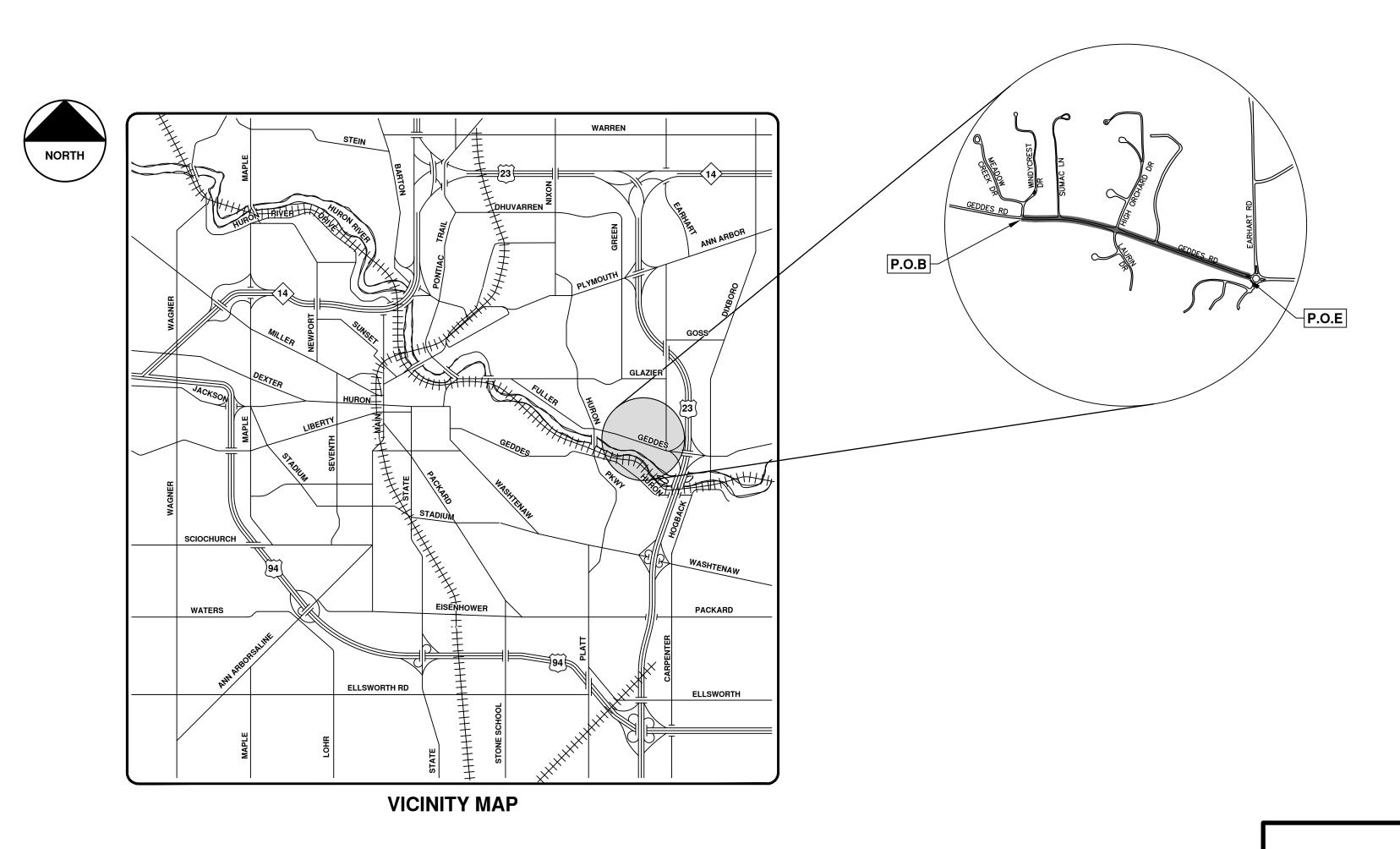


CITY OF ANN ARBOR ENGINEERING **GEDDES ROAD WATER MAIN**

	SHEET LIST TABLE			
SHEET NUMBER	SHEET TITLE			
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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.

				Know what's below.		
				Υ Β	DRAWN CHECKED	
				BY	DRA	
				DATE	DATE	
				COPY TO NEXT LINE AND EDIT THE TEXT	DESCRIPTION	
				00	REV.	
ANA	CITY OF ANN ARBOR	PUBLIC SERVICES	D P.O. BOX 8647 ANN ARBOR. MI 48107-8647	734-794-6410 www.a2gov.org	WICHIGH.	
NN ARBOR - PUBLIC SERVICES - ENGINEERING						
				DRAWING No.	2018040-1	

PREPARED UNDER THE SUPERVISION OF

IGOR V. KOTLYAR, P.E. - MI LICENSE No. 43287 **PROJECT ENGINEER**

/ /2021

DATE

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. 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 "Machine Grading, Modified"
- 28. 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.

- ANN ARBOR

- GRADE.
- OPERATIONS

SEQUENCE OF EROSION CONTROL MEASURES:

1.	THE CONTRACT
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1.6.	COMPLI	TF /

TEMPORARY SEEDING:

AND MULCH = \$50,000

PRIOR	CO 1.77

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

1. 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.

2. 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.

3. 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

4. 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.

5. 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. 6. 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

7. 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

8. SPECIAL PRECAUTIONS WILL BE TAKEN IN THE USE OF CONSTRUCTION EQUIPMENT TO PREVENT SITUATIONS THAT PROMOTE EROSION.

9. PROPER DUST CONTROL SHALL BE MAINTAINED DURING CONSTRUCTION BY USE OF WATER TRUCKS AND/OR DUST PALLATIVE AS REQUIRED.

10. 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.

11. 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.

12. TREE PROTECTION FENCING MUST REMAIN INTACT UNTIL RESTORATION OF THE SITE IS COMPLETE.

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

ION AND SEDIMENTATION CONTROL INSTALLATION MINIMUM REQUIREMENTS: FENCE, TREE PROTECTION FENCING, MUD MATS, INLET FILTERS ON EXISTING FEATURES, AND ALL OTHER TEMPORARY SOIL EROSION CONTROLS, PRIOR TO ANY OR EARTH MOVING OPERATION.

1.2. STRIP AND STOCKPILE TOPSOIL. STABILIZE STOCKPILE AS REQUIRED.

1.3. INSTALL WATER MAINS, STORM AND SANITARY SEWERS, AND OTHER ENCLOSED DRAINAGE NEW INLET FILTERS SHALL BE INSTALLED IMMEDIATELY FOLLOWING INSTALLATION OF AGE INLETS.

MACHINE GRADING OPERATIONS AND CONSTRUCT PAVEMENTS (MAINLINE, SIDEWALKS, DRIVES ETC)

LY MAINTAIN EROSION AND SEDIMENTATION CONTROL MEASURES, AS REQUIRED TO ALLOW DRAINAGE AND SEDIMENT REMOVAL. REMOVE ANY ACCUMULATED SEDIMENT IMMEDIATELY. COMPLETE ALL FINE GRADING.

1.7. TEMPORARY SEED AND INSTALL EROSION CONTROL BLANKET IN ALL DISTURBED AREAS.

1.8. REFER TO LANDSCAPE PLANTING PLANS FOR PERMANENT SITE STABILIZATION.

1.9. CLEAN OUT STORM SEWER SYSTEMS.

1.10. REMEDY ANY NOTED DEFECTS TO THE SATISFACTION OF THE CITY OF ANN ARBOR'S SOIL EROSION AND SEDIMENTATION CONTROL OFFICIAL.

1.11. 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.

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.

THE ESTIMATED COST OF SOIL EROSION AND SEDIMENTATION CONTROL MEASURES, TOPSOIL, SEEDING,

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

						—		
		PERMITS REQUIRED PRIOR TO THE BEG				_		Know what's below. Call before you dig
		PRIOR TO THE BEG				31		hat's b
		LANE CLOSURE PERMIT*		CITY OF ANN ARBO				Know w Call
		"NO PARKING" SIGNS PERMI	IT*	ENGINEERING CITY OF ANN ARBO	R			BY CHECKED
		GRADING/SOIL EROSION & S CONTROL PERMIT*	EDIMENTATION	ENGINEERING CITY OF ANN ARBO CUSTOMER SERVIC			++	
		RIGHT-OF-WAY PERMIT*		CITY OF ANN ARBO	R		++	BY DRAWN
			* NO COST TO	CONTRACTOR				DATE
		PERMITS REQUIRED ARBOR PRIOR TO T					++	DATE
		PERMIT		ISSUING				TEXT
		EGLE WATER MAIN CONSTRUCT PERMIT	ΠΟΝ	MICHIGAN DEPARTME GREAT LAKES, AND	NT OF ENVIRONMENT, ENERGY			EDIT THE
								LINE AND EDIT
		PUBLIC UTILITIES WATER		OWNER	CONTACT DAN WOODEN			TO NEXT
		SANITARY			(734) 794–6350 DCWOODEN@A2GOV.ORG TRAVIS CONLEY (734) 794–6350		+	00 COPY
		STORM	W.R. WHEELER S 4251 STONE SC		TCONLEY@A2GOV.ORG KEVIN SCHNEIDER (734) 794-6350	 	647	
		FORESTRY	ANN ARBOR, MI		KSCHNEIDER@A2GOV.ORG MATT WALDSMITH (734) 794-6350 MWALDSMITH@A2GOV.ORG	ANN ARRC	IC SERVICES IC SERVICES I HURON STREET D. BOX 8647 OR, MI 48107-8647	4-794-6410 w.a2gov.org
		SIGNS SIGNALS STREET LIGHTS			CHUCK FOJTIK (734) 794–6361 CFOJTIK@A2GOV.ORG		PUBL PUBL 301 EAS P.C ANN ARB	23 MM
		PRIVATE UTILITIES	C	WNER	CONTACT		BOR	\
		GAS ELECTRIC	DTE ENERGY WESTERN WAYN	ISHIP, MI 48198 E SERVICE CENTER	ROBERT CZAPIEWSKI (734) 544–7818 ANTHONY IGNASIAK (734) 397–4447	ANN		H
		CABLE	8001 HAGGERTY BELLEVILLE, MI COMCAST 27800 FRANKLI	48111 N ROAD	RON SUTHERLAND (313) 999–8300			
		PHONE	SOUTHFIELD, MI AT&T 550 S. MAPLE ANN ARBOR, MI	ROAD	SHAWN BURNSIDE (734) 996-5322 (313) 683-7349(MOBILE)			
		FIBER OPTIC	MCI 2800 N. GLENFI RICHARDSON, T	ILLE ROAD	(313) 683–7349(MOBILE) DEAN BOYERS (972) 729–6016		z	
		FIBER OPTIC	WINDSTREAM 1295 S LINDEN	ROAD, SUITE B	GREG SERICH (810) 244–3500	(5	MAIN	
		STREET LIGHTING	FLINT, MI 48532 DTE ENERGY 8001 HAGGERTY	(ROAD	LANCE ALLEY (734) 397–4188	ENGINEERING	WATER	TES
		GEDDES ROAD WATE	BELLEVILLE, MI			NE		STANDARD NOTES
						NG	ROAD	
BM #	ELEV 753.457	DESCRIPTION SET RR SPIKE IN S. SIDE OF U.P. ON N. SIDE O	E GEDDES RD (4TH		KWY)			ST/
2	755.003	S. RIM ON SAN. MH. IN EAST BOUND LANE. 80':				СË	GEDDES	
3	753.694	SET RR SPIKE IN S. SIDE OF U.P. ON N. SIDE OF				SERVICES	GEI	
	753.894	S. RIM ON SAN. MH. IN EASTBOUND LANE. 65'±				SE		
4 5	750.025	S. RIM ON SAN. MH. IN EASTBOUND LANE. 65 1				1		
				TOREST		PUBLIC		
6	777.488	S. RIM ON SAN. MH. IN EASTBOUND LANE @ W				Ē		
7	777.062	SET RR SPIKE IN S. SIDE OF U.P. @ NE CORNE				OR		
8	786.084	S. RIM ON SAN. MH. IN EASTBOUND LANE. FIR				ARBOR		
9	801.568	FND NAIL IN S. SIDE OF U.P. AT NE CORNER OF						
10	820.756	SET RR SPIKE IN N. SIDE OF U.P. ON S. SIDE OF GEDDES. 300'± W. OF HIGH ORCHARD			ANN			
2007	827.060	CITY OF ANN ARBOR VERTICAL CONTROL STATION. BRASS DISC @ SW CORNER OF GEDDES AND HIGH ORCHARD			Ы		-	
11	816.985	SET RR SPIKE IN S. SIDE OF U.P. ON N. SIDE O	F GEDDES. 75'± E. (OF € DRIVE FOR CHUR	СН	≻	. NTS	NG No. 040-2
12	818.206	SET RR SPIKE IN S. SIDE OF U.P. ON N. SIDE O	F GEDDES. 180'± E.	OF & DRIVE FOR HSE	No. 3805	CIT	SCALE	DRAWING No. 2018040-2
13	812.501	TOP OF NE. ANCHOR FOR L.P. ON S. SIDE OF G	GEDDES. SECOND	L.P. W. OF ROUND-ABO	DUT AT EARHART.	SHEE	T No.	
15								

EX	ISTING LEGEND			PF
 ‡+	FIRE HYDRANT	<i>W</i>	WATER MAIN	Φ^+
I	GATE VALVE IN BOX	/_/_/_/_/_/_/_/_/_/_/_/_/_/_/_/_/_/_	WATER MAIN ABANDONED	÷ ⊗
Ø	GATE VALVE IN WELL	<u> </u>	STORM SEWER	•
•	STOP BOX	///	STORM SEWER ABANDONED	1
w	WATER VAULT	<i>S</i>	SANITARY SEWER	(ii)
Ø	WELL	///	SANITARY SEWER ABANDONED	W
	CATCH BASIN (SQ)	g	GAS MAIN	•
	CATCH BASIN (RD)	g (DEAD)	GAS MAIN (DEAD)	
С	STORM MANHOLE	o~~~o~~~~	ELECTRICAL OVER HEAD	0
	NON-CURB CATCH BASIN (SQ)		ELECTRICAL UNDER GROUND	
)	END SECTION	e duct bank	ELECTRICAL DUCT BANK	Ŏ
0	SANITARY MANHOLE		TELEPHONE OVER HEAD	
0	CLEAN-OUT		TELEPHONE UNDER GROUND	
•	POST	t duct bank		
¢	PEDESTRIAN SIGNAL		TELEPHONE DUCT BANK	©
þ	SIGN	— ohtv —	CABLE TV OVER HEAD	•
	HAND HOLE	— tv —	CABLE TV UNDER GROUND	- 0 -
¢	ORNAMENTAL LIGHT	fo	FIBER OPTIC	
ᄍ	FLOOD LIGHT	fo duct bank	FIBER OPTIC DUCT BANK	
?	UNKNOWN MANHOLE		BOUNDARY	_
Ø	TELEPHONE MANHOLE		BUILDING	
Ň	TELEPHONE RISER		CENTERLINE OF DITCH	
9	GAS VALVE		CENTERLINE/CROWN OF ROAD	
0	GAS VENT	<i>800</i>	CONTOUR MAJOR	
⊞	GAS BOX	799	CONTOUR MINOR	
ž	ELECTRICAL RISER		EDGE OF WATER	

- 🖄 ELECTRICAL RISER TRANSFORMER
- Ø UTILITY POLE
- AMP POLE
- ► GUY ANCHOR
- φ *GUY POLE*
- MONITORING WELL
- MAILBOX SOIL BORING
- ∆ TRAVERSE POINT
- 🕂 BENCH MARK
- o IRON PIPE
- MON BOX



.

-----//------//----- FENCE

-----:·-----:·------ GRA VEL

------ R.O.W.

TREELINE

EDGE OF BRUSH

OCCONTRACTOR WALL

TREE (CONIFEROUS)

TREE (DECIDUOUS)

FLOODPLAIN

 \sim

SHRUB (DECIDUOUS)

STUMP

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

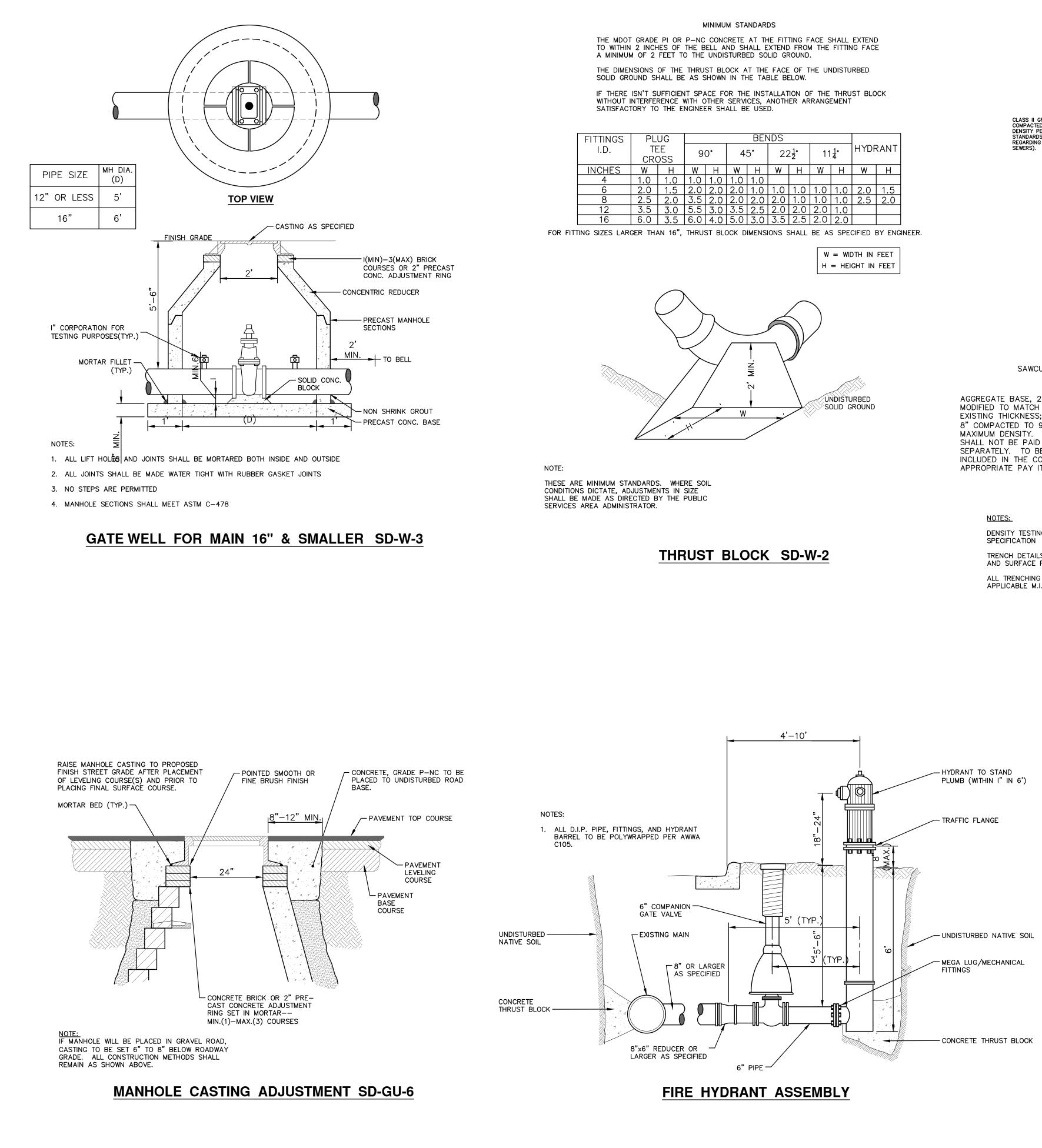


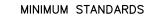
TREE TO REMAIN & PROTECT (CONIFEROUS) CRITICAL ROOT ZONE (C.R.Z.) = DIAMETER BREAST HEIGHT (INCHES) X 10

PROPOSED LEGEND WATER MAIN + HYDRANT (PLAN) _____ R _____ STORM SEWER WATER GATE WELL _____ S ____ SANITARY SEWER REDUCER WATER GATE VALVE FIBER OPTIC E - - - E ELECTRICAL WATER STOP BOX WATER VAULT CENTERLINE OF DITCH INLET CENTERLINE OF ROAD DOUBLE INLET INLET JUNCTION CHAMBER -----:-- GRAVEL _____ SILT FENCE ROUND CATCH BASIN STORM MANHOLE PROTECTIVE FENCE DRAIN ARROW . GUARDRAIL LOT/UNIT FLARED END SECTION SANITARY MANHOLE CURB CLEAN-OUT BARREL | H SIGN - 799 ----- CONTOUR MINOR O PUSH BUTTON ----- WATER EASMENT AND HAND HOLE ----- STORM EASEMENT DF, ----- SANITARY EASEMENT R.O.W. NEXT LIMITS OF CONSTRUCTION DETECTABLE WARNING ASPHALT ມັ ເ CONCRETE SIDEWALK E E TREE (DECIDUOUS) • My TREE (CONIFEROUS) ۲ TREE TO BE REMOVED (DECIDUOUS) CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING CALE : MIS GEDDES ROAD WATER TREE TO BE REMOVED (CONIFEROUS) Ш С О STUMP TO BE REMOVED

