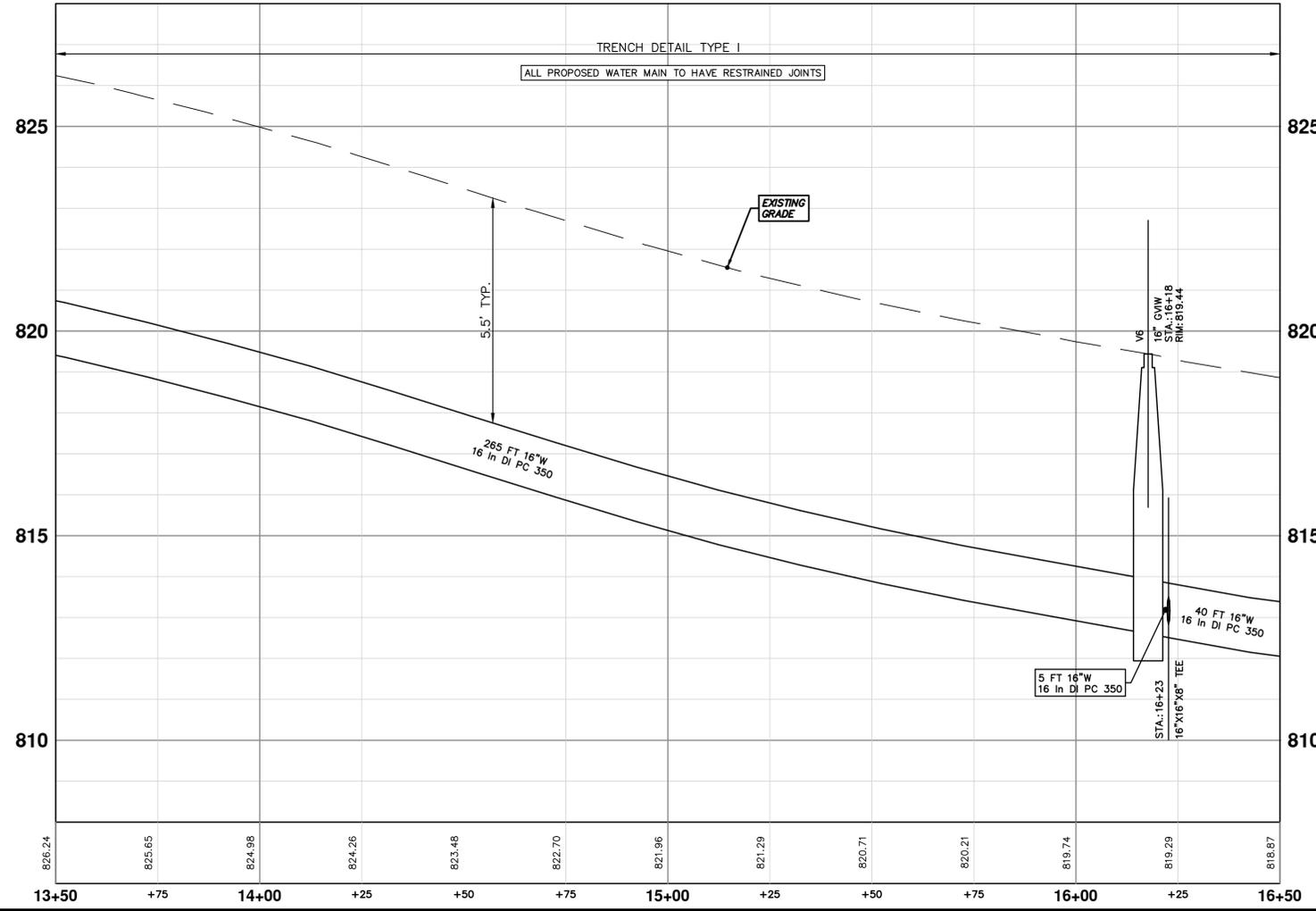
SCALE PLAN: 1" = 20'
PROFILE: 1" = 2'
DRAWING No. 2018040-35
SHEET No. 35 OF 42



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

ABANDON EXISTING 16" WATER MAIN WITHIN THE LIMITS AS SHOWN IN ACCORDANCE WITH THE CITY OF ANN ARBOR STANDARD SPECIFICATIONS. PAID FOR AS "WATER MAIN PIPE ABANDONMENT."

STRUCTURE	TYPE	STATION	RIM	DEPTH
HYD 5	HYD	0+16	818.71	5.70
V6	16" GVIW	16+18	819.44	6.83



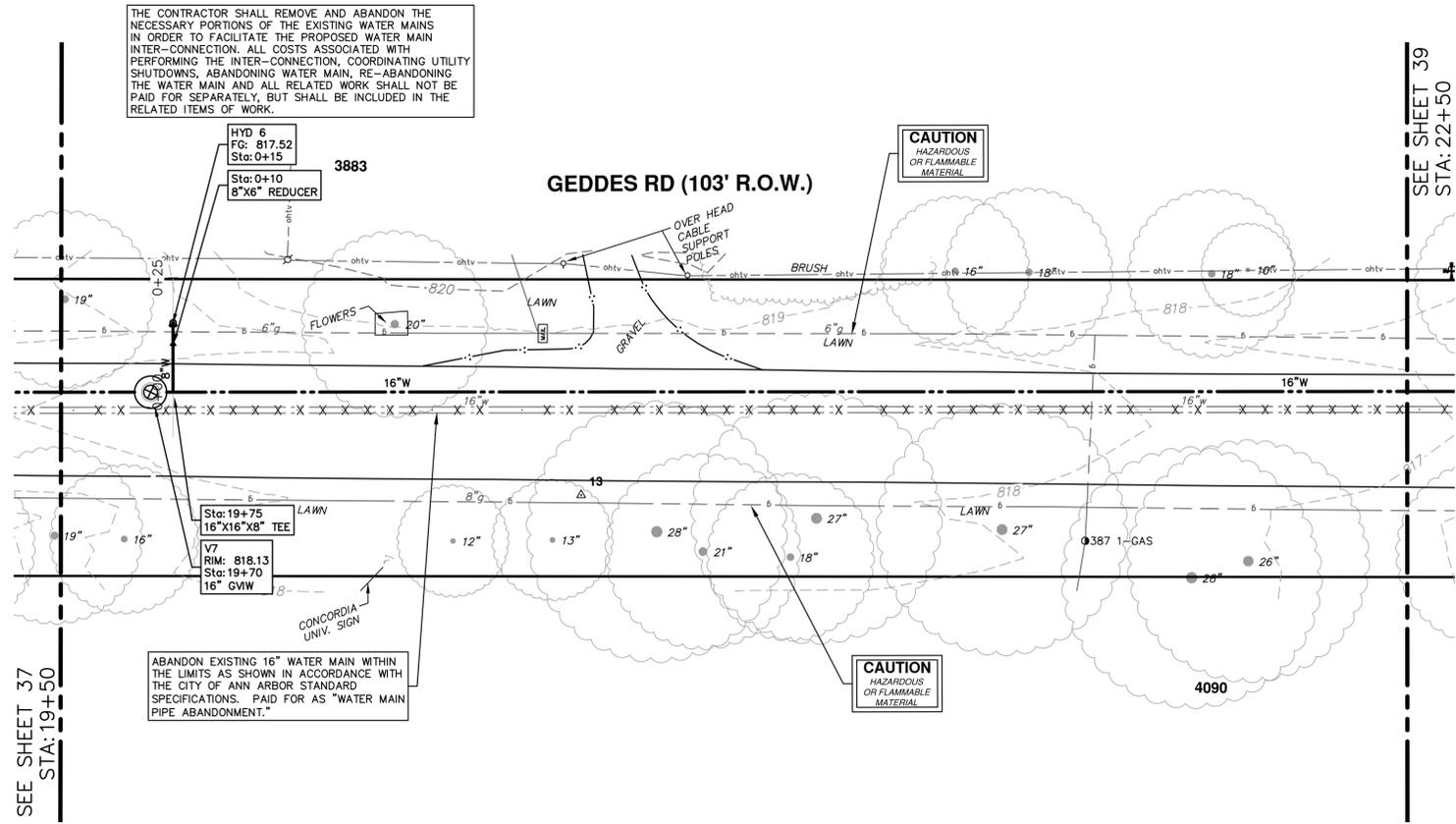
NO.	DATE	BY	CHECKED

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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
GEDDES ROAD WATER MAIN
WATER MAIN PLAN & PROFILE
STA. 13+50 - STA. 16+50