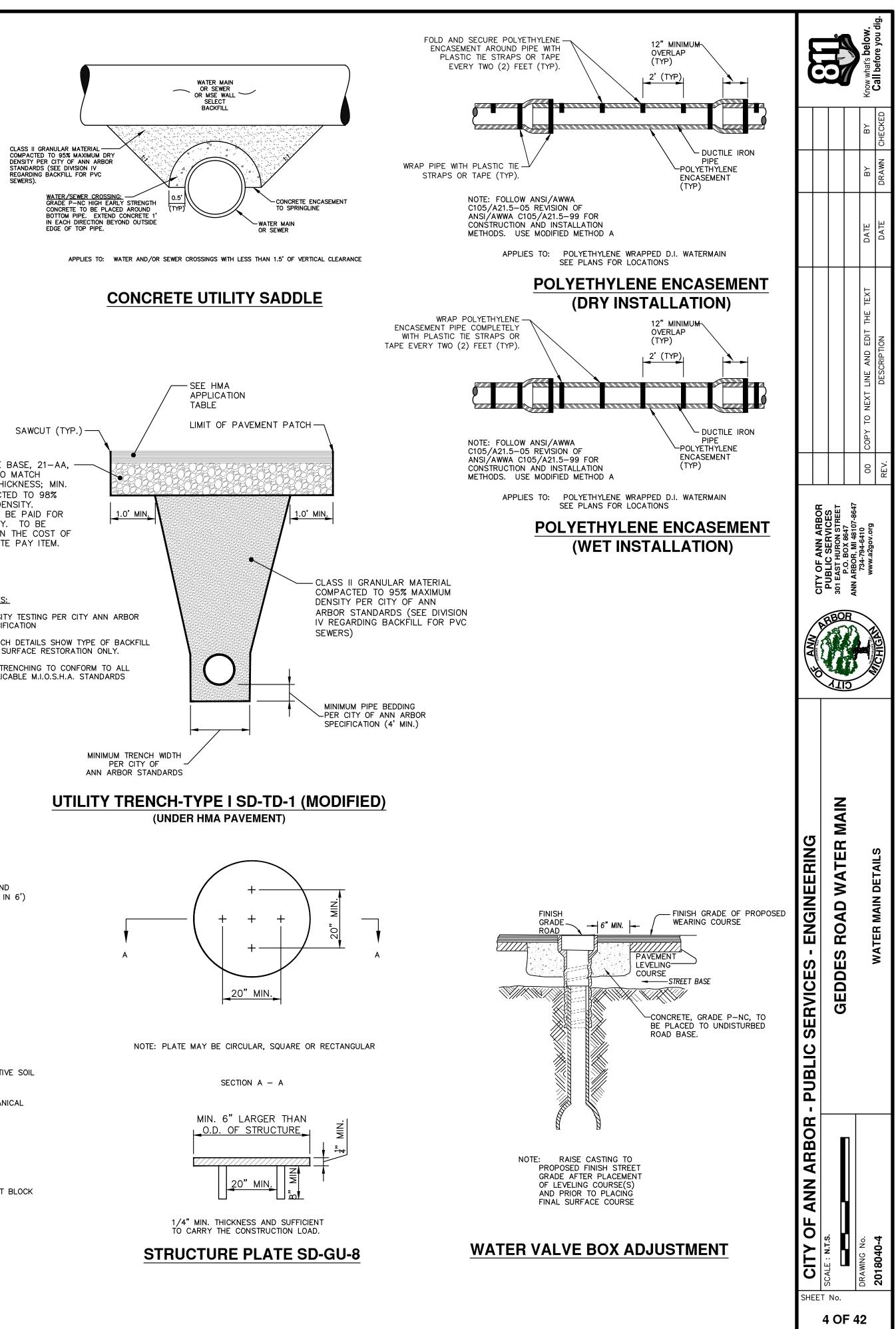
SHEET No. 3 OF 42

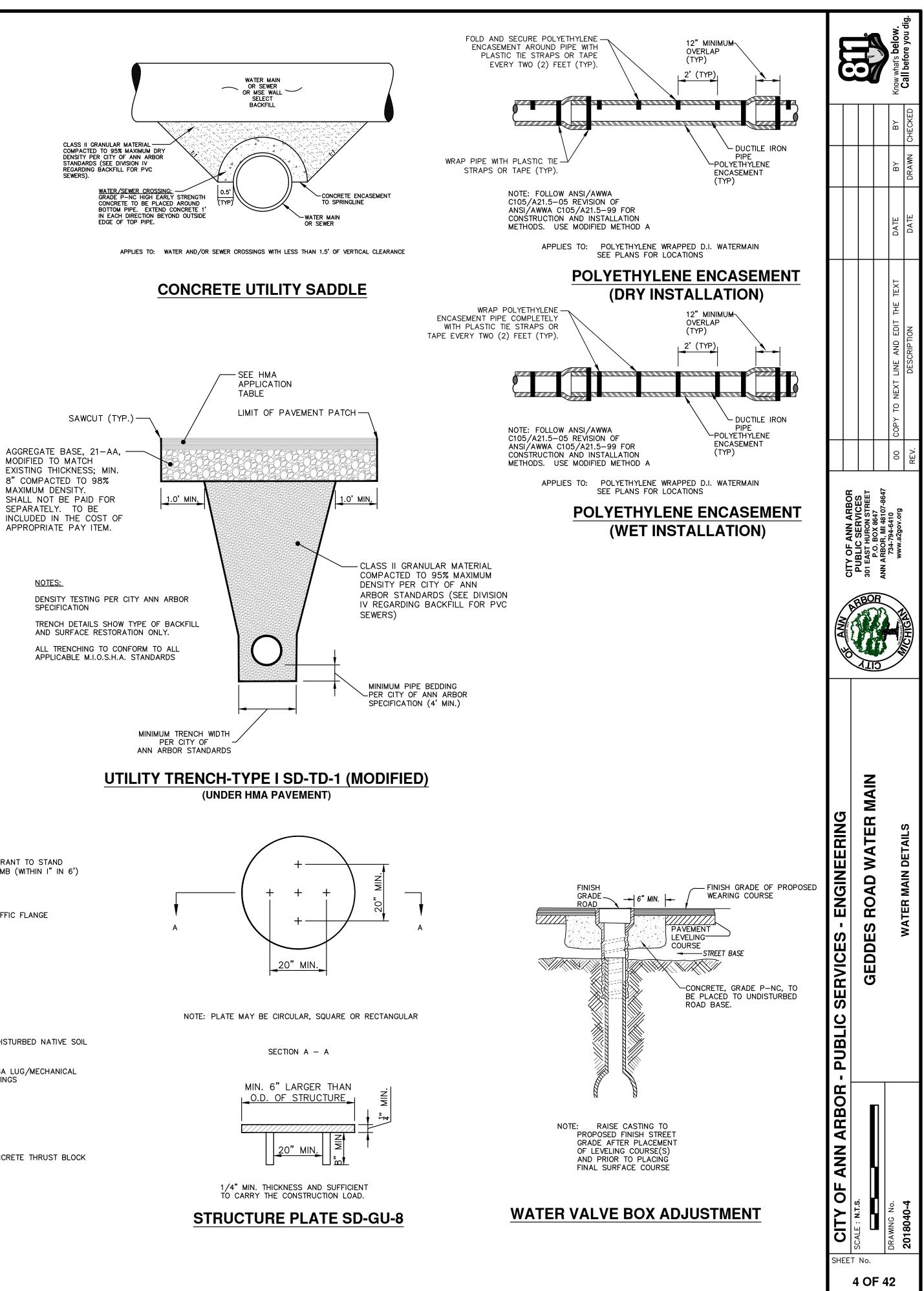
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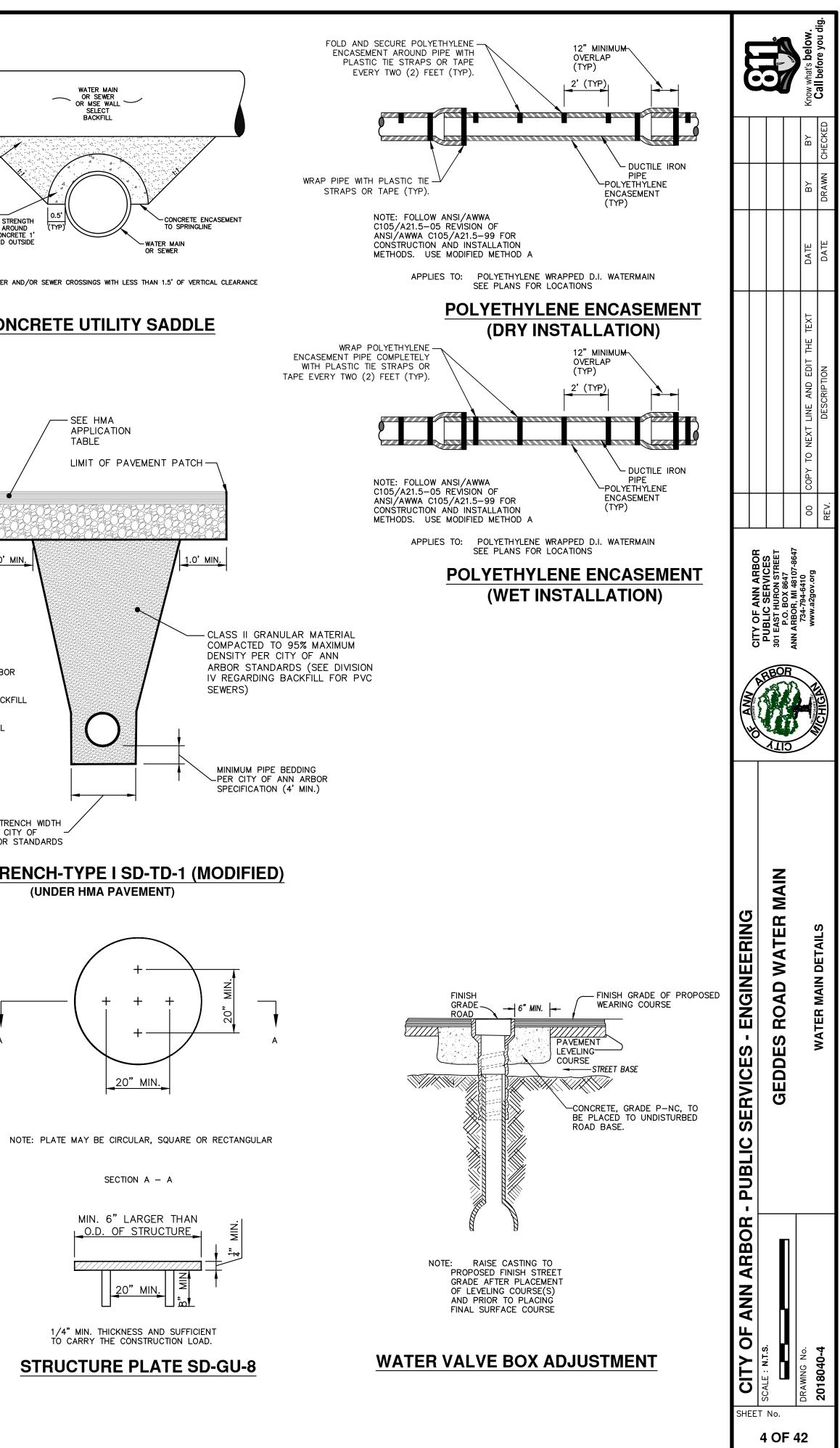


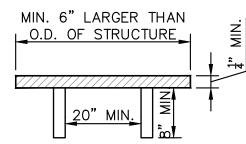


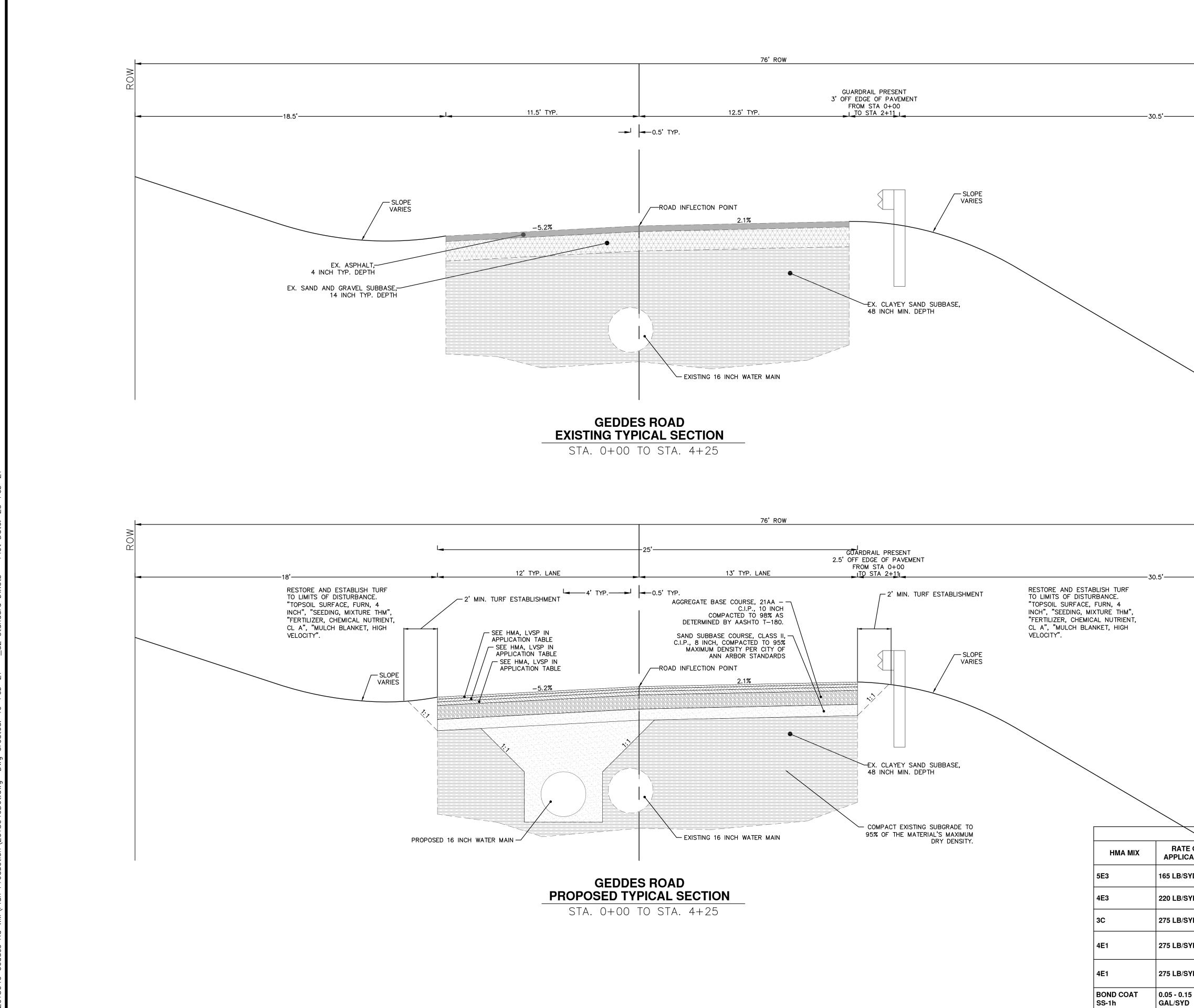
GS	PL	UG				BEN	<u>IDS</u>					
		EE DSS	9	0°	4	5°	22	2 <u>1</u> • -2	11	1 ∙ 4	HYDF	RANT
ES	W	Н	W	H	W	Н	W	H	W	H	W	Н
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	2.0	1.5	2.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0	2.0	1.5
	2.5	2.0	3.5	2.0	2.0	2.0	2.0	1.0	1.0	1.0	2.5	2.0
	3.5	3.0	5.5	3.0	3.5	2.5	2.0	2.0	2.0	1.0		
	6.0	3.5	6.0	4.0	5.0	3.0	3.5	2.5	2.0	2.0		



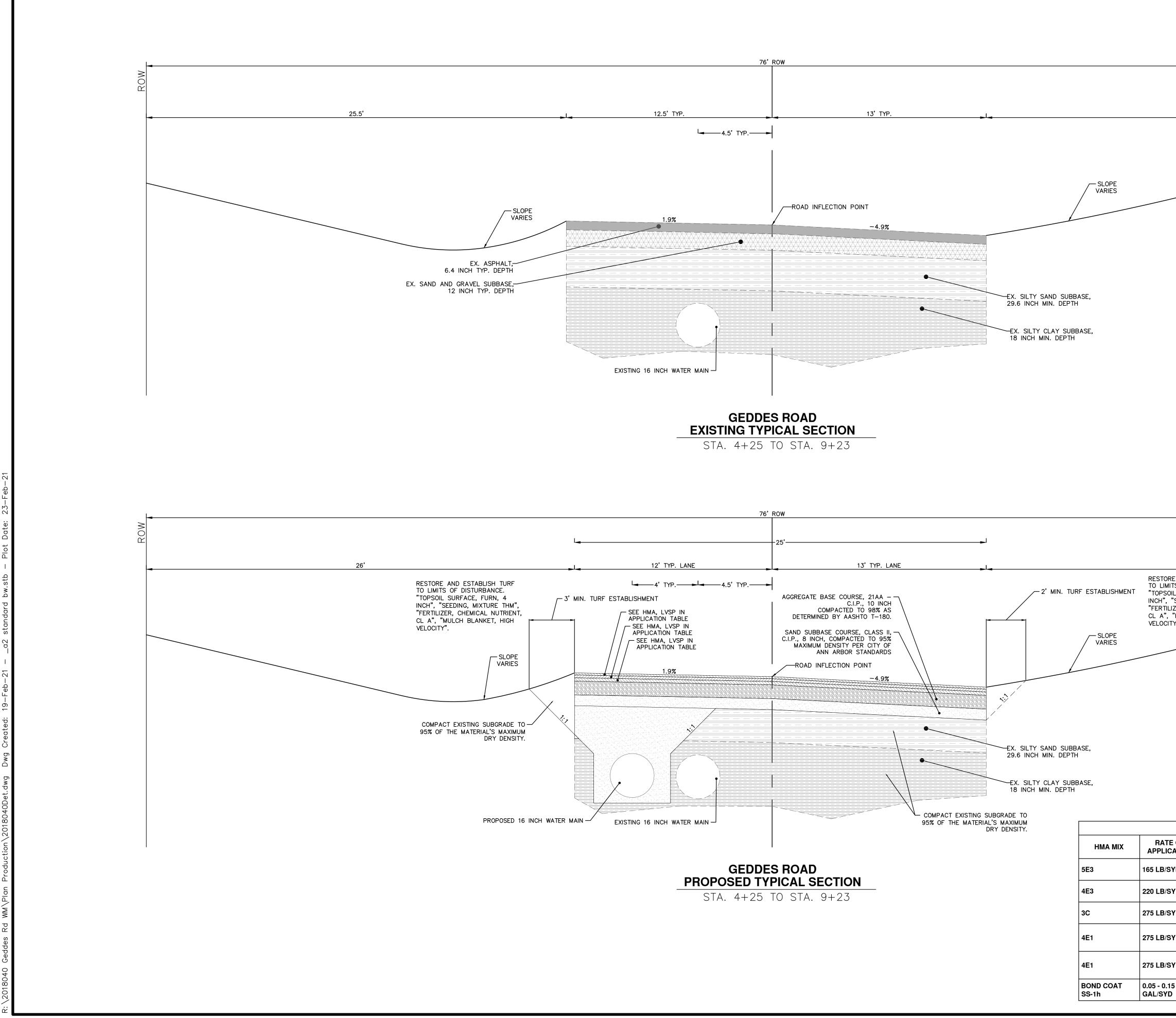




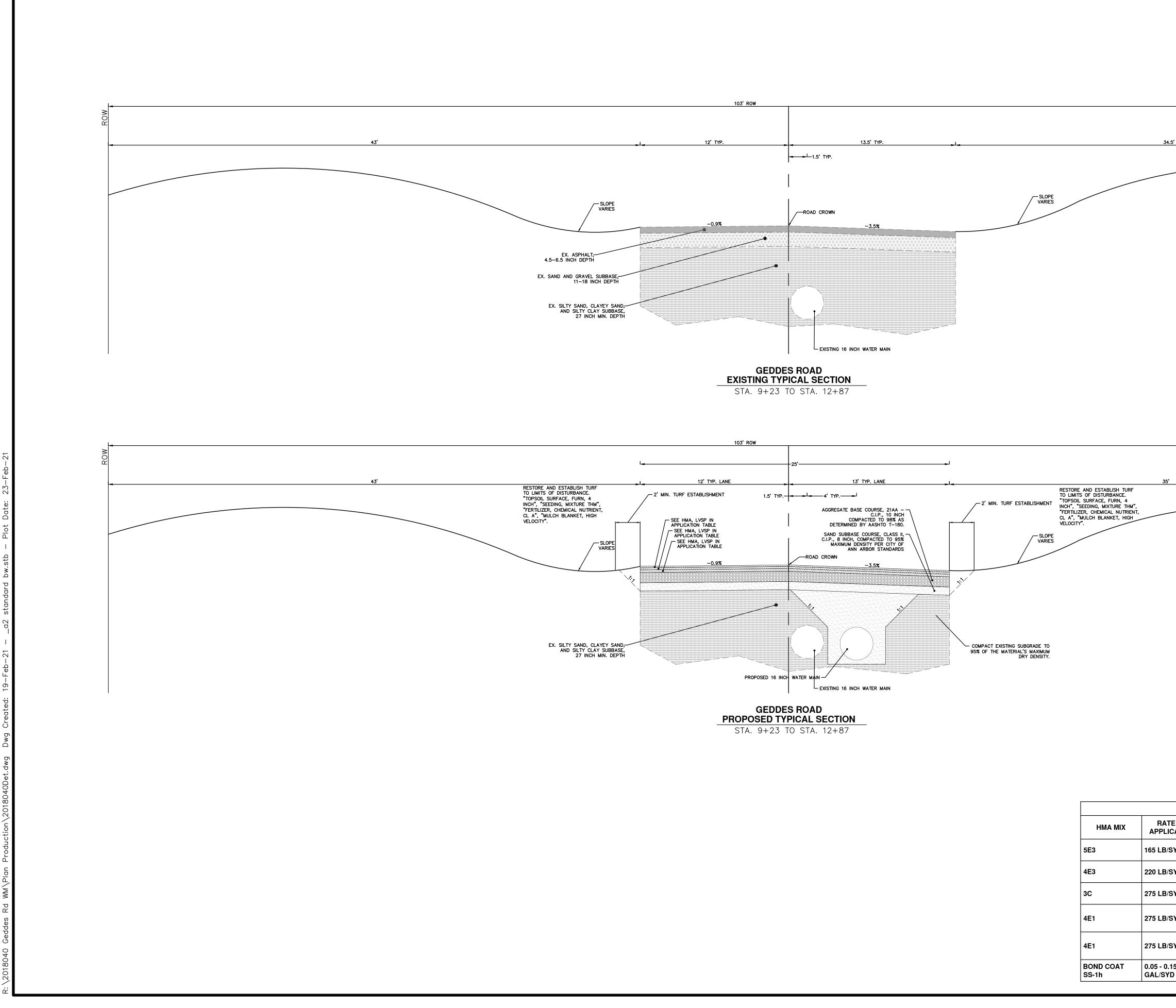




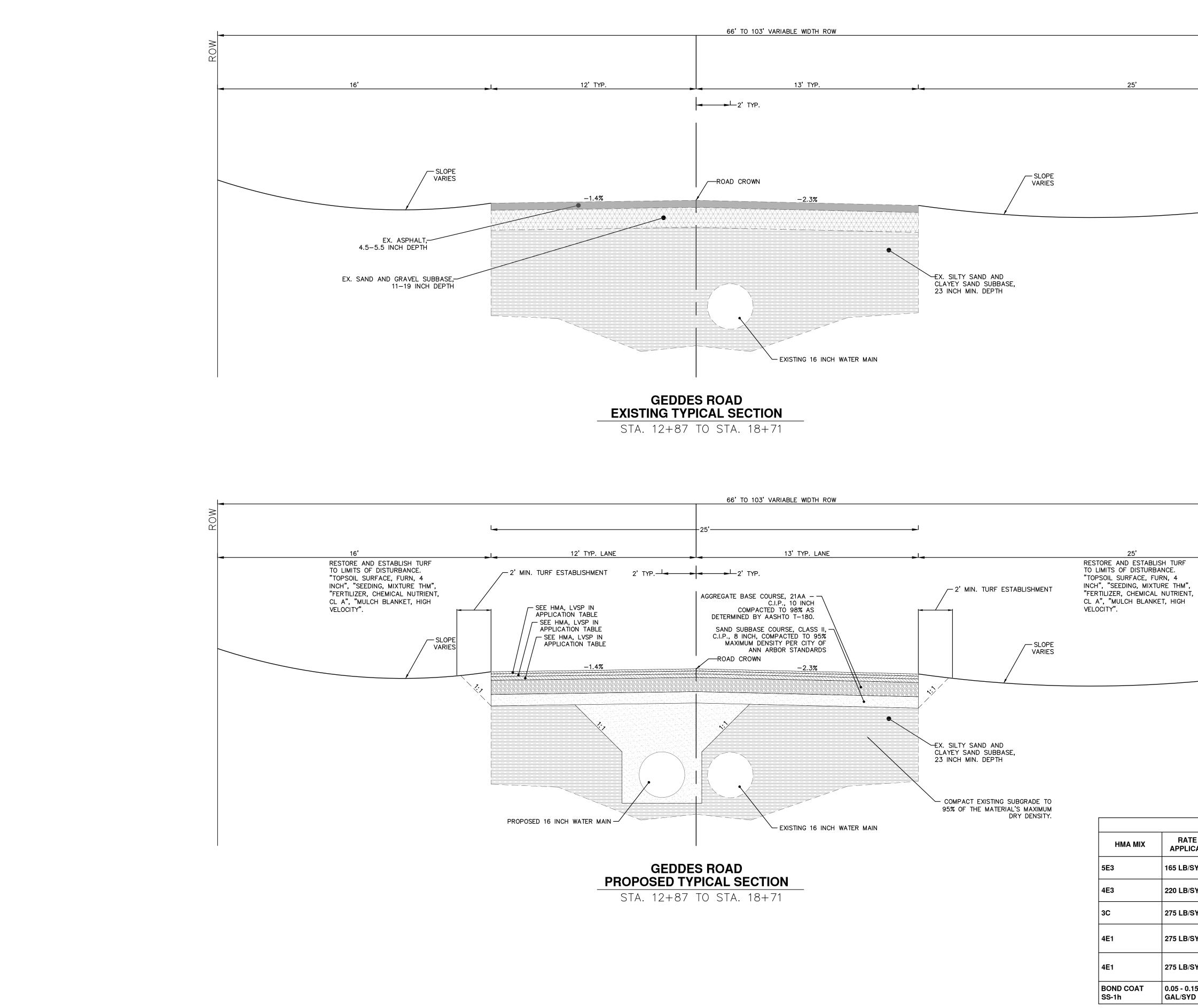
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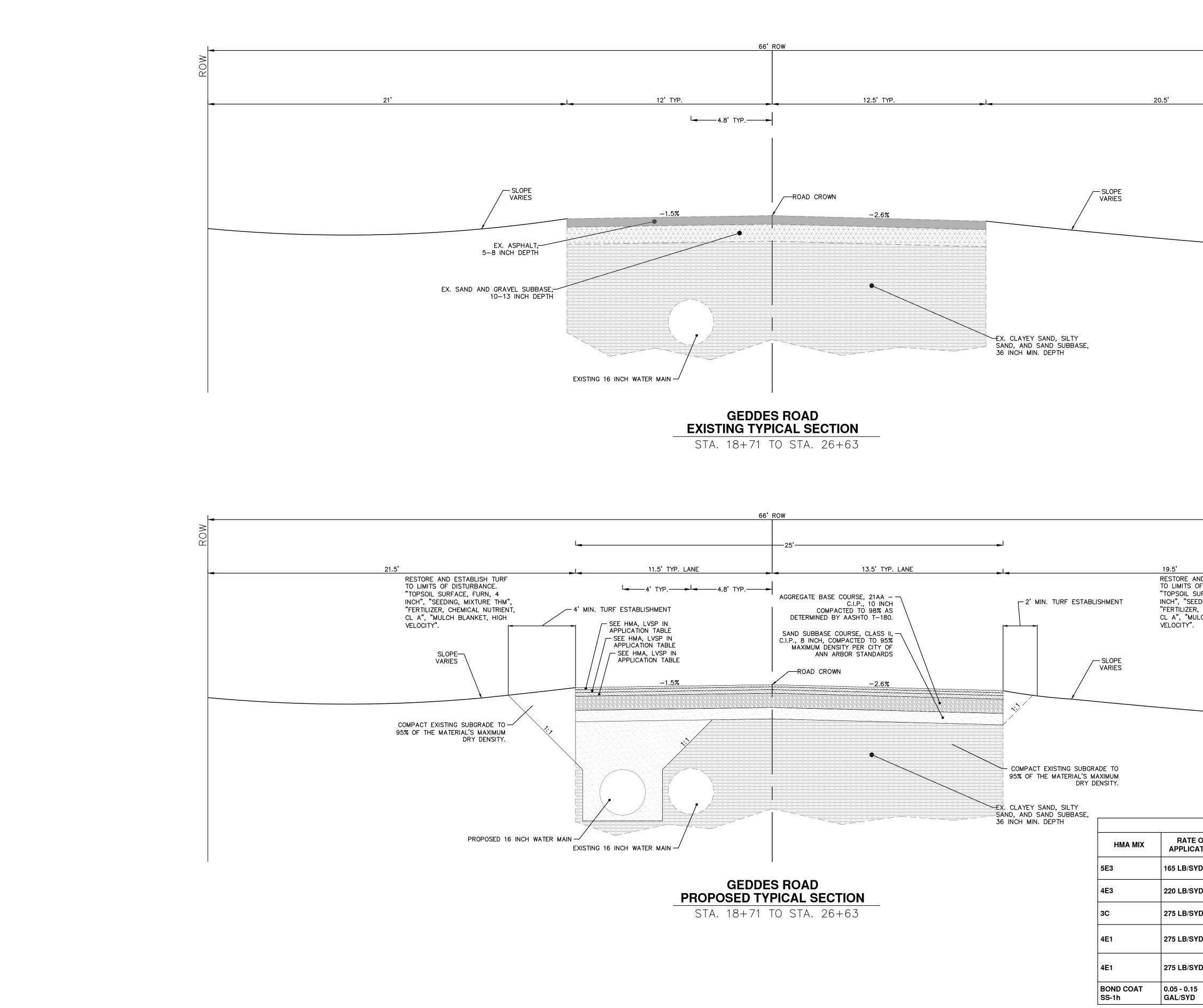
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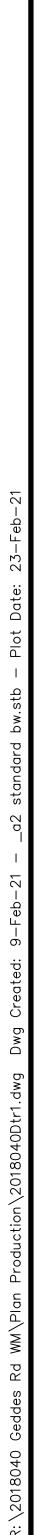
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5E3	165 LB/SYD	(INCHES) 1.5	260	64-28	TOP COURSE				
4E3	220 LB/SYD	2.0	-	64-28	LEVELING COURSE				
3C	275 LB/SYD	2.5	-	64-28	BASE COURSE				
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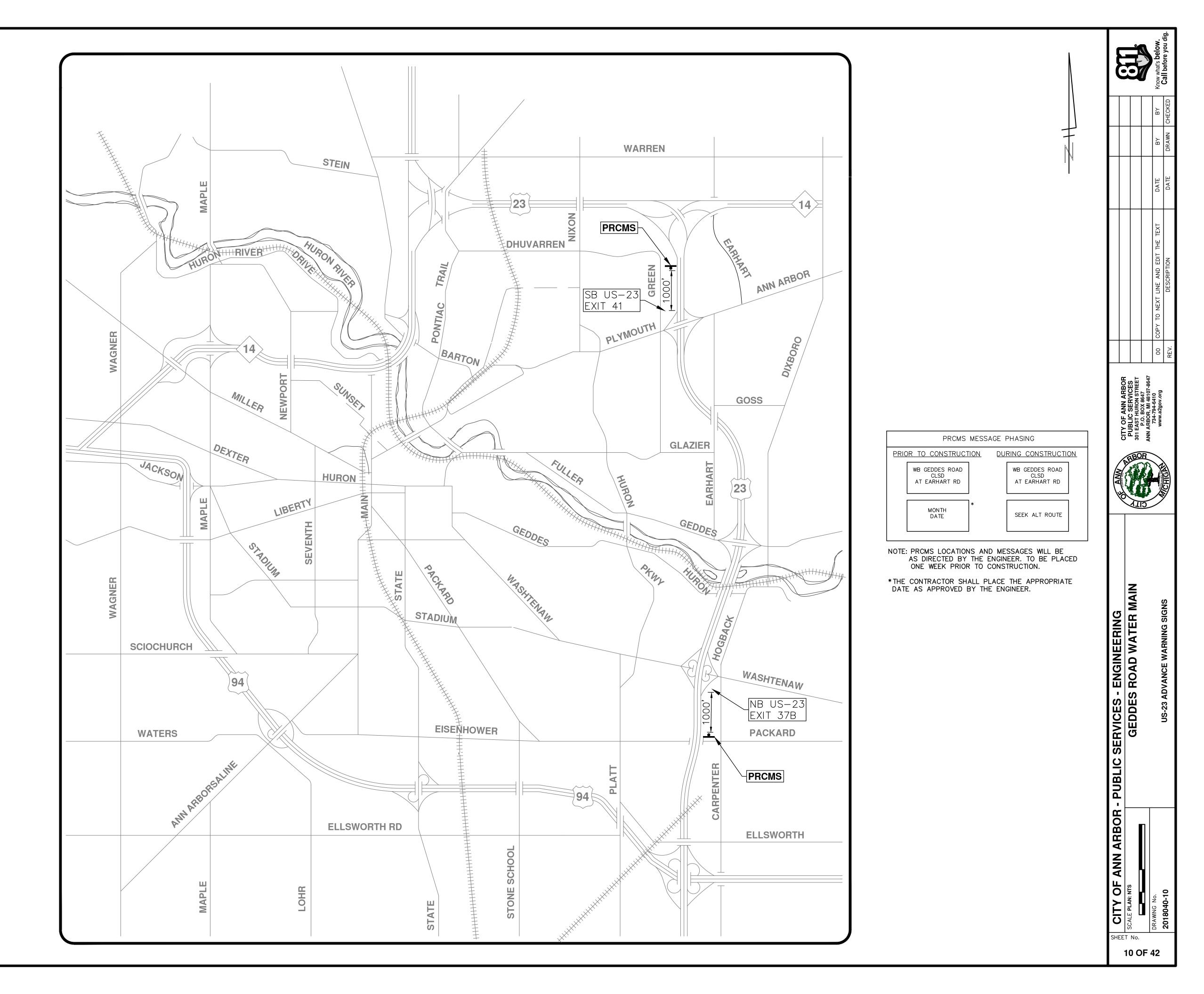