SCALE PLAN: 1" = 20'
PROFILE: 1" = 2'
DRAWING No. 2018040-36



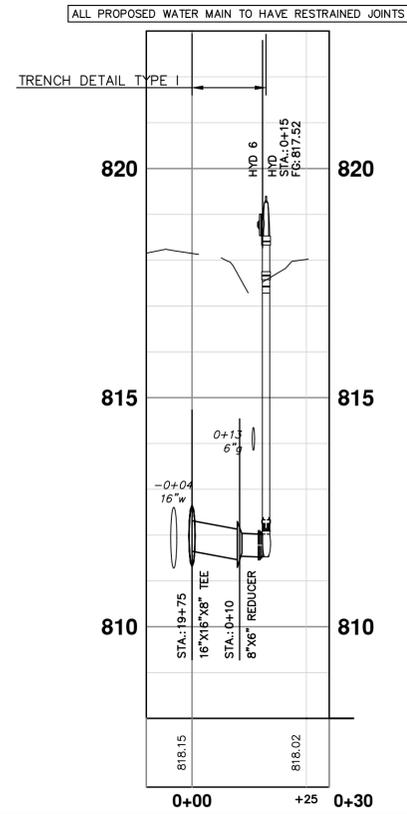
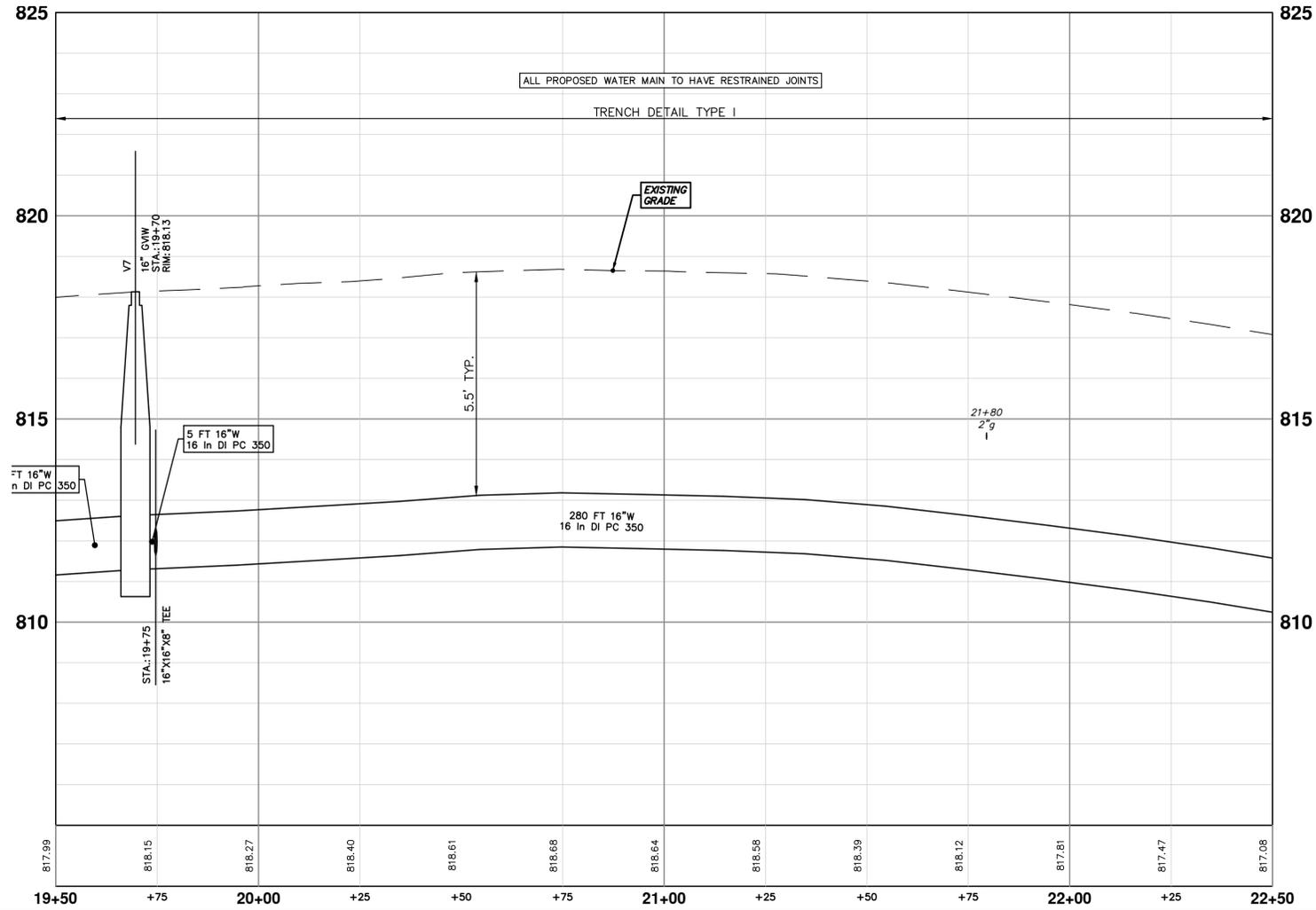
THE CONTRACTOR SHALL REMOVE AND ABANDON THE NECESSARY PORTIONS OF THE EXISTING WATER MAINS IN ORDER TO FACILITATE THE PROPOSED WATER MAIN INTER-CONNECTION. ALL COSTS ASSOCIATED WITH PERFORMING THE INTER-CONNECTION, COORDINATING UTILITY SHUTDOWNS, ABANDONING WATER MAIN, RE-ABANDONING THE WATER MAIN AND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

CAUTION
HAZARDOUS
OR FLAMMABLE
MATERIAL

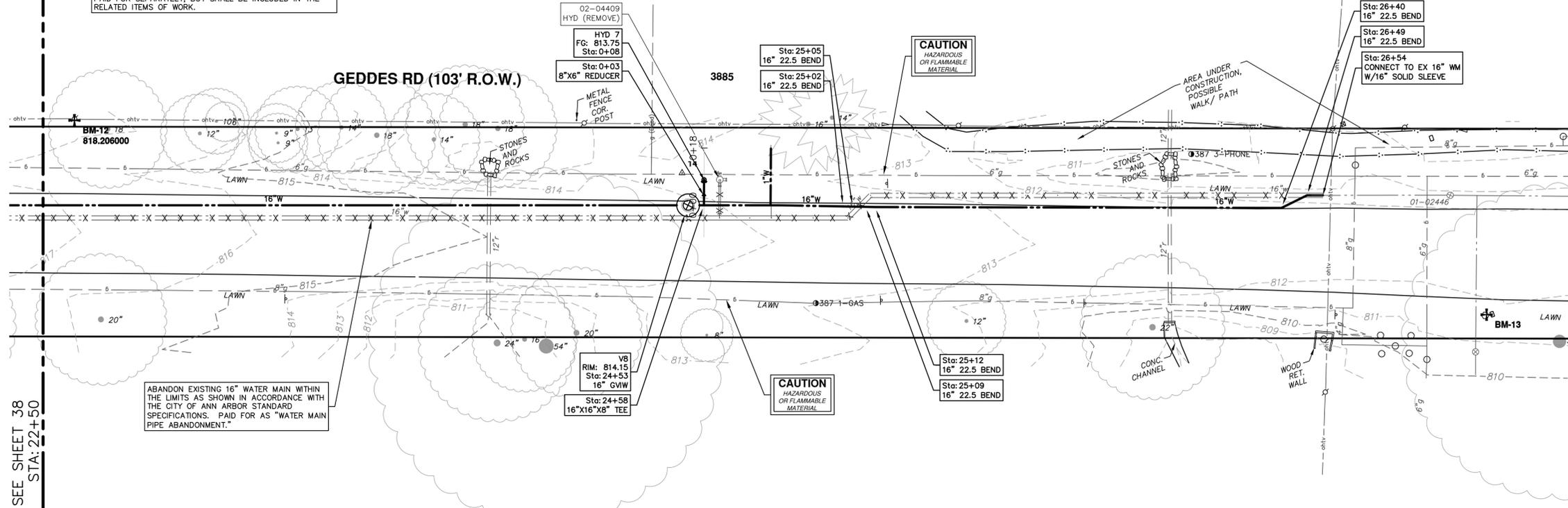
CAUTION
HAZARDOUS
OR FLAMMABLE
MATERIAL

ABANDON EXISTING 16" WATER MAIN WITHIN THE LIMITS AS SHOWN IN ACCORDANCE WITH THE CITY OF ANN ARBOR STANDARD SPECIFICATIONS. PAID FOR AS "WATER MAIN PIPE ABANDONMENT."