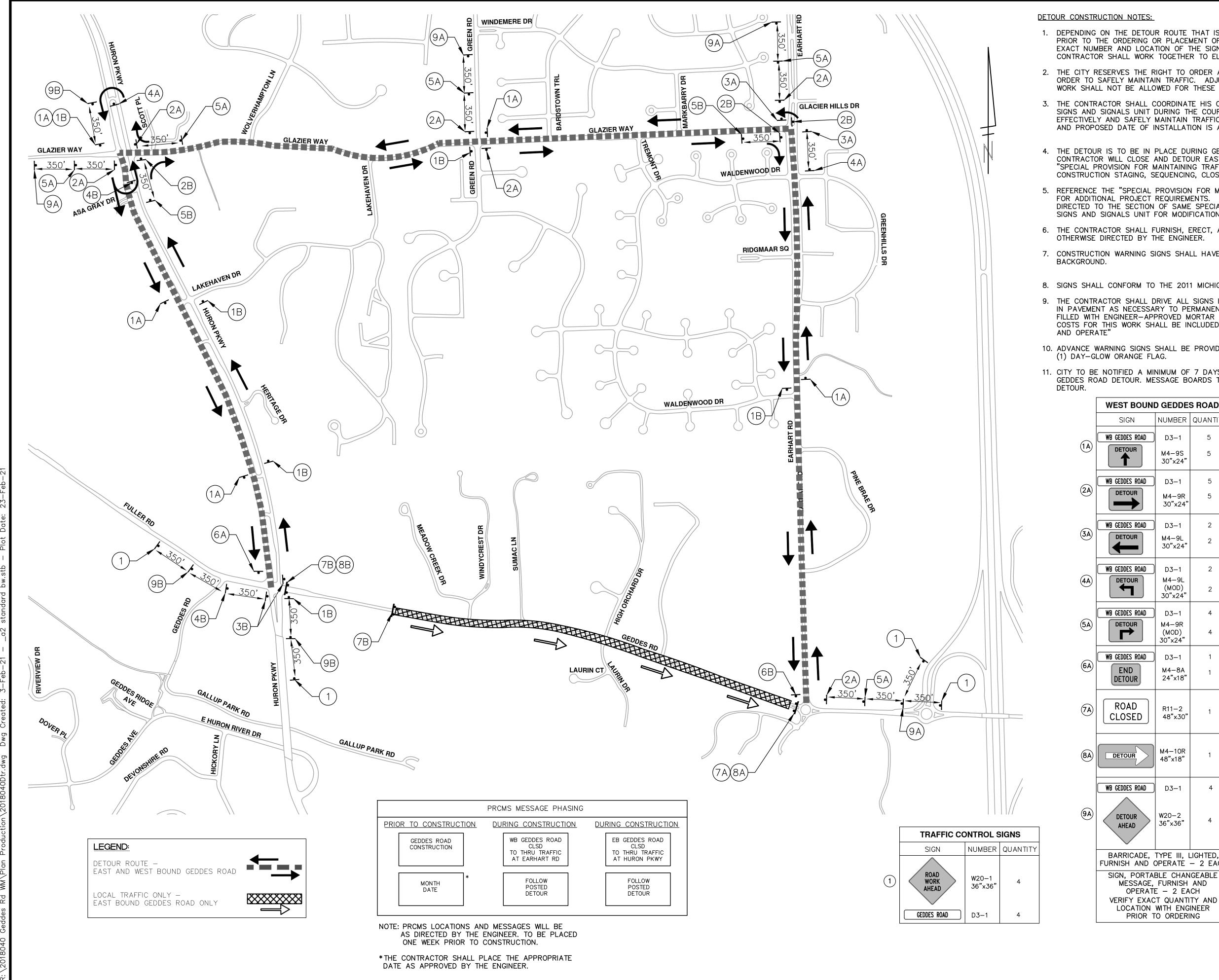
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1. DEPENDING ON THE DETOUR ROUTE THAT IS PUT IN PLACE, CONFLICTING SIGNS MAY BE PRESENT. PRIOR TO THE ORDERING OR PLACEMENT OF ANY SIGNS, MEET WITH THE ENGINEER TO VERIFY THE EXACT NUMBER AND LOCATION OF THE SIGNS TO BE PLACED. THE ENGINEER AND THE CONTRACTOR SHALL WORK TOGETHER TO ELIMINATE ALL CONFLICTS.

2. THE CITY RESERVES THE RIGHT TO ORDER ADDITIONAL SIGNS AND PLACE THEM INTO SERVICE IN ORDER TO SAFELY MAINTAIN TRAFFIC. ADJUSTMENTS IN THE UNIT PRICE FOR THESE ITEMS OF WORK SHALL NOT BE ALLOWED FOR THESE OCCURRENCES.

3. THE CONTRACTOR SHALL COORDINATE HIS OPERATIONS WITH THOSE OF THE CITY OF ANN ARBOR'S SIGNS AND SIGNALS UNIT DURING THE COURSE OF THE DETOUR ROUTE ESTABLISHMENT TO EFFECTIVELY AND SAFELY MAINTAIN TRAFFIC. DO NOT ERECT ANY SIGNS UNTIL ITS LOCATION AND PROPOSED DATE OF INSTALLATION IS APPROVED BY THE ENGINEER.

4. THE DETOUR IS TO BE IN PLACE DURING GEDDES ROAD. AS DIRECTED BY THE ENGINEER, THE CONTRACTOR WILL CLOSE AND DETOUR EAST AND WEST BOUND GEDDES ROAD TRAFFIC. SEE "SPECIAL PROVISION FOR MAINTAINING TRAFFIC AND CONSTRUCTION SEQUENCING" FOR DETAILS ON CONSTRUCTION STAGING, SEQUENCING, CLOSURE AND DETOUR LIMITATIONS, AND OTHER DETAILS.

5. REFERENCE THE "SPECIAL PROVISION FOR MAINTAINING TRAFFIC AND CONSTRUCTION SEQUENCING" FOR ADDITIONAL PROJECT REQUIREMENTS. THE CONTRACTOR'S ATTENTION IS SPECIFICALLY DIRECTED TO THE SECTION OF SAME SPECIAL PROVISION REGARDING COORDINATION WITH THE CITY SIGNS AND SIGNALS UNIT FOR MODIFICATIONS TO TRAFFIC SIGNALS FOR THE DETOUR.

6. THE CONTRACTOR SHALL FURNISH, ERECT, AND MAINTAIN SIGNS AS SHOWN ON THE PLANS OR OTHERWISE DIRECTED BY THE ENGINEER.

7. CONSTRUCTION WARNING SIGNS SHALL HAVE AN ORANGE, HIGH-INTENSITY, REFLECTORIZED

8. SIGNS SHALL CONFORM TO THE 2011 MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

9. THE CONTRACTOR SHALL DRIVE ALL SIGNS INTO EXPOSED GROUND OR INSERT INTO A BORED HOLE IN PAVEMENT AS NECESSARY TO PERMANENTLY SECURE. ALL HOLES IN PAVEMENT SHALL BE FILLED WITH ENGINEER-APPROVED MORTAR WHEN THE SIGN IS REMOVED AND NO LONGER NEEDED. COSTS FOR THIS WORK SHALL BE INCLUDED IN THE PAY ITEM "TEMPORARY SIGN, TYPE B, FURNISH

10. ADVANCE WARNING SIGNS SHALL BE PROVIDED WITH TWO (2) TYPE A FLASHING LIGHTS AND ONE

11. CITY TO BE NOTIFIED A MINIMUM OF 7 DAYS PRIOR TO IMPLEMENTING EAST AND WEST BOUND GEDDES ROAD DETOUR. MESSAGE BOARDS TO BE PLACED 7 DAYS PRIOR TO IMPLEMENTATION OF

(1B)

SIGN

EB GEDDES ROAD

DETOUR

EAST BOUND GEDDES ROAD

D3-1

M4-9S 30"x24"

NUMBER QUANTITY

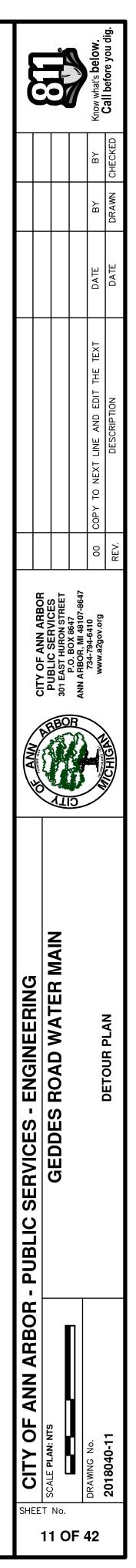
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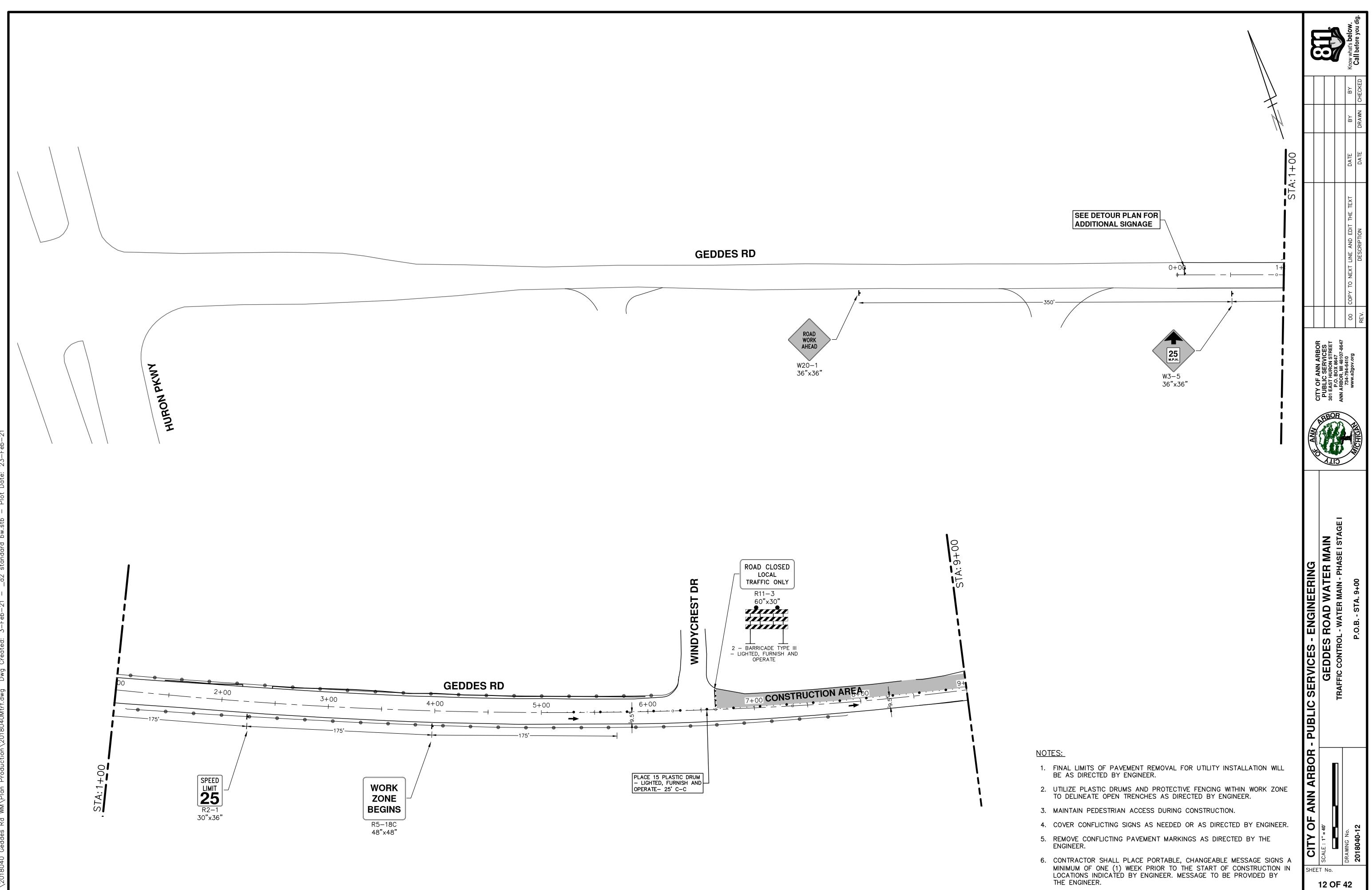
) GEDDE	S ROAD
SIGN	NUMBER	QUANTITY
WB GEDDES ROAD	D3-1	5
DETOUR	M4-9S 30"x24"	5
WB GEDDES ROAD	D3-1	5
	M4-9R 30"x24"	5
WB GEDDES ROAD	D3-1	2
	M4-9L 30"x24"	2
VB GEDDES ROAD	D3-1	2
	M4-9L (MOD) 30"x24"	2
WB GEDDES ROAD	D3-1	4
	M4-9R (MOD) 30"x24"	4
WB GEDDES ROAD	D3-1	1
END DETOUR	M4-8A 24"x18"	1
ROAD CLOSED	R11-2 48"x30"	1
DETOUR	M4–10R 48"x18"	1
WB GEDDES ROAD	D3-1	4
DETOUR AHEAD	W20-2 36"x36"	4
BARRICADE, JRNISH AND (TYPE III, L DPERATE	LIGHTED, — 2 EACH

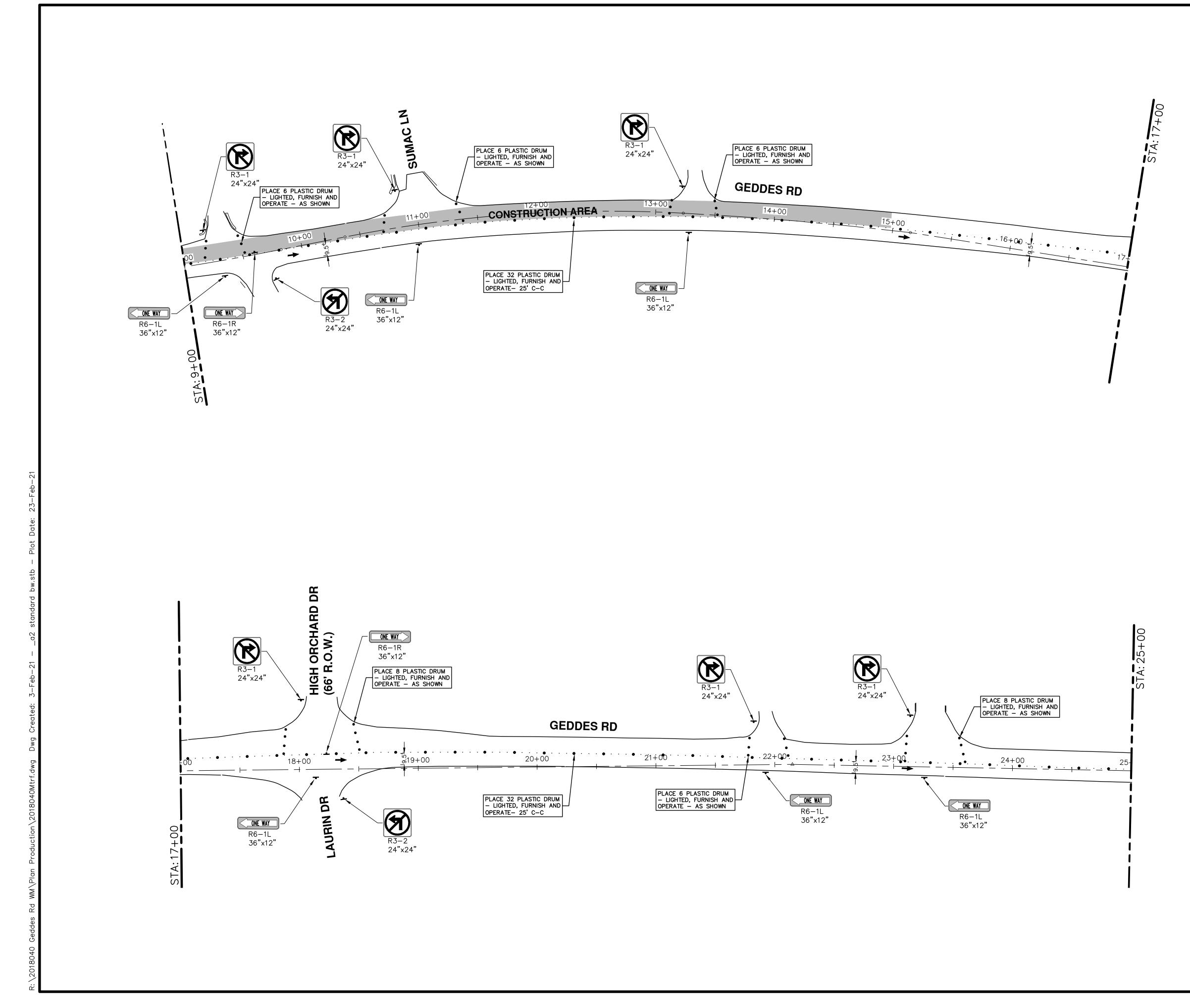
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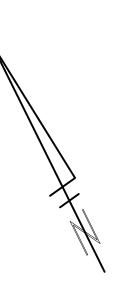
2B)	EB GEDDES ROAD	D3-1	3
9		M4-9R 30"x24"	3
	EB GEDDES ROAD	D3-1	2
B)	DETOUR	M4-9L 30"x24"	2
~	EB GEDDES ROAD	D3-1	2
.B)		M4-9L (MOD) 30"x24"	2
~	EB GEDDES ROAD	D3-1	2
B	DETOUR	M4-9R (MOD) 30"x24"	2
<u>.</u>	EB GEDDES ROAD	D3-1	1
SB)	END DETOUR	M4-8A 24"x18"	1
B)	ROAD CLOSED LOCAL TRAFFIC ONLY	R11-3 60"x30"	2
BB	DETOUR	M4–10L 48"x18"	1
	EB GEDDES ROAD	D3–1	3
B	DETOUR AHEAD	W20-2 36"x36"	3
	BARRICADE, FURNISH AND (TYPE III, I DPERATE	LIGHTED, - 2 EACH
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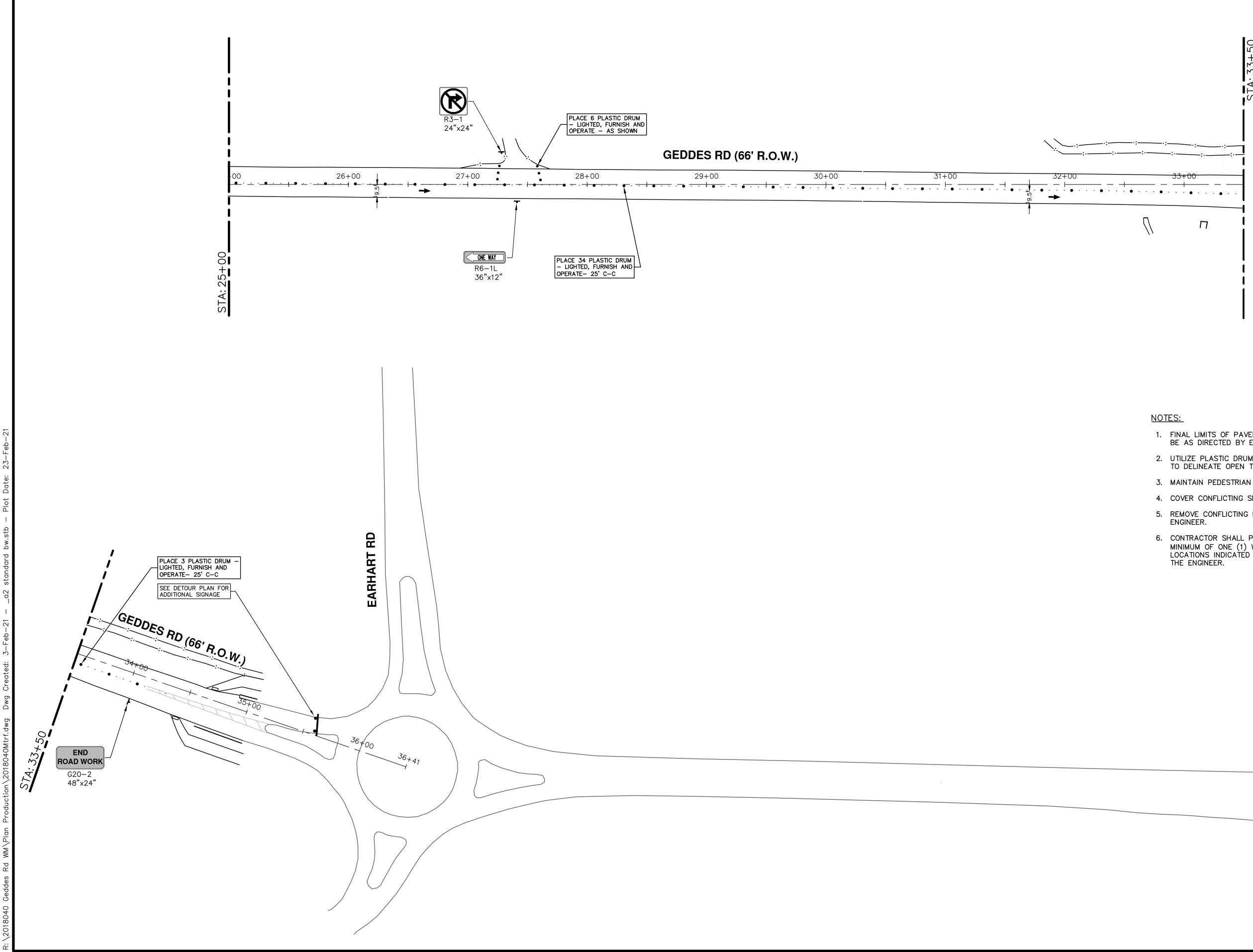


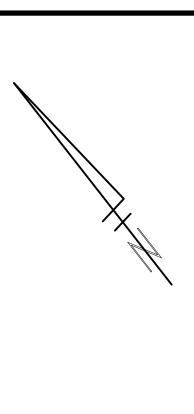


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3 C	No.	GEDDES ROAD WALER MAIN	1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2						
DF		TRAFFIC CONTROL - WATER MAIN - PHASE I STAGE I	O P.O. BOX 8647 ANN ARBOR. MI 48107-8647						
42	DRAWING No.		734-794-6410	00	00 COPY TO NEXT LINE AND EDIT THE TEXT	DATE	BY	BY	Know what's below.
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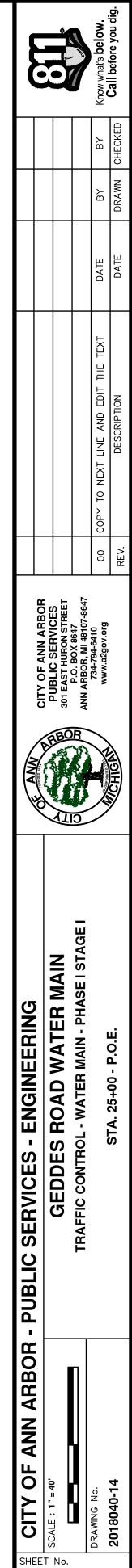


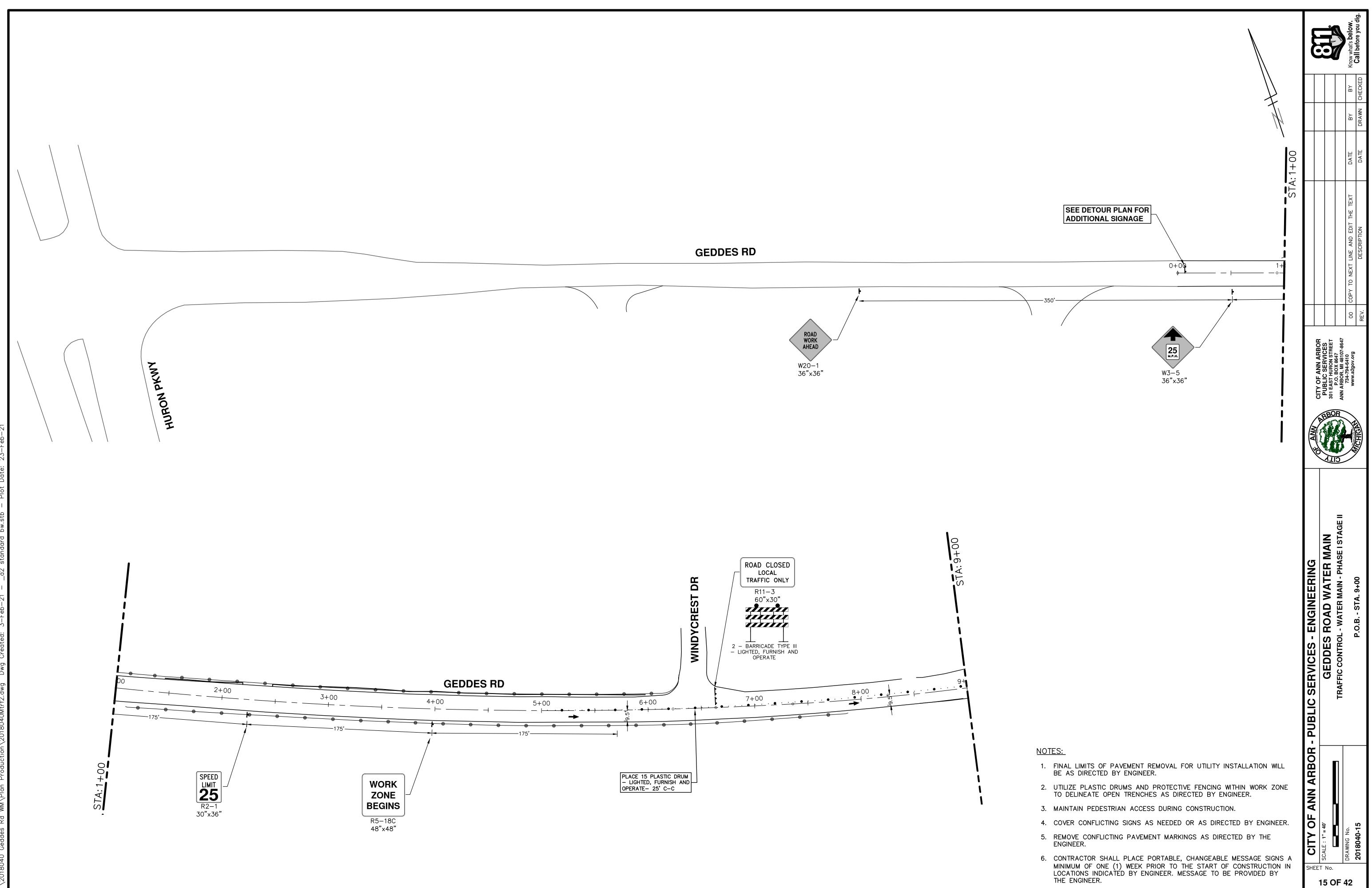
- 1. FINAL LIMITS OF PAVEMENT REMOVAL FOR UTILITY INSTALLATION WILL BE AS DIRECTED BY ENGINEER.
- 2. UTILIZE PLASTIC DRUMS AND PROTECTIVE FENCING WITHIN WORK ZONE TO DELINEATE OPEN TRENCHES AS DIRECTED BY ENGINEER.
- 3. MAINTAIN PEDESTRIAN ACCESS DURING CONSTRUCTION.
- 4. COVER CONFLICTING SIGNS AS NEEDED 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.

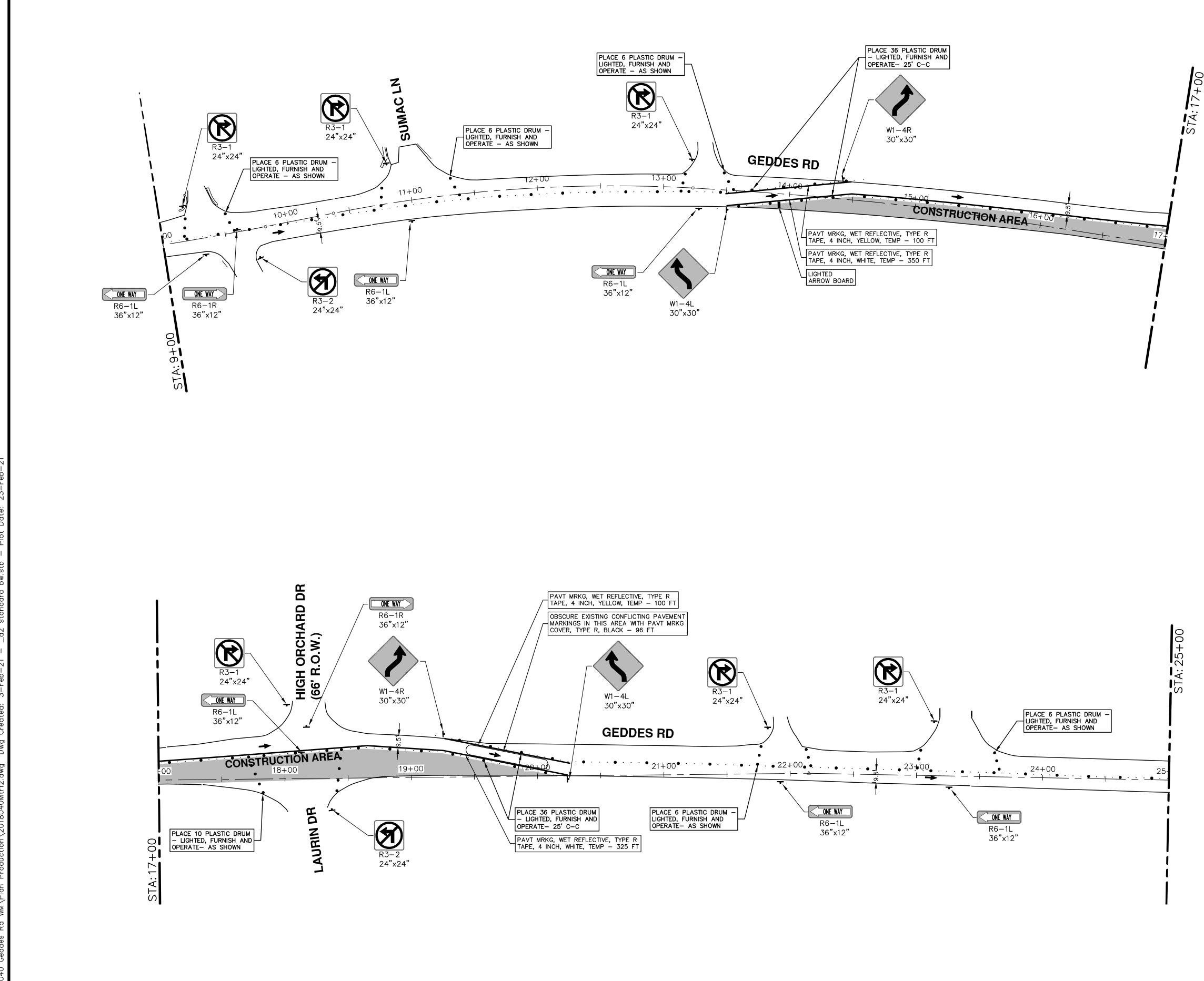




- 1. FINAL LIMITS OF PAVEMENT REMOVAL FOR UTILITY INSTALLATION WILL BE AS DIRECTED BY ENGINEER.
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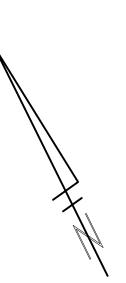




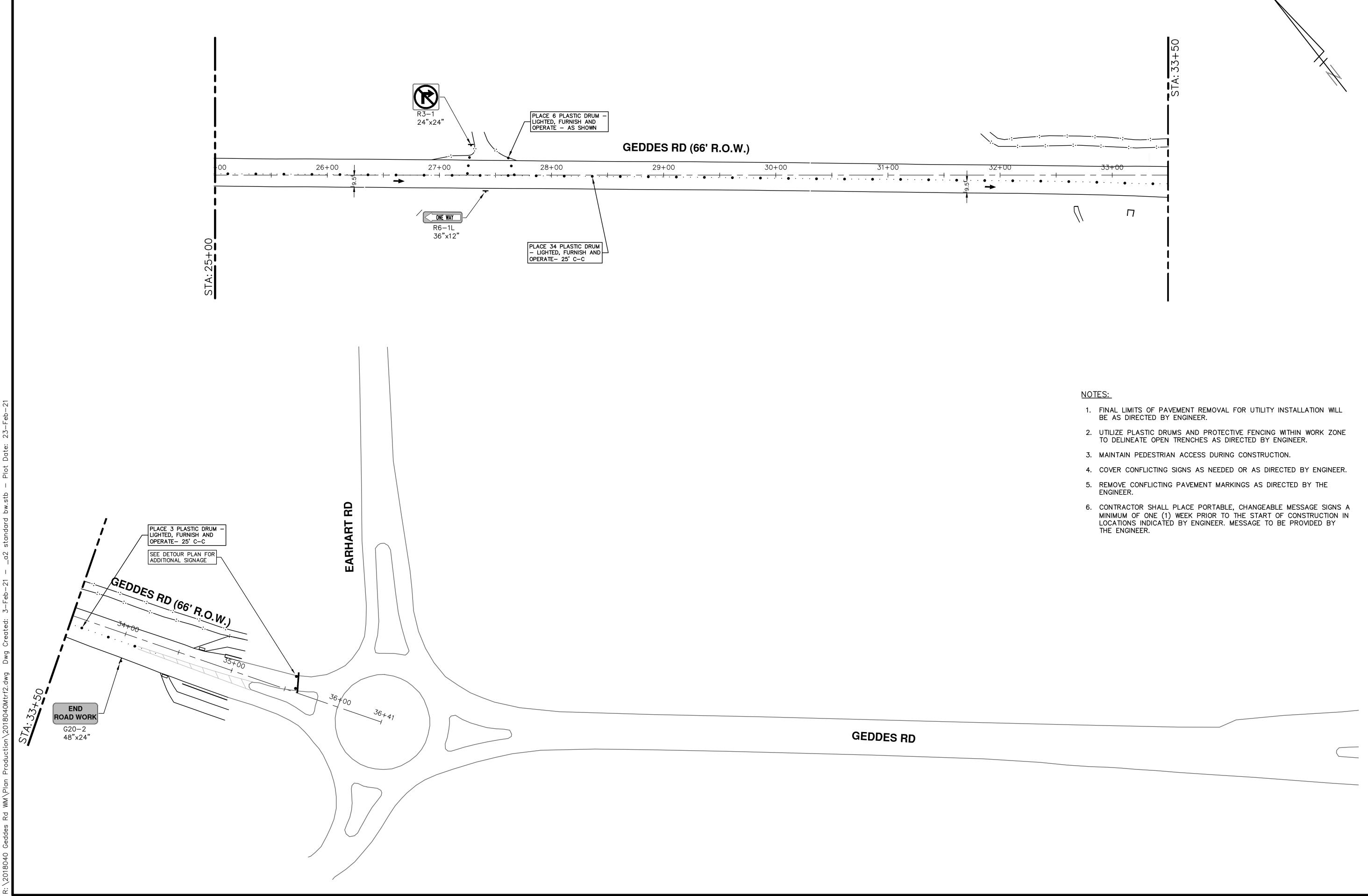


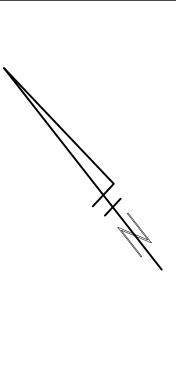
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ΟF		TRAFFIC CONTROL - WATER MAIN - PHASF I STAGE II							
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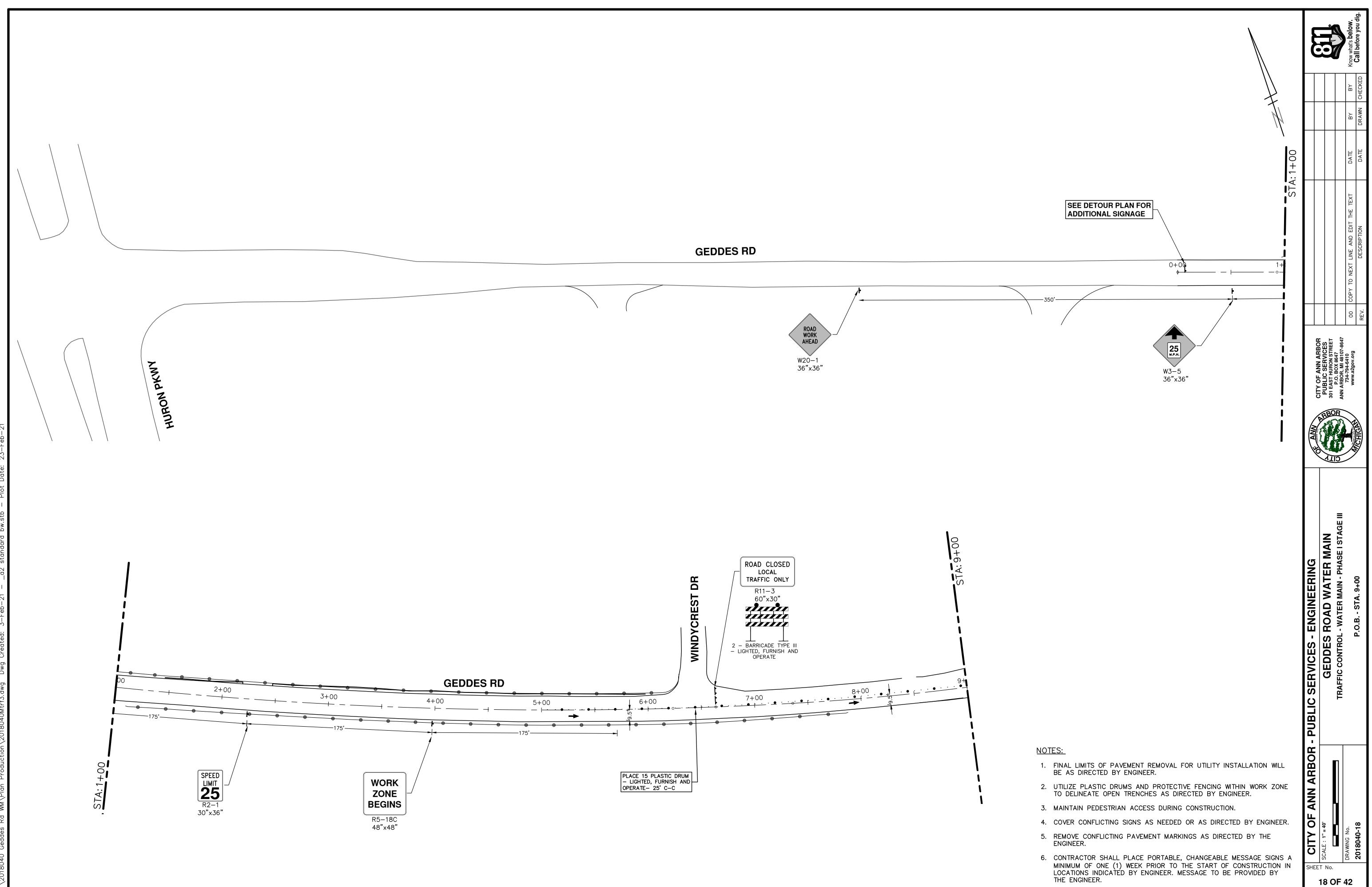


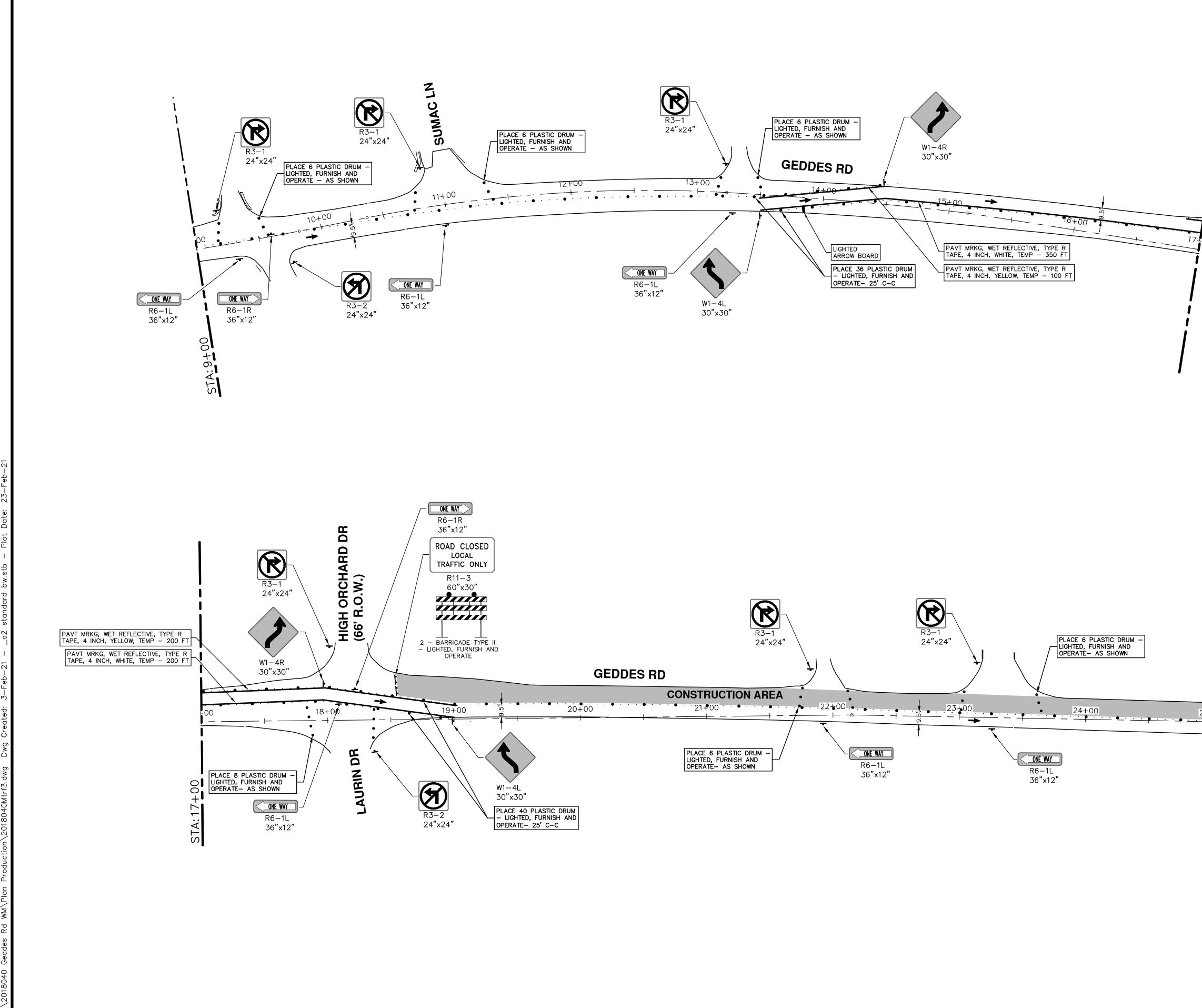
- 1. FINAL LIMITS OF PAVEMENT REMOVAL FOR UTILITY INSTALLATION WILL BE AS DIRECTED BY ENGINEER.
- 2. UTILIZE PLASTIC DRUMS AND PROTECTIVE FENCING WITHIN WORK ZONE TO DELINEATE OPEN TRENCHES AS DIRECTED BY ENGINEER.
- 3. MAINTAIN PEDESTRIAN ACCESS DURING CONSTRUCTION.
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AND H۳ Z NN ARBOR SERVICES JRON STREET 0X 8647 MI 48107 or 11 CITY PUE 301 E/ = CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING SCALE : 1" = 40 SCALE : 1" = 40 TRAFFIC CONTROL - WATER MAIN TRAFFIC CONTROL - WATER MAIN - PHASE I STAGE . P.O.E. STA. 25+00 DRAWING No. 2018040-17