WATER MAIN STRUCTURE TABLE				
STRUCTURE	TYPE	STATION	RIM	DEPTH
HYD 6	HYD	0+15	817.52	6.00
V7	16" GWV	19+70	818.13	6.83



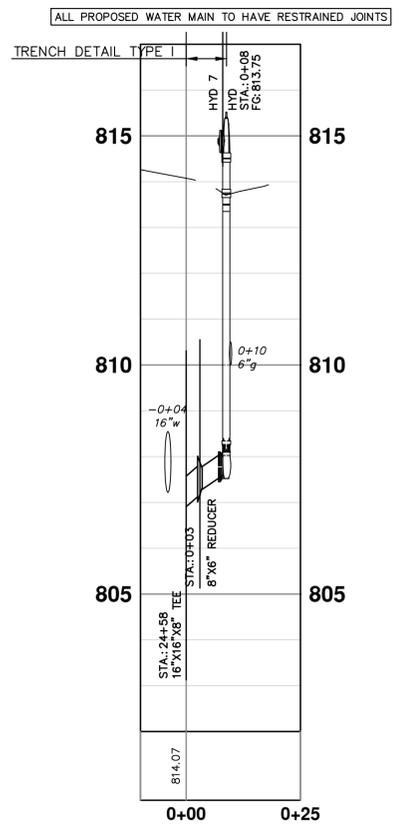
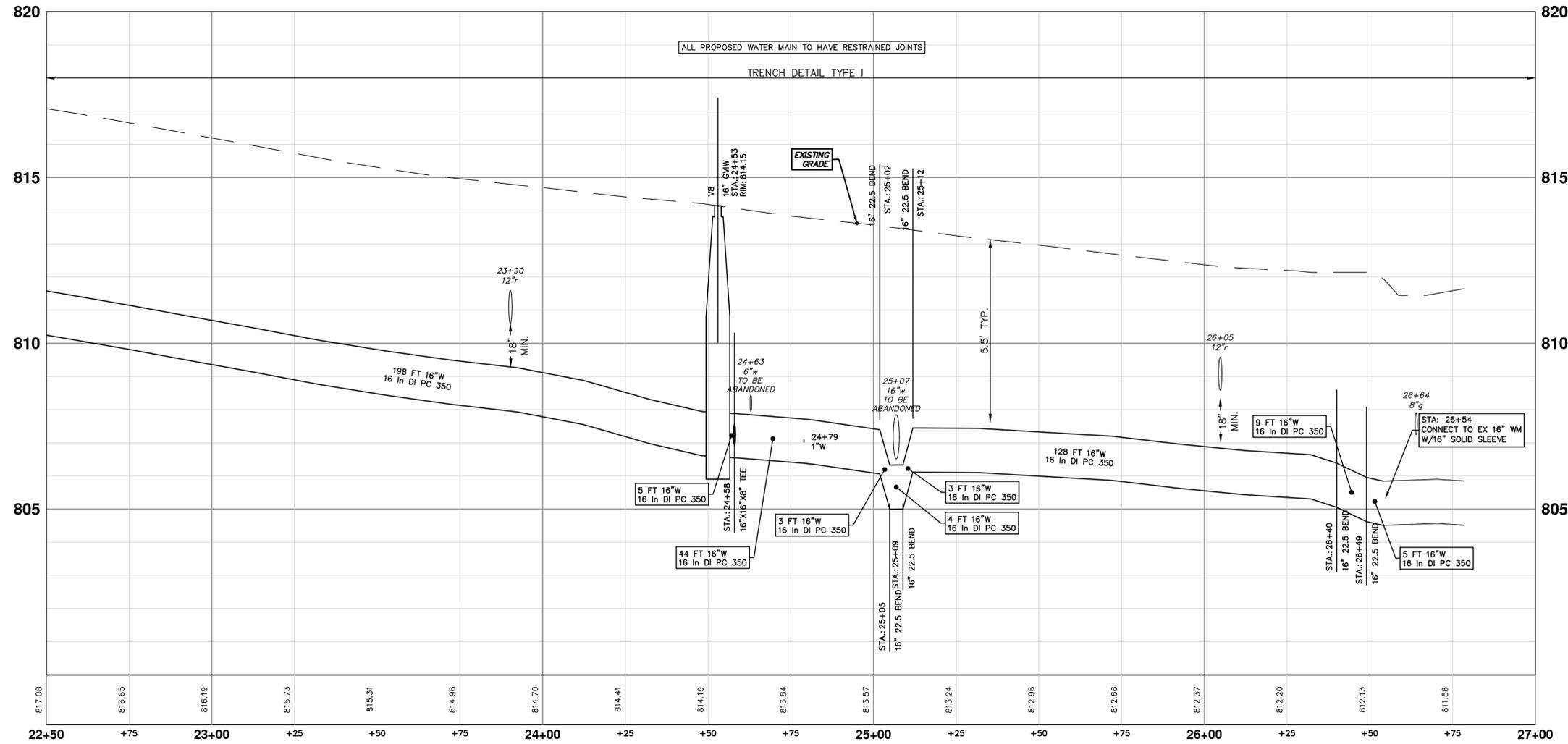
THE CONTRACTOR SHALL REMOVE AND ABANDON THE NECESSARY PORTIONS OF THE EXISTING WATER MAINS IN ORDER TO FACILITATE THE PROPOSED WATER MAIN INTER-CONNECTION. ALL COSTS ASSOCIATED WITH PERFORMING THE INTER-CONNECTION, COORDINATING UTILITY SHUTDOWNS, ABANDONING WATER MAIN, RE-ABANDONING THE WATER MAIN AND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



ABANDON EXISTING 16" WATER MAIN WITHIN THE LIMITS AS SHOWN IN ACCORDANCE WITH THE CITY OF ANN ARBOR STANDARD SPECIFICATIONS. PAID FOR AS "WATER MAIN PIPE ABANDONMENT."

SEE SHEET 38
STA: 22+50

STRUCTURE	TYPE	STATION	RIM	DEPTH
HYD 7	HYD	0+08	813.75	6.16
V8	16" GWV	24+53	814.15	7.58



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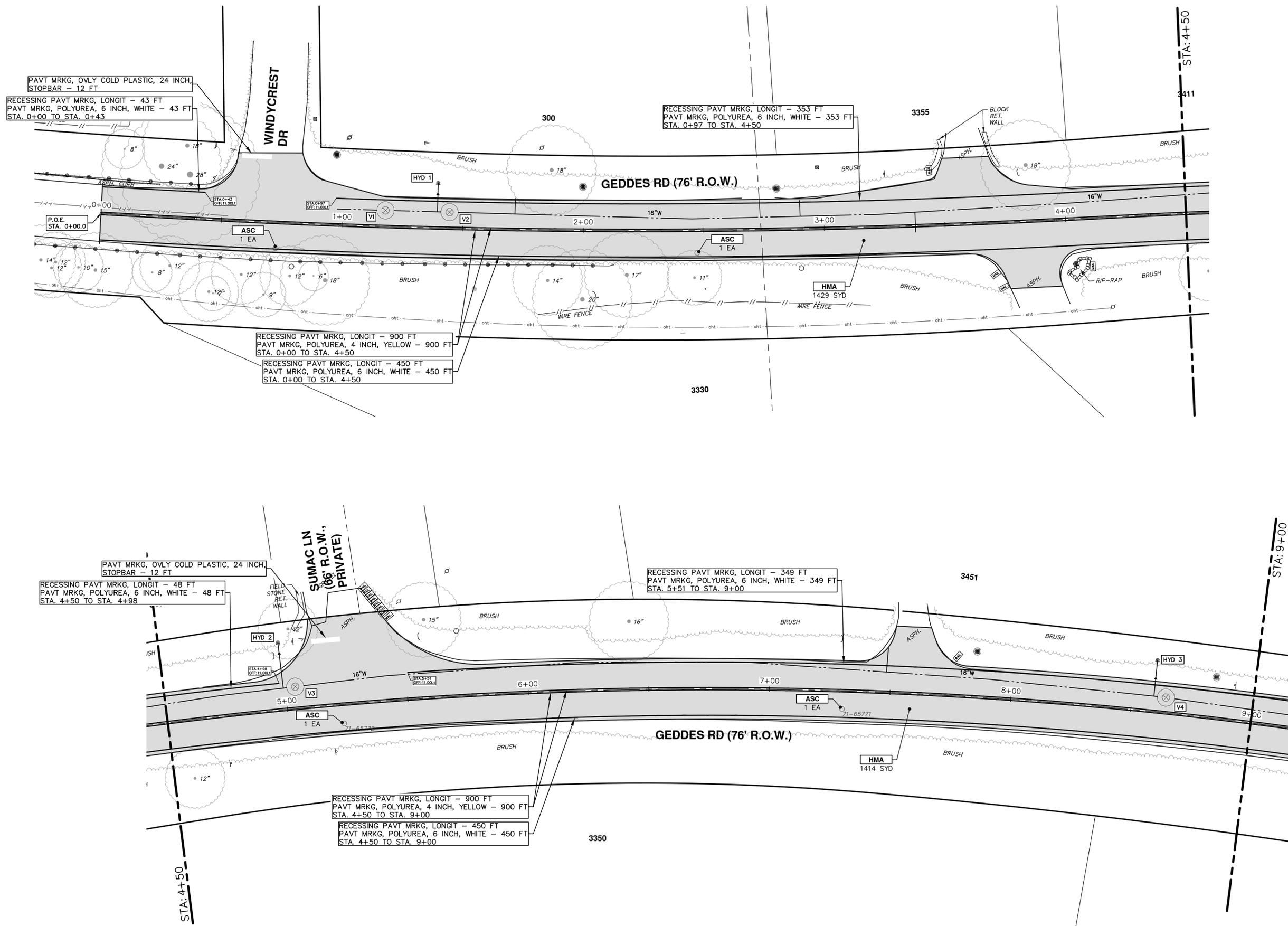


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GEDDES ROAD WATER MAIN
WATER MAIN PLAN & PROFILE
STA. 22+50 - STA. 26+63