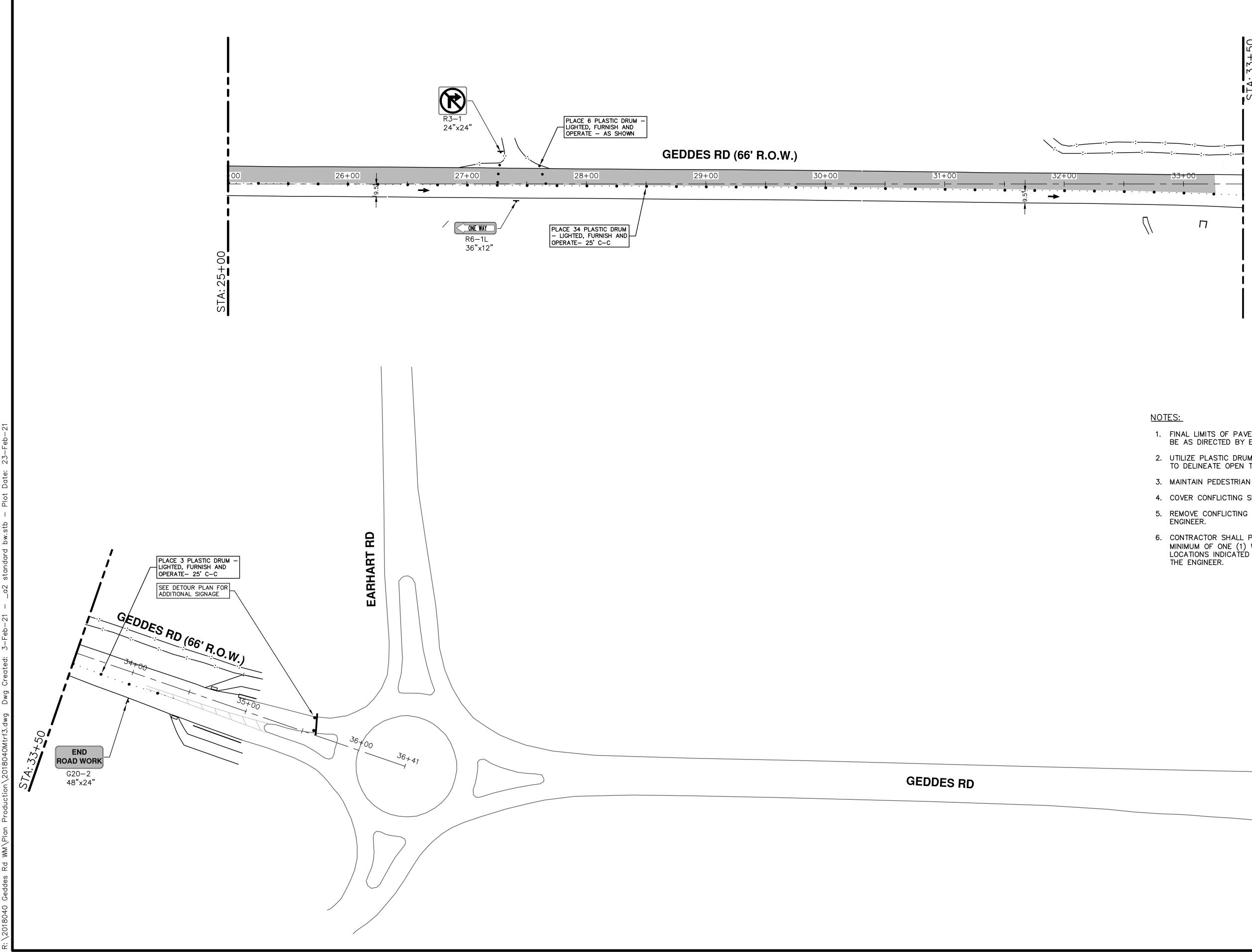
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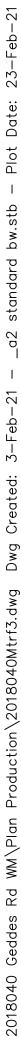
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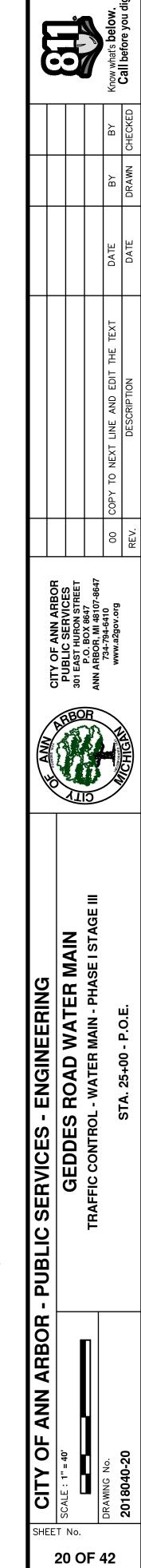
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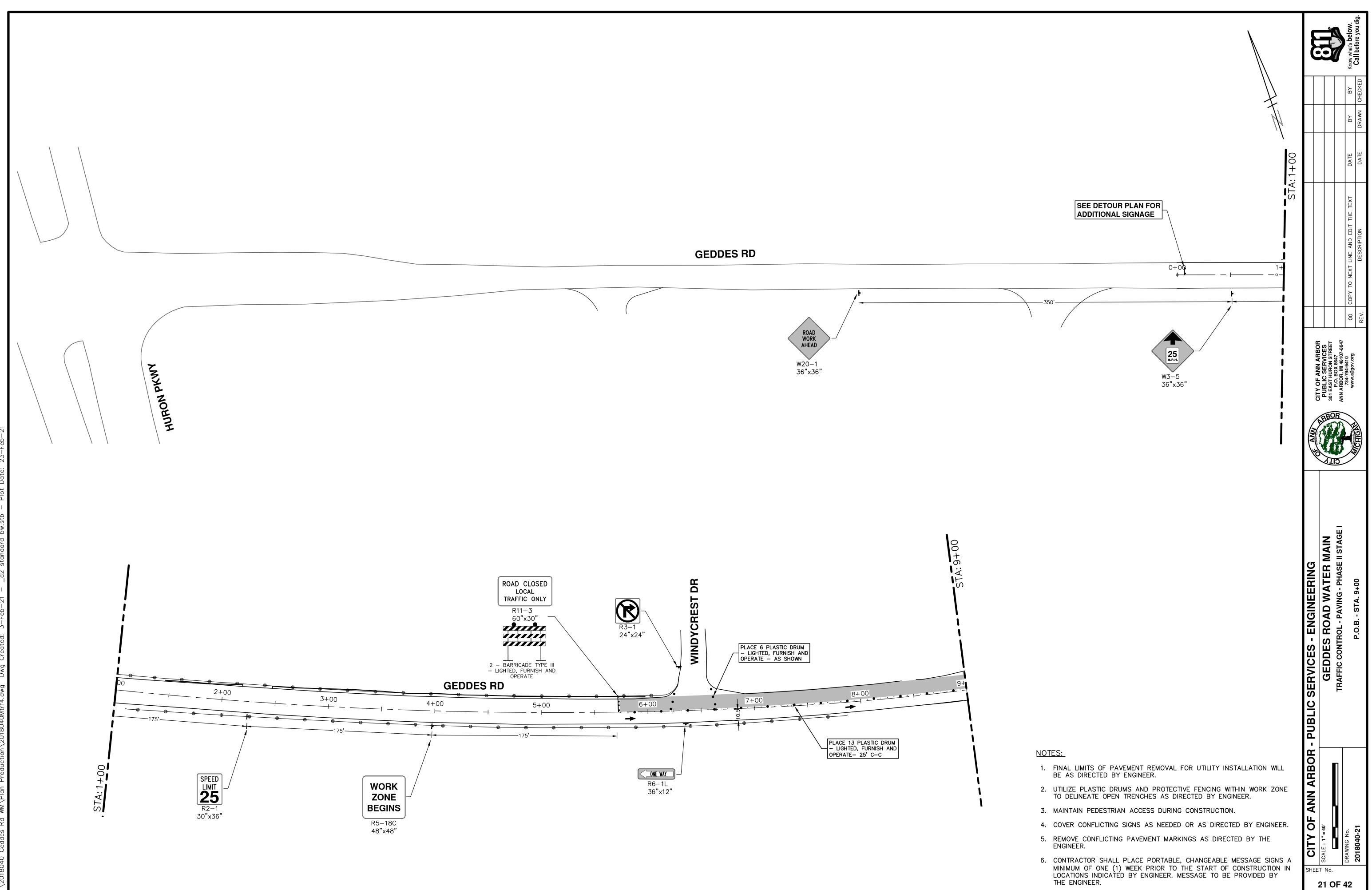
- 1. FINAL LIMITS OF PAVEMENT REMOVAL FOR UTILITY INSTALLATION WILL BE AS DIRECTED BY ENGINEER.
- 2. UTILIZE PLASTIC DRUMS AND PROTECTIVE FENCING WITHIN WORK ZONE TO DELINEATE OPEN TRENCHES AS DIRECTED BY ENGINEER.
- 3. MAINTAIN PEDESTRIAN ACCESS DURING CONSTRUCTION.
- 4. COVER CONFLICTING SIGNS AS NEEDED OR AS DIRECTED BY ENGINEER.
- 5. REMOVE CONFLICTING PAVEMENT MARKINGS AS DIRECTED BY THE ENGINEER.
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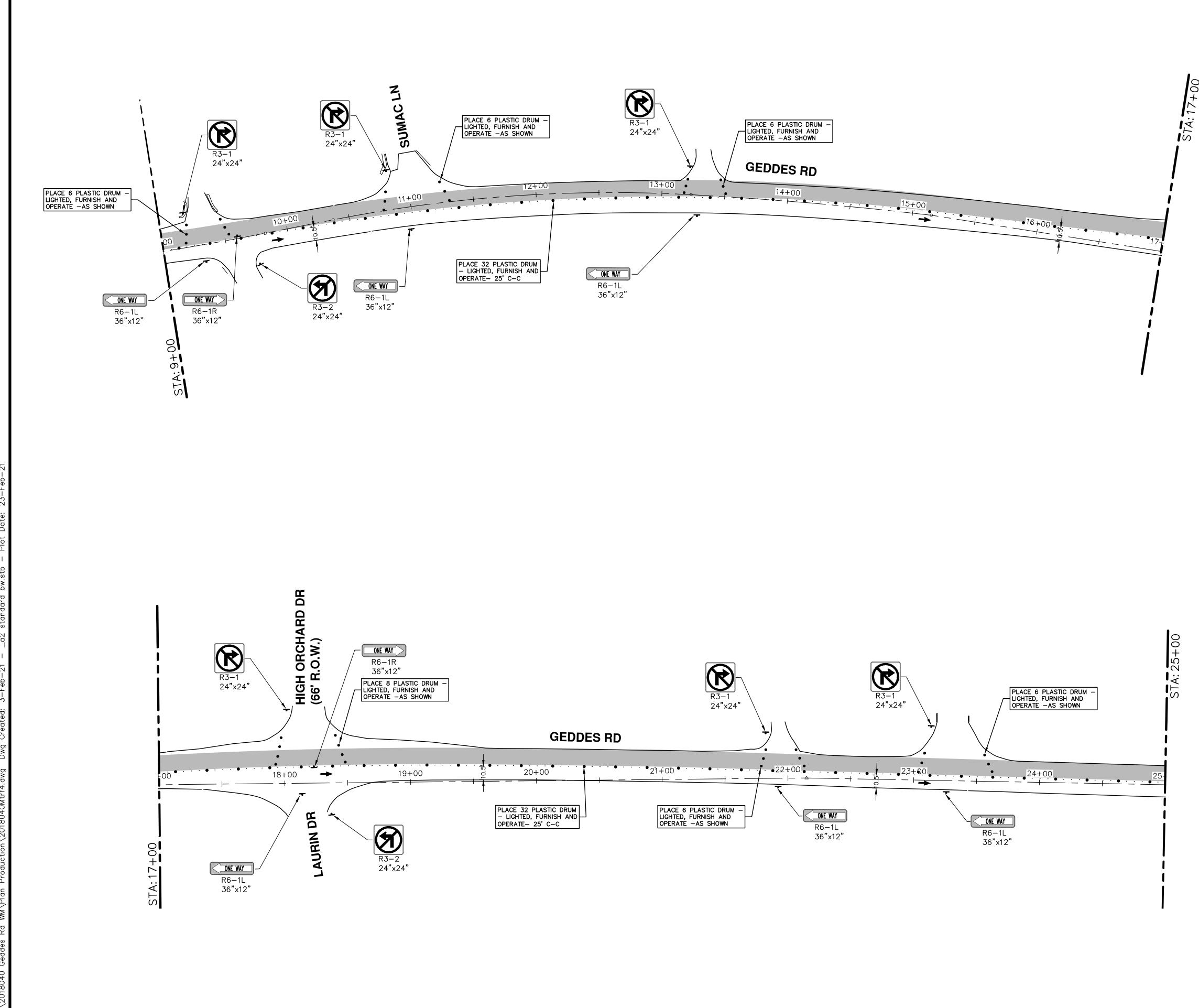




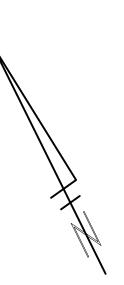
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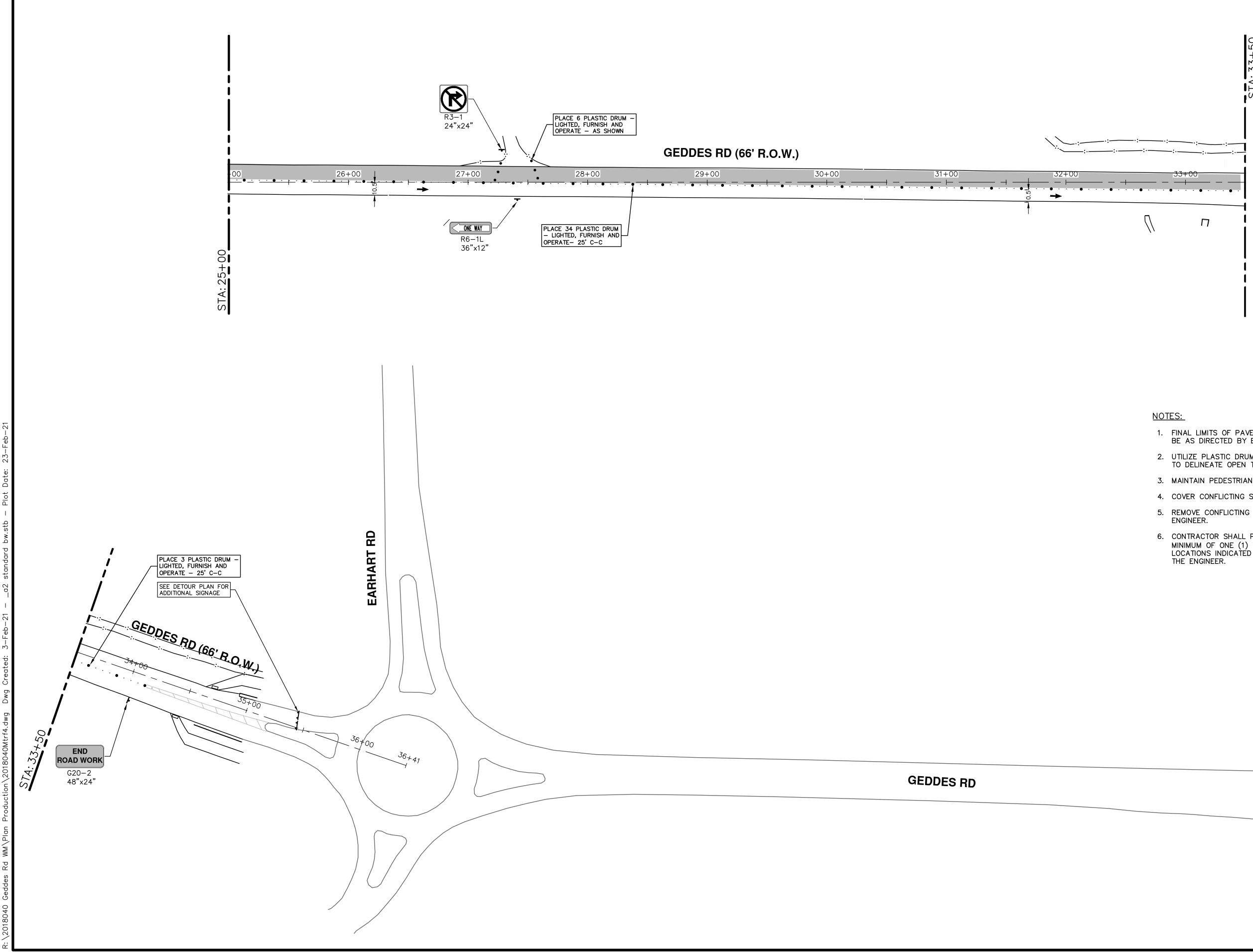


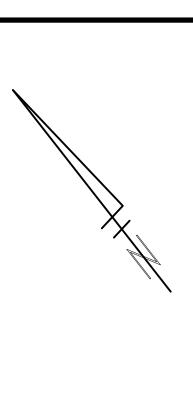


эН	III CITY OF ANN ARBOR -	ARBOR - PUBLIC SERVICES - ENGINEERING	ANA						
⊤ 22	H SCALF · 1" = 40'								
		GEDDES ROAD WALEK MAIN							
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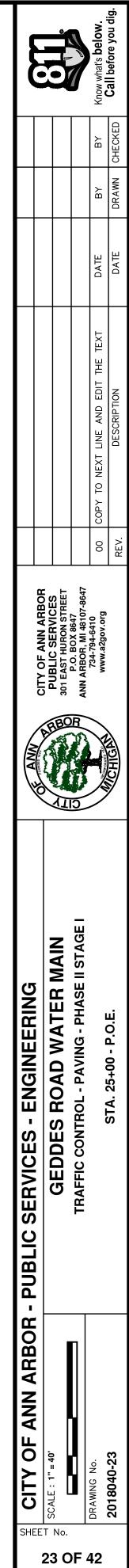


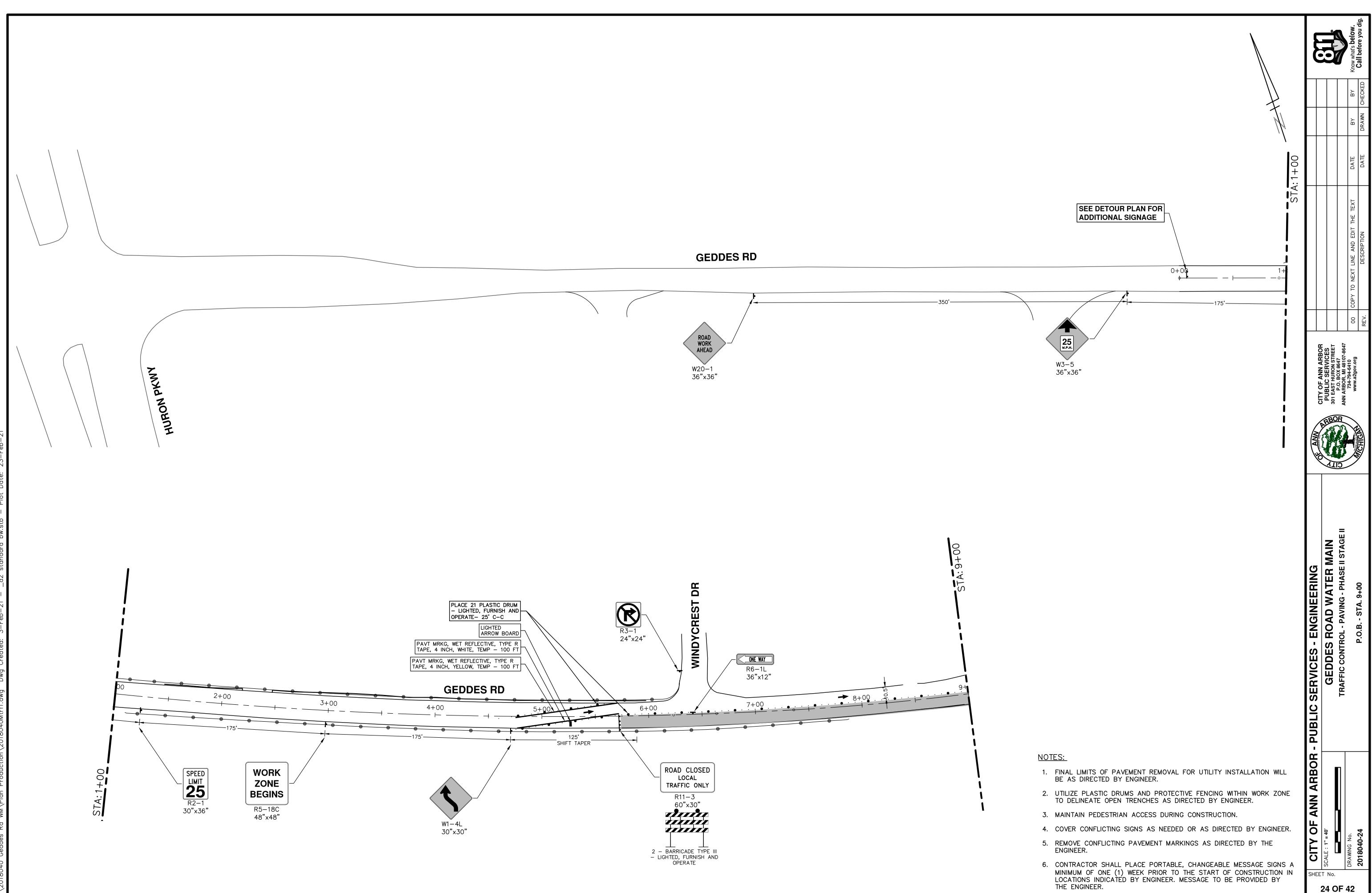
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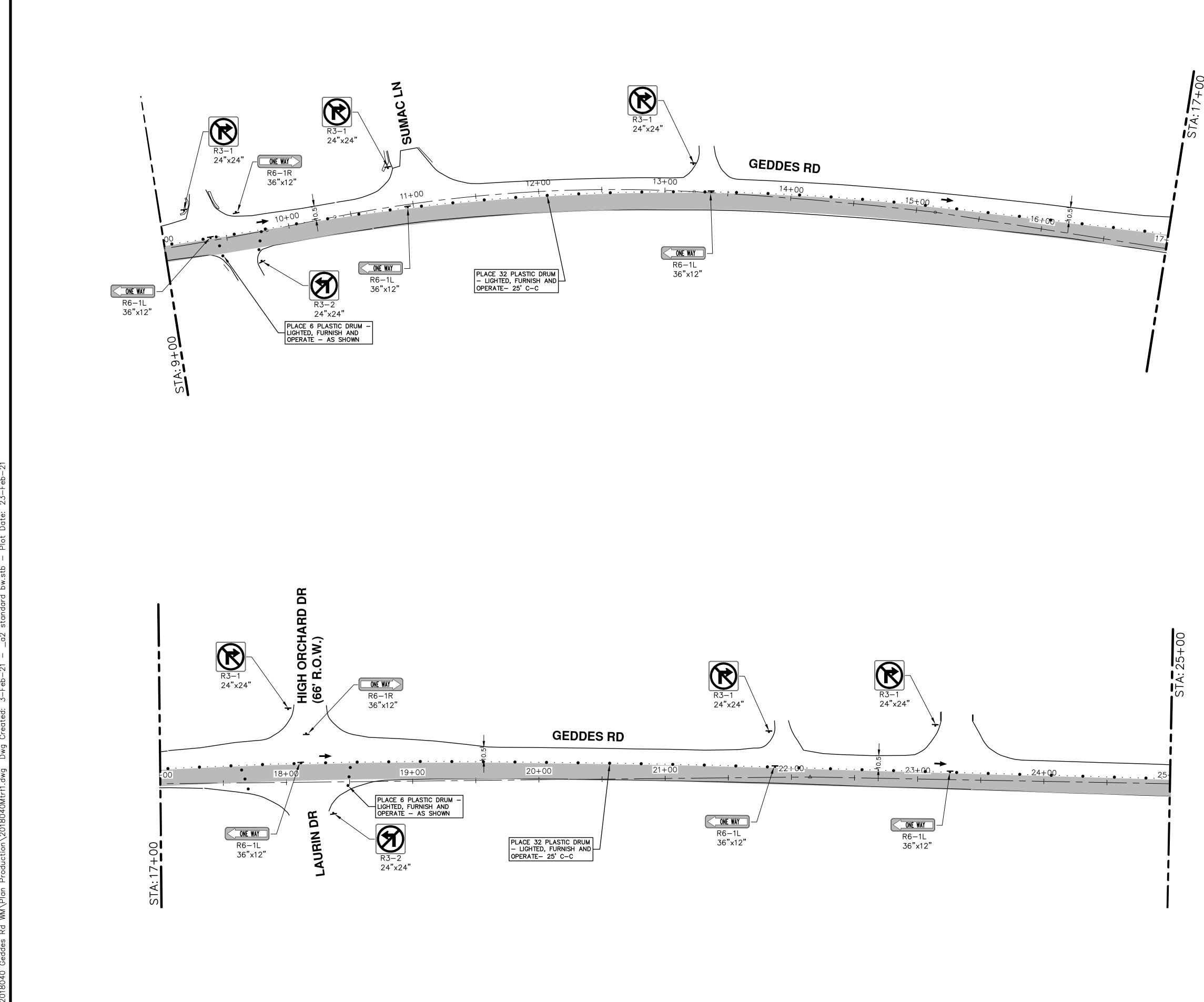




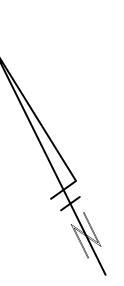
- 1. FINAL LIMITS OF PAVEMENT REMOVAL FOR UTILITY INSTALLATION WILL BE AS DIRECTED BY ENGINEER.
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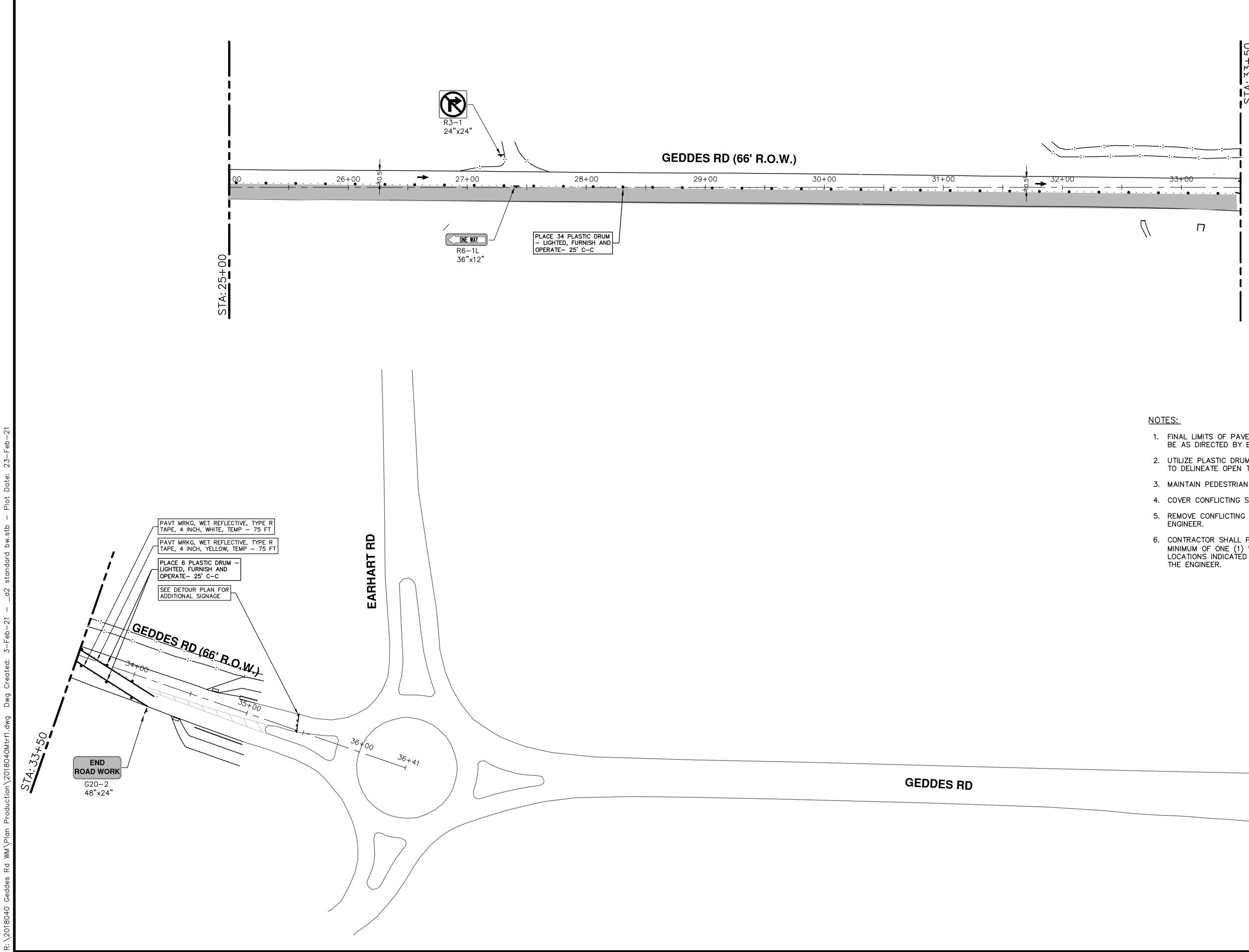




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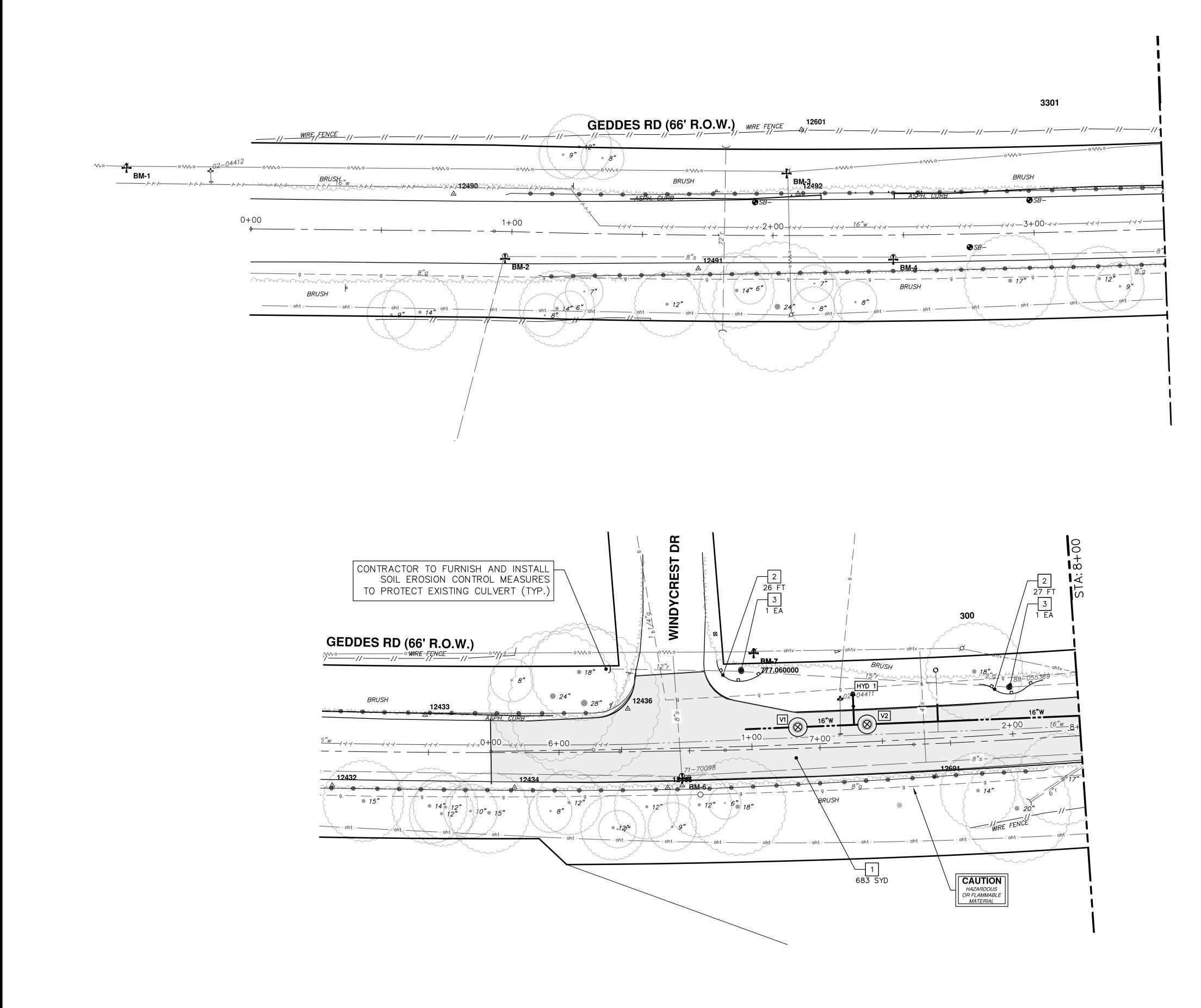
- 1. FINAL LIMITS OF PAVEMENT REMOVAL FOR UTILITY INSTALLATION WILL BE AS DIRECTED BY ENGINEER.
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AND H۳ NN ARBOR SERVICES IRON STREET 2X 8647 MI 4847 CITY PUI 301 E. CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING Scale : 1" = 40 Scale : 1" = 40 TRAFFIC CONTROL - PAVING - PHASE II STAGE II TRAFFIC CONTROL - PAVING - PHASE II STAGE II 25+00 - P.O.E. STA.

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- 1. FINAL LIMITS OF PAVEMENT REMOVAL FOR UTILITY INSTALLATION WILL BE AS DIRECTED BY ENGINEER.
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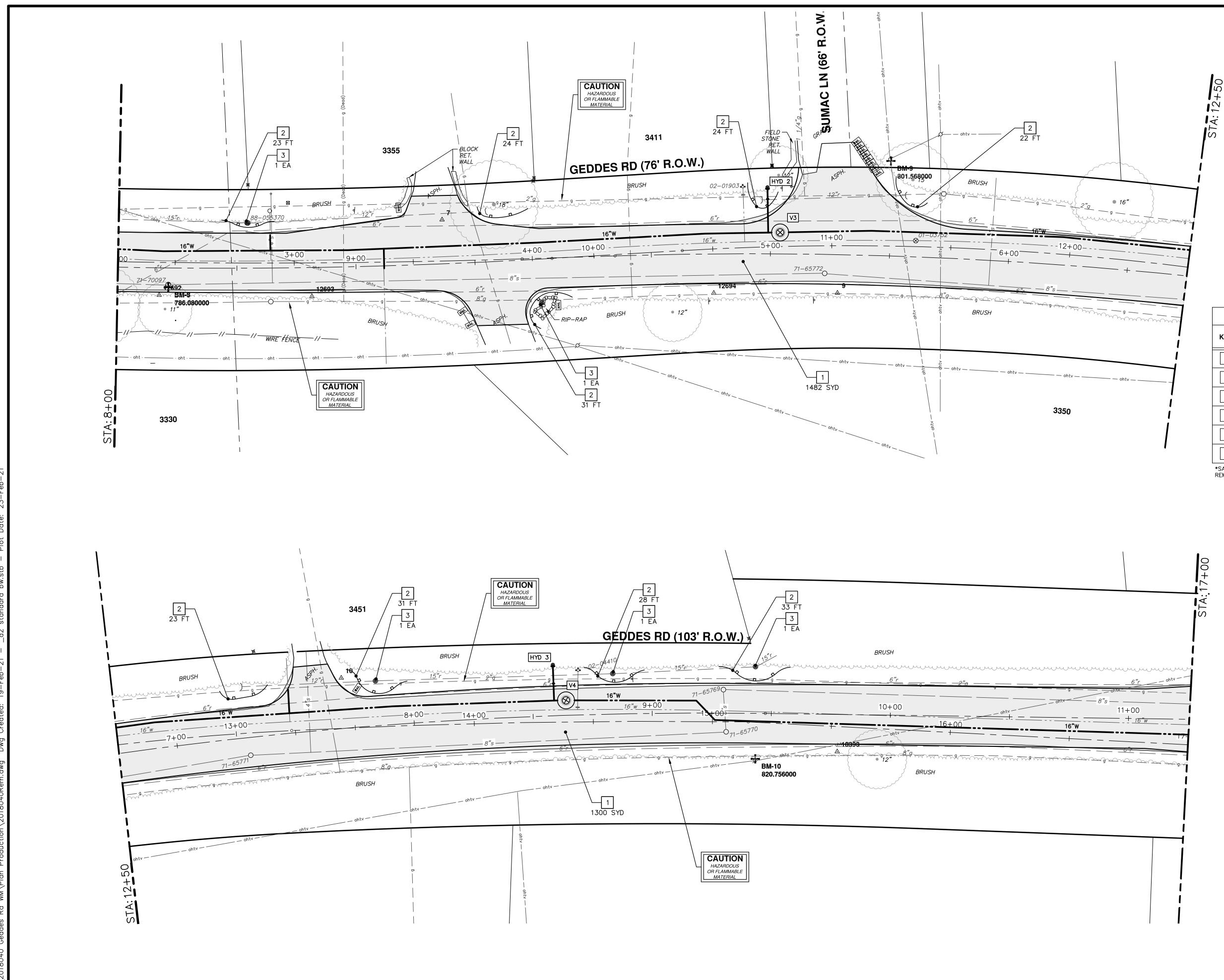


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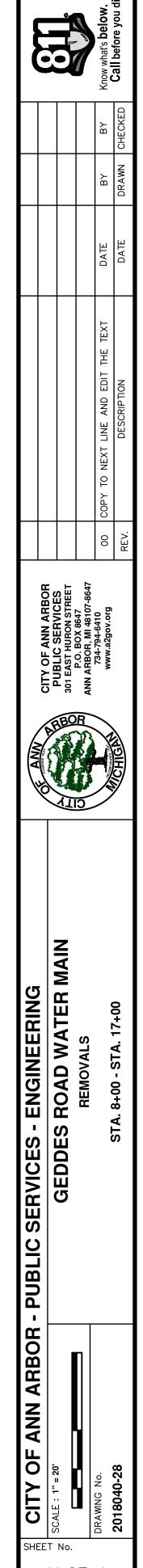
	REMOVAL KEY
KEY	DESCRIPTION
1	PAVT, REM *
2	SILT FENCE
3	INLET FILTER
4	PROTECTIVE FENCING
5	TREE REMOVAL, 8" AND LARGER
6	DR STRUCTURE, REM

*SAWCUT FULL DEPTH AT REMOVAL LIMITS

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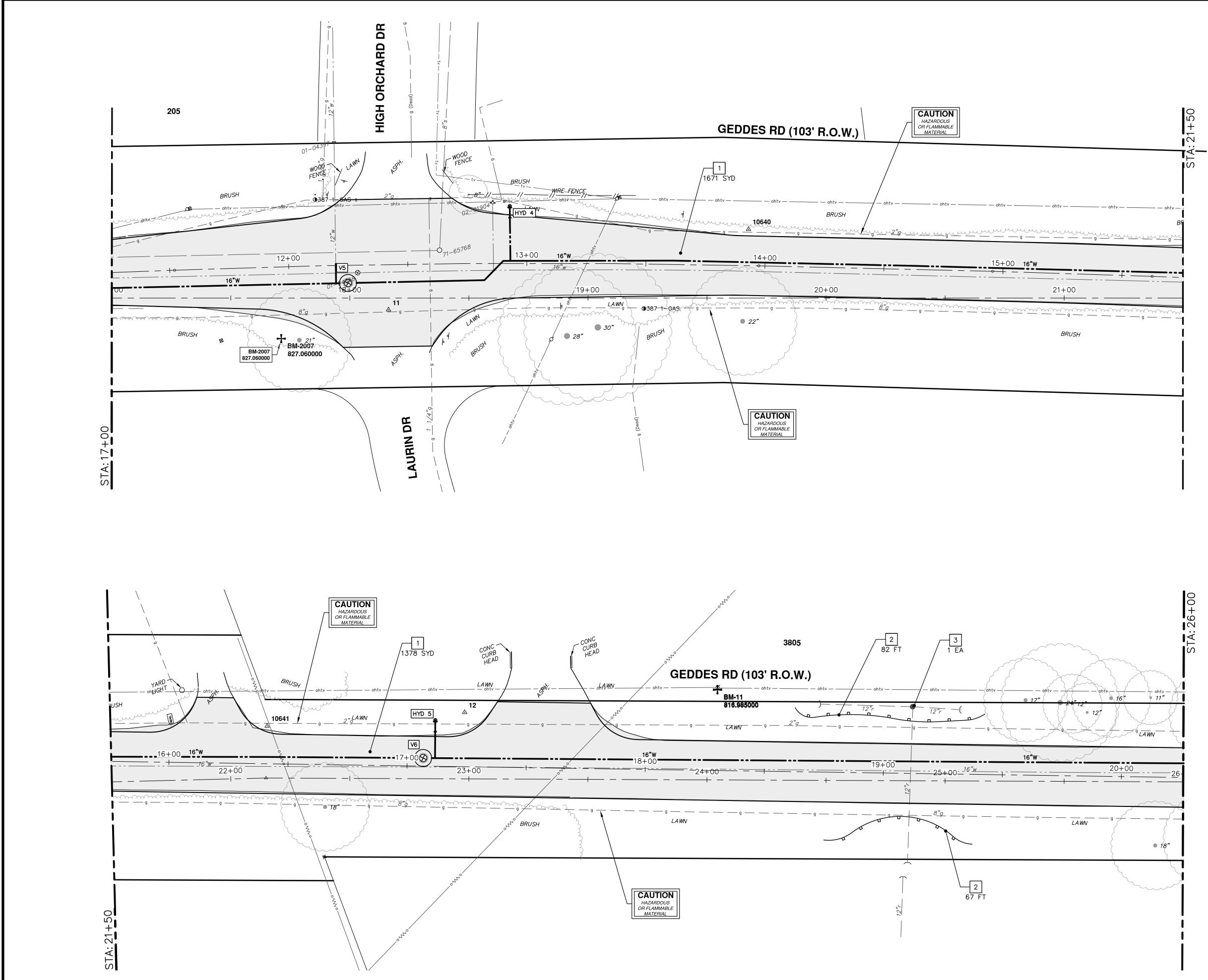




	REMOVAL KEY
KEY	DESCRIPTION
1	PAVT, REM *
2	SILT FENCE
3	INLET FILTER
4	PROTECTIVE FENCING
5	TREE REMOVAL, 8" AND LARGER
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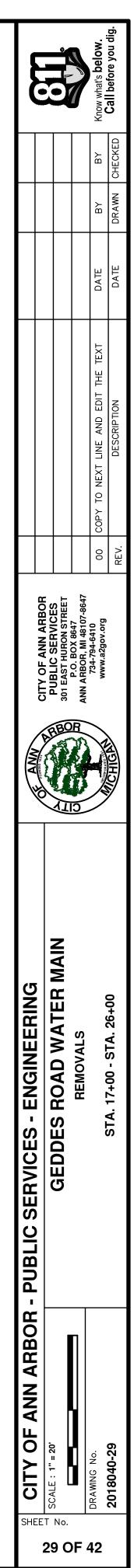
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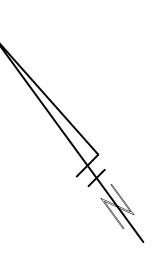
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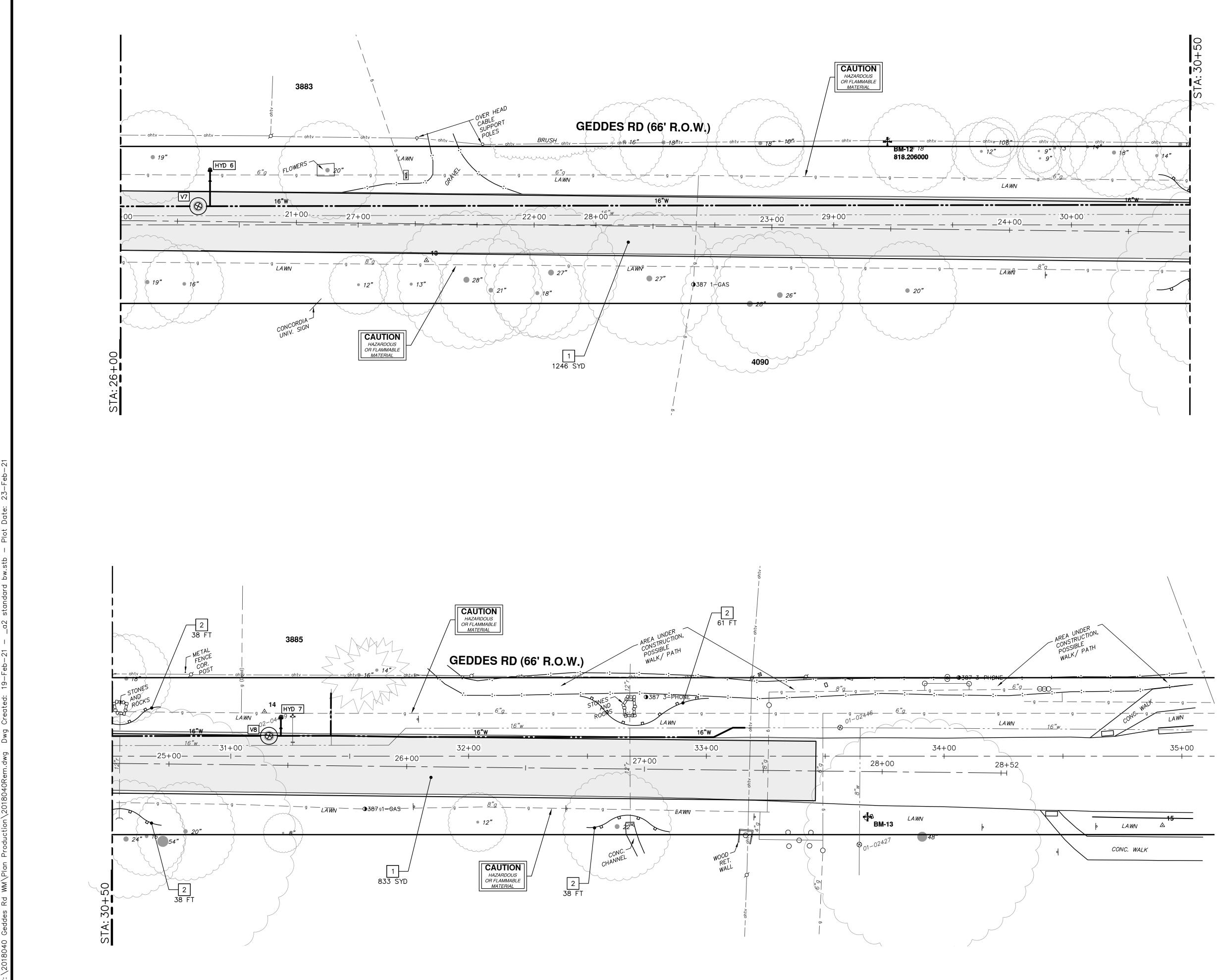


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	REMOVAL KEY				
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1	1 PAVT, REM *				
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3	INLET FILTER				
4	PROTECTIVE FENCING				
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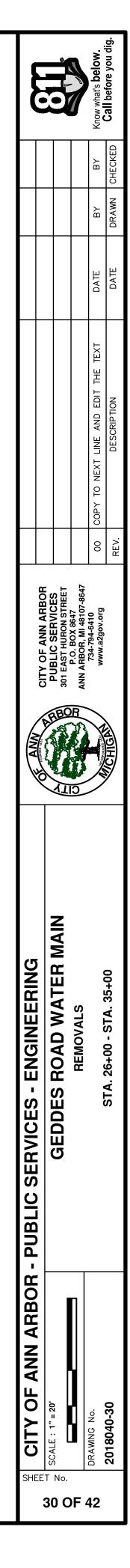


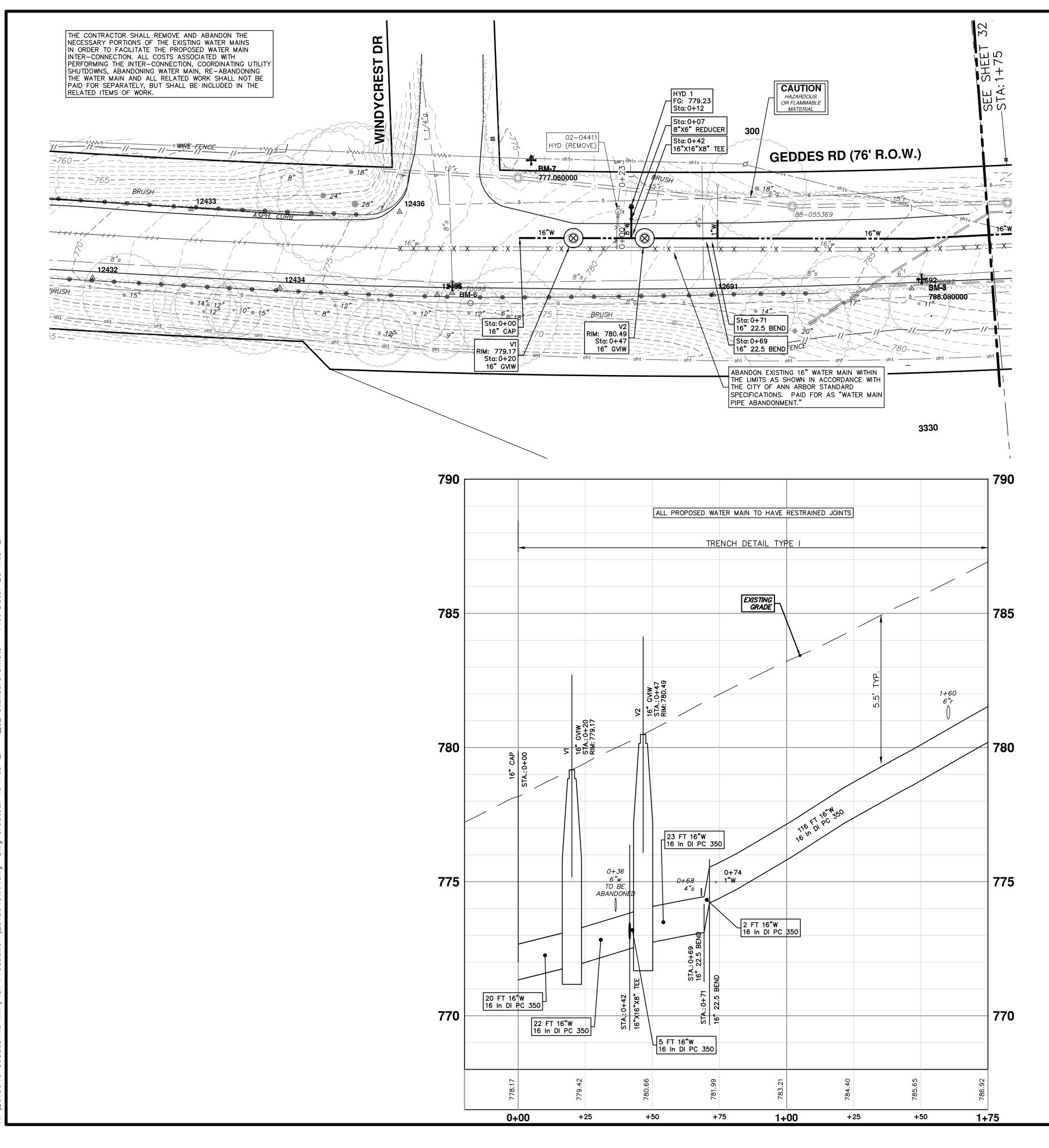




	REMOVAL KEY
KEY	DESCRIPTION
1	PAVT, REM *
2	SILT FENCE
3	INLET FILTER
4	PROTECTIVE FENCING
5	TREE REMOVAL, 8" AND LARGER
6	DR STRUCTURE, REM