SCALE PLAN: 1" = 20'
PROFILE: 1" = 2'
DRAWING No.
2018040-39

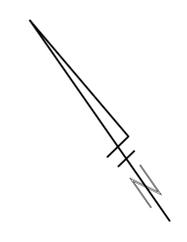
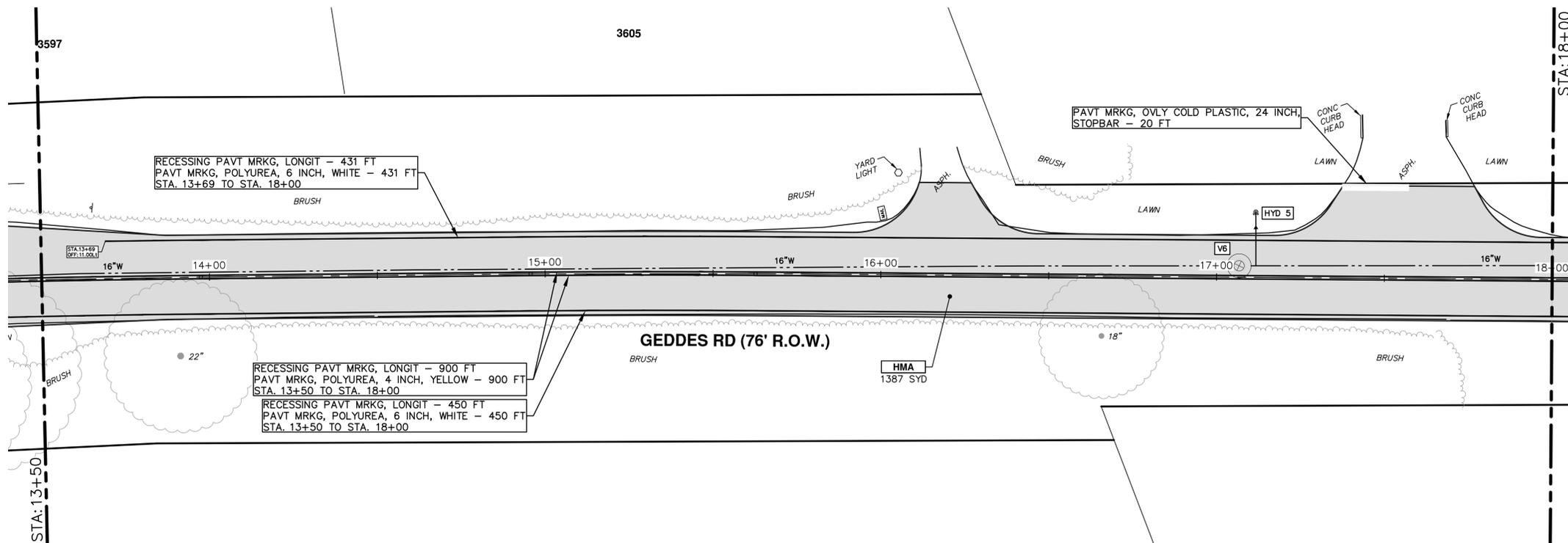
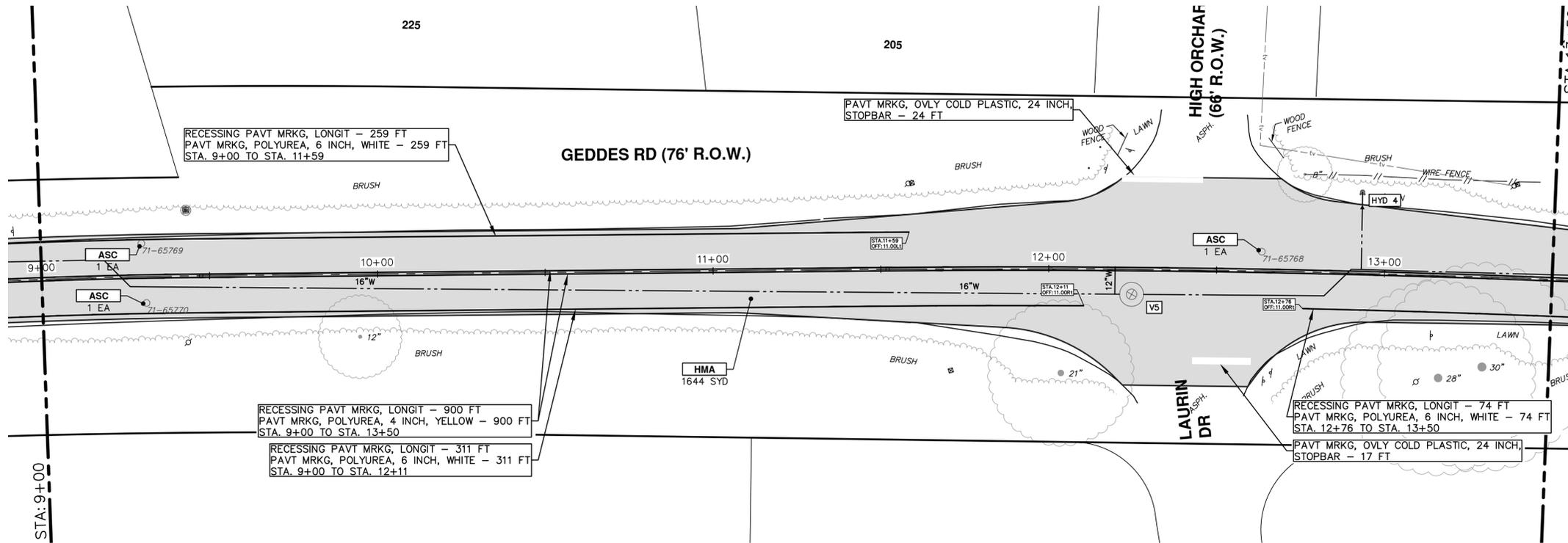
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<p>CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING GEDDES ROAD WATER MAIN ROAD PLANS AND PAVEMENT MARKINGS</p>	
<p>SCALE: 1" = 20'</p> 	<p>DRAWING No. 2018040-40</p>
<p>SHEET No. 40 OF 42</p>	
<p>STA. 0+00 - STA. 9+00</p>	
<p>CITY OF ANN ARBOR PUBLIC SERVICES 301 EAST HURON STREET ANN ARBOR, MI 48106-1647 ANN ARBOR: 734.794.4410 www.a2gov.org</p>	
<p>REV.</p>	<p>DESCRIPTION</p>
<p>00</p>	<p>COPY TO NEXT LINE AND EDIT THE TEXT</p>
<p>BY</p>	<p>DATE</p>
<p>CHECKED</p>	<p>DATE</p>
<p>Know what's below. Call Before you dig.</p>	