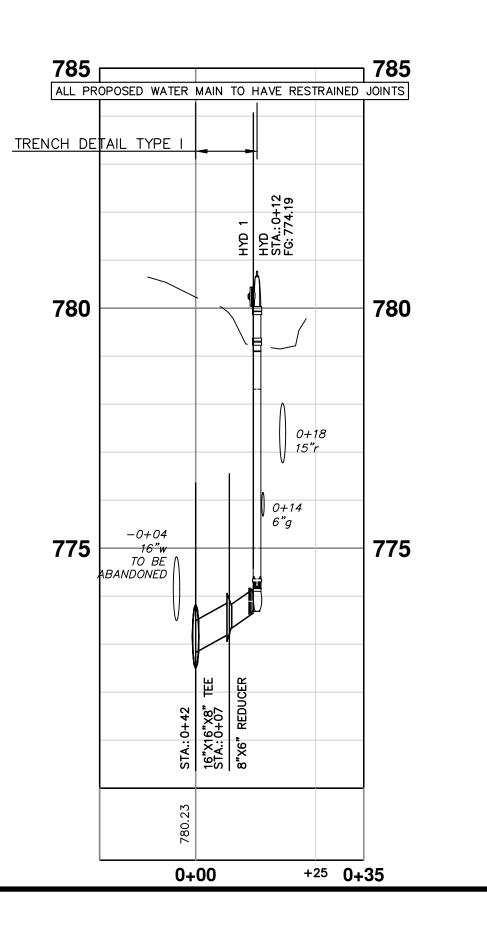
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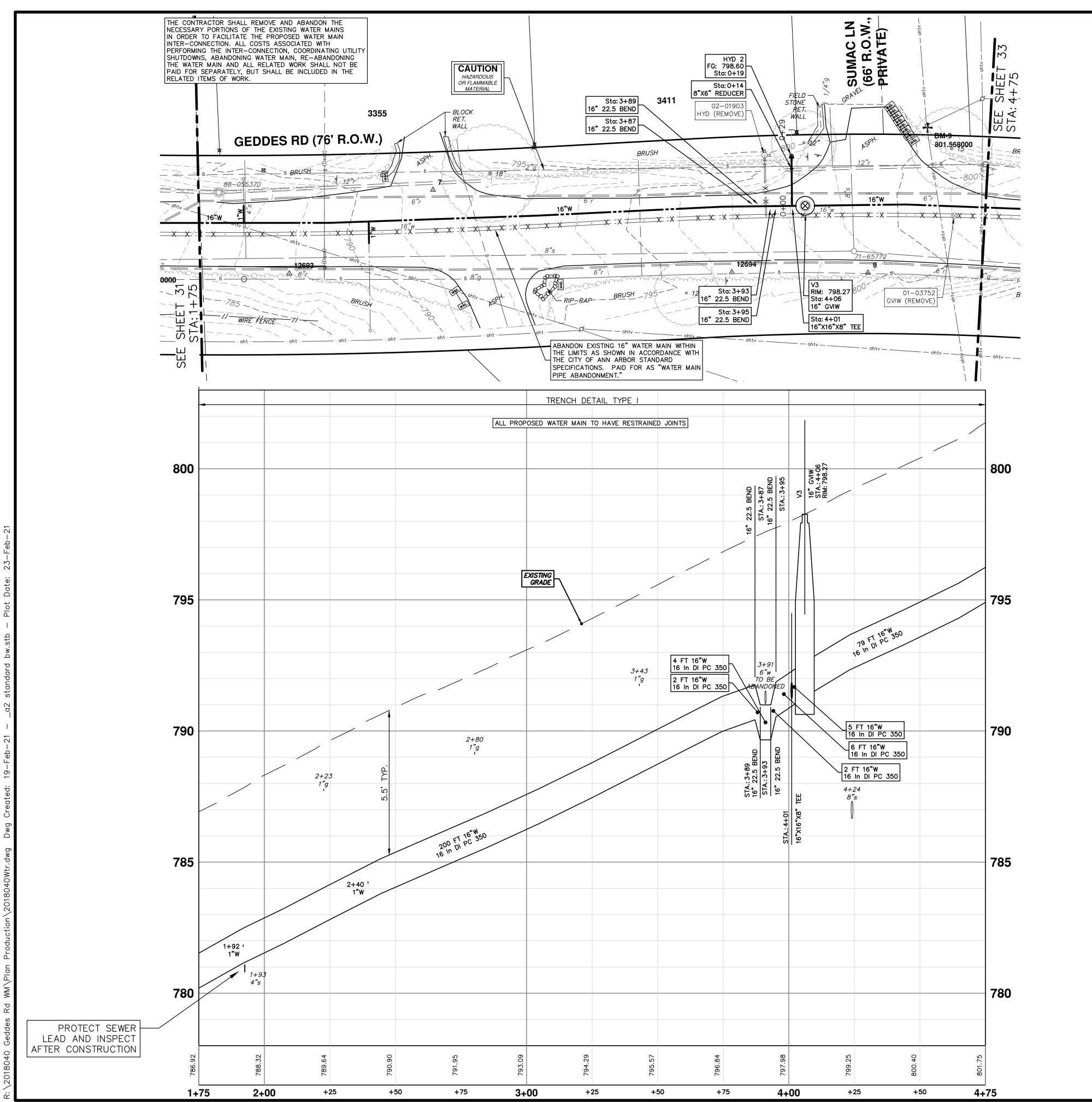


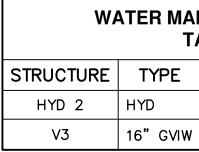
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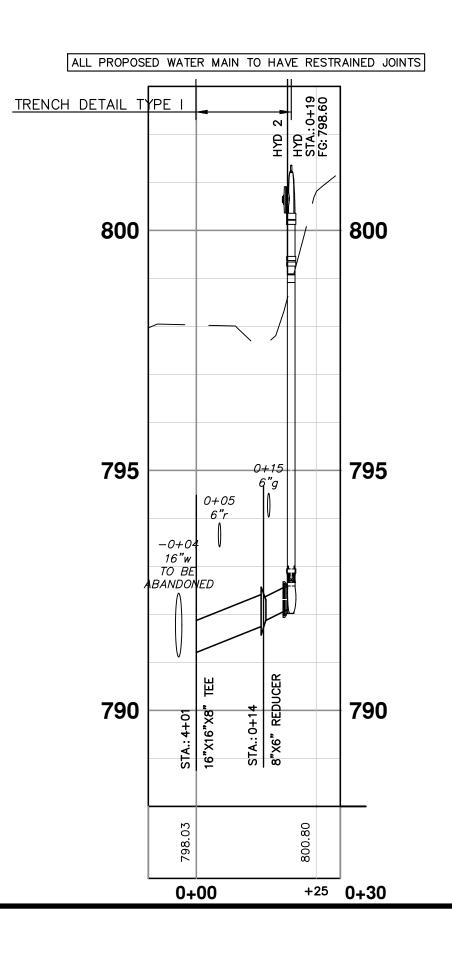
WA		N STRUC ⁻ ABLE	TURE	
STRUCTURE	TYPE	STATION	RIM	DEPTH
HYD 1	HYD	0+12	779.23	5.58
V1	16" GVIW	0+20	779.17	7.33
V2	16" GVIW	0+47	780.49	8.14



CIT	CITY OF ANN ARBOR	ARBOR - PUBLIC SERVICES - ENGINEERING	ANN						8
		GEDDES ROAD WATER MAIN		PUBLIC SERVICES 301 EAST HURON STREET					
		WATER MAIN PLAN & PROFILE	CI ANN ARBO	P.O. BOX 8647 ANN ARBOR, MI 48107-8647					
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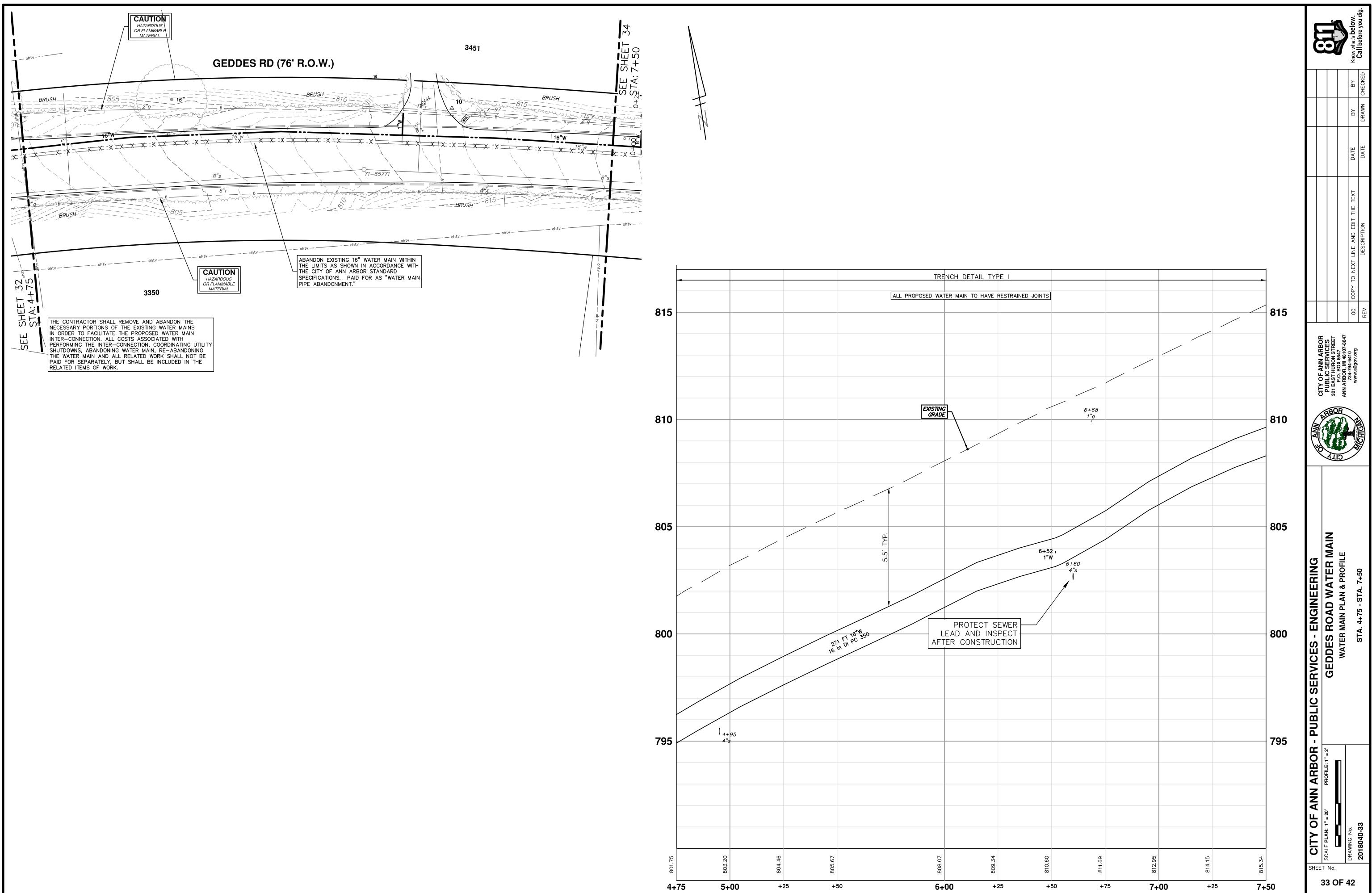


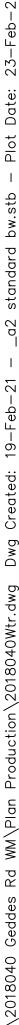


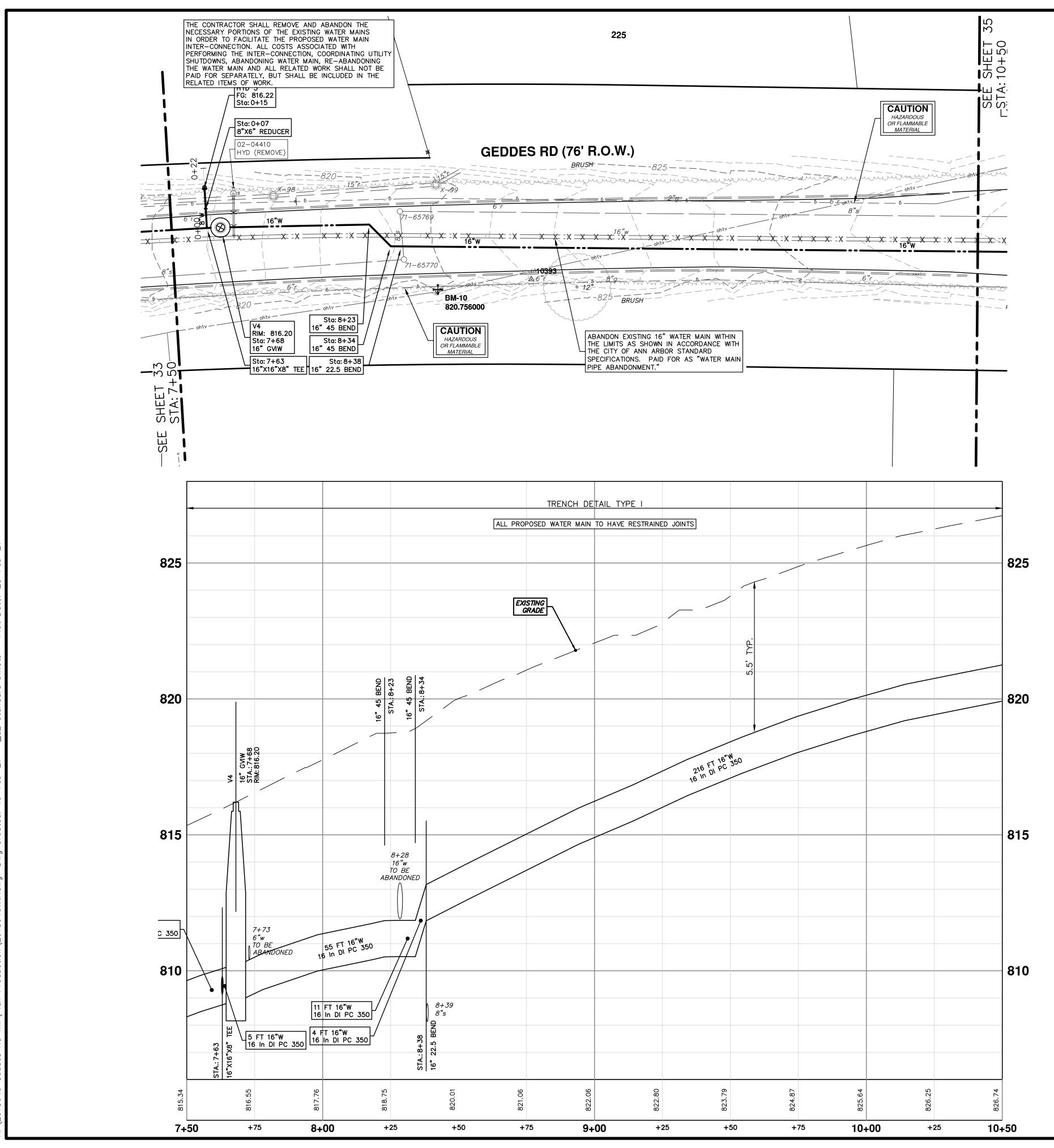
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E CITY OF ANN ARBOR				DRAWING No.	2018040-32
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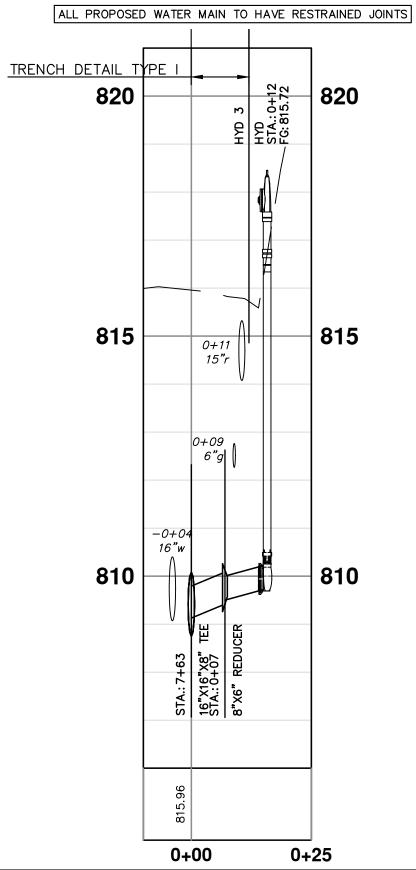
 N STRUC ⁻ ABLE	TURE	
STATION	RIM	DEPTH
0+19	798.60	6.50
4+06	798.27	6.97



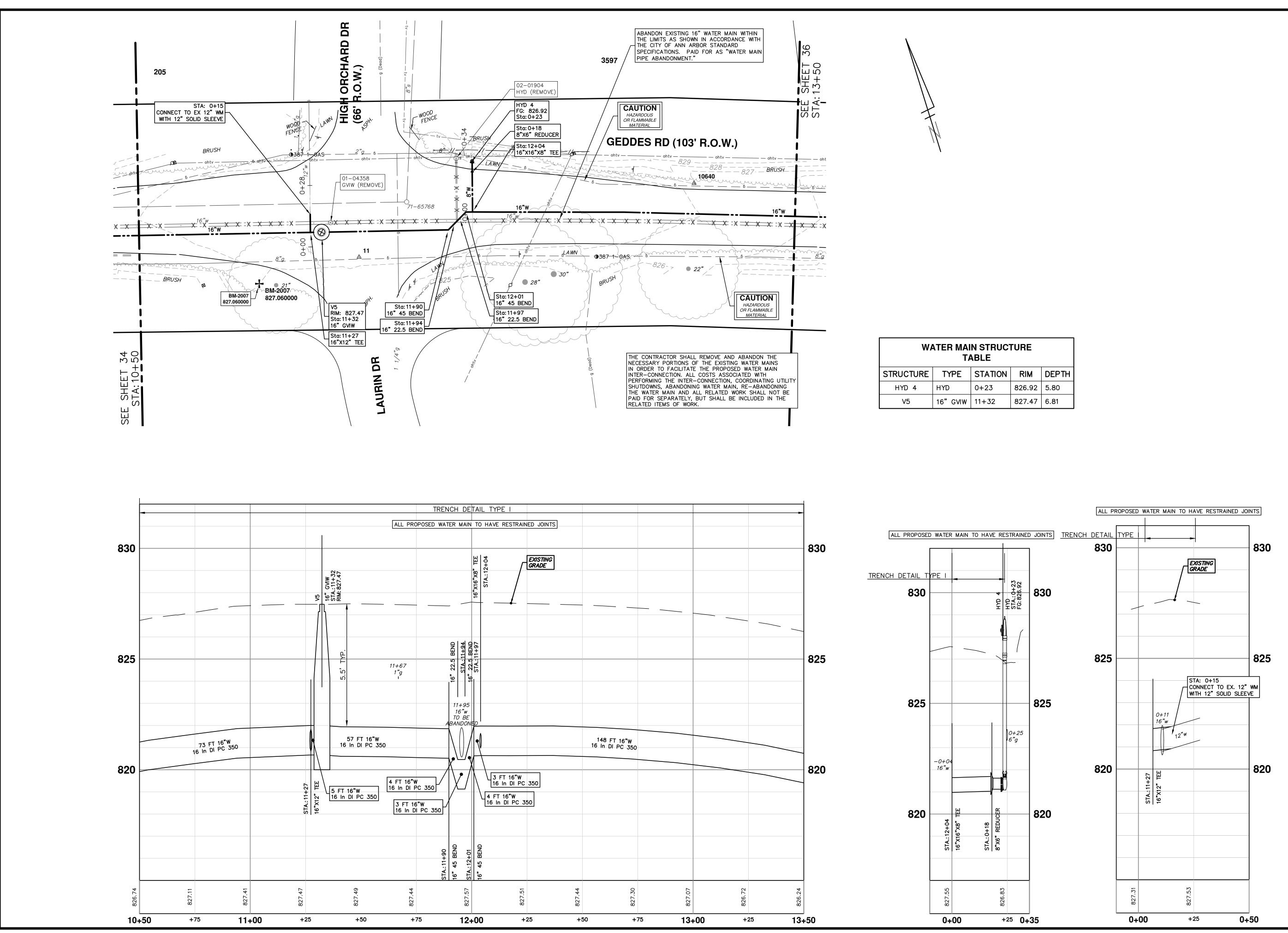




WA		N STRUC ⁻ ABLE	FURE	
STRUCTURE	TYPE	STATION	RIM	DEPTH
HYD 3	HYD	0+15	816.22	6.50
V4	16" GVIW	7+68	816.20	7.38

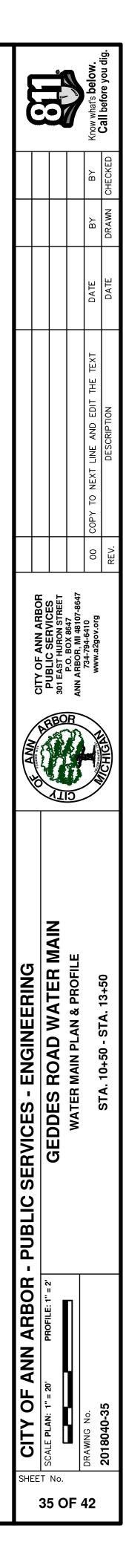


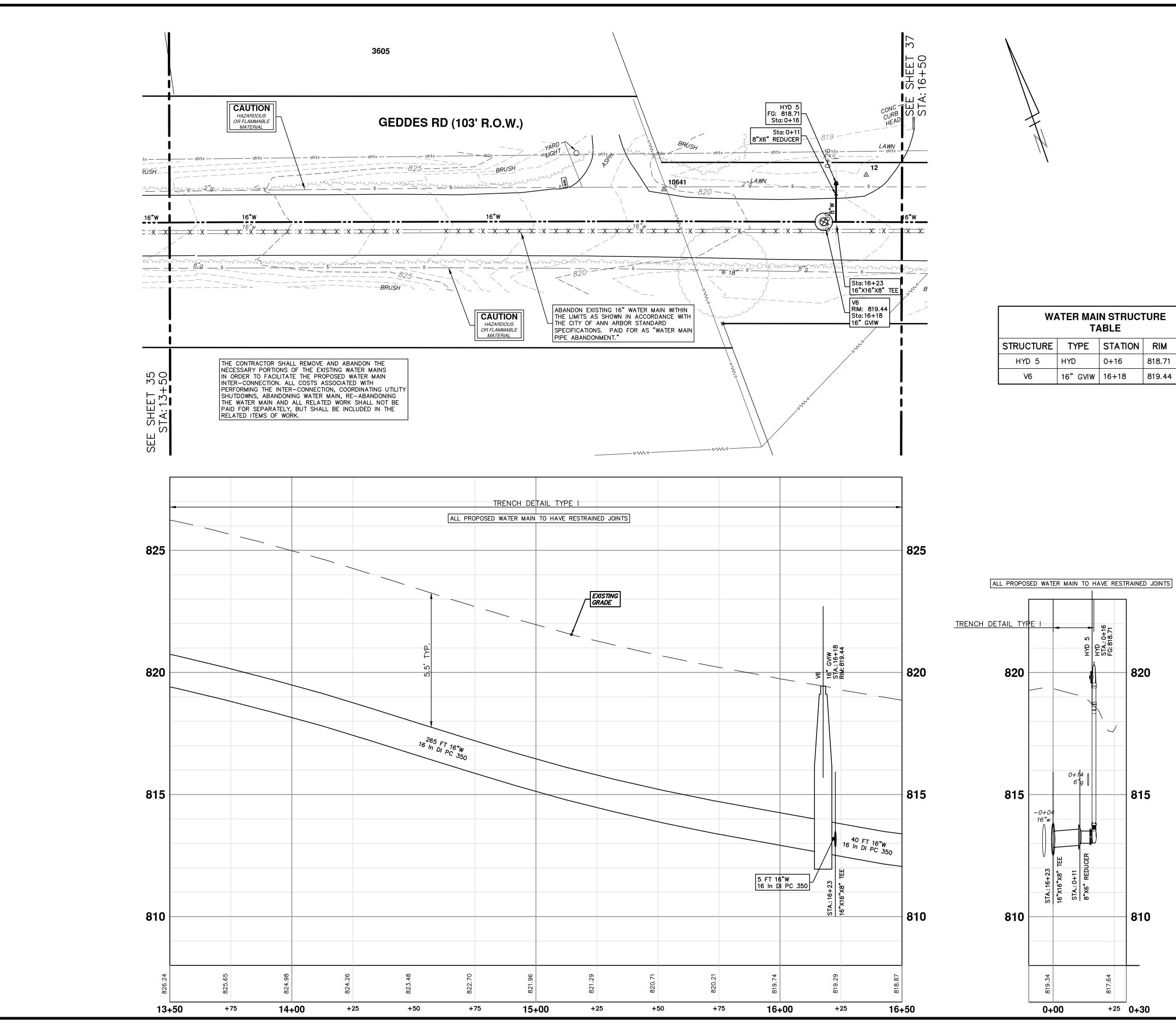
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ANA	OF THE STATE OF ANN ARBOR	PUBLIC SERVICES	D P.O. BOX 8647 ANN ARBOR. MI 48107-8647	734-794-6410 WWW.a2gov.org	MCHIGH STATE
ARBOR - PUBLIC SERVICES - ENGINEERING		GEDDES ROAD WATER MAIN	WATER MAIN PLAN & PROFILE		SIA. 7+50 - SIA. 10+50
Z		SCALE PLAN: 1" = 20' PROFILE: 1" = 2'		G No.	40-34
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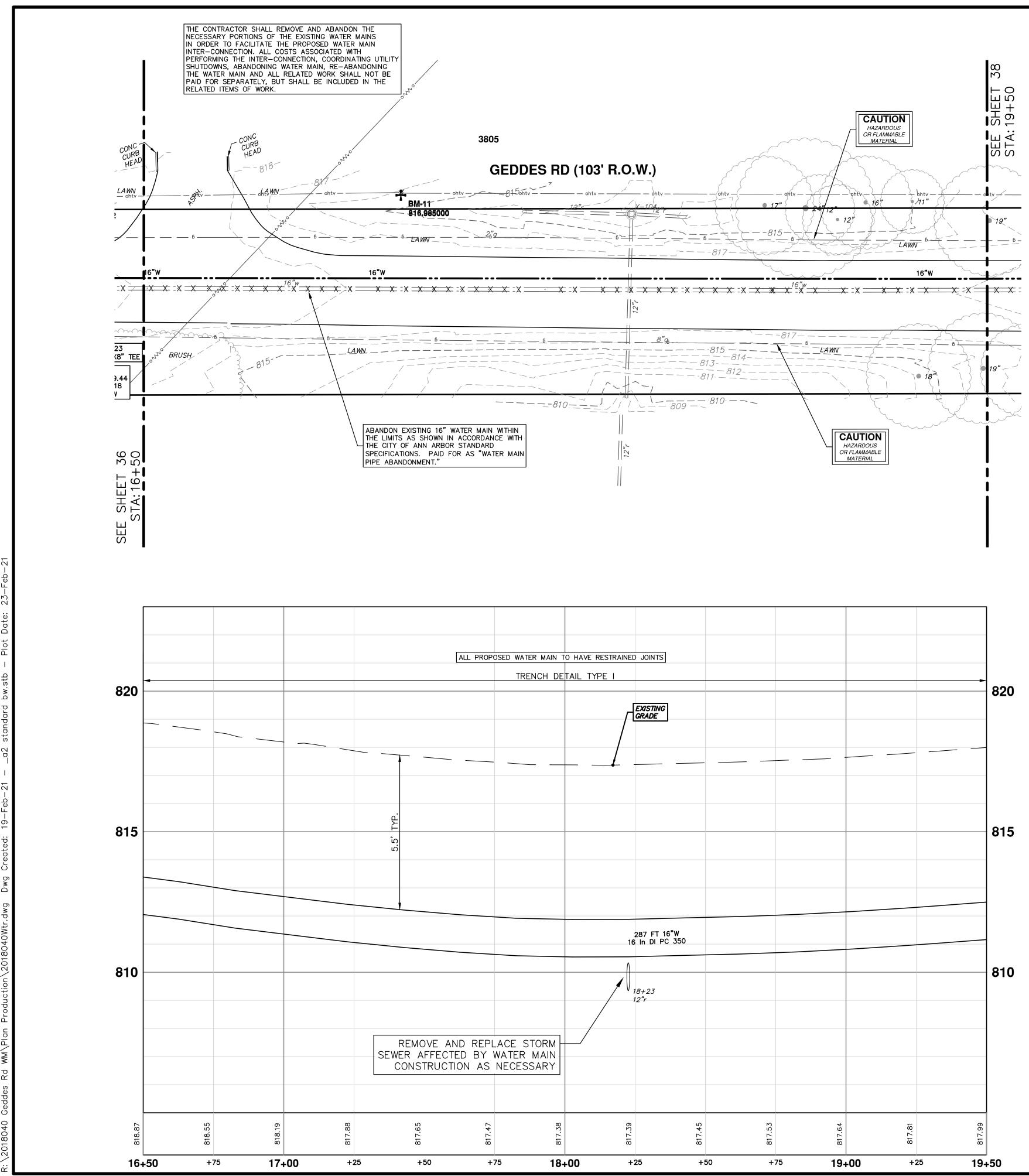
WA		N STRUC ⁻ ABLE	TURE
STRUCTURE	TYPE	STATION	RIM
HYD 4	HYD	0+23	826.92
V5	16" GVIW	11+32	827.47





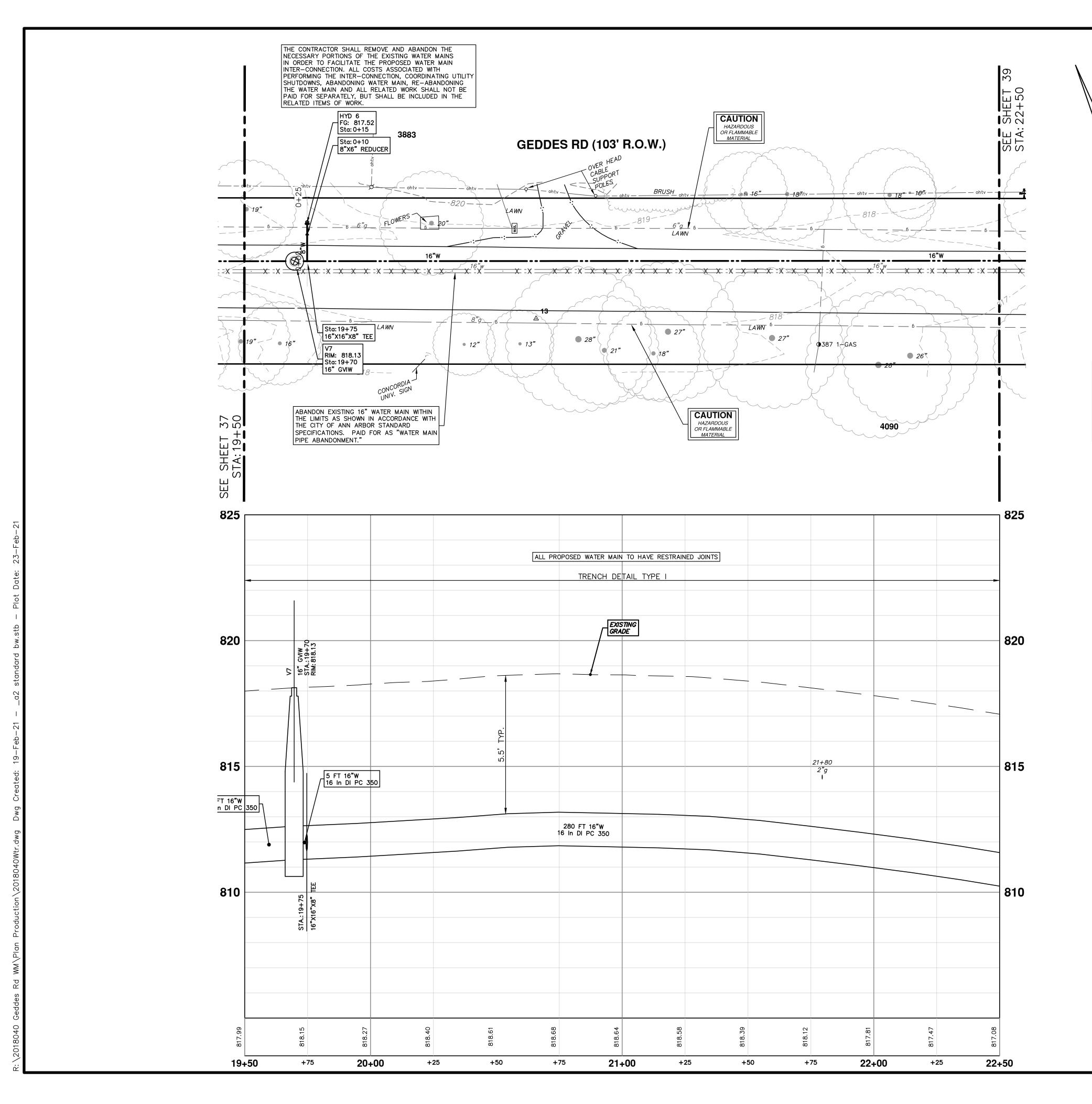
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ANA	CLEAN ARDR	301 EAST HURON STREET	P.O. BOX 8647 ANN ARBOR, MI 48107-8647	734-794-6410 www.a2gov.org	CCHIGK
		<u>XI</u>	CI)	/
PUBLIC SERVICES - ENGINEERING		GEDDES KOAD WALEK MAIN	WATER MAIN PLAN & PROFILE		
CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING	_				2018040-36 SIA. 13+5U - SIA. 16+5U

NC	FURE	
ION	RIM	DEPTH
	818.71	5.70
5	819.44	6.83

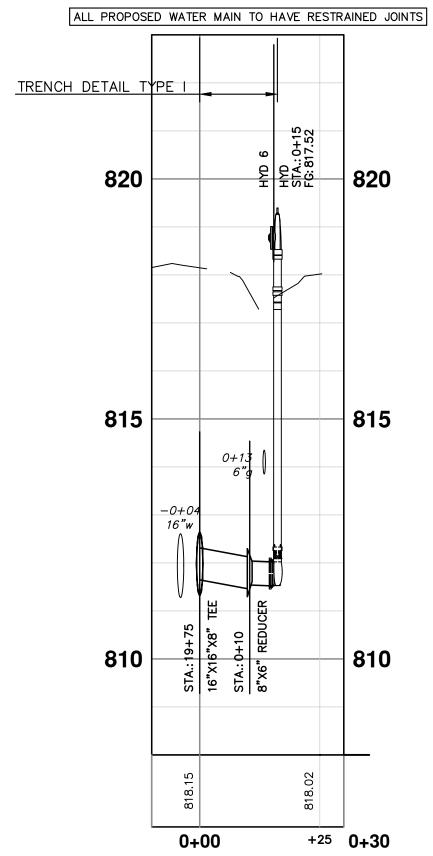


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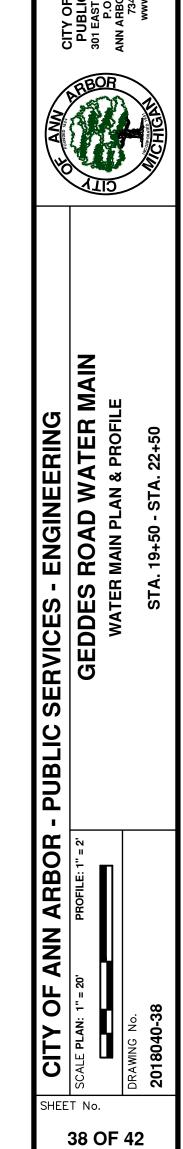
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	SCALE PLAN: 1" = 20' PROFILE: 1" = 2'	GEDDES ROAD WATER MAIN	PUBLIC SERVICES	CES					
)F 4		WATER MAIN PLAN & PROFILE	O 20 20 20 20 20 20 20 20 20 20 20 20 20	07-8647					
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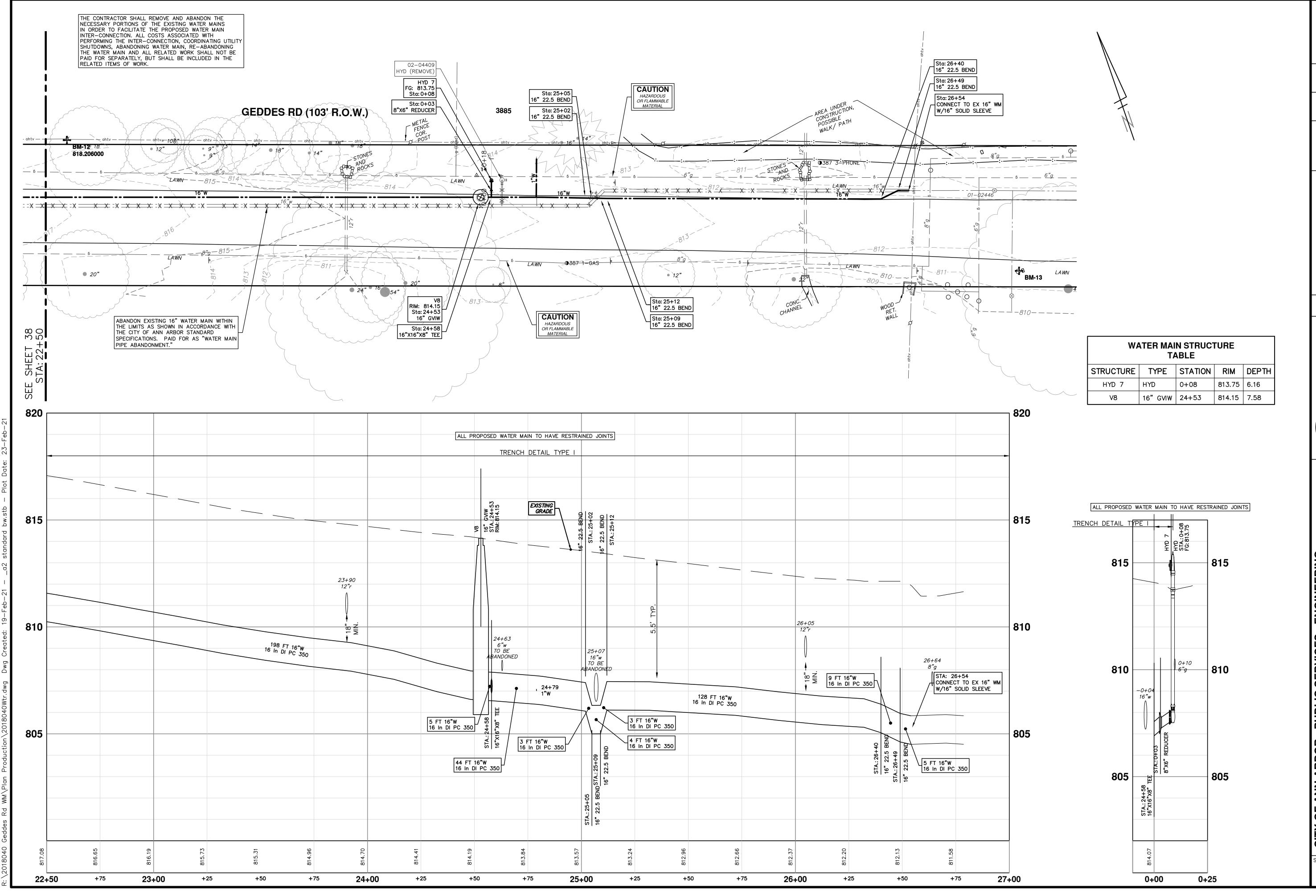


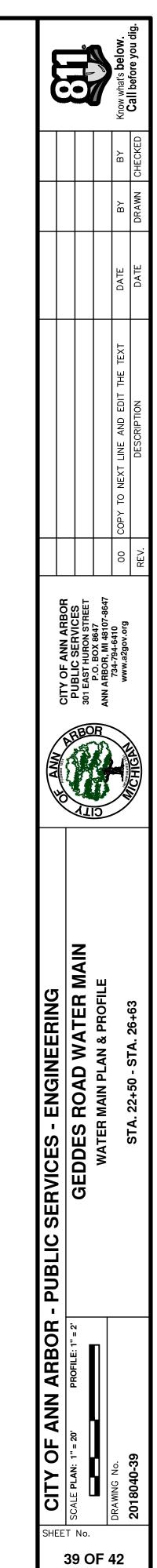
WA		N STRUCT ABLE	FURE	
STRUCTURE	TYPE	STATION	RIM	DEPTH
HYD 6	HYD	0+15	817.52	6.00
٧7	16" GVIW	19+70	818.13	6.83

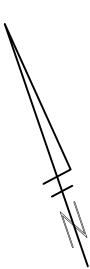


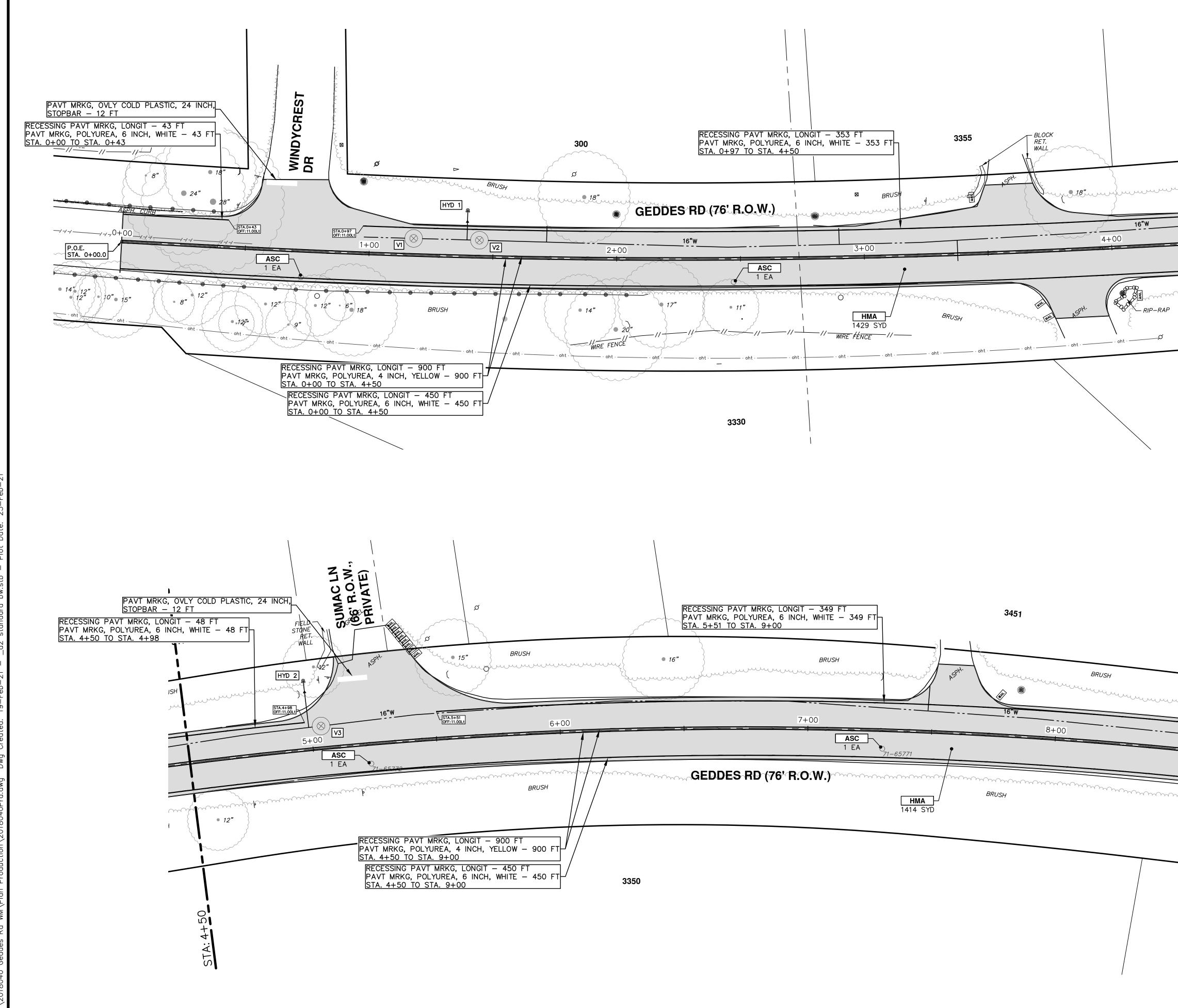
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EET		CITY OF ANN ARBOR						
	GEDDES ROAD WATER MAIN	PUBLIC SERVICES 301 EAST HURON STREET						
	WATER MAIN PLAN & PROFILE	D 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2						
DRAWING No.		734-794-6410 www.a2gov.org	00	00 COPY TO NEXT LINE AND EDIT THE TEXT	DATE	ВY	BΥ	Know what's below
2018040-38	SIA. 19+50 - SIA. 22+50	WICHIGH -	REV.	DESCRIPTION	DATE	DRAWN	DRAWN CHECKED	Call before you dig.



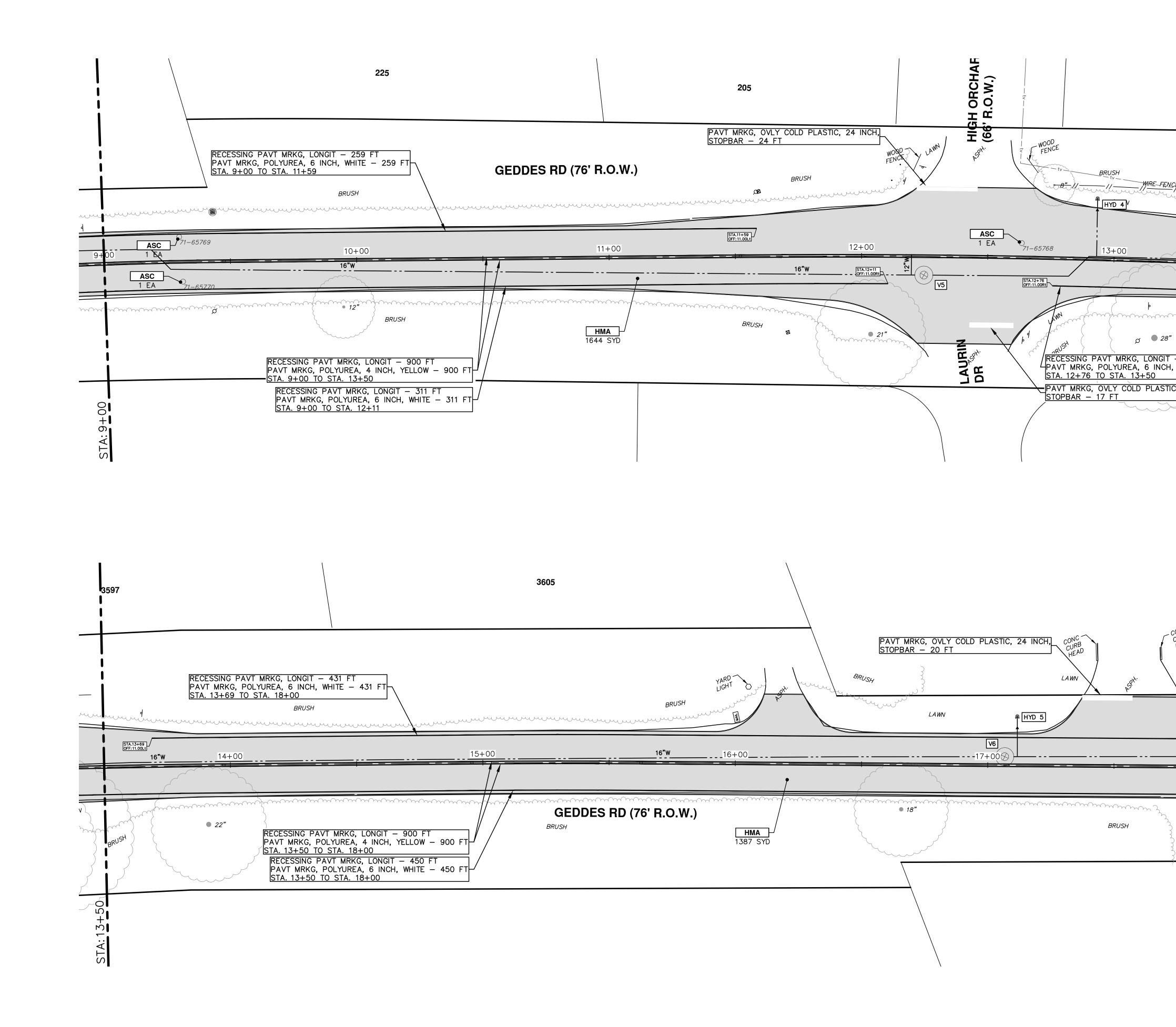






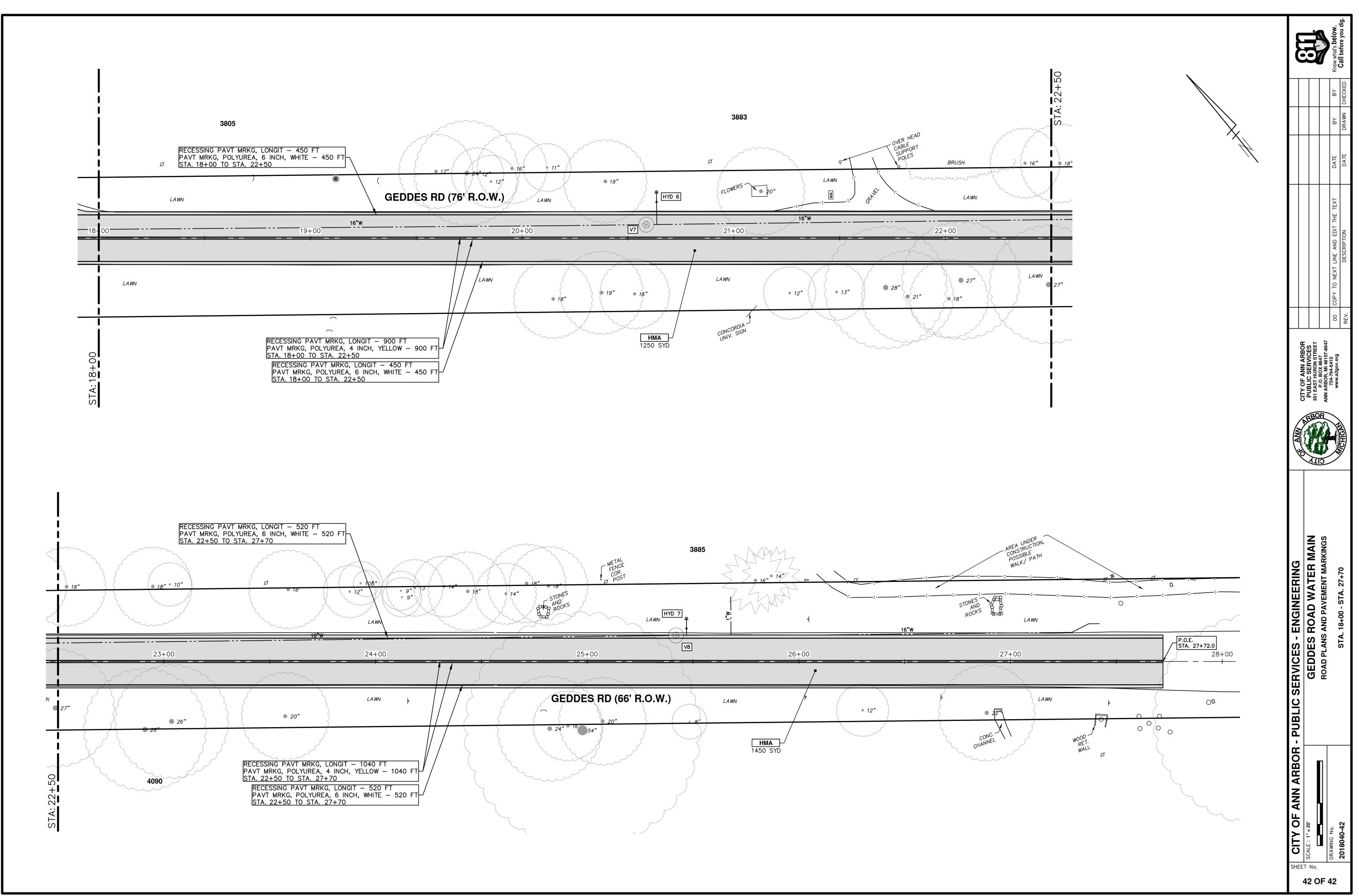


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		CITY OF ANN ARBOR - PU SCALE : 1" = 20" DRAMING NO. 2018040-40 2018040-40



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Ey			DATE
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ONC HEAD LAWV 16"W 18-00		PUBLIC SE	STA. 9+00 - STA. 18+00
		- UN ARBOR SHEET No. 41 OF	75 2018040-41



018040 Geddes Rd WM\Plan Production\2018040Prd.dwg Dwg Created: 19-Feb-21 - _a2 standard bw.stb - Plot Date: 23-Feb-2