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GEDDES ROAD WATER MAIN

ROAD PLANS AND PAVEMENT MARKINGS

STA. 9+00 - STA. 18+00

SCALE: 1" = 20'

DRAWING No. 2018040-41

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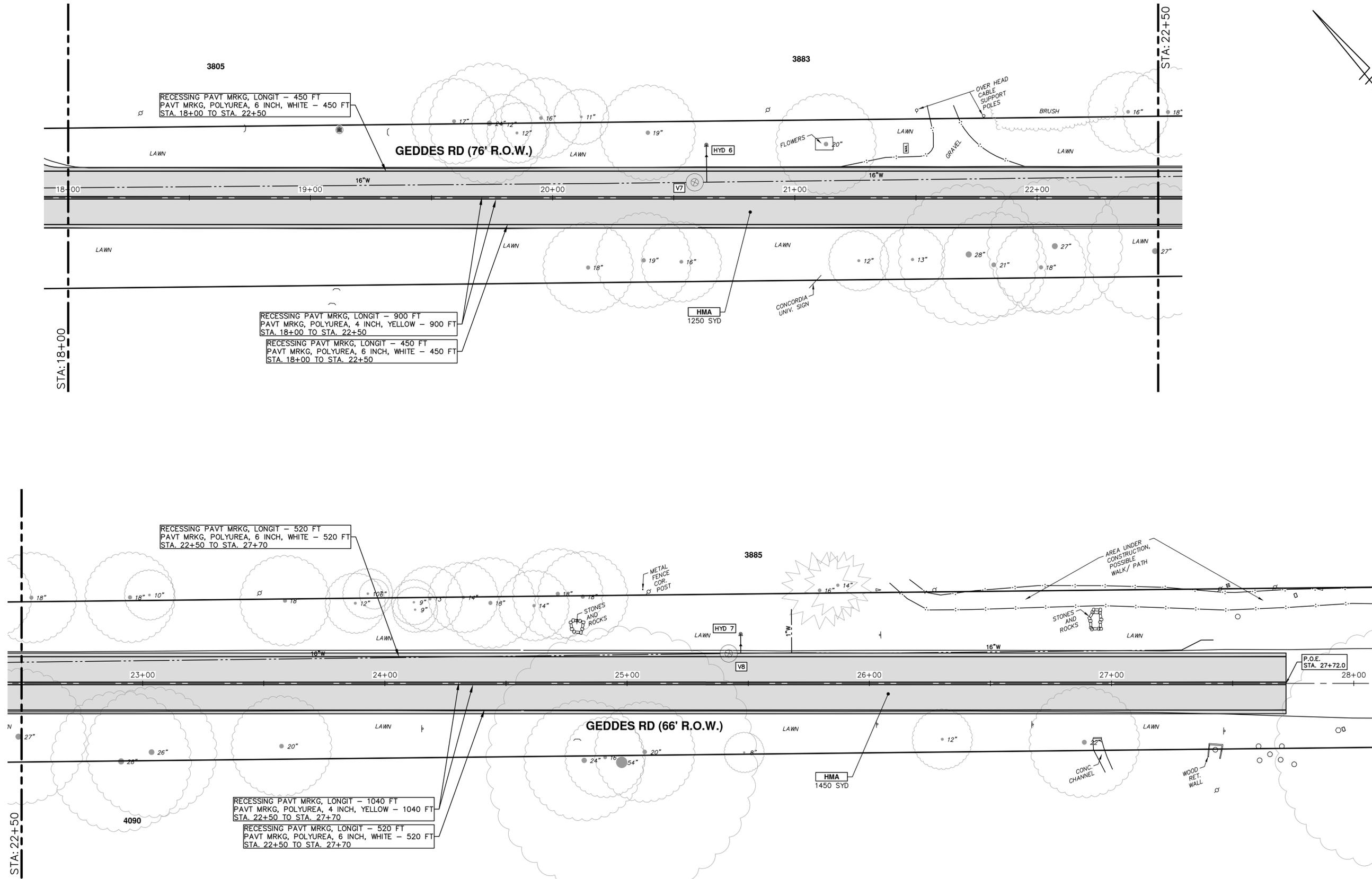
REV.	DESCRIPTION	DATE	BY	CHECKED

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CITY OF ANN ARBOR MICHIGAN

SHEET No. 41 OF 42

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ROAD PLANS AND PAVEMENT MARKINGS

SCALE: 1" = 20'
DRAWING No. 2018040-42